

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: P331464-935

Luminaire Tested: **SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331464-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
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-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

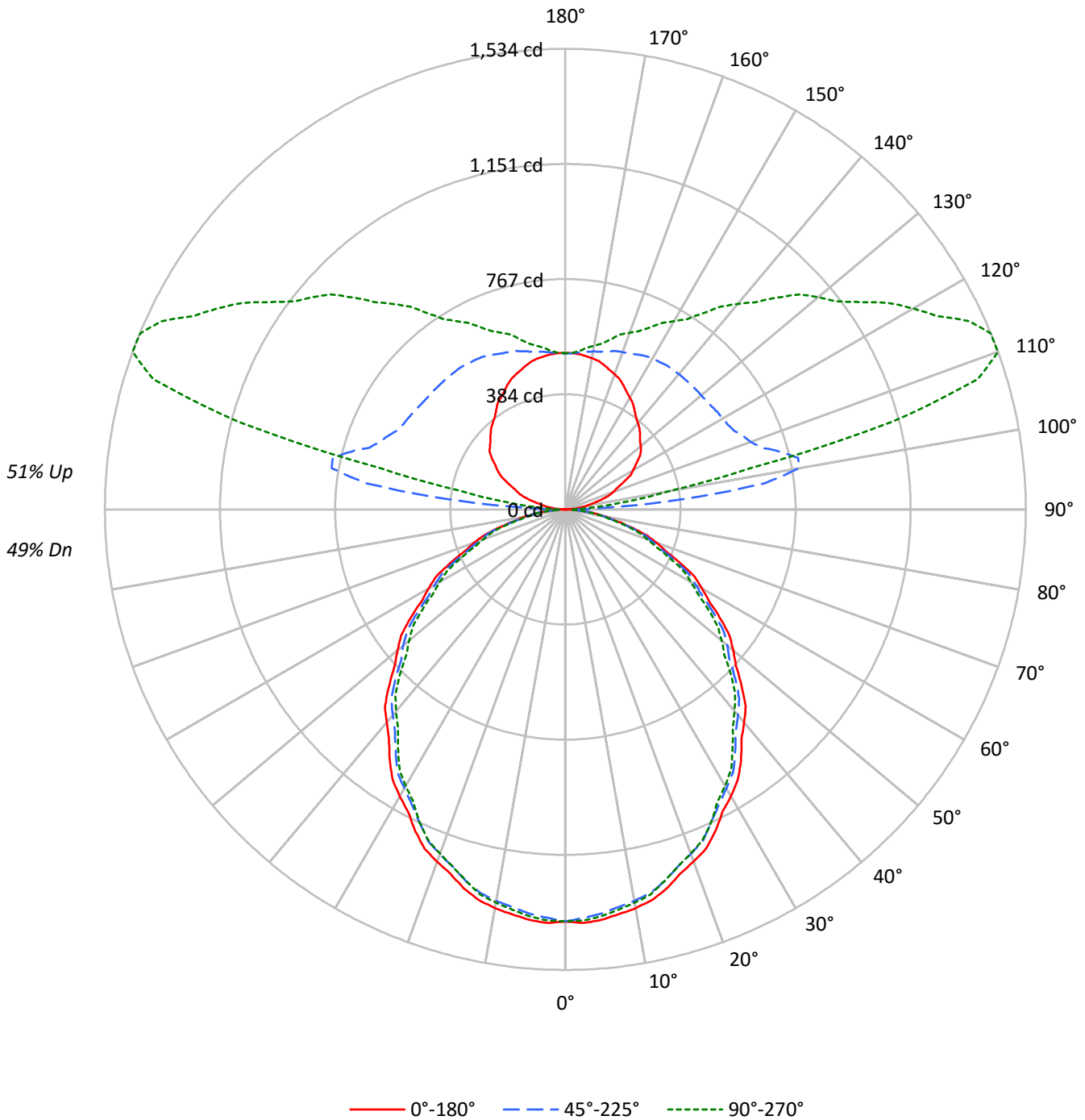
Lumens per Lamp: N/A
Luminaire Lumens: 7115.2 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P331464-935
CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331464-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F4

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 | 83 | 83 | 83 | 69 | 69 | 69 | 55 | 55 | 55 | 49 |
| 1 | 98 | 93 | 89 | 86 | 90 | 86 | 83 | 80 | 73 | 70 | 68 | 60 | 59 | 57 | 49 | 48 | 47 | 41 |
| 2 | 89 | 81 | 75 | 70 | 82 | 75 | 70 | 65 | 64 | 60 | 56 | 53 | 50 | 48 | 43 | 41 | 39 | 35 |
| 3 | 81 | 72 | 64 | 58 | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 47 | 43 | 40 | 38 | 36 | 33 | 29 |
| 4 | 74 | 63 | 55 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 35 | 34 | 31 | 29 | 25 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 31 | 28 | 25 | 22 |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 43 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 20 | 17 |
| 8 | 54 | 41 | 34 | 28 | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 22 | 18 | 16 | 14 |
| 10 | 47 | 35 | 28 | 23 | 43 | 32 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 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: P331464-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.0 | 1.8 |
| 10°-20° | 363.1 | 5.1 |
| 20°-30° | 533.7 | 7.5 |
| 30°-40° | 619.9 | 8.7 |
| 40°-50° | 619.3 | 8.7 |
| 50°-60° | 540.0 | 7.6 |
| 60°-70° | 399.3 | 5.6 |
| 70°-80° | 226.2 | 3.2 |
| 80°-90° | 65.5 | 0.9 |
| 90°-100° | 208.0 | 2.9 |
| 100°-110° | 705.7 | 9.9 |
| 110°-120° | 749.7 | 10.5 |
| 120°-130° | 617.2 | 8.7 |
| 130°-140° | 495.6 | 7.0 |
| 140°-150° | 374.5 | 5.3 |
| 150°-160° | 263.2 | 3.7 |
| 160°-170° | 154.9 | 2.2 |
| 170°-180° | 50.4 | 0.7 |
| 0°-30° | 1025.8 | 14.4 |
| 0°-40° | 1645.7 | 23.1 |
| 0°-60° | 2805.0 | 39.4 |
| 0°-90° | 3496.0 | 49.1 |
| 90°-120° | 1663.4 | 23.4 |
| 90°-150° | 3150.7 | 44.3 |
| 90°-180° | 3619.0 | 50.9 |
| 0°-180° | 7115.2 | 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 | 34 | 32 | 33 | 5 |
| 95° | 35 | 86 | 392 | 148 | 114 | 37 |
| 105° | 122 | 184 | 741 | 1325 | 1127 | 130 |
| 115° | 215 | 272 | 620 | 1280 | 1483 | 213 |
| 125° | 300 | 355 | 596 | 1037 | 1203 | 266 |
| 135° | 352 | 420 | 589 | 871 | 997 | 272 |
| 145° | 402 | 462 | 586 | 728 | 796 | 252 |
| 155° | 457 | 494 | 569 | 644 | 669 | 210 |
| 165° | 498 | 513 | 545 | 578 | 587 | 140 |
| 175° | 519 | 520 | 524 | 531 | 529 | 49 |
| 180° | 520 | 520 | 520 | 520 | 520 | |



TEST NUMBER: P331464-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F4

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 | 19.4 | 19.6 | 19.6 | 19.5 | 19.6 | 20.1 | 21.1 | 21.9 | 21.6 | 20.7 |
| 90° | 1.0 | 4.0 | 8.0 | 10.0 | 12.0 | 15.0 | 20.0 | 27.0 | 33.0 | 34.0 | 33.0 |
| 92.5° | 12.2 | 17.6 | 24.8 | 29.2 | 36.0 | 45.4 | 68.0 | 99.8 | 128.2 | 130.0 | 109.9 |
| 95° | 35.0 | 39.0 | 49.0 | 58.0 | 74.0 | 98.0 | 144.0 | 231.0 | 347.1 | 392.1 | 343.1 |
| 97.5° | 57.0 | 62.4 | 73.0 | 86.6 | 105.0 | 132.2 | 190.0 | 311.3 | 504.1 | 669.3 | 702.1 |
| 100° | 77.0 | 80.0 | 89.0 | 105.0 | 125.0 | 153.0 | 206.0 | 328.0 | 544.1 | 790.1 | 934.2 |
| 102.5° | 95.4 | 97.6 | 106.6 | 122.6 | 143.4 | 171.4 | 220.4 | 328.9 | 528.9 | 794.2 | 1020.6 |
| 105° | 122.0 | 126.1 | 133.0 | 148.0 | 170.0 | 198.0 | 245.0 | 334.1 | 499.1 | 741.1 | 1007.2 |
| 107.5° | 150.8 | 154.0 | 160.8 | 174.6 | 196.5 | 224.6 | 270.3 | 347.8 | 484.3 | 684.3 | 919.4 |
| 110° | 170.0 | 174.0 | 180.0 | 193.0 | 214.0 | 243.1 | 287.1 | 359.0 | 481.1 | 657.1 | 864.2 |



TEST NUMBER: P331464-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 187.6 | 191.7 | 198.5 | 210.6 | 230.8 | 260.6 | 303.1 | 371.1 | 481.9 | 639.6 | 825.8 |
| 115° | 215.1 | 220.1 | 226.0 | 238.1 | 258.0 | 285.1 | 328.0 | 389.1 | 486.1 | 620.1 | 778.2 |
| 117.5° | 243.5 | 247.5 | 253.5 | 264.1 | 283.3 | 311.3 | 351.0 | 408.3 | 493.3 | 610.7 | 748.1 |
| 120° | 261.1 | 265.0 | 271.0 | 280.1 | 300.1 | 328.0 | 367.0 | 421.1 | 498.1 | 605.1 | 732.1 |
| 122.5° | 277.8 | 281.0 | 287.1 | 296.9 | 316.8 | 345.7 | 382.3 | 432.3 | 503.7 | 601.9 | 718.5 |
| 125° | 300.1 | 303.1 | 309.1 | 321.1 | 341.0 | 369.1 | 405.1 | 450.1 | 512.1 | 596.2 | 699.1 |
| 127.5° | 317.6 | 321.7 | 330.1 | 343.3 | 362.5 | 391.2 | 426.3 | 466.7 | 520.7 | 592.7 | 681.1 |
| 130° | 328.0 | 332.1 | 342.1 | 356.1 | 376.1 | 404.1 | 439.1 | 477.1 | 527.1 | 591.1 | 669.2 |
| 132.5° | 337.7 | 342.5 | 353.3 | 368.1 | 388.9 | 416.9 | 450.3 | 487.5 | 533.5 | 590.3 | 659.5 |
| 135° | 352.1 | 356.1 | 368.1 | 383.1 | 406.0 | 434.1 | 466.1 | 501.1 | 541.1 | 589.1 | 646.1 |
| 137.5° | 365.7 | 370.5 | 382.5 | 398.5 | 421.3 | 447.3 | 478.9 | 511.5 | 547.9 | 588.9 | 636.7 |
| 140° | 376.1 | 380.0 | 392.1 | 408.1 | 430.1 | 456.1 | 486.1 | 517.1 | 551.1 | 588.1 | 631.1 |
| 142.5° | 386.5 | 389.7 | 400.9 | 416.9 | 438.1 | 462.5 | 491.7 | 521.9 | 553.5 | 588.1 | 625.5 |
| 145° | 402.1 | 406.0 | 416.1 | 431.1 | 451.1 | 473.1 | 500.1 | 528.1 | 556.1 | 586.1 | 618.1 |
| 147.5° | 418.9 | 421.9 | 431.4 | 445.3 | 461.9 | 481.5 | 506.9 | 531.5 | 556.9 | 582.6 | 610.5 |
| 150° | 430.1 | 433.1 | 441.1 | 454.1 | 469.1 | 487.1 | 510.1 | 533.1 | 556.1 | 580.1 | 604.1 |
| 152.5° | 441.3 | 442.7 | 450.6 | 462.1 | 476.3 | 492.7 | 513.3 | 533.9 | 554.5 | 576.1 | 598.5 |
| 155° | 457.1 | 458.1 | 464.1 | 475.1 | 486.1 | 501.1 | 518.1 | 535.1 | 552.1 | 569.1 | 588.1 |
| 157.5° | 470.3 | 471.3 | 476.1 | 485.7 | 494.5 | 507.1 | 521.5 | 535.1 | 547.5 | 561.9 | 578.3 |
| 160° | 479.1 | 480.1 | 484.1 | 492.1 | 500.1 | 511.1 | 523.1 | 535.1 | 545.1 | 557.2 | 571.1 |
| 162.5° | 487.9 | 487.3 | 491.3 | 497.7 | 504.9 | 513.5 | 523.9 | 534.3 | 542.7 | 553.1 | 564.7 |
| 165° | 498.1 | 497.1 | 499.1 | 505.1 | 510.1 | 516.1 | 525.1 | 532.1 | 538.1 | 545.1 | 554.1 |
| 167.5° | 506.5 | 505.3 | 507.1 | 510.9 | 514.5 | 518.3 | 524.9 | 530.7 | 533.5 | 538.1 | 543.7 |
| 170° | 512.1 | 510.1 | 511.1 | 514.1 | 516.1 | 519.1 | 524.1 | 529.1 | 531.1 | 534.1 | 538.1 |
| 172.5° | 515.3 | 514.1 | 513.5 | 516.5 | 517.7 | 519.9 | 523.3 | 526.7 | 527.9 | 529.3 | 532.5 |
| 175° | 519.1 | 518.1 | 517.1 | 519.1 | 519.1 | 520.1 | 522.1 | 524.1 | 523.1 | 524.1 | 525.1 |
| 177.5° | 520.9 | 519.3 | 518.5 | 520.1 | 520.1 | 520.1 | 520.9 | 522.5 | 520.9 | 520.1 | 520.9 |
| 180° | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 |



TEST NUMBER: P331464-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F4

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° | 19.8 | 18.7 | 18.3 | 18.1 | 17.8 | 17.7 | 17.4 | 17.1 |
| 90° | 32.0 | 30.0 | 32.0 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 |
| 92.5° | 87.2 | 74.8 | 66.4 | 60.2 | 59.4 | 56.2 | 57.0 | 55.4 |
| 95° | 262.1 | 201.0 | 159.0 | 137.0 | 124.0 | 116.1 | 113.0 | 114.0 |
| 97.5° | 611.5 | 500.3 | 392.1 | 319.9 | 272.1 | 247.5 | 232.8 | 224.5 |
| 100° | 913.2 | 789.2 | 652.1 | 531.1 | 448.1 | 405.1 | 376.1 | 358.1 |
| 102.5° | 1110.9 | 1082.8 | 982.6 | 854.4 | 764.1 | 690.8 | 654.5 | 630.2 |
| 105° | 1215.2 | 1328.3 | 1341.3 | 1308.3 | 1246.2 | 1184.2 | 1141.3 | 1127.2 |
| 107.5° | 1140.1 | 1310.3 | 1414.3 | 1462.7 | 1470.5 | 1467.1 | 1458.4 | 1439.9 |
| 110° | 1075.2 | 1254.2 | 1382.2 | 1464.3 | 1507.3 | 1526.3 | 1535.3 | 1534.3 |



TEST NUMBER: P331464-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1016.0 | 1187.8 | 1324.6 | 1418.7 | 1478.5 | 1510.3 | 1527.3 | 1532.7 |
| 115° | 943.2 | 1097.3 | 1228.2 | 1331.3 | 1402.3 | 1448.3 | 1474.3 | 1483.3 |
| 117.5° | 888.4 | 1023.6 | 1142.5 | 1239.1 | 1311.5 | 1360.0 | 1387.5 | 1395.1 |
| 120° | 861.2 | 985.2 | 1091.2 | 1182.2 | 1252.2 | 1299.2 | 1328.3 | 1338.3 |
| 122.5° | 839.6 | 953.2 | 1053.6 | 1135.8 | 1198.6 | 1244.8 | 1270.7 | 1279.0 |
| 125° | 808.1 | 911.2 | 999.2 | 1074.2 | 1132.2 | 1170.3 | 1195.2 | 1203.2 |
| 127.5° | 777.1 | 870.4 | 953.4 | 1022.6 | 1073.2 | 1108.8 | 1130.4 | 1136.9 |
| 130° | 757.2 | 843.2 | 922.2 | 988.2 | 1037.2 | 1071.3 | 1091.2 | 1099.2 |
| 132.5° | 738.0 | 817.6 | 890.2 | 952.2 | 1000.4 | 1034.4 | 1052.8 | 1060.0 |
| 135° | 711.1 | 777.1 | 843.2 | 899.1 | 942.2 | 975.2 | 993.2 | 997.2 |
| 137.5° | 689.7 | 744.9 | 797.4 | 846.2 | 885.4 | 913.8 | 929.6 | 935.6 |
| 140° | 676.1 | 724.2 | 770.2 | 814.2 | 846.2 | 872.2 | 887.2 | 893.2 |
| 142.5° | 665.0 | 705.8 | 745.4 | 782.1 | 812.5 | 836.2 | 849.5 | 850.8 |
| 145° | 649.1 | 682.2 | 713.2 | 742.2 | 766.1 | 783.2 | 793.2 | 796.2 |
| 147.5° | 637.0 | 663.0 | 687.2 | 708.3 | 728.1 | 741.8 | 748.6 | 750.4 |
| 150° | 628.1 | 650.1 | 671.1 | 689.1 | 704.1 | 716.2 | 722.1 | 723.2 |
| 152.5° | 619.3 | 639.7 | 657.5 | 673.1 | 684.9 | 695.3 | 699.7 | 699.9 |
| 155° | 607.1 | 623.1 | 638.1 | 649.1 | 660.1 | 667.1 | 671.1 | 669.2 |
| 157.5° | 592.9 | 606.3 | 618.9 | 627.5 | 635.3 | 641.1 | 642.9 | 642.9 |
| 160° | 584.1 | 595.1 | 606.1 | 613.1 | 620.1 | 625.1 | 626.1 | 626.1 |
| 162.5° | 575.3 | 584.7 | 594.1 | 599.5 | 606.5 | 609.9 | 610.9 | 610.1 |
| 165° | 562.1 | 569.1 | 576.1 | 580.1 | 584.1 | 588.1 | 588.1 | 587.1 |
| 167.5° | 549.5 | 554.9 | 559.7 | 563.4 | 565.1 | 567.3 | 567.1 | 565.9 |
| 170° | 543.1 | 546.1 | 550.1 | 552.1 | 553.1 | 556.1 | 555.1 | 553.1 |
| 172.5° | 535.9 | 538.1 | 541.3 | 542.5 | 543.5 | 544.9 | 543.9 | 542.7 |
| 175° | 528.1 | 529.1 | 530.1 | 531.1 | 531.1 | 532.1 | 531.1 | 529.1 |
| 177.5° | 522.5 | 522.5 | 523.3 | 523.3 | 523.3 | 523.3 | 522.5 | 520.9 |
| 180° | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 |

(END OF REPORT)