

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: P332849-930

Luminaire Tested: **S124DIW-S1195D1050U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332849-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIW-S1195D1050U930-4F0-1E-UDD-D  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1050 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7382.6 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

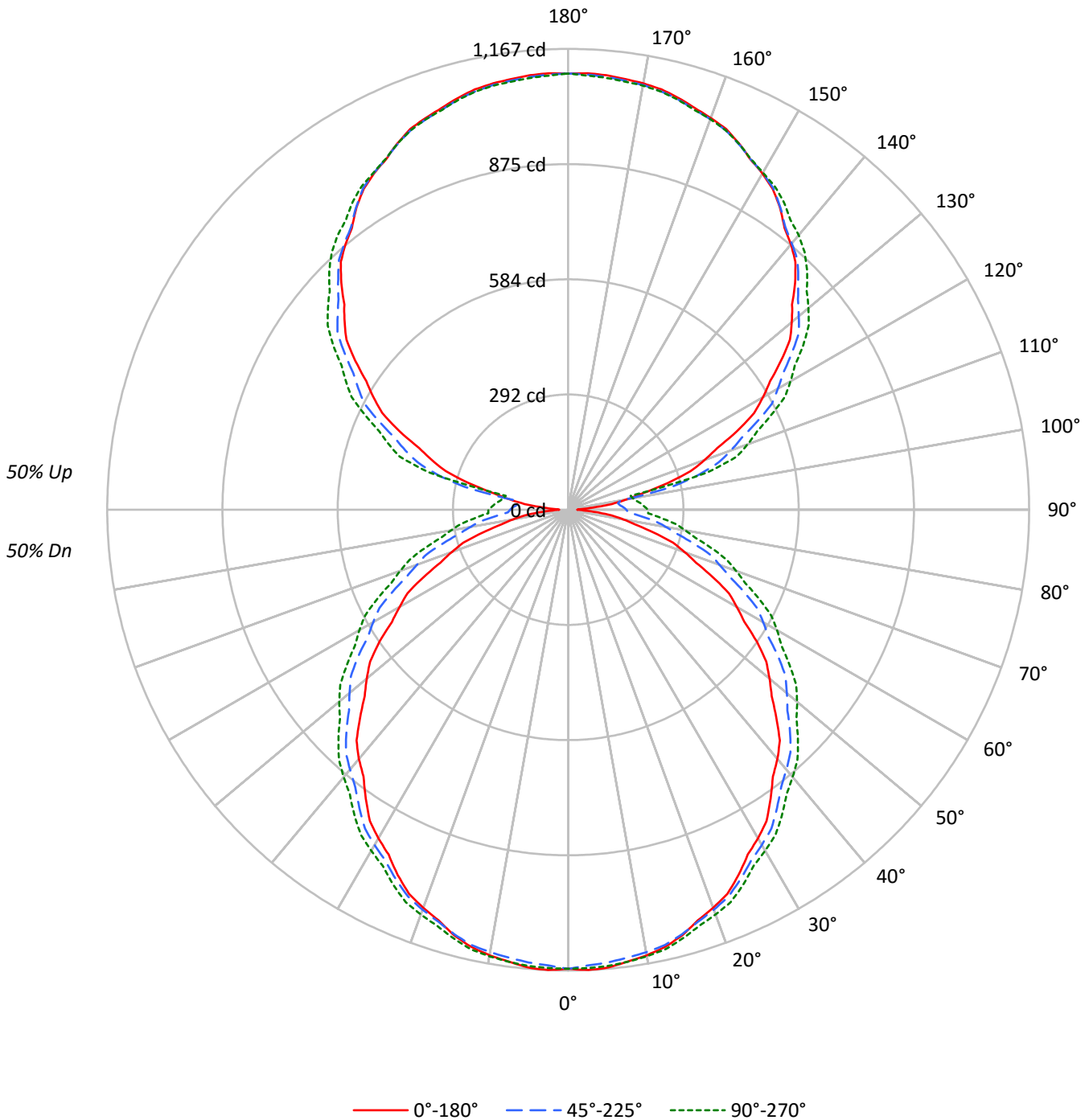
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332849-930

CATALOG NUMBER: S124DIW-S1195D1050U930-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P332849-930

CATALOG NUMBER: S124DIW-S1195D1050U930-4F0-1E-UDD-D

**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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1   | 97  | 92  | 88  | 84  | 89 | 85 | 81 | 78 | 71 | 69 | 66 | 59 | 57 | 55 | 48 | 46 | 45 | 40 |
| 2   | 88  | 80  | 73  | 68  | 80 | 74 | 68 | 63 | 62 | 58 | 54 | 51 | 48 | 45 | 41 | 39 | 37 | 32 |
| 3   | 80  | 70  | 62  | 56  | 73 | 64 | 58 | 52 | 54 | 49 | 45 | 45 | 41 | 38 | 36 | 34 | 31 | 27 |
| 4   | 73  | 61  | 53  | 47  | 67 | 57 | 49 | 44 | 48 | 42 | 38 | 40 | 36 | 32 | 32 | 29 | 27 | 23 |
| 5   | 67  | 55  | 46  | 40  | 61 | 50 | 43 | 37 | 43 | 37 | 32 | 36 | 31 | 28 | 29 | 26 | 23 | 20 |
| 6   | 61  | 49  | 40  | 34  | 56 | 45 | 38 | 32 | 38 | 33 | 28 | 32 | 28 | 24 | 26 | 23 | 20 | 17 |
| 7   | 57  | 44  | 36  | 30  | 52 | 41 | 33 | 28 | 35 | 29 | 25 | 29 | 25 | 21 | 24 | 20 | 18 | 15 |
| 8   | 52  | 40  | 32  | 26  | 48 | 37 | 30 | 25 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 18 | 16 | 13 |
| 9   | 49  | 36  | 29  | 24  | 45 | 34 | 27 | 22 | 29 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |
| 10  | 46  | 33  | 26  | 21  | 42 | 31 | 24 | 20 | 27 | 21 | 17 | 23 | 18 | 15 | 19 | 15 | 13 | 11 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9386 | 9386 | 9386 |
| 5°  | 9414 | 9173 | 9199 |
| 10° | 9357 | 9022 | 9016 |
| 15° | 9273 | 8849 | 8800 |
| 20° | 9147 | 8658 | 8591 |
| 25° | 9004 | 8442 | 8360 |
| 30° | 8849 | 8228 | 8124 |
| 35° | 8675 | 8010 | 7917 |
| 40° | 8536 | 7801 | 7700 |
| 45° | 8329 | 7610 | 7515 |
| 50° | 8153 | 7388 | 7319 |
| 55° | 7973 | 7179 | 7089 |
| 60° | 7689 | 6913 | 6880 |
| 65° | 7380 | 6628 | 6622 |
| 70° | 7004 | 6302 | 6322 |
| 75° | 6483 | 5945 | 6051 |
| 80° | 5900 | 5600 | 5784 |
| 85° | 5162 | 5295 | 5626 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.1  | 1.5       |
| 10°-20°   | 315.4  | 4.3       |
| 20°-30°   | 477.0  | 6.5       |
| 30°-40°   | 577.1  | 7.8       |
| 40°-50°   | 610.1  | 8.3       |
| 50°-60°   | 574.2  | 7.8       |
| 60°-70°   | 476.4  | 6.5       |
| 70°-80°   | 334.6  | 4.5       |
| 80°-90°   | 192.4  | 2.6       |
| 90°-100°  | 150.1  | 2.0       |
| 100°-110° | 324.0  | 4.4       |
| 110°-120° | 516.5  | 7.0       |
| 120°-130° | 616.4  | 8.3       |
| 130°-140° | 639.4  | 8.7       |
| 140°-150° | 587.9  | 8.0       |
| 150°-160° | 471.9  | 6.4       |
| 160°-170° | 304.4  | 4.1       |
| 170°-180° | 104.9  | 1.4       |
| 0°-30°    | 902.5  | 12.2      |
| 0°-40°    | 1479.6 | 20.0      |
| 0°-60°    | 2663.8 | 36.1      |
| 0°-90°    | 3667.1 | 49.7      |
| 90°-120°  | 990.6  | 13.4      |
| 90°-150°  | 2834.3 | 38.4      |
| 90°-180°  | 3715.0 | 50.3      |
| 0°-180°   | 7382.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1163 | 1163  | 1163 | 1163  | 1163 |      |
| 5°   | 1164 | 1160  | 1151 | 1161  | 1160 | 110  |
| 15°  | 1116 | 1117  | 1113 | 1124  | 1124 | 314  |
| 25°  | 1021 | 1028  | 1032 | 1046  | 1048 | 470  |
| 35°  | 893  | 908   | 922  | 939   | 944  | 559  |
| 45°  | 745  | 769   | 794  | 815   | 823  | 575  |
| 55°  | 583  | 611   | 650  | 675   | 684  | 520  |
| 65°  | 404  | 445   | 490  | 521   | 532  | 400  |
| 75°  | 224  | 272   | 327  | 362   | 375  | 238  |
| 85°  | 69   | 124   | 182  | 220   | 234  | 73   |
| 90°  | 23   | 85    | 147  | 188   | 202  | 16   |
| 95°  | 62   | 79    | 131  | 170   | 184  | 72   |
| 105° | 260  | 293   | 344  | 380   | 364  | 273  |
| 115° | 472  | 488   | 527  | 556   | 566  | 465  |
| 125° | 658  | 661   | 691  | 717   | 726  | 587  |
| 135° | 812  | 812   | 824  | 846   | 856  | 626  |
| 145° | 935  | 936   | 936  | 944   | 951  | 584  |
| 155° | 1023 | 1024  | 1022 | 1025  | 1023 | 472  |
| 165° | 1080 | 1076  | 1076 | 1081  | 1075 | 305  |
| 175° | 1104 | 1100  | 1100 | 1107  | 1098 | 105  |
| 180° | 1104 | 1104  | 1104 | 1104  | 1104 |      |



TEST NUMBER: P332849-930

CATALOG NUMBER: S124DIW-S1195D1050U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 |
| 2.5°   | 1166.8 | 1166.0 | 1165.4 | 1164.7 | 1164.0 | 1162.7 | 1160.8 | 1159.0 | 1157.2 | 1155.3 | 1156.9 |
| 5°     | 1163.8 | 1163.0 | 1162.1 | 1161.3 | 1160.4 | 1158.9 | 1156.9 | 1154.9 | 1152.9 | 1150.9 | 1153.2 |
| 7.5°   | 1154.0 | 1153.5 | 1152.9 | 1152.4 | 1151.9 | 1150.8 | 1149.2 | 1147.5 | 1145.7 | 1144.1 | 1146.7 |
| 10°    | 1145.7 | 1145.3 | 1145.1 | 1144.8 | 1144.5 | 1143.6 | 1142.2 | 1140.8 | 1139.3 | 1137.8 | 1140.4 |
| 12.5°  | 1134.2 | 1134.2 | 1134.1 | 1134.0 | 1134.0 | 1133.4 | 1132.5 | 1131.5 | 1130.5 | 1129.5 | 1131.9 |
| 15°    | 1115.7 | 1116.0 | 1116.3 | 1116.6 | 1116.9 | 1116.6 | 1115.7 | 1114.8 | 1113.9 | 1113.1 | 1115.7 |
| 17.5°  | 1090.5 | 1091.4 | 1092.2 | 1093.1 | 1093.9 | 1094.3 | 1094.1 | 1093.9 | 1093.7 | 1093.6 | 1096.3 |
| 20°    | 1072.8 | 1073.6 | 1074.5 | 1075.4 | 1076.2 | 1076.8 | 1077.1 | 1077.4 | 1077.7 | 1078.0 | 1080.8 |
| 22.5°  | 1053.0 | 1054.0 | 1055.2 | 1056.2 | 1057.4 | 1058.2 | 1058.7 | 1059.2 | 1059.7 | 1060.2 | 1063.2 |
| 25°    | 1020.7 | 1022.4 | 1024.2 | 1025.9 | 1027.6 | 1028.9 | 1029.8 | 1030.6 | 1031.5 | 1032.4 | 1035.6 |
| 27.5°  | 984.7  | 987.3  | 989.9  | 992.4  | 994.9  | 996.9  | 998.2  | 999.6  | 1000.9 | 1002.2 | 1005.1 |
| 30°    | 960.7  | 963.1  | 965.4  | 967.8  | 970.0  | 972.2  | 974.2  | 976.2  | 978.3  | 980.3  | 983.5  |
| 32.5°  | 934.7  | 937.5  | 940.3  | 943.1  | 945.8  | 948.4  | 950.6  | 952.9  | 955.1  | 957.4  | 961.1  |
| 35°    | 893.1  | 896.6  | 900.0  | 903.5  | 906.9  | 910.1  | 913.1  | 915.9  | 918.8  | 921.7  | 925.8  |
| 37.5°  | 851.2  | 855.2  | 859.2  | 863.2  | 867.2  | 870.9  | 874.5  | 878.1  | 881.7  | 885.3  | 889.4  |
| 40°    | 824.1  | 827.9  | 831.6  | 835.4  | 839.1  | 843.0  | 847.1  | 851.2  | 855.2  | 859.2  | 863.6  |
| 42.5°  | 792.9  | 797.0  | 801.3  | 805.5  | 809.8  | 814.2  | 819.0  | 823.7  | 828.4  | 833.2  | 838.0  |
| 45°    | 744.7  | 750.2  | 755.7  | 761.2  | 766.6  | 772.2  | 777.6  | 783.2  | 788.6  | 794.2  | 799.1  |
| 47.5°  | 698.5  | 704.3  | 710.0  | 715.6  | 721.3  | 727.3  | 733.7  | 740.0  | 746.4  | 752.8  | 757.8  |
| 50°    | 665.3  | 671.6  | 678.0  | 684.4  | 690.7  | 697.1  | 703.4  | 709.8  | 716.2  | 722.5  | 728.3  |
| 52.5°  | 631.9  | 638.3  | 644.7  | 651.0  | 657.4  | 664.2  | 671.5  | 678.8  | 686.1  | 693.4  | 699.2  |
| 55°    | 583.3  | 589.3  | 595.4  | 601.4  | 607.6  | 614.9  | 623.6  | 632.3  | 641.0  | 649.6  | 655.4  |
| 57.5°  | 528.8  | 536.4  | 543.9  | 551.4  | 558.9  | 567.0  | 575.6  | 584.2  | 592.9  | 601.4  | 608.4  |
| 60°    | 493.4  | 500.9  | 508.4  | 516.0  | 523.5  | 532.1  | 541.6  | 551.1  | 560.7  | 570.2  | 576.9  |
| 62.5°  | 459.0  | 467.2  | 475.5  | 483.7  | 491.9  | 500.8  | 510.4  | 519.9  | 529.5  | 539.0  | 545.6  |
| 65°    | 403.6  | 412.9  | 422.1  | 431.4  | 440.6  | 450.1  | 460.0  | 469.9  | 479.6  | 489.5  | 496.8  |
| 67.5°  | 350.2  | 360.0  | 369.9  | 379.7  | 389.6  | 399.7  | 410.3  | 420.8  | 431.3  | 441.9  | 449.2  |
| 70°    | 313.7  | 323.6  | 333.5  | 343.2  | 353.1  | 363.5  | 374.5  | 385.5  | 396.5  | 407.5  | 415.3  |
| 72.5°  | 278.3  | 288.4  | 298.5  | 308.5  | 318.6  | 329.5  | 341.2  | 352.9  | 364.5  | 376.3  | 383.8  |
| 75°    | 224.0  | 234.6  | 245.3  | 256.0  | 266.8  | 278.2  | 290.3  | 302.5  | 314.6  | 326.8  | 334.8  |
| 77.5°  | 173.2  | 184.5  | 195.8  | 207.2  | 218.5  | 230.6  | 243.3  | 256.0  | 268.7  | 281.4  | 289.7  |
| 80°    | 141.9  | 153.4  | 165.0  | 176.6  | 188.2  | 200.3  | 213.0  | 225.8  | 238.6  | 251.3  | 259.9  |
| 82.5°  | 110.6  | 122.7  | 134.8  | 146.8  | 158.8  | 171.2  | 183.9  | 196.7  | 209.4  | 222.1  | 231.0  |
| 85°    | 69.0   | 81.1   | 93.3   | 105.4  | 117.6  | 130.2  | 143.2  | 156.2  | 169.3  | 182.3  | 190.9  |
| 87.5°  | 39.1   | 51.2   | 63.4   | 75.7   | 87.9   | 100.4  | 113.4  | 126.4  | 139.3  | 152.3  | 160.9  |
| 90°    | 23.3   | 36.9   | 50.5   | 64.1   | 77.7   | 91.4   | 105.3  | 119.3  | 133.1  | 147.1  | 156.5  |
| 92.5°  | 30.2   | 40.7   | 51.3   | 61.8   | 72.3   | 84.5   | 98.4   | 112.3  | 126.2  | 140.1  | 149.4  |
| 95°    | 62.4   | 65.6   | 69.0   | 72.2   | 75.6   | 83.2   | 95.3   | 107.4  | 119.4  | 131.4  | 140.3  |
| 97.5°  | 111.9  | 123.9  | 136.1  | 148.1  | 160.3  | 162.0  | 153.2  | 144.5  | 135.7  | 127.0  | 134.7  |
| 100°   | 149.8  | 160.6  | 171.5  | 182.3  | 193.1  | 191.5  | 177.4  | 163.4  | 149.4  | 135.3  | 140.0  |
| 102.5° | 193.4  | 202.4  | 211.4  | 220.5  | 229.5  | 237.9  | 245.6  | 253.4  | 261.1  | 268.9  | 242.8  |
| 105°   | 260.3  | 267.3  | 274.1  | 281.0  | 287.9  | 297.2  | 308.8  | 320.4  | 332.0  | 343.6  | 352.5  |
| 107.5° | 324.7  | 330.0  | 335.3  | 340.6  | 345.8  | 354.2  | 365.6  | 377.0  | 388.3  | 399.7  | 407.6  |
| 110°   | 367.3  | 371.9  | 376.5  | 381.1  | 385.6  | 393.5  | 404.8  | 416.0  | 427.3  | 438.5  | 445.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 408.5  | 413.1  | 417.7  | 422.2  | 426.8  | 434.2  | 444.4  | 454.5  | 464.7  | 474.9  | 481.3  |
| 115°   | 472.1  | 475.2  | 478.3  | 481.5  | 484.7  | 490.8  | 499.9  | 508.9  | 518.0  | 527.1  | 533.8  |
| 117.5° | 530.4  | 532.7  | 535.0  | 537.4  | 539.6  | 545.3  | 554.3  | 563.4  | 572.3  | 581.4  | 587.3  |
| 120°   | 569.1  | 570.6  | 572.3  | 573.9  | 575.4  | 580.3  | 588.6  | 596.8  | 605.0  | 613.2  | 619.3  |
| 122.5° | 606.0  | 606.7  | 607.3  | 607.9  | 608.5  | 612.9  | 621.1  | 629.2  | 637.5  | 645.6  | 651.7  |
| 125°   | 657.8  | 658.2  | 658.7  | 659.1  | 659.6  | 663.2  | 670.1  | 676.9  | 683.8  | 690.6  | 696.8  |
| 127.5° | 707.8  | 707.6  | 707.5  | 707.4  | 707.4  | 710.5  | 716.9  | 723.3  | 729.7  | 736.1  | 741.2  |
| 130°   | 739.1  | 739.0  | 738.9  | 738.7  | 738.7  | 741.2  | 746.4  | 751.5  | 756.8  | 761.9  | 767.3  |
| 132.5° | 768.8  | 768.8  | 768.9  | 768.9  | 769.0  | 771.2  | 775.6  | 780.0  | 784.4  | 788.8  | 793.9  |
| 135°   | 812.1  | 812.0  | 811.8  | 811.5  | 811.4  | 812.7  | 815.5  | 818.2  | 820.9  | 823.7  | 828.8  |
| 137.5° | 851.6  | 851.4  | 851.2  | 850.9  | 850.8  | 851.5  | 853.3  | 855.1  | 856.9  | 858.7  | 863.3  |
| 140°   | 877.3  | 877.4  | 877.5  | 877.6  | 877.7  | 878.1  | 878.7  | 879.4  | 880.0  | 880.7  | 885.0  |
| 142.5° | 899.4  | 900.1  | 900.7  | 901.3  | 901.9  | 902.2  | 902.3  | 902.3  | 902.4  | 902.4  | 906.1  |
| 145°   | 934.7  | 935.0  | 935.2  | 935.5  | 935.8  | 935.9  | 935.9  | 935.9  | 935.9  | 935.9  | 937.8  |
| 147.5° | 963.0  | 963.7  | 964.4  | 965.2  | 966.0  | 966.2  | 966.0  | 965.9  | 965.6  | 965.5  | 965.9  |
| 150°   | 983.5  | 983.9  | 984.4  | 984.8  | 985.2  | 985.4  | 985.2  | 985.0  | 984.8  | 984.6  | 984.6  |
| 152.5° | 999.6  | 1000.1 | 1000.7 | 1001.2 | 1001.8 | 1001.8 | 1001.5 | 1001.2 | 1000.9 | 1000.5 | 1000.8 |
| 155°   | 1023.4 | 1023.7 | 1023.9 | 1024.0 | 1024.2 | 1024.0 | 1023.4 | 1023.0 | 1022.4 | 1021.8 | 1022.5 |
| 157.5° | 1043.8 | 1043.7 | 1043.6 | 1043.4 | 1043.3 | 1043.0 | 1042.4 | 1041.7 | 1041.1 | 1040.5 | 1041.5 |
| 160°   | 1055.6 | 1055.2 | 1054.6 | 1054.0 | 1053.4 | 1053.1 | 1053.0 | 1052.7 | 1052.6 | 1052.4 | 1053.4 |
| 162.5° | 1066.2 | 1065.6 | 1064.9 | 1064.1 | 1063.5 | 1063.0 | 1062.8 | 1062.7 | 1062.5 | 1062.3 | 1063.4 |
| 165°   | 1079.6 | 1078.7 | 1077.8 | 1076.8 | 1076.0 | 1075.5 | 1075.5 | 1075.5 | 1075.5 | 1075.5 | 1077.0 |
| 167.5° | 1090.2 | 1089.2 | 1088.3 | 1087.4 | 1086.4 | 1085.9 | 1085.7 | 1085.7 | 1085.6 | 1085.4 | 1087.0 |
| 170°   | 1096.2 | 1095.0 | 1094.0 | 1092.8 | 1091.8 | 1091.3 | 1091.4 | 1091.7 | 1091.8 | 1092.0 | 1093.5 |
| 172.5° | 1100.1 | 1099.0 | 1097.9 | 1096.8 | 1095.7 | 1095.3 | 1095.4 | 1095.6 | 1095.8 | 1096.0 | 1097.5 |
| 175°   | 1104.4 | 1103.3 | 1102.2 | 1101.1 | 1100.0 | 1099.6 | 1099.8 | 1099.9 | 1100.1 | 1100.3 | 1102.0 |
| 177.5° | 1106.4 | 1105.4 | 1104.3 | 1103.3 | 1102.3 | 1102.0 | 1102.2 | 1102.5 | 1102.8 | 1103.1 | 1104.2 |
| 180°   | 1104.4 | 1104.4 | 1104.4 | 1104.4 | 1104.4 | 1104.4 | 1104.4 | 1104.4 | 1104.4 | 1104.4 | 1104.4 |



TEST NUMBER: P332849-930

CATALOG NUMBER: S124DIW-S1195D1050U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 | 1162.6 |
| 2.5°   | 1158.5 | 1160.2 | 1161.8 | 1162.5 | 1162.2 | 1162.0 | 1161.8 | 1161.6 |
| 5°     | 1155.5 | 1157.8 | 1160.1 | 1161.1 | 1160.8 | 1160.6 | 1160.3 | 1160.0 |
| 7.5°   | 1149.3 | 1151.9 | 1154.5 | 1155.7 | 1155.4 | 1155.1 | 1154.8 | 1154.5 |
| 10°    | 1143.0 | 1145.7 | 1148.3 | 1149.4 | 1149.2 | 1148.8 | 1148.5 | 1148.3 |
| 12.5°  | 1134.2 | 1136.6 | 1139.0 | 1140.2 | 1140.1 | 1140.0 | 1140.0 | 1140.0 |
| 15°    | 1118.3 | 1121.0 | 1123.5 | 1124.7 | 1124.4 | 1124.1 | 1123.8 | 1123.5 |
| 17.5°  | 1098.9 | 1101.6 | 1104.2 | 1105.5 | 1105.2 | 1105.0 | 1104.7 | 1104.5 |
| 20°    | 1083.8 | 1086.6 | 1089.6 | 1091.0 | 1091.0 | 1091.0 | 1091.0 | 1091.0 |
| 22.5°  | 1066.0 | 1068.9 | 1071.8 | 1073.5 | 1074.0 | 1074.4 | 1074.9 | 1075.4 |
| 25°    | 1038.8 | 1042.0 | 1045.1 | 1046.8 | 1047.2 | 1047.4 | 1047.7 | 1048.0 |
| 27.5°  | 1008.1 | 1011.1 | 1014.0 | 1015.6 | 1016.0 | 1016.4 | 1016.7 | 1017.0 |
| 30°    | 986.7  | 989.9  | 993.0  | 994.9  | 995.5  | 996.1  | 996.6  | 997.3  |
| 32.5°  | 964.7  | 968.3  | 972.0  | 974.1  | 974.7  | 975.3  | 975.8  | 976.4  |
| 35°    | 929.8  | 933.8  | 937.9  | 940.4  | 941.3  | 942.2  | 943.0  | 943.9  |
| 37.5°  | 893.5  | 897.6  | 901.7  | 904.2  | 905.1  | 906.0  | 907.0  | 907.9  |
| 40°    | 867.9  | 872.3  | 876.6  | 879.4  | 880.5  | 881.7  | 882.8  | 883.9  |
| 42.5°  | 842.8  | 847.6  | 852.4  | 855.2  | 856.2  | 857.1  | 858.0  | 859.0  |
| 45°    | 804.0  | 808.9  | 813.8  | 817.0  | 818.5  | 819.9  | 821.3  | 822.8  |
| 47.5°  | 763.0  | 768.0  | 773.1  | 776.5  | 778.3  | 780.0  | 781.7  | 783.5  |
| 50°    | 734.1  | 739.9  | 745.7  | 749.4  | 751.2  | 752.9  | 754.6  | 756.4  |
| 52.5°  | 705.0  | 710.8  | 716.5  | 720.3  | 722.0  | 723.7  | 725.5  | 727.2  |
| 55°    | 661.2  | 667.0  | 672.8  | 676.5  | 678.2  | 680.0  | 681.8  | 683.5  |
| 57.5°  | 615.2  | 622.2  | 629.0  | 633.2  | 634.9  | 636.5  | 638.1  | 639.8  |
| 60°    | 583.5  | 590.2  | 596.8  | 601.3  | 603.6  | 605.9  | 608.3  | 610.6  |
| 62.5°  | 552.3  | 559.0  | 565.6  | 570.1  | 572.4  | 574.7  | 577.0  | 579.4  |
| 65°    | 503.9  | 511.2  | 518.4  | 523.2  | 525.5  | 527.8  | 530.2  | 532.5  |
| 67.5°  | 456.6  | 463.9  | 471.2  | 476.1  | 478.3  | 480.5  | 482.8  | 485.1  |
| 70°    | 423.1  | 430.9  | 438.7  | 443.7  | 445.6  | 447.7  | 449.7  | 451.8  |
| 72.5°  | 391.4  | 399.0  | 406.6  | 411.5  | 413.8  | 416.0  | 418.2  | 420.5  |
| 75°    | 343.0  | 351.1  | 359.1  | 364.5  | 367.1  | 369.7  | 372.3  | 375.0  |
| 77.5°  | 297.9  | 306.1  | 314.3  | 319.8  | 322.6  | 325.4  | 328.2  | 330.9  |
| 80°    | 268.6  | 277.3  | 286.0  | 291.5  | 293.8  | 296.1  | 298.4  | 300.8  |
| 82.5°  | 239.9  | 248.8  | 257.7  | 263.5  | 266.0  | 268.6  | 271.1  | 273.6  |
| 85°    | 199.6  | 208.3  | 217.0  | 222.7  | 225.7  | 228.5  | 231.5  | 234.3  |
| 87.5°  | 169.5  | 178.1  | 186.8  | 192.3  | 195.0  | 197.6  | 200.2  | 202.8  |
| 90°    | 166.1  | 175.5  | 185.0  | 191.1  | 193.8  | 196.5  | 199.2  | 201.9  |
| 92.5°  | 158.7  | 168.0  | 177.2  | 183.0  | 185.4  | 187.8  | 190.2  | 192.6  |
| 95°    | 149.3  | 158.2  | 167.1  | 172.9  | 175.7  | 178.6  | 181.3  | 184.1  |
| 97.5°  | 142.4  | 150.1  | 157.8  | 163.0  | 165.6  | 168.3  | 171.0  | 173.7  |
| 100°   | 144.6  | 149.4  | 154.1  | 157.5  | 159.7  | 161.9  | 164.1  | 166.3  |
| 102.5° | 216.7  | 190.6  | 164.5  | 152.6  | 154.9  | 157.2  | 159.5  | 161.8  |
| 105°   | 361.4  | 370.3  | 379.2  | 381.5  | 377.2  | 372.9  | 368.6  | 364.3  |
| 107.5° | 415.6  | 423.5  | 431.4  | 436.8  | 439.5  | 442.3  | 445.1  | 447.8  |
| 110°   | 452.6  | 459.6  | 466.6  | 471.5  | 474.4  | 477.3  | 480.1  | 483.0  |





TEST NUMBER: P332849-930

CATALOG NUMBER: S124DIW-S1195D1050U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 487.6  | 494.0  | 500.3  | 505.0  | 508.0  | 511.0  | 514.0  | 517.1  |
| 115°   | 540.5  | 547.3  | 554.0  | 558.4  | 560.4  | 562.4  | 564.4  | 566.5  |
| 117.5° | 593.3  | 599.2  | 605.2  | 609.3  | 611.5  | 613.8  | 616.0  | 618.2  |
| 120°   | 625.5  | 631.6  | 637.8  | 641.9  | 643.8  | 645.7  | 647.7  | 649.6  |
| 122.5° | 657.6  | 663.7  | 669.7  | 673.5  | 675.2  | 676.9  | 678.7  | 680.4  |
| 125°   | 702.8  | 708.8  | 714.9  | 718.8  | 720.8  | 722.7  | 724.6  | 726.5  |
| 127.5° | 746.2  | 751.4  | 756.4  | 759.9  | 761.7  | 763.5  | 765.4  | 767.2  |
| 130°   | 772.7  | 778.1  | 783.5  | 787.0  | 788.8  | 790.5  | 792.2  | 794.0  |
| 132.5° | 799.2  | 804.3  | 809.4  | 812.9  | 814.4  | 816.0  | 817.6  | 819.2  |
| 135°   | 833.7  | 838.7  | 843.7  | 847.3  | 849.4  | 851.4  | 853.5  | 855.7  |
| 137.5° | 868.0  | 872.6  | 877.2  | 880.2  | 881.5  | 882.9  | 884.2  | 885.6  |
| 140°   | 889.3  | 893.6  | 898.0  | 900.9  | 902.5  | 904.2  | 905.8  | 907.4  |
| 142.5° | 909.8  | 913.5  | 917.2  | 919.7  | 921.0  | 922.2  | 923.4  | 924.7  |
| 145°   | 939.7  | 941.7  | 943.5  | 945.3  | 946.8  | 948.4  | 949.9  | 951.4  |
| 147.5° | 966.2  | 966.6  | 967.0  | 967.8  | 968.8  | 970.0  | 971.1  | 972.2  |
| 150°   | 984.6  | 984.6  | 984.6  | 984.7  | 984.9  | 985.1  | 985.3  | 985.5  |
| 152.5° | 1001.1 | 1001.4 | 1001.7 | 1001.8 | 1001.7 | 1001.5 | 1001.4 | 1001.4 |
| 155°   | 1023.3 | 1024.0 | 1024.7 | 1024.8 | 1024.3 | 1023.8 | 1023.2 | 1022.6 |
| 157.5° | 1042.4 | 1043.3 | 1044.3 | 1044.3 | 1043.3 | 1042.4 | 1041.5 | 1040.5 |
| 160°   | 1054.6 | 1055.6 | 1056.8 | 1056.8 | 1055.6 | 1054.6 | 1053.4 | 1052.4 |
| 162.5° | 1064.5 | 1065.6 | 1066.7 | 1066.7 | 1065.4 | 1064.1 | 1062.9 | 1061.6 |
| 165°   | 1078.5 | 1079.9 | 1081.4 | 1081.2 | 1079.6 | 1078.0 | 1076.4 | 1074.6 |
| 167.5° | 1088.7 | 1090.3 | 1091.8 | 1091.8 | 1090.0 | 1088.1 | 1086.3 | 1084.4 |
| 170°   | 1094.9 | 1096.4 | 1097.9 | 1097.7 | 1095.8 | 1094.1 | 1092.2 | 1090.4 |
| 172.5° | 1098.9 | 1100.4 | 1101.9 | 1101.6 | 1099.6 | 1097.6 | 1095.7 | 1093.6 |
| 175°   | 1103.6 | 1105.2 | 1106.9 | 1106.6 | 1104.4 | 1102.2 | 1100.0 | 1097.8 |
| 177.5° | 1105.5 | 1106.6 | 1107.8 | 1107.5 | 1105.7 | 1104.0 | 1102.2 | 1100.5 |
| 180°   | 1104.4 | 1104.4 | 1104.4 | 1104.4 | 1104.4 | 1104.4 | 1104.4 | 1104.4 |

(END OF REPORT)