

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: P332624-935

Luminaire Tested: **SA4XXDIP-C795D1205U935-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332624-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C795D1205U935-4F0-1E-UDD-F4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

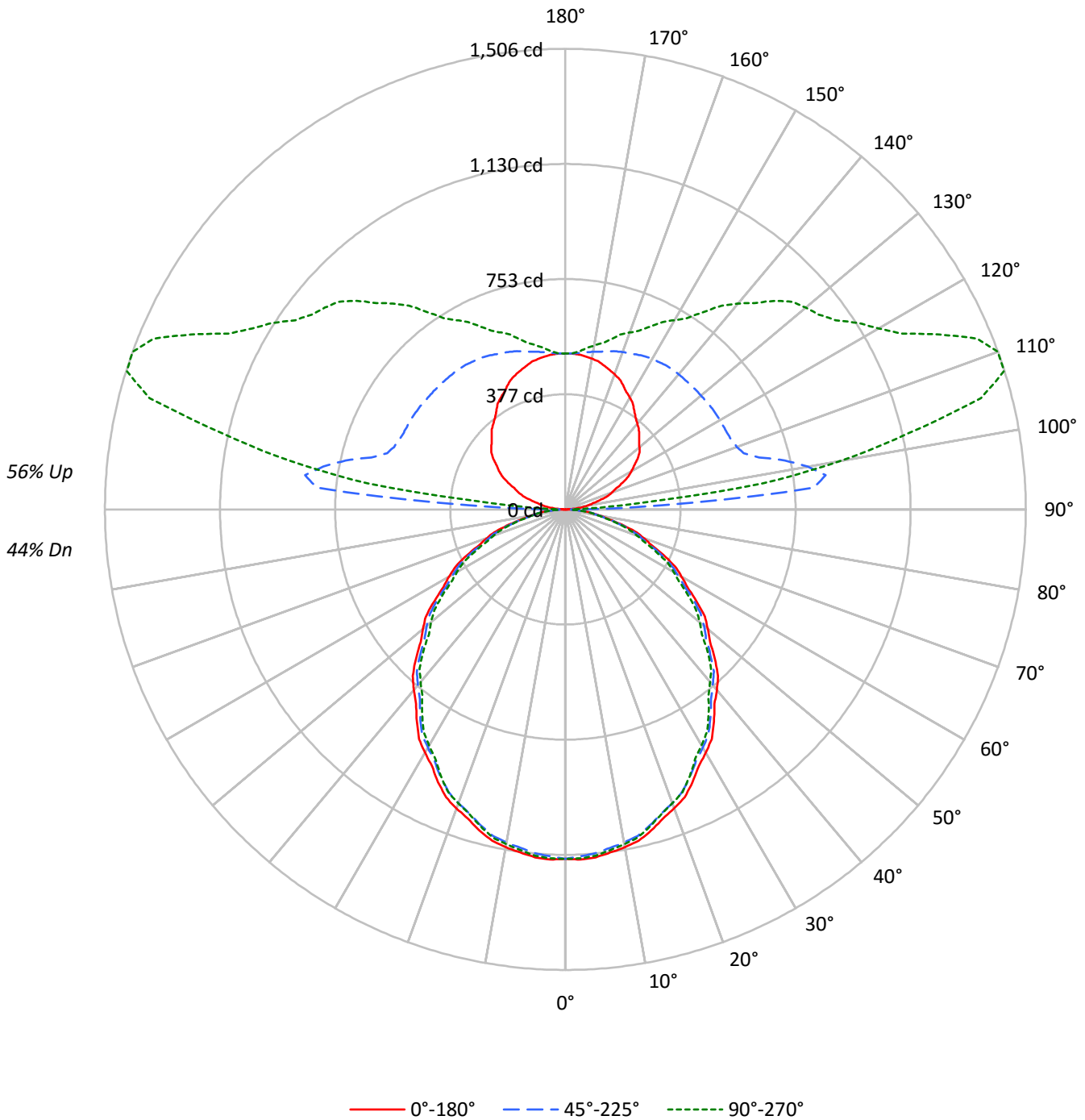
Lumens per Lamp: N/A  
Luminaire Lumens: 6639.5 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: General Diffuse

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



TEST NUMBER: P332624-935  
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### Luminous Intensity Polar Plot





TEST NUMBER: P332624-935

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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 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 44 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 96  | 92  | 88  | 85  | 88 | 84 | 81 | 78 | 70 | 68 | 66 | 57 | 55 | 54 | 45 | 44 | 43 | 37 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 88  | 80  | 74  | 69  | 80 | 74 | 69 | 64 | 61 | 58 | 54 | 50 | 47 | 45 | 39 | 38 | 36 | 31 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 80  | 71  | 63  | 58  | 73 | 65 | 59 | 54 | 54 | 49 | 46 | 44 | 41 | 38 | 35 | 33 | 31 | 26 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 45 | 48 | 43 | 39 | 39 | 36 | 33 | 31 | 29 | 26 | 23 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 | 43 | 38 | 33 | 35 | 31 | 28 | 28 | 25 | 23 | 20 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 62  | 50  | 42  | 36  | 56 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 20 | 17 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 57  | 45  | 37  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 18 | 15 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 53  | 41  | 33  | 28  | 48 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 16 | 14 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 20 | 17 | 15 | 12 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 46  | 34  | 27  | 22  | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |    |    |    |    |    |    |    |    |   |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9227 | 9227 | 9227 |
| 5°  | 9255 | 9143 | 9210 |
| 10° | 9197 | 9069 | 9114 |
| 15° | 9086 | 8940 | 8964 |
| 20° | 8937 | 8781 | 8789 |
| 25° | 8769 | 8598 | 8573 |
| 30° | 8563 | 8383 | 8307 |
| 35° | 8348 | 8159 | 8051 |
| 40° | 8126 | 7904 | 7759 |
| 45° | 7895 | 7654 | 7507 |
| 50° | 7637 | 7430 | 7200 |
| 55° | 7361 | 7142 | 6909 |
| 60° | 7083 | 6817 | 6610 |
| 65° | 6770 | 6508 | 6245 |
| 70° | 6420 | 6097 | 5858 |
| 75° | 5883 | 5599 | 5459 |
| 80° | 5235 | 5026 | 4895 |
| 85° | 4576 | 4409 | 4326 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 107.6  | 1.6       |
| 10°-20°   | 303.3  | 4.6       |
| 20°-30°   | 446.4  | 6.7       |
| 30°-40°   | 518.9  | 7.8       |
| 40°-50°   | 518.9  | 7.8       |
| 50°-60°   | 453.9  | 6.8       |
| 60°-70°   | 337.1  | 5.1       |
| 70°-80°   | 191.5  | 2.9       |
| 80°-90°   | 58.1   | 0.9       |
| 90°-100°  | 367.8  | 5.5       |
| 100°-110° | 765.5  | 11.5      |
| 110°-120° | 685.7  | 10.3      |
| 120°-130° | 576.8  | 8.7       |
| 130°-140° | 480.9  | 7.2       |
| 140°-150° | 367.4  | 5.5       |
| 150°-160° | 258.2  | 3.9       |
| 160°-170° | 151.9  | 2.3       |
| 170°-180° | 49.4   | 0.7       |
| 0°-30°    | 857.3  | 12.9      |
| 0°-40°    | 1376.2 | 20.7      |
| 0°-60°    | 2349.1 | 35.4      |
| 0°-90°    | 2935.8 | 44.2      |
| 90°-120°  | 1819.0 | 27.4      |
| 90°-150°  | 3244.1 | 48.9      |
| 90°-180°  | 3704.0 | 55.8      |
| 0°-180°   | 6639.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1143 | 1143  | 1143 | 1143  | 1143 |      |
| 5°   | 1142 | 1138  | 1128 | 1138  | 1136 | 108  |
| 15°  | 1087 | 1083  | 1070 | 1075  | 1072 | 306  |
| 25°  | 984  | 978   | 965  | 966   | 962  | 453  |
| 35°  | 847  | 840   | 828  | 822   | 817  | 529  |
| 45°  | 692  | 685   | 670  | 661   | 658  | 533  |
| 55°  | 523  | 520   | 507  | 497   | 491  | 468  |
| 65°  | 354  | 350   | 341  | 332   | 327  | 351  |
| 75°  | 189  | 184   | 180  | 176   | 175  | 200  |
| 85°  | 49   | 49    | 48   | 48    | 47   | 54   |
| 90°  | 1    | 8     | 18   | 20    | 21   | 4    |
| 95°  | 33   | 104   | 815  | 404   | 244  | 37   |
| 105° | 117  | 170   | 656  | 1413  | 1408 | 125  |
| 115° | 206  | 259   | 585  | 1125  | 1352 | 204  |
| 125° | 287  | 341   | 582  | 957   | 1078 | 256  |
| 135° | 341  | 406   | 577  | 849   | 964  | 264  |
| 145° | 393  | 450   | 574  | 716   | 787  | 247  |
| 155° | 447  | 483   | 558  | 632   | 659  | 206  |
| 165° | 487  | 502   | 535  | 567   | 575  | 138  |
| 175° | 508  | 509   | 513  | 520   | 518  | 48   |
| 180° | 509  | 509   | 509  | 509   | 509  |      |



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CATALOG NUMBER: SA4XXDIP-C795D1205U935-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1143.0 | 1143.0 | 1143.0 | 1143.0 | 1143.0 | 1143.0 | 1143.0 | 1143.0 | 1143.0 | 1143.0 | 1143.0 |
| 2.5°   | 1145.9 | 1145.4 | 1144.9 | 1144.4 | 1143.9 | 1142.8 | 1141.0 | 1139.2 | 1137.4 | 1135.7 | 1137.2 |
| 5°     | 1142.0 | 1141.3 | 1140.4 | 1139.6 | 1138.8 | 1137.2 | 1135.0 | 1132.7 | 1130.5 | 1128.3 | 1130.5 |
| 7.5°   | 1131.4 | 1130.6 | 1129.8 | 1128.9 | 1128.2 | 1126.5 | 1124.0 | 1121.5 | 1119.0 | 1116.5 | 1118.4 |
| 10°    | 1121.9 | 1121.1 | 1120.2 | 1119.5 | 1118.6 | 1116.9 | 1114.2 | 1111.6 | 1109.0 | 1106.3 | 1107.9 |
| 12.5°  | 1109.4 | 1108.6 | 1107.8 | 1107.0 | 1106.2 | 1104.3 | 1101.6 | 1098.7 | 1096.0 | 1093.1 | 1094.9 |
| 15°    | 1087.1 | 1086.2 | 1085.5 | 1084.6 | 1083.8 | 1081.9 | 1078.8 | 1075.8 | 1072.7 | 1069.7 | 1070.9 |
| 17.5°  | 1060.1 | 1059.1 | 1058.1 | 1057.1 | 1056.1 | 1054.1 | 1051.3 | 1048.4 | 1045.4 | 1042.6 | 1043.4 |
| 20°    | 1040.3 | 1039.3 | 1038.4 | 1037.3 | 1036.3 | 1034.2 | 1031.2 | 1028.1 | 1025.1 | 1022.1 | 1022.7 |
| 22.5°  | 1019.2 | 1017.8 | 1016.4 | 1015.1 | 1013.7 | 1011.6 | 1008.5 | 1005.5 | 1002.4 | 999.4  | 1000.5 |
| 25°    | 984.5  | 983.1  | 981.6  | 980.2  | 978.8  | 976.6  | 973.8  | 970.9  | 968.1  | 965.3  | 965.4  |
| 27.5°  | 944.9  | 943.5  | 942.0  | 940.6  | 939.1  | 937.0  | 934.4  | 931.8  | 929.1  | 926.4  | 925.9  |
| 30°    | 918.6  | 917.0  | 915.3  | 913.7  | 912.1  | 909.9  | 907.2  | 904.7  | 902.0  | 899.3  | 898.5  |
| 32.5°  | 890.7  | 889.2  | 887.8  | 886.3  | 884.8  | 882.7  | 879.9  | 877.1  | 874.3  | 871.5  | 870.6  |
| 35°    | 847.1  | 845.7  | 844.3  | 842.8  | 841.5  | 839.3  | 836.5  | 833.6  | 830.8  | 827.9  | 826.5  |
| 37.5°  | 801.2  | 799.9  | 798.6  | 797.3  | 795.9  | 793.8  | 790.7  | 787.6  | 784.6  | 781.5  | 780.0  |
| 40°    | 771.1  | 769.5  | 767.8  | 766.2  | 764.6  | 762.2  | 759.2  | 756.1  | 753.1  | 750.0  | 748.0  |
| 42.5°  | 738.9  | 737.9  | 736.9  | 736.0  | 734.9  | 732.8  | 729.4  | 726.1  | 722.6  | 719.3  | 717.0  |
| 45°    | 691.5  | 690.0  | 688.6  | 687.2  | 685.8  | 683.4  | 680.2  | 676.9  | 673.6  | 670.4  | 668.1  |
| 47.5°  | 641.8  | 640.8  | 639.9  | 638.9  | 637.9  | 635.9  | 632.9  | 629.9  | 626.9  | 623.9  | 621.3  |
| 50°    | 608.1  | 607.3  | 606.5  | 605.6  | 604.9  | 603.0  | 600.2  | 597.4  | 594.4  | 591.6  | 588.8  |
| 52.5°  | 575.1  | 574.2  | 573.2  | 572.2  | 571.2  | 569.2  | 566.2  | 563.2  | 560.2  | 557.2  | 554.7  |
| 55°    | 523.0  | 522.3  | 521.7  | 521.1  | 520.5  | 518.8  | 515.9  | 513.1  | 510.2  | 507.4  | 504.9  |
| 57.5°  | 473.1  | 472.4  | 471.7  | 471.1  | 470.4  | 468.6  | 465.8  | 463.0  | 460.2  | 457.4  | 455.0  |
| 60°    | 438.7  | 437.6  | 436.6  | 435.7  | 434.6  | 432.7  | 430.2  | 427.5  | 424.8  | 422.2  | 420.3  |
| 62.5°  | 405.0  | 404.2  | 403.3  | 402.4  | 401.6  | 399.8  | 396.9  | 394.1  | 391.3  | 388.5  | 386.8  |
| 65°    | 354.4  | 353.4  | 352.4  | 351.4  | 350.3  | 348.8  | 346.8  | 344.7  | 342.7  | 340.7  | 338.6  |
| 67.5°  | 303.5  | 302.6  | 301.6  | 300.7  | 299.8  | 298.3  | 296.4  | 294.4  | 292.5  | 290.5  | 288.5  |
| 70°    | 272.0  | 270.6  | 269.1  | 267.7  | 266.3  | 264.8  | 263.1  | 261.5  | 259.8  | 258.3  | 256.7  |
| 72.5°  | 238.3  | 236.9  | 235.5  | 234.0  | 232.6  | 231.3  | 230.0  | 228.6  | 227.3  | 226.0  | 224.7  |
| 75°    | 188.6  | 187.6  | 186.7  | 185.6  | 184.6  | 183.6  | 182.5  | 181.5  | 180.6  | 179.5  | 178.7  |
| 77.5°  | 141.2  | 140.8  | 140.3  | 139.9  | 139.4  | 138.8  | 137.8  | 137.0  | 136.0  | 135.2  | 134.9  |
| 80°    | 112.6  | 112.0  | 111.4  | 110.8  | 110.2  | 109.7  | 109.3  | 108.9  | 108.5  | 108.1  | 107.6  |
| 82.5°  | 84.8   | 84.6   | 84.2   | 83.9   | 83.7   | 83.5   | 83.4   | 83.3   | 83.3   | 83.2   | 82.9   |
| 85°    | 49.4   | 49.4   | 49.4   | 49.4   | 49.4   | 49.2   | 48.8   | 48.5   | 48.0   | 47.6   | 47.6   |
| 87.5°  | 19.3   | 19.5   | 19.9   | 20.0   | 20.0   | 19.8   | 20.8   | 20.8   | 20.9   | 21.2   | 21.0   |
| 90°    | 1.0    | 3.0    | 6.0    | 7.0    | 8.0    | 8.0    | 14.0   | 14.0   | 16.0   | 18.0   | 17.0   |
| 92.5°  | 11.4   | 16.6   | 26.0   | 38.2   | 52.9   | 73.6   | 124.5  | 202.1  | 277.8  | 317.4  | 264.3  |
| 95°    | 33.0   | 36.0   | 46.1   | 59.1   | 83.0   | 125.1  | 212.1  | 376.2  | 615.3  | 815.4  | 838.4  |
| 97.5°  | 59.2   | 59.2   | 67.8   | 79.8   | 100.5  | 135.7  | 202.7  | 338.2  | 575.8  | 858.8  | 1053.3 |
| 100°   | 76.0   | 76.0   | 83.0   | 95.1   | 114.1  | 146.1  | 205.1  | 318.1  | 522.3  | 804.3  | 1060.5 |
| 102.5° | 92.0   | 93.7   | 99.9   | 111.1  | 129.2  | 159.7  | 213.1  | 312.5  | 486.2  | 736.3  | 1000.5 |
| 105°   | 117.1  | 120.0  | 125.1  | 137.1  | 155.1  | 184.1  | 232.1  | 315.1  | 455.2  | 656.3  | 891.4  |
| 107.5° | 144.6  | 146.6  | 151.7  | 164.5  | 181.7  | 210.3  | 254.3  | 329.9  | 449.6  | 611.5  | 803.4  |
| 110°   | 163.1  | 165.1  | 170.0  | 182.1  | 200.1  | 227.1  | 271.1  | 341.1  | 451.3  | 596.3  | 759.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 180.7 | 182.7 | 188.5 | 199.7 | 217.7 | 244.7 | 287.1 | 353.2 | 456.0 | 589.1 | 734.5 |
| 115°   | 206.1 | 209.1 | 216.1 | 226.1 | 245.1 | 272.2 | 312.1 | 372.2 | 465.2 | 585.3 | 711.4 |
| 117.5° | 232.5 | 235.3 | 241.5 | 252.5 | 270.4 | 298.3 | 336.4 | 391.6 | 475.0 | 584.3 | 700.9 |
| 120°   | 250.1 | 252.1 | 259.2 | 270.1 | 287.1 | 315.1 | 353.2 | 405.2 | 482.2 | 584.3 | 695.3 |
| 122.5° | 266.1 | 268.1 | 275.2 | 285.3 | 303.9 | 331.1 | 369.2 | 418.0 | 489.5 | 583.5 | 689.0 |
| 125°   | 287.1 | 291.1 | 297.1 | 308.2 | 327.2 | 355.2 | 391.2 | 437.2 | 500.2 | 582.3 | 678.3 |
| 127.5° | 305.7 | 308.9 | 316.2 | 328.7 | 348.5 | 376.8 | 411.6 | 453.8 | 508.9 | 580.1 | 664.1 |
| 130°   | 316.2 | 320.1 | 328.1 | 343.2 | 362.1 | 391.2 | 425.2 | 464.3 | 515.2 | 579.3 | 655.3 |
| 132.5° | 326.6 | 329.8 | 340.2 | 354.4 | 375.0 | 402.4 | 436.4 | 474.7 | 520.8 | 578.5 | 647.3 |
| 135°   | 341.1 | 345.2 | 355.2 | 372.2 | 393.2 | 419.2 | 452.2 | 488.3 | 529.3 | 577.3 | 635.3 |
| 137.5° | 355.8 | 359.6 | 370.6 | 386.8 | 408.6 | 433.4 | 464.3 | 497.8 | 534.3 | 577.0 | 624.9 |
| 140°   | 366.2 | 369.2 | 380.2 | 397.2 | 418.2 | 442.2 | 472.3 | 504.2 | 538.3 | 576.3 | 619.3 |
| 142.5° | 377.4 | 380.4 | 390.5 | 406.8 | 427.0 | 450.2 | 479.4 | 509.0 | 541.5 | 576.3 | 614.5 |
| 145°   | 393.2 | 396.2 | 406.2 | 420.2 | 439.2 | 461.2 | 487.2 | 514.3 | 543.3 | 574.3 | 606.3 |
| 147.5° | 411.0 | 412.0 | 420.8 | 435.2 | 451.0 | 470.8 | 495.2 | 518.8 | 544.2 | 570.7 | 598.9 |
| 150°   | 422.2 | 423.2 | 431.2 | 443.2 | 458.2 | 477.3 | 499.2 | 521.2 | 544.2 | 568.3 | 593.3 |
| 152.5° | 432.6 | 432.8 | 440.8 | 452.0 | 465.5 | 482.8 | 502.5 | 522.9 | 542.7 | 564.3 | 586.9 |
| 155°   | 447.2 | 448.2 | 454.2 | 464.3 | 475.3 | 490.3 | 507.2 | 524.3 | 540.3 | 558.3 | 577.3 |
| 157.5° | 461.4 | 461.4 | 467.0 | 474.8 | 484.4 | 496.3 | 510.7 | 524.3 | 537.7 | 552.1 | 567.5 |
| 160°   | 470.2 | 470.2 | 474.2 | 481.2 | 489.2 | 500.2 | 512.2 | 524.3 | 535.3 | 547.3 | 560.3 |
| 162.5° | 478.2 | 477.4 | 480.6 | 486.8 | 494.0 | 502.7 | 513.8 | 524.3 | 532.9 | 542.4 | 553.9 |
| 165°   | 487.2 | 487.2 | 489.2 | 494.2 | 499.2 | 505.2 | 514.3 | 522.3 | 528.2 | 535.3 | 543.3 |
| 167.5° | 496.3 | 495.2 | 496.3 | 500.1 | 502.8 | 507.5 | 514.0 | 519.9 | 523.5 | 528.1 | 533.6 |
| 170°   | 500.2 | 499.2 | 500.2 | 503.3 | 505.2 | 508.2 | 513.2 | 518.2 | 520.2 | 523.2 | 527.3 |
| 172.5° | 504.2 | 503.3 | 503.4 | 505.7 | 506.9 | 509.0 | 512.5 | 516.7 | 517.0 | 518.4 | 521.7 |
| 175°   | 508.2 | 507.2 | 507.2 | 508.2 | 509.3 | 509.3 | 511.3 | 514.3 | 513.2 | 513.2 | 515.2 |
| 177.5° | 510.1 | 509.3 | 508.4 | 509.3 | 509.3 | 509.3 | 510.1 | 511.6 | 510.1 | 510.1 | 510.8 |
| 180°   | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 |



TEST NUMBER: P332624-935

CATALOG NUMBER: SA4XXDIP-C795D1205U935-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1143.0 | 1143.0 | 1143.0 | 1143.0 | 1143.0 | 1143.0 | 1143.0 | 1143.0 |
| 2.5°   | 1138.8 | 1140.5 | 1142.1 | 1142.9 | 1142.7 | 1142.5 | 1142.4 | 1142.2 |
| 5°     | 1132.7 | 1135.0 | 1137.2 | 1138.2 | 1137.7 | 1137.4 | 1137.0 | 1136.5 |
| 7.5°   | 1120.2 | 1122.0 | 1123.7 | 1124.5 | 1124.3 | 1124.0 | 1123.8 | 1123.5 |
| 10°    | 1109.6 | 1111.2 | 1112.8 | 1113.4 | 1113.0 | 1112.6 | 1112.2 | 1111.8 |
| 12.5°  | 1096.7 | 1098.5 | 1100.3 | 1100.9 | 1100.4 | 1099.8 | 1099.2 | 1098.6 |
| 15°    | 1072.1 | 1073.3 | 1074.5 | 1074.9 | 1074.3 | 1073.7 | 1073.1 | 1072.5 |
| 17.5°  | 1044.1 | 1044.9 | 1045.7 | 1045.9 | 1045.4 | 1045.0 | 1044.7 | 1044.2 |
| 20°    | 1023.3 | 1023.9 | 1024.5 | 1024.6 | 1024.2 | 1023.8 | 1023.4 | 1023.0 |
| 22.5°  | 1001.5 | 1002.6 | 1003.8 | 1003.9 | 1003.2 | 1002.5 | 1001.7 | 1001.0 |
| 25°    | 965.7  | 965.9  | 966.1  | 965.8  | 965.0  | 964.1  | 963.4  | 962.5  |
| 27.5°  | 925.5  | 925.0  | 924.5  | 923.8  | 922.7  | 921.7  | 920.7  | 919.6  |
| 30°    | 897.7  | 896.9  | 896.0  | 895.2  | 894.1  | 893.1  | 892.1  | 891.1  |
| 32.5°  | 869.5  | 868.6  | 867.6  | 866.6  | 865.6  | 864.5  | 863.5  | 862.5  |
| 35°    | 825.1  | 823.6  | 822.2  | 821.0  | 819.9  | 819.0  | 817.9  | 816.9  |
| 37.5°  | 778.4  | 776.9  | 775.4  | 774.0  | 772.6  | 771.3  | 769.9  | 768.5  |
| 40°    | 746.0  | 744.0  | 741.9  | 740.4  | 739.3  | 738.4  | 737.4  | 736.3  |
| 42.5°  | 714.5  | 712.2  | 709.8  | 708.3  | 707.7  | 707.0  | 706.3  | 705.6  |
| 45°    | 665.9  | 663.7  | 661.4  | 660.0  | 659.4  | 658.8  | 658.1  | 657.5  |
| 47.5°  | 618.8  | 616.3  | 613.7  | 611.7  | 610.2  | 608.6  | 607.1  | 605.5  |
| 50°    | 585.9  | 583.1  | 580.2  | 578.2  | 577.0  | 575.8  | 574.5  | 573.3  |
| 52.5°  | 552.2  | 549.6  | 547.1  | 545.1  | 543.5  | 542.0  | 540.4  | 538.9  |
| 55°    | 502.5  | 500.1  | 497.6  | 495.8  | 494.6  | 493.4  | 492.1  | 490.9  |
| 57.5°  | 452.7  | 450.4  | 448.1  | 446.3  | 445.1  | 443.9  | 442.8  | 441.6  |
| 60°    | 418.5  | 416.7  | 414.8  | 413.5  | 412.4  | 411.4  | 410.4  | 409.4  |
| 62.5°  | 385.1  | 383.5  | 381.9  | 380.5  | 379.4  | 378.4  | 377.5  | 376.4  |
| 65°    | 336.7  | 334.6  | 332.5  | 331.1  | 330.0  | 329.0  | 328.0  | 326.9  |
| 67.5°  | 286.6  | 284.6  | 282.7  | 281.5  | 281.3  | 281.0  | 280.7  | 280.4  |
| 70°    | 255.0  | 253.4  | 251.8  | 250.6  | 250.0  | 249.4  | 248.8  | 248.2  |
| 72.5°  | 223.4  | 222.1  | 220.8  | 219.9  | 219.2  | 218.6  | 218.0  | 217.4  |
| 75°    | 177.9  | 177.0  | 176.2  | 175.7  | 175.6  | 175.3  | 175.1  | 175.0  |
| 77.5°  | 134.7  | 134.4  | 134.2  | 133.8  | 133.3  | 132.8  | 132.2  | 131.7  |
| 80°    | 107.3  | 106.9  | 106.4  | 106.2  | 105.9  | 105.7  | 105.6  | 105.3  |
| 82.5°  | 82.7   | 82.4   | 82.1   | 82.0   | 81.8   | 81.5   | 81.4   | 81.1   |
| 85°    | 47.6   | 47.6   | 47.6   | 47.5   | 47.4   | 47.1   | 46.9   | 46.7   |
| 87.5°  | 21.2   | 21.4   | 21.6   | 21.6   | 21.8   | 22.0   | 21.8   | 21.8   |
| 90°    | 18.0   | 19.0   | 20.0   | 20.0   | 21.0   | 22.0   | 21.0   | 21.0   |
| 92.5°  | 196.5  | 147.8  | 117.7  | 97.6   | 85.8   | 80.4   | 77.1   | 77.1   |
| 95°    | 741.3  | 586.3  | 452.2  | 355.2  | 306.2  | 275.2  | 257.1  | 244.1  |
| 97.5°  | 1095.4 | 1037.7 | 939.9  | 835.4  | 763.5  | 703.4  | 673.3  | 652.6  |
| 100°   | 1206.6 | 1226.6 | 1177.6 | 1103.5 | 1016.5 | 955.5  | 925.5  | 917.5  |
| 102.5° | 1201.0 | 1300.2 | 1314.4 | 1283.6 | 1230.2 | 1185.9 | 1154.3 | 1148.0 |
| 105°   | 1120.5 | 1293.7 | 1392.7 | 1433.7 | 1435.7 | 1427.7 | 1413.7 | 1407.6 |
| 107.5° | 1006.3 | 1190.6 | 1330.1 | 1419.3 | 1468.7 | 1491.5 | 1501.5 | 1504.2 |
| 110°   | 937.5  | 1110.5 | 1255.6 | 1365.6 | 1436.7 | 1478.7 | 1496.8 | 1505.7 |





TEST NUMBER: P332624-935

CATALOG NUMBER: SA4XXDIP-C795D1205U935-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 887.0 | 1040.1 | 1177.2 | 1287.2 | 1367.9 | 1418.7 | 1443.9 | 1458.5 |
| 115°   | 836.4 | 959.5  | 1076.5 | 1172.6 | 1251.6 | 1311.6 | 1343.7 | 1351.7 |
| 117.5° | 811.6 | 913.4  | 1005.5 | 1086.9 | 1154.3 | 1204.8 | 1237.2 | 1243.4 |
| 120°   | 800.4 | 893.5  | 973.4  | 1044.5 | 1101.6 | 1145.6 | 1171.6 | 1182.6 |
| 122.5° | 790.7 | 880.6  | 953.5  | 1015.7 | 1063.9 | 1101.6 | 1123.5 | 1134.5 |
| 125°   | 774.4 | 860.4  | 929.4  | 984.5  | 1024.5 | 1053.5 | 1072.5 | 1078.5 |
| 127.5° | 754.3 | 836.6  | 905.4  | 957.7  | 997.9  | 1023.7 | 1039.7 | 1045.7 |
| 130°   | 738.4 | 817.4  | 885.5  | 938.5  | 979.5  | 1004.4 | 1020.5 | 1026.5 |
| 132.5° | 721.5 | 795.8  | 862.2  | 915.2  | 955.5  | 983.7  | 998.8  | 1004.9 |
| 135°   | 698.4 | 763.4  | 824.4  | 874.4  | 914.5  | 942.5  | 958.5  | 964.5  |
| 137.5° | 677.3 | 732.4  | 783.8  | 829.0  | 866.4  | 894.1  | 907.2  | 914.5  |
| 140°   | 665.3 | 712.3  | 757.3  | 799.4  | 834.4  | 856.4  | 870.4  | 878.4  |
| 142.5° | 654.1 | 695.5  | 734.2  | 770.6  | 801.6  | 822.0  | 834.4  | 840.0  |
| 145°   | 638.3 | 672.4  | 702.3  | 730.4  | 755.4  | 772.4  | 782.4  | 787.4  |
| 147.5° | 625.3 | 652.3  | 676.3  | 698.4  | 716.8  | 731.3  | 739.0  | 740.7  |
| 150°   | 617.3 | 640.3  | 660.3  | 678.3  | 694.3  | 707.3  | 713.3  | 714.4  |
| 152.5° | 608.5 | 628.3  | 646.7  | 661.5  | 675.1  | 685.7  | 689.3  | 690.3  |
| 155°   | 595.3 | 611.3  | 626.3  | 638.3  | 648.3  | 656.3  | 659.4  | 659.4  |
| 157.5° | 581.1 | 594.5  | 607.1  | 616.7  | 624.3  | 630.3  | 632.1  | 632.1  |
| 160°   | 572.3 | 583.2  | 594.3  | 602.3  | 608.3  | 614.3  | 615.3  | 615.3  |
| 162.5° | 563.4 | 572.9  | 581.5  | 588.7  | 593.1  | 599.1  | 600.1  | 599.3  |
| 165°   | 551.3 | 557.2  | 564.3  | 569.3  | 573.3  | 577.3  | 576.3  | 575.3  |
| 167.5° | 539.5 | 544.1  | 549.7  | 552.7  | 554.7  | 557.2  | 557.1  | 556.3  |
| 170°   | 532.3 | 535.3  | 539.2  | 542.3  | 544.2  | 545.3  | 544.2  | 544.2  |
| 172.5° | 525.8 | 528.1  | 530.5  | 532.6  | 533.8  | 534.9  | 533.8  | 532.3  |
| 175°   | 517.3 | 518.2  | 520.2  | 520.2  | 520.2  | 522.3  | 520.2  | 518.2  |
| 177.5° | 511.6 | 512.5  | 512.5  | 513.2  | 512.5  | 513.2  | 511.6  | 510.1  |
| 180°   | 509.3 | 509.3  | 509.3  | 509.3  | 509.3  | 509.3  | 509.3  | 509.3  |

(END OF REPORT)