

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: P332206-927

Luminaire Tested: **S123DIW-S1000D1535U927-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332206-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S1000D1535U927-4F0-1E-UDD-D  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1535 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8191.7 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

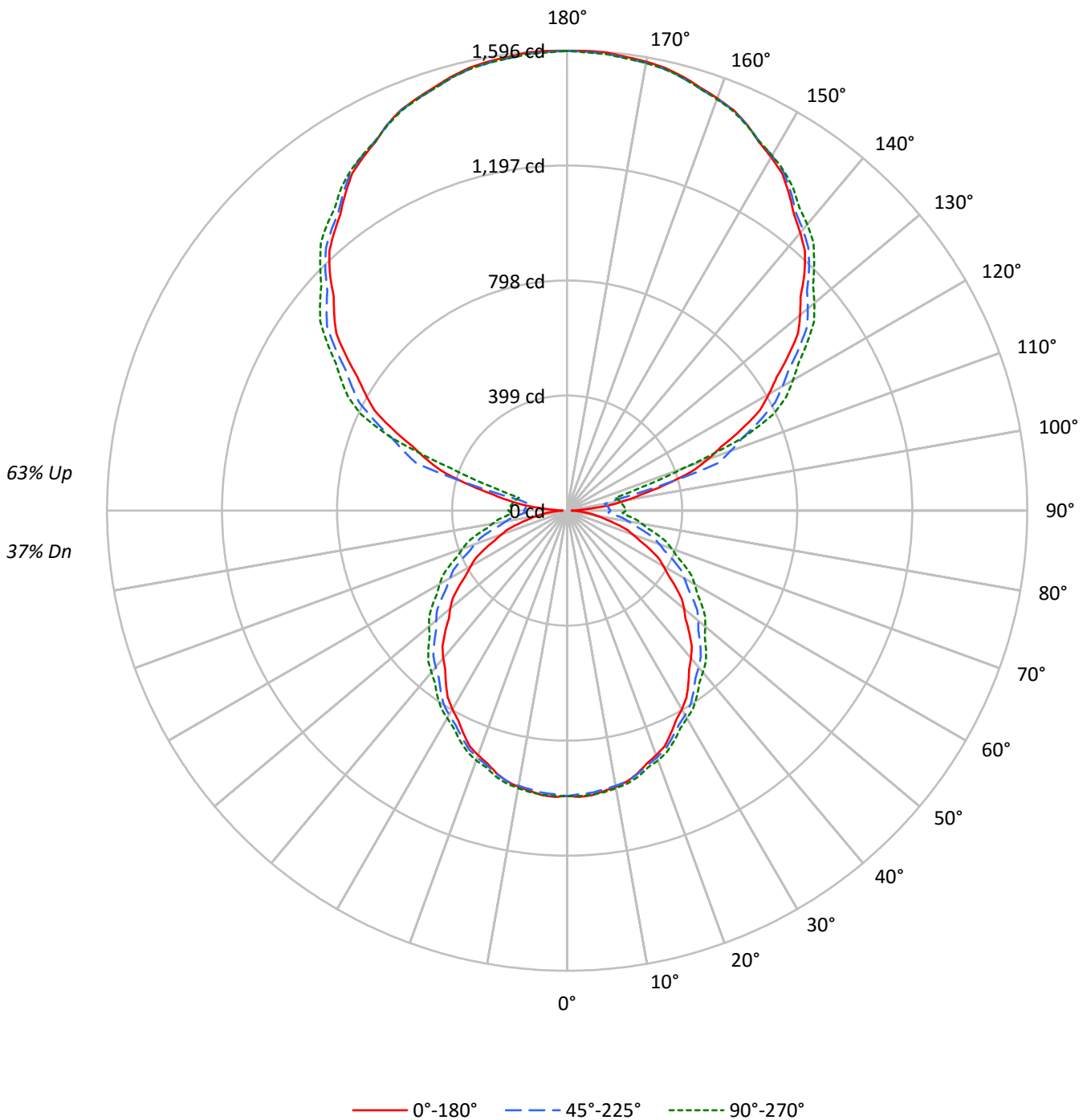
Input Watts (W): 76.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332206-927

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### Luminous Intensity Polar Plot





TEST NUMBER: P332206-927

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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   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 60 | 60 | 60 | 44 | 44 | 44 | 37 |
| 1   | 94  | 90  | 85  | 82  | 85 | 81 | 78 | 75 | 66 | 63 | 61 | 51 | 50 | 48 | 38 | 37 | 36 | 30 |
| 2   | 85  | 78  | 71  | 66  | 77 | 71 | 65 | 60 | 57 | 53 | 50 | 44 | 42 | 39 | 33 | 31 | 30 | 24 |
| 3   | 78  | 68  | 61  | 55  | 70 | 62 | 55 | 50 | 50 | 45 | 41 | 39 | 36 | 33 | 29 | 27 | 25 | 20 |
| 4   | 71  | 60  | 52  | 46  | 64 | 55 | 48 | 42 | 44 | 39 | 35 | 35 | 31 | 28 | 26 | 23 | 21 | 17 |
| 5   | 65  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 39 | 34 | 30 | 31 | 27 | 24 | 23 | 20 | 18 | 15 |
| 6   | 60  | 48  | 39  | 34  | 54 | 43 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 21 | 21 | 18 | 16 | 13 |
| 7   | 55  | 43  | 35  | 29  | 50 | 39 | 32 | 27 | 32 | 27 | 23 | 25 | 21 | 18 | 19 | 16 | 14 | 11 |
| 8   | 51  | 39  | 31  | 26  | 46 | 35 | 29 | 24 | 29 | 24 | 20 | 23 | 19 | 16 | 17 | 15 | 13 | 10 |
| 9   | 47  | 35  | 28  | 23  | 43 | 32 | 26 | 21 | 27 | 21 | 18 | 21 | 17 | 15 | 16 | 13 | 11 | 9  |
| 10  | 44  | 32  | 25  | 20  | 40 | 30 | 23 | 19 | 24 | 19 | 16 | 19 | 16 | 13 | 15 | 12 | 10 | 8  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10654 | 10654 | 10654 |
| 5°  | 10687 | 10385 | 10392 |
| 10° | 10592 | 10146 | 10095 |
| 15° | 10455 | 9874  | 9773  |
| 20° | 10260 | 9565  | 9418  |
| 25° | 10019 | 9208  | 9043  |
| 30° | 9772  | 8886  | 8665  |
| 35° | 9496  | 8547  | 8362  |
| 40° | 9231  | 8238  | 8039  |
| 45° | 8938  | 7941  | 7779  |
| 50° | 8650  | 7648  | 7494  |
| 55° | 8332  | 7348  | 7238  |
| 60° | 8020  | 7044  | 6974  |
| 65° | 7702  | 6718  | 6661  |
| 70° | 7222  | 6352  | 6341  |
| 75° | 6614  | 5933  | 6016  |
| 80° | 5915  | 5522  | 5642  |
| 85° | 5267  | 5241  | 5428  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.8   | 1.1       |
| 10°-20°   | 267.5  | 3.3       |
| 20°-30°   | 400.0  | 4.9       |
| 30°-40°   | 477.7  | 5.8       |
| 40°-50°   | 499.9  | 6.1       |
| 50°-60°   | 469.1  | 5.7       |
| 60°-70°   | 391.8  | 4.8       |
| 70°-80°   | 280.3  | 3.4       |
| 80°-90°   | 171.6  | 2.1       |
| 90°-100°  | 162.8  | 2.0       |
| 100°-110° | 353.3  | 4.3       |
| 110°-120° | 714.9  | 8.7       |
| 120°-130° | 874.3  | 10.7      |
| 130°-140° | 915.9  | 11.2      |
| 140°-150° | 847.0  | 10.3      |
| 150°-160° | 680.9  | 8.3       |
| 160°-170° | 439.5  | 5.4       |
| 170°-180° | 151.5  | 1.8       |
| 0°-30°    | 761.3  | 9.3       |
| 0°-40°    | 1239.1 | 15.1      |
| 0°-60°    | 2208.0 | 27.0      |
| 0°-90°    | 3051.7 | 37.3      |
| 90°-120°  | 1231.1 | 15.0      |
| 90°-150°  | 3868.2 | 47.2      |
| 90°-180°  | 5140.0 | 62.7      |
| 0°-180°   | 8191.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 990  | 990   | 990  | 990   | 990  |      |
| 5°   | 991  | 988   | 982  | 990   | 990  | 94   |
| 15°  | 943  | 946   | 946  | 956   | 955  | 266  |
| 25°  | 852  | 862   | 866  | 879   | 880  | 392  |
| 35°  | 733  | 750   | 764  | 780   | 785  | 458  |
| 45°  | 599  | 625   | 652  | 672   | 681  | 462  |
| 55°  | 457  | 493   | 532  | 560   | 569  | 409  |
| 65°  | 316  | 358   | 405  | 436   | 448  | 312  |
| 75°  | 171  | 222   | 276  | 310   | 325  | 183  |
| 85°  | 53   | 107   | 164  | 199   | 211  | 55   |
| 90°  | 15   | 80    | 150  | 190   | 205  | 13   |
| 95°  | 84   | 82    | 144  | 183   | 196  | 99   |
| 105° | 362  | 395   | 340  | 171   | 173  | 383  |
| 115° | 667  | 689   | 737  | 773   | 788  | 659  |
| 125° | 936  | 947   | 982  | 1006  | 1017 | 836  |
| 135° | 1164 | 1171  | 1187 | 1208  | 1211 | 896  |
| 145° | 1342 | 1349  | 1351 | 1362  | 1367 | 839  |
| 155° | 1477 | 1475  | 1476 | 1481  | 1474 | 680  |
| 165° | 1557 | 1554  | 1553 | 1561  | 1554 | 440  |
| 175° | 1594 | 1588  | 1589 | 1597  | 1588 | 152  |
| 180° | 1594 | 1594  | 1594 | 1594  | 1594 |      |



TEST NUMBER: P332206-927

CATALOG NUMBER: S123DIW-S1000D1535U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 |
| 2.5°   | 994.1 | 993.6 | 992.9 | 992.4 | 991.8 | 990.7 | 989.2 | 987.7 | 986.1 | 984.6 | 986.1 |
| 5°     | 990.9 | 990.4 | 989.9 | 989.4 | 989.0 | 988.0 | 986.6 | 985.1 | 983.7 | 982.2 | 984.1 |
| 7.5°   | 981.1 | 981.3 | 981.4 | 981.4 | 981.5 | 980.9 | 979.5 | 978.1 | 976.7 | 975.3 | 977.7 |
| 10°    | 972.6 | 973.0 | 973.5 | 974.0 | 974.5 | 974.1 | 972.9 | 971.7 | 970.5 | 969.3 | 971.7 |
| 12.5°  | 962.2 | 962.8 | 963.5 | 964.2 | 964.9 | 964.8 | 964.0 | 963.1 | 962.3 | 961.6 | 963.8 |
| 15°    | 943.4 | 944.1 | 944.8 | 945.5 | 946.3 | 946.5 | 946.3 | 946.0 | 945.8 | 945.5 | 948.0 |
| 17.5°  | 919.7 | 921.1 | 922.6 | 924.0 | 925.4 | 926.1 | 926.1 | 925.9 | 925.8 | 925.7 | 927.9 |
| 20°    | 902.5 | 903.9 | 905.3 | 906.7 | 908.2 | 909.2 | 909.7 | 910.1 | 910.6 | 911.1 | 913.2 |
| 22.5°  | 884.3 | 885.7 | 887.2 | 888.7 | 890.1 | 891.1 | 891.8 | 892.5 | 893.2 | 893.8 | 896.5 |
| 25°    | 851.8 | 854.1 | 856.6 | 859.0 | 861.3 | 862.9 | 863.6 | 864.4 | 865.1 | 865.8 | 868.9 |
| 27.5°  | 819.0 | 821.7 | 824.4 | 827.2 | 829.9 | 832.0 | 833.6 | 835.1 | 836.6 | 838.2 | 840.9 |
| 30°    | 795.7 | 798.8 | 801.9 | 805.0 | 808.2 | 810.6 | 812.6 | 814.5 | 816.4 | 818.3 | 821.3 |
| 32.5°  | 769.8 | 773.3 | 776.8 | 780.3 | 783.8 | 786.8 | 789.3 | 791.8 | 794.3 | 796.8 | 799.9 |
| 35°    | 733.2 | 737.0 | 740.8 | 744.7 | 748.5 | 751.9 | 755.1 | 758.2 | 761.3 | 764.5 | 768.0 |
| 37.5°  | 694.3 | 698.7 | 703.0 | 707.3 | 711.6 | 715.7 | 719.5 | 723.3 | 727.1 | 731.0 | 735.1 |
| 40°    | 668.4 | 672.8 | 677.1 | 681.4 | 685.7 | 690.3 | 695.1 | 699.9 | 704.6 | 709.5 | 713.5 |
| 42.5°  | 640.0 | 645.3 | 650.5 | 655.8 | 661.1 | 666.2 | 671.2 | 676.2 | 681.2 | 686.2 | 690.6 |
| 45°    | 599.4 | 605.2 | 611.0 | 616.7 | 622.5 | 628.4 | 634.3 | 640.3 | 646.3 | 652.3 | 656.9 |
| 47.5°  | 557.0 | 563.5 | 570.1 | 576.6 | 583.0 | 589.8 | 596.6 | 603.5 | 610.3 | 617.2 | 622.3 |
| 50°    | 529.4 | 536.1 | 542.8 | 549.5 | 556.2 | 563.3 | 570.7 | 578.1 | 585.6 | 593.0 | 598.5 |
| 52.5°  | 500.0 | 507.2 | 514.3 | 521.3 | 528.5 | 536.1 | 544.3 | 552.5 | 560.6 | 568.9 | 574.6 |
| 55°    | 457.2 | 465.1 | 472.9 | 480.9 | 488.8 | 497.0 | 505.6 | 514.3 | 522.9 | 531.6 | 538.1 |
| 57.5°  | 415.3 | 423.6 | 431.8 | 440.1 | 448.3 | 457.2 | 466.6 | 476.0 | 485.4 | 494.9 | 501.4 |
| 60°    | 386.0 | 394.6 | 403.2 | 411.9 | 420.5 | 429.7 | 439.5 | 449.4 | 459.2 | 469.1 | 475.7 |
| 62.5°  | 358.4 | 367.2 | 376.0 | 384.8 | 393.6 | 403.3 | 413.7 | 424.1 | 434.4 | 444.9 | 451.5 |
| 65°    | 315.9 | 325.3 | 334.6 | 344.0 | 353.3 | 363.2 | 373.8 | 384.3 | 394.8 | 405.4 | 412.6 |
| 67.5°  | 272.7 | 282.7 | 292.6 | 302.5 | 312.4 | 322.8 | 333.5 | 344.3 | 355.0 | 365.8 | 373.6 |
| 70°    | 242.6 | 252.9 | 263.2 | 273.5 | 283.8 | 294.7 | 306.2 | 317.7 | 329.2 | 340.7 | 348.4 |
| 72.5°  | 215.0 | 225.3 | 235.6 | 245.9 | 256.2 | 267.3 | 279.2 | 291.0 | 302.9 | 314.8 | 322.7 |
| 75°    | 171.4 | 182.7 | 193.9 | 205.3 | 216.5 | 228.1 | 240.1 | 252.1 | 264.0 | 276.0 | 283.9 |
| 77.5°  | 133.5 | 144.8 | 156.2 | 167.5 | 178.9 | 190.6 | 202.7 | 214.8 | 226.9 | 238.9 | 247.2 |
| 80°    | 106.7 | 118.5 | 130.2 | 142.0 | 153.7 | 165.8 | 178.2 | 190.8 | 203.2 | 215.6 | 223.8 |
| 82.5°  | 83.4  | 95.4  | 107.3 | 119.2 | 131.2 | 143.5 | 156.1 | 168.7 | 181.4 | 194.1 | 202.2 |
| 85°    | 52.8  | 64.8  | 76.8  | 88.8  | 100.8 | 113.1 | 125.8 | 138.5 | 151.1 | 163.9 | 172.1 |
| 87.5°  | 28.9  | 41.4  | 53.9  | 66.3  | 78.7  | 91.4  | 104.3 | 117.2 | 130.2 | 143.1 | 151.4 |
| 90°    | 15.2  | 29.5  | 44.0  | 58.3  | 72.7  | 87.7  | 103.3 | 119.0 | 134.6 | 150.3 | 159.5 |
| 92.5°  | 35.2  | 45.0  | 54.9  | 64.7  | 74.6  | 86.8  | 101.4 | 116.1 | 130.6 | 145.3 | 154.9 |
| 95°    | 84.1  | 82.6  | 81.2  | 79.8  | 78.3  | 84.9  | 99.6  | 114.2 | 128.8 | 143.5 | 152.7 |
| 97.5°  | 155.7 | 159.4 | 163.0 | 166.5 | 170.2 | 168.0 | 160.3 | 152.6 | 144.8 | 137.1 | 146.4 |
| 100°   | 209.8 | 222.8 | 235.7 | 248.7 | 261.6 | 253.0 | 223.0 | 193.0 | 163.0 | 132.8 | 142.0 |
| 102.5° | 271.5 | 282.2 | 292.9 | 303.6 | 314.3 | 302.6 | 268.6 | 234.6 | 200.6 | 166.5 | 166.8 |
| 105°   | 361.6 | 370.2 | 378.8 | 387.5 | 396.1 | 393.8 | 380.4 | 367.0 | 353.6 | 340.2 | 300.3 |
| 107.5° | 455.5 | 462.7 | 469.8 | 477.1 | 484.3 | 494.6 | 508.2 | 521.7 | 535.2 | 548.7 | 520.9 |
| 110°   | 518.1 | 524.5 | 530.9 | 537.3 | 543.8 | 553.2 | 565.7 | 578.1 | 590.7 | 603.1 | 600.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 578.7  | 584.2  | 589.6  | 595.0  | 600.5  | 609.3  | 621.4  | 633.4  | 645.5  | 657.7  | 663.8  |
| 115°   | 667.4  | 671.8  | 676.3  | 680.8  | 685.2  | 692.9  | 703.9  | 714.9  | 726.0  | 737.0  | 745.3  |
| 117.5° | 754.2  | 757.9  | 761.6  | 765.3  | 769.0  | 775.5  | 784.8  | 794.2  | 803.4  | 812.8  | 820.5  |
| 120°   | 807.2  | 810.8  | 814.4  | 817.9  | 821.6  | 827.7  | 836.4  | 845.0  | 853.7  | 862.4  | 870.1  |
| 122.5° | 862.2  | 864.8  | 867.4  | 869.9  | 872.5  | 878.1  | 886.6  | 895.1  | 903.6  | 912.1  | 918.9  |
| 125°   | 936.4  | 938.6  | 940.6  | 942.8  | 944.9  | 949.9  | 957.9  | 965.9  | 973.9  | 981.9  | 987.5  |
| 127.5° | 1009.4 | 1011.3 | 1013.1 | 1015.0 | 1016.8 | 1021.3 | 1028.3 | 1035.4 | 1042.4 | 1049.4 | 1054.9 |
| 130°   | 1054.9 | 1056.8 | 1058.6 | 1060.5 | 1062.3 | 1066.2 | 1072.1 | 1077.9 | 1083.8 | 1089.6 | 1095.2 |
| 132.5° | 1097.6 | 1099.7 | 1101.7 | 1103.7 | 1105.8 | 1109.2 | 1113.9 | 1118.6 | 1123.2 | 1127.9 | 1133.3 |
| 135°   | 1164.0 | 1165.3 | 1166.6 | 1168.0 | 1169.3 | 1171.8 | 1175.5 | 1179.2 | 1182.9 | 1186.6 | 1191.7 |
| 137.5° | 1220.6 | 1222.4 | 1224.2 | 1226.0 | 1227.8 | 1229.8 | 1231.8 | 1233.9 | 1236.0 | 1238.0 | 1243.1 |
| 140°   | 1257.6 | 1259.2 | 1260.8 | 1262.3 | 1263.9 | 1265.5 | 1267.0 | 1268.5 | 1270.0 | 1271.5 | 1276.1 |
| 142.5° | 1292.7 | 1294.0 | 1295.5 | 1296.8 | 1298.2 | 1299.4 | 1300.3 | 1301.2 | 1302.2 | 1303.1 | 1307.2 |
| 145°   | 1341.7 | 1343.3 | 1344.9 | 1346.6 | 1348.1 | 1349.2 | 1349.7 | 1350.2 | 1350.8 | 1351.3 | 1353.8 |
| 147.5° | 1386.8 | 1388.1 | 1389.3 | 1390.4 | 1391.6 | 1392.5 | 1393.1 | 1393.6 | 1394.1 | 1394.6 | 1395.7 |
| 150°   | 1415.2 | 1416.0 | 1416.8 | 1417.6 | 1418.4 | 1419.0 | 1419.6 | 1420.1 | 1420.6 | 1421.2 | 1421.7 |
| 152.5° | 1440.8 | 1441.2 | 1441.5 | 1441.9 | 1442.3 | 1442.6 | 1443.0 | 1443.3 | 1443.6 | 1443.9 | 1444.9 |
| 155°   | 1476.8 | 1476.3 | 1475.8 | 1475.3 | 1474.7 | 1474.6 | 1474.9 | 1475.1 | 1475.4 | 1475.6 | 1476.9 |
| 157.5° | 1504.8 | 1504.8 | 1504.7 | 1504.6 | 1504.6 | 1504.4 | 1504.1 | 1503.9 | 1503.6 | 1503.3 | 1504.9 |
| 160°   | 1521.9 | 1521.5 | 1521.3 | 1521.1 | 1520.8 | 1520.5 | 1520.3 | 1520.0 | 1519.7 | 1519.5 | 1521.1 |
| 162.5° | 1537.9 | 1537.2 | 1536.6 | 1535.9 | 1535.2 | 1534.7 | 1534.5 | 1534.2 | 1533.9 | 1533.7 | 1535.5 |
| 165°   | 1557.4 | 1556.6 | 1555.8 | 1555.0 | 1554.2 | 1553.7 | 1553.4 | 1553.2 | 1552.9 | 1552.6 | 1554.7 |
| 167.5° | 1572.5 | 1571.5 | 1570.4 | 1569.4 | 1568.3 | 1567.8 | 1567.8 | 1567.8 | 1567.8 | 1567.8 | 1569.9 |
| 170°   | 1581.0 | 1580.0 | 1578.9 | 1577.9 | 1576.8 | 1576.3 | 1576.3 | 1576.3 | 1576.3 | 1576.3 | 1578.4 |
| 172.5° | 1586.7 | 1585.5 | 1584.2 | 1582.9 | 1581.7 | 1581.1 | 1581.4 | 1581.6 | 1581.8 | 1582.0 | 1584.1 |
| 175°   | 1594.0 | 1592.8 | 1591.4 | 1590.1 | 1588.8 | 1588.2 | 1588.6 | 1588.8 | 1589.0 | 1589.4 | 1591.2 |
| 177.5° | 1595.9 | 1594.9 | 1593.9 | 1592.8 | 1591.7 | 1591.3 | 1591.6 | 1591.7 | 1592.0 | 1592.2 | 1593.9 |
| 180°   | 1594.0 | 1594.0 | 1594.0 | 1594.0 | 1594.0 | 1594.0 | 1594.0 | 1594.0 | 1594.0 | 1594.0 | 1594.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 | 989.8 |
| 2.5°   | 987.7 | 989.2 | 990.7 | 991.4 | 991.2 | 991.0 | 990.9 | 990.6 |
| 5°     | 986.0 | 988.0 | 989.9 | 990.7 | 990.5 | 990.2 | 990.0 | 989.8 |
| 7.5°   | 980.1 | 982.5 | 984.9 | 986.0 | 985.7 | 985.4 | 985.1 | 984.8 |
| 10°    | 974.1 | 976.4 | 978.9 | 979.9 | 979.4 | 978.9 | 978.4 | 977.9 |
| 12.5°  | 965.9 | 968.1 | 970.3 | 971.2 | 970.7 | 970.3 | 969.8 | 969.3 |
| 15°    | 950.4 | 952.8 | 955.1 | 956.2 | 956.0 | 955.8 | 955.5 | 955.3 |
| 17.5°  | 930.0 | 932.2 | 934.4 | 935.3 | 934.9 | 934.6 | 934.3 | 933.9 |
| 20°    | 915.4 | 917.5 | 919.7 | 920.9 | 921.1 | 921.4 | 921.6 | 921.9 |
| 22.5°  | 899.3 | 902.0 | 904.8 | 906.0 | 905.9 | 905.8 | 905.6 | 905.5 |
| 25°    | 872.0 | 875.1 | 878.2 | 879.8 | 879.8 | 879.8 | 879.8 | 879.8 |
| 27.5°  | 843.5 | 846.2 | 848.9 | 850.3 | 850.6 | 850.7 | 851.0 | 851.1 |
| 30°    | 824.1 | 827.0 | 829.8 | 831.3 | 831.3 | 831.3 | 831.3 | 831.3 |
| 32.5°  | 803.0 | 806.0 | 809.1 | 810.9 | 811.4 | 812.0 | 812.6 | 813.2 |
| 35°    | 771.6 | 775.2 | 778.8 | 781.1 | 782.0 | 783.0 | 783.9 | 784.9 |
| 37.5°  | 739.2 | 743.2 | 747.3 | 749.7 | 750.5 | 751.2 | 752.0 | 752.8 |
| 40°    | 717.6 | 721.7 | 725.7 | 728.3 | 729.2 | 730.2 | 731.1 | 732.1 |
| 42.5°  | 695.1 | 699.5 | 704.0 | 706.9 | 708.2 | 709.6 | 710.9 | 712.3 |
| 45°    | 661.4 | 666.0 | 670.5 | 673.8 | 675.7 | 677.6 | 679.5 | 681.4 |
| 47.5°  | 627.4 | 632.6 | 637.6 | 641.0 | 642.5 | 644.0 | 645.4 | 646.9 |
| 50°    | 604.0 | 609.5 | 615.1 | 618.6 | 620.4 | 622.0 | 623.7 | 625.3 |
| 52.5°  | 580.3 | 586.0 | 591.7 | 595.6 | 597.6 | 599.7 | 601.7 | 603.8 |
| 55°    | 544.5 | 551.0 | 557.5 | 561.6 | 563.6 | 565.5 | 567.4 | 569.3 |
| 57.5°  | 507.9 | 514.4 | 520.9 | 525.4 | 527.6 | 529.8 | 532.1 | 534.3 |
| 60°    | 482.4 | 489.2 | 495.8 | 500.5 | 503.2 | 505.8 | 508.4 | 511.0 |
| 62.5°  | 458.3 | 465.0 | 471.7 | 476.3 | 478.7 | 481.2 | 483.6 | 486.1 |
| 65°    | 419.8 | 427.0 | 434.1 | 438.9 | 441.3 | 443.7 | 446.2 | 448.5 |
| 67.5°  | 381.4 | 389.3 | 397.1 | 402.1 | 404.1 | 406.2 | 408.1 | 410.1 |
| 70°    | 356.0 | 363.7 | 371.4 | 376.4 | 378.8 | 381.2 | 383.6 | 386.0 |
| 72.5°  | 330.6 | 338.4 | 346.3 | 351.4 | 353.8 | 356.2 | 358.6 | 361.0 |
| 75°    | 291.8 | 299.8 | 307.6 | 313.1 | 315.9 | 318.8 | 321.6 | 324.6 |
| 77.5°  | 255.6 | 264.0 | 272.3 | 277.6 | 279.7 | 281.9 | 284.2 | 286.4 |
| 80°    | 232.0 | 240.1 | 248.2 | 253.5 | 255.9 | 258.3 | 260.7 | 263.1 |
| 82.5°  | 210.4 | 218.5 | 226.6 | 232.0 | 234.3 | 236.7 | 239.1 | 241.5 |
| 85°    | 180.1 | 188.3 | 196.5 | 201.8 | 204.1 | 206.5 | 208.9 | 211.4 |
| 87.5°  | 159.8 | 168.1 | 176.5 | 181.9 | 184.4 | 186.9 | 189.4 | 191.9 |
| 90°    | 168.7 | 177.8 | 187.0 | 193.1 | 196.1 | 199.0 | 201.8 | 204.8 |
| 92.5°  | 164.5 | 174.2 | 183.8 | 189.9 | 192.4 | 195.0 | 197.4 | 199.9 |
| 95°    | 162.0 | 171.3 | 180.5 | 186.4 | 188.8 | 191.2 | 193.5 | 196.0 |
| 97.5°  | 155.6 | 164.9 | 174.1 | 180.1 | 182.7 | 185.4 | 188.0 | 190.7 |
| 100°   | 151.0 | 160.0 | 169.1 | 175.0 | 177.6 | 180.3 | 182.9 | 185.6 |
| 102.5° | 167.0 | 167.2 | 167.5 | 169.1 | 171.9 | 174.8 | 177.6 | 180.5 |
| 105°   | 260.5 | 220.6 | 180.7 | 162.2 | 164.9 | 167.5 | 170.2 | 172.9 |
| 107.5° | 493.2 | 465.5 | 437.8 | 407.3 | 374.4 | 341.4 | 308.4 | 275.4 |
| 110°   | 598.2 | 595.7 | 593.3 | 574.3 | 538.5 | 502.8 | 467.1 | 431.3 |





TEST NUMBER: P332206-927

CATALOG NUMBER: S123DIW-S1000D1535U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 670.0  | 676.2  | 682.4  | 682.6  | 676.8  | 670.9  | 665.1  | 659.3  |
| 115°   | 753.7  | 762.1  | 770.5  | 776.1  | 779.1  | 782.0  | 785.1  | 788.0  |
| 117.5° | 828.4  | 836.1  | 844.0  | 848.9  | 851.0  | 853.1  | 855.2  | 857.2  |
| 120°   | 877.7  | 885.3  | 892.9  | 897.5  | 899.2  | 900.9  | 902.6  | 904.3  |
| 122.5° | 925.7  | 932.6  | 939.3  | 943.6  | 945.5  | 947.5  | 949.4  | 951.2  |
| 125°   | 993.1  | 998.6  | 1004.2 | 1008.1 | 1010.3 | 1012.5 | 1014.6 | 1016.8 |
| 127.5° | 1060.6 | 1066.1 | 1071.7 | 1075.1 | 1076.2 | 1077.3 | 1078.4 | 1079.5 |
| 130°   | 1100.8 | 1106.4 | 1112.0 | 1115.2 | 1116.2 | 1117.1 | 1118.0 | 1118.9 |
| 132.5° | 1138.8 | 1144.1 | 1149.5 | 1152.7 | 1153.6 | 1154.5 | 1155.4 | 1156.3 |
| 135°   | 1196.7 | 1201.9 | 1207.0 | 1209.7 | 1210.1 | 1210.5 | 1210.9 | 1211.4 |
| 137.5° | 1248.1 | 1253.2 | 1258.2 | 1261.1 | 1261.7 | 1262.4 | 1263.1 | 1263.8 |
| 140°   | 1280.8 | 1285.5 | 1290.1 | 1292.8 | 1293.4 | 1294.1 | 1294.7 | 1295.5 |
| 142.5° | 1311.2 | 1315.3 | 1319.3 | 1321.6 | 1322.1 | 1322.5 | 1322.9 | 1323.4 |
| 145°   | 1356.1 | 1358.6 | 1361.0 | 1362.8 | 1363.7 | 1364.7 | 1365.6 | 1366.6 |
| 147.5° | 1396.9 | 1398.0 | 1399.1 | 1399.4 | 1399.1 | 1398.8 | 1398.4 | 1398.0 |
| 150°   | 1422.2 | 1422.8 | 1423.2 | 1423.4 | 1423.1 | 1422.8 | 1422.4 | 1422.1 |
| 152.5° | 1445.8 | 1446.8 | 1447.7 | 1447.6 | 1446.5 | 1445.3 | 1444.2 | 1443.1 |
| 155°   | 1478.3 | 1479.6 | 1480.9 | 1480.7 | 1479.2 | 1477.6 | 1476.0 | 1474.5 |
| 157.5° | 1506.5 | 1508.1 | 1509.7 | 1509.4 | 1507.4 | 1505.3 | 1503.2 | 1501.2 |
| 160°   | 1522.7 | 1524.2 | 1525.7 | 1525.7 | 1523.8 | 1521.9 | 1520.1 | 1518.3 |
| 162.5° | 1537.2 | 1539.1 | 1540.8 | 1540.9 | 1539.3 | 1537.6 | 1536.0 | 1534.4 |
| 165°   | 1556.8 | 1558.9 | 1561.1 | 1561.2 | 1559.3 | 1557.5 | 1555.6 | 1553.8 |
| 167.5° | 1572.0 | 1574.1 | 1576.2 | 1576.2 | 1574.1 | 1572.0 | 1569.9 | 1567.8 |
| 170°   | 1580.5 | 1582.6 | 1584.8 | 1584.8 | 1582.6 | 1580.5 | 1578.4 | 1576.3 |
| 172.5° | 1586.2 | 1588.3 | 1590.4 | 1590.3 | 1588.0 | 1585.7 | 1583.3 | 1581.0 |
| 175°   | 1593.0 | 1594.8 | 1596.7 | 1596.6 | 1594.4 | 1592.4 | 1590.2 | 1588.2 |
| 177.5° | 1595.5 | 1597.2 | 1598.9 | 1598.7 | 1596.6 | 1594.5 | 1592.4 | 1590.3 |
| 180°   | 1594.0 | 1594.0 | 1594.0 | 1594.0 | 1594.0 | 1594.0 | 1594.0 | 1594.0 |

(END OF REPORT)