

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: P331464-930

Luminaire Tested: **SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331464-930
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-C1005D1080U930-4F0-1E-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

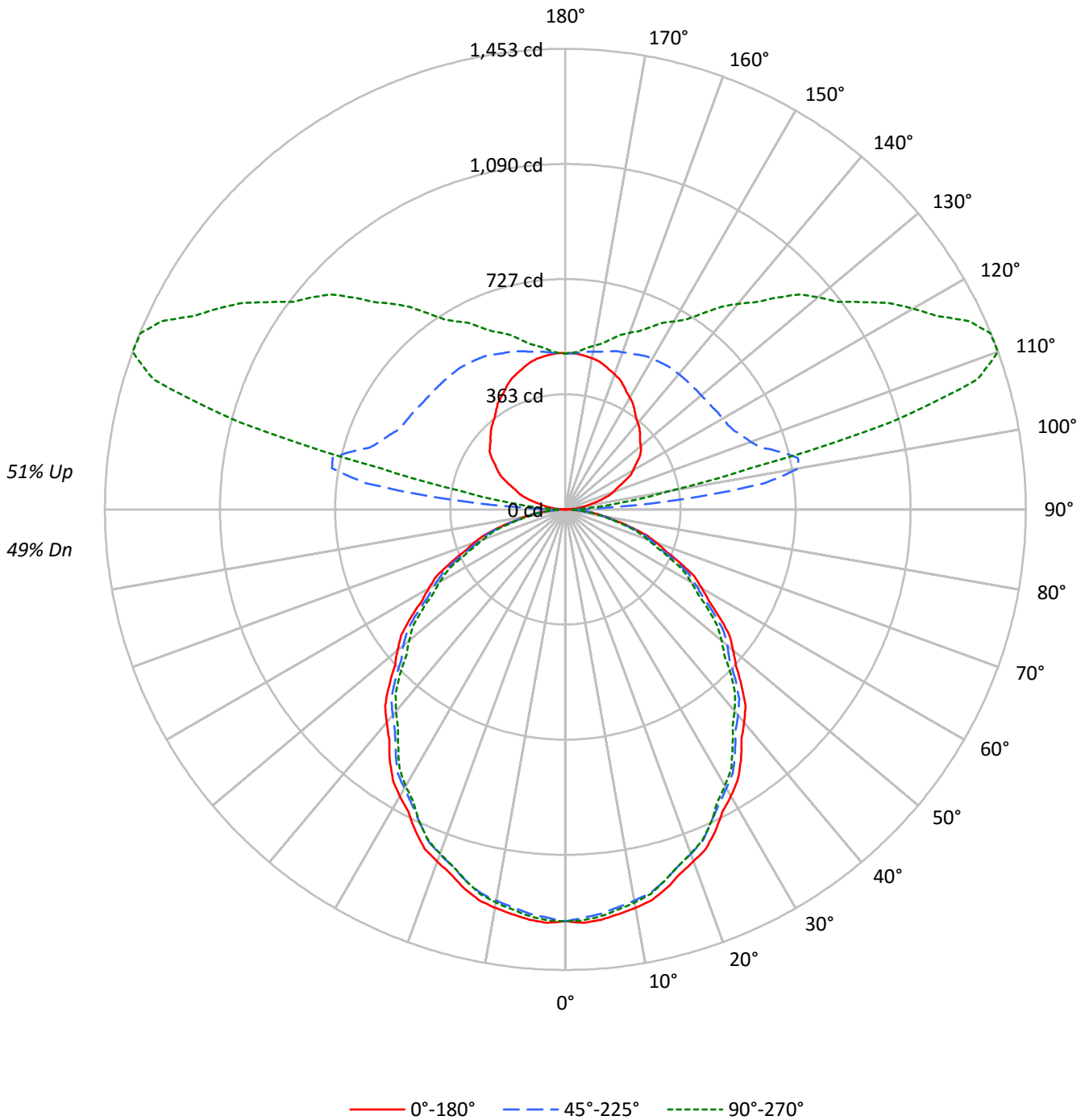
Lumens per Lamp: N/A
Luminaire Lumens: 6737.5 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P331464-930
CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331464-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-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° | 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: P331464-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.2 | 1.8 |
| 10°-20° | 343.8 | 5.1 |
| 20°-30° | 505.4 | 7.5 |
| 30°-40° | 587.0 | 8.7 |
| 40°-50° | 586.4 | 8.7 |
| 50°-60° | 511.4 | 7.6 |
| 60°-70° | 378.1 | 5.6 |
| 70°-80° | 214.2 | 3.2 |
| 80°-90° | 62.0 | 0.9 |
| 90°-100° | 196.9 | 2.9 |
| 100°-110° | 668.2 | 9.9 |
| 110°-120° | 709.9 | 10.5 |
| 120°-130° | 584.4 | 8.7 |
| 130°-140° | 469.3 | 7.0 |
| 140°-150° | 354.6 | 5.3 |
| 150°-160° | 249.2 | 3.7 |
| 160°-170° | 146.7 | 2.2 |
| 170°-180° | 47.8 | 0.7 |
| 0°-30° | 971.4 | 14.4 |
| 0°-40° | 1558.4 | 23.1 |
| 0°-60° | 2656.1 | 39.4 |
| 0°-90° | 3310.4 | 49.1 |
| 90°-120° | 1575.1 | 23.4 |
| 90°-150° | 2983.4 | 44.3 |
| 90°-180° | 3427.0 | 50.9 |
| 0°-180° | 6737.5 | 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 | 32 | 31 | 31 | 4 |
| 95° | 33 | 81 | 371 | 140 | 108 | 35 |
| 105° | 116 | 174 | 702 | 1254 | 1067 | 123 |
| 115° | 204 | 257 | 587 | 1212 | 1405 | 202 |
| 125° | 284 | 336 | 564 | 982 | 1139 | 252 |
| 135° | 333 | 398 | 558 | 825 | 944 | 258 |
| 145° | 381 | 438 | 555 | 689 | 754 | 239 |
| 155° | 433 | 467 | 539 | 609 | 634 | 199 |
| 165° | 472 | 486 | 516 | 547 | 556 | 133 |
| 175° | 492 | 492 | 496 | 502 | 501 | 47 |
| 180° | 492 | 492 | 492 | 492 | 492 | |



TEST NUMBER: P331464-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F4

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 | 18.6 | 18.6 | 18.5 | 18.6 | 19.1 | 20.0 | 20.7 | 20.5 | 19.6 |
| 90° | 1.0 | 3.8 | 7.6 | 9.5 | 11.3 | 14.2 | 18.9 | 25.6 | 31.2 | 32.2 | 31.2 |
| 92.5° | 11.6 | 16.6 | 23.5 | 27.6 | 34.1 | 43.0 | 64.4 | 94.5 | 121.4 | 123.1 | 104.0 |
| 95° | 33.2 | 36.9 | 46.4 | 55.0 | 70.1 | 92.8 | 136.4 | 218.7 | 328.6 | 371.3 | 324.9 |
| 97.5° | 54.0 | 59.1 | 69.1 | 82.0 | 99.5 | 125.2 | 179.9 | 294.7 | 477.4 | 633.8 | 664.9 |
| 100° | 72.9 | 75.7 | 84.3 | 99.5 | 118.4 | 144.9 | 195.1 | 310.6 | 515.2 | 748.2 | 884.6 |
| 102.5° | 90.3 | 92.5 | 100.9 | 116.1 | 135.8 | 162.3 | 208.7 | 311.4 | 500.8 | 752.0 | 966.5 |
| 105° | 115.5 | 119.4 | 126.0 | 140.1 | 161.0 | 187.5 | 232.0 | 316.3 | 472.6 | 701.8 | 953.7 |
| 107.5° | 142.8 | 145.9 | 152.3 | 165.3 | 186.1 | 212.7 | 255.9 | 329.4 | 458.6 | 648.0 | 870.6 |
| 110° | 161.0 | 164.8 | 170.5 | 182.8 | 202.7 | 230.2 | 271.8 | 340.0 | 455.6 | 622.2 | 818.3 |



TEST NUMBER: P331464-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 177.7 | 181.5 | 187.9 | 199.4 | 218.6 | 246.8 | 287.0 | 351.4 | 456.3 | 605.6 | 782.0 |
| 115° | 203.7 | 208.4 | 214.0 | 225.4 | 244.3 | 269.9 | 310.6 | 368.4 | 460.3 | 587.2 | 736.9 |
| 117.5° | 230.6 | 234.3 | 240.0 | 250.1 | 268.2 | 294.7 | 332.4 | 386.6 | 467.1 | 578.3 | 708.4 |
| 120° | 247.2 | 250.9 | 256.7 | 265.2 | 284.1 | 310.6 | 347.6 | 398.8 | 471.7 | 573.0 | 693.2 |
| 122.5° | 263.1 | 266.1 | 271.8 | 281.1 | 300.0 | 327.3 | 362.0 | 409.4 | 477.0 | 570.0 | 680.4 |
| 125° | 284.1 | 287.0 | 292.7 | 304.0 | 322.9 | 349.5 | 383.6 | 426.2 | 484.9 | 564.5 | 662.0 |
| 127.5° | 300.8 | 304.6 | 312.6 | 325.1 | 343.2 | 370.5 | 403.7 | 441.9 | 493.1 | 561.3 | 645.0 |
| 130° | 310.6 | 314.5 | 323.9 | 337.2 | 356.1 | 382.6 | 415.8 | 451.8 | 499.1 | 559.7 | 633.7 |
| 132.5° | 319.8 | 324.3 | 334.5 | 348.5 | 368.3 | 394.8 | 426.4 | 461.6 | 505.2 | 559.0 | 624.5 |
| 135° | 333.4 | 337.2 | 348.5 | 362.7 | 384.5 | 411.1 | 441.3 | 474.5 | 512.4 | 557.8 | 611.8 |
| 137.5° | 346.3 | 350.8 | 362.2 | 377.3 | 398.9 | 423.5 | 453.5 | 484.4 | 518.9 | 557.7 | 602.9 |
| 140° | 356.1 | 359.9 | 371.3 | 386.5 | 407.2 | 431.9 | 460.3 | 489.7 | 521.9 | 556.9 | 597.6 |
| 142.5° | 366.0 | 369.0 | 379.6 | 394.8 | 414.8 | 438.0 | 465.6 | 494.2 | 524.2 | 556.9 | 592.3 |
| 145° | 380.7 | 384.5 | 394.0 | 408.2 | 427.1 | 448.0 | 473.5 | 500.1 | 526.6 | 555.0 | 585.3 |
| 147.5° | 396.6 | 399.5 | 408.5 | 421.7 | 437.4 | 455.9 | 480.0 | 503.3 | 527.3 | 551.6 | 578.1 |
| 150° | 407.2 | 410.1 | 417.7 | 430.0 | 444.2 | 461.2 | 483.1 | 504.8 | 526.6 | 549.3 | 572.0 |
| 152.5° | 417.8 | 419.2 | 426.7 | 437.6 | 451.0 | 466.5 | 486.1 | 505.6 | 525.1 | 545.5 | 566.7 |
| 155° | 432.8 | 433.7 | 439.4 | 449.9 | 460.3 | 474.5 | 490.6 | 506.7 | 522.8 | 538.9 | 556.9 |
| 157.5° | 445.3 | 446.3 | 450.9 | 459.9 | 468.2 | 480.2 | 493.8 | 506.7 | 518.4 | 532.1 | 547.6 |
| 160° | 453.6 | 454.6 | 458.4 | 465.9 | 473.5 | 484.0 | 495.4 | 506.7 | 516.2 | 527.6 | 540.8 |
| 162.5° | 462.0 | 461.5 | 465.2 | 471.2 | 478.1 | 486.2 | 496.1 | 506.0 | 513.9 | 523.7 | 534.8 |
| 165° | 471.7 | 470.8 | 472.6 | 478.3 | 483.1 | 488.7 | 497.3 | 503.9 | 509.6 | 516.2 | 524.7 |
| 167.5° | 479.6 | 478.5 | 480.2 | 483.8 | 487.2 | 490.8 | 497.0 | 502.6 | 505.2 | 509.6 | 514.9 |
| 170° | 484.9 | 483.1 | 484.0 | 486.8 | 488.7 | 491.5 | 496.3 | 501.0 | 502.9 | 505.7 | 509.6 |
| 172.5° | 488.0 | 486.8 | 486.2 | 489.1 | 490.2 | 492.3 | 495.5 | 498.7 | 499.9 | 501.2 | 504.3 |
| 175° | 491.5 | 490.6 | 489.7 | 491.5 | 491.5 | 492.5 | 494.4 | 496.3 | 495.4 | 496.3 | 497.3 |
| 177.5° | 493.3 | 491.7 | 491.0 | 492.5 | 492.5 | 492.5 | 493.3 | 494.8 | 493.3 | 492.5 | 493.3 |
| 180° | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 |



TEST NUMBER: P331464-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F4

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° | 18.8 | 17.7 | 17.4 | 17.1 | 16.9 | 16.7 | 16.5 | 16.2 |
| 90° | 30.3 | 28.5 | 30.3 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 |
| 92.5° | 82.6 | 70.8 | 62.9 | 57.0 | 56.3 | 53.2 | 54.0 | 52.5 |
| 95° | 248.2 | 190.4 | 150.6 | 129.7 | 117.4 | 109.9 | 107.0 | 107.9 |
| 97.5° | 579.0 | 473.8 | 371.3 | 302.9 | 257.6 | 234.3 | 220.5 | 212.5 |
| 100° | 864.7 | 747.3 | 617.5 | 502.9 | 424.3 | 383.6 | 356.1 | 339.1 |
| 102.5° | 1051.9 | 1025.3 | 930.4 | 809.0 | 723.6 | 654.1 | 619.8 | 596.7 |
| 105° | 1150.7 | 1257.8 | 1270.1 | 1238.8 | 1180.1 | 1121.4 | 1080.7 | 1067.4 |
| 107.5° | 1079.5 | 1240.7 | 1339.2 | 1385.0 | 1392.4 | 1389.2 | 1381.0 | 1363.4 |
| 110° | 1018.1 | 1187.6 | 1308.9 | 1386.6 | 1427.3 | 1445.3 | 1453.8 | 1452.9 |



TEST NUMBER: P331464-930

CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 962.1 | 1124.8 | 1254.3 | 1343.4 | 1400.0 | 1430.1 | 1446.3 | 1451.3 |
| 115° | 893.2 | 1039.0 | 1163.0 | 1260.6 | 1327.9 | 1371.4 | 1396.0 | 1404.6 |
| 117.5° | 841.2 | 969.3 | 1081.8 | 1173.3 | 1241.9 | 1287.8 | 1313.9 | 1321.0 |
| 120° | 815.5 | 932.9 | 1033.3 | 1119.5 | 1185.8 | 1230.3 | 1257.8 | 1267.2 |
| 122.5° | 795.0 | 902.6 | 997.7 | 1075.5 | 1135.0 | 1178.8 | 1203.2 | 1211.1 |
| 125° | 765.2 | 862.8 | 946.2 | 1017.2 | 1072.1 | 1108.2 | 1131.8 | 1139.4 |
| 127.5° | 735.9 | 824.2 | 902.8 | 968.3 | 1016.3 | 1049.9 | 1070.4 | 1076.5 |
| 130° | 717.0 | 798.4 | 873.3 | 935.7 | 982.2 | 1014.4 | 1033.3 | 1040.9 |
| 132.5° | 698.8 | 774.2 | 842.9 | 901.6 | 947.3 | 979.5 | 996.9 | 1003.7 |
| 135° | 673.4 | 735.9 | 798.4 | 851.4 | 892.2 | 923.4 | 940.4 | 944.3 |
| 137.5° | 653.1 | 705.4 | 755.0 | 801.3 | 838.4 | 865.3 | 880.3 | 885.9 |
| 140° | 640.3 | 685.7 | 729.3 | 770.9 | 801.3 | 825.9 | 840.1 | 845.8 |
| 142.5° | 629.7 | 668.3 | 705.8 | 740.6 | 769.4 | 791.8 | 804.5 | 805.6 |
| 145° | 614.7 | 646.0 | 675.3 | 702.8 | 725.5 | 741.6 | 751.1 | 753.9 |
| 147.5° | 603.2 | 627.8 | 650.7 | 670.7 | 689.5 | 702.4 | 708.8 | 710.5 |
| 150° | 594.8 | 615.6 | 635.5 | 652.6 | 666.8 | 678.2 | 683.8 | 684.8 |
| 152.5° | 586.4 | 605.8 | 622.6 | 637.4 | 648.6 | 658.4 | 662.6 | 662.8 |
| 155° | 574.9 | 590.0 | 604.2 | 614.7 | 625.1 | 631.7 | 635.5 | 633.7 |
| 157.5° | 561.4 | 574.1 | 586.0 | 594.2 | 601.6 | 607.1 | 608.8 | 608.8 |
| 160° | 553.1 | 563.5 | 574.0 | 580.6 | 587.2 | 591.9 | 592.9 | 592.9 |
| 162.5° | 544.8 | 553.7 | 562.6 | 567.7 | 574.3 | 577.6 | 578.5 | 577.7 |
| 165° | 532.3 | 538.9 | 545.5 | 549.3 | 553.1 | 556.9 | 556.9 | 556.0 |
| 167.5° | 520.3 | 525.5 | 530.0 | 533.5 | 535.1 | 537.2 | 537.0 | 535.9 |
| 170° | 514.3 | 517.1 | 520.9 | 522.8 | 523.7 | 526.6 | 525.6 | 523.7 |
| 172.5° | 507.4 | 509.6 | 512.6 | 513.7 | 514.7 | 516.0 | 515.0 | 513.9 |
| 175° | 500.1 | 501.0 | 502.0 | 502.9 | 502.9 | 503.9 | 502.9 | 501.0 |
| 177.5° | 494.8 | 494.8 | 495.5 | 495.5 | 495.5 | 495.5 | 494.8 | 493.3 |
| 180° | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 | 492.5 |

(END OF REPORT)