

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: P331433-830

Luminaire Tested: **SA2XXDIP-C1005D530U830-4F0-1E-UDD-D1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331433-830  
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-C1005D530U830-4F0-1E-UDD-D1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

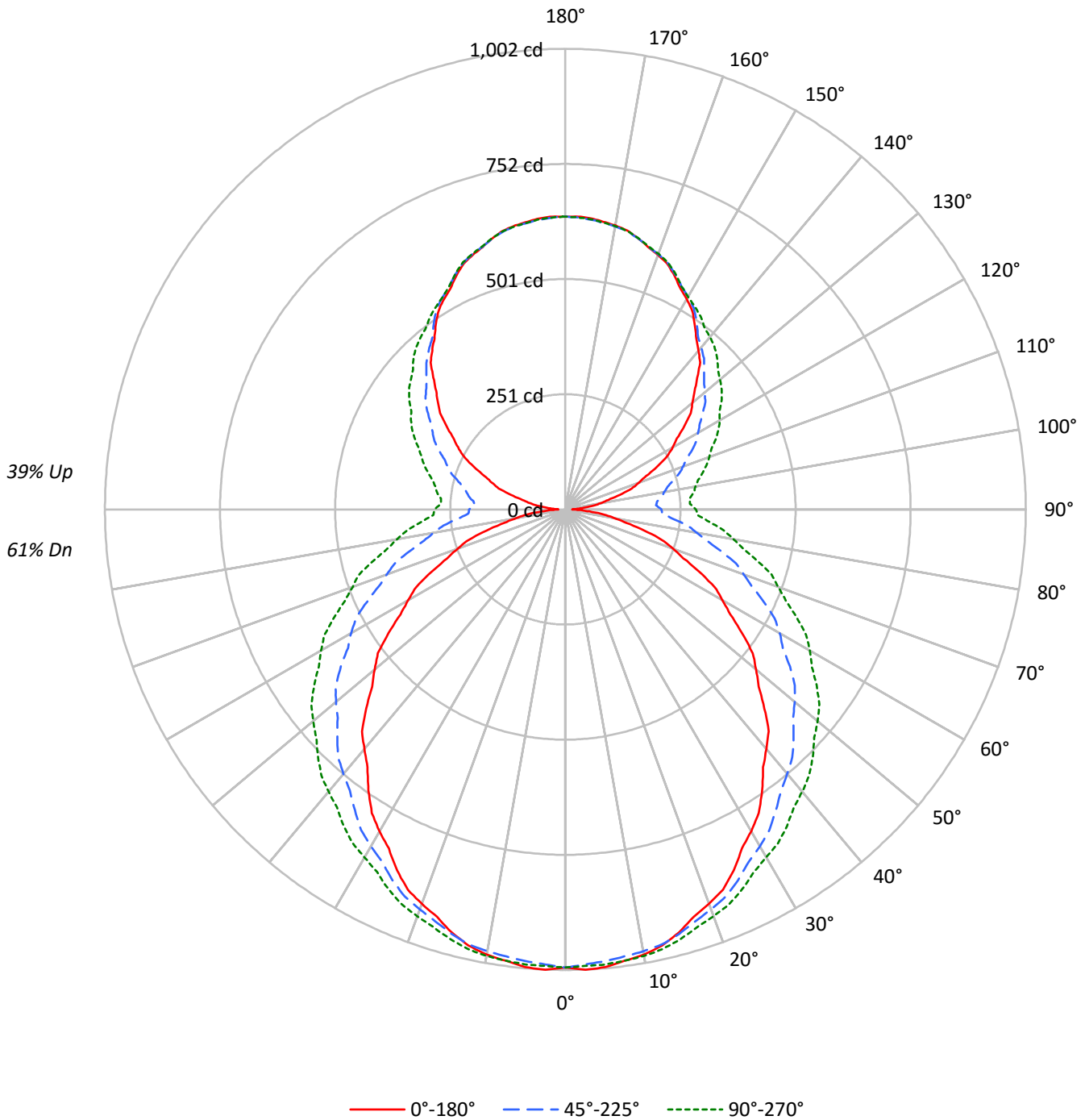
Lumens per Lamp: N/A  
Luminaire Lumens: 5585.9 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 55.1  
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: P331433-830  
CATALOG NUMBER: SA2XXDIP-C1005D530U830-4F0-1E-UDD-D1

### Luminous Intensity Polar Plot





TEST NUMBER: P331433-830

CATALOG NUMBER: SA2XXDIP-C1005D530U830-4F0-1E-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   | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 89 | 89 | 89 | 77 | 77 | 77 | 66 | 66 | 66 | 61 |
| 1   | 98  | 93  | 88  | 84  | 92  | 87  | 83  | 79  | 76 | 72 | 70 | 65 | 63 | 60 | 55 | 54 | 52 | 47 |
| 2   | 89  | 80  | 73  | 67  | 82  | 75  | 69  | 64  | 65 | 60 | 56 | 56 | 52 | 49 | 48 | 45 | 42 | 38 |
| 3   | 81  | 70  | 62  | 55  | 75  | 65  | 58  | 52  | 57 | 51 | 46 | 49 | 44 | 41 | 42 | 38 | 35 | 31 |
| 4   | 73  | 62  | 53  | 46  | 68  | 58  | 50  | 44  | 50 | 44 | 39 | 43 | 38 | 34 | 37 | 33 | 30 | 26 |
| 5   | 67  | 55  | 46  | 39  | 62  | 51  | 43  | 37  | 45 | 38 | 33 | 39 | 34 | 30 | 33 | 29 | 26 | 23 |
| 6   | 62  | 49  | 40  | 34  | 57  | 46  | 38  | 32  | 40 | 34 | 29 | 35 | 30 | 26 | 30 | 26 | 22 | 20 |
| 7   | 57  | 44  | 36  | 30  | 53  | 41  | 34  | 28  | 36 | 30 | 25 | 32 | 26 | 23 | 27 | 23 | 20 | 17 |
| 8   | 53  | 40  | 32  | 26  | 49  | 38  | 30  | 25  | 33 | 27 | 22 | 29 | 24 | 20 | 25 | 21 | 18 | 15 |
| 9   | 49  | 37  | 29  | 23  | 46  | 34  | 27  | 22  | 30 | 24 | 20 | 27 | 22 | 18 | 23 | 19 | 16 | 14 |
| 10  | 46  | 34  | 26  | 21  | 43  | 32  | 25  | 20  | 28 | 22 | 18 | 25 | 20 | 16 | 21 | 17 | 14 | 12 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16091 | 16091 | 16091 |
| 5°  | 16172 | 15491 | 15432 |
| 10° | 16069 | 15033 | 14865 |
| 15° | 15848 | 14548 | 14266 |
| 20° | 15567 | 14030 | 13691 |
| 25° | 15292 | 13528 | 13167 |
| 30° | 14902 | 13015 | 12643 |
| 35° | 14508 | 12517 | 12274 |
| 40° | 14092 | 12094 | 11903 |
| 45° | 13700 | 11715 | 11587 |
| 50° | 13277 | 11373 | 11276 |
| 55° | 12834 | 11004 | 10959 |
| 60° | 12292 | 10623 | 10624 |
| 65° | 11728 | 10173 | 10227 |
| 70° | 11096 | 9693  | 9797  |
| 75° | 10286 | 9222  | 9401  |
| 80° | 9006  | 8739  | 9001  |
| 85° | 7780  | 8321  | 8687  |



TEST NUMBER: P331433-830

CATALOG NUMBER: SA2XXDIP-C1005D530U830-4F0-1E-UDD-D1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.4   | 1.7       |
| 10°-20°   | 270.8  | 4.8       |
| 20°-30°   | 410.4  | 7.3       |
| 30°-40°   | 499.9  | 8.9       |
| 40°-50°   | 537.8  | 9.6       |
| 50°-60°   | 522.2  | 9.3       |
| 60°-70°   | 456.0  | 8.2       |
| 70°-80°   | 351.0  | 6.3       |
| 80°-90°   | 238.1  | 4.3       |
| 90°-100°  | 202.7  | 3.6       |
| 100°-110° | 243.9  | 4.4       |
| 110°-120° | 292.5  | 5.2       |
| 120°-130° | 325.4  | 5.8       |
| 130°-140° | 334.6  | 6.0       |
| 140°-150° | 313.3  | 5.6       |
| 150°-160° | 260.1  | 4.7       |
| 160°-170° | 172.5  | 3.1       |
| 170°-180° | 60.3   | 1.1       |
| 0°-30°    | 775.7  | 13.9      |
| 0°-40°    | 1275.5 | 22.8      |
| 0°-60°    | 2335.5 | 41.8      |
| 0°-90°    | 3380.7 | 60.5      |
| 90°-120°  | 739.1  | 13.2      |
| 90°-150°  | 1712.3 | 30.7      |
| 90°-180°  | 2205.0 | 39.5      |
| 0°-180°   | 5585.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|-----|-------|-----|------|
| 0°   | 997  | 997   | 997 | 997   | 997 |      |
| 5°   | 1000 | 995   | 987 | 995   | 994 | 95   |
| 15°  | 953  | 956   | 956 | 968   | 968 | 268  |
| 25°  | 867  | 877   | 890 | 906   | 911 | 398  |
| 35°  | 747  | 772   | 799 | 829   | 841 | 467  |
| 45°  | 612  | 652   | 702 | 745   | 761 | 473  |
| 55°  | 470  | 523   | 596 | 647   | 667 | 420  |
| 65°  | 321  | 392   | 477 | 534   | 555 | 318  |
| 75°  | 178  | 259   | 351 | 411   | 432 | 188  |
| 85°  | 52   | 142   | 234 | 292   | 315 | 56   |
| 90°  | 15   | 106   | 210 | 264   | 284 | 11   |
| 95°  | 40   | 114   | 200 | 253   | 272 | 41   |
| 105° | 123  | 168   | 242 | 292   | 310 | 130  |
| 115° | 221  | 242   | 304 | 345   | 361 | 218  |
| 125° | 316  | 323   | 365 | 401   | 415 | 282  |
| 135° | 406  | 413   | 428 | 456   | 467 | 314  |
| 145° | 491  | 495   | 498 | 507   | 513 | 307  |
| 155° | 562  | 563   | 565 | 567   | 566 | 258  |
| 165° | 611  | 611   | 611 | 614   | 612 | 172  |
| 175° | 636  | 634   | 633 | 637   | 634 | 60   |
| 180° | 637  | 637   | 637 | 637   | 637 |      |



TEST NUMBER: P331433-830

CATALOG NUMBER: SA2XXDIP-C1005D530U830-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 996.6  | 996.6  | 996.6  | 996.6  | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 |
| 2.5°   | 1002.5 | 1001.7 | 1000.9 | 1000.1 | 999.4 | 998.1 | 996.3 | 994.5 | 992.7 | 990.9 | 992.2 |
| 5°     | 999.6  | 998.6  | 997.7  | 996.6  | 995.7 | 994.3 | 992.4 | 990.4 | 988.5 | 986.6 | 988.5 |
| 7.5°   | 990.6  | 990.0  | 989.3  | 988.7  | 988.1 | 987.0 | 985.5 | 984.0 | 982.6 | 981.1 | 983.4 |
| 10°    | 983.7  | 983.1  | 982.4  | 981.8  | 981.1 | 980.3 | 979.4 | 978.4 | 977.4 | 976.5 | 979.0 |
| 12.5°  | 972.1  | 972.2  | 972.4  | 972.5  | 972.6 | 972.3 | 971.7 | 970.9 | 970.3 | 969.5 | 972.1 |
| 15°    | 953.4  | 954.0  | 954.6  | 955.3  | 955.9 | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 | 959.1 |
| 17.5°  | 929.1  | 930.5  | 931.8  | 933.1  | 934.4 | 935.7 | 936.7 | 937.7 | 938.8 | 939.8 | 942.8 |
| 20°    | 912.9  | 914.5  | 916.2  | 917.8  | 919.4 | 920.8 | 922.1 | 923.3 | 924.6 | 926.0 | 929.4 |
| 22.5°  | 895.6  | 897.4  | 899.3  | 901.2  | 903.1 | 904.8 | 906.6 | 908.4 | 910.2 | 912.0 | 915.6 |
| 25°    | 866.7  | 868.9  | 871.2  | 873.5  | 875.7 | 878.3 | 881.1 | 884.0 | 886.9 | 889.8 | 893.6 |
| 27.5°  | 832.0  | 835.7  | 839.3  | 843.0  | 846.7 | 850.2 | 853.6 | 857.0 | 860.4 | 863.8 | 868.6 |
| 30°    | 808.9  | 813.0  | 817.3  | 821.4  | 825.6 | 829.8 | 834.0 | 838.1 | 842.3 | 846.5 | 851.6 |
| 32.5°  | 783.4  | 788.2  | 792.9  | 797.6  | 802.2 | 807.0 | 812.0 | 816.9 | 821.9 | 826.8 | 832.7 |
| 35°    | 746.8  | 752.2  | 757.7  | 763.2  | 768.6 | 774.4 | 780.5 | 786.6 | 792.7 | 798.8 | 805.9 |
| 37.5°  | 706.9  | 713.2  | 719.5  | 725.8  | 732.1 | 739.1 | 747.1 | 755.0 | 762.9 | 770.8 | 778.6 |
| 40°    | 680.3  | 687.4  | 694.5  | 701.5  | 708.6 | 716.4 | 725.1 | 733.8 | 742.4 | 751.1 | 759.5 |
| 42.5°  | 655.0  | 661.9  | 669.0  | 676.1  | 683.2 | 691.6 | 701.6 | 711.6 | 721.5 | 731.5 | 740.6 |
| 45°    | 612.5  | 621.1  | 629.8  | 638.5  | 647.1 | 657.0 | 668.4 | 679.6 | 690.8 | 702.0 | 712.0 |
| 47.5°  | 570.6  | 580.0  | 589.5  | 598.9  | 608.3 | 619.6 | 632.8 | 645.9 | 659.1 | 672.2 | 682.7 |
| 50°    | 541.7  | 551.7  | 561.6  | 571.6  | 581.5 | 593.7 | 608.1 | 622.5 | 637.0 | 651.5 | 662.4 |
| 52.5°  | 514.0  | 524.4  | 534.9  | 545.4  | 555.8 | 568.6 | 583.8 | 599.1 | 614.3 | 629.5 | 640.6 |
| 55°    | 469.5  | 481.0  | 492.6  | 504.2  | 515.7 | 529.8 | 546.5 | 563.2 | 579.9 | 596.5 | 608.1 |
| 57.5°  | 425.6  | 438.6  | 451.6  | 464.7  | 477.7 | 492.7 | 509.7 | 526.7 | 543.8 | 560.7 | 573.2 |
| 60°    | 394.4  | 408.1  | 422.0  | 435.7  | 449.6 | 465.6 | 483.9 | 502.2 | 520.5 | 538.8 | 551.0 |
| 62.5°  | 366.6  | 380.9  | 395.2  | 409.5  | 423.9 | 440.2 | 458.5 | 476.7 | 495.1 | 513.4 | 526.3 |
| 65°    | 320.7  | 336.4  | 352.1  | 367.9  | 383.6 | 401.0 | 419.9 | 438.8 | 457.7 | 476.6 | 489.8 |
| 67.5°  | 278.5  | 294.9  | 311.3  | 327.8  | 344.2 | 362.1 | 381.5 | 401.0 | 420.3 | 439.7 | 453.0 |
| 70°    | 248.5  | 265.1  | 281.8  | 298.5  | 315.2 | 333.5 | 353.5 | 373.3 | 393.2 | 413.1 | 426.9 |
| 72.5°  | 220.7  | 237.9  | 255.1  | 272.3  | 289.5 | 308.2 | 328.4 | 348.6 | 368.7 | 388.9 | 402.4 |
| 75°    | 177.7  | 195.7  | 213.6  | 231.6  | 249.6 | 268.8 | 289.4 | 309.9 | 330.5 | 351.0 | 364.8 |
| 77.5°  | 136.1  | 154.9  | 173.7  | 192.5  | 211.3 | 231.1 | 252.0 | 272.9 | 293.7 | 314.6 | 328.4 |
| 80°    | 108.3  | 127.9  | 147.5  | 167.1  | 186.6 | 206.9 | 227.7 | 248.6 | 269.5 | 290.3 | 303.8 |
| 82.5°  | 85.2   | 104.5  | 123.9  | 143.2  | 162.5 | 182.8 | 203.9 | 225.0 | 246.1 | 267.2 | 280.7 |
| 85°    | 52.0   | 71.9   | 91.8   | 111.7  | 131.6 | 151.8 | 172.4 | 192.9 | 213.5 | 234.0 | 247.5 |
| 87.5°  | 28.5   | 47.9   | 67.3   | 86.7   | 106.1 | 126.3 | 147.4 | 168.4 | 189.5 | 210.7 | 223.7 |
| 90°    | 15.0   | 35.1   | 55.0   | 75.1   | 95.2  | 116.8 | 140.0 | 163.2 | 186.3 | 209.5 | 222.1 |
| 92.5°  | 22.8   | 41.3   | 59.7   | 78.0   | 96.4  | 115.7 | 136.2 | 156.6 | 177.0 | 197.4 | 210.0 |
| 95°    | 39.5   | 55.8   | 72.1   | 88.3   | 104.6 | 122.5 | 142.0 | 161.6 | 181.0 | 200.5 | 212.7 |
| 97.5°  | 61.2   | 75.7   | 90.1   | 104.6  | 119.0 | 135.7 | 154.7 | 173.6 | 192.6 | 211.5 | 223.4 |
| 100°   | 78.3   | 91.2   | 104.1  | 116.9  | 129.7 | 145.2 | 163.6 | 181.9 | 200.3 | 218.6 | 230.5 |
| 102.5° | 95.3   | 106.9  | 118.5  | 130.1  | 141.8 | 156.5 | 174.4 | 192.4 | 210.3 | 228.2 | 239.9 |
| 105°   | 122.8  | 132.4  | 142.1  | 151.7  | 161.5 | 174.7 | 191.7 | 208.6 | 225.6 | 242.5 | 253.9 |
| 107.5° | 151.9  | 159.9  | 167.9  | 175.9  | 183.8 | 195.9 | 211.8 | 227.8 | 243.7 | 259.8 | 270.6 |
| 110°   | 169.8  | 176.8  | 184.0  | 191.1  | 198.2 | 209.7 | 225.5 | 241.1 | 256.8 | 272.6 | 282.9 |



TEST NUMBER: P331433-830

CATALOG NUMBER: SA2XXDIP-C1005D530U830-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 190.4 | 196.4 | 202.6 | 208.7 | 214.8 | 225.3 | 240.2 | 255.0 | 269.8 | 284.7 | 294.7 |
| 115°   | 220.7 | 225.0 | 229.2 | 233.5 | 237.8 | 246.9 | 261.2 | 275.4 | 289.6 | 303.8 | 313.3 |
| 117.5° | 249.7 | 252.9 | 256.2 | 259.5 | 262.7 | 270.7 | 283.3 | 296.1 | 308.8 | 321.4 | 330.6 |
| 120°   | 269.8 | 272.1 | 274.4 | 276.5 | 278.8 | 285.9 | 297.7 | 309.6 | 321.5 | 333.4 | 342.4 |
| 122.5° | 288.3 | 290.0 | 291.6 | 293.3 | 295.0 | 301.5 | 312.9 | 324.3 | 335.7 | 347.1 | 355.5 |
| 125°   | 315.7 | 316.8 | 317.8 | 319.0 | 320.0 | 325.5 | 335.5 | 345.3 | 355.2 | 365.1 | 373.4 |
| 127.5° | 343.7 | 344.8 | 345.8 | 346.9 | 347.9 | 352.3 | 360.2 | 368.1 | 375.9 | 383.8 | 391.3 |
| 130°   | 361.4 | 362.6 | 363.8 | 365.0 | 366.3 | 370.1 | 376.6 | 383.1 | 389.6 | 396.2 | 403.7 |
| 132.5° | 381.2 | 382.1 | 383.0 | 384.0 | 384.9 | 388.0 | 393.3 | 398.5 | 403.8 | 409.1 | 415.9 |
| 135°   | 406.1 | 407.5 | 408.8 | 410.1 | 411.4 | 413.8 | 417.3 | 420.7 | 424.1 | 427.6 | 434.2 |
| 137.5° | 434.0 | 435.0 | 436.0 | 437.1 | 438.1 | 439.4 | 441.1 | 442.9 | 444.6 | 446.3 | 452.1 |
| 140°   | 450.8 | 451.6 | 452.3 | 453.1 | 453.8 | 454.8 | 456.0 | 457.2 | 458.5 | 459.8 | 464.9 |
| 142.5° | 468.0 | 468.7 | 469.5 | 470.2 | 471.0 | 471.6 | 472.2 | 472.7 | 473.3 | 473.8 | 478.0 |
| 145°   | 491.3 | 492.1 | 492.9 | 493.8 | 494.6 | 495.4 | 496.1 | 496.8 | 497.6 | 498.2 | 500.3 |
| 147.5° | 513.3 | 514.3 | 515.3 | 516.3 | 517.3 | 518.0 | 518.5 | 519.0 | 519.4 | 520.0 | 520.5 |
| 150°   | 528.4 | 529.0 | 529.8 | 530.5 | 531.2 | 531.8 | 532.3 | 532.7 | 533.2 | 533.8 | 534.0 |
| 152.5° | 541.7 | 542.4 | 543.1 | 543.8 | 544.5 | 545.2 | 545.7 | 546.3 | 546.9 | 547.5 | 547.9 |
| 155°   | 561.7 | 562.0 | 562.4 | 562.7 | 563.1 | 563.5 | 563.8 | 564.2 | 564.5 | 564.9 | 565.5 |
| 157.5° | 578.7 | 579.0 | 579.2 | 579.5 | 579.8 | 579.9 | 580.1 | 580.4 | 580.6 | 580.8 | 581.6 |
| 160°   | 589.1 | 589.3 | 589.6 | 589.7 | 590.0 | 590.2 | 590.3 | 590.4 | 590.6 | 590.7 | 591.4 |
| 162.5° | 598.5 | 598.6 | 598.6 | 598.7 | 598.7 | 598.8 | 598.9 | 599.1 | 599.2 | 599.3 | 600.1 |
| 165°   | 611.1 | 611.0 | 610.9 | 610.8 | 610.7 | 610.6 | 610.6 | 610.6 | 610.6 | 610.6 | 611.4 |
| 167.5° | 621.6 | 621.3 | 620.9 | 620.6 | 620.2 | 620.0 | 620.0 | 620.0 | 619.9 | 619.9 | 620.8 |
| 170°   | 627.3 | 626.9 | 626.5 | 626.1 | 625.8 | 625.6 | 625.5 | 625.3 | 625.2 | 625.1 | 625.9 |
| 172.5° | 631.1 | 630.7 | 630.4 | 630.0 | 629.7 | 629.4 | 629.3 | 629.2 | 629.1 | 629.0 | 629.8 |
| 175°   | 635.8 | 635.5 | 635.1 | 634.8 | 634.4 | 634.1 | 633.9 | 633.7 | 633.4 | 633.1 | 634.0 |
| 177.5° | 637.8 | 637.4 | 637.2 | 636.9 | 636.6 | 636.4 | 636.2 | 636.0 | 635.8 | 635.7 | 636.2 |
| 180°   | 636.9 | 636.9 | 636.9 | 636.9 | 636.9 | 636.9 | 636.9 | 636.9 | 636.9 | 636.9 | 636.9 |



TEST NUMBER: P331433-830

CATALOG NUMBER: SA2XXDIP-C1005D530U830-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 | 996.6 |
| 2.5°   | 993.4 | 994.8 | 996.1 | 996.5 | 995.9 | 995.4 | 994.9 | 994.4 |
| 5°     | 990.4 | 992.4 | 994.3 | 995.0 | 994.8 | 994.5 | 994.1 | 993.8 |
| 7.5°   | 985.7 | 988.1 | 990.3 | 991.4 | 991.0 | 990.7 | 990.3 | 990.0 |
| 10°    | 981.6 | 984.2 | 986.7 | 987.9 | 987.5 | 987.2 | 986.9 | 986.6 |
| 12.5°  | 974.7 | 977.2 | 979.8 | 980.9 | 980.6 | 980.2 | 980.0 | 979.7 |
| 15°    | 962.1 | 964.9 | 967.8 | 969.1 | 968.7 | 968.5 | 968.1 | 967.8 |
| 17.5°  | 945.8 | 948.9 | 951.9 | 953.4 | 953.4 | 953.4 | 953.4 | 953.4 |
| 20°    | 932.9 | 936.5 | 940.0 | 941.8 | 941.8 | 941.8 | 941.8 | 941.8 |
| 22.5°  | 919.1 | 922.7 | 926.1 | 928.2 | 928.7 | 929.3 | 929.7 | 930.3 |
| 25°    | 897.5 | 901.4 | 905.2 | 907.6 | 908.6 | 909.6 | 910.5 | 911.4 |
| 27.5°  | 873.5 | 878.4 | 883.4 | 886.1 | 886.8 | 887.5 | 888.3 | 888.9 |
| 30°    | 856.8 | 861.9 | 867.0 | 870.1 | 871.0 | 871.9 | 873.0 | 873.9 |
| 32.5°  | 838.7 | 844.5 | 850.5 | 854.2 | 856.0 | 857.7 | 859.5 | 861.2 |
| 35°    | 812.9 | 820.0 | 827.1 | 831.7 | 834.0 | 836.2 | 838.5 | 840.7 |
| 37.5°  | 786.5 | 794.3 | 802.1 | 807.2 | 809.5 | 812.0 | 814.4 | 816.7 |
| 40°    | 767.8 | 776.2 | 784.5 | 790.1 | 793.1 | 795.9 | 798.8 | 801.7 |
| 42.5°  | 749.7 | 758.8 | 768.0 | 773.9 | 776.8 | 779.8 | 782.6 | 785.5 |
| 45°    | 721.9 | 731.9 | 741.8 | 748.4 | 751.6 | 754.8 | 758.0 | 761.2 |
| 47.5°  | 693.1 | 703.4 | 713.9 | 720.9 | 724.3 | 727.9 | 731.4 | 735.0 |
| 50°    | 673.3 | 684.2 | 695.1 | 702.4 | 705.9 | 709.4 | 712.9 | 716.4 |
| 52.5°  | 651.9 | 663.0 | 674.2 | 681.6 | 685.4 | 689.3 | 693.1 | 696.8 |
| 55°    | 619.7 | 631.2 | 642.8 | 650.6 | 654.8 | 659.0 | 663.2 | 667.3 |
| 57.5°  | 585.7 | 598.1 | 610.6 | 618.9 | 623.1 | 627.4 | 631.6 | 635.8 |
| 60°    | 563.2 | 575.4 | 587.6 | 596.0 | 600.4 | 604.9 | 609.4 | 613.9 |
| 62.5°  | 539.3 | 552.2 | 565.2 | 573.8 | 578.1 | 582.3 | 586.5 | 590.8 |
| 65°    | 503.0 | 516.1 | 529.3 | 538.0 | 542.2 | 546.3 | 550.5 | 554.7 |
| 67.5°  | 466.3 | 479.6 | 492.9 | 501.7 | 506.1 | 510.4 | 514.8 | 519.2 |
| 70°    | 440.7 | 454.5 | 468.3 | 477.1 | 481.0 | 484.8 | 488.7 | 492.6 |
| 72.5°  | 415.9 | 429.5 | 443.0 | 452.1 | 456.8 | 461.4 | 466.0 | 470.6 |
| 75°    | 378.6 | 392.4 | 406.2 | 415.2 | 419.3 | 423.6 | 427.7 | 431.9 |
| 77.5°  | 342.0 | 355.8 | 369.6 | 378.7 | 383.1 | 387.7 | 392.2 | 396.6 |
| 80°    | 317.3 | 330.8 | 344.3 | 353.3 | 357.8 | 362.2 | 366.7 | 371.3 |
| 82.5°  | 294.2 | 307.6 | 321.1 | 330.0 | 334.2 | 338.5 | 342.7 | 346.9 |
| 85°    | 261.0 | 274.5 | 287.9 | 296.9 | 301.4 | 305.9 | 310.4 | 314.9 |
| 87.5°  | 236.7 | 249.8 | 262.8 | 271.4 | 275.5 | 279.7 | 283.8 | 287.9 |
| 90°    | 234.7 | 247.3 | 259.9 | 268.2 | 272.1 | 276.1 | 280.1 | 284.1 |
| 92.5°  | 222.6 | 235.3 | 247.9 | 256.2 | 260.0 | 263.9 | 267.8 | 271.6 |
| 95°    | 224.9 | 237.1 | 249.3 | 257.2 | 260.8 | 264.5 | 268.1 | 271.6 |
| 97.5°  | 235.3 | 247.1 | 259.0 | 266.8 | 270.6 | 274.4 | 278.1 | 281.9 |
| 100°   | 242.3 | 254.2 | 266.2 | 273.8 | 277.2 | 280.6 | 284.0 | 287.4 |
| 102.5° | 251.6 | 263.3 | 275.0 | 282.6 | 286.0 | 289.5 | 292.8 | 296.2 |
| 105°   | 265.4 | 276.9 | 288.3 | 295.9 | 299.4 | 302.9 | 306.4 | 310.0 |
| 107.5° | 281.5 | 292.4 | 303.3 | 310.2 | 313.2 | 316.1 | 319.1 | 322.2 |
| 110°   | 293.1 | 303.4 | 313.7 | 320.4 | 323.6 | 326.8 | 329.9 | 333.1 |





TEST NUMBER: P331433-830

CATALOG NUMBER: SA2XXDIP-C1005D530U830-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 304.7 | 314.7 | 324.7 | 331.3 | 334.6 | 337.8 | 341.1 | 344.4 |
| 115°   | 322.8 | 332.3 | 341.9 | 348.2 | 351.4 | 354.6 | 357.7 | 360.9 |
| 117.5° | 339.9 | 349.0 | 358.3 | 364.4 | 367.2 | 370.1 | 373.1 | 376.0 |
| 120°   | 351.4 | 360.3 | 369.4 | 375.4 | 378.6 | 381.8 | 384.9 | 388.1 |
| 122.5° | 364.0 | 372.4 | 380.9 | 386.4 | 389.3 | 392.0 | 394.7 | 397.5 |
| 125°   | 381.7 | 390.1 | 398.4 | 403.9 | 406.7 | 409.4 | 412.3 | 415.0 |
| 127.5° | 398.8 | 406.3 | 413.9 | 418.9 | 421.3 | 423.8 | 426.2 | 428.7 |
| 130°   | 411.1 | 418.6 | 426.0 | 430.8 | 432.9 | 435.0 | 437.1 | 439.2 |
| 132.5° | 422.9 | 429.8 | 436.7 | 441.3 | 443.5 | 445.6 | 447.8 | 450.1 |
| 135°   | 440.8 | 447.4 | 454.1 | 458.5 | 460.7 | 462.9 | 465.1 | 467.3 |
| 137.5° | 457.9 | 463.7 | 469.6 | 473.3 | 475.0 | 476.7 | 478.4 | 480.1 |
| 140°   | 470.0 | 475.1 | 480.3 | 483.6 | 485.0 | 486.4 | 488.0 | 489.4 |
| 142.5° | 482.2 | 486.4 | 490.6 | 493.3 | 494.5 | 495.7 | 496.9 | 498.0 |
| 145°   | 502.4 | 504.4 | 506.4 | 508.0 | 509.2 | 510.3 | 511.4 | 512.6 |
| 147.5° | 521.0 | 521.5 | 522.1 | 522.5 | 522.7 | 523.1 | 523.4 | 523.7 |
| 150°   | 534.4 | 534.8 | 535.2 | 535.2 | 534.8 | 534.4 | 534.0 | 533.8 |
| 152.5° | 548.4 | 548.8 | 549.3 | 549.3 | 548.8 | 548.4 | 547.9 | 547.5 |
| 155°   | 566.1 | 566.7 | 567.3 | 567.4 | 567.0 | 566.7 | 566.3 | 566.0 |
| 157.5° | 582.4 | 583.2 | 584.1 | 584.2 | 583.6 | 583.1 | 582.5 | 581.8 |
| 160°   | 592.1 | 592.9 | 593.5 | 593.7 | 593.2 | 592.8 | 592.2 | 591.7 |
| 162.5° | 600.9 | 601.7 | 602.6 | 602.7 | 602.1 | 601.5 | 601.0 | 600.4 |
| 165°   | 612.3 | 613.1 | 613.9 | 614.1 | 613.4 | 612.8 | 612.3 | 611.6 |
| 167.5° | 621.6 | 622.5 | 623.3 | 623.4 | 622.7 | 622.2 | 621.5 | 620.9 |
| 170°   | 626.8 | 627.6 | 628.4 | 628.5 | 627.7 | 627.1 | 626.3 | 625.7 |
| 172.5° | 630.7 | 631.5 | 632.3 | 632.4 | 631.7 | 630.9 | 630.2 | 629.5 |
| 175°   | 634.8 | 635.7 | 636.5 | 636.6 | 635.8 | 635.1 | 634.4 | 633.7 |
| 177.5° | 636.8 | 637.3 | 637.9 | 637.9 | 637.3 | 636.8 | 636.2 | 635.7 |
| 180°   | 636.9 | 636.9 | 636.9 | 636.9 | 636.9 | 636.9 | 636.9 | 636.9 |

(END OF REPORT)