

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: P331460-940

Luminaire Tested: **SA2XXDIP-C1005D1080U940-4F0-1E-UDD-D1**

Issue Date: 10/7/2019

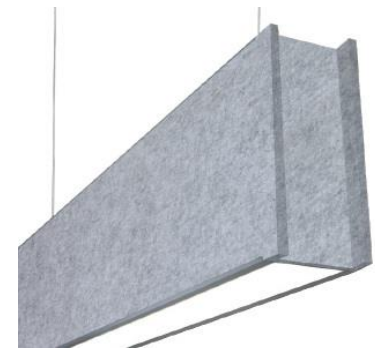
Test Information

Test Method: LM-79-08
Report Number: P331460-940
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-C1005D1080U940-4F0-1E-UDD-D1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, DROP 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: 7034.3 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: General Diffuse

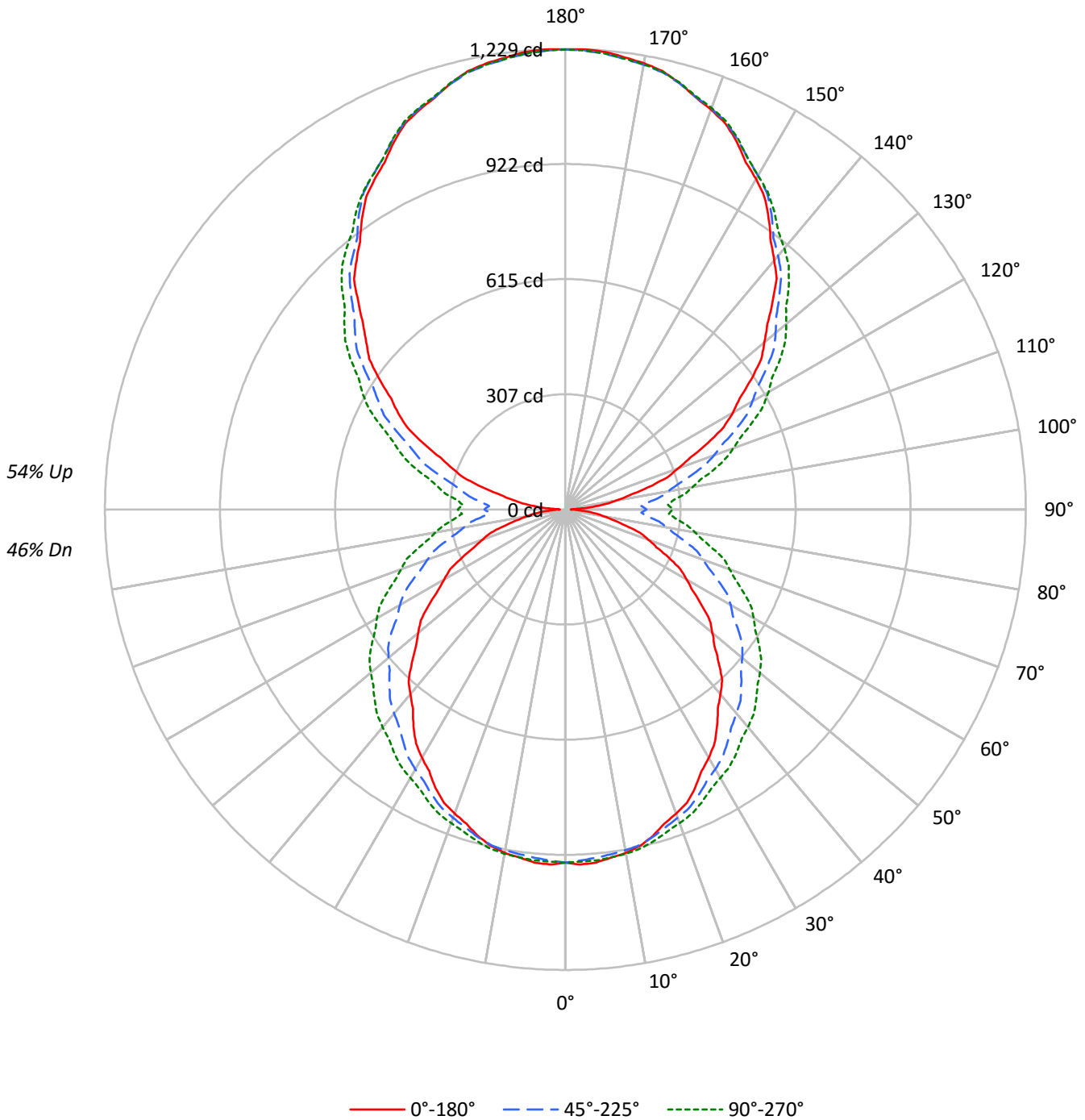
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331460-940

CATALOG NUMBER: SA2XXDIP-C1005D1080U940-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P331460-940

CATALOG NUMBER: SA2XXDIP-C1005D1080U940-4F0-1E-UDD-D1

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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 | 46 |
| 1 | 95 | 91 | 86 | 82 | 87 | 83 | 79 | 76 | 69 | 66 | 63 | 56 | 54 | 52 | 44 | 42 | 41 | 35 |
| 2 | 86 | 78 | 72 | 66 | 79 | 72 | 66 | 61 | 59 | 55 | 51 | 48 | 45 | 42 | 38 | 36 | 34 | 29 |
| 3 | 78 | 68 | 61 | 54 | 71 | 63 | 56 | 50 | 52 | 47 | 43 | 42 | 38 | 35 | 33 | 30 | 28 | 24 |
| 4 | 71 | 60 | 52 | 45 | 65 | 55 | 48 | 42 | 46 | 40 | 36 | 37 | 33 | 30 | 29 | 26 | 24 | 20 |
| 5 | 65 | 53 | 45 | 39 | 60 | 49 | 42 | 36 | 41 | 35 | 31 | 33 | 29 | 25 | 26 | 23 | 20 | 17 |
| 6 | 60 | 48 | 39 | 33 | 55 | 44 | 36 | 31 | 37 | 31 | 27 | 30 | 26 | 22 | 24 | 20 | 18 | 15 |
| 7 | 56 | 43 | 35 | 29 | 51 | 40 | 32 | 27 | 33 | 27 | 23 | 27 | 23 | 19 | 21 | 18 | 16 | 13 |
| 8 | 51 | 39 | 31 | 25 | 47 | 36 | 29 | 24 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 12 |
| 9 | 48 | 35 | 28 | 23 | 44 | 33 | 26 | 21 | 28 | 22 | 18 | 23 | 18 | 15 | 18 | 15 | 13 | 10 |
| 10 | 45 | 32 | 25 | 20 | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 21 | 17 | 14 | 17 | 14 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15224 | 15224 | 15224 |
| 5° | 15300 | 14656 | 14600 |
| 10° | 15203 | 14222 | 14063 |
| 15° | 14994 | 13763 | 13496 |
| 20° | 14728 | 13272 | 12952 |
| 25° | 14466 | 12799 | 12457 |
| 30° | 14098 | 12312 | 11962 |
| 35° | 13725 | 11842 | 11611 |
| 40° | 13332 | 11442 | 11262 |
| 45° | 12960 | 11082 | 10962 |
| 50° | 12561 | 10760 | 10668 |
| 55° | 12143 | 10411 | 10368 |
| 60° | 11628 | 10049 | 10051 |
| 65° | 11095 | 9625 | 9675 |
| 70° | 10498 | 9170 | 9268 |
| 75° | 9730 | 8725 | 8894 |
| 80° | 8523 | 8267 | 8514 |
| 85° | 7361 | 7873 | 8218 |



TEST NUMBER: P331460-940

CATALOG NUMBER: SA2XXDIP-C1005D1080U940-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.3 | 1.3 |
| 10°-20° | 256.2 | 3.6 |
| 20°-30° | 388.3 | 5.5 |
| 30°-40° | 472.9 | 6.7 |
| 40°-50° | 508.8 | 7.2 |
| 50°-60° | 494.1 | 7.0 |
| 60°-70° | 431.4 | 6.1 |
| 70°-80° | 332.1 | 4.7 |
| 80°-90° | 227.8 | 3.2 |
| 90°-100° | 231.3 | 3.3 |
| 100°-110° | 353.7 | 5.0 |
| 110°-120° | 487.0 | 6.9 |
| 120°-130° | 584.3 | 8.3 |
| 130°-140° | 626.8 | 8.9 |
| 140°-150° | 600.6 | 8.5 |
| 150°-160° | 501.2 | 7.1 |
| 160°-170° | 332.4 | 4.7 |
| 170°-180° | 116.2 | 1.7 |
| 0°-30° | 733.8 | 10.4 |
| 0°-40° | 1206.7 | 17.2 |
| 0°-60° | 2209.5 | 31.4 |
| 0°-90° | 3200.8 | 45.5 |
| 90°-120° | 1072.0 | 15.2 |
| 90°-150° | 2883.7 | 41.0 |
| 90°-180° | 3834.0 | 54.5 |
| 0°-180° | 7034.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 943 | 943 | 943 | 943 | 943 | |
| 5° | 946 | 941 | 933 | 941 | 940 | 90 |
| 15° | 902 | 904 | 905 | 916 | 916 | 254 |
| 25° | 820 | 830 | 842 | 858 | 862 | 377 |
| 35° | 706 | 730 | 756 | 785 | 795 | 441 |
| 45° | 579 | 617 | 664 | 705 | 720 | 447 |
| 55° | 444 | 495 | 564 | 612 | 631 | 397 |
| 65° | 303 | 371 | 451 | 505 | 525 | 301 |
| 75° | 168 | 245 | 332 | 389 | 409 | 178 |
| 85° | 49 | 134 | 221 | 277 | 298 | 53 |
| 90° | 15 | 107 | 217 | 267 | 287 | 12 |
| 95° | 65 | 140 | 224 | 273 | 290 | 70 |
| 105° | 230 | 274 | 345 | 393 | 410 | 243 |
| 115° | 420 | 443 | 500 | 539 | 552 | 415 |
| 125° | 606 | 617 | 656 | 688 | 700 | 541 |
| 135° | 781 | 793 | 808 | 835 | 844 | 604 |
| 145° | 947 | 954 | 960 | 969 | 972 | 592 |
| 155° | 1082 | 1086 | 1089 | 1093 | 1091 | 498 |
| 165° | 1178 | 1177 | 1177 | 1183 | 1179 | 332 |
| 175° | 1225 | 1222 | 1220 | 1227 | 1221 | 116 |
| 180° | 1227 | 1227 | 1227 | 1227 | 1227 | |



TEST NUMBER: P331460-940

CATALOG NUMBER: SA2XXDIP-C1005D1080U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 |
| 2.5° | 948.4 | 947.7 | 946.9 | 946.2 | 945.5 | 944.2 | 942.5 | 940.8 | 939.1 | 937.5 | 938.7 |
| 5° | 945.7 | 944.8 | 943.9 | 942.9 | 942.0 | 940.7 | 938.9 | 937.0 | 935.2 | 933.4 | 935.2 |
| 7.5° | 937.2 | 936.6 | 935.9 | 935.4 | 934.8 | 933.8 | 932.4 | 930.9 | 929.6 | 928.2 | 930.3 |
| 10° | 930.7 | 930.1 | 929.4 | 928.8 | 928.2 | 927.5 | 926.6 | 925.6 | 924.7 | 923.8 | 926.2 |
| 12.5° | 919.7 | 919.8 | 920.0 | 920.1 | 920.2 | 919.9 | 919.3 | 918.6 | 917.9 | 917.2 | 919.7 |
| 15° | 902.0 | 902.6 | 903.1 | 903.7 | 904.4 | 904.6 | 904.6 | 904.6 | 904.6 | 904.6 | 907.4 |
| 17.5° | 879.0 | 880.3 | 881.5 | 882.8 | 884.0 | 885.2 | 886.2 | 887.2 | 888.1 | 889.1 | 892.0 |
| 20° | 863.7 | 865.2 | 866.7 | 868.3 | 869.8 | 871.1 | 872.4 | 873.5 | 874.8 | 876.0 | 879.3 |
| 22.5° | 847.3 | 849.0 | 850.8 | 852.6 | 854.3 | 856.0 | 857.7 | 859.4 | 861.1 | 862.8 | 866.2 |
| 25° | 819.9 | 822.1 | 824.2 | 826.3 | 828.5 | 830.9 | 833.6 | 836.3 | 839.1 | 841.8 | 845.4 |
| 27.5° | 787.1 | 790.6 | 794.1 | 797.5 | 801.0 | 804.3 | 807.5 | 810.7 | 814.0 | 817.3 | 821.8 |
| 30° | 765.3 | 769.2 | 773.2 | 777.1 | 781.0 | 785.1 | 789.0 | 792.9 | 796.8 | 800.8 | 805.7 |
| 32.5° | 741.2 | 745.6 | 750.1 | 754.6 | 758.9 | 763.5 | 768.2 | 772.8 | 777.6 | 782.2 | 787.8 |
| 35° | 706.5 | 711.7 | 716.8 | 722.0 | 727.2 | 732.6 | 738.4 | 744.1 | 749.9 | 755.7 | 762.4 |
| 37.5° | 668.8 | 674.8 | 680.7 | 686.6 | 692.6 | 699.3 | 706.8 | 714.3 | 721.8 | 729.2 | 736.6 |
| 40° | 643.6 | 650.3 | 657.0 | 663.7 | 670.4 | 677.8 | 686.0 | 694.2 | 702.4 | 710.6 | 718.5 |
| 42.5° | 619.6 | 626.2 | 632.9 | 639.6 | 646.3 | 654.3 | 663.8 | 673.2 | 682.6 | 692.1 | 700.6 |
| 45° | 579.4 | 587.6 | 595.8 | 604.0 | 612.2 | 621.6 | 632.3 | 642.9 | 653.5 | 664.1 | 673.6 |
| 47.5° | 539.8 | 548.8 | 557.7 | 566.6 | 575.5 | 586.2 | 598.7 | 611.1 | 623.6 | 636.0 | 645.9 |
| 50° | 512.5 | 521.9 | 531.3 | 540.7 | 550.1 | 561.7 | 575.3 | 589.0 | 602.6 | 616.4 | 626.7 |
| 52.5° | 486.2 | 496.1 | 506.0 | 515.9 | 525.8 | 538.0 | 552.3 | 566.8 | 581.1 | 595.6 | 606.1 |
| 55° | 444.2 | 455.0 | 466.0 | 477.0 | 487.9 | 501.2 | 517.0 | 532.8 | 548.6 | 564.4 | 575.3 |
| 57.5° | 402.6 | 414.9 | 427.2 | 439.6 | 451.9 | 466.1 | 482.2 | 498.3 | 514.4 | 530.5 | 542.2 |
| 60° | 373.1 | 386.1 | 399.2 | 412.2 | 425.3 | 440.5 | 457.8 | 475.1 | 492.4 | 509.7 | 521.3 |
| 62.5° | 346.9 | 360.3 | 373.9 | 387.4 | 401.0 | 416.4 | 433.7 | 451.0 | 468.4 | 485.7 | 497.9 |
| 65° | 303.4 | 318.3 | 333.1 | 348.0 | 362.9 | 379.3 | 397.3 | 415.1 | 433.0 | 450.9 | 463.4 |
| 67.5° | 263.5 | 279.0 | 294.5 | 310.1 | 325.7 | 342.6 | 361.0 | 379.3 | 397.6 | 416.0 | 428.6 |
| 70° | 235.1 | 250.8 | 266.6 | 282.4 | 298.2 | 315.5 | 334.4 | 353.2 | 372.0 | 390.8 | 403.9 |
| 72.5° | 208.8 | 225.1 | 241.4 | 257.6 | 273.9 | 291.6 | 310.7 | 329.8 | 348.8 | 367.9 | 380.7 |
| 75° | 168.1 | 185.1 | 202.1 | 219.1 | 236.1 | 254.3 | 273.8 | 293.2 | 312.6 | 332.1 | 345.1 |
| 77.5° | 128.8 | 146.5 | 164.3 | 182.1 | 199.9 | 218.6 | 238.4 | 258.2 | 277.9 | 297.7 | 310.7 |
| 80° | 102.5 | 121.0 | 139.6 | 158.1 | 176.6 | 195.7 | 215.4 | 235.2 | 254.9 | 274.6 | 287.4 |
| 82.5° | 80.6 | 98.9 | 117.2 | 135.5 | 153.7 | 172.9 | 192.9 | 212.9 | 232.8 | 252.8 | 265.6 |
| 85° | 49.2 | 68.0 | 86.9 | 105.7 | 124.5 | 143.7 | 163.1 | 182.5 | 202.0 | 221.4 | 234.2 |
| 87.5° | 27.0 | 45.7 | 64.3 | 82.9 | 101.6 | 121.2 | 141.6 | 162.0 | 182.5 | 203.0 | 215.3 |
| 90° | 14.7 | 35.0 | 55.5 | 75.8 | 96.2 | 118.7 | 143.1 | 167.6 | 192.2 | 216.6 | 228.4 |
| 92.5° | 31.0 | 49.4 | 67.9 | 86.3 | 104.7 | 123.9 | 143.7 | 163.7 | 183.6 | 203.5 | 215.5 |
| 95° | 64.8 | 81.4 | 97.9 | 114.5 | 131.1 | 148.7 | 167.4 | 186.1 | 204.7 | 223.5 | 235.0 |
| 97.5° | 108.0 | 122.7 | 137.4 | 152.1 | 166.8 | 183.4 | 201.8 | 220.2 | 238.5 | 256.8 | 268.0 |
| 100° | 141.1 | 154.2 | 167.3 | 180.3 | 193.4 | 208.8 | 226.5 | 244.2 | 261.9 | 279.6 | 290.9 |
| 102.5° | 174.9 | 186.5 | 198.3 | 210.0 | 221.8 | 236.3 | 253.7 | 271.2 | 288.6 | 305.9 | 317.1 |
| 105° | 229.5 | 239.1 | 248.5 | 258.1 | 267.5 | 280.4 | 296.7 | 312.9 | 329.1 | 345.4 | 356.5 |
| 107.5° | 286.1 | 294.1 | 302.1 | 310.2 | 318.3 | 329.8 | 345.0 | 360.1 | 375.2 | 390.3 | 400.7 |
| 110° | 321.4 | 328.9 | 336.3 | 343.8 | 351.2 | 362.4 | 377.3 | 392.2 | 407.0 | 421.9 | 431.6 |



TEST NUMBER: P331460-940

CATALOG NUMBER: SA2XXDIP-C1005D1080U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 361.1 | 367.7 | 374.2 | 380.6 | 387.1 | 397.3 | 411.3 | 425.3 | 439.3 | 453.2 | 462.4 |
| 115° | 419.8 | 424.5 | 429.3 | 433.9 | 438.6 | 447.6 | 460.8 | 474.0 | 487.2 | 500.4 | 509.3 |
| 117.5° | 476.8 | 480.9 | 484.9 | 488.9 | 492.9 | 500.6 | 512.0 | 523.3 | 534.7 | 546.0 | 554.5 |
| 120° | 515.8 | 518.8 | 521.9 | 525.0 | 528.0 | 534.7 | 545.0 | 555.3 | 565.6 | 576.0 | 584.4 |
| 122.5° | 551.4 | 554.1 | 556.8 | 559.5 | 562.2 | 568.6 | 578.7 | 588.9 | 599.0 | 609.1 | 616.8 |
| 125° | 605.6 | 607.6 | 609.8 | 611.8 | 613.9 | 619.4 | 628.4 | 637.5 | 646.5 | 655.5 | 663.0 |
| 127.5° | 659.6 | 661.9 | 664.2 | 666.6 | 668.9 | 673.6 | 680.6 | 687.6 | 694.6 | 701.6 | 708.3 |
| 130° | 693.6 | 696.3 | 699.0 | 701.7 | 704.4 | 708.6 | 714.6 | 720.5 | 726.4 | 732.4 | 739.1 |
| 132.5° | 731.7 | 733.9 | 736.0 | 738.2 | 740.3 | 743.9 | 748.9 | 753.9 | 758.8 | 763.9 | 769.9 |
| 135° | 781.3 | 783.8 | 786.4 | 788.9 | 791.5 | 794.4 | 798.0 | 801.5 | 804.9 | 808.4 | 814.6 |
| 137.5° | 835.0 | 837.0 | 839.0 | 841.0 | 843.0 | 845.0 | 846.9 | 848.8 | 850.8 | 852.7 | 858.1 |
| 140° | 867.3 | 869.1 | 870.8 | 872.6 | 874.3 | 876.1 | 877.9 | 879.7 | 881.4 | 883.2 | 888.1 |
| 142.5° | 900.4 | 902.2 | 904.0 | 905.7 | 907.5 | 908.8 | 909.7 | 910.6 | 911.6 | 912.5 | 916.5 |
| 145° | 946.7 | 948.3 | 949.9 | 951.5 | 953.1 | 954.7 | 956.0 | 957.4 | 958.8 | 960.2 | 962.2 |
| 147.5° | 989.2 | 991.1 | 993.0 | 995.0 | 996.9 | 998.4 | 999.3 | 1000.2 | 1001.1 | 1002.0 | 1002.8 |
| 150° | 1018.2 | 1019.6 | 1020.9 | 1022.3 | 1023.7 | 1024.8 | 1025.8 | 1026.7 | 1027.6 | 1028.6 | 1029.2 |
| 152.5° | 1043.8 | 1045.3 | 1046.6 | 1048.0 | 1049.4 | 1050.6 | 1051.8 | 1052.8 | 1054.0 | 1055.1 | 1056.0 |
| 155° | 1082.4 | 1083.1 | 1083.8 | 1084.5 | 1085.2 | 1085.8 | 1086.5 | 1087.3 | 1088.0 | 1088.6 | 1089.8 |
| 157.5° | 1115.4 | 1115.8 | 1116.2 | 1116.7 | 1117.2 | 1117.6 | 1118.0 | 1118.5 | 1118.8 | 1119.3 | 1120.9 |
| 160° | 1135.2 | 1135.7 | 1136.1 | 1136.6 | 1137.1 | 1137.4 | 1137.6 | 1137.9 | 1138.1 | 1138.4 | 1139.7 |
| 162.5° | 1153.4 | 1153.5 | 1153.6 | 1153.7 | 1153.9 | 1154.0 | 1154.2 | 1154.4 | 1154.7 | 1154.9 | 1156.5 |
| 165° | 1177.7 | 1177.5 | 1177.2 | 1177.0 | 1176.8 | 1176.7 | 1176.7 | 1176.7 | 1176.7 | 1176.7 | 1178.3 |
| 167.5° | 1198.0 | 1197.3 | 1196.6 | 1196.0 | 1195.2 | 1194.9 | 1194.8 | 1194.8 | 1194.7 | 1194.7 | 1196.3 |
| 170° | 1208.8 | 1208.1 | 1207.4 | 1206.7 | 1206.0 | 1205.6 | 1205.3 | 1205.1 | 1204.9 | 1204.6 | 1206.2 |
| 172.5° | 1216.2 | 1215.6 | 1214.9 | 1214.2 | 1213.4 | 1213.0 | 1212.8 | 1212.5 | 1212.3 | 1212.1 | 1213.7 |
| 175° | 1225.4 | 1224.7 | 1224.0 | 1223.2 | 1222.6 | 1222.0 | 1221.6 | 1221.1 | 1220.7 | 1220.1 | 1221.8 |
| 177.5° | 1229.0 | 1228.5 | 1228.0 | 1227.4 | 1226.9 | 1226.4 | 1226.0 | 1225.7 | 1225.3 | 1224.9 | 1226.0 |
| 180° | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 |



TEST NUMBER: P331460-940

CATALOG NUMBER: SA2XXDIP-C1005D1080U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 |
| 2.5° | 939.9 | 941.1 | 942.4 | 942.7 | 942.2 | 941.7 | 941.2 | 940.8 |
| 5° | 937.0 | 938.9 | 940.7 | 941.4 | 941.1 | 940.8 | 940.5 | 940.2 |
| 7.5° | 932.6 | 934.8 | 936.9 | 937.9 | 937.5 | 937.3 | 936.9 | 936.7 |
| 10° | 928.6 | 931.1 | 933.5 | 934.6 | 934.2 | 934.0 | 933.7 | 933.4 |
| 12.5° | 922.1 | 924.5 | 926.9 | 928.0 | 927.7 | 927.4 | 927.1 | 926.8 |
| 15° | 910.2 | 912.8 | 915.6 | 916.9 | 916.5 | 916.2 | 915.9 | 915.6 |
| 17.5° | 894.8 | 897.7 | 900.5 | 902.0 | 902.0 | 902.0 | 902.0 | 902.0 |
| 20° | 882.6 | 886.0 | 889.3 | 891.0 | 891.0 | 891.0 | 891.0 | 891.0 |
| 22.5° | 869.5 | 872.9 | 876.2 | 878.2 | 878.6 | 879.1 | 879.6 | 880.1 |
| 25° | 849.1 | 852.7 | 856.4 | 858.6 | 859.6 | 860.5 | 861.4 | 862.3 |
| 27.5° | 826.4 | 831.1 | 835.7 | 838.3 | 839.0 | 839.6 | 840.3 | 841.0 |
| 30° | 810.6 | 815.4 | 820.3 | 823.1 | 824.0 | 824.9 | 825.9 | 826.8 |
| 32.5° | 793.4 | 799.0 | 804.6 | 808.2 | 809.9 | 811.5 | 813.2 | 814.8 |
| 35° | 769.1 | 775.8 | 782.5 | 786.8 | 789.0 | 791.1 | 793.3 | 795.3 |
| 37.5° | 744.0 | 751.4 | 758.8 | 763.7 | 765.9 | 768.2 | 770.4 | 772.7 |
| 40° | 726.4 | 734.3 | 742.2 | 747.5 | 750.3 | 753.0 | 755.7 | 758.5 |
| 42.5° | 709.3 | 717.9 | 726.6 | 732.2 | 734.9 | 737.7 | 740.4 | 743.2 |
| 45° | 683.0 | 692.4 | 701.8 | 708.0 | 711.1 | 714.1 | 717.1 | 720.1 |
| 47.5° | 655.7 | 665.5 | 675.4 | 682.0 | 685.3 | 688.7 | 692.0 | 695.4 |
| 50° | 636.9 | 647.3 | 657.6 | 664.5 | 667.8 | 671.1 | 674.5 | 677.8 |
| 52.5° | 616.7 | 627.2 | 637.8 | 644.9 | 648.5 | 652.1 | 655.7 | 659.2 |
| 55° | 586.3 | 597.2 | 608.1 | 615.5 | 619.5 | 623.5 | 627.4 | 631.3 |
| 57.5° | 554.1 | 565.9 | 577.7 | 585.5 | 589.5 | 593.5 | 597.5 | 601.5 |
| 60° | 532.8 | 544.4 | 555.9 | 563.8 | 568.0 | 572.3 | 576.6 | 580.8 |
| 62.5° | 510.2 | 522.5 | 534.8 | 542.9 | 546.9 | 550.9 | 554.9 | 558.9 |
| 65° | 475.9 | 488.3 | 500.8 | 509.0 | 512.9 | 516.8 | 520.8 | 524.8 |
| 67.5° | 441.1 | 453.7 | 466.3 | 474.7 | 478.8 | 482.9 | 487.1 | 491.2 |
| 70° | 417.0 | 430.0 | 443.1 | 451.4 | 455.0 | 458.7 | 462.4 | 466.0 |
| 72.5° | 393.5 | 406.4 | 419.1 | 427.8 | 432.1 | 436.5 | 440.9 | 445.2 |
| 75° | 358.2 | 371.2 | 384.3 | 392.8 | 396.7 | 400.7 | 404.7 | 408.6 |
| 77.5° | 323.6 | 336.6 | 349.6 | 358.3 | 362.5 | 366.8 | 371.0 | 375.2 |
| 80° | 300.1 | 313.0 | 325.7 | 334.2 | 338.5 | 342.7 | 347.0 | 351.2 |
| 82.5° | 278.3 | 291.1 | 303.8 | 312.2 | 316.2 | 320.2 | 324.2 | 328.2 |
| 85° | 246.9 | 259.7 | 272.4 | 280.9 | 285.2 | 289.4 | 293.6 | 297.9 |
| 87.5° | 227.6 | 239.9 | 252.2 | 260.3 | 264.2 | 268.1 | 272.1 | 276.0 |
| 90° | 240.0 | 251.7 | 263.4 | 271.2 | 275.0 | 278.9 | 282.8 | 286.7 |
| 92.5° | 227.5 | 239.5 | 251.5 | 259.3 | 263.0 | 266.7 | 270.4 | 274.1 |
| 95° | 246.6 | 258.1 | 269.6 | 277.0 | 280.2 | 283.3 | 286.5 | 289.7 |
| 97.5° | 279.3 | 290.6 | 301.8 | 309.2 | 312.7 | 316.3 | 319.8 | 323.3 |
| 100° | 302.1 | 313.3 | 324.6 | 331.7 | 334.8 | 338.0 | 341.1 | 344.2 |
| 102.5° | 328.2 | 339.5 | 350.6 | 357.8 | 360.9 | 364.0 | 367.1 | 370.2 |
| 105° | 367.6 | 378.7 | 389.8 | 397.0 | 400.3 | 403.7 | 407.0 | 410.4 |
| 107.5° | 411.1 | 421.5 | 431.9 | 438.2 | 440.5 | 442.8 | 445.1 | 447.4 |
| 110° | 441.3 | 451.0 | 460.7 | 467.0 | 469.6 | 472.3 | 474.9 | 477.5 |



TEST NUMBER: P331460-940

CATALOG NUMBER: SA2XXDIP-C1005D1080U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 471.5 | 480.7 | 489.8 | 495.9 | 498.6 | 501.5 | 504.4 | 507.2 |
| 115° | 518.2 | 527.1 | 536.0 | 541.7 | 544.4 | 547.1 | 549.7 | 552.3 |
| 117.5° | 562.8 | 571.3 | 579.8 | 585.1 | 587.5 | 590.0 | 592.4 | 594.8 |
| 120° | 592.9 | 601.5 | 609.9 | 615.5 | 618.1 | 620.8 | 623.5 | 626.1 |
| 122.5° | 624.6 | 632.2 | 640.0 | 645.0 | 647.3 | 649.7 | 652.0 | 654.3 |
| 125° | 670.6 | 678.1 | 685.5 | 690.5 | 693.0 | 695.5 | 698.0 | 700.5 |
| 127.5° | 715.0 | 721.8 | 728.4 | 732.7 | 734.7 | 736.6 | 738.5 | 740.5 |
| 130° | 746.0 | 752.8 | 759.6 | 763.8 | 765.4 | 766.9 | 768.3 | 769.8 |
| 132.5° | 776.0 | 782.0 | 788.0 | 791.9 | 793.6 | 795.2 | 796.9 | 798.6 |
| 135° | 820.7 | 826.9 | 833.0 | 837.0 | 838.7 | 840.4 | 842.2 | 843.9 |
| 137.5° | 863.5 | 869.0 | 874.3 | 877.6 | 878.8 | 879.9 | 881.0 | 882.2 |
| 140° | 892.9 | 897.8 | 902.6 | 905.4 | 906.3 | 907.3 | 908.2 | 909.1 |
| 142.5° | 920.6 | 924.7 | 928.7 | 931.1 | 931.7 | 932.5 | 933.1 | 933.7 |
| 145° | 964.3 | 966.3 | 968.4 | 969.7 | 970.4 | 970.9 | 971.5 | 972.1 |
| 147.5° | 1003.5 | 1004.2 | 1005.0 | 1005.3 | 1005.2 | 1005.0 | 1004.9 | 1004.8 |
| 150° | 1029.9 | 1030.6 | 1031.4 | 1031.4 | 1030.6 | 1029.9 | 1029.2 | 1028.6 |
| 152.5° | 1056.9 | 1057.7 | 1058.5 | 1058.5 | 1057.7 | 1056.9 | 1056.0 | 1055.1 |
| 155° | 1090.9 | 1092.1 | 1093.2 | 1093.4 | 1092.8 | 1092.1 | 1091.4 | 1090.7 |
| 157.5° | 1122.4 | 1124.0 | 1125.5 | 1125.8 | 1124.6 | 1123.6 | 1122.5 | 1121.3 |
| 160° | 1141.1 | 1142.5 | 1143.9 | 1144.1 | 1143.2 | 1142.3 | 1141.3 | 1140.4 |
| 162.5° | 1158.1 | 1159.6 | 1161.2 | 1161.4 | 1160.3 | 1159.2 | 1158.1 | 1157.0 |
| 165° | 1179.9 | 1181.5 | 1183.1 | 1183.3 | 1182.2 | 1181.1 | 1179.9 | 1178.8 |
| 167.5° | 1197.9 | 1199.5 | 1201.1 | 1201.3 | 1200.2 | 1198.9 | 1197.7 | 1196.6 |
| 170° | 1207.8 | 1209.4 | 1211.0 | 1211.2 | 1209.8 | 1208.4 | 1207.0 | 1205.7 |
| 172.5° | 1215.3 | 1216.9 | 1218.5 | 1218.6 | 1217.3 | 1215.8 | 1214.5 | 1213.1 |
| 175° | 1223.4 | 1225.0 | 1226.6 | 1226.7 | 1225.4 | 1224.0 | 1222.6 | 1221.2 |
| 177.5° | 1227.2 | 1228.2 | 1229.3 | 1229.3 | 1228.2 | 1227.2 | 1226.0 | 1224.9 |
| 180° | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 |

(END OF REPORT)