

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: P331364-830

Luminaire Tested: **SA2XXDIP-C675D925U830-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331364-830
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-C675D925U830-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5667.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

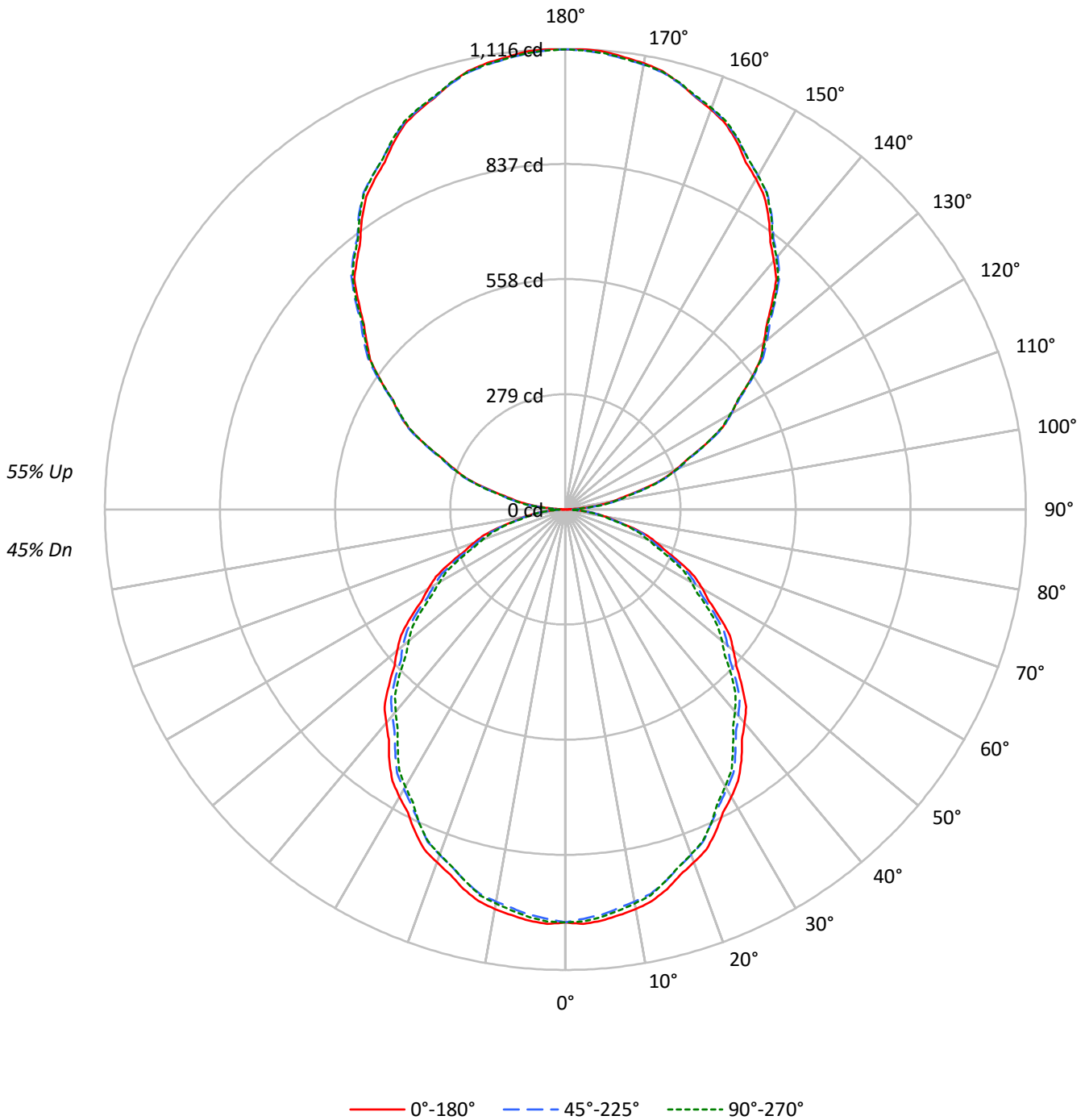
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331364-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331364-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 65 | 65 | 65 | 52 | 52 | 52 | 45 |
| 1 | 97 | 92 | 88 | 85 | 88 | 85 | 81 | 78 | 71 | 68 | 66 | 58 | 56 | 54 | 45 | 44 | 43 | 38 |
| 2 | 88 | 81 | 75 | 69 | 80 | 74 | 69 | 64 | 62 | 58 | 55 | 51 | 48 | 45 | 40 | 38 | 37 | 32 |
| 3 | 80 | 71 | 64 | 58 | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 41 | 38 | 35 | 33 | 31 | 27 |
| 4 | 73 | 63 | 55 | 49 | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 | 23 |
| 5 | 67 | 56 | 48 | 42 | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 23 | 20 |
| 6 | 62 | 50 | 42 | 36 | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 21 | 18 |
| 7 | 57 | 45 | 37 | 32 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 21 | 18 | 16 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 | 14 |
| 9 | 49 | 37 | 30 | 25 | 45 | 35 | 28 | 23 | 30 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 13 |
| 10 | 46 | 34 | 27 | 22 | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 19 | 16 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16157 | 16157 | 16157 |
| 5° | 16219 | 15985 | 16078 |
| 10° | 16123 | 15823 | 15901 |
| 15° | 15921 | 15616 | 15600 |
| 20° | 15639 | 15309 | 15292 |
| 25° | 15358 | 14931 | 14931 |
| 30° | 14997 | 14585 | 14458 |
| 35° | 14661 | 14168 | 13957 |
| 40° | 14235 | 13748 | 13487 |
| 45° | 13819 | 13337 | 13006 |
| 50° | 13366 | 12906 | 12446 |
| 55° | 12892 | 12405 | 11944 |
| 60° | 12368 | 11806 | 11370 |
| 65° | 11801 | 11213 | 10697 |
| 70° | 11084 | 10494 | 9994 |
| 75° | 10081 | 9669 | 9426 |
| 80° | 8945 | 8675 | 8229 |
| 85° | 7317 | 6947 | 6224 |



TEST NUMBER: P331364-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.1 | 1.7 |
| 10°-20° | 264.8 | 4.7 |
| 20°-30° | 389.2 | 6.9 |
| 30°-40° | 452.1 | 8.0 |
| 40°-50° | 451.6 | 8.0 |
| 50°-60° | 393.8 | 6.9 |
| 60°-70° | 291.2 | 5.1 |
| 70°-80° | 164.9 | 2.9 |
| 80°-90° | 48.8 | 0.9 |
| 90°-100° | 70.6 | 1.2 |
| 100°-110° | 219.4 | 3.9 |
| 110°-120° | 375.0 | 6.6 |
| 120°-130° | 493.1 | 8.7 |
| 130°-140° | 553.4 | 9.8 |
| 140°-150° | 542.7 | 9.6 |
| 150°-160° | 455.2 | 8.0 |
| 160°-170° | 301.9 | 5.3 |
| 170°-180° | 105.5 | 1.9 |
| 0°-30° | 748.0 | 13.2 |
| 0°-40° | 1200.1 | 21.2 |
| 0°-60° | 2045.4 | 36.1 |
| 0°-90° | 2550.3 | 45.0 |
| 90°-120° | 665.0 | 11.7 |
| 90°-150° | 2254.1 | 39.8 |
| 90°-180° | 3117.0 | 55.0 |
| 0°-180° | 5667.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1001 | 1001 | 1001 | 1001 | 1001 | |
| 5° | 1001 | 996 | 986 | 993 | 992 | 95 |
| 15° | 952 | 946 | 934 | 938 | 933 | 268 |
| 25° | 862 | 854 | 838 | 840 | 838 | 396 |
| 35° | 744 | 734 | 719 | 713 | 708 | 464 |
| 45° | 605 | 598 | 584 | 574 | 570 | 467 |
| 55° | 458 | 452 | 441 | 430 | 424 | 409 |
| 65° | 309 | 303 | 294 | 285 | 280 | 305 |
| 75° | 162 | 160 | 155 | 150 | 151 | 173 |
| 85° | 40 | 38 | 38 | 35 | 34 | 45 |
| 90° | 1 | 13 | 33 | 31 | 32 | 4 |
| 95° | 49 | 58 | 60 | 60 | 58 | 56 |
| 105° | 202 | 205 | 207 | 209 | 209 | 214 |
| 115° | 376 | 381 | 380 | 379 | 376 | 372 |
| 125° | 547 | 555 | 553 | 550 | 549 | 489 |
| 135° | 708 | 718 | 720 | 719 | 717 | 547 |
| 145° | 860 | 866 | 872 | 873 | 869 | 537 |
| 155° | 983 | 986 | 988 | 993 | 990 | 452 |
| 165° | 1070 | 1069 | 1069 | 1074 | 1070 | 301 |
| 175° | 1113 | 1110 | 1108 | 1114 | 1109 | 106 |
| 180° | 1115 | 1115 | 1115 | 1115 | 1115 | |



TEST NUMBER: P331364-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 |
| 2.5° | 1005.3 | 1004.5 | 1003.6 | 1002.8 | 1001.9 | 1000.5 | 998.6 | 996.7 | 994.9 | 993.0 | 994.7 |
| 5° | 1000.7 | 999.8 | 999.0 | 998.2 | 997.3 | 995.7 | 993.3 | 991.0 | 988.6 | 986.3 | 988.0 |
| 7.5° | 991.8 | 990.5 | 989.2 | 987.9 | 986.6 | 984.7 | 982.3 | 979.9 | 977.5 | 975.1 | 976.8 |
| 10° | 983.4 | 981.8 | 980.3 | 978.8 | 977.4 | 975.3 | 972.8 | 970.3 | 967.6 | 965.1 | 966.8 |
| 12.5° | 971.9 | 970.5 | 969.1 | 967.8 | 966.5 | 964.6 | 962.0 | 959.4 | 956.9 | 954.3 | 955.5 |
| 15° | 952.5 | 951.3 | 950.0 | 948.8 | 947.4 | 945.4 | 942.6 | 939.8 | 937.1 | 934.2 | 935.2 |
| 17.5° | 927.9 | 926.6 | 925.4 | 924.1 | 922.8 | 920.8 | 917.9 | 915.1 | 912.3 | 909.5 | 910.5 |
| 20° | 910.2 | 909.0 | 907.7 | 906.3 | 905.1 | 903.0 | 899.9 | 897.0 | 894.0 | 891.0 | 891.6 |
| 22.5° | 892.5 | 890.7 | 888.9 | 887.1 | 885.3 | 883.1 | 880.2 | 877.4 | 874.6 | 871.8 | 871.9 |
| 25° | 862.1 | 860.4 | 858.8 | 857.0 | 855.3 | 852.6 | 848.9 | 845.4 | 841.7 | 838.1 | 838.5 |
| 27.5° | 827.5 | 826.0 | 824.4 | 822.8 | 821.3 | 819.2 | 816.2 | 813.4 | 810.5 | 807.7 | 807.0 |
| 30° | 804.4 | 802.7 | 801.0 | 799.3 | 797.6 | 795.1 | 791.9 | 788.7 | 785.5 | 782.3 | 781.7 |
| 32.5° | 779.8 | 778.4 | 777.0 | 775.6 | 774.3 | 771.9 | 768.5 | 765.2 | 761.8 | 758.4 | 757.2 |
| 35° | 743.8 | 741.7 | 739.5 | 737.4 | 735.2 | 732.4 | 729.1 | 725.6 | 722.2 | 718.8 | 717.5 |
| 37.5° | 703.1 | 701.3 | 699.4 | 697.5 | 695.7 | 693.0 | 689.6 | 686.2 | 682.8 | 679.3 | 677.7 |
| 40° | 675.4 | 673.7 | 672.0 | 670.3 | 668.6 | 666.1 | 662.6 | 659.2 | 655.8 | 652.3 | 650.4 |
| 42.5° | 648.6 | 646.8 | 645.1 | 643.4 | 641.7 | 639.1 | 635.7 | 632.3 | 628.9 | 625.5 | 623.3 |
| 45° | 605.2 | 603.7 | 602.2 | 600.8 | 599.3 | 596.9 | 593.7 | 590.5 | 587.3 | 584.1 | 581.7 |
| 47.5° | 562.1 | 560.7 | 559.3 | 557.9 | 556.5 | 554.1 | 550.7 | 547.4 | 544.1 | 540.7 | 538.3 |
| 50° | 532.1 | 531.0 | 530.0 | 528.9 | 527.8 | 525.8 | 522.8 | 519.8 | 516.8 | 513.8 | 510.9 |
| 52.5° | 502.8 | 501.4 | 500.0 | 498.6 | 497.2 | 495.1 | 492.3 | 489.5 | 486.6 | 483.8 | 481.4 |
| 55° | 458.0 | 456.8 | 455.4 | 454.1 | 452.9 | 450.9 | 448.4 | 445.8 | 443.3 | 440.7 | 438.1 |
| 57.5° | 412.9 | 412.0 | 410.9 | 409.9 | 408.9 | 407.0 | 404.2 | 401.3 | 398.5 | 395.7 | 393.1 |
| 60° | 383.0 | 382.1 | 381.3 | 380.4 | 379.6 | 377.6 | 374.7 | 371.6 | 368.6 | 365.6 | 363.3 |
| 62.5° | 353.7 | 352.3 | 351.0 | 349.6 | 348.3 | 346.4 | 344.1 | 341.8 | 339.5 | 337.1 | 335.0 |
| 65° | 308.9 | 307.6 | 306.3 | 305.0 | 303.7 | 302.0 | 299.9 | 297.7 | 295.6 | 293.5 | 291.5 |
| 67.5° | 263.3 | 262.2 | 261.2 | 260.1 | 259.1 | 257.7 | 255.7 | 253.8 | 251.9 | 250.0 | 248.5 |
| 70° | 234.8 | 233.9 | 233.1 | 232.2 | 231.4 | 230.0 | 228.0 | 226.1 | 224.2 | 222.3 | 220.7 |
| 72.5° | 205.6 | 204.6 | 203.8 | 202.9 | 202.1 | 201.0 | 199.8 | 198.6 | 197.4 | 196.0 | 194.6 |
| 75° | 161.6 | 161.2 | 160.8 | 160.3 | 159.9 | 159.2 | 158.2 | 157.0 | 156.0 | 155.0 | 153.6 |
| 77.5° | 122.4 | 121.7 | 120.9 | 120.2 | 119.5 | 118.9 | 118.5 | 118.0 | 117.6 | 117.2 | 116.6 |
| 80° | 96.2 | 96.0 | 95.8 | 95.6 | 95.4 | 95.0 | 94.6 | 94.2 | 93.8 | 93.3 | 92.7 |
| 82.5° | 71.6 | 71.5 | 71.5 | 71.4 | 71.4 | 71.3 | 71.0 | 70.8 | 70.5 | 70.2 | 69.5 |
| 85° | 39.5 | 39.2 | 39.0 | 38.8 | 38.5 | 38.4 | 38.2 | 38.0 | 37.7 | 37.5 | 36.9 |
| 87.5° | 14.0 | 14.2 | 14.3 | 14.5 | 14.7 | 15.1 | 15.6 | 16.2 | 16.8 | 17.3 | 16.8 |
| 90° | 0.9 | 3.5 | 5.9 | 8.5 | 10.9 | 14.5 | 19.1 | 23.8 | 28.3 | 32.9 | 32.5 |
| 92.5° | 16.8 | 18.6 | 20.5 | 22.2 | 24.1 | 25.5 | 26.7 | 27.7 | 28.8 | 29.9 | 30.0 |
| 95° | 48.9 | 51.0 | 53.1 | 55.1 | 57.3 | 58.5 | 58.9 | 59.4 | 59.8 | 60.2 | 60.2 |
| 97.5° | 89.4 | 91.2 | 93.0 | 94.9 | 96.7 | 98.0 | 98.9 | 99.6 | 100.4 | 101.2 | 101.2 |
| 100° | 119.4 | 121.1 | 122.8 | 124.5 | 126.1 | 127.3 | 127.9 | 128.6 | 129.2 | 129.8 | 129.8 |
| 102.5° | 151.1 | 152.4 | 153.7 | 155.0 | 156.4 | 157.5 | 158.3 | 159.1 | 159.9 | 160.7 | 160.8 |
| 105° | 202.3 | 202.8 | 203.5 | 204.2 | 204.7 | 205.3 | 205.7 | 206.1 | 206.5 | 206.9 | 207.4 |
| 107.5° | 253.7 | 254.7 | 255.6 | 256.6 | 257.5 | 257.9 | 257.9 | 257.9 | 257.9 | 257.9 | 258.1 |
| 110° | 286.9 | 288.1 | 289.4 | 290.7 | 291.9 | 292.6 | 292.6 | 292.6 | 292.6 | 292.6 | 292.6 |



TEST NUMBER: P331364-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 323.0 | 324.2 | 325.6 | 326.8 | 328.0 | 328.6 | 328.4 | 328.2 | 328.1 | 327.9 | 327.4 |
| 115° | 376.3 | 377.5 | 378.7 | 380.0 | 381.3 | 381.6 | 381.3 | 380.9 | 380.4 | 380.0 | 379.8 |
| 117.5° | 429.3 | 430.9 | 432.6 | 434.3 | 436.0 | 436.2 | 435.1 | 433.9 | 432.7 | 431.6 | 431.0 |
| 120° | 464.7 | 466.4 | 468.0 | 469.7 | 471.4 | 471.4 | 469.7 | 468.0 | 466.4 | 464.7 | 464.7 |
| 122.5° | 497.0 | 499.0 | 501.1 | 503.0 | 505.0 | 505.5 | 504.3 | 503.1 | 502.0 | 500.8 | 500.3 |
| 125° | 547.4 | 549.3 | 551.2 | 553.1 | 555.0 | 555.6 | 555.0 | 554.3 | 553.7 | 553.1 | 552.4 |
| 127.5° | 596.5 | 598.9 | 601.3 | 603.7 | 606.1 | 606.9 | 606.1 | 605.4 | 604.6 | 603.9 | 603.1 |
| 130° | 627.4 | 630.1 | 632.8 | 635.6 | 638.3 | 639.4 | 638.9 | 638.6 | 638.2 | 637.7 | 637.3 |
| 132.5° | 662.0 | 664.2 | 666.5 | 668.6 | 670.9 | 672.0 | 672.1 | 672.2 | 672.2 | 672.3 | 671.5 |
| 135° | 708.3 | 710.6 | 712.8 | 715.2 | 717.5 | 718.9 | 719.3 | 719.6 | 720.1 | 720.5 | 720.3 |
| 137.5° | 757.1 | 758.8 | 760.7 | 762.6 | 764.5 | 765.7 | 766.3 | 766.9 | 767.4 | 767.9 | 767.8 |
| 140° | 786.4 | 788.2 | 790.1 | 792.0 | 793.9 | 795.3 | 796.4 | 797.4 | 798.5 | 799.6 | 799.6 |
| 142.5° | 816.4 | 818.3 | 820.2 | 822.1 | 824.0 | 825.3 | 826.0 | 826.7 | 827.4 | 828.1 | 828.3 |
| 145° | 859.7 | 861.2 | 862.6 | 864.1 | 865.5 | 867.0 | 868.2 | 869.4 | 870.7 | 871.9 | 872.1 |
| 147.5° | 898.2 | 900.0 | 901.8 | 903.5 | 905.3 | 906.6 | 907.5 | 908.2 | 909.1 | 909.9 | 910.4 |
| 150° | 924.6 | 925.9 | 927.1 | 928.4 | 929.6 | 930.7 | 931.5 | 932.4 | 933.2 | 934.1 | 934.6 |
| 152.5° | 947.9 | 949.2 | 950.5 | 951.7 | 953.0 | 954.1 | 955.1 | 956.1 | 957.1 | 958.1 | 958.9 |
| 155° | 983.0 | 983.5 | 984.2 | 984.9 | 985.4 | 986.1 | 986.7 | 987.3 | 988.0 | 988.5 | 989.7 |
| 157.5° | 1012.9 | 1013.2 | 1013.7 | 1014.1 | 1014.6 | 1014.9 | 1015.3 | 1015.7 | 1016.1 | 1016.4 | 1017.9 |
| 160° | 1031.0 | 1031.3 | 1031.7 | 1032.2 | 1032.6 | 1032.9 | 1033.1 | 1033.3 | 1033.5 | 1033.7 | 1035.0 |
| 162.5° | 1047.4 | 1047.5 | 1047.6 | 1047.7 | 1047.8 | 1047.9 | 1048.2 | 1048.4 | 1048.6 | 1048.8 | 1050.2 |
| 165° | 1069.5 | 1069.3 | 1069.0 | 1068.8 | 1068.7 | 1068.6 | 1068.6 | 1068.6 | 1068.6 | 1068.6 | 1070.0 |
| 167.5° | 1087.9 | 1087.3 | 1086.7 | 1086.0 | 1085.4 | 1085.1 | 1085.1 | 1085.0 | 1085.0 | 1084.9 | 1086.4 |
| 170° | 1097.7 | 1097.0 | 1096.5 | 1095.8 | 1095.1 | 1094.8 | 1094.6 | 1094.4 | 1094.1 | 1093.9 | 1095.4 |
| 172.5° | 1104.5 | 1103.8 | 1103.2 | 1102.6 | 1101.9 | 1101.5 | 1101.4 | 1101.1 | 1100.9 | 1100.7 | 1102.2 |
| 175° | 1112.8 | 1112.1 | 1111.4 | 1110.9 | 1110.2 | 1109.7 | 1109.3 | 1108.9 | 1108.4 | 1108.1 | 1109.5 |
| 177.5° | 1116.2 | 1115.6 | 1115.1 | 1114.7 | 1114.1 | 1113.7 | 1113.3 | 1113.0 | 1112.7 | 1112.4 | 1113.3 |
| 180° | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 |



TEST NUMBER: P331364-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 |
| 2.5° | 996.4 | 998.2 | 999.8 | 1000.5 | 1000.1 | 999.8 | 999.5 | 999.2 |
| 5° | 989.7 | 991.4 | 993.1 | 993.7 | 993.3 | 992.9 | 992.5 | 992.0 |
| 7.5° | 978.5 | 980.2 | 981.9 | 982.5 | 982.0 | 981.7 | 981.2 | 980.7 |
| 10° | 968.5 | 970.3 | 971.9 | 972.4 | 971.9 | 971.2 | 970.5 | 969.9 |
| 12.5° | 956.7 | 957.9 | 959.1 | 959.4 | 958.9 | 958.6 | 958.1 | 957.6 |
| 15° | 936.0 | 936.9 | 937.7 | 937.6 | 936.5 | 935.5 | 934.4 | 933.3 |
| 17.5° | 911.4 | 912.4 | 913.4 | 913.4 | 912.4 | 911.3 | 910.3 | 909.3 |
| 20° | 892.3 | 893.0 | 893.5 | 893.4 | 892.6 | 891.7 | 890.9 | 890.0 |
| 22.5° | 872.0 | 872.1 | 872.2 | 872.0 | 871.6 | 871.0 | 870.5 | 870.1 |
| 25° | 839.0 | 839.3 | 839.8 | 839.8 | 839.3 | 839.0 | 838.5 | 838.1 |
| 27.5° | 806.3 | 805.8 | 805.1 | 804.3 | 803.2 | 802.2 | 801.2 | 800.1 |
| 30° | 781.0 | 780.3 | 779.7 | 778.9 | 778.1 | 777.2 | 776.4 | 775.5 |
| 32.5° | 756.1 | 755.0 | 753.8 | 752.8 | 752.0 | 751.1 | 750.2 | 749.3 |
| 35° | 716.2 | 714.9 | 713.6 | 712.5 | 711.4 | 710.3 | 709.3 | 708.1 |
| 37.5° | 676.2 | 674.6 | 673.0 | 671.7 | 670.6 | 669.6 | 668.6 | 667.6 |
| 40° | 648.6 | 646.6 | 644.7 | 643.3 | 642.4 | 641.6 | 640.7 | 639.9 |
| 42.5° | 621.2 | 619.2 | 617.1 | 615.4 | 614.2 | 613.0 | 611.8 | 610.6 |
| 45° | 579.4 | 577.0 | 574.7 | 573.1 | 572.2 | 571.4 | 570.5 | 569.6 |
| 47.5° | 535.8 | 533.3 | 530.8 | 529.0 | 527.7 | 526.5 | 525.3 | 524.1 |
| 50° | 507.8 | 504.8 | 501.8 | 499.8 | 498.7 | 497.7 | 496.6 | 495.5 |
| 52.5° | 478.8 | 476.4 | 473.9 | 471.9 | 470.5 | 469.1 | 467.7 | 466.3 |
| 55° | 435.5 | 433.0 | 430.5 | 428.6 | 427.5 | 426.5 | 425.4 | 424.3 |
| 57.5° | 390.6 | 388.0 | 385.6 | 383.9 | 383.0 | 382.3 | 381.4 | 380.6 |
| 60° | 360.9 | 358.5 | 356.2 | 354.8 | 354.1 | 353.5 | 352.8 | 352.1 |
| 62.5° | 332.8 | 330.6 | 328.5 | 327.0 | 326.1 | 325.3 | 324.5 | 323.7 |
| 65° | 289.6 | 287.7 | 285.8 | 284.3 | 283.2 | 282.1 | 281.1 | 280.0 |
| 67.5° | 246.9 | 245.5 | 244.0 | 242.8 | 242.0 | 241.1 | 240.3 | 239.4 |
| 70° | 219.2 | 217.8 | 216.3 | 215.1 | 214.2 | 213.4 | 212.5 | 211.7 |
| 72.5° | 193.1 | 191.6 | 190.1 | 189.0 | 188.3 | 187.7 | 187.0 | 186.2 |
| 75° | 152.3 | 151.1 | 149.8 | 149.4 | 149.8 | 150.2 | 150.6 | 151.1 |
| 77.5° | 115.9 | 115.3 | 114.6 | 114.0 | 113.4 | 112.8 | 112.3 | 111.6 |
| 80° | 92.1 | 91.4 | 90.8 | 90.2 | 89.8 | 89.4 | 89.0 | 88.5 |
| 82.5° | 68.6 | 67.8 | 67.0 | 66.5 | 66.4 | 66.4 | 66.3 | 66.2 |
| 85° | 36.3 | 35.6 | 35.0 | 34.5 | 34.3 | 34.1 | 33.9 | 33.6 |
| 87.5° | 16.2 | 15.6 | 15.0 | 14.6 | 14.5 | 14.3 | 14.2 | 14.1 |
| 90° | 32.0 | 31.7 | 31.3 | 31.1 | 31.4 | 31.6 | 31.8 | 32.0 |
| 92.5° | 30.1 | 30.2 | 30.3 | 30.3 | 30.3 | 30.3 | 30.4 | 30.4 |
| 95° | 60.2 | 60.2 | 60.2 | 59.9 | 59.6 | 59.2 | 58.7 | 58.3 |
| 97.5° | 101.2 | 101.2 | 101.2 | 101.2 | 101.1 | 101.1 | 101.0 | 101.0 |
| 100° | 129.8 | 129.8 | 129.8 | 129.7 | 129.5 | 129.3 | 129.0 | 128.8 |
| 102.5° | 161.0 | 161.2 | 161.4 | 161.3 | 161.1 | 160.9 | 160.7 | 160.5 |
| 105° | 207.7 | 208.2 | 208.6 | 208.8 | 208.8 | 208.8 | 208.8 | 208.8 |
| 107.5° | 258.3 | 258.4 | 258.5 | 258.2 | 257.2 | 256.3 | 255.3 | 254.3 |
| 110° | 292.6 | 292.6 | 292.6 | 292.2 | 291.6 | 291.0 | 290.3 | 289.7 |



TEST NUMBER: P331364-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 326.9 | 326.4 | 325.9 | 325.4 | 325.0 | 324.5 | 324.0 | 323.6 |
| 115° | 379.6 | 379.4 | 379.2 | 378.7 | 378.1 | 377.5 | 376.8 | 376.3 |
| 117.5° | 430.6 | 430.1 | 429.5 | 429.0 | 428.4 | 427.7 | 427.1 | 426.5 |
| 120° | 464.7 | 464.7 | 464.7 | 464.4 | 463.7 | 463.1 | 462.5 | 461.8 |
| 122.5° | 499.7 | 499.3 | 498.8 | 498.3 | 497.9 | 497.4 | 496.9 | 496.4 |
| 125° | 551.9 | 551.2 | 550.5 | 550.2 | 550.0 | 549.7 | 549.5 | 549.3 |
| 127.5° | 602.4 | 601.6 | 600.9 | 600.1 | 599.5 | 598.8 | 598.1 | 597.5 |
| 130° | 636.9 | 636.5 | 636.0 | 635.5 | 634.6 | 633.8 | 632.9 | 632.1 |
| 132.5° | 670.5 | 669.6 | 668.6 | 667.9 | 667.2 | 666.6 | 665.9 | 665.2 |
| 135° | 720.1 | 719.9 | 719.6 | 719.3 | 718.6 | 718.0 | 717.4 | 716.7 |
| 137.5° | 767.6 | 767.4 | 767.2 | 766.8 | 765.9 | 765.1 | 764.2 | 763.4 |
| 140° | 799.6 | 799.6 | 799.6 | 799.1 | 798.2 | 797.4 | 796.6 | 795.8 |
| 142.5° | 828.5 | 828.6 | 828.8 | 828.5 | 827.6 | 826.8 | 826.0 | 825.1 |
| 145° | 872.3 | 872.6 | 872.8 | 872.5 | 871.7 | 870.8 | 870.0 | 869.1 |
| 147.5° | 910.9 | 911.3 | 911.8 | 911.6 | 910.9 | 910.0 | 909.3 | 908.4 |
| 150° | 935.3 | 935.9 | 936.5 | 936.5 | 935.9 | 935.3 | 934.6 | 934.1 |
| 152.5° | 959.7 | 960.5 | 961.3 | 961.3 | 960.5 | 959.7 | 958.9 | 958.1 |
| 155° | 990.7 | 991.7 | 992.8 | 993.0 | 992.3 | 991.7 | 991.1 | 990.4 |
| 157.5° | 1019.3 | 1020.7 | 1022.1 | 1022.3 | 1021.3 | 1020.3 | 1019.3 | 1018.3 |
| 160° | 1036.2 | 1037.5 | 1038.8 | 1039.0 | 1038.1 | 1037.3 | 1036.4 | 1035.6 |
| 162.5° | 1051.6 | 1053.0 | 1054.4 | 1054.7 | 1053.7 | 1052.6 | 1051.7 | 1050.7 |
| 165° | 1071.5 | 1072.9 | 1074.4 | 1074.6 | 1073.6 | 1072.5 | 1071.5 | 1070.4 |
| 167.5° | 1087.8 | 1089.3 | 1090.7 | 1090.9 | 1089.9 | 1088.7 | 1087.7 | 1086.6 |
| 170° | 1096.8 | 1098.3 | 1099.8 | 1099.9 | 1098.6 | 1097.4 | 1096.1 | 1094.9 |
| 172.5° | 1103.6 | 1105.1 | 1106.5 | 1106.6 | 1105.4 | 1104.2 | 1102.9 | 1101.6 |
| 175° | 1111.0 | 1112.4 | 1113.9 | 1114.0 | 1112.8 | 1111.4 | 1110.2 | 1109.0 |
| 177.5° | 1114.4 | 1115.4 | 1116.3 | 1116.3 | 1115.4 | 1114.4 | 1113.3 | 1112.4 |
| 180° | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 |

(END OF REPORT)