

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: P331443-830

Luminaire Tested: **SA2XXDIP-C1005D725U830-4F0-1E-UDD-D4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331443-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C1005D725U830-4F0-1E-UDD-D4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

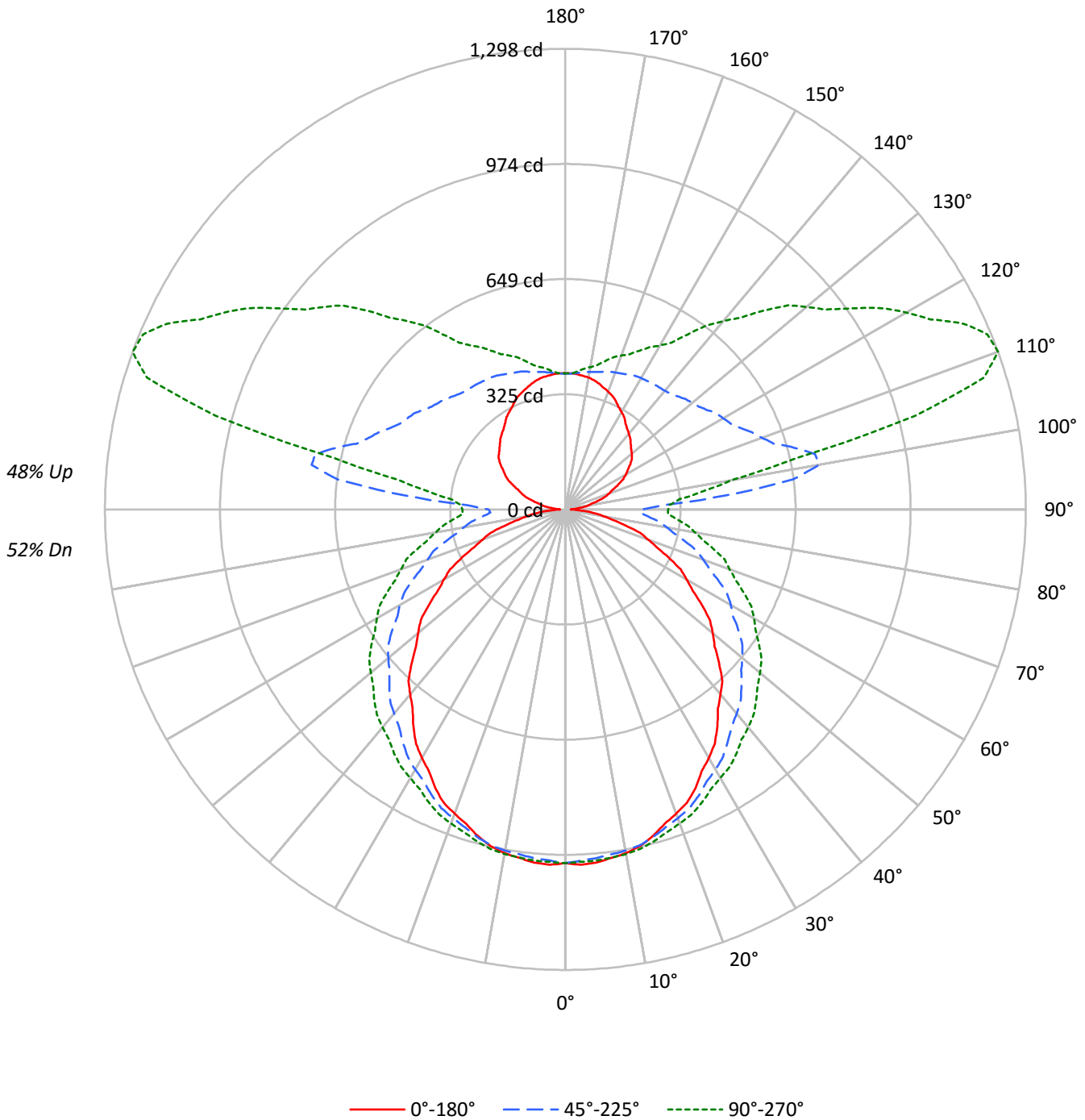
Lumens per Lamp: N/A  
Luminaire Lumens: 6471.9 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

Input Watts (W): 60.7  
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: P331443-830  
CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-D4

### Luminous Intensity Polar Plot





TEST NUMBER: P331443-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-D4

**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   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 58 | 58 | 58 | 52 |
| 1   | 97  | 92  | 87  | 83  | 89  | 85  | 81  | 77  | 72 | 69 | 66 | 60 | 58 | 56 | 49 | 47 | 46 | 41 |
| 2   | 87  | 79  | 72  | 67  | 80  | 73  | 67  | 62  | 62 | 57 | 54 | 52 | 48 | 45 | 42 | 40 | 38 | 33 |
| 3   | 79  | 69  | 61  | 55  | 73  | 64  | 57  | 51  | 54 | 49 | 44 | 45 | 41 | 38 | 37 | 34 | 31 | 27 |
| 4   | 72  | 61  | 52  | 46  | 66  | 56  | 49  | 43  | 48 | 42 | 37 | 40 | 35 | 32 | 33 | 29 | 27 | 23 |
| 5   | 66  | 54  | 45  | 39  | 61  | 50  | 42  | 37  | 43 | 37 | 32 | 36 | 31 | 27 | 29 | 26 | 23 | 20 |
| 6   | 61  | 48  | 40  | 34  | 56  | 45  | 37  | 32  | 38 | 32 | 28 | 32 | 27 | 24 | 26 | 23 | 20 | 17 |
| 7   | 56  | 43  | 35  | 29  | 52  | 40  | 33  | 28  | 35 | 29 | 24 | 29 | 24 | 21 | 24 | 20 | 18 | 15 |
| 8   | 52  | 39  | 31  | 26  | 48  | 37  | 29  | 24  | 31 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 16 | 13 |
| 9   | 49  | 36  | 28  | 23  | 45  | 33  | 26  | 22  | 29 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |
| 10  | 45  | 33  | 25  | 20  | 42  | 31  | 24  | 19  | 27 | 21 | 17 | 23 | 18 | 15 | 19 | 15 | 13 | 11 |

**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: P331443-830

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.4   | 1.5       |
| 10°-20°   | 270.8  | 4.2       |
| 20°-30°   | 410.4  | 6.3       |
| 30°-40°   | 499.9  | 7.7       |
| 40°-50°   | 537.8  | 8.3       |
| 50°-60°   | 522.2  | 8.1       |
| 60°-70°   | 456.0  | 7.0       |
| 70°-80°   | 351.0  | 5.4       |
| 80°-90°   | 239.0  | 3.7       |
| 90°-100°  | 315.5  | 4.9       |
| 100°-110° | 638.4  | 9.9       |
| 110°-120° | 630.5  | 9.7       |
| 120°-130° | 498.3  | 7.7       |
| 130°-140° | 383.4  | 5.9       |
| 140°-150° | 279.1  | 4.3       |
| 150°-160° | 193.9  | 3.0       |
| 160°-170° | 114.1  | 1.8       |
| 170°-180° | 37.1   | 0.6       |
| 0°-30°    | 775.7  | 12.0      |
| 0°-40°    | 1275.5 | 19.7      |
| 0°-60°    | 2335.5 | 36.1      |
| 0°-90°    | 3381.6 | 52.2      |
| 90°-120°  | 1584.4 | 24.5      |
| 90°-150°  | 2745.2 | 42.4      |
| 90°-180°  | 3090.0 | 47.7      |
| 0°-180°   | 6471.9 | 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   | 109   | 216 | 270   | 290  | 11   |
| 95°  | 37   | 144   | 455 | 328   | 322  | 36   |
| 105° | 97   | 187   | 670 | 1149  | 1021 | 104  |
| 115° | 164  | 224   | 544 | 1071  | 1238 | 162  |
| 125° | 224  | 267   | 488 | 850   | 988  | 199  |
| 135° | 261  | 312   | 450 | 687   | 792  | 202  |
| 145° | 296  | 340   | 432 | 545   | 602  | 186  |
| 155° | 337  | 364   | 419 | 474   | 493  | 155  |
| 165° | 367  | 378   | 402 | 426   | 432  | 103  |
| 175° | 382  | 383   | 386 | 391   | 390  | 36   |
| 180° | 383  | 383   | 383 | 383   | 383  |      |



TEST NUMBER: P331443-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-D4

**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   | 48.1   | 67.8   | 87.2   | 106.6 | 126.9 | 148.2 | 169.8 | 191.1 | 211.9 | 224.8 |
| 90°    | 15.2   | 36.0   | 57.6   | 77.7   | 97.7  | 119.5 | 143.7 | 169.5 | 194.4 | 215.7 | 227.8 |
| 92.5°  | 22.2   | 43.5   | 66.3   | 86.8   | 109.1 | 134.6 | 171.1 | 214.2 | 255.0 | 276.1 | 273.7 |
| 95°    | 37.3   | 55.4   | 77.9   | 99.5   | 126.4 | 161.3 | 214.4 | 297.7 | 402.6 | 455.0 | 431.0 |
| 97.5°  | 52.1   | 69.5   | 90.8   | 114.1  | 141.1 | 177.1 | 238.2 | 346.0 | 506.5 | 646.8 | 682.8 |
| 100°   | 66.8   | 81.0   | 99.4   | 123.1  | 149.7 | 185.3 | 242.3 | 350.2 | 527.3 | 726.5 | 844.5 |
| 102.5° | 79.3   | 91.7   | 109.2  | 131.9  | 158.0 | 192.7 | 246.4 | 343.7 | 508.5 | 721.3 | 899.8 |
| 105°   | 97.1   | 109.3  | 123.9  | 144.2  | 169.8 | 203.3 | 254.7 | 337.0 | 475.2 | 670.1 | 877.4 |
| 107.5° | 118.0  | 127.8  | 140.3  | 157.9  | 181.4 | 214.0 | 263.5 | 336.7 | 453.2 | 616.5 | 800.4 |
| 110°   | 131.0  | 140.4  | 151.3  | 167.2  | 189.2 | 221.6 | 269.8 | 338.5 | 444.1 | 589.6 | 752.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 144.0 | 152.3 | 162.8 | 177.1 | 197.4 | 229.5 | 275.7 | 340.8 | 437.3 | 568.4 | 716.0 |
| 115°   | 164.2 | 171.4 | 179.4 | 191.7 | 210.0 | 238.8 | 285.0 | 344.4 | 430.3 | 543.5 | 669.5 |
| 117.5° | 183.7 | 188.9 | 195.7 | 205.8 | 222.3 | 250.7 | 293.4 | 348.8 | 424.9 | 524.7 | 635.5 |
| 120°   | 196.6 | 200.9 | 206.6 | 214.5 | 230.5 | 258.2 | 299.7 | 352.4 | 422.0 | 513.7 | 616.2 |
| 122.5° | 209.1 | 211.9 | 216.8 | 224.5 | 239.8 | 267.3 | 306.3 | 355.2 | 419.9 | 504.4 | 599.0 |
| 125°   | 223.9 | 226.1 | 230.5 | 239.4 | 254.1 | 279.9 | 316.7 | 360.1 | 416.0 | 488.2 | 572.8 |
| 127.5° | 236.9 | 239.5 | 245.3 | 254.8 | 268.6 | 293.8 | 327.9 | 365.9 | 414.0 | 475.3 | 548.5 |
| 130°   | 244.6 | 247.1 | 254.2 | 264.2 | 278.6 | 302.5 | 335.0 | 369.8 | 413.3 | 467.2 | 532.3 |
| 132.5° | 251.7 | 254.9 | 262.5 | 273.1 | 288.0 | 311.1 | 340.9 | 373.5 | 412.6 | 459.7 | 518.1 |
| 135°   | 260.8 | 263.7 | 272.6 | 283.6 | 300.6 | 322.8 | 349.6 | 378.6 | 411.3 | 449.9 | 498.6 |
| 137.5° | 270.8 | 274.3 | 283.0 | 294.8 | 311.5 | 331.4 | 356.1 | 381.4 | 409.7 | 441.3 | 482.5 |
| 140°   | 278.5 | 281.1 | 289.6 | 301.0 | 317.0 | 336.3 | 359.0 | 382.5 | 408.2 | 436.1 | 473.0 |
| 142.5° | 286.2 | 288.1 | 296.1 | 307.6 | 322.9 | 340.7 | 362.4 | 384.7 | 408.2 | 433.9 | 465.4 |
| 145°   | 296.1 | 299.2 | 306.5 | 317.5 | 332.2 | 348.5 | 368.4 | 389.0 | 409.6 | 431.8 | 457.2 |
| 147.5° | 308.6 | 310.8 | 317.8 | 328.0 | 340.3 | 354.7 | 373.4 | 391.5 | 410.3 | 429.1 | 450.0 |
| 150°   | 316.8 | 319.1 | 324.9 | 334.5 | 345.5 | 358.8 | 375.8 | 392.7 | 409.6 | 427.3 | 445.0 |
| 152.5° | 325.1 | 326.1 | 332.0 | 340.4 | 350.8 | 363.0 | 378.1 | 393.3 | 408.5 | 424.4 | 440.9 |
| 155°   | 336.7 | 337.4 | 341.9 | 350.0 | 358.1 | 369.1 | 381.6 | 394.2 | 406.7 | 419.2 | 433.2 |
| 157.5° | 346.5 | 347.1 | 350.7 | 357.8 | 364.3 | 373.5 | 384.2 | 394.2 | 403.3 | 414.0 | 426.0 |
| 160°   | 352.9 | 353.6 | 356.6 | 362.5 | 368.4 | 376.5 | 385.3 | 394.2 | 401.5 | 410.4 | 420.8 |
| 162.5° | 359.4 | 358.9 | 361.9 | 366.6 | 371.9 | 378.2 | 386.0 | 393.6 | 399.8 | 407.5 | 415.9 |
| 165°   | 366.9 | 366.2 | 367.7 | 372.1 | 375.8 | 380.2 | 386.8 | 392.0 | 396.4 | 401.5 | 408.2 |
| 167.5° | 373.2 | 372.2 | 373.5 | 376.4 | 379.0 | 381.8 | 386.6 | 391.0 | 393.0 | 396.4 | 400.5 |
| 170°   | 377.2 | 375.8 | 376.5 | 378.7 | 380.2 | 382.4 | 386.1 | 389.7 | 391.2 | 393.4 | 396.4 |
| 172.5° | 379.6 | 378.7 | 378.2 | 380.5 | 381.4 | 383.0 | 385.5 | 388.0 | 388.9 | 389.9 | 392.3 |
| 175°   | 382.4 | 381.6 | 380.9 | 382.4 | 382.4 | 383.1 | 384.6 | 386.1 | 385.3 | 386.1 | 386.8 |
| 177.5° | 383.7 | 382.6 | 381.9 | 383.1 | 383.1 | 383.1 | 383.7 | 384.9 | 383.7 | 383.1 | 383.7 |
| 180°   | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 |



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**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°  | 237.8  | 250.5  | 263.9  | 272.7  | 276.8  | 280.9  | 285.0  | 289.2  |
| 90°    | 240.0  | 251.3  | 265.6  | 274.7  | 278.5  | 282.4  | 286.3  | 290.1  |
| 92.5°  | 269.7  | 273.1  | 279.6  | 283.1  | 286.4  | 287.9  | 292.4  | 295.0  |
| 95°    | 383.5  | 350.8  | 332.1  | 323.9  | 318.1  | 316.1  | 317.7  | 322.3  |
| 97.5°  | 627.9  | 557.9  | 490.0  | 444.7  | 413.2  | 398.9  | 391.9  | 389.6  |
| 100°   | 840.8  | 761.4  | 672.3  | 590.9  | 533.3  | 505.1  | 487.3  | 477.6  |
| 102.5° | 977.9  | 968.8  | 906.6  | 819.8  | 756.9  | 706.3  | 683.2  | 668.7  |
| 105°   | 1041.9 | 1136.4 | 1157.2 | 1140.3 | 1098.2 | 1055.9 | 1027.8 | 1021.1 |
| 107.5° | 973.7  | 1109.9 | 1197.3 | 1240.2 | 1249.4 | 1250.5 | 1247.6 | 1237.5 |
| 110°   | 918.0  | 1060.2 | 1164.8 | 1232.1 | 1267.3 | 1284.9 | 1295.0 | 1297.8 |





TEST NUMBER: P331443-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 866.3 | 1003.1 | 1114.3 | 1190.4 | 1238.0 | 1265.0 | 1281.0 | 1288.5 |
| 115°   | 800.7 | 923.8  | 1029.9 | 1112.4 | 1168.3 | 1205.7 | 1228.4 | 1238.5 |
| 117.5° | 748.3 | 857.3  | 954.4  | 1032.0 | 1088.5 | 1127.7 | 1151.1 | 1160.0 |
| 120°   | 720.2 | 820.6  | 907.7  | 981.0  | 1036.0 | 1074.2 | 1099.2 | 1110.0 |
| 122.5° | 696.9 | 789.3  | 872.0  | 938.5  | 987.8  | 1024.8 | 1046.8 | 1056.0 |
| 125°   | 661.8 | 746.3  | 819.8  | 880.9  | 926.5  | 957.3  | 978.6  | 987.5  |
| 127.5° | 627.1 | 703.7  | 772.9  | 829.2  | 869.3  | 898.4  | 917.1  | 924.6  |
| 130°   | 604.9 | 676.0  | 741.9  | 795.7  | 834.3  | 862.0  | 879.3  | 887.7  |
| 132.5° | 583.3 | 649.4  | 710.4  | 761.1  | 799.2  | 826.8  | 842.9  | 850.7  |
| 135°   | 553.3 | 608.6  | 663.9  | 709.9  | 744.1  | 771.0  | 786.8  | 792.4  |
| 137.5° | 527.4 | 574.0  | 618.5  | 658.5  | 689.6  | 712.7  | 726.5  | 733.1  |
| 140°   | 511.2 | 551.8  | 590.8  | 626.7  | 652.2  | 673.3  | 686.3  | 692.6  |
| 142.5° | 498.6 | 532.8  | 566.1  | 596.1  | 620.1  | 639.2  | 650.7  | 653.3  |
| 145°   | 482.0 | 508.3  | 533.0  | 556.2  | 575.4  | 589.6  | 598.5  | 602.4  |
| 147.5° | 469.7 | 489.1  | 507.2  | 523.3  | 538.7  | 549.5  | 555.3  | 557.3  |
| 150°   | 462.7 | 478.9  | 494.4  | 507.7  | 518.7  | 527.5  | 532.0  | 532.7  |
| 152.5° | 456.2 | 471.3  | 484.4  | 495.9  | 504.5  | 512.2  | 515.5  | 515.6  |
| 155°   | 447.2 | 459.0  | 470.0  | 478.2  | 486.3  | 491.4  | 494.4  | 492.9  |
| 157.5° | 436.8 | 446.7  | 455.9  | 462.2  | 468.0  | 472.3  | 473.6  | 473.6  |
| 160°   | 430.3 | 438.4  | 446.5  | 451.7  | 456.9  | 460.5  | 461.2  | 461.2  |
| 162.5° | 423.8 | 430.7  | 437.6  | 441.7  | 446.8  | 449.3  | 450.1  | 449.4  |
| 165°   | 414.1 | 419.2  | 424.4  | 427.3  | 430.3  | 433.2  | 433.2  | 432.5  |
| 167.5° | 404.8 | 408.8  | 412.3  | 415.0  | 416.3  | 417.9  | 417.7  | 416.9  |
| 170°   | 400.1 | 402.3  | 405.2  | 406.7  | 407.5  | 409.6  | 408.9  | 407.5  |
| 172.5° | 394.7 | 396.4  | 398.8  | 399.6  | 400.4  | 401.4  | 400.7  | 399.8  |
| 175°   | 389.0 | 389.7  | 390.5  | 391.2  | 391.2  | 392.0  | 391.2  | 389.7  |
| 177.5° | 384.9 | 384.9  | 385.5  | 385.5  | 385.5  | 385.5  | 384.9  | 383.7  |
| 180°   | 383.1 | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  |

(END OF REPORT)