

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: P332142-927

Luminaire Tested: **S123DIW-S560D1320U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332142-927  
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-S560D1320U927-4F0-1E-UDD-F  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1320 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6021.3 lumens  
Efficiency: N/A  
Efficacy: 111.9 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

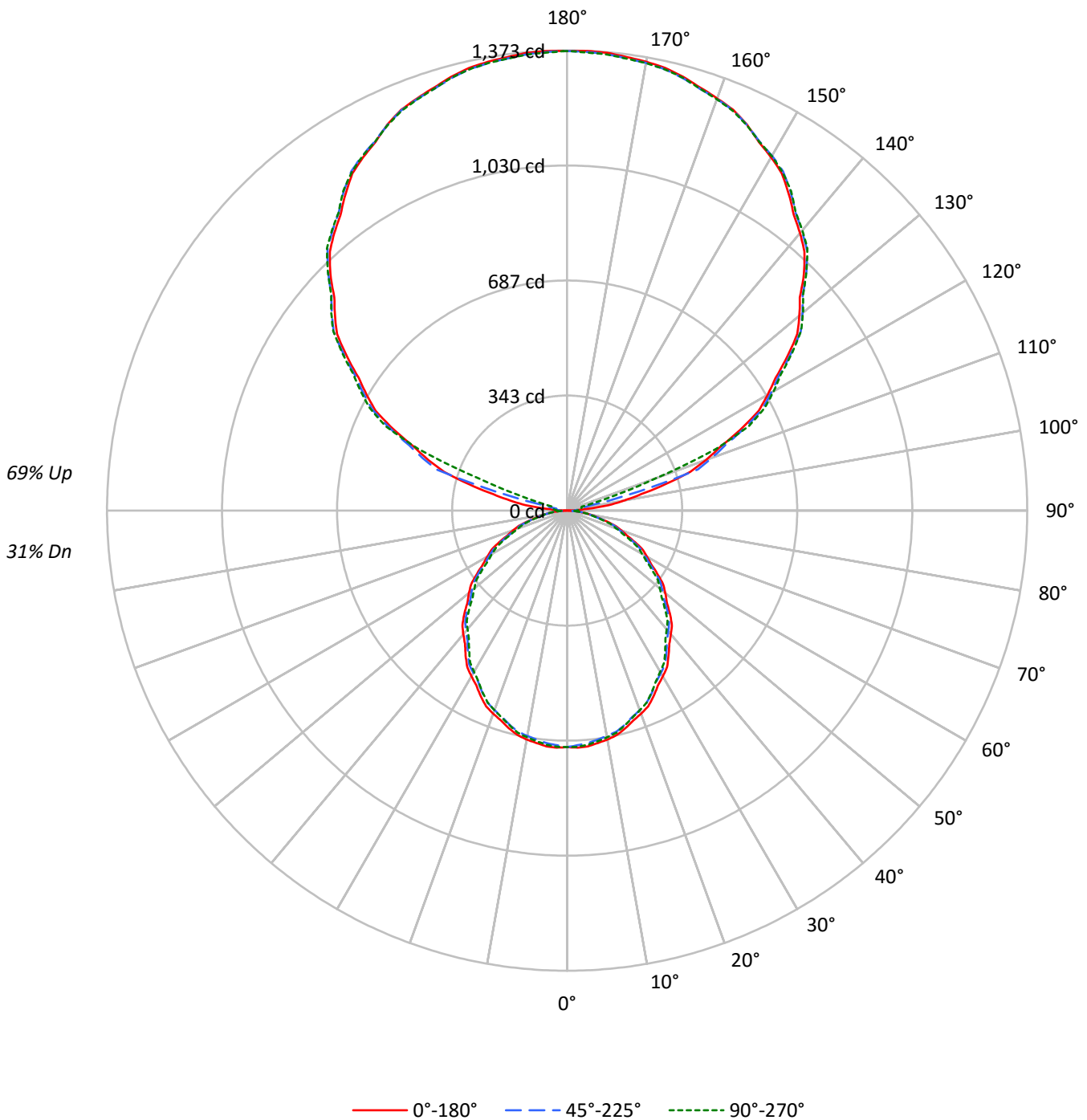
Input Watts (W): 53.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P332142-927

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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   | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 38 | 38 | 38 | 31 |
| 1   | 93  | 89  | 85  | 82  | 84 | 80 | 77 | 74 | 63 | 61 | 59 | 48 | 47 | 45 | 34 | 33 | 32 | 26 |
| 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 | 56 | 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 | 16 |
| 5   | 65  | 54  | 46  | 40  | 58 | 48 | 42 | 37 | 39 | 34 | 30 | 30 | 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 | 29 | 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  | 5.4       |
| 40°-50°   | 325.6  | 5.4       |
| 50°-60°   | 286.0  | 4.8       |
| 60°-70°   | 213.1  | 3.5       |
| 70°-80°   | 121.4  | 2.0       |
| 80°-90°   | 38.7   | 0.6       |
| 90°-100°  | 49.8   | 0.8       |
| 100°-110° | 237.6  | 3.9       |
| 110°-120° | 570.6  | 9.5       |
| 120°-130° | 726.7  | 12.1      |
| 130°-140° | 776.4  | 12.9      |
| 140°-150° | 726.0  | 12.1      |
| 150°-160° | 585.6  | 9.7       |
| 160°-170° | 378.0  | 6.3       |
| 170°-180° | 130.3  | 2.2       |
| 0°-30°    | 531.5  | 8.8       |
| 0°-40°    | 855.4  | 14.2      |
| 0°-60°    | 1467.0 | 24.4      |
| 0°-90°    | 1840.2 | 30.6      |
| 90°-120°  | 858.1  | 14.3      |
| 90°-150°  | 3087.2 | 51.3      |
| 90°-180°  | 4181.0 | 69.4      |
| 0°-180°   | 6021.3 | 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    | 11    | 24   | 28    | 31   | 5    |
| 95°  | 62   | 23    | 32   | 38    | 39   | 77   |
| 105° | 304  | 309   | 223  | 53    | 45   | 322  |
| 115° | 569  | 576   | 585  | 594   | 599  | 562  |
| 125° | 803  | 811   | 815  | 817   | 819  | 717  |
| 135° | 999  | 1005  | 1010 | 1012  | 1010 | 769  |
| 145° | 1153 | 1160  | 1162 | 1164  | 1164 | 722  |
| 155° | 1270 | 1268  | 1269 | 1274  | 1268 | 585  |
| 165° | 1340 | 1336  | 1335 | 1343  | 1336 | 378  |
| 175° | 1371 | 1366  | 1367 | 1373  | 1366 | 130  |
| 180° | 1371 | 1371  | 1371 | 1371  | 1371 |      |



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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  | 13.0  | 13.1  | 13.2  | 13.3  | 13.6  | 14.1  | 14.6  | 15.1  | 15.6  | 15.6  |
| 90°    | 1.0   | 3.2   | 5.5   | 7.8   | 10.1  | 12.7  | 15.6  | 18.5  | 21.5  | 24.5  | 25.3  |
| 92.5°  | 18.9  | 18.3  | 17.7  | 17.0  | 16.4  | 17.2  | 19.4  | 21.6  | 23.8  | 26.1  | 27.5  |
| 95°    | 62.1  | 52.8  | 43.6  | 34.3  | 25.0  | 21.6  | 24.1  | 26.6  | 29.1  | 31.6  | 33.2  |
| 97.5°  | 124.8 | 120.7 | 116.5 | 112.4 | 108.2 | 98.0  | 81.7  | 65.4  | 49.1  | 32.8  | 34.6  |
| 100°   | 172.1 | 176.7 | 181.2 | 185.7 | 190.3 | 174.8 | 139.6 | 104.3 | 68.9  | 33.6  | 35.4  |
| 102.5° | 225.9 | 229.2 | 232.4 | 235.7 | 239.0 | 221.3 | 182.8 | 144.2 | 105.6 | 67.0  | 61.4  |
| 105°   | 303.6 | 306.0 | 308.6 | 311.0 | 313.5 | 304.6 | 284.2 | 263.8 | 243.4 | 223.1 | 183.0 |
| 107.5° | 385.5 | 387.5 | 389.4 | 391.4 | 393.4 | 396.0 | 399.3 | 402.4 | 405.7 | 408.8 | 379.5 |
| 110°   | 440.1 | 441.9 | 443.6 | 445.4 | 447.3 | 449.4 | 451.9 | 454.4 | 456.9 | 459.4 | 451.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 492.2  | 493.8  | 495.4  | 497.1  | 498.7  | 500.7  | 503.3  | 505.7  | 508.3  | 510.7  | 510.9  |
| 115°   | 569.4  | 570.8  | 572.1  | 573.5  | 574.8  | 576.6  | 578.5  | 580.6  | 582.7  | 584.7  | 586.9  |
| 117.5° | 644.2  | 645.9  | 647.5  | 649.2  | 650.9  | 652.2  | 653.2  | 654.3  | 655.4  | 656.4  | 658.2  |
| 120°   | 690.6  | 692.7  | 694.7  | 696.7  | 698.8  | 700.1  | 700.8  | 701.5  | 702.2  | 702.8  | 704.6  |
| 122.5° | 737.9  | 739.6  | 741.2  | 742.9  | 744.6  | 745.8  | 746.7  | 747.6  | 748.5  | 749.3  | 750.6  |
| 125°   | 802.6  | 804.5  | 806.3  | 808.1  | 809.9  | 811.3  | 812.1  | 813.1  | 814.0  | 814.9  | 815.3  |
| 127.5° | 865.4  | 867.2  | 869.0  | 870.8  | 872.7  | 874.1  | 875.2  | 876.3  | 877.3  | 878.5  | 879.2  |
| 130°   | 904.5  | 906.3  | 908.2  | 910.0  | 911.8  | 913.1  | 914.0  | 915.0  | 915.8  | 916.7  | 917.7  |
| 132.5° | 942.0  | 943.8  | 945.6  | 947.5  | 949.3  | 950.5  | 951.3  | 952.0  | 952.7  | 953.4  | 954.3  |
| 135°   | 999.3  | 1000.6 | 1002.0 | 1003.3 | 1004.7 | 1005.8 | 1006.7 | 1007.7 | 1008.5 | 1009.5 | 1010.1 |
| 137.5° | 1048.1 | 1049.9 | 1051.6 | 1053.3 | 1055.0 | 1056.1 | 1056.6 | 1057.2 | 1057.6 | 1058.1 | 1059.2 |
| 140°   | 1080.8 | 1082.1 | 1083.5 | 1084.8 | 1086.2 | 1087.2 | 1087.9 | 1088.5 | 1089.3 | 1089.9 | 1090.8 |
| 142.5° | 1110.9 | 1112.2 | 1113.6 | 1115.0 | 1116.3 | 1117.4 | 1118.0 | 1118.7 | 1119.4 | 1120.1 | 1120.8 |
| 145°   | 1153.1 | 1154.7 | 1156.3 | 1157.9 | 1159.4 | 1160.4 | 1160.9 | 1161.3 | 1161.8 | 1162.2 | 1162.7 |
| 147.5° | 1192.8 | 1193.8 | 1194.8 | 1195.9 | 1197.0 | 1197.7 | 1198.2 | 1198.6 | 1199.0 | 1199.5 | 1200.0 |
| 150°   | 1217.3 | 1217.9 | 1218.6 | 1219.2 | 1220.0 | 1220.5 | 1221.0 | 1221.4 | 1221.9 | 1222.3 | 1222.8 |
| 152.5° | 1239.2 | 1239.5 | 1239.8 | 1240.2 | 1240.5 | 1240.8 | 1241.1 | 1241.3 | 1241.6 | 1241.9 | 1242.7 |
| 155°   | 1270.2 | 1269.8 | 1269.3 | 1268.8 | 1268.4 | 1268.3 | 1268.5 | 1268.8 | 1269.0 | 1269.2 | 1270.3 |
| 157.5° | 1294.3 | 1294.2 | 1294.2 | 1294.1 | 1294.0 | 1294.0 | 1293.7 | 1293.5 | 1293.2 | 1293.0 | 1294.3 |
| 160°   | 1308.9 | 1308.7 | 1308.4 | 1308.2 | 1308.0 | 1307.8 | 1307.6 | 1307.3 | 1307.1 | 1306.9 | 1308.2 |
| 162.5° | 1322.8 | 1322.2 | 1321.6 | 1321.0 | 1320.4 | 1320.0 | 1319.8 | 1319.5 | 1319.3 | 1319.1 | 1320.6 |
| 165°   | 1339.5 | 1338.8 | 1338.1 | 1337.4 | 1336.7 | 1336.3 | 1336.1 | 1335.9 | 1335.6 | 1335.4 | 1337.2 |
| 167.5° | 1352.5 | 1351.6 | 1350.7 | 1349.8 | 1348.8 | 1348.5 | 1348.5 | 1348.5 | 1348.5 | 1348.5 | 1350.3 |
| 170°   | 1359.9 | 1358.9 | 1358.0 | 1357.2 | 1356.2 | 1355.7 | 1355.7 | 1355.7 | 1355.7 | 1355.7 | 1357.6 |
| 172.5° | 1364.8 | 1363.7 | 1362.6 | 1361.4 | 1360.4 | 1359.9 | 1360.1 | 1360.3 | 1360.5 | 1360.7 | 1362.5 |
| 175°   | 1371.0 | 1369.9 | 1368.8 | 1367.6 | 1366.5 | 1366.0 | 1366.3 | 1366.5 | 1366.8 | 1367.0 | 1368.6 |
| 177.5° | 1372.7 | 1371.7 | 1370.9 | 1370.0 | 1369.0 | 1368.7 | 1368.9 | 1369.0 | 1369.2 | 1369.4 | 1370.9 |
| 180°   | 1371.0 | 1371.0 | 1371.0 | 1371.0 | 1371.0 | 1371.0 | 1371.0 | 1371.0 | 1371.0 | 1371.0 | 1371.0 |



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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°  | 15.7  | 15.8  | 15.8  | 15.9  | 16.0  | 16.2  | 16.2  | 16.3  |
| 90°    | 26.2  | 27.2  | 28.0  | 28.8  | 29.2  | 29.6  | 30.1  | 30.6  |
| 92.5°  | 29.0  | 30.4  | 31.8  | 32.7  | 33.0  | 33.3  | 33.5  | 33.8  |
| 95°    | 34.8  | 36.4  | 37.9  | 38.7  | 38.7  | 38.7  | 38.7  | 38.7  |
| 97.5°  | 36.4  | 38.3  | 40.0  | 41.0  | 41.3  | 41.5  | 41.7  | 42.0  |
| 100°   | 37.2  | 39.1  | 40.9  | 41.9  | 42.1  | 42.3  | 42.5  | 42.8  |
| 102.5° | 55.8  | 50.1  | 44.6  | 42.0  | 42.4  | 42.8  | 43.2  | 43.6  |
| 105°   | 142.9 | 102.9 | 62.8  | 43.0  | 43.5  | 43.9  | 44.4  | 44.8  |
| 107.5° | 350.1 | 320.8 | 291.4 | 261.6 | 231.4 | 201.1 | 171.0 | 140.8 |
| 110°   | 444.4 | 437.0 | 429.5 | 409.6 | 377.2 | 344.8 | 312.5 | 280.1 |





TEST NUMBER: P332142-927

CATALOG NUMBER: S123DIW-S560D1320U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 511.0  | 511.1  | 511.3  | 507.9  | 501.1  | 494.2  | 487.4  | 480.6  |
| 115°   | 589.2  | 591.4  | 593.7  | 595.3  | 596.2  | 597.1  | 598.0  | 599.0  |
| 117.5° | 660.0  | 661.8  | 663.6  | 664.6  | 664.8  | 665.0  | 665.2  | 665.4  |
| 120°   | 706.5  | 708.3  | 710.1  | 711.0  | 711.0  | 711.0  | 711.0  | 711.0  |
| 122.5° | 751.9  | 753.1  | 754.4  | 755.1  | 755.3  | 755.4  | 755.7  | 755.8  |
| 125°   | 815.8  | 816.3  | 816.7  | 817.1  | 817.6  | 818.1  | 818.5  | 819.0  |
| 127.5° | 879.9  | 880.6  | 881.4  | 881.5  | 881.1  | 880.6  | 880.1  | 879.6  |
| 130°   | 918.5  | 919.5  | 920.4  | 920.6  | 920.1  | 919.7  | 919.2  | 918.8  |
| 132.5° | 955.2  | 956.2  | 957.0  | 957.2  | 956.6  | 955.9  | 955.3  | 954.7  |
| 135°   | 1010.8 | 1011.5 | 1012.2 | 1012.2 | 1011.5 | 1010.8 | 1010.1 | 1009.5 |
| 137.5° | 1060.3 | 1061.4 | 1062.5 | 1062.8 | 1062.3 | 1061.9 | 1061.4 | 1061.0 |
| 140°   | 1091.7 | 1092.7 | 1093.5 | 1093.8 | 1093.3 | 1092.8 | 1092.4 | 1091.9 |
| 142.5° | 1121.5 | 1122.2 | 1123.0 | 1123.0 | 1122.4 | 1121.7 | 1121.1 | 1120.5 |
| 145°   | 1163.2 | 1163.6 | 1164.0 | 1164.3 | 1164.3 | 1164.3 | 1164.3 | 1164.3 |
| 147.5° | 1200.4 | 1200.9 | 1201.3 | 1201.0 | 1200.0 | 1199.0 | 1197.9 | 1196.8 |
| 150°   | 1223.2 | 1223.7 | 1224.2 | 1224.0 | 1223.4 | 1222.7 | 1222.0 | 1221.3 |
| 152.5° | 1243.5 | 1244.4 | 1245.2 | 1245.1 | 1244.0 | 1242.9 | 1241.9 | 1240.9 |
| 155°   | 1271.5 | 1272.6 | 1273.7 | 1273.6 | 1272.2 | 1270.9 | 1269.6 | 1268.2 |
| 157.5° | 1295.8 | 1297.1 | 1298.5 | 1298.2 | 1296.5 | 1294.7 | 1292.9 | 1291.2 |
| 160°   | 1309.6 | 1311.0 | 1312.3 | 1312.2 | 1310.6 | 1309.0 | 1307.4 | 1305.8 |
| 162.5° | 1322.2 | 1323.7 | 1325.2 | 1325.3 | 1323.9 | 1322.5 | 1321.1 | 1319.7 |
| 165°   | 1339.0 | 1340.8 | 1342.7 | 1342.7 | 1341.2 | 1339.6 | 1338.0 | 1336.4 |
| 167.5° | 1352.1 | 1353.8 | 1355.7 | 1355.7 | 1353.8 | 1352.1 | 1350.3 | 1348.5 |
| 170°   | 1359.4 | 1361.2 | 1363.0 | 1363.0 | 1361.2 | 1359.4 | 1357.6 | 1355.7 |
| 172.5° | 1364.3 | 1366.1 | 1367.9 | 1367.8 | 1365.8 | 1363.8 | 1361.8 | 1359.9 |
| 175°   | 1370.2 | 1371.7 | 1373.3 | 1373.2 | 1371.4 | 1369.6 | 1367.8 | 1366.0 |
| 177.5° | 1372.3 | 1373.8 | 1375.2 | 1375.1 | 1373.2 | 1371.4 | 1369.6 | 1367.8 |
| 180°   | 1371.0 | 1371.0 | 1371.0 | 1371.0 | 1371.0 | 1371.0 | 1371.0 | 1371.0 |

(END OF REPORT)