

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: P331417-927

Luminaire Tested: **SA2XXDIP-C865D1080U927-4F0-1E-UDD-F**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331417-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C865D1080U927-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1080 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6194.8 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

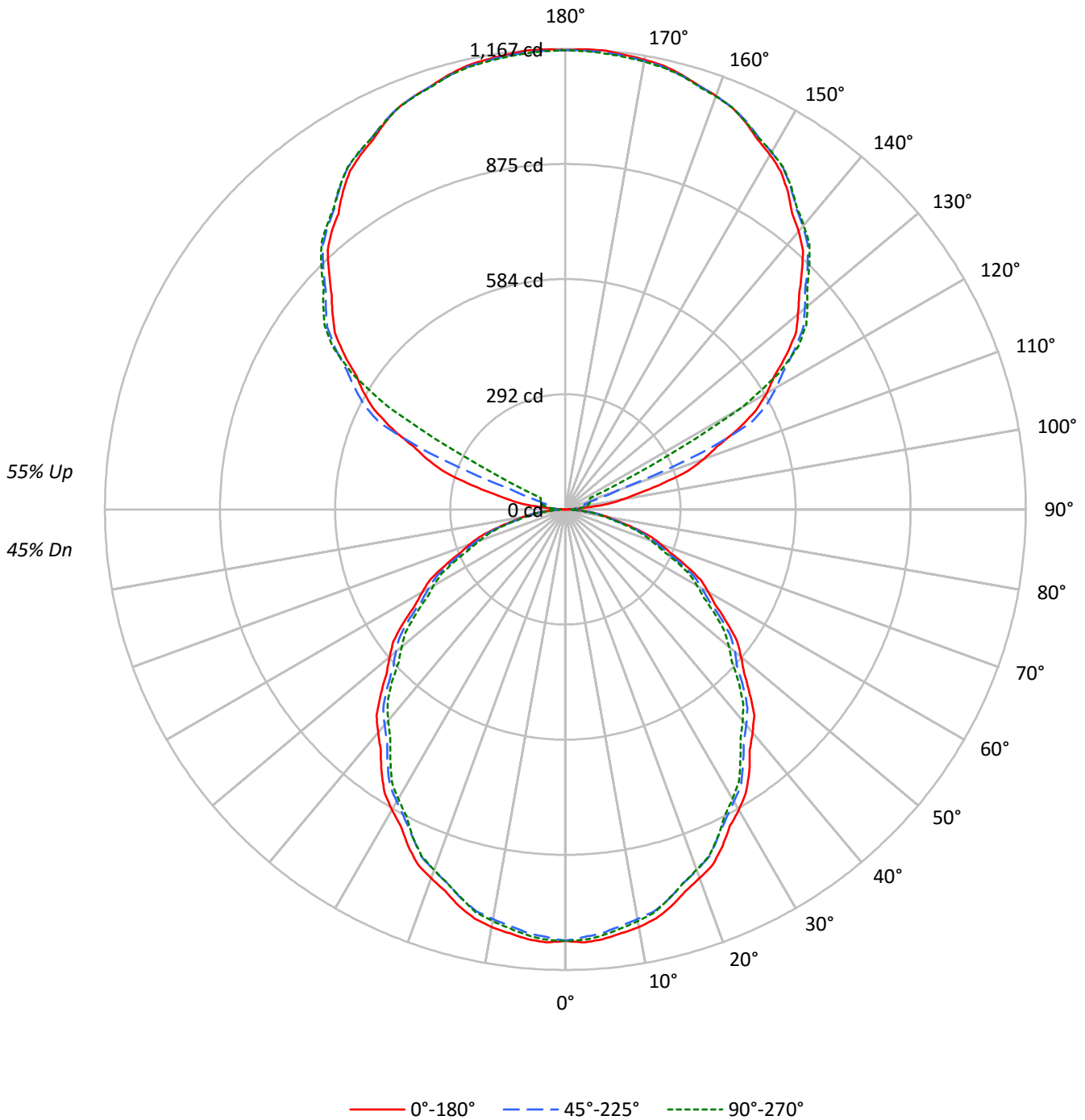
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331417-927

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### Luminous Intensity Polar Plot





TEST NUMBER: P331417-927

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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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 65 | 65 | 65 | 51 | 51 | 51 | 45 |
| 1   | 97  | 92  | 88  | 85  | 88 | 85 | 81 | 78 | 71 | 68 | 66 | 57 | 56 | 54 | 45 | 44 | 43 | 38 |
| 2   | 88  | 81  | 75  | 69  | 80 | 74 | 69 | 64 | 62 | 58 | 55 | 50 | 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 | 28 | 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 | 29 | 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°  | 17651 | 17651 | 17651 |
| 5°  | 17718 | 17462 | 17566 |
| 10° | 17613 | 17285 | 17372 |
| 15° | 17396 | 17061 | 17043 |
| 20° | 17086 | 16725 | 16706 |
| 25° | 16778 | 16311 | 16311 |
| 30° | 16384 | 15933 | 15795 |
| 35° | 16015 | 15477 | 15248 |
| 40° | 15553 | 15022 | 14733 |
| 45° | 15098 | 14570 | 14209 |
| 50° | 14601 | 14099 | 13599 |
| 55° | 14083 | 13551 | 13050 |
| 60° | 13511 | 12897 | 12426 |
| 65° | 12894 | 12248 | 11687 |
| 70° | 12109 | 11462 | 10914 |
| 75° | 11017 | 10555 | 10293 |
| 80° | 9772  | 9484  | 8991  |
| 85° | 7984  | 7595  | 6817  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.8  | 1.7       |
| 10°-20°   | 289.3  | 4.7       |
| 20°-30°   | 425.2  | 6.9       |
| 30°-40°   | 493.9  | 8.0       |
| 40°-50°   | 493.3  | 8.0       |
| 50°-60°   | 430.2  | 6.9       |
| 60°-70°   | 318.1  | 5.1       |
| 70°-80°   | 180.2  | 2.9       |
| 80°-90°   | 51.3   | 0.8       |
| 90°-100°  | 38.8   | 0.6       |
| 100°-110° | 142.4  | 2.3       |
| 110°-120° | 380.6  | 6.1       |
| 120°-130° | 628.2  | 10.1      |
| 130°-140° | 668.1  | 10.8      |
| 140°-150° | 620.9  | 10.0      |
| 150°-160° | 499.2  | 8.1       |
| 160°-170° | 321.7  | 5.2       |
| 170°-180° | 110.7  | 1.8       |
| 0°-30°    | 817.2  | 13.2      |
| 0°-40°    | 1311.1 | 21.2      |
| 0°-60°    | 2234.6 | 36.1      |
| 0°-90°    | 2784.2 | 44.9      |
| 90°-120°  | 561.7  | 9.1       |
| 90°-150°  | 2478.9 | 40.0      |
| 90°-180°  | 3411.0 | 55.1      |
| 0°-180°   | 6194.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1093 | 1093  | 1093 | 1093  | 1093 |      |
| 5°   | 1093 | 1089  | 1077 | 1085  | 1084 | 104  |
| 15°  | 1041 | 1034  | 1021 | 1024  | 1020 | 293  |
| 25°  | 942  | 933   | 916  | 917   | 916  | 433  |
| 35°  | 812  | 802   | 785  | 779   | 774  | 507  |
| 45°  | 661  | 653   | 638  | 627   | 622  | 510  |
| 55°  | 500  | 494   | 481  | 469   | 464  | 447  |
| 65°  | 338  | 331   | 321  | 311   | 306  | 334  |
| 75°  | 177  | 174   | 169  | 163   | 165  | 189  |
| 85°  | 43   | 42    | 41   | 38    | 37   | 49   |
| 90°  | 1    | 10    | 17   | 21    | 23   | 5    |
| 95°  | 55   | 29    | 33   | 37    | 36   | 67   |
| 105° | 256  | 267   | 51   | 60    | 64   | 274  |
| 115° | 484  | 499   | 520  | 148   | 69   | 477  |
| 125° | 685  | 696   | 712  | 717   | 720  | 610  |
| 135° | 847  | 860   | 868  | 876   | 875  | 654  |
| 145° | 983  | 983   | 996  | 1002  | 998  | 614  |
| 155° | 1082 | 1076  | 1085 | 1089  | 1083 | 498  |
| 165° | 1140 | 1136  | 1138 | 1143  | 1138 | 322  |
| 175° | 1166 | 1161  | 1162 | 1167  | 1160 | 111  |
| 180° | 1164 | 1164  | 1164 | 1164  | 1164 |      |



TEST NUMBER: P331417-927

CATALOG NUMBER: SA2XXDIP-C865D1080U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1093.2 | 1093.2 | 1093.2 | 1093.2 | 1093.2 | 1093.2 | 1093.2 | 1093.2 | 1093.2 | 1093.2 | 1093.2 |
| 2.5°   | 1098.3 | 1097.3 | 1096.4 | 1095.5 | 1094.6 | 1093.1 | 1091.0 | 1088.9 | 1086.9 | 1084.8 | 1086.7 |
| 5°     | 1093.2 | 1092.3 | 1091.4 | 1090.4 | 1089.5 | 1087.7 | 1085.2 | 1082.6 | 1080.1 | 1077.4 | 1079.3 |
| 7.5°   | 1083.5 | 1082.1 | 1080.7 | 1079.2 | 1077.8 | 1075.7 | 1073.1 | 1070.5 | 1067.9 | 1065.2 | 1067.1 |
| 10°    | 1074.3 | 1072.7 | 1071.0 | 1069.4 | 1067.8 | 1065.6 | 1062.7 | 1059.9 | 1057.2 | 1054.3 | 1056.2 |
| 12.5°  | 1061.7 | 1060.3 | 1058.8 | 1057.3 | 1055.9 | 1053.8 | 1051.0 | 1048.1 | 1045.4 | 1042.6 | 1043.9 |
| 15°    | 1040.7 | 1039.3 | 1037.8 | 1036.5 | 1035.1 | 1032.8 | 1029.8 | 1026.7 | 1023.7 | 1020.7 | 1021.6 |
| 17.5°  | 1013.8 | 1012.3 | 1011.0 | 1009.6 | 1008.1 | 1005.9 | 1002.8 | 999.7  | 996.6  | 993.6  | 994.7  |
| 20°    | 994.4  | 993.0  | 991.7  | 990.2  | 988.8  | 986.5  | 983.2  | 979.9  | 976.7  | 973.4  | 974.1  |
| 22.5°  | 975.1  | 973.1  | 971.1  | 969.2  | 967.3  | 964.7  | 961.6  | 958.5  | 955.5  | 952.4  | 952.5  |
| 25°    | 941.8  | 940.0  | 938.1  | 936.3  | 934.4  | 931.4  | 927.5  | 923.5  | 919.6  | 915.6  | 916.1  |
| 27.5°  | 904.0  | 902.4  | 900.6  | 899.0  | 897.3  | 894.8  | 891.8  | 888.6  | 885.5  | 882.3  | 881.7  |
| 30°    | 878.8  | 876.9  | 875.0  | 873.2  | 871.3  | 868.6  | 865.1  | 861.7  | 858.1  | 854.6  | 853.9  |
| 32.5°  | 851.9  | 850.4  | 848.9  | 847.4  | 845.9  | 843.3  | 839.6  | 835.9  | 832.3  | 828.5  | 827.3  |
| 35°    | 812.5  | 810.2  | 807.9  | 805.6  | 803.2  | 800.2  | 796.5  | 792.7  | 788.9  | 785.2  | 783.9  |
| 37.5°  | 768.2  | 766.1  | 764.1  | 762.0  | 760.0  | 757.1  | 753.4  | 749.6  | 745.8  | 742.1  | 740.4  |
| 40°    | 737.9  | 736.1  | 734.2  | 732.3  | 730.5  | 727.6  | 723.9  | 720.2  | 716.4  | 712.7  | 710.6  |
| 42.5°  | 708.5  | 706.6  | 704.7  | 702.9  | 701.0  | 698.2  | 694.5  | 690.8  | 687.0  | 683.3  | 681.0  |
| 45°    | 661.2  | 659.6  | 657.9  | 656.3  | 654.7  | 652.0  | 648.6  | 645.1  | 641.6  | 638.1  | 635.5  |
| 47.5°  | 614.1  | 612.6  | 611.0  | 609.5  | 607.9  | 605.3  | 601.7  | 598.0  | 594.4  | 590.7  | 588.0  |
| 50°    | 581.3  | 580.1  | 579.0  | 577.8  | 576.6  | 574.4  | 571.2  | 567.8  | 564.6  | 561.3  | 558.1  |
| 52.5°  | 549.4  | 547.8  | 546.3  | 544.7  | 543.2  | 540.9  | 537.8  | 534.7  | 531.6  | 528.5  | 525.9  |
| 55°    | 500.3  | 499.0  | 497.6  | 496.1  | 494.7  | 492.7  | 489.9  | 487.0  | 484.3  | 481.4  | 478.6  |
| 57.5°  | 451.1  | 450.0  | 448.9  | 447.8  | 446.7  | 444.6  | 441.5  | 438.4  | 435.3  | 432.2  | 429.5  |
| 60°    | 418.4  | 417.4  | 416.5  | 415.6  | 414.6  | 412.6  | 409.2  | 406.0  | 402.7  | 399.4  | 396.9  |
| 62.5°  | 386.4  | 384.9  | 383.4  | 381.9  | 380.4  | 378.4  | 375.9  | 373.4  | 370.8  | 368.4  | 366.0  |
| 65°    | 337.5  | 336.0  | 334.6  | 333.2  | 331.8  | 329.9  | 327.6  | 325.3  | 323.0  | 320.6  | 318.5  |
| 67.5°  | 287.6  | 286.5  | 285.3  | 284.2  | 283.1  | 281.5  | 279.4  | 277.3  | 275.2  | 273.1  | 271.5  |
| 70°    | 256.5  | 255.6  | 254.6  | 253.7  | 252.8  | 251.2  | 249.1  | 247.0  | 244.9  | 242.8  | 241.2  |
| 72.5°  | 224.5  | 223.6  | 222.7  | 221.7  | 220.8  | 219.7  | 218.3  | 217.0  | 215.6  | 214.2  | 212.6  |
| 75°    | 176.6  | 176.1  | 175.6  | 175.2  | 174.8  | 173.9  | 172.8  | 171.6  | 170.4  | 169.2  | 167.9  |
| 77.5°  | 133.7  | 132.9  | 132.1  | 131.3  | 130.6  | 129.9  | 129.4  | 129.0  | 128.5  | 128.0  | 127.3  |
| 80°    | 105.1  | 104.9  | 104.6  | 104.4  | 104.2  | 103.9  | 103.4  | 102.9  | 102.4  | 102.0  | 101.2  |
| 82.5°  | 78.2   | 78.2   | 78.1   | 78.0   | 78.0   | 77.9   | 77.6   | 77.3   | 77.0   | 76.8   | 75.8   |
| 85°    | 43.1   | 42.9   | 42.6   | 42.4   | 42.1   | 41.9   | 41.7   | 41.4   | 41.2   | 41.0   | 40.3   |
| 87.5°  | 15.3   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.3   | 15.2   | 15.1   | 14.7   |
| 90°    | 0.9    | 2.9    | 5.0    | 7.1    | 9.1    | 10.9   | 12.4   | 13.9   | 15.4   | 16.9   | 17.7   |
| 92.5°  | 17.0   | 16.8   | 16.6   | 16.5   | 16.2   | 16.6   | 17.3   | 18.1   | 18.8   | 19.6   | 20.0   |
| 95°    | 54.7   | 48.6   | 42.4   | 36.2   | 30.0   | 27.6   | 28.9   | 30.3   | 31.5   | 32.9   | 33.7   |
| 97.5°  | 108.6  | 91.3   | 73.8   | 56.4   | 39.1   | 31.8   | 34.9   | 37.9   | 41.0   | 44.0   | 44.7   |
| 100°   | 149.1  | 123.4  | 97.8   | 72.2   | 46.5   | 35.3   | 38.4   | 41.7   | 44.8   | 48.0   | 49.5   |
| 102.5° | 193.5  | 188.1  | 182.7  | 177.2  | 171.8  | 155.8  | 129.2  | 102.6  | 76.0   | 49.4   | 51.3   |
| 105°   | 256.0  | 261.7  | 267.2  | 272.8  | 278.5  | 255.7  | 204.6  | 153.5  | 102.4  | 51.3   | 53.4   |
| 107.5° | 327.3  | 331.8  | 336.3  | 340.8  | 345.4  | 317.0  | 255.7  | 194.5  | 133.2  | 71.9   | 69.8   |
| 110°   | 373.0  | 377.0  | 381.0  | 384.8  | 388.8  | 363.7  | 309.6  | 255.6  | 201.5  | 147.3  | 128.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 416.2  | 419.7  | 423.1  | 426.6  | 430.1  | 425.2  | 411.8  | 398.5  | 385.1  | 371.7  | 303.5  |
| 115°   | 484.3  | 487.4  | 490.6  | 493.8  | 496.9  | 500.9  | 505.6  | 510.2  | 514.9  | 519.6  | 432.9  |
| 117.5° | 545.0  | 548.6  | 552.2  | 555.7  | 559.3  | 562.6  | 565.9  | 569.1  | 572.3  | 575.5  | 554.5  |
| 120°   | 589.5  | 592.3  | 595.1  | 597.9  | 600.7  | 603.8  | 607.2  | 610.5  | 613.9  | 617.3  | 619.5  |
| 122.5° | 627.2  | 630.2  | 633.1  | 636.1  | 639.1  | 642.4  | 646.0  | 649.7  | 653.4  | 657.0  | 658.4  |
| 125°   | 684.7  | 687.1  | 689.5  | 692.0  | 694.3  | 697.4  | 700.9  | 704.5  | 708.1  | 711.6  | 712.9  |
| 127.5° | 736.7  | 739.4  | 742.1  | 744.8  | 747.5  | 750.1  | 752.8  | 755.4  | 758.1  | 760.8  | 762.7  |
| 130°   | 769.7  | 772.7  | 775.7  | 778.7  | 781.6  | 784.2  | 786.2  | 788.3  | 790.4  | 792.4  | 794.5  |
| 132.5° | 803.4  | 806.0  | 808.5  | 811.0  | 813.6  | 815.9  | 817.9  | 820.0  | 822.0  | 824.1  | 825.9  |
| 135°   | 847.2  | 850.2  | 853.2  | 856.2  | 859.1  | 861.5  | 863.2  | 864.8  | 866.6  | 868.2  | 870.1  |
| 137.5° | 891.4  | 893.6  | 895.6  | 897.8  | 899.8  | 901.8  | 903.8  | 905.7  | 907.6  | 909.5  | 911.3  |
| 140°   | 920.4  | 921.9  | 923.4  | 925.0  | 926.5  | 928.2  | 930.3  | 932.3  | 934.4  | 936.4  | 938.1  |
| 142.5° | 944.7  | 946.0  | 947.4  | 948.7  | 950.1  | 952.0  | 954.3  | 956.6  | 959.0  | 961.4  | 962.9  |
| 145°   | 982.8  | 982.5  | 982.4  | 982.2  | 982.0  | 983.5  | 986.7  | 989.8  | 993.1  | 996.2  | 997.5  |
| 147.5° | 1016.0 | 1015.3 | 1014.5 | 1013.8 | 1013.1 | 1014.3 | 1017.5 | 1020.6 | 1023.7 | 1026.9 | 1027.9 |
| 150°   | 1037.5 | 1036.2 | 1034.9 | 1033.6 | 1032.3 | 1033.1 | 1036.1 | 1039.1 | 1042.1 | 1045.0 | 1046.2 |
| 152.5° | 1055.7 | 1054.2 | 1052.7 | 1051.3 | 1049.9 | 1050.5 | 1053.4 | 1056.2 | 1059.1 | 1061.9 | 1063.0 |
| 155°   | 1082.1 | 1080.5 | 1078.8 | 1077.1 | 1075.4 | 1075.7 | 1077.9 | 1080.1 | 1082.4 | 1084.7 | 1085.8 |
| 157.5° | 1102.9 | 1101.5 | 1100.0 | 1098.6 | 1097.2 | 1097.3 | 1098.8 | 1100.3 | 1101.9 | 1103.5 | 1104.8 |
| 160°   | 1115.0 | 1113.9 | 1112.7 | 1111.6 | 1110.5 | 1110.5 | 1111.6 | 1112.7 | 1113.9 | 1115.0 | 1116.1 |
| 162.5° | 1125.8 | 1124.7 | 1123.5 | 1122.4 | 1121.3 | 1121.2 | 1122.1 | 1123.2 | 1124.1 | 1125.1 | 1126.3 |
| 165°   | 1140.3 | 1139.1 | 1138.0 | 1136.9 | 1135.8 | 1135.4 | 1136.0 | 1136.6 | 1137.2 | 1137.7 | 1139.0 |
| 167.5° | 1151.0 | 1149.9 | 1148.7 | 1147.6 | 1146.5 | 1146.2 | 1146.8 | 1147.2 | 1147.8 | 1148.3 | 1149.6 |
| 170°   | 1157.1 | 1156.0 | 1154.8 | 1153.7 | 1152.6 | 1152.2 | 1152.6 | 1152.9 | 1153.3 | 1153.7 | 1155.0 |
| 172.5° | 1161.1 | 1160.0 | 1158.9 | 1157.8 | 1156.7 | 1156.3 | 1156.7 | 1157.0 | 1157.4 | 1157.8 | 1159.0 |
| 175°   | 1166.3 | 1165.1 | 1163.7 | 1162.4 | 1161.1 | 1160.6 | 1161.0 | 1161.4 | 1161.7 | 1162.1 | 1163.5 |
| 177.5° | 1167.2 | 1166.2 | 1165.1 | 1164.0 | 1163.0 | 1162.5 | 1162.7 | 1162.8 | 1163.0 | 1163.2 | 1164.2 |
| 180°   | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 |



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CATALOG NUMBER: SA2XXDIP-C865D1080U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1093.2 | 1093.2 | 1093.2 | 1093.2 | 1093.2 | 1093.2 | 1093.2 | 1093.2 |
| 2.5°   | 1088.5 | 1090.4 | 1092.3 | 1093.1 | 1092.7 | 1092.3 | 1091.9 | 1091.5 |
| 5°     | 1081.2 | 1083.1 | 1085.0 | 1085.6 | 1085.2 | 1084.7 | 1084.3 | 1083.8 |
| 7.5°   | 1069.0 | 1070.9 | 1072.8 | 1073.4 | 1072.9 | 1072.4 | 1071.9 | 1071.3 |
| 10°    | 1058.0 | 1059.9 | 1061.8 | 1062.4 | 1061.7 | 1061.0 | 1060.3 | 1059.6 |
| 12.5°  | 1045.2 | 1046.5 | 1047.8 | 1048.2 | 1047.7 | 1047.2 | 1046.6 | 1046.2 |
| 15°    | 1022.5 | 1023.5 | 1024.5 | 1024.3 | 1023.2 | 1022.0 | 1020.8 | 1019.6 |
| 17.5°  | 995.7  | 996.8  | 997.9  | 997.8  | 996.7  | 995.6  | 994.5  | 993.4  |
| 20°    | 974.8  | 975.5  | 976.2  | 976.0  | 975.2  | 974.2  | 973.3  | 972.3  |
| 22.5°  | 952.7  | 952.8  | 952.9  | 952.8  | 952.1  | 951.6  | 951.0  | 950.5  |
| 25°    | 916.6  | 917.0  | 917.4  | 917.4  | 917.0  | 916.6  | 916.1  | 915.6  |
| 27.5°  | 881.0  | 880.3  | 879.6  | 878.7  | 877.5  | 876.4  | 875.3  | 874.2  |
| 30°    | 853.2  | 852.5  | 851.8  | 851.0  | 850.1  | 849.1  | 848.2  | 847.2  |
| 32.5°  | 826.0  | 824.7  | 823.5  | 822.4  | 821.5  | 820.5  | 819.6  | 818.6  |
| 35°    | 782.4  | 781.0  | 779.7  | 778.3  | 777.2  | 776.0  | 774.8  | 773.6  |
| 37.5°  | 738.7  | 737.0  | 735.2  | 733.8  | 732.7  | 731.6  | 730.5  | 729.3  |
| 40°    | 708.5  | 706.4  | 704.3  | 702.7  | 701.9  | 700.9  | 700.0  | 699.0  |
| 42.5°  | 678.7  | 676.4  | 674.1  | 672.3  | 671.0  | 669.7  | 668.4  | 667.1  |
| 45°    | 633.0  | 630.3  | 627.8  | 626.1  | 625.1  | 624.2  | 623.2  | 622.3  |
| 47.5°  | 585.3  | 582.7  | 580.0  | 577.9  | 576.6  | 575.2  | 573.9  | 572.5  |
| 50°    | 554.8  | 551.5  | 548.3  | 546.1  | 544.9  | 543.7  | 542.6  | 541.4  |
| 52.5°  | 523.1  | 520.4  | 517.7  | 515.6  | 514.0  | 512.5  | 511.0  | 509.4  |
| 55°    | 475.9  | 473.0  | 470.2  | 468.3  | 467.1  | 465.9  | 464.8  | 463.6  |
| 57.5°  | 426.7  | 424.0  | 421.2  | 419.4  | 418.5  | 417.6  | 416.8  | 415.8  |
| 60°    | 394.3  | 391.7  | 389.2  | 387.5  | 386.8  | 386.1  | 385.4  | 384.8  |
| 62.5°  | 363.5  | 361.2  | 358.8  | 357.2  | 356.2  | 355.4  | 354.5  | 353.6  |
| 65°    | 316.4  | 314.3  | 312.2  | 310.5  | 309.4  | 308.2  | 307.0  | 305.9  |
| 67.5°  | 269.8  | 268.2  | 266.6  | 265.3  | 264.4  | 263.4  | 262.4  | 261.5  |
| 70°    | 239.6  | 237.9  | 236.3  | 235.0  | 234.1  | 233.1  | 232.2  | 231.2  |
| 72.5°  | 211.0  | 209.3  | 207.7  | 206.5  | 205.7  | 205.0  | 204.2  | 203.5  |
| 75°    | 166.4  | 165.0  | 163.7  | 163.2  | 163.7  | 164.1  | 164.5  | 165.0  |
| 77.5°  | 126.7  | 126.0  | 125.2  | 124.5  | 123.9  | 123.3  | 122.6  | 121.9  |
| 80°    | 100.5  | 99.9   | 99.2   | 98.5   | 98.1   | 97.7   | 97.2   | 96.7   |
| 82.5°  | 74.9   | 74.1   | 73.2   | 72.7   | 72.6   | 72.5   | 72.4   | 72.3   |
| 85°    | 39.6   | 38.9   | 38.2   | 37.7   | 37.5   | 37.2   | 37.0   | 36.8   |
| 87.5°  | 14.4   | 14.0   | 13.6   | 13.4   | 13.3   | 13.2   | 13.1   | 13.0   |
| 90°    | 18.7   | 19.6   | 20.6   | 21.2   | 21.6   | 22.0   | 22.3   | 22.7   |
| 92.5°  | 20.5   | 21.0   | 21.5   | 21.9   | 22.1   | 22.3   | 22.5   | 22.7   |
| 95°    | 34.7   | 35.6   | 36.6   | 37.0   | 36.8   | 36.6   | 36.4   | 36.2   |
| 97.5°  | 45.5   | 46.2   | 47.0   | 47.5   | 47.7   | 47.9   | 48.1   | 48.3   |
| 100°   | 51.0   | 52.5   | 54.0   | 54.9   | 55.3   | 55.7   | 56.1   | 56.4   |
| 102.5° | 53.2   | 55.2   | 57.1   | 58.4   | 58.9   | 59.4   | 60.0   | 60.4   |
| 105°   | 55.5   | 57.5   | 59.6   | 61.0   | 61.8   | 62.5   | 63.2   | 64.0   |
| 107.5° | 67.7   | 65.6   | 63.5   | 62.9   | 63.6   | 64.3   | 65.1   | 65.8   |
| 110°   | 110.0  | 91.3   | 72.5   | 63.5   | 64.2   | 65.0   | 65.8   | 66.5   |





TEST NUMBER: P331417-927

CATALOG NUMBER: SA2XXDIP-C865D1080U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 235.2  | 166.9  | 98.6   | 64.8   | 65.4   | 66.0   | 66.6   | 67.2   |
| 115°   | 346.3  | 259.7  | 173.0  | 122.9  | 109.5  | 96.0   | 82.5   | 69.1   |
| 117.5° | 533.6  | 512.6  | 491.7  | 459.1  | 414.8  | 370.5  | 326.2  | 281.9  |
| 120°   | 621.8  | 624.0  | 626.3  | 614.7  | 589.5  | 564.2  | 538.9  | 513.7  |
| 122.5° | 659.7  | 661.1  | 662.4  | 660.6  | 655.8  | 650.9  | 645.9  | 641.0  |
| 125°   | 714.2  | 715.5  | 716.8  | 717.8  | 718.4  | 718.9  | 719.5  | 720.0  |
| 127.5° | 764.6  | 766.5  | 768.4  | 769.4  | 769.5  | 769.7  | 769.8  | 769.8  |
| 130°   | 796.5  | 798.6  | 800.7  | 801.6  | 801.5  | 801.2  | 801.1  | 800.9  |
| 132.5° | 827.6  | 829.4  | 831.2  | 831.9  | 831.7  | 831.6  | 831.4  | 831.2  |
| 135°   | 872.0  | 873.9  | 875.7  | 876.5  | 876.1  | 875.7  | 875.4  | 875.0  |
| 137.5° | 913.1  | 915.0  | 916.8  | 917.4  | 916.8  | 916.2  | 915.5  | 914.9  |
| 140°   | 939.8  | 941.5  | 943.2  | 943.6  | 942.6  | 941.7  | 940.7  | 939.8  |
| 142.5° | 964.4  | 966.0  | 967.5  | 967.8  | 966.9  | 965.9  | 965.0  | 964.1  |
| 145°   | 998.9  | 1000.1 | 1001.5 | 1001.6 | 1000.8 | 999.8  | 998.9  | 997.9  |
| 147.5° | 1028.8 | 1029.8 | 1030.8 | 1030.9 | 1030.1 | 1029.3 | 1028.5 | 1027.7 |
| 150°   | 1047.3 | 1048.5 | 1049.6 | 1049.6 | 1048.7 | 1047.8 | 1046.9 | 1045.9 |
| 152.5° | 1064.1 | 1065.3 | 1066.4 | 1066.4 | 1065.1 | 1063.9 | 1062.6 | 1061.4 |
| 155°   | 1086.9 | 1088.1 | 1089.2 | 1088.9 | 1087.4 | 1086.0 | 1084.5 | 1083.0 |
| 157.5° | 1106.0 | 1107.3 | 1108.6 | 1108.5 | 1107.1 | 1105.6 | 1104.1 | 1102.6 |
| 160°   | 1117.2 | 1118.3 | 1119.4 | 1119.4 | 1118.1 | 1116.7 | 1115.5 | 1114.1 |
| 162.5° | 1127.6 | 1128.9 | 1130.2 | 1130.0 | 1128.4 | 1126.8 | 1125.1 | 1123.6 |
| 165°   | 1140.3 | 1141.6 | 1143.0 | 1143.0 | 1141.6 | 1140.3 | 1139.0 | 1137.7 |
| 167.5° | 1151.0 | 1152.2 | 1153.6 | 1153.3 | 1151.7 | 1150.0 | 1148.3 | 1146.6 |
| 170°   | 1156.3 | 1157.6 | 1159.0 | 1158.7 | 1157.1 | 1155.4 | 1153.7 | 1152.0 |
| 172.5° | 1160.4 | 1161.7 | 1163.0 | 1162.8 | 1161.1 | 1159.4 | 1157.8 | 1156.0 |
| 175°   | 1164.7 | 1166.1 | 1167.4 | 1167.1 | 1165.2 | 1163.3 | 1161.5 | 1159.6 |
| 177.5° | 1165.2 | 1166.3 | 1167.4 | 1167.2 | 1165.9 | 1164.5 | 1163.2 | 1161.8 |
| 180°   | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 |

(END OF REPORT)