

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: P331463-935

Luminaire Tested: **SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331463-935
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-C1005D1080U935-4F0-1E-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

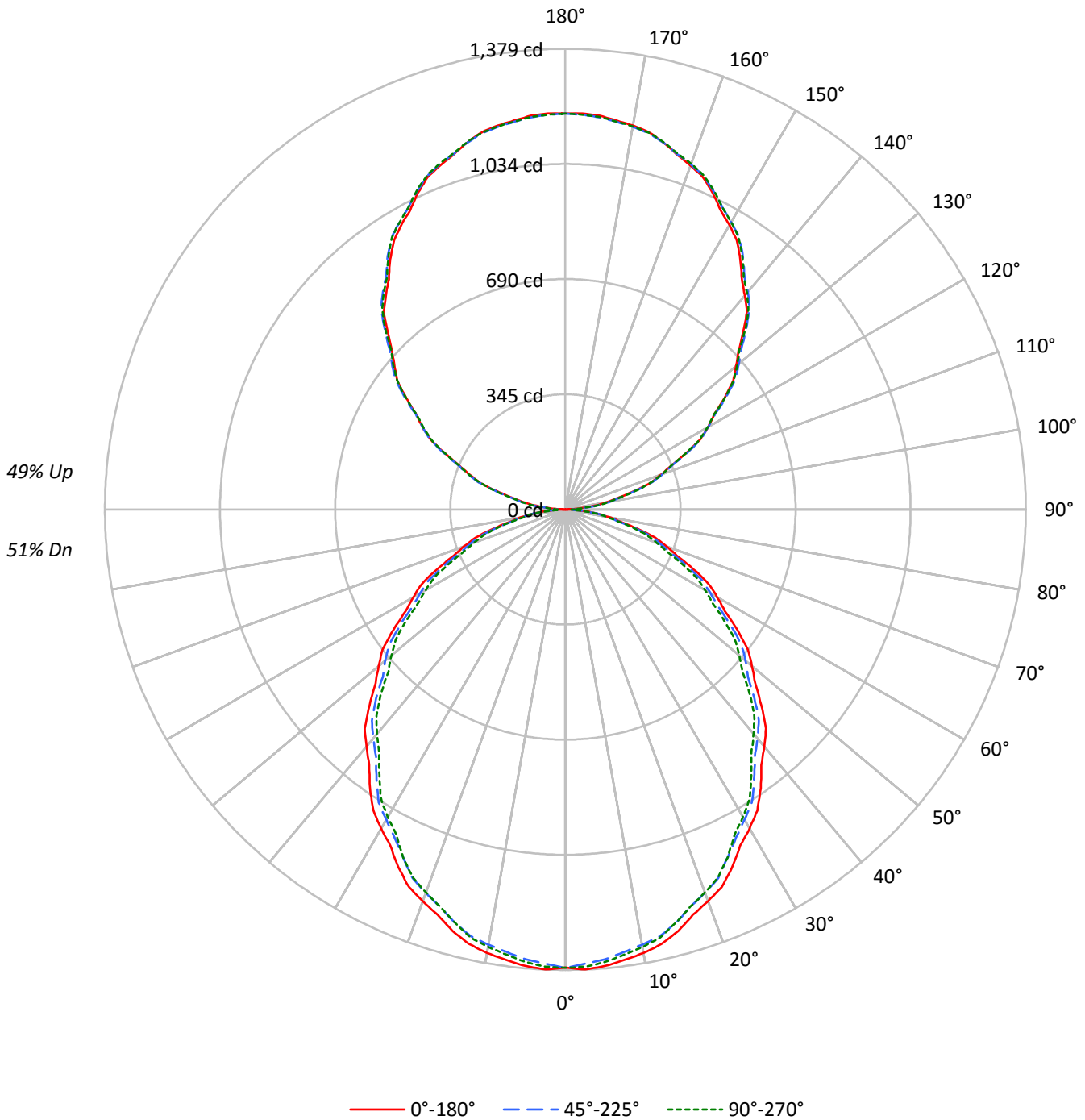
Lumens per Lamp: N/A
Luminaire Lumens: 6809.9 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P331463-935
CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331463-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-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° | 22157 | 22157 | 22157 |
| 5° | 22242 | 21921 | 22049 |
| 10° | 22109 | 21697 | 21807 |
| 15° | 21835 | 21417 | 21396 |
| 20° | 21448 | 20993 | 20972 |
| 25° | 21063 | 20475 | 20475 |
| 30° | 20566 | 19999 | 19827 |
| 35° | 20103 | 19429 | 19141 |
| 40° | 19524 | 18858 | 18493 |
| 45° | 18952 | 18287 | 17838 |
| 50° | 18329 | 17698 | 17071 |
| 55° | 17681 | 17011 | 16380 |
| 60° | 16956 | 16191 | 15594 |
| 65° | 16180 | 15373 | 14670 |
| 70° | 15196 | 14389 | 13704 |
| 75° | 13830 | 13250 | 12926 |
| 80° | 12273 | 11901 | 11288 |
| 85° | 10022 | 9541 | 8540 |



TEST NUMBER: P331463-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.0 | 1.9 |
| 10°-20° | 363.1 | 5.3 |
| 20°-30° | 533.7 | 7.8 |
| 30°-40° | 619.9 | 9.1 |
| 40°-50° | 619.3 | 9.1 |
| 50°-60° | 540.0 | 7.9 |
| 60°-70° | 399.3 | 5.9 |
| 70°-80° | 226.2 | 3.3 |
| 80°-90° | 65.6 | 1.0 |
| 90°-100° | 75.1 | 1.1 |
| 100°-110° | 233.2 | 3.4 |
| 110°-120° | 398.7 | 5.9 |
| 120°-130° | 524.3 | 7.7 |
| 130°-140° | 588.5 | 8.6 |
| 140°-150° | 577.0 | 8.5 |
| 150°-160° | 484.0 | 7.1 |
| 160°-170° | 321.0 | 4.7 |
| 170°-180° | 112.2 | 1.6 |
| 0°-30° | 1025.8 | 15.1 |
| 0°-40° | 1645.7 | 24.2 |
| 0°-60° | 2805.0 | 41.2 |
| 0°-90° | 3496.0 | 51.3 |
| 90°-120° | 707.0 | 10.4 |
| 90°-150° | 2396.8 | 35.2 |
| 90°-180° | 3314.0 | 48.7 |
| 0°-180° | 6809.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1372 | 1372 | 1372 | 1372 | 1372 | |
| 5° | 1372 | 1366 | 1352 | 1362 | 1360 | 130 |
| 15° | 1306 | 1298 | 1281 | 1286 | 1280 | 368 |
| 25° | 1182 | 1171 | 1149 | 1152 | 1149 | 544 |
| 35° | 1020 | 1006 | 986 | 978 | 971 | 637 |
| 45° | 830 | 820 | 801 | 787 | 781 | 640 |
| 55° | 628 | 620 | 604 | 589 | 582 | 561 |
| 65° | 424 | 415 | 402 | 391 | 384 | 419 |
| 75° | 222 | 219 | 212 | 205 | 207 | 237 |
| 85° | 54 | 53 | 52 | 48 | 46 | 62 |
| 90° | 1 | 14 | 35 | 33 | 34 | 5 |
| 95° | 52 | 62 | 64 | 64 | 62 | 60 |
| 105° | 215 | 218 | 220 | 222 | 222 | 227 |
| 115° | 400 | 406 | 404 | 403 | 400 | 396 |
| 125° | 582 | 590 | 588 | 585 | 584 | 520 |
| 135° | 753 | 764 | 766 | 765 | 762 | 582 |
| 145° | 914 | 921 | 927 | 928 | 924 | 571 |
| 155° | 1045 | 1048 | 1051 | 1056 | 1053 | 481 |
| 165° | 1137 | 1136 | 1136 | 1142 | 1138 | 321 |
| 175° | 1183 | 1180 | 1178 | 1184 | 1179 | 112 |
| 180° | 1185 | 1185 | 1185 | 1185 | 1185 | |



TEST NUMBER: P331463-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 |
| 2.5° | 1378.6 | 1377.4 | 1376.3 | 1375.1 | 1373.9 | 1372.1 | 1369.5 | 1366.9 | 1364.3 | 1361.8 | 1364.1 |
| 5° | 1372.3 | 1371.1 | 1369.9 | 1368.7 | 1367.6 | 1365.4 | 1362.2 | 1358.9 | 1355.7 | 1352.5 | 1354.9 |
| 7.5° | 1360.1 | 1358.3 | 1356.5 | 1354.7 | 1352.9 | 1350.3 | 1347.0 | 1343.8 | 1340.5 | 1337.2 | 1339.5 |
| 10° | 1348.5 | 1346.5 | 1344.5 | 1342.4 | 1340.3 | 1337.6 | 1334.0 | 1330.5 | 1327.0 | 1323.4 | 1325.9 |
| 12.5° | 1332.7 | 1330.8 | 1329.0 | 1327.2 | 1325.4 | 1322.8 | 1319.2 | 1315.7 | 1312.3 | 1308.7 | 1310.4 |
| 15° | 1306.3 | 1304.6 | 1302.8 | 1301.1 | 1299.2 | 1296.5 | 1292.7 | 1288.8 | 1285.0 | 1281.3 | 1282.5 |
| 17.5° | 1272.6 | 1270.7 | 1269.0 | 1267.2 | 1265.5 | 1262.7 | 1258.8 | 1254.9 | 1251.0 | 1247.2 | 1248.5 |
| 20° | 1248.3 | 1246.5 | 1244.7 | 1242.9 | 1241.2 | 1238.3 | 1234.2 | 1230.1 | 1226.0 | 1221.8 | 1222.7 |
| 22.5° | 1224.0 | 1221.5 | 1219.1 | 1216.6 | 1214.1 | 1211.0 | 1207.1 | 1203.2 | 1199.4 | 1195.5 | 1195.7 |
| 25° | 1182.3 | 1179.9 | 1177.6 | 1175.3 | 1172.9 | 1169.2 | 1164.2 | 1159.3 | 1154.3 | 1149.3 | 1149.9 |
| 27.5° | 1134.8 | 1132.6 | 1130.6 | 1128.4 | 1126.4 | 1123.3 | 1119.4 | 1115.4 | 1111.6 | 1107.6 | 1106.7 |
| 30° | 1103.1 | 1100.8 | 1098.4 | 1096.1 | 1093.7 | 1090.4 | 1086.0 | 1081.6 | 1077.2 | 1072.7 | 1071.9 |
| 32.5° | 1069.4 | 1067.5 | 1065.6 | 1063.7 | 1061.8 | 1058.6 | 1054.0 | 1049.3 | 1044.7 | 1040.0 | 1038.5 |
| 35° | 1019.9 | 1017.0 | 1014.1 | 1011.2 | 1008.2 | 1004.4 | 999.7 | 995.1 | 990.4 | 985.7 | 984.0 |
| 37.5° | 964.3 | 961.7 | 959.2 | 956.6 | 954.0 | 950.4 | 945.6 | 941.0 | 936.3 | 931.6 | 929.4 |
| 40° | 926.3 | 923.9 | 921.6 | 919.3 | 916.9 | 913.4 | 908.7 | 904.0 | 899.3 | 894.7 | 892.0 |
| 42.5° | 889.3 | 887.0 | 884.7 | 882.4 | 879.9 | 876.4 | 871.8 | 867.0 | 862.4 | 857.6 | 854.8 |
| 45° | 830.0 | 827.9 | 825.9 | 823.8 | 821.7 | 818.6 | 814.2 | 809.8 | 805.4 | 800.9 | 797.7 |
| 47.5° | 770.9 | 769.0 | 767.0 | 765.1 | 763.1 | 759.8 | 755.3 | 750.7 | 746.1 | 741.6 | 738.1 |
| 50° | 729.7 | 728.2 | 726.8 | 725.3 | 723.8 | 721.0 | 717.0 | 712.8 | 708.7 | 704.6 | 700.5 |
| 52.5° | 689.6 | 687.7 | 685.7 | 683.8 | 681.8 | 678.9 | 675.0 | 671.1 | 667.4 | 663.5 | 660.0 |
| 55° | 628.1 | 626.3 | 624.6 | 622.8 | 621.0 | 618.4 | 614.9 | 611.4 | 607.9 | 604.3 | 600.8 |
| 57.5° | 566.4 | 564.9 | 563.5 | 562.1 | 560.7 | 558.1 | 554.2 | 550.4 | 546.5 | 542.6 | 539.2 |
| 60° | 525.1 | 524.0 | 522.8 | 521.7 | 520.5 | 517.8 | 513.8 | 509.6 | 505.5 | 501.4 | 498.2 |
| 62.5° | 485.1 | 483.2 | 481.3 | 479.4 | 477.5 | 475.0 | 471.8 | 468.7 | 465.5 | 462.4 | 459.3 |
| 65° | 423.5 | 421.8 | 420.1 | 418.3 | 416.6 | 414.1 | 411.2 | 408.3 | 405.4 | 402.4 | 399.8 |
| 67.5° | 361.0 | 359.6 | 358.2 | 356.8 | 355.4 | 353.4 | 350.7 | 348.1 | 345.4 | 342.9 | 340.8 |
| 70° | 321.9 | 320.8 | 319.6 | 318.5 | 317.3 | 315.4 | 312.7 | 310.0 | 307.5 | 304.8 | 302.7 |
| 72.5° | 281.8 | 280.7 | 279.5 | 278.4 | 277.2 | 275.7 | 274.1 | 272.3 | 270.6 | 268.9 | 266.8 |
| 75° | 221.7 | 221.1 | 220.5 | 219.9 | 219.3 | 218.3 | 216.8 | 215.3 | 213.9 | 212.4 | 210.7 |
| 77.5° | 167.8 | 166.9 | 165.8 | 164.9 | 163.8 | 163.1 | 162.5 | 161.9 | 161.3 | 160.7 | 159.8 |
| 80° | 132.0 | 131.6 | 131.4 | 131.0 | 130.8 | 130.4 | 129.8 | 129.2 | 128.5 | 128.0 | 127.1 |
| 82.5° | 98.2 | 98.2 | 98.1 | 98.0 | 97.9 | 97.7 | 97.4 | 97.0 | 96.7 | 96.3 | 95.2 |
| 85° | 54.1 | 53.8 | 53.6 | 53.2 | 53.0 | 52.6 | 52.3 | 52.0 | 51.7 | 51.5 | 50.5 |
| 87.5° | 19.2 | 19.3 | 19.4 | 19.4 | 19.5 | 19.7 | 20.2 | 20.8 | 21.3 | 21.8 | 21.0 |
| 90° | 1.0 | 3.7 | 6.4 | 9.0 | 11.7 | 15.4 | 20.3 | 25.2 | 30.1 | 35.0 | 34.5 |
| 92.5° | 17.8 | 19.7 | 21.7 | 23.7 | 25.7 | 27.2 | 28.3 | 29.5 | 30.7 | 31.8 | 31.9 |
| 95° | 52.0 | 54.2 | 56.5 | 58.6 | 60.9 | 62.3 | 62.7 | 63.1 | 63.5 | 64.0 | 64.0 |
| 97.5° | 95.1 | 96.9 | 98.9 | 100.9 | 102.8 | 104.3 | 105.0 | 105.9 | 106.8 | 107.6 | 107.6 |
| 100° | 127.0 | 128.8 | 130.6 | 132.3 | 134.1 | 135.3 | 136.0 | 136.6 | 137.3 | 138.0 | 138.0 |
| 102.5° | 160.7 | 162.0 | 163.5 | 164.9 | 166.3 | 167.5 | 168.3 | 169.1 | 170.0 | 170.8 | 171.0 |
| 105° | 215.0 | 215.7 | 216.4 | 217.1 | 217.7 | 218.3 | 218.7 | 219.1 | 219.6 | 220.0 | 220.5 |
| 107.5° | 269.8 | 270.8 | 271.8 | 272.8 | 273.7 | 274.2 | 274.2 | 274.2 | 274.2 | 274.2 | 274.4 |
| 110° | 305.1 | 306.3 | 307.7 | 309.0 | 310.4 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 | 311.1 |



TEST NUMBER: P331463-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 343.5 | 344.7 | 346.1 | 347.4 | 348.8 | 349.4 | 349.1 | 349.0 | 348.8 | 348.6 | 348.1 |
| 115° | 400.0 | 401.4 | 402.7 | 404.1 | 405.4 | 405.8 | 405.4 | 404.9 | 404.5 | 404.1 | 403.8 |
| 117.5° | 456.4 | 458.2 | 460.0 | 461.8 | 463.6 | 463.8 | 462.6 | 461.3 | 460.1 | 458.8 | 458.3 |
| 120° | 494.0 | 495.8 | 497.7 | 499.4 | 501.2 | 501.2 | 499.4 | 497.7 | 495.8 | 494.0 | 494.0 |
| 122.5° | 528.5 | 530.6 | 532.7 | 534.9 | 537.0 | 537.4 | 536.2 | 534.9 | 533.7 | 532.4 | 531.9 |
| 125° | 582.0 | 584.1 | 586.1 | 588.1 | 590.0 | 590.7 | 590.0 | 589.4 | 588.8 | 588.1 | 587.4 |
| 127.5° | 634.3 | 636.8 | 639.4 | 641.9 | 644.4 | 645.3 | 644.5 | 643.7 | 642.9 | 642.0 | 641.3 |
| 130° | 667.1 | 669.9 | 672.9 | 675.7 | 678.6 | 679.8 | 679.4 | 679.0 | 678.6 | 678.1 | 677.6 |
| 132.5° | 703.9 | 706.3 | 708.6 | 710.9 | 713.3 | 714.5 | 714.6 | 714.7 | 714.8 | 714.9 | 713.9 |
| 135° | 753.1 | 755.5 | 758.0 | 760.4 | 762.8 | 764.3 | 764.7 | 765.2 | 765.7 | 766.1 | 765.9 |
| 137.5° | 804.9 | 806.9 | 808.9 | 810.9 | 812.9 | 814.2 | 814.8 | 815.4 | 815.9 | 816.5 | 816.3 |
| 140° | 836.1 | 838.1 | 840.1 | 842.1 | 844.1 | 845.7 | 846.8 | 847.9 | 849.0 | 850.1 | 850.1 |
| 142.5° | 868.1 | 870.1 | 872.1 | 874.1 | 876.1 | 877.4 | 878.2 | 879.0 | 879.8 | 880.5 | 880.7 |
| 145° | 914.1 | 915.7 | 917.2 | 918.8 | 920.3 | 921.8 | 923.1 | 924.5 | 925.7 | 927.1 | 927.3 |
| 147.5° | 955.1 | 957.0 | 958.8 | 960.7 | 962.6 | 964.0 | 964.8 | 965.8 | 966.6 | 967.5 | 968.0 |
| 150° | 983.1 | 984.5 | 985.8 | 987.1 | 988.4 | 989.5 | 990.5 | 991.4 | 992.2 | 993.2 | 993.8 |
| 152.5° | 1007.9 | 1009.3 | 1010.6 | 1011.9 | 1013.2 | 1014.4 | 1015.5 | 1016.6 | 1017.7 | 1018.7 | 1019.6 |
| 155° | 1045.2 | 1045.8 | 1046.5 | 1047.1 | 1047.8 | 1048.4 | 1049.1 | 1049.8 | 1050.5 | 1051.1 | 1052.2 |
| 157.5° | 1076.9 | 1077.4 | 1077.8 | 1078.2 | 1078.7 | 1079.1 | 1079.5 | 1080.0 | 1080.3 | 1080.7 | 1082.3 |
| 160° | 1096.1 | 1096.6 | 1097.0 | 1097.4 | 1097.9 | 1098.2 | 1098.5 | 1098.7 | 1098.9 | 1099.2 | 1100.4 |
| 162.5° | 1113.7 | 1113.8 | 1113.9 | 1114.0 | 1114.1 | 1114.2 | 1114.5 | 1114.7 | 1114.9 | 1115.2 | 1116.6 |
| 165° | 1137.1 | 1137.0 | 1136.7 | 1136.4 | 1136.3 | 1136.2 | 1136.2 | 1136.2 | 1136.2 | 1136.2 | 1137.7 |
| 167.5° | 1156.8 | 1156.1 | 1155.4 | 1154.8 | 1154.1 | 1153.7 | 1153.7 | 1153.7 | 1153.6 | 1153.6 | 1155.1 |
| 170° | 1167.2 | 1166.5 | 1165.8 | 1165.1 | 1164.5 | 1164.1 | 1163.8 | 1163.6 | 1163.4 | 1163.1 | 1164.7 |
| 172.5° | 1174.3 | 1173.7 | 1173.0 | 1172.3 | 1171.6 | 1171.2 | 1171.0 | 1170.8 | 1170.5 | 1170.4 | 1171.9 |
| 175° | 1183.2 | 1182.5 | 1181.8 | 1181.1 | 1180.5 | 1179.9 | 1179.5 | 1179.1 | 1178.6 | 1178.1 | 1179.7 |
| 177.5° | 1186.7 | 1186.2 | 1185.7 | 1185.2 | 1184.6 | 1184.1 | 1183.8 | 1183.4 | 1183.1 | 1182.8 | 1183.8 |
| 180° | 1185.2 | 1185.2 | 1185.2 | 1185.2 | 1185.2 | 1185.2 | 1185.2 | 1185.2 | 1185.2 | 1185.2 | 1185.2 |



TEST NUMBER: P331463-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 |
| 2.5° | 1366.4 | 1368.7 | 1371.1 | 1372.1 | 1371.6 | 1371.1 | 1370.6 | 1370.2 |
| 5° | 1357.2 | 1359.5 | 1361.8 | 1362.8 | 1362.2 | 1361.6 | 1361.0 | 1360.4 |
| 7.5° | 1341.9 | 1344.2 | 1346.6 | 1347.5 | 1346.8 | 1346.2 | 1345.5 | 1344.9 |
| 10° | 1328.2 | 1330.5 | 1332.8 | 1333.6 | 1332.7 | 1331.8 | 1330.9 | 1330.1 |
| 12.5° | 1312.0 | 1313.6 | 1315.3 | 1315.8 | 1315.1 | 1314.5 | 1313.8 | 1313.2 |
| 15° | 1283.6 | 1284.8 | 1285.9 | 1285.8 | 1284.4 | 1282.9 | 1281.4 | 1280.0 |
| 17.5° | 1249.9 | 1251.3 | 1252.6 | 1252.6 | 1251.1 | 1249.7 | 1248.4 | 1246.9 |
| 20° | 1223.7 | 1224.5 | 1225.4 | 1225.2 | 1224.1 | 1222.9 | 1221.8 | 1220.6 |
| 22.5° | 1195.8 | 1196.0 | 1196.2 | 1195.9 | 1195.2 | 1194.6 | 1193.8 | 1193.1 |
| 25° | 1150.5 | 1151.1 | 1151.7 | 1151.7 | 1151.1 | 1150.5 | 1149.9 | 1149.3 |
| 27.5° | 1105.9 | 1104.9 | 1104.1 | 1102.9 | 1101.6 | 1100.1 | 1098.7 | 1097.3 |
| 30° | 1071.0 | 1070.1 | 1069.3 | 1068.2 | 1067.0 | 1065.8 | 1064.7 | 1063.5 |
| 32.5° | 1036.9 | 1035.3 | 1033.7 | 1032.3 | 1031.1 | 1030.0 | 1028.8 | 1027.6 |
| 35° | 982.1 | 980.4 | 978.6 | 977.1 | 975.6 | 974.1 | 972.6 | 971.1 |
| 37.5° | 927.2 | 925.1 | 922.9 | 921.1 | 919.7 | 918.3 | 916.9 | 915.5 |
| 40° | 889.3 | 886.7 | 884.1 | 882.2 | 881.0 | 879.9 | 878.7 | 877.4 |
| 42.5° | 852.0 | 849.0 | 846.2 | 844.0 | 842.3 | 840.7 | 839.0 | 837.3 |
| 45° | 794.5 | 791.3 | 788.1 | 785.8 | 784.6 | 783.5 | 782.3 | 781.2 |
| 47.5° | 734.8 | 731.3 | 728.0 | 725.4 | 723.7 | 722.0 | 720.3 | 718.6 |
| 50° | 696.4 | 692.3 | 688.2 | 685.4 | 684.0 | 682.5 | 681.1 | 679.6 |
| 52.5° | 656.7 | 653.2 | 649.9 | 647.2 | 645.2 | 643.3 | 641.4 | 639.5 |
| 55° | 597.3 | 593.7 | 590.3 | 587.8 | 586.3 | 584.9 | 583.4 | 581.9 |
| 57.5° | 535.6 | 532.2 | 528.7 | 526.4 | 525.4 | 524.3 | 523.1 | 522.0 |
| 60° | 495.0 | 491.7 | 488.5 | 486.5 | 485.6 | 484.7 | 483.8 | 482.9 |
| 62.5° | 456.4 | 453.4 | 450.4 | 448.3 | 447.2 | 446.1 | 445.0 | 443.8 |
| 65° | 397.2 | 394.5 | 391.9 | 389.9 | 388.4 | 386.9 | 385.5 | 384.0 |
| 67.5° | 338.7 | 336.7 | 334.6 | 332.9 | 331.8 | 330.6 | 329.5 | 328.3 |
| 70° | 300.7 | 298.7 | 296.6 | 295.0 | 293.8 | 292.7 | 291.4 | 290.3 |
| 72.5° | 264.8 | 262.8 | 260.7 | 259.2 | 258.3 | 257.4 | 256.4 | 255.5 |
| 75° | 209.0 | 207.2 | 205.4 | 204.8 | 205.4 | 206.0 | 206.6 | 207.2 |
| 77.5° | 158.9 | 158.1 | 157.2 | 156.4 | 155.5 | 154.7 | 153.9 | 153.1 |
| 80° | 126.2 | 125.4 | 124.5 | 123.7 | 123.1 | 122.6 | 122.0 | 121.4 |
| 82.5° | 94.1 | 93.0 | 91.9 | 91.3 | 91.1 | 91.0 | 90.9 | 90.7 |
| 85° | 49.7 | 48.8 | 48.0 | 47.4 | 47.1 | 46.8 | 46.5 | 46.1 |
| 87.5° | 20.2 | 19.4 | 18.6 | 18.1 | 17.9 | 17.7 | 17.6 | 17.4 |
| 90° | 34.1 | 33.7 | 33.2 | 33.1 | 33.3 | 33.6 | 33.8 | 34.0 |
| 92.5° | 31.9 | 32.0 | 32.2 | 32.2 | 32.3 | 32.3 | 32.4 | 32.4 |
| 95° | 64.0 | 64.0 | 64.0 | 63.8 | 63.4 | 62.9 | 62.4 | 62.0 |
| 97.5° | 107.6 | 107.6 | 107.6 | 107.6 | 107.5 | 107.5 | 107.5 | 107.5 |
| 100° | 138.0 | 138.0 | 138.0 | 137.9 | 137.7 | 137.5 | 137.2 | 137.0 |
| 102.5° | 171.2 | 171.3 | 171.5 | 171.5 | 171.3 | 171.1 | 170.8 | 170.7 |
| 105° | 220.9 | 221.4 | 221.8 | 222.1 | 222.1 | 222.1 | 222.1 | 222.1 |
| 107.5° | 274.6 | 274.7 | 274.9 | 274.5 | 273.5 | 272.5 | 271.5 | 270.4 |
| 110° | 311.1 | 311.1 | 311.1 | 310.7 | 310.0 | 309.4 | 308.7 | 308.1 |



TEST NUMBER: P331463-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 347.6 | 347.1 | 346.6 | 346.0 | 345.5 | 345.0 | 344.6 | 344.1 |
| 115° | 403.6 | 403.4 | 403.1 | 402.7 | 402.1 | 401.4 | 400.7 | 400.0 |
| 117.5° | 457.8 | 457.3 | 456.8 | 456.2 | 455.5 | 454.8 | 454.1 | 453.5 |
| 120° | 494.0 | 494.0 | 494.0 | 493.7 | 493.1 | 492.4 | 491.7 | 491.0 |
| 122.5° | 531.4 | 530.9 | 530.3 | 529.9 | 529.3 | 528.8 | 528.4 | 527.9 |
| 125° | 586.8 | 586.1 | 585.4 | 585.0 | 584.7 | 584.5 | 584.3 | 584.1 |
| 127.5° | 640.5 | 639.6 | 638.9 | 638.1 | 637.4 | 636.7 | 636.0 | 635.2 |
| 130° | 677.2 | 676.7 | 676.3 | 675.6 | 674.8 | 673.8 | 673.0 | 672.1 |
| 132.5° | 712.9 | 712.0 | 711.0 | 710.2 | 709.5 | 708.7 | 708.0 | 707.3 |
| 135° | 765.7 | 765.4 | 765.2 | 764.7 | 764.1 | 763.4 | 762.8 | 762.1 |
| 137.5° | 816.1 | 816.0 | 815.8 | 815.3 | 814.3 | 813.5 | 812.6 | 811.7 |
| 140° | 850.1 | 850.1 | 850.1 | 849.6 | 848.8 | 847.9 | 847.0 | 846.1 |
| 142.5° | 880.9 | 881.1 | 881.2 | 880.9 | 879.9 | 879.1 | 878.2 | 877.3 |
| 145° | 927.6 | 927.8 | 928.0 | 927.6 | 926.8 | 925.9 | 925.0 | 924.1 |
| 147.5° | 968.5 | 969.0 | 969.5 | 969.3 | 968.5 | 967.6 | 966.7 | 966.0 |
| 150° | 994.5 | 995.1 | 995.8 | 995.8 | 995.1 | 994.5 | 993.8 | 993.2 |
| 152.5° | 1020.5 | 1021.2 | 1022.1 | 1022.1 | 1021.2 | 1020.5 | 1019.6 | 1018.7 |
| 155° | 1053.3 | 1054.5 | 1055.6 | 1055.8 | 1055.2 | 1054.5 | 1053.8 | 1053.1 |
| 157.5° | 1083.7 | 1085.3 | 1086.8 | 1087.0 | 1085.9 | 1084.9 | 1083.8 | 1082.7 |
| 160° | 1101.8 | 1103.1 | 1104.5 | 1104.7 | 1103.8 | 1102.9 | 1102.0 | 1101.1 |
| 162.5° | 1118.2 | 1119.6 | 1121.2 | 1121.4 | 1120.3 | 1119.3 | 1118.2 | 1117.1 |
| 165° | 1139.3 | 1140.8 | 1142.4 | 1142.5 | 1141.5 | 1140.4 | 1139.3 | 1138.2 |
| 167.5° | 1156.7 | 1158.2 | 1159.8 | 1159.9 | 1158.8 | 1157.6 | 1156.5 | 1155.4 |
| 170° | 1166.2 | 1167.8 | 1169.3 | 1169.5 | 1168.1 | 1166.8 | 1165.4 | 1164.2 |
| 172.5° | 1173.5 | 1175.0 | 1176.6 | 1176.6 | 1175.4 | 1174.0 | 1172.7 | 1171.3 |
| 175° | 1181.3 | 1182.8 | 1184.4 | 1184.5 | 1183.2 | 1181.8 | 1180.5 | 1179.1 |
| 177.5° | 1184.9 | 1185.9 | 1187.0 | 1187.0 | 1185.9 | 1184.9 | 1183.8 | 1182.8 |
| 180° | 1185.2 | 1185.2 | 1185.2 | 1185.2 | 1185.2 | 1185.2 | 1185.2 | 1185.2 |

(END OF REPORT)