

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: P332623-930

Luminaire Tested: **SA4XXDIP-C795D1205U930-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332623-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C795D1205U930-4F0-1E-UDD-F1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6178.9 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: General Diffuse

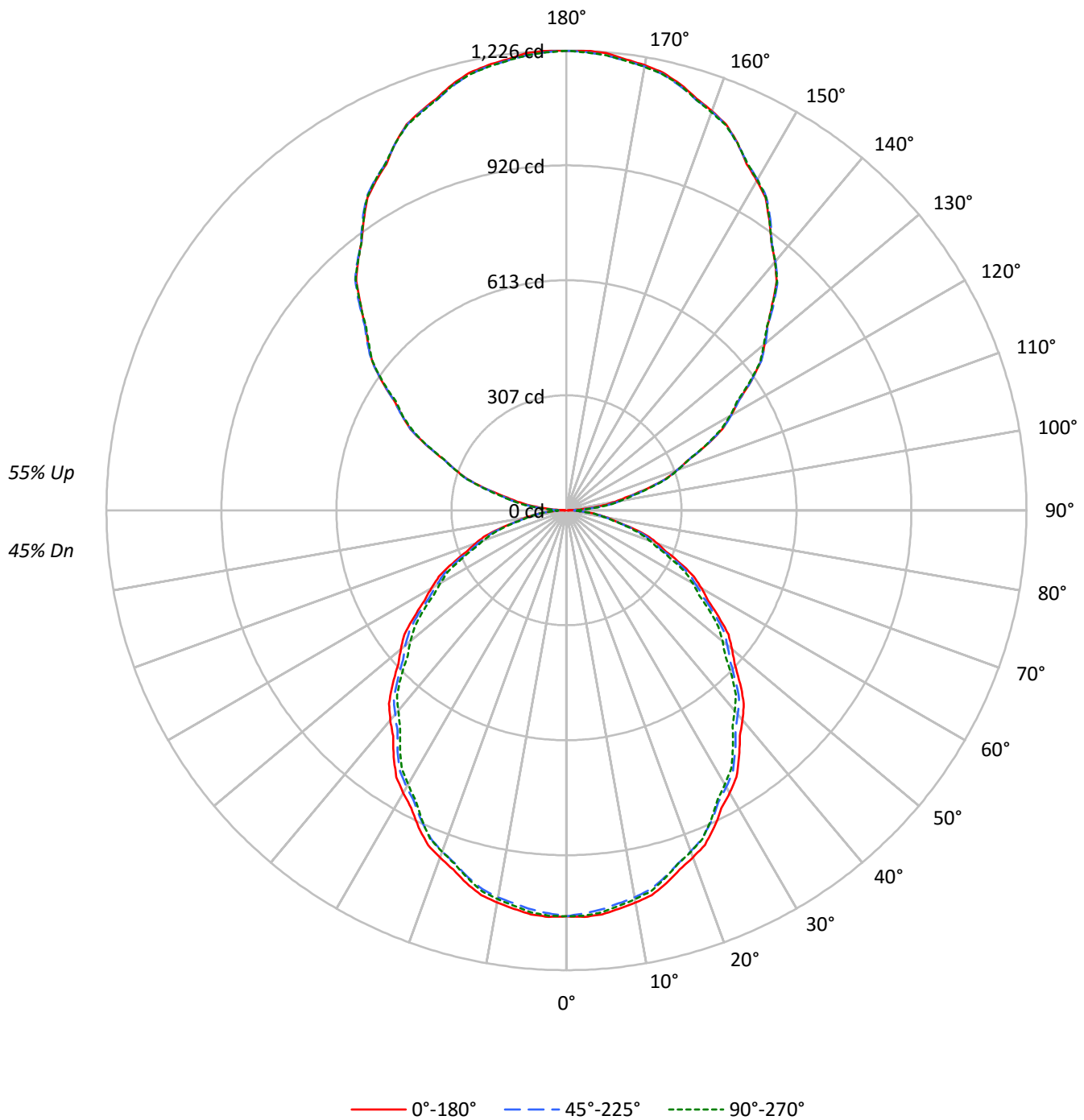
Input Watts (W): 56.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 65 | 65 | 65 | 52 | 52 | 52 |
| 1   | 97  | 92  | 88  | 85  | 88 | 85 | 81 | 78 | 71 | 68 | 66 | 57 | 56 | 54 | 45 | 44 | 43 |
| 2   | 88  | 81  | 74  | 69  | 80 | 74 | 69 | 64 | 62 | 58 | 55 | 50 | 48 | 45 | 40 | 38 | 37 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 45 | 41 | 38 | 35 | 33 | 31 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 45 | 48 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 28 | 29 | 26 | 23 |
| 6   | 62  | 50  | 42  | 36  | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 21 |
| 7   | 57  | 45  | 37  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 21 | 18 |
| 8   | 53  | 41  | 33  | 28  | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 |
| 9   | 49  | 37  | 30  | 25  | 45 | 35 | 28 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 20 | 17 | 15 |
| 10  | 46  | 34  | 27  | 22  | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 19 | 16 | 13 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8737 | 8737 | 8737 |
| 5°  | 8763 | 8658 | 8721 |
| 10° | 8708 | 8588 | 8630 |
| 15° | 8603 | 8466 | 8487 |
| 20° | 8463 | 8314 | 8322 |
| 25° | 8304 | 8141 | 8118 |
| 30° | 8108 | 7938 | 7866 |
| 35° | 7906 | 7727 | 7624 |
| 40° | 7695 | 7484 | 7347 |
| 45° | 7476 | 7247 | 7108 |
| 50° | 7232 | 7036 | 6818 |
| 55° | 6970 | 6763 | 6542 |
| 60° | 6707 | 6455 | 6260 |
| 65° | 6411 | 6162 | 5914 |
| 70° | 6080 | 5773 | 5549 |
| 75° | 5571 | 5303 | 5168 |
| 80° | 4956 | 4756 | 4635 |
| 85° | 4335 | 4177 | 4094 |

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.9  | 1.6       |
| 10°-20°   | 287.2  | 4.6       |
| 20°-30°   | 422.7  | 6.8       |
| 30°-40°   | 491.4  | 8.0       |
| 40°-50°   | 491.4  | 8.0       |
| 50°-60°   | 429.8  | 7.0       |
| 60°-70°   | 319.2  | 5.2       |
| 70°-80°   | 181.4  | 2.9       |
| 80°-90°   | 56.0   | 0.9       |
| 90°-100°  | 80.8   | 1.3       |
| 100°-110° | 239.3  | 3.9       |
| 110°-120° | 406.2  | 6.6       |
| 120°-130° | 535.6  | 8.7       |
| 130°-140° | 601.5  | 9.7       |
| 140°-150° | 591.0  | 9.6       |
| 150°-160° | 497.1  | 8.0       |
| 160°-170° | 330.7  | 5.4       |
| 170°-180° | 115.8  | 1.9       |
| 0°-30°    | 811.8  | 13.1      |
| 0°-40°    | 1303.1 | 21.1      |
| 0°-60°    | 2224.4 | 36.0      |
| 0°-90°    | 2780.9 | 45.0      |
| 90°-120°  | 726.2  | 11.8      |
| 90°-150°  | 2454.3 | 39.7      |
| 90°-180°  | 3398.0 | 55.0      |
| 0°-180°   | 6178.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1082 | 1082  | 1082 | 1082  | 1082 |      |
| 5°   | 1081 | 1078  | 1068 | 1077  | 1076 | 103  |
| 15°  | 1029 | 1025  | 1013 | 1018  | 1016 | 290  |
| 25°  | 932  | 926   | 914  | 915   | 911  | 429  |
| 35°  | 802  | 796   | 784  | 778   | 774  | 501  |
| 45°  | 655  | 648   | 635  | 626   | 623  | 505  |
| 55°  | 495  | 492   | 480  | 470   | 465  | 443  |
| 65°  | 336  | 331   | 323  | 314   | 310  | 332  |
| 75°  | 179  | 174   | 170  | 167   | 166  | 190  |
| 85°  | 47   | 47    | 45   | 45    | 44   | 52   |
| 90°  | 3    | 13    | 21   | 26    | 28   | 6    |
| 95°  | 57   | 65    | 72   | 75    | 75   | 63   |
| 105° | 221  | 222   | 225  | 228   | 231  | 234  |
| 115° | 413  | 413   | 411  | 410   | 409  | 407  |
| 125° | 601  | 601   | 600  | 599   | 597  | 536  |
| 135° | 776  | 781   | 782  | 780   | 777  | 600  |
| 145° | 942  | 946   | 947  | 946   | 944  | 590  |
| 155° | 1080 | 1080  | 1079 | 1082  | 1079 | 497  |
| 165° | 1176 | 1173  | 1171 | 1176  | 1173 | 331  |
| 175° | 1223 | 1218  | 1217 | 1223  | 1217 | 116  |
| 180° | 1225 | 1225  | 1225 | 1225  | 1225 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 |
| 2.5°   | 1085.1 | 1084.6 | 1084.1 | 1083.7 | 1083.2 | 1082.1 | 1080.4 | 1078.7 | 1077.0 | 1075.4 | 1076.8 |
| 5°     | 1081.4 | 1080.7 | 1079.9 | 1079.1 | 1078.3 | 1076.8 | 1074.7 | 1072.6 | 1070.5 | 1068.4 | 1070.5 |
| 7.5°   | 1071.4 | 1070.6 | 1069.8 | 1069.0 | 1068.3 | 1066.7 | 1064.4 | 1062.0 | 1059.6 | 1057.3 | 1059.0 |
| 10°    | 1062.3 | 1061.6 | 1060.8 | 1060.1 | 1059.2 | 1057.6 | 1055.1 | 1052.6 | 1050.1 | 1047.6 | 1049.1 |
| 12.5°  | 1050.5 | 1049.8 | 1049.0 | 1048.2 | 1047.5 | 1045.7 | 1043.1 | 1040.4 | 1037.8 | 1035.1 | 1036.8 |
| 15°    | 1029.4 | 1028.6 | 1027.8 | 1027.0 | 1026.3 | 1024.5 | 1021.6 | 1018.7 | 1015.8 | 1012.9 | 1014.1 |
| 17.5°  | 1003.9 | 1002.9 | 1001.9 | 1001.0 | 1000.0 | 998.2  | 995.5  | 992.7  | 989.9  | 987.2  | 988.0  |
| 20°    | 985.1  | 984.1  | 983.3  | 982.3  | 981.3  | 979.3  | 976.5  | 973.5  | 970.7  | 967.8  | 968.4  |
| 22.5°  | 965.1  | 963.8  | 962.5  | 961.2  | 959.9  | 957.9  | 955.0  | 952.1  | 949.2  | 946.3  | 947.4  |
| 25°    | 932.2  | 930.9  | 929.5  | 928.2  | 926.8  | 924.8  | 922.1  | 919.4  | 916.7  | 914.0  | 914.2  |
| 27.5°  | 894.8  | 893.4  | 892.0  | 890.6  | 889.2  | 887.3  | 884.8  | 882.3  | 879.8  | 877.3  | 876.8  |
| 30°    | 869.8  | 868.3  | 866.7  | 865.2  | 863.6  | 861.6  | 859.1  | 856.6  | 854.1  | 851.6  | 850.8  |
| 32.5°  | 843.4  | 842.0  | 840.7  | 839.3  | 837.9  | 835.8  | 833.2  | 830.5  | 827.9  | 825.2  | 824.3  |
| 35°    | 802.2  | 800.8  | 799.5  | 798.1  | 796.8  | 794.8  | 792.1  | 789.4  | 786.7  | 784.0  | 782.6  |
| 37.5°  | 758.6  | 757.4  | 756.2  | 755.0  | 753.7  | 751.6  | 748.8  | 745.8  | 743.0  | 740.0  | 738.6  |
| 40°    | 730.2  | 728.6  | 727.1  | 725.5  | 724.0  | 721.8  | 718.9  | 716.0  | 713.1  | 710.2  | 708.3  |
| 42.5°  | 699.7  | 698.7  | 697.8  | 696.9  | 695.9  | 693.9  | 690.7  | 687.5  | 684.3  | 681.1  | 678.9  |
| 45°    | 654.8  | 653.4  | 652.1  | 650.7  | 649.4  | 647.1  | 644.1  | 641.0  | 637.9  | 634.8  | 632.7  |
| 47.5°  | 607.7  | 606.8  | 605.9  | 605.0  | 604.1  | 602.2  | 599.3  | 596.5  | 593.6  | 590.8  | 588.3  |
| 50°    | 575.8  | 575.0  | 574.3  | 573.5  | 572.7  | 571.0  | 568.3  | 565.7  | 562.9  | 560.2  | 557.5  |
| 52.5°  | 544.6  | 543.7  | 542.7  | 541.8  | 540.9  | 539.0  | 536.1  | 533.3  | 530.4  | 527.6  | 525.2  |
| 55°    | 495.2  | 494.6  | 494.0  | 493.4  | 492.8  | 491.2  | 488.5  | 485.8  | 483.1  | 480.5  | 478.1  |
| 57.5°  | 448.0  | 447.4  | 446.7  | 446.1  | 445.4  | 443.7  | 441.1  | 438.4  | 435.8  | 433.1  | 430.9  |
| 60°    | 415.4  | 414.4  | 413.4  | 412.5  | 411.6  | 409.8  | 407.3  | 404.8  | 402.3  | 399.8  | 398.0  |
| 62.5°  | 383.5  | 382.7  | 381.9  | 381.1  | 380.3  | 378.5  | 375.9  | 373.2  | 370.6  | 367.9  | 366.3  |
| 65°    | 335.6  | 334.7  | 333.7  | 332.7  | 331.7  | 330.3  | 328.4  | 326.4  | 324.5  | 322.6  | 320.7  |
| 67.5°  | 287.4  | 286.5  | 285.6  | 284.7  | 283.9  | 282.5  | 280.6  | 278.8  | 277.0  | 275.1  | 273.2  |
| 70°    | 257.6  | 256.2  | 254.9  | 253.5  | 252.2  | 250.7  | 249.2  | 247.6  | 246.1  | 244.6  | 243.0  |
| 72.5°  | 225.7  | 224.3  | 223.0  | 221.6  | 220.2  | 219.0  | 217.8  | 216.5  | 215.2  | 214.0  | 212.8  |
| 75°    | 178.6  | 177.7  | 176.8  | 175.8  | 174.8  | 173.8  | 172.8  | 171.9  | 171.0  | 170.0  | 169.2  |
| 77.5°  | 133.7  | 133.3  | 132.9  | 132.5  | 132.0  | 131.4  | 130.5  | 129.7  | 128.8  | 128.0  | 127.8  |
| 80°    | 106.6  | 106.1  | 105.5  | 104.9  | 104.4  | 103.9  | 103.5  | 103.1  | 102.7  | 102.3  | 101.9  |
| 82.5°  | 80.3   | 80.1   | 79.7   | 79.5   | 79.2   | 79.1   | 79.0   | 78.9   | 78.8   | 78.8   | 78.5   |
| 85°    | 46.8   | 46.8   | 46.8   | 46.8   | 46.8   | 46.6   | 46.2   | 45.9   | 45.5   | 45.1   | 45.1   |
| 87.5°  | 18.6   | 18.9   | 19.2   | 19.6   | 19.8   | 20.1   | 20.3   | 20.5   | 20.6   | 20.8   | 21.0   |
| 90°    | 2.9    | 5.1    | 7.5    | 9.8    | 12.1   | 14.1   | 15.8   | 17.4   | 19.2   | 20.9   | 22.1   |
| 92.5°  | 20.3   | 22.9   | 25.6   | 28.2   | 30.9   | 32.8   | 34.0   | 35.1   | 36.4   | 37.5   | 38.2   |
| 95°    | 56.8   | 58.7   | 60.7   | 62.5   | 64.4   | 66.1   | 67.6   | 69.1   | 70.5   | 72.0   | 72.6   |
| 97.5°  | 99.3   | 100.8  | 102.3  | 103.8  | 105.3  | 107.0  | 108.7  | 110.4  | 112.1  | 113.8  | 114.6  |
| 100°   | 132.6  | 133.5  | 134.3  | 135.1  | 136.0  | 137.4  | 139.3  | 141.1  | 143.0  | 145.0  | 145.4  |
| 102.5° | 167.5  | 167.8  | 168.1  | 168.4  | 168.8  | 169.8  | 171.5  | 173.3  | 175.0  | 176.8  | 177.3  |
| 105°   | 220.7  | 220.9  | 221.1  | 221.4  | 221.5  | 222.1  | 222.9  | 223.7  | 224.6  | 225.4  | 226.1  |
| 107.5° | 276.5  | 276.9  | 277.1  | 277.4  | 277.6  | 277.8  | 277.9  | 278.0  | 278.2  | 278.3  | 278.9  |
| 110°   | 314.5  | 314.9  | 315.3  | 315.8  | 316.2  | 316.3  | 316.1  | 315.8  | 315.6  | 315.4  | 315.0  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 353.8  | 354.0  | 354.1  | 354.2  | 354.2  | 354.1  | 353.7  | 353.4  | 352.9  | 352.5  | 352.5  |
| 115°   | 412.9  | 412.9  | 412.9  | 412.9  | 412.9  | 412.8  | 412.4  | 412.0  | 411.5  | 411.1  | 410.9  |
| 117.5° | 468.7  | 468.9  | 469.0  | 469.2  | 469.4  | 469.3  | 469.0  | 468.7  | 468.4  | 468.1  | 467.4  |
| 120°   | 505.8  | 506.6  | 507.5  | 508.3  | 509.2  | 509.3  | 508.7  | 508.0  | 507.4  | 506.8  | 505.7  |
| 122.5° | 544.5  | 544.8  | 545.1  | 545.4  | 545.8  | 545.8  | 545.5  | 545.3  | 544.9  | 544.6  | 544.0  |
| 125°   | 601.4  | 601.4  | 601.4  | 601.4  | 601.4  | 601.4  | 601.2  | 601.0  | 600.7  | 600.5  | 600.1  |
| 127.5° | 653.2  | 653.9  | 654.4  | 655.1  | 655.7  | 655.9  | 655.5  | 655.2  | 654.8  | 654.5  | 654.1  |
| 130°   | 689.6  | 690.2  | 690.8  | 691.5  | 692.1  | 692.4  | 692.4  | 692.4  | 692.4  | 692.4  | 692.0  |
| 132.5° | 726.7  | 727.2  | 727.7  | 728.1  | 728.6  | 728.7  | 728.6  | 728.4  | 728.2  | 728.1  | 727.6  |
| 135°   | 775.8  | 777.1  | 778.3  | 779.6  | 780.8  | 781.5  | 781.5  | 781.5  | 781.5  | 781.5  | 781.1  |
| 137.5° | 829.2  | 829.8  | 830.4  | 831.0  | 831.5  | 832.0  | 832.3  | 832.7  | 833.0  | 833.3  | 832.8  |
| 140°   | 864.8  | 865.2  | 865.7  | 866.1  | 866.5  | 866.7  | 866.7  | 866.7  | 866.7  | 866.7  | 866.5  |
| 142.5° | 897.4  | 897.8  | 898.2  | 898.6  | 899.1  | 899.2  | 899.0  | 898.9  | 898.7  | 898.5  | 898.5  |
| 145°   | 942.5  | 943.3  | 944.2  | 945.0  | 945.8  | 946.4  | 946.6  | 946.8  | 947.0  | 947.2  | 947.0  |
| 147.5° | 987.2  | 988.2  | 989.2  | 990.2  | 991.2  | 991.6  | 991.5  | 991.3  | 991.2  | 991.0  | 990.8  |
| 150°   | 1014.5 | 1015.3 | 1016.2 | 1017.0 | 1017.8 | 1018.2 | 1018.2 | 1018.2 | 1018.2 | 1018.2 | 1018.2 |
| 152.5° | 1040.2 | 1040.7 | 1041.2 | 1041.7 | 1042.3 | 1042.6 | 1042.8 | 1042.9 | 1043.1 | 1043.3 | 1043.7 |
| 155°   | 1079.8 | 1079.8 | 1079.8 | 1079.8 | 1079.8 | 1079.7 | 1079.5 | 1079.3 | 1079.0 | 1078.9 | 1079.7 |
| 157.5° | 1113.1 | 1112.8 | 1112.4 | 1112.1 | 1111.7 | 1111.4 | 1111.4 | 1111.3 | 1111.3 | 1111.3 | 1111.9 |
| 160°   | 1132.9 | 1132.7 | 1132.5 | 1132.2 | 1132.0 | 1131.8 | 1131.6 | 1131.4 | 1131.1 | 1131.0 | 1131.6 |
| 162.5° | 1151.0 | 1150.5 | 1150.0 | 1149.4 | 1148.8 | 1148.5 | 1148.3 | 1148.1 | 1147.9 | 1147.6 | 1148.8 |
| 165°   | 1175.5 | 1174.8 | 1174.2 | 1173.6 | 1173.0 | 1172.4 | 1172.0 | 1171.6 | 1171.2 | 1170.8 | 1172.0 |
| 167.5° | 1194.3 | 1193.4 | 1192.5 | 1191.6 | 1190.7 | 1190.3 | 1190.3 | 1190.3 | 1190.4 | 1190.4 | 1191.7 |
| 170°   | 1204.8 | 1203.8 | 1202.7 | 1201.7 | 1200.6 | 1200.2 | 1200.4 | 1200.6 | 1200.9 | 1201.1 | 1202.3 |
| 172.5° | 1212.4 | 1211.5 | 1210.6 | 1209.7 | 1208.9 | 1208.4 | 1208.5 | 1208.6 | 1208.6 | 1208.7 | 1210.1 |
| 175°   | 1222.9 | 1221.8 | 1220.7 | 1219.7 | 1218.6 | 1218.0 | 1217.8 | 1217.6 | 1217.4 | 1217.2 | 1218.6 |
| 177.5° | 1226.3 | 1225.4 | 1224.6 | 1223.8 | 1222.9 | 1222.5 | 1222.5 | 1222.5 | 1222.5 | 1222.5 | 1223.7 |
| 180°   | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 |

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CATALOG NUMBER: SA4XXDIP-C795D1205U930-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 |
| 2.5°   | 1078.4 | 1079.9 | 1081.5 | 1082.2 | 1082.1 | 1081.9 | 1081.7 | 1081.6 |
| 5°     | 1072.6 | 1074.7 | 1076.8 | 1077.7 | 1077.3 | 1077.0 | 1076.6 | 1076.2 |
| 7.5°   | 1060.7 | 1062.4 | 1064.0 | 1064.8 | 1064.6 | 1064.4 | 1064.1 | 1063.9 |
| 10°    | 1050.7 | 1052.2 | 1053.8 | 1054.3 | 1053.9 | 1053.5 | 1053.2 | 1052.8 |
| 12.5°  | 1038.5 | 1040.2 | 1041.9 | 1042.4 | 1042.0 | 1041.4 | 1040.8 | 1040.3 |
| 15°    | 1015.2 | 1016.4 | 1017.5 | 1017.8 | 1017.2 | 1016.7 | 1016.1 | 1015.5 |
| 17.5°  | 988.7  | 989.4  | 990.2  | 990.3  | 989.9  | 989.5  | 989.2  | 988.8  |
| 20°    | 969.0  | 969.6  | 970.1  | 970.2  | 969.8  | 969.5  | 969.1  | 968.7  |
| 22.5°  | 948.4  | 949.4  | 950.5  | 950.6  | 949.9  | 949.3  | 948.5  | 947.9  |
| 25°    | 914.4  | 914.6  | 914.8  | 914.5  | 913.8  | 913.0  | 912.2  | 911.4  |
| 27.5°  | 876.4  | 875.9  | 875.4  | 874.7  | 873.8  | 872.8  | 871.8  | 870.8  |
| 30°    | 850.0  | 849.3  | 848.5  | 847.7  | 846.7  | 845.7  | 844.7  | 843.8  |
| 32.5°  | 823.4  | 822.5  | 821.6  | 820.6  | 819.6  | 818.6  | 817.7  | 816.8  |
| 35°    | 781.3  | 779.9  | 778.5  | 777.4  | 776.4  | 775.5  | 774.5  | 773.6  |
| 37.5°  | 737.1  | 735.6  | 734.3  | 732.9  | 731.6  | 730.3  | 729.0  | 727.7  |
| 40°    | 706.4  | 704.5  | 702.5  | 701.1  | 700.1  | 699.2  | 698.2  | 697.2  |
| 42.5°  | 676.6  | 674.4  | 672.1  | 670.7  | 670.1  | 669.4  | 668.8  | 668.1  |
| 45°    | 630.6  | 628.4  | 626.3  | 625.0  | 624.4  | 623.8  | 623.2  | 622.6  |
| 47.5°  | 586.0  | 583.6  | 581.1  | 579.3  | 577.8  | 576.3  | 574.9  | 573.4  |
| 50°    | 554.8  | 552.1  | 549.4  | 547.5  | 546.3  | 545.2  | 544.0  | 542.9  |
| 52.5°  | 522.9  | 520.4  | 518.0  | 516.2  | 514.7  | 513.2  | 511.8  | 510.3  |
| 55°    | 475.8  | 473.5  | 471.2  | 469.4  | 468.3  | 467.2  | 465.9  | 464.8  |
| 57.5°  | 428.7  | 426.5  | 424.3  | 422.7  | 421.5  | 420.4  | 419.3  | 418.2  |
| 60°    | 396.3  | 394.6  | 392.8  | 391.5  | 390.5  | 389.6  | 388.6  | 387.7  |
| 62.5°  | 364.7  | 363.1  | 361.6  | 360.3  | 359.3  | 358.3  | 357.4  | 356.4  |
| 65°    | 318.8  | 316.8  | 314.9  | 313.5  | 312.5  | 311.5  | 310.5  | 309.6  |
| 67.5°  | 271.4  | 269.5  | 267.7  | 266.6  | 266.4  | 266.1  | 265.8  | 265.5  |
| 70°    | 241.5  | 239.9  | 238.4  | 237.3  | 236.8  | 236.2  | 235.6  | 235.1  |
| 72.5°  | 211.6  | 210.3  | 209.1  | 208.2  | 207.6  | 207.0  | 206.4  | 205.9  |
| 75°    | 168.4  | 167.6  | 166.9  | 166.4  | 166.2  | 166.0  | 165.8  | 165.7  |
| 77.5°  | 127.5  | 127.3  | 127.1  | 126.7  | 126.2  | 125.7  | 125.2  | 124.7  |
| 80°    | 101.6  | 101.2  | 100.8  | 100.5  | 100.3  | 100.1  | 100.0  | 99.7   |
| 82.5°  | 78.3   | 78.0   | 77.8   | 77.6   | 77.5   | 77.2   | 77.0   | 76.8   |
| 85°    | 45.1   | 45.1   | 45.1   | 45.0   | 44.8   | 44.6   | 44.4   | 44.2   |
| 87.5°  | 21.4   | 21.6   | 21.9   | 22.0   | 22.1   | 22.2   | 22.3   | 22.3   |
| 90°    | 23.4   | 24.6   | 25.9   | 26.7   | 27.1   | 27.6   | 28.0   | 28.5   |
| 92.5°  | 39.1   | 39.8   | 40.5   | 41.0   | 41.3   | 41.6   | 41.8   | 42.1   |
| 95°    | 73.2   | 73.9   | 74.5   | 74.8   | 74.8   | 74.8   | 74.8   | 74.8   |
| 97.5°  | 115.4  | 116.1  | 116.9  | 117.2  | 117.2  | 117.2  | 117.2  | 117.2  |
| 100°   | 145.8  | 146.2  | 146.6  | 146.8  | 146.8  | 146.8  | 146.8  | 146.8  |
| 102.5° | 177.9  | 178.6  | 179.1  | 179.4  | 179.7  | 179.9  | 180.0  | 180.2  |
| 105°   | 226.7  | 227.3  | 228.0  | 228.6  | 229.3  | 229.8  | 230.5  | 231.1  |
| 107.5° | 279.5  | 280.1  | 280.6  | 281.0  | 280.9  | 280.9  | 280.8  | 280.8  |
| 110°   | 314.5  | 314.1  | 313.7  | 313.8  | 314.5  | 315.1  | 315.8  | 316.3  |

TEST NUMBER: P332623-930

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 352.4  | 352.3  | 352.2  | 352.2  | 352.4  | 352.5  | 352.6  | 352.8  |
| 115°   | 410.7  | 410.4  | 410.3  | 410.0  | 409.9  | 409.6  | 409.4  | 409.2  |
| 117.5° | 466.7  | 465.9  | 465.2  | 464.7  | 464.2  | 463.8  | 463.4  | 463.0  |
| 120°   | 504.7  | 503.6  | 502.6  | 502.2  | 502.6  | 503.0  | 503.5  | 503.9  |
| 122.5° | 543.2  | 542.5  | 541.8  | 541.0  | 540.3  | 539.6  | 538.7  | 538.0  |
| 125°   | 599.7  | 599.2  | 598.8  | 598.4  | 598.0  | 597.6  | 597.1  | 596.7  |
| 127.5° | 653.7  | 653.3  | 652.8  | 652.5  | 652.2  | 651.8  | 651.4  | 651.1  |
| 130°   | 691.5  | 691.1  | 690.7  | 690.1  | 689.3  | 688.4  | 687.5  | 686.7  |
| 132.5° | 727.2  | 726.8  | 726.4  | 725.9  | 725.6  | 725.3  | 725.0  | 724.6  |
| 135°   | 780.6  | 780.2  | 779.8  | 779.3  | 778.6  | 778.0  | 777.3  | 776.7  |
| 137.5° | 832.3  | 831.7  | 831.2  | 831.0  | 831.1  | 831.2  | 831.4  | 831.4  |
| 140°   | 866.3  | 866.1  | 865.8  | 865.7  | 865.4  | 865.2  | 865.0  | 864.8  |
| 142.5° | 898.5  | 898.4  | 898.4  | 898.3  | 898.3  | 898.2  | 898.2  | 898.1  |
| 145°   | 946.8  | 946.6  | 946.4  | 945.9  | 945.3  | 944.7  | 944.0  | 943.5  |
| 147.5° | 990.7  | 990.5  | 990.3  | 990.1  | 989.9  | 989.7  | 989.4  | 989.3  |
| 150°   | 1018.2 | 1018.2 | 1018.2 | 1018.1 | 1017.9 | 1017.7 | 1017.5 | 1017.3 |
| 152.5° | 1044.2 | 1044.8 | 1045.3 | 1045.3 | 1044.7 | 1044.2 | 1043.6 | 1043.1 |
| 155°   | 1080.6 | 1081.4 | 1082.2 | 1082.2 | 1081.4 | 1080.6 | 1079.7 | 1078.9 |
| 157.5° | 1112.6 | 1113.1 | 1113.8 | 1113.8 | 1113.0 | 1112.3 | 1111.6 | 1110.9 |
| 160°   | 1132.2 | 1132.9 | 1133.5 | 1133.3 | 1132.2 | 1131.1 | 1130.2 | 1129.1 |
| 162.5° | 1149.9 | 1151.0 | 1152.2 | 1152.3 | 1151.2 | 1150.1 | 1149.1 | 1148.0 |
| 165°   | 1173.3 | 1174.5 | 1175.8 | 1176.0 | 1175.2 | 1174.4 | 1173.5 | 1172.6 |
| 167.5° | 1192.9 | 1194.3 | 1195.5 | 1195.5 | 1194.2 | 1192.9 | 1191.6 | 1190.3 |
| 170°   | 1203.6 | 1204.8 | 1206.2 | 1206.0 | 1204.5 | 1203.1 | 1201.6 | 1200.1 |
| 172.5° | 1211.5 | 1212.9 | 1214.4 | 1214.4 | 1212.8 | 1211.4 | 1209.9 | 1208.4 |
| 175°   | 1220.1 | 1221.6 | 1223.0 | 1223.0 | 1221.6 | 1220.1 | 1218.6 | 1217.2 |
| 177.5° | 1224.8 | 1226.0 | 1227.2 | 1227.1 | 1225.7 | 1224.4 | 1223.0 | 1221.7 |
| 180°   | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 |

(END OF REPORT)