

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: P332767-830

Luminaire Tested: **S124DIW-S575D1340U830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332767-830  
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-S575D1340U830-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1340 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7409.7 lumens  
Efficiency: N/A  
Efficacy: 137.7 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: Semi-Indirect

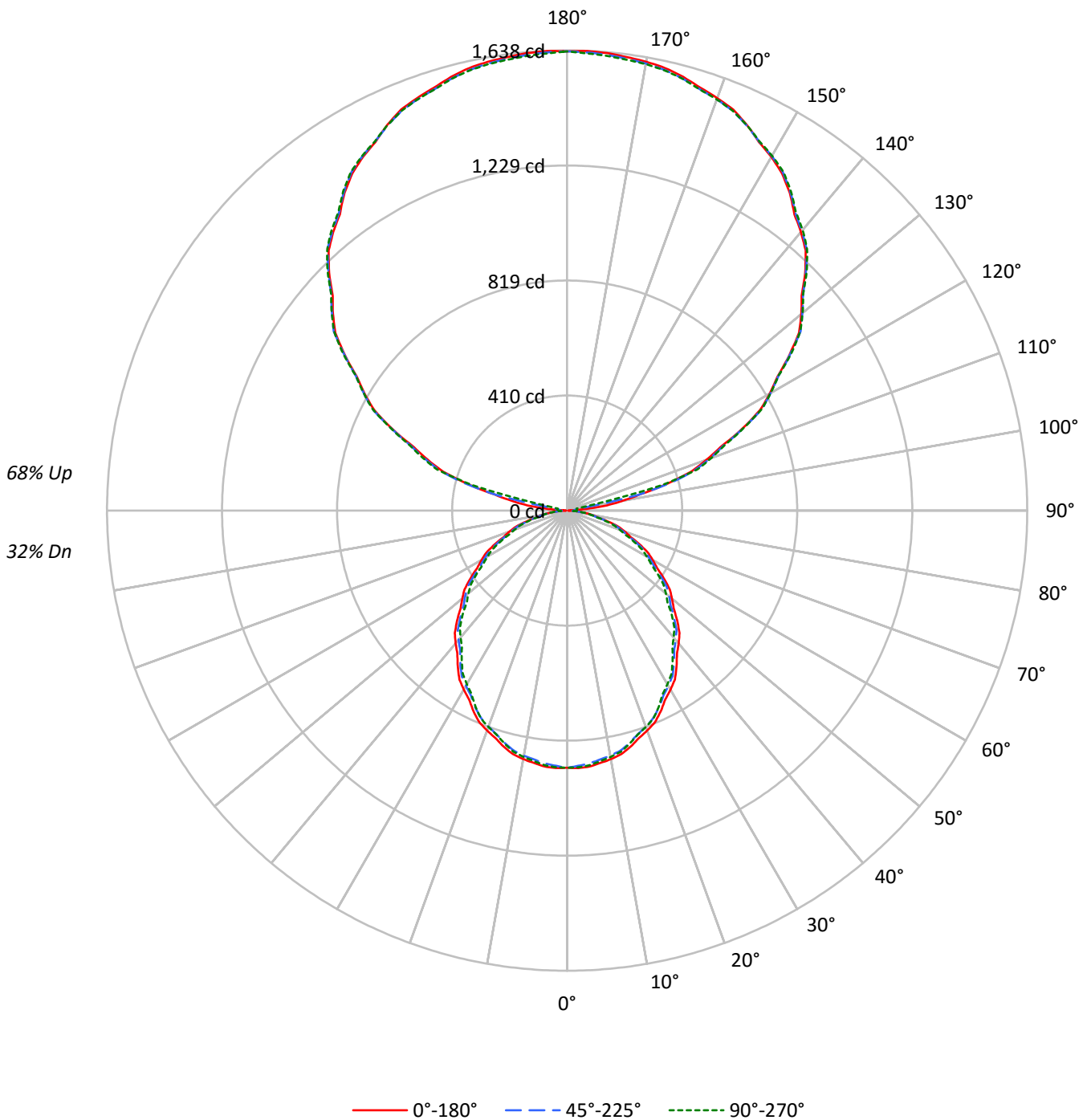
Input Watts (W): 53.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332767-830

CATALOG NUMBER: S124DIW-S575D1340U830-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P332767-830

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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 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 56 | 56 | 56 | 39 | 39 | 39 | 32 |    |    |    |   |
| 1   | 94  | 89  | 86  | 82  | 84 | 81 | 77 | 75 | 64 | 62 | 60 | 49 | 47 | 46 | 35 | 34 | 33 | 27 |    |    |    |   |
| 2   | 85  | 78  | 72  | 67  | 76 | 70 | 65 | 61 | 56 | 53 | 49 | 43 | 40 | 38 | 31 | 29 | 28 | 22 |    |    |    |   |
| 3   | 78  | 69  | 61  | 56  | 70 | 62 | 56 | 51 | 49 | 45 | 42 | 38 | 35 | 32 | 27 | 25 | 24 | 19 |    |    |    |   |
| 4   | 71  | 61  | 53  | 47  | 64 | 55 | 48 | 43 | 44 | 39 | 35 | 34 | 30 | 28 | 24 | 22 | 20 | 16 |    |    |    |   |
| 5   | 65  | 54  | 46  | 40  | 58 | 49 | 42 | 37 | 39 | 34 | 30 | 30 | 27 | 24 | 22 | 20 | 18 | 14 |    |    |    |   |
| 6   | 60  | 48  | 40  | 35  | 54 | 44 | 37 | 32 | 35 | 30 | 26 | 27 | 24 | 21 | 20 | 17 | 16 | 12 |    |    |    |   |
| 7   | 55  | 43  | 36  | 30  | 50 | 39 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 18 | 18 | 16 | 14 | 11 |    |    |    |   |
| 8   | 51  | 39  | 32  | 27  | 46 | 36 | 29 | 25 | 29 | 24 | 20 | 22 | 19 | 16 | 16 | 14 | 12 | 10 |    |    |    |   |
| 9   | 48  | 36  | 28  | 24  | 43 | 33 | 26 | 22 | 26 | 22 | 18 | 21 | 17 | 15 | 15 | 13 | 11 | 9  |    |    |    |   |
| 10  | 44  | 33  | 26  | 21  | 40 | 30 | 24 | 19 | 24 | 20 | 16 | 19 | 16 | 13 | 14 | 12 | 10 | 8  |    |    |    |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7389 | 7389 | 7389 |
| 5°  | 7412 | 7323 | 7376 |
| 10° | 7365 | 7263 | 7299 |
| 15° | 7276 | 7160 | 7178 |
| 20° | 7158 | 7032 | 7039 |
| 25° | 7023 | 6886 | 6866 |
| 30° | 6858 | 6715 | 6652 |
| 35° | 6686 | 6535 | 6447 |
| 40° | 6509 | 6330 | 6215 |
| 45° | 6322 | 6130 | 6012 |
| 50° | 6116 | 5951 | 5766 |
| 55° | 5895 | 5719 | 5533 |
| 60° | 5672 | 5459 | 5293 |
| 65° | 5421 | 5213 | 5001 |
| 70° | 5141 | 4881 | 4692 |
| 75° | 4713 | 4482 | 4370 |
| 80° | 4193 | 4021 | 3924 |
| 85° | 3668 | 3538 | 3464 |



TEST NUMBER: P332767-830

CATALOG NUMBER: S124DIW-S575D1340U830-4F0-1E-UDD-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.2   | 1.2       |
| 10°-20°   | 242.9  | 3.3       |
| 20°-30°   | 357.5  | 4.8       |
| 30°-40°   | 415.6  | 5.6       |
| 40°-50°   | 415.6  | 5.6       |
| 50°-60°   | 363.5  | 4.9       |
| 60°-70°   | 270.0  | 3.6       |
| 70°-80°   | 153.4  | 2.1       |
| 80°-90°   | 49.0   | 0.7       |
| 90°-100°  | 55.9   | 0.8       |
| 100°-110° | 356.4  | 4.8       |
| 110°-120° | 681.9  | 9.2       |
| 120°-130° | 865.6  | 11.7      |
| 130°-140° | 926.1  | 12.5      |
| 140°-150° | 866.0  | 11.7      |
| 150°-160° | 698.4  | 9.4       |
| 160°-170° | 450.5  | 6.1       |
| 170°-180° | 155.3  | 2.1       |
| 0°-30°    | 686.6  | 9.3       |
| 0°-40°    | 1102.1 | 14.9      |
| 0°-60°    | 1881.3 | 25.4      |
| 0°-90°    | 2353.6 | 31.8      |
| 90°-120°  | 1094.2 | 14.8      |
| 90°-150°  | 3752.0 | 50.6      |
| 90°-180°  | 5056.0 | 68.2      |
| 0°-180°   | 7409.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 915  | 915   | 915  | 915   | 915  |      |
| 5°   | 915  | 911   | 904  | 911   | 910  | 87   |
| 15°  | 871  | 867   | 857  | 861   | 859  | 245  |
| 25°  | 788  | 783   | 773  | 774   | 771  | 363  |
| 35°  | 678  | 673   | 663  | 658   | 654  | 424  |
| 45°  | 554  | 548   | 537  | 529   | 527  | 427  |
| 55°  | 419  | 416   | 406  | 398   | 393  | 375  |
| 65°  | 284  | 280   | 273  | 266   | 262  | 281  |
| 75°  | 151  | 147   | 144  | 141   | 140  | 161  |
| 85°  | 40   | 40    | 38   | 38    | 37   | 44   |
| 90°  | 4    | 17    | 27   | 34    | 37   | 5    |
| 95°  | 67   | 28    | 27   | 34    | 35   | 86   |
| 105° | 368  | 375   | 381  | 389   | 348  | 385  |
| 115° | 687  | 690   | 690  | 692   | 692  | 676  |
| 125° | 966  | 970   | 968  | 972   | 973  | 862  |
| 135° | 1198 | 1197  | 1202 | 1204  | 1207 | 923  |
| 145° | 1382 | 1385  | 1385 | 1386  | 1389 | 863  |
| 155° | 1515 | 1516  | 1512 | 1517  | 1514 | 698  |
| 165° | 1598 | 1592  | 1592 | 1600  | 1590 | 451  |
| 175° | 1635 | 1628  | 1628 | 1638  | 1625 | 156  |
| 180° | 1635 | 1635  | 1635 | 1635  | 1635 |      |



TEST NUMBER: P332767-830

CATALOG NUMBER: S124DIW-S575D1340U830-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 915.3 | 915.3 | 915.3 | 915.3 | 915.3 | 915.3 | 915.3 | 915.3 | 915.3 | 915.3 | 915.3 |
| 2.5°   | 917.7 | 917.3 | 916.9 | 916.5 | 916.2 | 915.2 | 913.8 | 912.4 | 910.9 | 909.5 | 910.8 |
| 5°     | 914.6 | 914.0 | 913.3 | 912.7 | 912.0 | 910.8 | 909.0 | 907.2 | 905.4 | 903.6 | 905.4 |
| 7.5°   | 906.1 | 905.4 | 904.8 | 904.2 | 903.5 | 902.2 | 900.2 | 898.2 | 896.2 | 894.2 | 895.7 |
| 10°    | 898.4 | 897.9 | 897.2 | 896.5 | 895.9 | 894.5 | 892.4 | 890.2 | 888.2 | 886.0 | 887.3 |
| 12.5°  | 888.5 | 887.9 | 887.2 | 886.6 | 885.9 | 884.5 | 882.2 | 880.0 | 877.7 | 875.4 | 876.8 |
| 15°    | 870.6 | 870.0 | 869.3 | 868.6 | 868.0 | 866.5 | 864.0 | 861.6 | 859.1 | 856.7 | 857.6 |
| 17.5°  | 849.0 | 848.2 | 847.4 | 846.6 | 845.7 | 844.2 | 841.9 | 839.6 | 837.3 | 835.0 | 835.6 |
| 20°    | 833.2 | 832.4 | 831.6 | 830.8 | 829.9 | 828.3 | 825.9 | 823.4 | 821.0 | 818.5 | 819.0 |
| 22.5°  | 816.1 | 815.1 | 814.1 | 812.9 | 811.9 | 810.1 | 807.7 | 805.2 | 802.8 | 800.3 | 801.3 |
| 25°    | 788.4 | 787.3 | 786.2 | 785.0 | 783.9 | 782.2 | 779.9 | 777.6 | 775.3 | 773.1 | 773.3 |
| 27.5°  | 756.8 | 755.6 | 754.4 | 753.3 | 752.1 | 750.5 | 748.3 | 746.2 | 744.0 | 742.0 | 741.6 |
| 30°    | 735.7 | 734.3 | 733.0 | 731.7 | 730.5 | 728.7 | 726.6 | 724.4 | 722.4 | 720.3 | 719.6 |
| 32.5°  | 713.3 | 712.2 | 711.0 | 709.8 | 708.7 | 706.9 | 704.7 | 702.5 | 700.2 | 698.0 | 697.2 |
| 35°    | 678.4 | 677.3 | 676.2 | 675.0 | 673.9 | 672.1 | 669.9 | 667.6 | 665.3 | 663.1 | 661.9 |
| 37.5°  | 641.6 | 640.6 | 639.5 | 638.5 | 637.4 | 635.7 | 633.3 | 630.8 | 628.4 | 625.9 | 624.7 |
| 40°    | 617.6 | 616.2 | 614.9 | 613.7 | 612.4 | 610.5 | 608.0 | 605.6 | 603.1 | 600.7 | 599.1 |
| 42.5°  | 591.7 | 591.0 | 590.2 | 589.4 | 588.6 | 586.8 | 584.2 | 581.5 | 578.7 | 576.1 | 574.2 |
| 45°    | 553.7 | 552.6 | 551.5 | 550.4 | 549.2 | 547.3 | 544.7 | 542.1 | 539.5 | 536.9 | 535.1 |
| 47.5°  | 514.0 | 513.2 | 512.5 | 511.6 | 510.9 | 509.3 | 506.9 | 504.4 | 502.0 | 499.6 | 497.6 |
| 50°    | 487.0 | 486.4 | 485.7 | 485.0 | 484.4 | 483.0 | 480.7 | 478.3 | 476.1 | 473.8 | 471.6 |
| 52.5°  | 460.6 | 459.9 | 459.0 | 458.3 | 457.5 | 455.9 | 453.5 | 451.1 | 448.7 | 446.2 | 444.2 |
| 55°    | 418.8 | 418.3 | 417.8 | 417.4 | 416.9 | 415.5 | 413.2 | 410.9 | 408.6 | 406.3 | 404.4 |
| 57.5°  | 378.9 | 378.3 | 377.8 | 377.2 | 376.6 | 375.3 | 373.1 | 370.8 | 368.5 | 366.3 | 364.4 |
| 60°    | 351.3 | 350.5 | 349.7 | 348.8 | 348.1 | 346.6 | 344.5 | 342.3 | 340.3 | 338.1 | 336.7 |
| 62.5°  | 324.3 | 323.7 | 322.9 | 322.3 | 321.6 | 320.1 | 317.9 | 315.7 | 313.4 | 311.1 | 309.8 |
| 65°    | 283.8 | 283.0 | 282.2 | 281.4 | 280.6 | 279.4 | 277.8 | 276.1 | 274.5 | 272.9 | 271.2 |
| 67.5°  | 243.1 | 242.3 | 241.6 | 240.8 | 240.1 | 238.9 | 237.3 | 235.8 | 234.2 | 232.6 | 231.1 |
| 70°    | 217.8 | 216.7 | 215.6 | 214.4 | 213.3 | 212.1 | 210.8 | 209.4 | 208.1 | 206.8 | 205.6 |
| 72.5°  | 190.9 | 189.7 | 188.6 | 187.4 | 186.2 | 185.2 | 184.2 | 183.1 | 182.1 | 181.0 | 179.9 |
| 75°    | 151.1 | 150.2 | 149.5 | 148.6 | 147.8 | 147.0 | 146.2 | 145.3 | 144.6 | 143.7 | 143.1 |
| 77.5°  | 113.1 | 112.7 | 112.4 | 112.1 | 111.7 | 111.1 | 110.4 | 109.7 | 109.0 | 108.3 | 108.0 |
| 80°    | 90.2  | 89.7  | 89.3  | 88.8  | 88.2  | 87.8  | 87.6  | 87.2  | 86.9  | 86.5  | 86.2  |
| 82.5°  | 68.0  | 67.7  | 67.5  | 67.2  | 67.0  | 66.8  | 66.8  | 66.7  | 66.6  | 66.6  | 66.4  |
| 85°    | 39.6  | 39.6  | 39.6  | 39.6  | 39.6  | 39.4  | 39.1  | 38.8  | 38.5  | 38.2  | 38.2  |
| 87.5°  | 16.0  | 16.5  | 17.0  | 17.4  | 17.8  | 18.3  | 18.6  | 18.9  | 19.1  | 19.4  | 19.8  |
| 90°    | 3.7   | 6.7   | 9.6   | 12.6  | 15.6  | 18.2  | 20.4  | 22.5  | 24.7  | 26.9  | 28.6  |
| 92.5°  | 15.4  | 15.6  | 15.7  | 15.9  | 16.0  | 17.2  | 19.4  | 21.6  | 23.8  | 25.9  | 27.5  |
| 95°    | 67.2  | 58.0  | 48.7  | 39.5  | 30.3  | 25.8  | 26.1  | 26.4  | 26.6  | 26.9  | 28.6  |
| 97.5°  | 142.8 | 148.5 | 154.3 | 160.0 | 165.8 | 153.5 | 123.2 | 92.9  | 62.6  | 32.2  | 32.4  |
| 100°   | 200.5 | 205.4 | 210.3 | 215.2 | 220.1 | 203.8 | 166.3 | 128.8 | 91.2  | 53.8  | 49.2  |
| 102.5° | 265.0 | 268.6 | 272.2 | 275.8 | 279.4 | 278.7 | 273.8 | 269.0 | 264.1 | 259.2 | 209.3 |
| 105°   | 368.0 | 369.6 | 371.3 | 372.9 | 374.5 | 376.0 | 377.4 | 378.7 | 380.0 | 381.4 | 383.9 |
| 107.5° | 463.5 | 464.4 | 465.2 | 466.0 | 466.8 | 468.2 | 470.0 | 471.8 | 473.7 | 475.6 | 476.7 |
| 110°   | 528.1 | 529.0 | 529.8 | 530.6 | 531.4 | 532.6 | 534.2 | 535.8 | 537.5 | 539.1 | 539.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 590.7  | 592.2  | 593.7  | 595.1  | 596.6  | 597.7  | 598.5  | 599.3  | 600.0  | 600.8  | 600.7  |
| 115°   | 687.0  | 687.9  | 688.7  | 689.5  | 690.3  | 690.6  | 690.3  | 690.0  | 689.8  | 689.5  | 690.0  |
| 117.5° | 773.8  | 775.0  | 776.0  | 777.1  | 778.2  | 779.0  | 779.7  | 780.2  | 780.8  | 781.5  | 781.4  |
| 120°   | 832.5  | 833.6  | 834.7  | 835.8  | 836.9  | 837.3  | 837.1  | 836.8  | 836.5  | 836.2  | 836.8  |
| 122.5° | 887.3  | 888.0  | 888.6  | 889.3  | 889.9  | 890.4  | 890.8  | 891.2  | 891.6  | 891.9  | 892.3  |
| 125°   | 965.8  | 966.9  | 968.0  | 969.0  | 970.2  | 970.4  | 969.9  | 969.3  | 968.7  | 968.3  | 969.0  |
| 127.5° | 1040.1 | 1040.4 | 1040.7 | 1040.9 | 1041.2 | 1042.0 | 1043.2 | 1044.4 | 1045.8 | 1047.0 | 1046.8 |
| 130°   | 1088.1 | 1088.4 | 1088.6 | 1088.8 | 1089.1 | 1089.7 | 1090.5 | 1091.3 | 1092.1 | 1093.0 | 1093.3 |
| 132.5° | 1132.1 | 1132.6 | 1133.0 | 1133.5 | 1134.0 | 1134.8 | 1135.9 | 1136.8 | 1137.8 | 1138.9 | 1139.2 |
| 135°   | 1198.1 | 1197.8 | 1197.5 | 1197.3 | 1197.0 | 1197.4 | 1198.4 | 1199.6 | 1200.7 | 1201.7 | 1202.3 |
| 137.5° | 1256.5 | 1256.6 | 1256.7 | 1256.9 | 1257.0 | 1257.6 | 1258.8 | 1260.0 | 1261.2 | 1262.3 | 1263.0 |
| 140°   | 1294.7 | 1295.2 | 1295.7 | 1296.3 | 1296.8 | 1297.4 | 1297.9 | 1298.4 | 1299.0 | 1299.6 | 1300.3 |
| 142.5° | 1328.9 | 1329.8 | 1330.9 | 1331.8 | 1332.8 | 1333.4 | 1333.8 | 1334.1 | 1334.5 | 1334.7 | 1335.4 |
| 145°   | 1381.5 | 1382.2 | 1383.1 | 1383.9 | 1384.7 | 1385.2 | 1385.2 | 1385.2 | 1385.2 | 1385.2 | 1385.4 |
| 147.5° | 1423.2 | 1424.7 | 1426.3 | 1427.9 | 1429.4 | 1430.0 | 1429.7 | 1429.5 | 1429.2 | 1428.9 | 1429.1 |
| 150°   | 1453.6 | 1454.7 | 1455.8 | 1456.9 | 1457.9 | 1458.3 | 1458.1 | 1457.8 | 1457.5 | 1457.3 | 1457.3 |
| 152.5° | 1479.0 | 1479.9 | 1480.7 | 1481.6 | 1482.5 | 1482.7 | 1482.2 | 1481.7 | 1481.2 | 1480.7 | 1481.2 |
| 155°   | 1514.8 | 1514.9 | 1515.2 | 1515.5 | 1515.8 | 1515.5 | 1514.8 | 1513.9 | 1513.1 | 1512.3 | 1513.3 |
| 157.5° | 1544.8 | 1544.6 | 1544.5 | 1544.3 | 1544.2 | 1543.6 | 1542.7 | 1541.7 | 1540.9 | 1539.9 | 1541.3 |
| 160°   | 1562.4 | 1561.6 | 1560.8 | 1559.9 | 1559.2 | 1558.6 | 1558.3 | 1558.0 | 1557.7 | 1557.6 | 1559.2 |
| 162.5° | 1578.0 | 1577.0 | 1576.0 | 1575.0 | 1574.0 | 1573.3 | 1573.0 | 1572.7 | 1572.4 | 1572.2 | 1573.8 |
| 165°   | 1597.9 | 1596.5 | 1595.2 | 1593.7 | 1592.4 | 1591.8 | 1591.8 | 1591.8 | 1591.8 | 1591.8 | 1593.9 |
| 167.5° | 1613.5 | 1612.1 | 1610.7 | 1609.3 | 1607.9 | 1607.0 | 1606.9 | 1606.8 | 1606.6 | 1606.4 | 1608.8 |
| 170°   | 1622.3 | 1620.7 | 1619.0 | 1617.4 | 1615.8 | 1615.1 | 1615.3 | 1615.6 | 1615.9 | 1616.2 | 1618.3 |
| 172.5° | 1628.1 | 1626.5 | 1624.9 | 1623.2 | 1621.6 | 1621.0 | 1621.3 | 1621.6 | 1621.7 | 1622.0 | 1624.2 |
| 175°   | 1634.6 | 1632.9 | 1631.3 | 1629.7 | 1628.0 | 1627.3 | 1627.6 | 1627.9 | 1628.1 | 1628.4 | 1630.9 |
| 177.5° | 1637.5 | 1636.0 | 1634.4 | 1632.9 | 1631.4 | 1630.8 | 1631.3 | 1631.7 | 1632.1 | 1632.6 | 1634.3 |
| 180°   | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 915.3 | 915.3 | 915.3 | 915.3 | 915.3 | 915.3 | 915.3 | 915.3 |
| 2.5°   | 912.1 | 913.4 | 914.7 | 915.3 | 915.1 | 915.0 | 914.9 | 914.7 |
| 5°     | 907.2 | 909.0 | 910.8 | 911.5 | 911.2 | 910.9 | 910.5 | 910.2 |
| 7.5°   | 897.1 | 898.5 | 899.9 | 900.6 | 900.4 | 900.2 | 900.0 | 899.8 |
| 10°    | 888.6 | 889.9 | 891.3 | 891.7 | 891.4 | 891.1 | 890.7 | 890.4 |
| 12.5°  | 878.4 | 879.8 | 881.2 | 881.7 | 881.2 | 880.7 | 880.3 | 879.9 |
| 15°    | 858.7 | 859.6 | 860.5 | 860.8 | 860.4 | 859.9 | 859.3 | 858.8 |
| 17.5°  | 836.2 | 836.8 | 837.4 | 837.5 | 837.3 | 836.9 | 836.6 | 836.3 |
| 20°    | 819.5 | 820.0 | 820.5 | 820.6 | 820.2 | 819.9 | 819.6 | 819.3 |
| 22.5°  | 802.1 | 803.0 | 803.9 | 804.0 | 803.4 | 802.9 | 802.3 | 801.6 |
| 25°    | 773.4 | 773.5 | 773.7 | 773.5 | 772.8 | 772.1 | 771.5 | 770.8 |
| 27.5°  | 741.2 | 740.7 | 740.4 | 739.8 | 739.0 | 738.2 | 737.4 | 736.5 |
| 30°    | 719.0 | 718.3 | 717.7 | 716.9 | 716.0 | 715.3 | 714.4 | 713.6 |
| 32.5°  | 696.4 | 695.6 | 694.8 | 694.0 | 693.2 | 692.4 | 691.5 | 690.8 |
| 35°    | 660.7 | 659.6 | 658.5 | 657.5 | 656.7 | 655.8 | 655.1 | 654.2 |
| 37.5°  | 623.5 | 622.2 | 620.9 | 619.8 | 618.8 | 617.6 | 616.6 | 615.5 |
| 40°    | 597.5 | 595.8 | 594.2 | 593.0 | 592.1 | 591.4 | 590.5 | 589.7 |
| 42.5°  | 572.3 | 570.3 | 568.4 | 567.2 | 566.8 | 566.2 | 565.6 | 565.1 |
| 45°    | 533.3 | 531.5 | 529.7 | 528.6 | 528.1 | 527.6 | 527.1 | 526.6 |
| 47.5°  | 495.6 | 493.5 | 491.5 | 489.9 | 488.7 | 487.4 | 486.2 | 484.9 |
| 50°    | 469.2 | 466.9 | 464.7 | 463.1 | 462.0 | 461.1 | 460.1 | 459.1 |
| 52.5°  | 442.1 | 440.2 | 438.2 | 436.5 | 435.3 | 434.0 | 432.8 | 431.6 |
| 55°    | 402.5 | 400.5 | 398.5 | 397.0 | 396.1 | 395.1 | 394.1 | 393.1 |
| 57.5°  | 362.6 | 360.7 | 358.8 | 357.4 | 356.5 | 355.5 | 354.6 | 353.6 |
| 60°    | 335.2 | 333.8 | 332.2 | 331.1 | 330.3 | 329.5 | 328.7 | 327.8 |
| 62.5°  | 308.5 | 307.1 | 305.8 | 304.7 | 303.9 | 303.1 | 302.3 | 301.4 |
| 65°    | 269.6 | 268.0 | 266.4 | 265.1 | 264.3 | 263.4 | 262.7 | 261.8 |
| 67.5°  | 229.5 | 228.0 | 226.4 | 225.5 | 225.3 | 225.1 | 224.8 | 224.6 |
| 70°    | 204.2 | 202.9 | 201.6 | 200.8 | 200.2 | 199.7 | 199.3 | 198.8 |
| 72.5°  | 178.9 | 177.9 | 176.8 | 176.1 | 175.6 | 175.1 | 174.7 | 174.1 |
| 75°    | 142.4 | 141.8 | 141.2 | 140.7 | 140.5 | 140.4 | 140.3 | 140.1 |
| 77.5°  | 107.8 | 107.6 | 107.4 | 107.2 | 106.7 | 106.3 | 105.8 | 105.5 |
| 80°    | 85.9  | 85.6  | 85.2  | 85.0  | 84.8  | 84.6  | 84.5  | 84.4  |
| 82.5°  | 66.2  | 66.0  | 65.8  | 65.6  | 65.5  | 65.3  | 65.1  | 64.9  |
| 85°    | 38.2  | 38.2  | 38.2  | 38.1  | 37.9  | 37.7  | 37.6  | 37.4  |
| 87.5°  | 20.1  | 20.5  | 20.7  | 21.0  | 21.1  | 21.2  | 21.3  | 21.4  |
| 90°    | 30.2  | 31.8  | 33.5  | 34.5  | 35.1  | 35.6  | 36.1  | 36.7  |
| 92.5°  | 29.2  | 30.8  | 32.4  | 33.3  | 33.5  | 33.6  | 33.6  | 33.7  |
| 95°    | 30.2  | 31.8  | 33.5  | 34.4  | 34.6  | 34.9  | 35.2  | 35.4  |
| 97.5°  | 32.6  | 32.8  | 32.9  | 33.2  | 33.5  | 33.6  | 33.9  | 34.2  |
| 100°   | 44.6  | 40.0  | 35.3  | 33.2  | 33.5  | 33.6  | 33.9  | 34.2  |
| 102.5° | 159.6 | 109.7 | 59.9  | 35.0  | 35.1  | 35.1  | 35.2  | 35.3  |
| 105°   | 386.3 | 388.8 | 391.2 | 387.6 | 377.8 | 368.0 | 358.2 | 348.5 |
| 107.5° | 478.0 | 479.2 | 480.3 | 481.5 | 482.5 | 483.5 | 484.6 | 485.6 |
| 110°   | 540.3 | 540.7 | 541.3 | 542.0 | 542.8 | 543.7 | 544.4 | 545.3 |





TEST NUMBER: P332767-830

CATALOG NUMBER: S124DIW-S575D1340U830-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 600.5  | 600.4  | 600.3  | 600.8  | 601.8  | 602.9  | 603.9  | 604.9  |
| 115°   | 690.6  | 691.2  | 691.6  | 691.9  | 691.9  | 691.9  | 691.9  | 691.9  |
| 117.5° | 781.2  | 781.1  | 781.0  | 780.9  | 780.8  | 780.7  | 780.6  | 780.4  |
| 120°   | 837.3  | 837.8  | 838.4  | 838.4  | 837.8  | 837.3  | 836.8  | 836.2  |
| 122.5° | 892.6  | 893.0  | 893.2  | 893.2  | 892.6  | 892.0  | 891.6  | 891.0  |
| 125°   | 969.9  | 970.7  | 971.5  | 972.0  | 972.3  | 972.6  | 972.9  | 973.2  |
| 127.5° | 1046.7 | 1046.5 | 1046.3 | 1046.1 | 1045.9 | 1045.7 | 1045.5 | 1045.3 |
| 130°   | 1093.4 | 1093.7 | 1094.0 | 1094.2 | 1094.2 | 1094.2 | 1094.2 | 1094.2 |
| 132.5° | 1139.4 | 1139.7 | 1140.0 | 1140.0 | 1139.8 | 1139.6 | 1139.3 | 1139.2 |
| 135°   | 1202.9 | 1203.3 | 1203.9 | 1204.5 | 1205.0 | 1205.5 | 1206.1 | 1206.6 |
| 137.5° | 1263.6 | 1264.1 | 1264.8 | 1265.0 | 1264.8 | 1264.7 | 1264.5 | 1264.3 |
| 140°   | 1301.2 | 1302.0 | 1302.8 | 1303.3 | 1303.6 | 1303.9 | 1304.2 | 1304.5 |
| 142.5° | 1336.0 | 1336.5 | 1337.2 | 1337.5 | 1337.6 | 1337.6 | 1337.7 | 1337.7 |
| 145°   | 1385.6 | 1385.9 | 1386.2 | 1386.7 | 1387.1 | 1387.7 | 1388.3 | 1388.8 |
| 147.5° | 1429.4 | 1429.6 | 1429.7 | 1430.0 | 1430.3 | 1430.6 | 1430.8 | 1431.1 |
| 150°   | 1457.3 | 1457.3 | 1457.3 | 1457.4 | 1457.6 | 1457.9 | 1458.2 | 1458.5 |
| 152.5° | 1481.6 | 1482.1 | 1482.4 | 1482.6 | 1482.4 | 1482.2 | 1482.1 | 1482.0 |
| 155°   | 1514.5 | 1515.5 | 1516.6 | 1516.7 | 1516.0 | 1515.1 | 1514.3 | 1513.5 |
| 157.5° | 1542.8 | 1544.2 | 1545.6 | 1545.6 | 1544.2 | 1542.8 | 1541.3 | 1539.9 |
| 160°   | 1560.8 | 1562.4 | 1564.1 | 1564.1 | 1562.4 | 1560.8 | 1559.2 | 1557.6 |
| 162.5° | 1575.5 | 1577.1 | 1578.7 | 1578.6 | 1576.8 | 1574.9 | 1573.0 | 1571.2 |
| 165°   | 1596.1 | 1598.3 | 1600.4 | 1600.2 | 1597.9 | 1595.4 | 1593.0 | 1590.5 |
| 167.5° | 1611.2 | 1613.5 | 1616.0 | 1615.8 | 1613.1 | 1610.3 | 1607.7 | 1605.0 |
| 170°   | 1620.5 | 1622.7 | 1624.8 | 1624.6 | 1621.9 | 1619.2 | 1616.5 | 1613.7 |
| 172.5° | 1626.4 | 1628.6 | 1630.8 | 1630.4 | 1627.4 | 1624.5 | 1621.6 | 1618.6 |
| 175°   | 1633.3 | 1635.8 | 1638.2 | 1637.8 | 1634.6 | 1631.3 | 1628.0 | 1624.8 |
| 177.5° | 1636.1 | 1637.8 | 1639.6 | 1639.1 | 1636.4 | 1633.9 | 1631.3 | 1628.6 |
| 180°   | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 |

(END OF REPORT)