

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: P331459-930

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

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331459-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
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-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

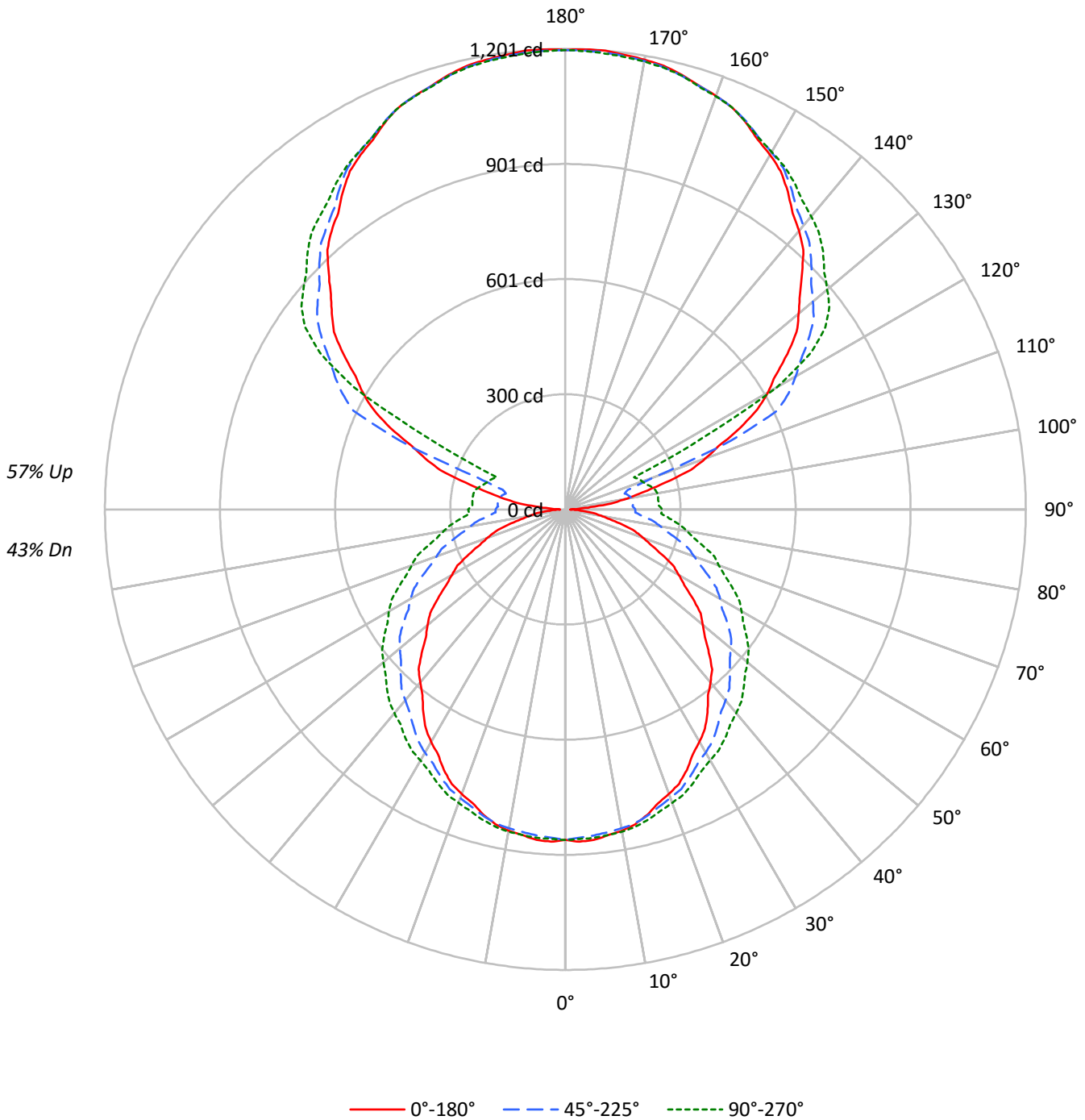
Lumens per Lamp: N/A
Luminaire Lumens: 6802.2 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: General Diffuse

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: P331459-930
CATALOG NUMBER: SA2XXDIP-C1005D1080U930-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331459-930

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

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 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |
| 1 | 95 | 90 | 86 | 82 | 86 | 82 | 79 | 75 | 68 | 65 | 62 | 54 | 52 | 51 | 42 | 41 | 39 | 34 |
| 2 | 86 | 78 | 71 | 66 | 78 | 71 | 65 | 61 | 59 | 54 | 51 | 47 | 44 | 41 | 36 | 34 | 32 | 27 |
| 3 | 78 | 68 | 60 | 54 | 71 | 62 | 55 | 50 | 51 | 46 | 42 | 41 | 37 | 34 | 32 | 29 | 27 | 22 |
| 4 | 71 | 60 | 52 | 45 | 65 | 55 | 48 | 42 | 45 | 40 | 35 | 36 | 32 | 29 | 28 | 25 | 23 | 19 |
| 5 | 65 | 53 | 45 | 39 | 59 | 49 | 41 | 36 | 40 | 35 | 30 | 32 | 28 | 25 | 25 | 22 | 20 | 16 |
| 6 | 60 | 47 | 39 | 33 | 54 | 44 | 36 | 31 | 36 | 30 | 26 | 29 | 25 | 22 | 23 | 19 | 17 | 14 |
| 7 | 55 | 43 | 35 | 29 | 50 | 39 | 32 | 27 | 33 | 27 | 23 | 26 | 22 | 19 | 21 | 17 | 15 | 12 |
| 8 | 51 | 39 | 31 | 25 | 47 | 36 | 29 | 24 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 13 | 11 |
| 9 | 48 | 35 | 28 | 22 | 43 | 32 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 12 | 10 |
| 10 | 44 | 32 | 25 | 20 | 40 | 30 | 23 | 19 | 25 | 20 | 16 | 20 | 16 | 13 | 16 | 13 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13919 | 13919 | 13919 |
| 5° | 13988 | 13400 | 13350 |
| 10° | 13899 | 13004 | 12858 |
| 15° | 13709 | 12584 | 12339 |
| 20° | 13467 | 12136 | 11842 |
| 25° | 13227 | 11701 | 11390 |
| 30° | 12890 | 11257 | 10936 |
| 35° | 12550 | 10828 | 10617 |
| 40° | 12191 | 10461 | 10297 |
| 45° | 11850 | 10133 | 10022 |
| 50° | 11485 | 9837 | 9754 |
| 55° | 11101 | 9519 | 9479 |
| 60° | 10631 | 9187 | 9189 |
| 65° | 10145 | 8801 | 8846 |
| 70° | 9596 | 8384 | 8474 |
| 75° | 8897 | 7976 | 8132 |
| 80° | 7792 | 7559 | 7784 |
| 85° | 6733 | 7197 | 7515 |



TEST NUMBER: P331459-930

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

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.7 | 1.2 |
| 10°-20° | 234.3 | 3.4 |
| 20°-30° | 355.0 | 5.2 |
| 30°-40° | 432.4 | 6.4 |
| 40°-50° | 465.2 | 6.8 |
| 50°-60° | 451.7 | 6.6 |
| 60°-70° | 394.4 | 5.8 |
| 70°-80° | 303.7 | 4.5 |
| 80°-90° | 206.7 | 3.0 |
| 90°-100° | 180.4 | 2.7 |
| 100°-110° | 249.0 | 3.7 |
| 110°-120° | 459.4 | 6.8 |
| 120°-130° | 684.3 | 10.1 |
| 130°-140° | 703.4 | 10.3 |
| 140°-150° | 641.8 | 9.4 |
| 150°-160° | 513.8 | 7.6 |
| 160°-170° | 331.1 | 4.9 |
| 170°-180° | 114.0 | 1.7 |
| 0°-30° | 670.9 | 9.9 |
| 0°-40° | 1103.3 | 16.2 |
| 0°-60° | 2020.2 | 29.7 |
| 0°-90° | 2925.0 | 43.0 |
| 90°-120° | 888.8 | 13.1 |
| 90°-150° | 2918.3 | 42.9 |
| 90°-180° | 3877.0 | 57.0 |
| 0°-180° | 6802.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 862 | 862 | 862 | 862 | 862 | |
| 5° | 865 | 861 | 853 | 860 | 860 | 82 |
| 15° | 825 | 827 | 827 | 838 | 837 | 232 |
| 25° | 750 | 759 | 770 | 784 | 788 | 345 |
| 35° | 646 | 667 | 691 | 717 | 727 | 404 |
| 45° | 530 | 564 | 607 | 644 | 658 | 409 |
| 55° | 406 | 452 | 516 | 559 | 577 | 363 |
| 65° | 277 | 339 | 412 | 462 | 480 | 275 |
| 75° | 154 | 224 | 304 | 355 | 374 | 163 |
| 85° | 45 | 123 | 202 | 253 | 272 | 48 |
| 90° | 13 | 96 | 182 | 235 | 253 | 11 |
| 95° | 66 | 99 | 178 | 227 | 243 | 77 |
| 105° | 270 | 319 | 160 | 212 | 231 | 289 |
| 115° | 503 | 535 | 610 | 263 | 197 | 495 |
| 125° | 707 | 721 | 775 | 813 | 828 | 631 |
| 135° | 873 | 887 | 907 | 941 | 950 | 675 |
| 145° | 1012 | 1011 | 1025 | 1038 | 1041 | 633 |
| 155° | 1114 | 1107 | 1116 | 1121 | 1115 | 513 |
| 165° | 1174 | 1169 | 1171 | 1176 | 1171 | 331 |
| 175° | 1200 | 1195 | 1196 | 1201 | 1193 | 114 |
| 180° | 1198 | 1198 | 1198 | 1198 | 1198 | |



TEST NUMBER: P331459-930

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 |
| 2.5° | 867.2 | 866.5 | 865.8 | 865.1 | 864.5 | 863.3 | 861.8 | 860.2 | 858.7 | 857.1 | 858.3 |
| 5° | 864.6 | 863.8 | 863.0 | 862.1 | 861.3 | 860.1 | 858.4 | 856.7 | 855.1 | 853.4 | 855.1 |
| 7.5° | 856.9 | 856.3 | 855.7 | 855.2 | 854.7 | 853.8 | 852.5 | 851.2 | 849.9 | 848.6 | 850.6 |
| 10° | 850.9 | 850.4 | 849.8 | 849.2 | 848.6 | 848.0 | 847.2 | 846.3 | 845.5 | 844.7 | 846.9 |
| 12.5° | 840.9 | 841.0 | 841.1 | 841.2 | 841.3 | 841.1 | 840.5 | 839.8 | 839.3 | 838.6 | 840.9 |
| 15° | 824.7 | 825.2 | 825.7 | 826.3 | 826.9 | 827.1 | 827.1 | 827.1 | 827.1 | 827.1 | 829.6 |
| 17.5° | 803.6 | 804.9 | 806.0 | 807.1 | 808.3 | 809.3 | 810.2 | 811.1 | 812.0 | 812.9 | 815.5 |
| 20° | 789.7 | 791.1 | 792.5 | 793.9 | 795.2 | 796.5 | 797.6 | 798.7 | 799.8 | 801.0 | 804.0 |
| 22.5° | 774.7 | 776.2 | 777.9 | 779.5 | 781.1 | 782.7 | 784.2 | 785.8 | 787.3 | 788.9 | 792.0 |
| 25° | 749.7 | 751.6 | 753.6 | 755.5 | 757.5 | 759.7 | 762.1 | 764.7 | 767.2 | 769.6 | 773.0 |
| 27.5° | 719.7 | 722.8 | 726.0 | 729.2 | 732.4 | 735.4 | 738.3 | 741.3 | 744.2 | 747.2 | 751.4 |
| 30° | 699.7 | 703.3 | 706.9 | 710.5 | 714.1 | 717.8 | 721.4 | 725.0 | 728.6 | 732.2 | 736.6 |
| 32.5° | 677.7 | 681.8 | 685.8 | 689.9 | 693.9 | 698.1 | 702.4 | 706.6 | 710.9 | 715.2 | 720.3 |
| 35° | 646.0 | 650.7 | 655.4 | 660.1 | 664.9 | 669.8 | 675.1 | 680.4 | 685.7 | 691.0 | 697.1 |
| 37.5° | 611.5 | 616.9 | 622.4 | 627.8 | 633.2 | 639.4 | 646.2 | 653.1 | 659.9 | 666.8 | 673.5 |
| 40° | 588.5 | 594.6 | 600.7 | 606.8 | 612.9 | 619.7 | 627.2 | 634.7 | 642.2 | 649.7 | 657.0 |
| 42.5° | 566.6 | 572.6 | 578.7 | 584.8 | 590.9 | 598.3 | 606.9 | 615.6 | 624.1 | 632.8 | 640.6 |
| 45° | 529.8 | 537.3 | 544.8 | 552.3 | 559.8 | 568.3 | 578.1 | 587.8 | 597.5 | 607.2 | 615.9 |
| 47.5° | 493.6 | 501.7 | 509.9 | 518.0 | 526.2 | 536.0 | 547.4 | 558.7 | 570.1 | 581.5 | 590.5 |
| 50° | 468.6 | 477.2 | 485.8 | 494.4 | 503.0 | 513.6 | 526.0 | 538.5 | 551.0 | 563.5 | 573.0 |
| 52.5° | 444.6 | 453.6 | 462.7 | 471.7 | 480.8 | 491.9 | 505.0 | 518.2 | 531.3 | 544.5 | 554.2 |
| 55° | 406.1 | 416.0 | 426.1 | 436.1 | 446.1 | 458.3 | 472.7 | 487.1 | 501.6 | 516.0 | 526.0 |
| 57.5° | 368.1 | 379.4 | 390.6 | 401.9 | 413.2 | 426.2 | 440.9 | 455.6 | 470.3 | 485.0 | 495.8 |
| 60° | 341.1 | 353.0 | 365.0 | 376.9 | 388.9 | 402.8 | 418.6 | 434.4 | 450.2 | 466.0 | 476.6 |
| 62.5° | 317.2 | 329.5 | 341.9 | 354.2 | 366.6 | 380.7 | 396.6 | 412.4 | 428.3 | 444.1 | 455.3 |
| 65° | 277.4 | 291.0 | 304.6 | 318.2 | 331.8 | 346.8 | 363.2 | 379.5 | 395.9 | 412.3 | 423.7 |
| 67.5° | 240.9 | 255.1 | 269.3 | 283.6 | 297.7 | 313.2 | 330.0 | 346.8 | 363.5 | 380.3 | 391.8 |
| 70° | 214.9 | 229.3 | 243.8 | 258.2 | 272.6 | 288.5 | 305.7 | 322.9 | 340.1 | 357.3 | 369.2 |
| 72.5° | 190.9 | 205.8 | 220.7 | 235.5 | 250.5 | 266.6 | 284.1 | 301.5 | 318.9 | 336.4 | 348.1 |
| 75° | 153.7 | 169.3 | 184.7 | 200.3 | 215.9 | 232.5 | 250.3 | 268.1 | 285.8 | 303.6 | 315.5 |
| 77.5° | 117.7 | 134.0 | 150.3 | 166.5 | 182.8 | 199.9 | 218.0 | 236.0 | 254.0 | 272.1 | 284.1 |
| 80° | 93.7 | 110.6 | 127.6 | 144.6 | 161.4 | 179.0 | 197.0 | 215.1 | 233.1 | 251.1 | 262.8 |
| 82.5° | 73.7 | 90.4 | 107.1 | 123.8 | 140.6 | 158.1 | 176.3 | 194.6 | 212.9 | 231.1 | 242.8 |
| 85° | 45.0 | 62.2 | 79.4 | 96.6 | 113.8 | 131.3 | 149.1 | 166.9 | 184.7 | 202.4 | 214.1 |
| 87.5° | 24.7 | 41.7 | 58.6 | 75.6 | 92.5 | 110.1 | 128.2 | 146.3 | 164.3 | 182.4 | 193.9 |
| 90° | 13.4 | 31.6 | 49.8 | 68.0 | 86.3 | 105.0 | 124.3 | 143.7 | 163.0 | 182.3 | 194.4 |
| 92.5° | 29.0 | 43.8 | 58.6 | 73.4 | 88.2 | 104.5 | 122.5 | 140.3 | 158.2 | 176.0 | 187.4 |
| 95° | 66.4 | 73.1 | 79.7 | 86.4 | 93.1 | 105.5 | 123.4 | 141.5 | 159.5 | 177.5 | 189.0 |
| 97.5° | 120.6 | 114.2 | 107.9 | 101.7 | 95.3 | 101.7 | 120.8 | 140.0 | 159.1 | 178.2 | 189.2 |
| 100° | 162.2 | 146.0 | 130.0 | 113.8 | 97.7 | 99.1 | 117.9 | 136.7 | 155.6 | 174.3 | 186.1 |
| 102.5° | 206.9 | 210.7 | 214.5 | 218.3 | 222.1 | 217.8 | 205.6 | 193.3 | 181.0 | 168.8 | 180.8 |
| 105° | 269.7 | 283.6 | 297.4 | 311.2 | 325.1 | 312.9 | 274.8 | 236.6 | 198.4 | 160.3 | 172.2 |
| 107.5° | 342.8 | 353.9 | 365.0 | 376.1 | 387.2 | 368.1 | 318.9 | 269.7 | 220.5 | 171.2 | 178.4 |
| 110° | 389.0 | 398.5 | 408.1 | 417.8 | 427.3 | 411.1 | 369.1 | 327.0 | 284.9 | 242.9 | 232.5 |



TEST NUMBER: P331459-930

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

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 433.3 | 441.6 | 449.8 | 458.0 | 466.3 | 470.0 | 469.2 | 468.4 | 467.6 | 466.8 | 405.4 |
| 115° | 503.4 | 509.6 | 516.0 | 522.4 | 528.6 | 540.5 | 557.8 | 575.1 | 592.4 | 609.8 | 528.9 |
| 117.5° | 564.7 | 570.3 | 576.0 | 581.6 | 587.3 | 597.5 | 612.5 | 627.3 | 642.1 | 657.0 | 643.7 |
| 120° | 610.4 | 614.4 | 618.4 | 622.4 | 626.5 | 635.7 | 650.3 | 664.9 | 679.5 | 694.0 | 704.1 |
| 122.5° | 649.3 | 652.7 | 656.2 | 659.7 | 663.2 | 672.1 | 686.3 | 700.5 | 714.7 | 729.0 | 737.8 |
| 125° | 707.1 | 709.6 | 712.2 | 714.6 | 717.1 | 724.6 | 737.2 | 749.7 | 762.3 | 774.9 | 783.7 |
| 127.5° | 760.7 | 763.2 | 765.6 | 768.2 | 770.7 | 776.9 | 786.8 | 796.6 | 806.6 | 816.4 | 825.3 |
| 130° | 794.7 | 797.4 | 800.3 | 803.1 | 805.8 | 811.2 | 819.2 | 827.1 | 835.1 | 843.0 | 851.8 |
| 132.5° | 829.3 | 831.7 | 834.1 | 836.3 | 838.7 | 843.2 | 849.8 | 856.4 | 863.0 | 869.7 | 877.9 |
| 135° | 873.2 | 876.2 | 879.3 | 882.4 | 885.5 | 889.2 | 893.8 | 898.3 | 902.8 | 907.3 | 915.1 |
| 137.5° | 918.8 | 920.8 | 922.9 | 925.0 | 927.2 | 929.8 | 932.9 | 936.1 | 939.3 | 942.6 | 949.5 |
| 140° | 948.5 | 949.8 | 951.0 | 952.4 | 953.6 | 955.6 | 958.2 | 960.9 | 963.6 | 966.3 | 972.4 |
| 142.5° | 973.5 | 974.6 | 975.8 | 976.8 | 978.0 | 979.7 | 982.3 | 984.9 | 987.4 | 989.9 | 995.1 |
| 145° | 1011.5 | 1011.2 | 1011.1 | 1010.9 | 1010.6 | 1012.2 | 1015.5 | 1018.7 | 1022.1 | 1025.3 | 1028.3 |
| 147.5° | 1045.6 | 1044.9 | 1044.2 | 1043.4 | 1042.7 | 1043.9 | 1047.2 | 1050.4 | 1053.6 | 1056.9 | 1058.1 |
| 150° | 1067.8 | 1066.4 | 1065.1 | 1063.7 | 1062.4 | 1063.2 | 1066.3 | 1069.4 | 1072.5 | 1075.5 | 1076.8 |
| 152.5° | 1086.5 | 1085.0 | 1083.5 | 1082.0 | 1080.5 | 1081.2 | 1084.1 | 1087.0 | 1090.0 | 1092.9 | 1094.1 |
| 155° | 1113.7 | 1112.0 | 1110.3 | 1108.5 | 1106.8 | 1107.1 | 1109.4 | 1111.7 | 1114.0 | 1116.3 | 1117.4 |
| 157.5° | 1135.1 | 1133.6 | 1132.1 | 1130.7 | 1129.2 | 1129.3 | 1130.9 | 1132.5 | 1134.1 | 1135.7 | 1137.0 |
| 160° | 1147.5 | 1146.4 | 1145.2 | 1144.0 | 1142.9 | 1142.9 | 1144.0 | 1145.2 | 1146.4 | 1147.5 | 1148.7 |
| 162.5° | 1158.6 | 1157.5 | 1156.3 | 1155.1 | 1154.0 | 1153.9 | 1154.9 | 1155.9 | 1156.9 | 1157.9 | 1159.2 |
| 165° | 1173.5 | 1172.3 | 1171.2 | 1170.0 | 1168.9 | 1168.6 | 1169.1 | 1169.8 | 1170.4 | 1170.9 | 1172.2 |
| 167.5° | 1184.6 | 1183.5 | 1182.3 | 1181.1 | 1180.0 | 1179.7 | 1180.2 | 1180.7 | 1181.3 | 1181.9 | 1183.2 |
| 170° | 1190.8 | 1189.7 | 1188.5 | 1187.4 | 1186.3 | 1185.9 | 1186.3 | 1186.6 | 1187.0 | 1187.4 | 1188.7 |
| 172.5° | 1195.0 | 1193.8 | 1192.7 | 1191.6 | 1190.4 | 1190.0 | 1190.4 | 1190.7 | 1191.2 | 1191.6 | 1192.9 |
| 175° | 1200.4 | 1199.1 | 1197.7 | 1196.4 | 1195.0 | 1194.5 | 1194.9 | 1195.3 | 1195.6 | 1196.0 | 1197.4 |
| 177.5° | 1201.3 | 1200.2 | 1199.1 | 1198.0 | 1196.9 | 1196.5 | 1196.6 | 1196.8 | 1196.9 | 1197.1 | 1198.2 |
| 180° | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 |



TEST NUMBER: P331459-930

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

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 |
| 2.5° | 859.3 | 860.5 | 861.6 | 861.9 | 861.4 | 861.0 | 860.5 | 860.1 |
| 5° | 856.7 | 858.4 | 860.1 | 860.7 | 860.5 | 860.2 | 859.9 | 859.7 |
| 7.5° | 852.6 | 854.7 | 856.6 | 857.5 | 857.2 | 857.0 | 856.6 | 856.4 |
| 10° | 849.1 | 851.3 | 853.5 | 854.5 | 854.2 | 853.9 | 853.7 | 853.4 |
| 12.5° | 843.1 | 845.3 | 847.5 | 848.5 | 848.2 | 847.9 | 847.7 | 847.4 |
| 15° | 832.2 | 834.6 | 837.1 | 838.3 | 838.0 | 837.7 | 837.4 | 837.1 |
| 17.5° | 818.2 | 820.8 | 823.4 | 824.7 | 824.7 | 824.7 | 824.7 | 824.7 |
| 20° | 807.0 | 810.1 | 813.1 | 814.6 | 814.6 | 814.6 | 814.6 | 814.6 |
| 22.5° | 795.0 | 798.1 | 801.1 | 802.9 | 803.3 | 803.8 | 804.2 | 804.7 |
| 25° | 776.3 | 779.7 | 783.0 | 785.1 | 785.9 | 786.8 | 787.6 | 788.4 |
| 27.5° | 755.6 | 759.9 | 764.1 | 766.5 | 767.1 | 767.7 | 768.3 | 768.9 |
| 30° | 741.1 | 745.5 | 750.0 | 752.6 | 753.4 | 754.2 | 755.1 | 755.9 |
| 32.5° | 725.5 | 730.5 | 735.6 | 738.9 | 740.5 | 741.9 | 743.5 | 744.9 |
| 35° | 703.2 | 709.3 | 715.4 | 719.4 | 721.4 | 723.3 | 725.3 | 727.2 |
| 37.5° | 680.3 | 687.1 | 693.8 | 698.2 | 700.3 | 702.4 | 704.4 | 706.5 |
| 40° | 664.1 | 671.4 | 678.6 | 683.5 | 686.0 | 688.4 | 691.0 | 693.5 |
| 42.5° | 648.5 | 656.4 | 664.3 | 669.4 | 672.0 | 674.5 | 676.9 | 679.5 |
| 45° | 624.4 | 633.1 | 641.6 | 647.3 | 650.1 | 652.9 | 655.7 | 658.4 |
| 47.5° | 599.5 | 608.5 | 617.5 | 623.5 | 626.6 | 629.7 | 632.7 | 635.8 |
| 50° | 582.4 | 591.8 | 601.3 | 607.6 | 610.6 | 613.6 | 616.7 | 619.7 |
| 52.5° | 563.9 | 573.5 | 583.2 | 589.6 | 592.9 | 596.2 | 599.5 | 602.8 |
| 55° | 536.1 | 546.0 | 556.0 | 562.8 | 566.4 | 570.1 | 573.6 | 577.2 |
| 57.5° | 506.6 | 517.4 | 528.2 | 535.3 | 539.0 | 542.7 | 546.3 | 550.0 |
| 60° | 487.1 | 497.7 | 508.3 | 515.5 | 519.3 | 523.3 | 527.2 | 531.0 |
| 62.5° | 466.5 | 477.7 | 488.9 | 496.4 | 500.0 | 503.7 | 507.4 | 511.0 |
| 65° | 435.1 | 446.5 | 457.9 | 465.4 | 469.0 | 472.5 | 476.2 | 479.8 |
| 67.5° | 403.3 | 414.8 | 426.3 | 434.0 | 437.7 | 441.5 | 445.3 | 449.1 |
| 70° | 381.2 | 393.1 | 405.1 | 412.7 | 416.0 | 419.4 | 422.7 | 426.1 |
| 72.5° | 359.8 | 371.5 | 383.2 | 391.1 | 395.1 | 399.1 | 403.1 | 407.1 |
| 75° | 327.5 | 339.4 | 351.4 | 359.1 | 362.7 | 366.4 | 370.0 | 373.6 |
| 77.5° | 295.9 | 307.8 | 319.7 | 327.6 | 331.4 | 335.3 | 339.2 | 343.1 |
| 80° | 274.4 | 286.2 | 297.8 | 305.6 | 309.5 | 313.3 | 317.2 | 321.1 |
| 82.5° | 254.5 | 266.1 | 277.8 | 285.4 | 289.1 | 292.8 | 296.4 | 300.1 |
| 85° | 225.8 | 237.4 | 249.1 | 256.8 | 260.7 | 264.6 | 268.5 | 272.4 |
| 87.5° | 205.5 | 217.0 | 228.4 | 236.0 | 239.7 | 243.3 | 247.0 | 250.5 |
| 90° | 206.4 | 218.5 | 230.6 | 238.5 | 242.1 | 245.9 | 249.6 | 253.3 |
| 92.5° | 198.9 | 210.2 | 221.6 | 229.0 | 232.6 | 236.2 | 239.8 | 243.3 |
| 95° | 200.5 | 212.1 | 223.6 | 230.9 | 234.0 | 237.2 | 240.3 | 243.4 |
| 97.5° | 200.2 | 211.3 | 222.3 | 229.7 | 233.2 | 236.7 | 240.2 | 243.7 |
| 100° | 198.0 | 209.8 | 221.6 | 229.3 | 232.7 | 236.1 | 239.5 | 243.0 |
| 102.5° | 192.8 | 204.9 | 217.0 | 224.8 | 228.4 | 232.0 | 235.5 | 239.1 |
| 105° | 184.0 | 195.8 | 207.7 | 215.5 | 219.3 | 223.1 | 227.0 | 230.8 |
| 107.5° | 185.6 | 192.7 | 199.9 | 205.4 | 209.2 | 213.0 | 216.9 | 220.7 |
| 110° | 222.2 | 211.7 | 201.4 | 198.1 | 201.9 | 205.8 | 209.6 | 213.4 |



TEST NUMBER: P331459-930

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

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 344.1 | 282.7 | 221.3 | 192.4 | 196.1 | 199.7 | 203.4 | 207.1 |
| 115° | 448.0 | 367.2 | 286.3 | 240.5 | 229.7 | 218.9 | 208.1 | 197.3 |
| 117.5° | 630.3 | 616.9 | 603.6 | 575.6 | 532.8 | 490.1 | 447.4 | 404.6 |
| 120° | 714.2 | 724.3 | 734.3 | 727.9 | 705.0 | 682.0 | 659.1 | 636.2 |
| 122.5° | 746.8 | 755.8 | 764.7 | 767.9 | 765.5 | 763.0 | 760.6 | 758.2 |
| 125° | 792.6 | 801.4 | 810.2 | 816.2 | 819.3 | 822.3 | 825.4 | 828.5 |
| 127.5° | 834.1 | 843.0 | 851.8 | 857.5 | 860.1 | 862.7 | 865.3 | 867.8 |
| 130° | 860.6 | 869.4 | 878.2 | 883.6 | 885.6 | 887.6 | 889.7 | 891.7 |
| 132.5° | 886.1 | 894.4 | 902.6 | 907.8 | 909.8 | 911.8 | 913.9 | 915.9 |
| 135° | 922.8 | 930.6 | 938.3 | 943.1 | 944.9 | 946.8 | 948.7 | 950.5 |
| 137.5° | 956.5 | 963.5 | 970.5 | 974.6 | 975.8 | 977.1 | 978.4 | 979.6 |
| 140° | 978.6 | 984.8 | 991.0 | 994.4 | 995.2 | 995.8 | 996.5 | 997.2 |
| 142.5° | 1000.2 | 1005.3 | 1010.5 | 1013.3 | 1013.7 | 1014.2 | 1014.7 | 1015.2 |
| 145° | 1031.4 | 1034.4 | 1037.4 | 1039.1 | 1039.5 | 1039.9 | 1040.3 | 1040.8 |
| 147.5° | 1059.3 | 1060.5 | 1061.8 | 1062.3 | 1062.2 | 1062.0 | 1061.8 | 1061.7 |
| 150° | 1077.9 | 1079.0 | 1080.2 | 1080.3 | 1079.3 | 1078.4 | 1077.4 | 1076.4 |
| 152.5° | 1095.2 | 1096.4 | 1097.6 | 1097.5 | 1096.2 | 1094.9 | 1093.6 | 1092.4 |
| 155° | 1118.6 | 1119.8 | 1121.0 | 1120.7 | 1119.2 | 1117.7 | 1116.1 | 1114.6 |
| 157.5° | 1138.3 | 1139.6 | 1140.9 | 1140.8 | 1139.4 | 1137.8 | 1136.4 | 1134.8 |
| 160° | 1149.8 | 1151.0 | 1152.1 | 1152.0 | 1150.7 | 1149.3 | 1148.0 | 1146.6 |
| 162.5° | 1160.5 | 1161.8 | 1163.2 | 1162.9 | 1161.3 | 1159.7 | 1158.0 | 1156.3 |
| 165° | 1173.6 | 1174.9 | 1176.3 | 1176.3 | 1174.9 | 1173.6 | 1172.2 | 1170.9 |
| 167.5° | 1184.5 | 1185.9 | 1187.2 | 1187.0 | 1185.3 | 1183.6 | 1181.9 | 1180.1 |
| 170° | 1190.1 | 1191.4 | 1192.8 | 1192.5 | 1190.8 | 1189.1 | 1187.4 | 1185.6 |
| 172.5° | 1194.3 | 1195.6 | 1196.9 | 1196.8 | 1195.0 | 1193.3 | 1191.6 | 1189.8 |
| 175° | 1198.7 | 1200.1 | 1201.4 | 1201.2 | 1199.2 | 1197.3 | 1195.4 | 1193.4 |
| 177.5° | 1199.2 | 1200.3 | 1201.4 | 1201.3 | 1199.9 | 1198.5 | 1197.1 | 1195.7 |
| 180° | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 |

(END OF REPORT)