

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: P332149-927

Luminaire Tested: **S123DIW-S560D1535U927-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332149-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S560D1535U927-4F0-1E-UDD-F1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6054.2 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

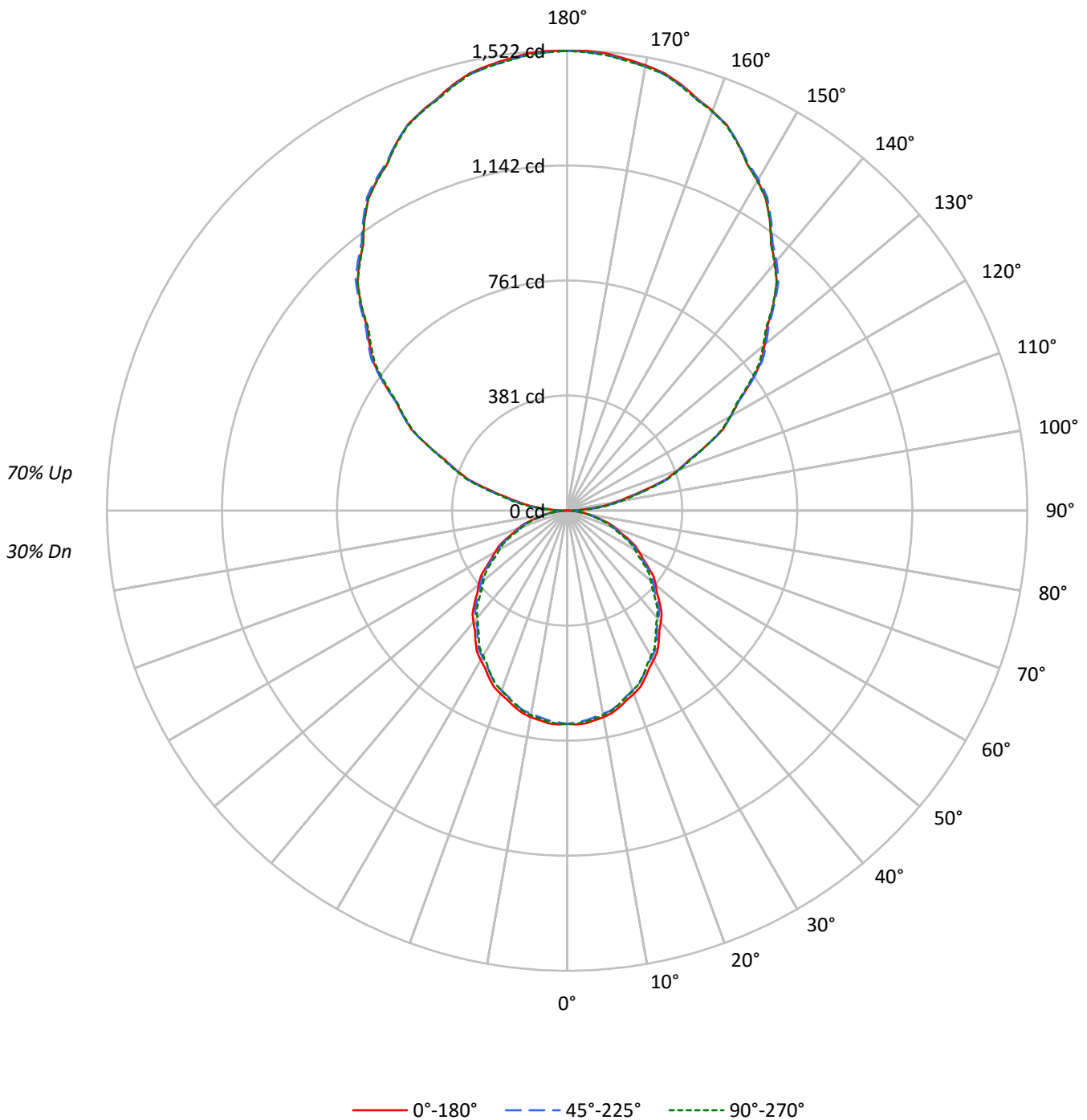
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P332149-927

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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   | 102 | 102 | 102 | 102 | 92 | 92 | 92 | 92 | 72 | 72 | 72 | 55 | 55 | 55 | 38 | 38 | 38 | 30 |
| 1   | 93  | 89  | 85  | 82  | 84 | 80 | 77 | 74 | 63 | 61 | 59 | 48 | 46 | 45 | 34 | 33 | 32 | 25 |
| 2   | 85  | 78  | 72  | 67  | 76 | 70 | 65 | 61 | 55 | 52 | 49 | 42 | 40 | 38 | 30 | 28 | 27 | 21 |
| 3   | 77  | 68  | 61  | 56  | 69 | 62 | 55 | 51 | 49 | 45 | 41 | 37 | 34 | 32 | 26 | 24 | 23 | 18 |
| 4   | 71  | 60  | 53  | 47  | 63 | 54 | 48 | 43 | 43 | 39 | 35 | 33 | 30 | 27 | 23 | 21 | 20 | 15 |
| 5   | 65  | 54  | 46  | 40  | 58 | 48 | 42 | 37 | 39 | 34 | 30 | 29 | 26 | 23 | 21 | 19 | 17 | 13 |
| 6   | 60  | 48  | 40  | 34  | 53 | 43 | 37 | 32 | 35 | 30 | 26 | 27 | 23 | 20 | 19 | 17 | 15 | 12 |
| 7   | 55  | 43  | 35  | 30  | 49 | 39 | 32 | 28 | 31 | 26 | 23 | 24 | 21 | 18 | 17 | 15 | 13 | 10 |
| 8   | 51  | 39  | 32  | 26  | 46 | 35 | 29 | 24 | 28 | 24 | 20 | 22 | 19 | 16 | 16 | 14 | 12 | 9  |
| 9   | 47  | 36  | 28  | 23  | 42 | 32 | 26 | 22 | 26 | 21 | 18 | 20 | 17 | 14 | 15 | 12 | 11 | 8  |
| 10  | 44  | 32  | 25  | 21  | 40 | 30 | 23 | 19 | 24 | 19 | 16 | 19 | 15 | 13 | 14 | 11 | 10 | 8  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7597 | 7597 | 7597 |
| 5°  | 7632 | 7527 | 7580 |
| 10° | 7581 | 7462 | 7508 |
| 15° | 7492 | 7377 | 7392 |
| 20° | 7389 | 7257 | 7263 |
| 25° | 7251 | 7114 | 7099 |
| 30° | 7097 | 6954 | 6901 |
| 35° | 6937 | 6786 | 6699 |
| 40° | 6770 | 6600 | 6497 |
| 45° | 6587 | 6428 | 6272 |
| 50° | 6402 | 6219 | 6047 |
| 55° | 6161 | 6001 | 5819 |
| 60° | 5918 | 5748 | 5565 |
| 65° | 5703 | 5471 | 5300 |
| 70° | 5385 | 5155 | 4925 |
| 75° | 4924 | 4745 | 4541 |
| 80° | 4438 | 4252 | 4215 |
| 85° | 3890 | 3742 | 3606 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.5   | 1.1       |
| 10°-20°   | 187.7  | 3.1       |
| 20°-30°   | 277.3  | 4.6       |
| 30°-40°   | 323.9  | 5.3       |
| 40°-50°   | 325.6  | 5.4       |
| 50°-60°   | 286.0  | 4.7       |
| 60°-70°   | 213.1  | 3.5       |
| 70°-80°   | 121.4  | 2.0       |
| 80°-90°   | 39.3   | 0.6       |
| 90°-100°  | 99.1   | 1.6       |
| 100°-110° | 296.5  | 4.9       |
| 110°-120° | 504.3  | 8.3       |
| 120°-130° | 663.4  | 11.0      |
| 130°-140° | 745.6  | 12.3      |
| 140°-150° | 732.9  | 12.1      |
| 150°-160° | 617.0  | 10.2      |
| 160°-170° | 410.7  | 6.8       |
| 170°-180° | 143.8  | 2.4       |
| 0°-30°    | 531.5  | 8.8       |
| 0°-40°    | 855.4  | 14.1      |
| 0°-60°    | 1467.0 | 24.2      |
| 0°-90°    | 1840.9 | 30.4      |
| 90°-120°  | 899.9  | 14.9      |
| 90°-150°  | 3041.8 | 50.2      |
| 90°-180°  | 4213.0 | 69.6      |
| 0°-180°   | 6054.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 706  | 706   | 706  | 706   | 706  |      |
| 5°   | 706  | 703   | 697  | 702   | 702  | 67   |
| 15°  | 672  | 670   | 662  | 666   | 663  | 189  |
| 25°  | 610  | 607   | 599  | 599   | 598  | 281  |
| 35°  | 528  | 524   | 516  | 513   | 510  | 330  |
| 45°  | 433  | 430   | 422  | 415   | 412  | 334  |
| 55°  | 328  | 327   | 320  | 313   | 310  | 294  |
| 65°  | 224  | 221   | 215  | 210   | 208  | 221  |
| 75°  | 118  | 116   | 114  | 111   | 109  | 127  |
| 85°  | 32   | 30    | 30   | 29    | 29   | 35   |
| 90°  | 1    | 13    | 29   | 33    | 36   | 6    |
| 95°  | 70   | 79    | 88   | 93    | 93   | 79   |
| 105° | 269  | 272   | 282  | 282   | 284  | 288  |
| 115° | 508  | 511   | 509  | 510   | 509  | 502  |
| 125° | 743  | 746   | 744  | 739   | 735  | 662  |
| 135° | 964  | 971   | 970  | 965   | 963  | 743  |
| 145° | 1170 | 1172  | 1175 | 1174  | 1170 | 730  |
| 155° | 1339 | 1339  | 1340 | 1344  | 1337 | 616  |
| 165° | 1459 | 1455  | 1455 | 1461  | 1454 | 411  |
| 175° | 1517 | 1513  | 1512 | 1519  | 1511 | 144  |
| 180° | 1521 | 1521  | 1521 | 1521  | 1521 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 705.8 | 705.8 | 705.8 | 705.8 | 705.8 | 705.8 | 705.8 | 705.8 | 705.8 | 705.8 | 705.8 |
| 2.5°   | 708.1 | 707.7 | 707.3 | 706.9 | 706.5 | 705.6 | 704.4 | 703.2 | 702.1 | 700.9 | 702.0 |
| 5°     | 706.3 | 705.7 | 705.0 | 704.3 | 703.6 | 702.6 | 701.1 | 699.6 | 698.2 | 696.6 | 698.0 |
| 7.5°   | 699.4 | 698.8 | 698.1 | 697.4 | 696.7 | 695.6 | 694.1 | 692.5 | 691.0 | 689.5 | 690.7 |
| 10°    | 693.6 | 692.9 | 692.3 | 691.6 | 690.9 | 689.7 | 687.9 | 686.2 | 684.4 | 682.7 | 683.9 |
| 12.5°  | 685.9 | 685.2 | 684.7 | 684.1 | 683.6 | 682.5 | 680.8 | 679.1 | 677.6 | 675.9 | 676.8 |
| 15°    | 672.3 | 671.8 | 671.3 | 670.7 | 670.2 | 669.1 | 667.3 | 665.6 | 663.8 | 662.0 | 663.1 |
| 17.5°  | 656.7 | 656.0 | 655.3 | 654.6 | 653.9 | 652.7 | 650.9 | 649.2 | 647.5 | 645.6 | 646.4 |
| 20°    | 645.1 | 644.3 | 643.4 | 642.6 | 641.8 | 640.6 | 638.8 | 637.1 | 635.3 | 633.5 | 634.1 |
| 22.5°  | 631.9 | 631.1 | 630.3 | 629.5 | 628.7 | 627.4 | 625.7 | 623.9 | 622.2 | 620.4 | 620.8 |
| 25°    | 610.5 | 609.7 | 608.9 | 608.1 | 607.2 | 605.9 | 604.2 | 602.5 | 600.7 | 599.0 | 599.0 |
| 27.5°  | 587.6 | 586.8 | 586.0 | 585.2 | 584.4 | 583.0 | 581.1 | 579.3 | 577.4 | 575.5 | 575.6 |
| 30°    | 571.0 | 570.4 | 569.7 | 569.0 | 568.3 | 567.0 | 565.1 | 563.2 | 561.4 | 559.5 | 559.5 |
| 32.5°  | 554.5 | 553.7 | 552.7 | 551.8 | 551.0 | 549.8 | 548.3 | 546.8 | 545.4 | 544.0 | 543.2 |
| 35°    | 527.9 | 527.1 | 526.3 | 525.5 | 524.7 | 523.4 | 521.7 | 519.9 | 518.2 | 516.4 | 515.6 |
| 37.5°  | 500.7 | 499.7 | 498.7 | 497.6 | 496.6 | 495.3 | 493.5 | 491.7 | 489.9 | 488.1 | 487.2 |
| 40°    | 481.8 | 481.0 | 480.2 | 479.4 | 478.6 | 477.2 | 475.3 | 473.5 | 471.6 | 469.7 | 468.6 |
| 42.5°  | 462.9 | 462.0 | 461.1 | 460.1 | 459.2 | 457.8 | 455.9 | 454.1 | 452.2 | 450.3 | 449.2 |
| 45°    | 432.7 | 432.1 | 431.6 | 431.0 | 430.5 | 429.4 | 427.6 | 425.9 | 424.1 | 422.3 | 420.7 |
| 47.5°  | 402.7 | 401.9 | 401.2 | 400.4 | 399.6 | 398.3 | 396.7 | 395.1 | 393.4 | 391.7 | 390.1 |
| 50°    | 382.3 | 381.6 | 381.0 | 380.2 | 379.6 | 378.4 | 376.6 | 374.9 | 373.1 | 371.4 | 369.9 |
| 52.5°  | 360.9 | 360.4 | 360.0 | 359.6 | 359.1 | 357.9 | 356.1 | 354.3 | 352.4 | 350.5 | 349.3 |
| 55°    | 328.3 | 328.1 | 328.0 | 327.9 | 327.7 | 326.8 | 325.0 | 323.3 | 321.5 | 319.8 | 318.3 |
| 57.5°  | 297.2 | 296.8 | 296.3 | 295.9 | 295.4 | 294.5 | 293.0 | 291.7 | 290.3 | 288.8 | 287.6 |
| 60°    | 274.9 | 274.7 | 274.6 | 274.5 | 274.3 | 273.5 | 271.9 | 270.2 | 268.6 | 267.0 | 265.8 |
| 62.5°  | 255.0 | 254.6 | 254.3 | 254.0 | 253.6 | 252.6 | 251.0 | 249.4 | 247.7 | 246.1 | 244.9 |
| 65°    | 223.9 | 223.2 | 222.6 | 221.9 | 221.3 | 220.2 | 218.9 | 217.5 | 216.2 | 214.8 | 213.7 |
| 67.5°  | 191.0 | 190.4 | 189.8 | 189.3 | 188.6 | 187.8 | 186.8 | 185.8 | 184.7 | 183.8 | 182.8 |
| 70°    | 171.1 | 170.3 | 169.5 | 168.7 | 167.9 | 167.1 | 166.3 | 165.5 | 164.6 | 163.8 | 162.9 |
| 72.5°  | 150.3 | 149.6 | 149.1 | 148.5 | 147.9 | 147.1 | 146.2 | 145.3 | 144.3 | 143.5 | 142.6 |
| 75°    | 118.4 | 117.8 | 117.2 | 116.7 | 116.2 | 115.7 | 115.3 | 114.9 | 114.5 | 114.1 | 113.4 |
| 77.5°  | 90.1  | 89.8  | 89.4  | 89.2  | 88.9  | 88.5  | 88.0  | 87.5  | 87.0  | 86.5  | 86.1  |
| 80°    | 71.6  | 71.2  | 70.8  | 70.4  | 69.9  | 69.6  | 69.4  | 69.1  | 68.8  | 68.6  | 68.4  |
| 82.5°  | 53.6  | 53.6  | 53.5  | 53.4  | 53.3  | 53.2  | 53.2  | 53.2  | 53.1  | 53.1  | 52.8  |
| 85°    | 31.5  | 31.3  | 31.1  | 30.7  | 30.5  | 30.3  | 30.3  | 30.3  | 30.3  | 30.3  | 30.1  |
| 87.5°  | 12.8  | 13.1  | 13.3  | 13.5  | 13.7  | 14.1  | 14.7  | 15.2  | 15.8  | 16.4  | 16.6  |
| 90°    | 1.2   | 3.9   | 6.5   | 9.2   | 11.8  | 14.9  | 18.3  | 21.8  | 25.2  | 28.7  | 29.7  |
| 92.5°  | 28.9  | 30.7  | 32.5  | 34.3  | 36.1  | 38.0  | 40.0  | 41.9  | 43.9  | 45.9  | 46.7  |
| 95°    | 70.5  | 72.3  | 74.2  | 76.0  | 78.0  | 79.9  | 82.0  | 84.1  | 86.3  | 88.4  | 89.4  |
| 97.5°  | 125.2 | 126.6 | 127.9 | 129.4 | 130.7 | 132.1 | 133.7 | 135.2 | 136.8 | 138.3 | 139.6 |
| 100°   | 162.5 | 164.1 | 165.6 | 167.2 | 168.8 | 170.3 | 171.6 | 172.9 | 174.3 | 175.6 | 176.4 |
| 102.5° | 205.5 | 206.4 | 207.4 | 208.3 | 209.3 | 210.6 | 212.4 | 214.1 | 215.9 | 217.6 | 218.5 |
| 105°   | 268.8 | 269.3 | 269.8 | 270.4 | 270.9 | 272.4 | 274.7 | 277.1 | 279.6 | 281.9 | 281.9 |
| 107.5° | 342.4 | 342.7 | 343.0 | 343.3 | 343.6 | 344.3 | 345.2 | 346.2 | 347.1 | 348.1 | 349.0 |
| 110°   | 388.2 | 388.8 | 389.3 | 389.8 | 390.4 | 390.9 | 391.4 | 392.0 | 392.4 | 393.0 | 394.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 436.0  | 436.3  | 436.7  | 437.0  | 437.3  | 437.5  | 437.6  | 437.7  | 437.8  | 437.9  | 439.2  |
| 115°   | 507.7  | 508.5  | 509.3  | 510.1  | 510.9  | 511.0  | 510.5  | 509.9  | 509.5  | 508.9  | 509.1  |
| 117.5° | 579.9  | 580.4  | 580.9  | 581.5  | 581.9  | 581.9  | 581.2  | 580.5  | 579.8  | 579.2  | 579.1  |
| 120°   | 624.8  | 626.4  | 628.0  | 629.5  | 631.1  | 631.3  | 629.9  | 628.6  | 627.2  | 626.0  | 625.7  |
| 122.5° | 671.6  | 672.7  | 673.9  | 675.1  | 676.3  | 676.5  | 675.8  | 675.1  | 674.5  | 673.8  | 673.0  |
| 125°   | 743.0  | 743.8  | 744.7  | 745.4  | 746.2  | 746.3  | 745.8  | 745.3  | 744.7  | 744.3  | 743.1  |
| 127.5° | 809.0  | 810.6  | 812.4  | 814.0  | 815.8  | 816.3  | 815.7  | 815.2  | 814.6  | 814.0  | 812.5  |
| 130°   | 852.9  | 855.1  | 857.1  | 859.3  | 861.4  | 862.1  | 861.3  | 860.5  | 859.7  | 858.9  | 857.9  |
| 132.5° | 896.9  | 899.0  | 901.1  | 903.2  | 905.4  | 906.2  | 905.5  | 905.0  | 904.4  | 903.8  | 902.5  |
| 135°   | 964.0  | 965.6  | 967.2  | 968.8  | 970.4  | 971.1  | 970.8  | 970.5  | 970.3  | 970.0  | 968.9  |
| 137.5° | 1026.1 | 1027.5 | 1028.8 | 1030.2 | 1031.4 | 1032.5 | 1033.2 | 1033.8 | 1034.5 | 1035.2 | 1034.1 |
| 140°   | 1069.1 | 1070.5 | 1071.8 | 1073.1 | 1074.4 | 1075.2 | 1075.5 | 1075.8 | 1076.0 | 1076.3 | 1076.0 |
| 142.5° | 1108.3 | 1109.6 | 1111.0 | 1112.3 | 1113.6 | 1114.5 | 1115.0 | 1115.5 | 1115.9 | 1116.4 | 1116.2 |
| 145°   | 1169.5 | 1170.1 | 1170.5 | 1171.1 | 1171.6 | 1172.3 | 1173.1 | 1173.9 | 1174.6 | 1175.4 | 1175.2 |
| 147.5° | 1223.0 | 1223.9 | 1224.9 | 1225.9 | 1226.9 | 1227.6 | 1228.4 | 1229.2 | 1229.9 | 1230.7 | 1230.7 |
| 150°   | 1260.3 | 1260.8 | 1261.3 | 1261.9 | 1262.4 | 1262.9 | 1263.5 | 1264.0 | 1264.5 | 1265.0 | 1265.0 |
| 152.5° | 1290.9 | 1291.6 | 1292.4 | 1293.1 | 1293.8 | 1294.3 | 1294.7 | 1295.0 | 1295.3 | 1295.6 | 1296.1 |
| 155°   | 1339.1 | 1339.1 | 1339.1 | 1339.1 | 1339.1 | 1339.3 | 1339.5 | 1339.7 | 1340.1 | 1340.3 | 1341.4 |
| 157.5° | 1380.2 | 1379.9 | 1379.6 | 1379.3 | 1379.0 | 1378.9 | 1379.1 | 1379.3 | 1379.5 | 1379.7 | 1380.9 |
| 160°   | 1406.0 | 1405.5 | 1404.9 | 1404.4 | 1403.9 | 1403.6 | 1403.6 | 1403.6 | 1403.6 | 1403.6 | 1404.9 |
| 162.5° | 1428.9 | 1428.2 | 1427.4 | 1426.7 | 1426.0 | 1425.7 | 1425.9 | 1426.2 | 1426.3 | 1426.6 | 1427.9 |
| 165°   | 1458.6 | 1457.8 | 1457.0 | 1456.2 | 1455.4 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1456.6 |
| 167.5° | 1482.3 | 1481.1 | 1480.1 | 1479.0 | 1478.0 | 1477.6 | 1477.7 | 1478.0 | 1478.2 | 1478.4 | 1480.0 |
| 170°   | 1495.6 | 1494.5 | 1493.5 | 1492.4 | 1491.4 | 1490.8 | 1490.8 | 1490.8 | 1490.8 | 1490.8 | 1492.7 |
| 172.5° | 1506.1 | 1505.1 | 1504.0 | 1502.9 | 1501.9 | 1501.3 | 1501.3 | 1501.3 | 1501.3 | 1501.3 | 1503.0 |
| 175°   | 1517.1 | 1516.1 | 1515.0 | 1513.9 | 1512.8 | 1512.4 | 1512.4 | 1512.4 | 1512.4 | 1512.4 | 1513.9 |
| 177.5° | 1521.6 | 1520.8 | 1520.0 | 1519.1 | 1518.2 | 1517.8 | 1517.8 | 1517.8 | 1517.8 | 1517.8 | 1519.1 |
| 180°   | 1520.7 | 1520.7 | 1520.7 | 1520.7 | 1520.7 | 1520.7 | 1520.7 | 1520.7 | 1520.7 | 1520.7 | 1520.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 705.8 | 705.8 | 705.8 | 705.8 | 705.8 | 705.8 | 705.8 | 705.8 |
| 2.5°   | 703.1 | 704.1 | 705.2 | 705.7 | 705.6 | 705.4 | 705.4 | 705.3 |
| 5°     | 699.3 | 700.7 | 702.0 | 702.6 | 702.3 | 702.0 | 701.8 | 701.5 |
| 7.5°   | 691.9 | 693.1 | 694.3 | 694.8 | 694.7 | 694.5 | 694.3 | 694.2 |
| 10°    | 685.1 | 686.3 | 687.5 | 688.0 | 687.8 | 687.5 | 687.2 | 686.9 |
| 12.5°  | 677.6 | 678.6 | 679.5 | 679.8 | 679.6 | 679.5 | 679.3 | 679.1 |
| 15°    | 664.2 | 665.3 | 666.4 | 666.5 | 665.7 | 664.9 | 664.1 | 663.3 |
| 17.5°  | 647.2 | 647.9 | 648.7 | 648.9 | 648.6 | 648.3 | 648.0 | 647.7 |
| 20°    | 634.6 | 635.2 | 635.6 | 635.7 | 635.3 | 634.9 | 634.5 | 634.1 |
| 22.5°  | 621.3 | 621.7 | 622.2 | 622.1 | 621.6 | 621.1 | 620.6 | 620.0 |
| 25°    | 599.2 | 599.4 | 599.4 | 599.4 | 599.0 | 598.6 | 598.1 | 597.7 |
| 27.5°  | 575.8 | 575.8 | 575.9 | 575.8 | 575.2 | 574.7 | 574.2 | 573.7 |
| 30°    | 559.5 | 559.5 | 559.5 | 559.0 | 558.1 | 557.1 | 556.2 | 555.2 |
| 32.5°  | 542.5 | 541.7 | 540.9 | 540.3 | 539.8 | 539.3 | 538.8 | 538.3 |
| 35°    | 514.8 | 514.0 | 513.2 | 512.5 | 511.7 | 511.1 | 510.4 | 509.8 |
| 37.5°  | 486.2 | 485.2 | 484.3 | 483.5 | 483.2 | 482.7 | 482.3 | 481.8 |
| 40°    | 467.5 | 466.4 | 465.4 | 464.5 | 464.0 | 463.5 | 463.0 | 462.4 |
| 42.5°  | 448.1 | 447.0 | 445.9 | 445.1 | 444.6 | 444.1 | 443.5 | 443.0 |
| 45°    | 419.1 | 417.5 | 415.9 | 414.7 | 414.1 | 413.4 | 412.7 | 412.0 |
| 47.5°  | 388.6 | 387.0 | 385.4 | 384.3 | 383.7 | 383.1 | 382.5 | 381.9 |
| 50°    | 368.4 | 366.9 | 365.4 | 364.3 | 363.5 | 362.7 | 361.9 | 361.1 |
| 52.5°  | 348.0 | 346.7 | 345.5 | 344.4 | 343.6 | 342.8 | 342.0 | 341.2 |
| 55°    | 316.8 | 315.4 | 313.9 | 312.8 | 312.1 | 311.4 | 310.8 | 310.1 |
| 57.5°  | 286.2 | 284.9 | 283.6 | 282.5 | 281.7 | 281.0 | 280.2 | 279.4 |
| 60°    | 264.6 | 263.4 | 262.1 | 261.2 | 260.5 | 259.8 | 259.2 | 258.5 |
| 62.5°  | 243.7 | 242.5 | 241.3 | 240.4 | 240.0 | 239.6 | 239.1 | 238.6 |
| 65°    | 212.6 | 211.6 | 210.5 | 209.8 | 209.4 | 209.0 | 208.6 | 208.1 |
| 67.5°  | 181.9 | 180.9 | 180.0 | 179.2 | 178.6 | 178.1 | 177.5 | 177.0 |
| 70°    | 161.9 | 161.1 | 160.1 | 159.2 | 158.6 | 157.9 | 157.2 | 156.5 |
| 72.5°  | 141.8 | 140.9 | 140.1 | 139.5 | 139.2 | 138.8 | 138.5 | 138.1 |
| 75°    | 112.7 | 112.1 | 111.4 | 110.8 | 110.4 | 110.0 | 109.6 | 109.2 |
| 77.5°  | 85.6  | 85.2  | 84.7  | 84.4  | 84.4  | 84.4  | 84.4  | 84.4  |
| 80°    | 68.3  | 68.1  | 68.0  | 68.0  | 68.0  | 68.0  | 68.0  | 68.0  |
| 82.5°  | 52.5  | 52.3  | 52.0  | 51.9  | 51.8  | 51.7  | 51.6  | 51.5  |
| 85°    | 29.8  | 29.5  | 29.2  | 29.2  | 29.2  | 29.2  | 29.2  | 29.2  |
| 87.5°  | 16.6  | 16.7  | 16.8  | 17.0  | 17.0  | 17.1  | 17.3  | 17.3  |
| 90°    | 30.8  | 31.8  | 33.0  | 33.7  | 34.2  | 34.8  | 35.3  | 35.8  |
| 92.5°  | 47.5  | 48.4  | 49.3  | 49.5  | 49.2  | 48.9  | 48.6  | 48.2  |
| 95°    | 90.5  | 91.6  | 92.6  | 93.2  | 93.2  | 93.2  | 93.2  | 93.2  |
| 97.5°  | 140.8 | 142.0 | 143.2 | 143.8 | 143.7 | 143.5 | 143.5 | 143.4 |
| 100°   | 177.2 | 178.0 | 178.8 | 179.4 | 180.0 | 180.5 | 181.0 | 181.6 |
| 102.5° | 219.3 | 220.1 | 220.9 | 221.2 | 221.1 | 220.9 | 220.9 | 220.8 |
| 105°   | 281.9 | 281.9 | 281.9 | 282.2 | 282.7 | 283.3 | 283.8 | 284.3 |
| 107.5° | 349.8 | 350.6 | 351.5 | 351.7 | 351.4 | 351.1 | 350.8 | 350.5 |
| 110°   | 395.1 | 396.2 | 397.3 | 397.5 | 397.0 | 396.5 | 395.9 | 395.4 |





TEST NUMBER: P332149-927

CATALOG NUMBER: S123DIW-S560D1535U927-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 440.5  | 441.7  | 443.0  | 443.6  | 443.5  | 443.4  | 443.3  | 443.1  |
| 115°   | 509.5  | 509.7  | 509.9  | 509.9  | 509.7  | 509.5  | 509.1  | 508.9  |
| 117.5° | 579.0  | 579.0  | 578.9  | 578.5  | 577.7  | 577.0  | 576.3  | 575.5  |
| 120°   | 625.4  | 625.2  | 624.9  | 624.5  | 624.0  | 623.4  | 622.9  | 622.3  |
| 122.5° | 672.3  | 671.7  | 671.0  | 670.3  | 669.6  | 668.8  | 668.0  | 667.3  |
| 125°   | 742.1  | 741.0  | 740.0  | 738.9  | 737.8  | 736.8  | 735.7  | 734.7  |
| 127.5° | 811.0  | 809.5  | 808.0  | 806.7  | 805.5  | 804.2  | 803.0  | 801.8  |
| 130°   | 856.7  | 855.7  | 854.7  | 853.2  | 851.4  | 849.5  | 847.6  | 845.7  |
| 132.5° | 901.3  | 900.0  | 898.7  | 897.4  | 896.0  | 894.5  | 893.0  | 891.6  |
| 135°   | 967.9  | 966.8  | 965.7  | 965.0  | 964.4  | 963.8  | 963.4  | 962.8  |
| 137.5° | 1033.0 | 1031.9 | 1030.8 | 1029.7 | 1028.6 | 1027.7 | 1026.7 | 1025.6 |
| 140°   | 1075.8 | 1075.5 | 1075.2 | 1074.2 | 1072.3 | 1070.5 | 1068.6 | 1066.8 |
| 142.5° | 1115.9 | 1115.6 | 1115.4 | 1114.5 | 1113.1 | 1111.7 | 1110.2 | 1108.8 |
| 145°   | 1174.9 | 1174.6 | 1174.4 | 1173.7 | 1172.7 | 1171.6 | 1170.5 | 1169.5 |
| 147.5° | 1230.7 | 1230.7 | 1230.7 | 1229.9 | 1228.3 | 1226.7 | 1225.0 | 1223.4 |
| 150°   | 1265.0 | 1265.0 | 1265.0 | 1264.2 | 1262.7 | 1261.1 | 1259.5 | 1257.9 |
| 152.5° | 1296.5 | 1296.9 | 1297.4 | 1296.9 | 1295.5 | 1294.1 | 1292.7 | 1291.3 |
| 155°   | 1342.4 | 1343.5 | 1344.6 | 1344.2 | 1342.3 | 1340.5 | 1338.6 | 1336.7 |
| 157.5° | 1382.0 | 1383.1 | 1384.2 | 1384.0 | 1382.5 | 1381.0 | 1379.5 | 1378.1 |
| 160°   | 1406.3 | 1407.6 | 1408.9 | 1409.1 | 1408.0 | 1406.9 | 1405.9 | 1404.8 |
| 162.5° | 1429.2 | 1430.5 | 1431.9 | 1431.7 | 1430.0 | 1428.3 | 1426.6 | 1424.9 |
| 165°   | 1458.2 | 1459.8 | 1461.3 | 1461.3 | 1459.4 | 1457.5 | 1455.6 | 1453.8 |
| 167.5° | 1481.7 | 1483.4 | 1484.9 | 1484.9 | 1483.4 | 1481.7 | 1480.0 | 1478.4 |
| 170°   | 1494.5 | 1496.4 | 1498.3 | 1498.3 | 1496.4 | 1494.5 | 1492.7 | 1490.8 |
| 172.5° | 1504.6 | 1506.3 | 1507.9 | 1507.8 | 1505.9 | 1504.1 | 1502.2 | 1500.4 |
| 175°   | 1515.5 | 1517.1 | 1518.7 | 1518.5 | 1516.7 | 1514.8 | 1513.0 | 1511.2 |
| 177.5° | 1520.4 | 1521.6 | 1522.9 | 1522.8 | 1521.3 | 1519.8 | 1518.4 | 1516.9 |
| 180°   | 1520.7 | 1520.7 | 1520.7 | 1520.7 | 1520.7 | 1520.7 | 1520.7 | 1520.7 |

(END OF REPORT)