

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: P331691-830

Luminaire Tested: **SA2XXRDIP-C675D725U830-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331691-830
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: SA2XXRDIP-C675D725U830-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 725 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

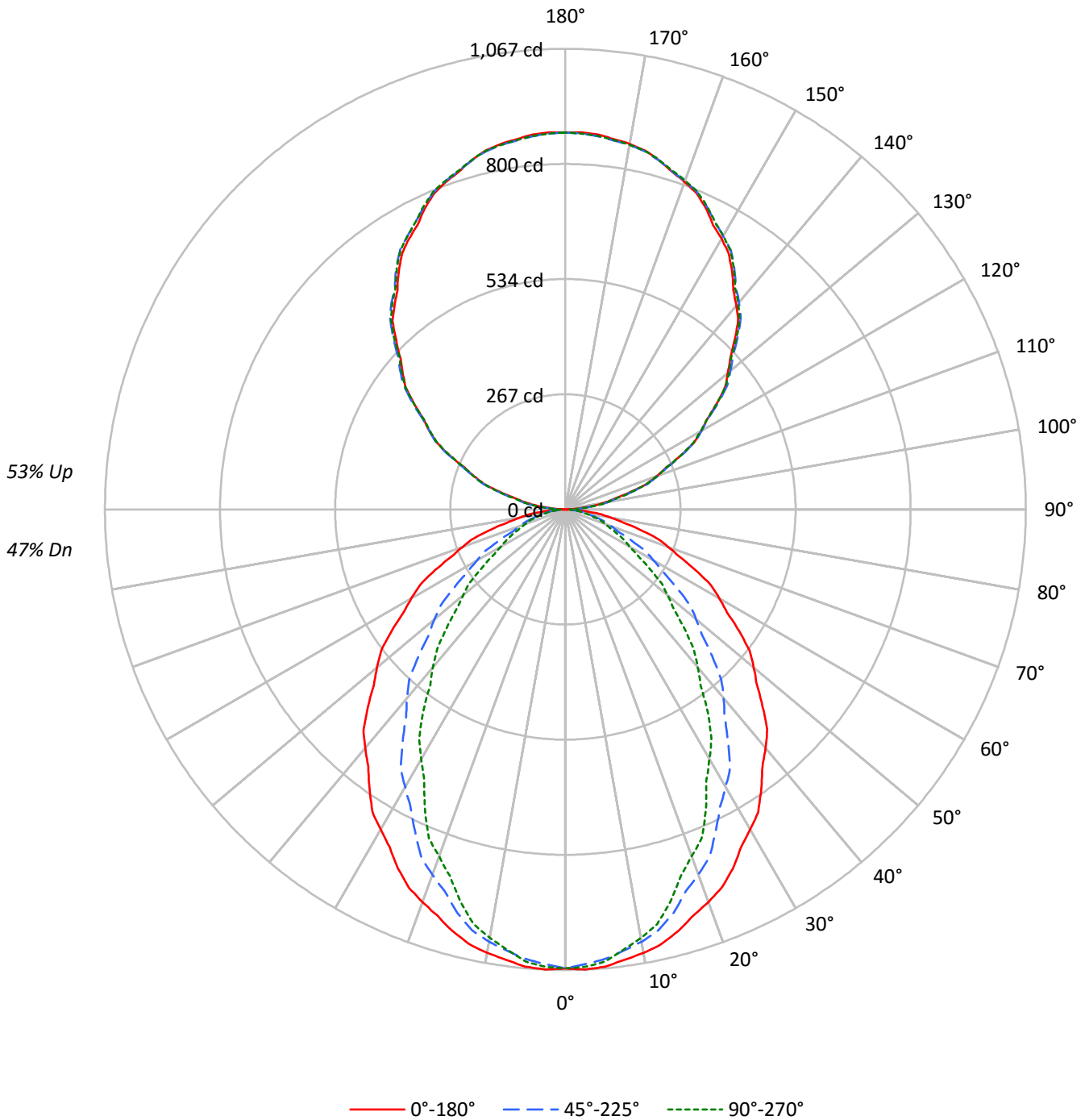
Lumens per Lamp: N/A
Luminaire Lumens: 4631.4 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 45.9
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: P331691-830
CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331691-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-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 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 | 47 |
| 1 | 98 | 93 | 90 | 86 | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 48 | 47 | 46 | 41 |
| 2 | 89 | 82 | 76 | 71 | 82 | 76 | 71 | 66 | 64 | 60 | 57 | 53 | 50 | 48 | 43 | 41 | 40 | 35 |
| 3 | 82 | 73 | 66 | 60 | 75 | 67 | 61 | 56 | 57 | 52 | 48 | 47 | 44 | 41 | 38 | 36 | 34 | 30 |
| 4 | 75 | 65 | 57 | 51 | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 42 | 39 | 36 | 35 | 32 | 30 | 26 |
| 5 | 69 | 58 | 50 | 44 | 63 | 54 | 47 | 41 | 46 | 40 | 36 | 38 | 34 | 31 | 31 | 29 | 26 | 23 |
| 6 | 64 | 52 | 44 | 38 | 58 | 48 | 41 | 36 | 41 | 36 | 32 | 35 | 31 | 28 | 29 | 26 | 23 | 20 |
| 7 | 59 | 47 | 39 | 34 | 54 | 44 | 37 | 32 | 38 | 32 | 28 | 32 | 28 | 25 | 26 | 23 | 21 | 18 |
| 8 | 55 | 43 | 35 | 30 | 50 | 40 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 24 | 21 | 19 | 17 |
| 9 | 51 | 39 | 32 | 27 | 47 | 37 | 30 | 25 | 32 | 26 | 23 | 27 | 23 | 20 | 22 | 19 | 17 | 15 |
| 10 | 48 | 36 | 29 | 24 | 44 | 34 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 18 | 21 | 18 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17166 | 17166 | 17166 |
| 5° | 17232 | 16951 | 17045 |
| 10° | 17100 | 16674 | 16531 |
| 15° | 16904 | 16181 | 15714 |
| 20° | 16632 | 15474 | 14698 |
| 25° | 16352 | 14672 | 13714 |
| 30° | 15966 | 13848 | 12450 |
| 35° | 15589 | 12952 | 11341 |
| 40° | 15209 | 12026 | 10058 |
| 45° | 14764 | 10985 | 8896 |
| 50° | 14307 | 9934 | 7759 |
| 55° | 13841 | 8802 | 6663 |
| 60° | 13298 | 7611 | 5532 |
| 65° | 12684 | 6395 | 5039 |
| 70° | 11948 | 5268 | 4631 |
| 75° | 11042 | 4803 | 4323 |
| 80° | 9754 | 4296 | 3933 |
| 85° | 7669 | 3390 | 3390 |



TEST NUMBER: P331691-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.5 | 2.1 |
| 10°-20° | 273.3 | 5.9 |
| 20°-30° | 383.7 | 8.3 |
| 30°-40° | 418.4 | 9.0 |
| 40°-50° | 384.7 | 8.3 |
| 50°-60° | 302.2 | 6.5 |
| 60°-70° | 197.0 | 4.3 |
| 70°-80° | 101.6 | 2.2 |
| 80°-90° | 29.8 | 0.6 |
| 90°-100° | 55.3 | 1.2 |
| 100°-110° | 171.8 | 3.7 |
| 110°-120° | 293.7 | 6.3 |
| 120°-130° | 386.2 | 8.3 |
| 130°-140° | 433.5 | 9.4 |
| 140°-150° | 425.0 | 9.2 |
| 150°-160° | 356.5 | 7.7 |
| 160°-170° | 236.5 | 5.1 |
| 170°-180° | 82.6 | 1.8 |
| 0°-30° | 756.5 | 16.3 |
| 0°-40° | 1174.9 | 25.4 |
| 0°-60° | 1861.8 | 40.2 |
| 0°-90° | 2190.3 | 47.3 |
| 90°-120° | 520.8 | 11.2 |
| 90°-150° | 1765.5 | 38.1 |
| 90°-180° | 2441.0 | 52.7 |
| 0°-180° | 4631.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1063 | 1063 | 1063 | 1063 | 1063 | |
| 5° | 1063 | 1058 | 1046 | 1054 | 1052 | 101 |
| 15° | 1011 | 999 | 968 | 950 | 940 | 285 |
| 25° | 918 | 885 | 824 | 786 | 770 | 422 |
| 35° | 791 | 740 | 657 | 599 | 575 | 495 |
| 45° | 647 | 580 | 481 | 415 | 390 | 499 |
| 55° | 492 | 415 | 313 | 257 | 237 | 439 |
| 65° | 332 | 254 | 167 | 136 | 132 | 329 |
| 75° | 177 | 112 | 77 | 71 | 69 | 187 |
| 85° | 41 | 22 | 18 | 18 | 18 | 49 |
| 90° | 1 | 10 | 26 | 24 | 25 | 4 |
| 95° | 38 | 45 | 47 | 47 | 46 | 44 |
| 105° | 158 | 161 | 162 | 163 | 164 | 167 |
| 115° | 295 | 299 | 298 | 297 | 295 | 291 |
| 125° | 429 | 435 | 433 | 431 | 430 | 383 |
| 135° | 555 | 562 | 564 | 564 | 561 | 428 |
| 145° | 673 | 678 | 683 | 683 | 681 | 421 |
| 155° | 770 | 772 | 774 | 778 | 776 | 354 |
| 165° | 838 | 837 | 837 | 842 | 838 | 236 |
| 175° | 872 | 869 | 868 | 872 | 869 | 83 |
| 180° | 873 | 873 | 873 | 873 | 873 | |



TEST NUMBER: P331691-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 |
| 2.5° | 1067.1 | 1066.2 | 1065.4 | 1064.5 | 1063.7 | 1062.2 | 1060.4 | 1058.5 | 1056.7 | 1054.8 | 1056.5 |
| 5° | 1063.2 | 1062.2 | 1061.1 | 1060.0 | 1058.9 | 1057.1 | 1054.2 | 1051.5 | 1048.7 | 1045.9 | 1047.8 |
| 7.5° | 1052.3 | 1050.9 | 1049.6 | 1048.3 | 1047.0 | 1044.6 | 1041.4 | 1038.2 | 1034.9 | 1031.7 | 1032.2 |
| 10° | 1043.0 | 1041.5 | 1040.0 | 1038.5 | 1037.0 | 1034.2 | 1029.8 | 1025.6 | 1021.3 | 1017.0 | 1016.4 |
| 12.5° | 1031.4 | 1029.6 | 1027.7 | 1026.0 | 1024.1 | 1020.5 | 1015.0 | 1009.6 | 1004.0 | 998.5 | 997.4 |
| 15° | 1011.3 | 1008.9 | 1006.5 | 1004.2 | 1001.8 | 997.0 | 989.8 | 982.5 | 975.2 | 968.0 | 963.9 |
| 17.5° | 986.5 | 982.9 | 979.3 | 975.6 | 972.0 | 965.6 | 956.3 | 947.0 | 937.6 | 928.3 | 923.5 |
| 20° | 968.0 | 963.7 | 959.4 | 955.2 | 950.8 | 943.4 | 932.6 | 922.0 | 911.3 | 900.6 | 895.2 |
| 22.5° | 947.9 | 943.2 | 938.4 | 933.6 | 928.8 | 920.4 | 908.3 | 896.3 | 884.2 | 872.1 | 865.3 |
| 25° | 917.9 | 911.1 | 904.3 | 897.4 | 890.6 | 880.1 | 866.0 | 851.9 | 837.7 | 823.6 | 814.8 |
| 27.5° | 881.7 | 874.3 | 866.9 | 859.4 | 852.0 | 840.3 | 824.4 | 808.5 | 792.6 | 776.7 | 766.5 |
| 30° | 856.4 | 848.2 | 840.1 | 832.0 | 823.9 | 811.2 | 794.1 | 777.0 | 759.9 | 742.8 | 731.9 |
| 32.5° | 831.7 | 822.2 | 812.8 | 803.2 | 793.7 | 780.2 | 762.8 | 745.4 | 727.9 | 710.5 | 698.0 |
| 35° | 790.9 | 780.0 | 769.1 | 758.2 | 747.3 | 732.4 | 713.6 | 694.8 | 676.0 | 657.1 | 643.7 |
| 37.5° | 750.2 | 738.1 | 726.1 | 714.2 | 702.2 | 686.2 | 666.2 | 646.1 | 626.0 | 606.0 | 591.2 |
| 40° | 721.6 | 708.8 | 696.0 | 683.2 | 670.3 | 653.6 | 632.8 | 612.1 | 591.4 | 570.6 | 555.4 |
| 42.5° | 692.4 | 678.9 | 665.3 | 651.9 | 638.4 | 620.9 | 599.5 | 578.1 | 556.6 | 535.2 | 519.4 |
| 45° | 646.6 | 632.3 | 617.9 | 603.6 | 589.3 | 570.9 | 548.5 | 526.0 | 503.5 | 481.1 | 465.9 |
| 47.5° | 601.9 | 586.7 | 571.6 | 556.4 | 541.2 | 522.1 | 498.9 | 475.7 | 452.5 | 429.3 | 414.2 |
| 50° | 569.6 | 554.4 | 539.2 | 524.1 | 508.9 | 489.6 | 466.0 | 442.5 | 419.0 | 395.5 | 380.7 |
| 52.5° | 538.1 | 522.2 | 506.3 | 490.5 | 474.6 | 455.2 | 432.2 | 409.2 | 386.2 | 363.2 | 348.9 |
| 55° | 491.7 | 475.0 | 458.4 | 441.7 | 425.0 | 405.1 | 382.0 | 358.9 | 335.8 | 312.7 | 299.9 |
| 57.5° | 444.1 | 427.1 | 409.9 | 392.9 | 375.7 | 356.1 | 333.8 | 311.7 | 289.5 | 267.3 | 255.5 |
| 60° | 411.8 | 394.7 | 377.6 | 360.5 | 343.4 | 323.9 | 301.8 | 279.7 | 257.8 | 235.7 | 224.8 |
| 62.5° | 380.2 | 363.2 | 346.0 | 328.9 | 311.8 | 292.8 | 271.8 | 250.8 | 229.8 | 208.8 | 198.4 |
| 65° | 332.0 | 314.6 | 297.3 | 280.0 | 262.7 | 244.4 | 225.2 | 205.9 | 186.6 | 167.4 | 160.1 |
| 67.5° | 285.4 | 268.2 | 251.0 | 233.8 | 216.6 | 199.3 | 182.0 | 164.8 | 147.4 | 130.1 | 126.8 |
| 70° | 253.1 | 236.4 | 219.7 | 203.0 | 186.3 | 170.6 | 155.9 | 141.1 | 126.4 | 111.6 | 109.4 |
| 72.5° | 222.3 | 206.2 | 190.3 | 174.3 | 158.3 | 144.4 | 132.5 | 120.6 | 108.9 | 97.0 | 95.2 |
| 75° | 177.0 | 162.1 | 147.1 | 132.1 | 117.2 | 106.0 | 98.8 | 91.5 | 84.3 | 77.0 | 75.5 |
| 77.5° | 132.6 | 119.4 | 106.3 | 93.2 | 80.1 | 71.7 | 68.2 | 64.8 | 61.3 | 57.8 | 56.8 |
| 80° | 104.9 | 94.0 | 83.0 | 72.2 | 61.3 | 54.8 | 52.6 | 50.4 | 48.4 | 46.2 | 45.3 |
| 82.5° | 79.5 | 71.0 | 62.5 | 53.9 | 45.4 | 40.4 | 39.0 | 37.5 | 36.1 | 34.7 | 34.1 |
| 85° | 41.4 | 36.9 | 32.4 | 27.9 | 23.4 | 20.8 | 20.2 | 19.6 | 18.9 | 18.3 | 18.3 |
| 87.5° | 12.4 | 11.5 | 10.6 | 9.5 | 8.6 | 8.4 | 9.1 | 9.9 | 10.6 | 11.3 | 11.1 |
| 90° | 0.8 | 2.7 | 4.7 | 6.6 | 8.6 | 11.4 | 15.0 | 18.6 | 22.1 | 25.8 | 25.4 |
| 92.5° | 13.1 | 14.5 | 16.0 | 17.4 | 18.9 | 20.0 | 20.8 | 21.7 | 22.6 | 23.5 | 23.5 |
| 95° | 38.3 | 40.0 | 41.6 | 43.3 | 44.9 | 45.8 | 46.2 | 46.5 | 46.8 | 47.1 | 47.1 |
| 97.5° | 70.0 | 71.4 | 72.9 | 74.3 | 75.8 | 76.8 | 77.4 | 78.0 | 78.6 | 79.3 | 79.3 |
| 100° | 93.6 | 94.9 | 96.1 | 97.5 | 98.8 | 99.7 | 100.2 | 100.7 | 101.1 | 101.7 | 101.7 |
| 102.5° | 118.3 | 119.3 | 120.5 | 121.5 | 122.5 | 123.4 | 123.9 | 124.6 | 125.2 | 125.8 | 125.9 |
| 105° | 158.4 | 158.9 | 159.4 | 159.9 | 160.3 | 160.8 | 161.1 | 161.5 | 161.7 | 162.1 | 162.4 |
| 107.5° | 198.8 | 199.5 | 200.2 | 201.0 | 201.6 | 202.0 | 202.0 | 202.0 | 202.0 | 202.0 | 202.2 |
| 110° | 224.7 | 225.6 | 226.7 | 227.6 | 228.7 | 229.1 | 229.1 | 229.1 | 229.1 | 229.1 | 229.1 |



TEST NUMBER: P331691-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 253.0 | 254.0 | 255.0 | 255.9 | 256.9 | 257.3 | 257.2 | 257.1 | 256.9 | 256.8 | 256.5 |
| 115° | 294.7 | 295.7 | 296.6 | 297.7 | 298.6 | 299.0 | 298.6 | 298.3 | 297.9 | 297.7 | 297.5 |
| 117.5° | 336.2 | 337.5 | 338.8 | 340.2 | 341.5 | 341.7 | 340.7 | 339.9 | 338.9 | 338.0 | 337.6 |
| 120° | 363.9 | 365.2 | 366.6 | 367.9 | 369.2 | 369.2 | 367.9 | 366.6 | 365.2 | 363.9 | 363.9 |
| 122.5° | 389.3 | 390.9 | 392.5 | 394.0 | 395.6 | 395.9 | 395.0 | 394.1 | 393.1 | 392.2 | 391.8 |
| 125° | 428.8 | 430.3 | 431.7 | 433.2 | 434.7 | 435.2 | 434.7 | 434.1 | 433.7 | 433.2 | 432.7 |
| 127.5° | 467.2 | 469.1 | 471.0 | 472.9 | 474.7 | 475.3 | 474.8 | 474.2 | 473.5 | 473.0 | 472.4 |
| 130° | 491.4 | 493.5 | 495.7 | 497.8 | 499.9 | 500.8 | 500.5 | 500.1 | 499.8 | 499.5 | 499.2 |
| 132.5° | 518.5 | 520.3 | 522.0 | 523.7 | 525.5 | 526.3 | 526.4 | 526.5 | 526.5 | 526.6 | 525.9 |
| 135° | 554.8 | 556.6 | 558.4 | 560.2 | 561.9 | 563.0 | 563.4 | 563.6 | 564.0 | 564.3 | 564.2 |
| 137.5° | 593.0 | 594.4 | 595.9 | 597.4 | 598.8 | 599.7 | 600.2 | 600.6 | 601.1 | 601.4 | 601.3 |
| 140° | 616.0 | 617.4 | 618.9 | 620.3 | 621.8 | 622.9 | 623.8 | 624.6 | 625.4 | 626.2 | 626.2 |
| 142.5° | 639.5 | 640.9 | 642.4 | 643.9 | 645.4 | 646.4 | 647.0 | 647.5 | 648.1 | 648.7 | 648.8 |
| 145° | 673.4 | 674.5 | 675.7 | 676.8 | 678.0 | 679.0 | 680.0 | 681.0 | 681.9 | 683.0 | 683.2 |
| 147.5° | 703.6 | 704.9 | 706.3 | 707.7 | 709.1 | 710.1 | 710.8 | 711.4 | 712.1 | 712.8 | 713.0 |
| 150° | 724.2 | 725.2 | 726.1 | 727.2 | 728.1 | 729.0 | 729.6 | 730.3 | 730.9 | 731.6 | 732.1 |
| 152.5° | 742.4 | 743.5 | 744.4 | 745.5 | 746.4 | 747.2 | 748.1 | 748.9 | 749.6 | 750.5 | 751.0 |
| 155° | 769.9 | 770.3 | 770.9 | 771.4 | 771.8 | 772.3 | 772.8 | 773.4 | 773.8 | 774.3 | 775.1 |
| 157.5° | 793.3 | 793.6 | 794.0 | 794.3 | 794.7 | 794.9 | 795.2 | 795.5 | 795.8 | 796.1 | 797.2 |
| 160° | 807.5 | 807.8 | 808.1 | 808.4 | 808.8 | 809.0 | 809.2 | 809.4 | 809.5 | 809.6 | 810.7 |
| 162.5° | 820.4 | 820.5 | 820.6 | 820.6 | 820.7 | 820.8 | 821.0 | 821.1 | 821.3 | 821.4 | 822.6 |
| 165° | 837.6 | 837.5 | 837.4 | 837.2 | 837.0 | 836.9 | 836.9 | 836.9 | 836.9 | 836.9 | 838.1 |
| 167.5° | 852.1 | 851.6 | 851.1 | 850.6 | 850.2 | 849.9 | 849.9 | 849.8 | 849.8 | 849.7 | 850.9 |
| 170° | 859.8 | 859.3 | 858.8 | 858.3 | 857.8 | 857.4 | 857.3 | 857.1 | 857.0 | 856.8 | 858.0 |
| 172.5° | 865.1 | 864.6 | 864.1 | 863.6 | 863.1 | 862.8 | 862.6 | 862.4 | 862.3 | 862.1 | 863.3 |
| 175° | 871.6 | 871.1 | 870.5 | 870.1 | 869.6 | 869.2 | 868.8 | 868.6 | 868.2 | 867.9 | 869.0 |
| 177.5° | 874.2 | 873.8 | 873.5 | 873.0 | 872.6 | 872.3 | 872.0 | 871.8 | 871.5 | 871.3 | 872.0 |
| 180° | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 |



TEST NUMBER: P331691-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 | 1063.2 |
| 2.5° | 1058.2 | 1059.9 | 1061.6 | 1062.2 | 1062.0 | 1061.6 | 1061.3 | 1060.9 |
| 5° | 1049.7 | 1051.7 | 1053.6 | 1054.2 | 1053.6 | 1052.9 | 1052.3 | 1051.7 |
| 7.5° | 1032.7 | 1033.3 | 1033.9 | 1033.6 | 1032.5 | 1031.4 | 1030.3 | 1029.2 |
| 10° | 1015.8 | 1015.1 | 1014.5 | 1013.5 | 1012.2 | 1011.0 | 1009.7 | 1008.3 |
| 12.5° | 996.3 | 995.1 | 993.9 | 992.3 | 990.1 | 988.1 | 985.9 | 983.7 |
| 15° | 959.9 | 955.7 | 951.7 | 948.6 | 946.5 | 944.3 | 942.2 | 940.1 |
| 17.5° | 918.7 | 913.8 | 909.0 | 904.7 | 901.1 | 897.4 | 893.7 | 890.0 |
| 20° | 889.9 | 884.6 | 879.2 | 874.2 | 869.5 | 864.8 | 860.1 | 855.4 |
| 22.5° | 858.4 | 851.5 | 844.6 | 839.4 | 835.8 | 832.4 | 828.9 | 825.4 |
| 25° | 806.1 | 797.3 | 788.5 | 782.6 | 779.4 | 776.2 | 773.0 | 769.8 |
| 27.5° | 756.2 | 746.0 | 735.8 | 728.1 | 723.0 | 717.9 | 712.8 | 707.8 |
| 30° | 721.0 | 710.1 | 699.2 | 690.9 | 685.0 | 679.3 | 673.5 | 667.8 |
| 32.5° | 685.6 | 673.2 | 660.7 | 651.8 | 646.3 | 640.9 | 635.5 | 630.1 |
| 35° | 630.3 | 616.8 | 603.3 | 594.2 | 589.5 | 584.8 | 580.1 | 575.4 |
| 37.5° | 576.3 | 561.5 | 546.7 | 536.5 | 531.1 | 525.8 | 520.4 | 515.0 |
| 40° | 540.2 | 525.0 | 509.8 | 499.5 | 493.9 | 488.3 | 482.8 | 477.2 |
| 42.5° | 503.8 | 488.0 | 472.4 | 461.8 | 456.5 | 451.1 | 445.7 | 440.3 |
| 45° | 450.7 | 435.5 | 420.4 | 410.2 | 405.1 | 399.9 | 394.8 | 389.6 |
| 47.5° | 399.2 | 384.1 | 368.9 | 359.1 | 354.4 | 349.8 | 345.1 | 340.4 |
| 50° | 366.0 | 351.2 | 336.5 | 326.8 | 322.3 | 317.8 | 313.4 | 308.9 |
| 52.5° | 334.7 | 320.4 | 306.1 | 297.0 | 292.8 | 288.7 | 284.6 | 280.4 |
| 55° | 287.1 | 274.2 | 261.4 | 253.0 | 248.9 | 244.8 | 240.7 | 236.7 |
| 57.5° | 243.7 | 232.1 | 220.3 | 212.6 | 209.2 | 205.9 | 202.4 | 199.0 |
| 60° | 214.0 | 203.0 | 192.1 | 184.9 | 181.5 | 178.1 | 174.7 | 171.3 |
| 62.5° | 188.0 | 177.6 | 167.2 | 161.0 | 158.9 | 156.9 | 154.9 | 152.8 |
| 65° | 152.9 | 145.6 | 138.4 | 134.4 | 133.7 | 133.1 | 132.4 | 131.9 |
| 67.5° | 123.4 | 120.1 | 116.8 | 114.7 | 114.0 | 113.4 | 112.7 | 112.0 |
| 70° | 107.4 | 105.2 | 103.0 | 101.6 | 100.7 | 99.8 | 99.0 | 98.1 |
| 72.5° | 93.4 | 91.6 | 89.8 | 88.7 | 88.1 | 87.7 | 87.1 | 86.6 |
| 75° | 74.0 | 72.5 | 71.0 | 70.1 | 69.9 | 69.7 | 69.5 | 69.3 |
| 77.5° | 56.0 | 55.1 | 54.3 | 53.7 | 53.3 | 53.1 | 52.7 | 52.3 |
| 80° | 44.5 | 43.6 | 42.8 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 |
| 82.5° | 33.6 | 33.1 | 32.6 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 |
| 85° | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 |
| 87.5° | 10.8 | 10.7 | 10.4 | 10.3 | 10.3 | 10.4 | 10.4 | 10.4 |
| 90° | 25.2 | 24.8 | 24.5 | 24.4 | 24.6 | 24.7 | 24.9 | 25.1 |
| 92.5° | 23.6 | 23.7 | 23.7 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 |
| 95° | 47.1 | 47.1 | 47.1 | 47.0 | 46.7 | 46.4 | 46.0 | 45.7 |
| 97.5° | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.2 | 79.2 | 79.1 |
| 100° | 101.7 | 101.7 | 101.7 | 101.6 | 101.4 | 101.2 | 101.1 | 100.9 |
| 102.5° | 126.1 | 126.2 | 126.4 | 126.3 | 126.2 | 126.0 | 125.8 | 125.6 |
| 105° | 162.8 | 163.1 | 163.4 | 163.5 | 163.5 | 163.5 | 163.5 | 163.5 |
| 107.5° | 202.3 | 202.4 | 202.6 | 202.3 | 201.5 | 200.8 | 200.0 | 199.3 |
| 110° | 229.1 | 229.1 | 229.1 | 228.8 | 228.4 | 227.9 | 227.4 | 226.9 |



TEST NUMBER: P331691-830

CATALOG NUMBER: SA2XXRDIP-C675D725U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 256.0 | 255.6 | 255.2 | 254.9 | 254.5 | 254.1 | 253.8 | 253.4 |
| 115° | 297.3 | 297.2 | 297.0 | 296.6 | 296.1 | 295.7 | 295.2 | 294.7 |
| 117.5° | 337.2 | 336.9 | 336.4 | 336.0 | 335.5 | 335.0 | 334.5 | 334.0 |
| 120° | 363.9 | 363.9 | 363.9 | 363.7 | 363.2 | 362.7 | 362.2 | 361.7 |
| 122.5° | 391.4 | 391.1 | 390.7 | 390.3 | 389.9 | 389.6 | 389.2 | 388.9 |
| 125° | 432.3 | 431.7 | 431.2 | 430.9 | 430.7 | 430.6 | 430.5 | 430.3 |
| 127.5° | 471.8 | 471.2 | 470.6 | 470.0 | 469.6 | 469.0 | 468.5 | 468.0 |
| 130° | 498.9 | 498.5 | 498.2 | 497.7 | 497.0 | 496.4 | 495.8 | 495.1 |
| 132.5° | 525.2 | 524.4 | 523.8 | 523.1 | 522.5 | 522.1 | 521.5 | 521.0 |
| 135° | 564.0 | 563.8 | 563.6 | 563.4 | 562.9 | 562.4 | 561.8 | 561.4 |
| 137.5° | 601.2 | 601.1 | 601.0 | 600.6 | 599.9 | 599.3 | 598.6 | 597.9 |
| 140° | 626.2 | 626.2 | 626.2 | 625.8 | 625.3 | 624.6 | 624.0 | 623.3 |
| 142.5° | 648.8 | 649.0 | 649.1 | 648.8 | 648.2 | 647.5 | 647.0 | 646.3 |
| 145° | 683.2 | 683.4 | 683.6 | 683.3 | 682.7 | 682.0 | 681.4 | 680.7 |
| 147.5° | 713.4 | 713.8 | 714.2 | 714.1 | 713.4 | 712.8 | 712.2 | 711.5 |
| 150° | 732.5 | 733.0 | 733.6 | 733.6 | 733.0 | 732.5 | 732.1 | 731.6 |
| 152.5° | 751.7 | 752.3 | 752.9 | 752.9 | 752.3 | 751.7 | 751.0 | 750.5 |
| 155° | 775.9 | 776.7 | 777.6 | 777.8 | 777.2 | 776.7 | 776.3 | 775.8 |
| 157.5° | 798.3 | 799.5 | 800.6 | 800.7 | 799.9 | 799.2 | 798.3 | 797.6 |
| 160° | 811.6 | 812.7 | 813.6 | 813.8 | 813.1 | 812.5 | 811.8 | 811.2 |
| 162.5° | 823.7 | 824.8 | 826.0 | 826.0 | 825.3 | 824.5 | 823.7 | 822.9 |
| 165° | 839.2 | 840.4 | 841.5 | 841.7 | 840.8 | 840.0 | 839.2 | 838.4 |
| 167.5° | 852.1 | 853.2 | 854.3 | 854.5 | 853.7 | 852.8 | 852.0 | 851.1 |
| 170° | 859.1 | 860.3 | 861.4 | 861.5 | 860.5 | 859.5 | 858.6 | 857.5 |
| 172.5° | 864.4 | 865.5 | 866.7 | 866.8 | 865.8 | 864.8 | 863.8 | 862.9 |
| 175° | 870.2 | 871.3 | 872.4 | 872.5 | 871.6 | 870.5 | 869.6 | 868.6 |
| 177.5° | 872.8 | 873.6 | 874.4 | 874.4 | 873.6 | 872.8 | 872.0 | 871.3 |
| 180° | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 | 873.0 |

(END OF REPORT)