

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: P331703-830

Luminaire Tested: **SA2XXRDIP-C675D1080U830-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331703-830  
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-C675D1080U830-4F0-1E-UDD-F1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5819.7 lumens  
Efficiency: N/A  
Efficacy: 102.3 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: Semi-Indirect

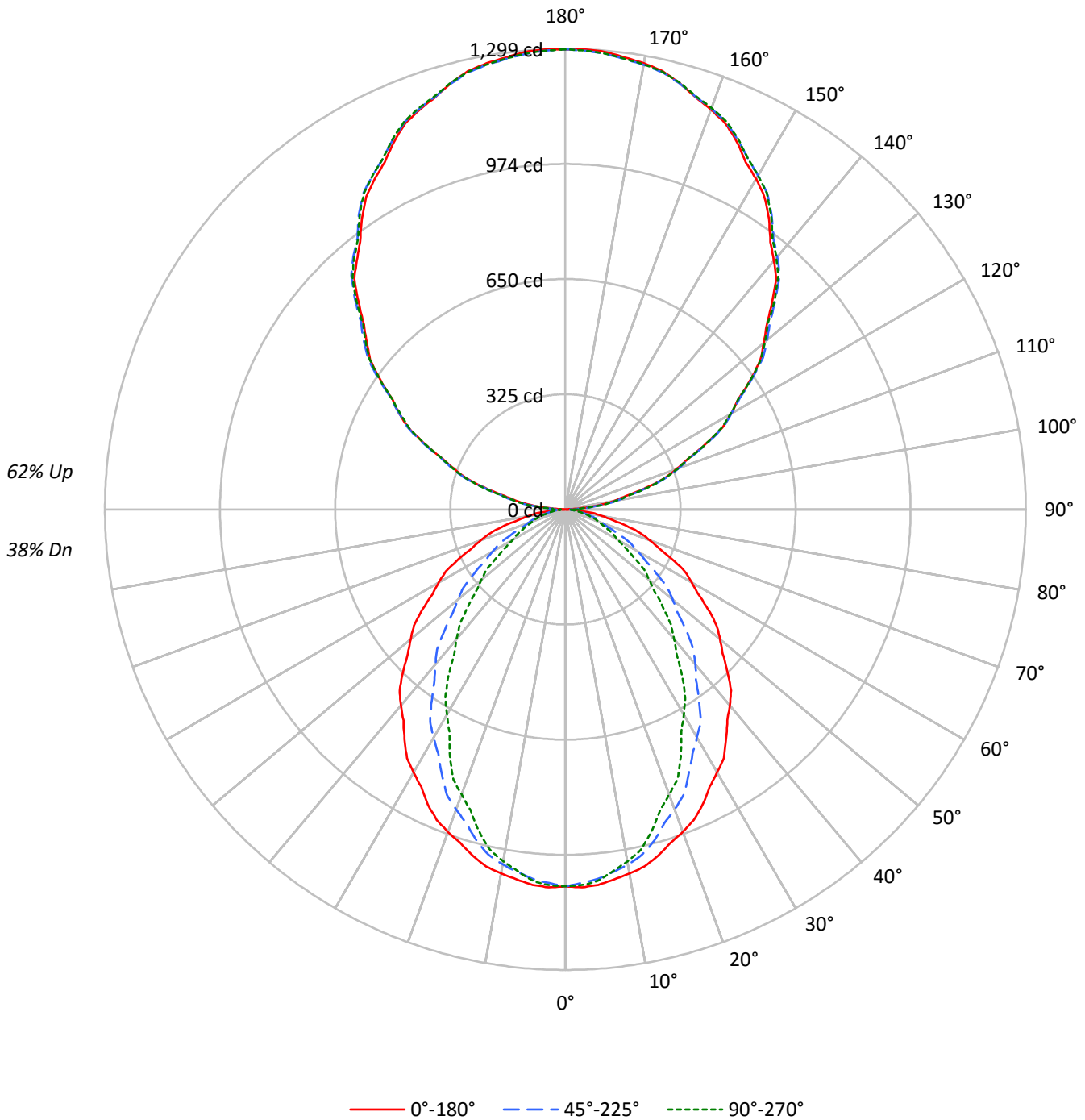
Input Watts (W): 56.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331703-830

CATALOG NUMBER: SA2XXRDIP-C675D1080U830-4F0-1E-UDD-F1

### Luminous Intensity Polar Plot





TEST NUMBER: P331703-830

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**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   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 76 | 76 | 76 | 60 | 60 | 60 | 45 | 45 | 45 | 38 |
| 1   | 95  | 91  | 88  | 84  | 86 | 83 | 80 | 77 | 67 | 65 | 63 | 53 | 52 | 51 | 40 | 39 | 38 | 32 |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 64 | 60 | 56 | 53 | 47 | 45 | 43 | 36 | 34 | 33 | 28 |
| 3   | 80  | 71  | 64  | 58  | 72 | 64 | 58 | 54 | 53 | 48 | 45 | 42 | 39 | 37 | 32 | 30 | 28 | 24 |
| 4   | 73  | 63  | 55  | 49  | 66 | 57 | 51 | 46 | 47 | 42 | 39 | 38 | 34 | 32 | 29 | 27 | 25 | 21 |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 | 42 | 37 | 33 | 34 | 30 | 28 | 26 | 24 | 22 | 18 |
| 6   | 62  | 50  | 42  | 37  | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 21 | 19 | 16 |
| 7   | 57  | 45  | 38  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 28 | 24 | 22 | 22 | 19 | 17 | 15 |
| 8   | 53  | 41  | 34  | 29  | 48 | 38 | 31 | 27 | 32 | 27 | 23 | 26 | 22 | 19 | 20 | 18 | 16 | 13 |
| 9   | 49  | 38  | 30  | 26  | 45 | 35 | 28 | 24 | 29 | 24 | 21 | 24 | 20 | 17 | 19 | 16 | 14 | 12 |
| 10  | 46  | 35  | 28  | 23  | 42 | 32 | 26 | 21 | 27 | 22 | 19 | 22 | 18 | 16 | 17 | 15 | 13 | 11 |

**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  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.5   | 1.7       |
| 10°-20°   | 273.3  | 4.7       |
| 20°-30°   | 383.7  | 6.6       |
| 30°-40°   | 418.4  | 7.2       |
| 40°-50°   | 384.7  | 6.6       |
| 50°-60°   | 302.2  | 5.2       |
| 60°-70°   | 197.0  | 3.4       |
| 70°-80°   | 101.6  | 1.7       |
| 80°-90°   | 31.5   | 0.5       |
| 90°-100°  | 82.2   | 1.4       |
| 100°-110° | 255.3  | 4.4       |
| 110°-120° | 436.4  | 7.5       |
| 120°-130° | 573.9  | 9.9       |
| 130°-140° | 644.2  | 11.1      |
| 140°-150° | 631.6  | 10.9      |
| 150°-160° | 529.8  | 9.1       |
| 160°-170° | 351.4  | 6.0       |
| 170°-180° | 122.8  | 2.1       |
| 0°-30°    | 756.5  | 13.0      |
| 0°-40°    | 1174.9 | 20.2      |
| 0°-60°    | 1861.8 | 32.0      |
| 0°-90°    | 2192.0 | 37.7      |
| 90°-120°  | 774.0  | 13.3      |
| 90°-150°  | 2623.7 | 45.1      |
| 90°-180°  | 3628.0 | 62.3      |
| 0°-180°   | 5819.7 | 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    | 15    | 38   | 36    | 37   | 5    |
| 95°  | 57   | 67    | 70   | 70    | 68   | 65   |
| 105° | 235  | 239   | 241  | 243   | 243  | 249  |
| 115° | 438  | 444   | 442  | 441   | 438  | 433  |
| 125° | 637  | 646   | 644  | 641   | 639  | 569  |
| 135° | 824  | 836   | 839  | 837   | 834  | 637  |
| 145° | 1001 | 1008  | 1015 | 1016  | 1012 | 625  |
| 155° | 1144 | 1147  | 1151 | 1156  | 1153 | 526  |
| 165° | 1245 | 1244  | 1244 | 1251  | 1246 | 351  |
| 175° | 1295 | 1292  | 1290 | 1297  | 1291 | 123  |
| 180° | 1297 | 1297  | 1297 | 1297  | 1297 |      |



TEST NUMBER: P331703-830

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**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°  | 12.5   | 11.8   | 10.9   | 10.2   | 9.4    | 9.5    | 10.7   | 11.7   | 12.7   | 13.9   | 13.6   |
| 90°    | 1.1    | 4.1    | 7.0    | 9.9    | 12.8   | 16.9   | 22.2   | 27.6   | 33.0   | 38.4   | 37.8   |
| 92.5°  | 19.5   | 21.6   | 23.8   | 25.9   | 28.1   | 29.8   | 31.0   | 32.3   | 33.6   | 34.8   | 34.9   |
| 95°    | 56.9   | 59.4   | 61.8   | 64.2   | 66.6   | 68.1   | 68.6   | 69.1   | 69.6   | 70.0   | 70.0   |
| 97.5°  | 104.1  | 106.1  | 108.3  | 110.5  | 112.5  | 114.1  | 115.0  | 115.9  | 116.9  | 117.8  | 117.8  |
| 100°   | 139.0  | 141.0  | 143.0  | 144.9  | 146.8  | 148.2  | 148.9  | 149.6  | 150.3  | 151.1  | 151.1  |
| 102.5° | 175.9  | 177.4  | 179.0  | 180.5  | 182.1  | 183.3  | 184.3  | 185.1  | 186.1  | 187.0  | 187.2  |
| 105°   | 235.4  | 236.1  | 236.9  | 237.6  | 238.3  | 238.9  | 239.4  | 239.9  | 240.3  | 240.8  | 241.4  |
| 107.5° | 295.4  | 296.4  | 297.6  | 298.6  | 299.6  | 300.2  | 300.2  | 300.2  | 300.2  | 300.2  | 300.4  |
| 110°   | 333.9  | 335.4  | 336.9  | 338.3  | 339.8  | 340.5  | 340.5  | 340.5  | 340.5  | 340.5  | 340.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 376.0  | 377.4  | 378.9  | 380.3  | 381.8  | 382.5  | 382.2  | 382.0  | 381.8  | 381.6  | 381.1  |
| 115°   | 437.9  | 439.4  | 440.8  | 442.3  | 443.7  | 444.2  | 443.7  | 443.3  | 442.8  | 442.3  | 442.1  |
| 117.5° | 499.6  | 501.6  | 503.6  | 505.5  | 507.5  | 507.7  | 506.4  | 505.0  | 503.7  | 502.3  | 501.7  |
| 120°   | 540.8  | 542.8  | 544.8  | 546.7  | 548.7  | 548.7  | 546.7  | 544.8  | 542.8  | 540.8  | 540.8  |
| 122.5° | 578.5  | 580.9  | 583.2  | 585.5  | 587.9  | 588.3  | 587.0  | 585.6  | 584.3  | 582.9  | 582.3  |
| 125°   | 637.2  | 639.4  | 641.6  | 643.8  | 645.9  | 646.7  | 645.9  | 645.3  | 644.5  | 643.8  | 643.0  |
| 127.5° | 694.4  | 697.1  | 699.9  | 702.7  | 705.4  | 706.4  | 705.5  | 704.6  | 703.8  | 702.9  | 702.0  |
| 130°   | 730.3  | 733.4  | 736.6  | 739.7  | 742.9  | 744.2  | 743.8  | 743.3  | 742.8  | 742.3  | 741.8  |
| 132.5° | 770.5  | 773.2  | 775.7  | 778.3  | 780.9  | 782.2  | 782.3  | 782.4  | 782.5  | 782.6  | 781.6  |
| 135°   | 824.4  | 827.1  | 829.8  | 832.5  | 835.1  | 836.7  | 837.2  | 837.6  | 838.2  | 838.7  | 838.4  |
| 137.5° | 881.1  | 883.4  | 885.5  | 887.7  | 889.9  | 891.3  | 891.9  | 892.6  | 893.2  | 893.8  | 893.6  |
| 140°   | 915.3  | 917.5  | 919.6  | 921.9  | 924.1  | 925.8  | 927.0  | 928.2  | 929.4  | 930.6  | 930.6  |
| 142.5° | 950.4  | 952.5  | 954.7  | 956.9  | 959.0  | 960.5  | 961.4  | 962.2  | 963.1  | 963.9  | 964.1  |
| 145°   | 1000.7 | 1002.4 | 1004.1 | 1005.8 | 1007.5 | 1009.1 | 1010.5 | 1012.0 | 1013.4 | 1014.9 | 1015.1 |
| 147.5° | 1045.6 | 1047.6 | 1049.6 | 1051.7 | 1053.8 | 1055.3 | 1056.2 | 1057.2 | 1058.2 | 1059.1 | 1059.7 |
| 150°   | 1076.2 | 1077.7 | 1079.1 | 1080.6 | 1082.0 | 1083.3 | 1084.3 | 1085.2 | 1086.2 | 1087.2 | 1087.9 |
| 152.5° | 1103.3 | 1104.8 | 1106.3 | 1107.8 | 1109.2 | 1110.5 | 1111.7 | 1112.9 | 1114.1 | 1115.2 | 1116.2 |
| 155°   | 1144.2 | 1144.8 | 1145.6 | 1146.3 | 1147.1 | 1147.7 | 1148.5 | 1149.2 | 1150.0 | 1150.7 | 1151.9 |
| 157.5° | 1178.9 | 1179.4 | 1179.9 | 1180.3 | 1180.9 | 1181.3 | 1181.8 | 1182.2 | 1182.6 | 1183.1 | 1184.8 |
| 160°   | 1200.0 | 1200.4 | 1200.9 | 1201.4 | 1201.9 | 1202.2 | 1202.5 | 1202.8 | 1203.0 | 1203.2 | 1204.7 |
| 162.5° | 1219.2 | 1219.3 | 1219.4 | 1219.5 | 1219.7 | 1219.7 | 1220.0 | 1220.2 | 1220.5 | 1220.8 | 1222.4 |
| 165°   | 1244.8 | 1244.6 | 1244.3 | 1244.1 | 1243.9 | 1243.8 | 1243.8 | 1243.8 | 1243.8 | 1243.8 | 1245.5 |
| 167.5° | 1266.3 | 1265.6 | 1264.8 | 1264.1 | 1263.4 | 1263.0 | 1262.9 | 1262.9 | 1262.8 | 1262.8 | 1264.5 |
| 170°   | 1277.7 | 1277.0 | 1276.2 | 1275.4 | 1274.8 | 1274.3 | 1274.0 | 1273.8 | 1273.6 | 1273.3 | 1275.0 |
| 172.5° | 1285.5 | 1284.9 | 1284.1 | 1283.4 | 1282.6 | 1282.1 | 1282.0 | 1281.7 | 1281.4 | 1281.2 | 1282.9 |
| 175°   | 1295.2 | 1294.5 | 1293.7 | 1293.0 | 1292.3 | 1291.7 | 1291.2 | 1290.7 | 1290.2 | 1289.7 | 1291.5 |
| 177.5° | 1299.1 | 1298.5 | 1298.0 | 1297.4 | 1296.8 | 1296.3 | 1295.9 | 1295.5 | 1295.1 | 1294.8 | 1295.9 |
| 180°   | 1297.4 | 1297.4 | 1297.4 | 1297.4 | 1297.4 | 1297.4 | 1297.4 | 1297.4 | 1297.4 | 1297.4 | 1297.4 |



TEST NUMBER: P331703-830

CATALOG NUMBER: SA2XXRDIP-C675D1080U830-4F0-1E-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°  | 13.3   | 13.0   | 12.7   | 12.6   | 12.7   | 12.7   | 12.8   | 12.8   |
| 90°    | 37.3   | 36.9   | 36.4   | 36.3   | 36.5   | 36.8   | 36.9   | 37.2   |
| 92.5°  | 35.0   | 35.1   | 35.3   | 35.3   | 35.3   | 35.3   | 35.4   | 35.4   |
| 95°    | 70.0   | 70.0   | 70.0   | 69.8   | 69.4   | 68.9   | 68.3   | 67.9   |
| 97.5°  | 117.8  | 117.8  | 117.8  | 117.8  | 117.7  | 117.7  | 117.6  | 117.6  |
| 100°   | 151.1  | 151.1  | 151.1  | 151.0  | 150.7  | 150.5  | 150.2  | 150.0  |
| 102.5° | 187.4  | 187.6  | 187.8  | 187.8  | 187.5  | 187.3  | 187.0  | 186.8  |
| 105°   | 241.9  | 242.3  | 242.8  | 243.1  | 243.1  | 243.1  | 243.1  | 243.1  |
| 107.5° | 300.6  | 300.8  | 301.0  | 300.5  | 299.4  | 298.3  | 297.2  | 296.1  |
| 110°   | 340.5  | 340.5  | 340.5  | 340.2  | 339.4  | 338.7  | 337.9  | 337.2  |





TEST NUMBER: P331703-830

CATALOG NUMBER: SA2XXRDIP-C675D1080U830-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 380.5  | 379.9  | 379.4  | 378.8  | 378.2  | 377.7  | 377.2  | 376.6  |
| 115°   | 441.9  | 441.6  | 441.3  | 440.8  | 440.2  | 439.4  | 438.7  | 437.9  |
| 117.5° | 501.1  | 500.6  | 500.0  | 499.4  | 498.6  | 497.9  | 497.1  | 496.4  |
| 120°   | 540.8  | 540.8  | 540.8  | 540.5  | 539.8  | 539.0  | 538.3  | 537.5  |
| 122.5° | 581.7  | 581.2  | 580.5  | 580.0  | 579.5  | 578.9  | 578.4  | 577.9  |
| 125°   | 642.3  | 641.6  | 640.8  | 640.4  | 640.1  | 639.9  | 639.6  | 639.4  |
| 127.5° | 701.2  | 700.2  | 699.4  | 698.5  | 697.8  | 697.0  | 696.3  | 695.4  |
| 130°   | 741.3  | 740.8  | 740.4  | 739.6  | 738.7  | 737.6  | 736.7  | 735.7  |
| 132.5° | 780.4  | 779.4  | 778.4  | 777.4  | 776.7  | 775.8  | 775.1  | 774.3  |
| 135°   | 838.2  | 837.9  | 837.6  | 837.2  | 836.4  | 835.8  | 835.0  | 834.2  |
| 137.5° | 893.4  | 893.2  | 893.1  | 892.5  | 891.5  | 890.5  | 889.6  | 888.5  |
| 140°   | 930.6  | 930.6  | 930.6  | 930.1  | 929.2  | 928.2  | 927.2  | 926.2  |
| 142.5° | 964.3  | 964.5  | 964.7  | 964.3  | 963.3  | 962.3  | 961.4  | 960.4  |
| 145°   | 1015.4 | 1015.7 | 1015.9 | 1015.5 | 1014.6 | 1013.6 | 1012.6 | 1011.6 |
| 147.5° | 1060.3 | 1060.7 | 1061.3 | 1061.1 | 1060.2 | 1059.2 | 1058.3 | 1057.4 |
| 150°   | 1088.6 | 1089.4 | 1090.1 | 1090.1 | 1089.4 | 1088.6 | 1087.9 | 1087.2 |
| 152.5° | 1117.1 | 1117.9 | 1118.9 | 1118.9 | 1117.9 | 1117.1 | 1116.2 | 1115.2 |
| 155°   | 1153.1 | 1154.3 | 1155.6 | 1155.7 | 1155.1 | 1154.3 | 1153.6 | 1152.8 |
| 157.5° | 1186.4 | 1188.1 | 1189.7 | 1190.0 | 1188.7 | 1187.6 | 1186.5 | 1185.2 |
| 160°   | 1206.2 | 1207.6 | 1209.1 | 1209.3 | 1208.3 | 1207.4 | 1206.4 | 1205.4 |
| 162.5° | 1224.1 | 1225.7 | 1227.4 | 1227.6 | 1226.4 | 1225.3 | 1224.1 | 1222.9 |
| 165°   | 1247.2 | 1248.9 | 1250.6 | 1250.8 | 1249.6 | 1248.4 | 1247.2 | 1245.9 |
| 167.5° | 1266.2 | 1267.9 | 1269.6 | 1269.8 | 1268.6 | 1267.2 | 1266.0 | 1264.8 |
| 170°   | 1276.7 | 1278.4 | 1280.1 | 1280.3 | 1278.7 | 1277.3 | 1275.8 | 1274.4 |
| 172.5° | 1284.6 | 1286.3 | 1288.0 | 1288.1 | 1286.7 | 1285.2 | 1283.7 | 1282.2 |
| 175°   | 1293.2 | 1294.9 | 1296.6 | 1296.7 | 1295.2 | 1293.7 | 1292.3 | 1290.8 |
| 177.5° | 1297.1 | 1298.3 | 1299.4 | 1299.4 | 1298.3 | 1297.1 | 1295.9 | 1294.8 |
| 180°   | 1297.4 | 1297.4 | 1297.4 | 1297.4 | 1297.4 | 1297.4 | 1297.4 | 1297.4 |

(END OF REPORT)