

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: P332141

Luminaire Tested: **S123DIW-S560D1320U835-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332141  
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-S560D1320U835-4F0-1E-UDD-D1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

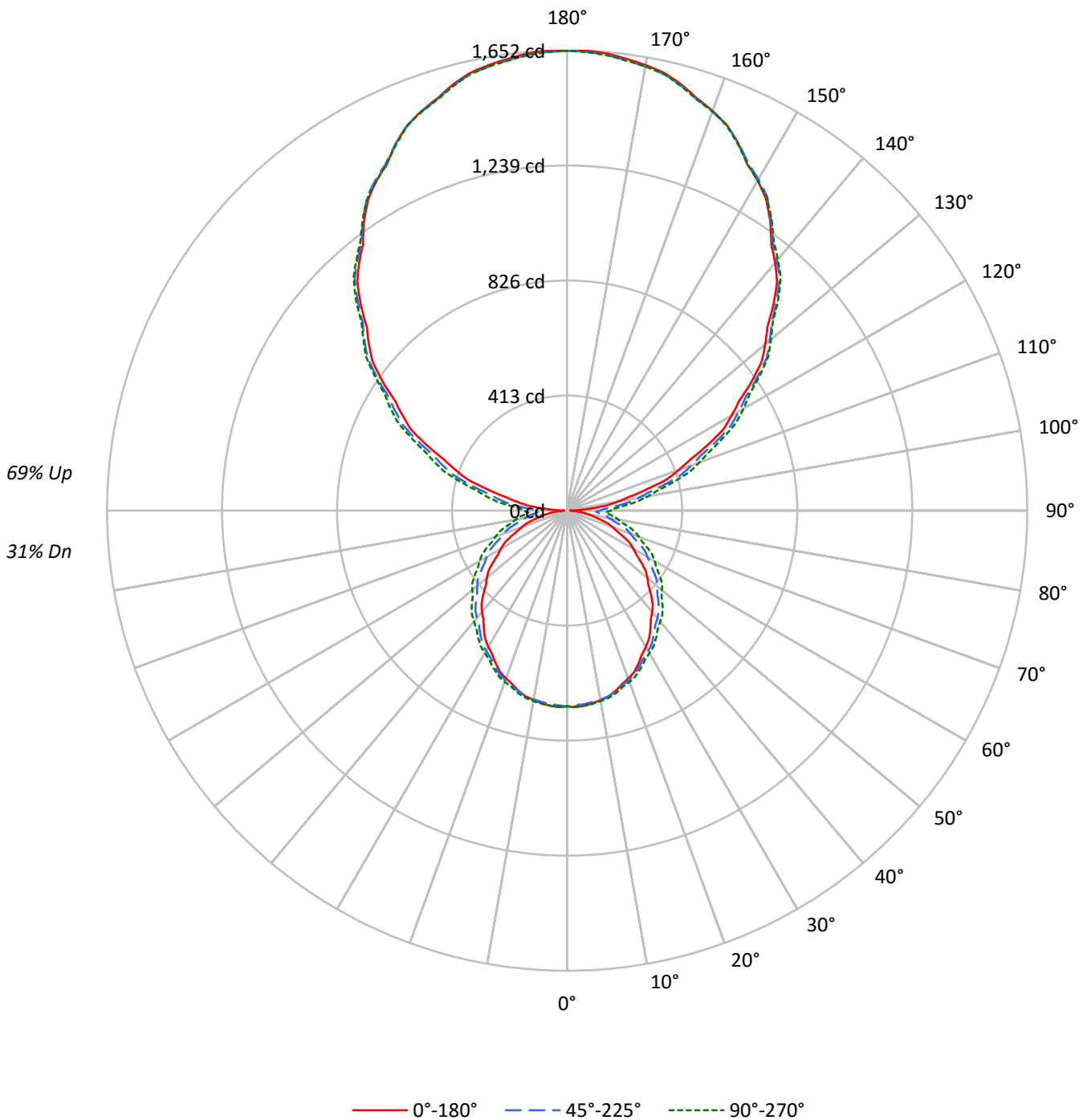
Lumens per Lamp: N/A  
Luminaire Lumens: 6942.4 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 53.8  
Input Voltage (V): 120  
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





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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 | 39 | 39 | 39 | 31 |
| 1   | 93  | 88  | 84  | 81  | 83 | 79 | 76 | 73 | 63 | 60 | 58 | 47 | 46 | 44 | 33 | 32 | 31 | 25 |
| 2   | 84  | 77  | 71  | 65  | 75 | 69 | 64 | 59 | 55 | 51 | 48 | 41 | 39 | 37 | 29 | 27 | 26 | 20 |
| 3   | 77  | 67  | 60  | 54  | 69 | 61 | 54 | 49 | 48 | 43 | 40 | 36 | 33 | 31 | 25 | 23 | 22 | 17 |
| 4   | 70  | 59  | 51  | 45  | 63 | 53 | 47 | 41 | 42 | 37 | 34 | 32 | 29 | 26 | 23 | 20 | 19 | 14 |
| 5   | 64  | 53  | 45  | 39  | 57 | 47 | 40 | 35 | 38 | 33 | 29 | 29 | 25 | 22 | 20 | 18 | 16 | 12 |
| 6   | 59  | 47  | 39  | 33  | 53 | 42 | 35 | 30 | 34 | 29 | 25 | 26 | 22 | 19 | 18 | 16 | 14 | 11 |
| 7   | 54  | 42  | 34  | 29  | 49 | 38 | 31 | 26 | 31 | 25 | 22 | 23 | 20 | 17 | 17 | 14 | 12 | 10 |
| 8   | 50  | 38  | 31  | 25  | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 21 | 18 | 15 | 15 | 13 | 11 | 8  |
| 9   | 47  | 35  | 27  | 22  | 42 | 31 | 25 | 21 | 25 | 20 | 17 | 20 | 16 | 13 | 14 | 12 | 10 | 8  |
| 10  | 44  | 32  | 25  | 20  | 39 | 29 | 23 | 18 | 23 | 18 | 15 | 18 | 14 | 12 | 13 | 11 | 9  | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7569 | 7569 | 7569 |
| 5°  | 7593 | 7378 | 7383 |
| 10° | 7525 | 7209 | 7173 |
| 15° | 7428 | 7016 | 6943 |
| 20° | 7289 | 6795 | 6690 |
| 25° | 7119 | 6541 | 6425 |
| 30° | 6943 | 6313 | 6156 |
| 35° | 6746 | 6072 | 5942 |
| 40° | 6558 | 5852 | 5711 |
| 45° | 6351 | 5641 | 5527 |
| 50° | 6145 | 5433 | 5325 |
| 55° | 5919 | 5219 | 5143 |
| 60° | 5697 | 5003 | 4956 |
| 65° | 5471 | 4772 | 4733 |
| 70° | 5132 | 4514 | 4504 |
| 75° | 4700 | 4216 | 4274 |
| 80° | 4202 | 3924 | 4008 |
| 85° | 3741 | 3722 | 3854 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.7   | 1.0       |
| 10°-20°   | 190.0  | 2.7       |
| 20°-30°   | 284.2  | 4.1       |
| 30°-40°   | 339.4  | 4.9       |
| 40°-50°   | 355.1  | 5.1       |
| 50°-60°   | 333.2  | 4.8       |
| 60°-70°   | 278.3  | 4.0       |
| 70°-80°   | 199.1  | 2.9       |
| 80°-90°   | 123.6  | 1.8       |
| 90°-100°  | 182.1  | 2.6       |
| 100°-110° | 376.7  | 5.4       |
| 110°-120° | 584.1  | 8.4       |
| 120°-130° | 741.1  | 10.7      |
| 130°-140° | 818.9  | 11.8      |
| 140°-150° | 797.7  | 11.5      |
| 150°-160° | 669.9  | 9.6       |
| 160°-170° | 445.9  | 6.4       |
| 170°-180° | 156.2  | 2.2       |
| 0°-30°    | 540.9  | 7.8       |
| 0°-40°    | 880.3  | 12.7      |
| 0°-60°    | 1568.7 | 22.6      |
| 0°-90°    | 2169.8 | 31.3      |
| 90°-120°  | 1142.9 | 16.5      |
| 90°-150°  | 3500.6 | 50.4      |
| 90°-180°  | 4773.0 | 68.8      |
| 0°-180°   | 6942.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 703  | 703   | 703  | 703   | 703  |      |
| 5°   | 704  | 702   | 698  | 704   | 703  | 67   |
| 15°  | 670  | 672   | 672  | 679   | 679  | 189  |
| 25°  | 605  | 613   | 615  | 625   | 625  | 279  |
| 35°  | 521  | 533   | 543  | 554   | 558  | 326  |
| 45°  | 426  | 444   | 463  | 478   | 484  | 328  |
| 55°  | 325  | 350   | 378  | 398   | 404  | 291  |
| 65°  | 224  | 255   | 288  | 310   | 319  | 222  |
| 75°  | 122  | 158   | 196  | 220   | 231  | 130  |
| 85°  | 38   | 76    | 116  | 141   | 150  | 39   |
| 90°  | 11   | 62    | 118  | 148   | 159  | 11   |
| 95°  | 85   | 124   | 172  | 200   | 208  | 93   |
| 105° | 298  | 320   | 364  | 384   | 394  | 319  |
| 115° | 555  | 569   | 593  | 612   | 618  | 549  |
| 125° | 809  | 814   | 832  | 843   | 844  | 721  |
| 135° | 1048 | 1055  | 1062 | 1071  | 1072 | 807  |
| 145° | 1270 | 1272  | 1276 | 1281  | 1279 | 793  |
| 155° | 1454 | 1454  | 1455 | 1460  | 1451 | 669  |
| 165° | 1584 | 1580  | 1580 | 1587  | 1578 | 446  |
| 175° | 1647 | 1642  | 1642 | 1649  | 1641 | 156  |
| 180° | 1651 | 1651  | 1651 | 1651  | 1651 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 |
| 2.5°   | 706.3 | 705.9 | 705.5 | 705.0 | 704.6 | 703.9 | 702.8 | 701.7 | 700.6 | 699.5 | 700.6 |
| 5°     | 704.0 | 703.6 | 703.3 | 703.0 | 702.6 | 701.9 | 700.9 | 699.9 | 698.9 | 697.8 | 699.2 |
| 7.5°   | 697.1 | 697.1 | 697.2 | 697.3 | 697.4 | 696.9 | 695.9 | 694.9 | 693.9 | 692.9 | 694.6 |
| 10°    | 691.0 | 691.3 | 691.6 | 692.0 | 692.3 | 692.1 | 691.2 | 690.4 | 689.5 | 688.7 | 690.4 |
| 12.5°  | 683.6 | 684.1 | 684.6 | 685.0 | 685.5 | 685.5 | 684.9 | 684.3 | 683.7 | 683.1 | 684.7 |
| 15°    | 670.3 | 670.8 | 671.3 | 671.8 | 672.3 | 672.5 | 672.3 | 672.1 | 672.0 | 671.8 | 673.5 |
| 17.5°  | 653.4 | 654.4 | 655.5 | 656.5 | 657.5 | 658.0 | 657.9 | 657.8 | 657.8 | 657.7 | 659.2 |
| 20°    | 641.2 | 642.2 | 643.2 | 644.2 | 645.2 | 645.9 | 646.3 | 646.6 | 646.9 | 647.3 | 648.8 |
| 22.5°  | 628.3 | 629.3 | 630.3 | 631.4 | 632.4 | 633.1 | 633.6 | 634.1 | 634.6 | 635.0 | 637.0 |
| 25°    | 605.2 | 606.9 | 608.6 | 610.3 | 612.0 | 613.1 | 613.6 | 614.1 | 614.6 | 615.1 | 617.3 |
| 27.5°  | 581.9 | 583.8 | 585.8 | 587.7 | 589.6 | 591.1 | 592.2 | 593.3 | 594.4 | 595.5 | 597.4 |
| 30°    | 565.3 | 567.5 | 569.7 | 572.0 | 574.2 | 576.0 | 577.3 | 578.7 | 580.0 | 581.4 | 583.5 |
| 32.5°  | 546.9 | 549.4 | 551.9 | 554.4 | 556.9 | 559.0 | 560.8 | 562.5 | 564.3 | 566.1 | 568.3 |
| 35°    | 520.9 | 523.6 | 526.3 | 529.1 | 531.8 | 534.3 | 536.5 | 538.7 | 540.9 | 543.1 | 545.7 |
| 37.5°  | 493.3 | 496.4 | 499.4 | 502.5 | 505.6 | 508.5 | 511.2 | 513.9 | 516.6 | 519.4 | 522.3 |
| 40°    | 474.9 | 478.0 | 481.1 | 484.1 | 487.2 | 490.4 | 493.8 | 497.2 | 500.6 | 504.0 | 506.9 |
| 42.5°  | 454.7 | 458.5 | 462.2 | 465.9 | 469.7 | 473.3 | 476.9 | 480.4 | 484.0 | 487.5 | 490.7 |
| 45°    | 425.9 | 430.0 | 434.1 | 438.2 | 442.2 | 446.4 | 450.7 | 454.9 | 459.2 | 463.4 | 466.7 |
| 47.5°  | 395.7 | 400.4 | 405.0 | 409.6 | 414.2 | 419.0 | 423.9 | 428.7 | 433.6 | 438.5 | 442.1 |
| 50°    | 376.1 | 380.9 | 385.6 | 390.4 | 395.2 | 400.2 | 405.5 | 410.8 | 416.0 | 421.3 | 425.2 |
| 52.5°  | 355.3 | 360.3 | 365.4 | 370.4 | 375.4 | 380.9 | 386.7 | 392.5 | 398.3 | 404.2 | 408.2 |
| 55°    | 324.8 | 330.4 | 336.0 | 341.6 | 347.3 | 353.1 | 359.3 | 365.4 | 371.5 | 377.6 | 382.2 |
| 57.5°  | 295.1 | 300.9 | 306.8 | 312.6 | 318.5 | 324.8 | 331.5 | 338.2 | 344.9 | 351.6 | 356.2 |
| 60°    | 274.2 | 280.4 | 286.5 | 292.6 | 298.7 | 305.3 | 312.3 | 319.3 | 326.2 | 333.2 | 338.0 |
| 62.5°  | 254.6 | 260.9 | 267.2 | 273.4 | 279.7 | 286.5 | 293.9 | 301.3 | 308.7 | 316.1 | 320.8 |
| 65°    | 224.4 | 231.1 | 237.7 | 244.4 | 251.0 | 258.1 | 265.6 | 273.0 | 280.5 | 288.0 | 293.1 |
| 67.5°  | 193.8 | 200.9 | 207.9 | 214.9 | 222.0 | 229.3 | 237.0 | 244.6 | 252.2 | 259.8 | 265.4 |
| 70°    | 172.4 | 179.7 | 187.0 | 194.3 | 201.6 | 209.4 | 217.5 | 225.7 | 233.9 | 242.1 | 247.5 |
| 72.5°  | 152.7 | 160.1 | 167.4 | 174.7 | 182.0 | 189.9 | 198.3 | 206.8 | 215.2 | 223.7 | 229.3 |
| 75°    | 121.8 | 129.8 | 137.8 | 145.8 | 153.8 | 162.1 | 170.6 | 179.1 | 187.6 | 196.1 | 201.7 |
| 77.5°  | 94.8  | 102.9 | 111.0 | 119.0 | 127.1 | 135.4 | 144.0 | 152.6 | 161.2 | 169.8 | 175.7 |
| 80°    | 75.8  | 84.2  | 92.5  | 100.9 | 109.2 | 117.8 | 126.6 | 135.5 | 144.4 | 153.2 | 159.0 |
| 82.5°  | 59.3  | 67.8  | 76.2  | 84.7  | 93.2  | 101.9 | 110.9 | 119.9 | 128.9 | 137.9 | 143.7 |
| 85°    | 37.5  | 46.0  | 54.6  | 63.1  | 71.6  | 80.3  | 89.4  | 98.4  | 107.4 | 116.4 | 122.2 |
| 87.5°  | 20.6  | 29.7  | 38.7  | 47.8  | 56.9  | 66.1  | 75.5  | 85.0  | 94.4  | 103.8 | 109.8 |
| 90°    | 11.3  | 22.5  | 33.7  | 44.9  | 56.1  | 68.0  | 80.4  | 92.8  | 105.3 | 117.7 | 124.6 |
| 92.5°  | 40.7  | 50.2  | 59.7  | 69.2  | 78.7  | 88.7  | 99.4  | 110.1 | 120.8 | 131.5 | 138.0 |
| 95°    | 84.9  | 93.6  | 102.3 | 110.9 | 119.6 | 129.2 | 139.9 | 150.5 | 161.2 | 171.8 | 178.2 |
| 97.5°  | 143.4 | 150.9 | 158.4 | 165.9 | 173.4 | 182.0 | 191.6 | 201.2 | 210.9 | 220.5 | 226.9 |
| 100°   | 183.3 | 190.5 | 197.6 | 204.8 | 212.0 | 220.2 | 229.5 | 238.8 | 248.0 | 257.3 | 263.1 |
| 102.5° | 229.4 | 235.3 | 241.2 | 247.2 | 253.1 | 260.9 | 270.5 | 280.1 | 289.7 | 299.3 | 304.9 |
| 105°   | 297.9 | 302.6 | 307.3 | 311.9 | 316.6 | 323.9 | 333.8 | 343.7 | 353.6 | 363.5 | 368.3 |
| 107.5° | 376.9 | 380.7 | 384.6 | 388.4 | 392.2 | 398.1 | 406.1 | 414.1 | 422.0 | 430.0 | 435.5 |
| 110°   | 426.1 | 429.8 | 433.4 | 437.0 | 440.7 | 446.2 | 453.6 | 461.0 | 468.3 | 475.7 | 481.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 478.0  | 480.9  | 483.7  | 486.6  | 489.5  | 494.2  | 500.9  | 507.5  | 514.2  | 520.8  | 526.5  |
| 115°   | 555.0  | 558.0  | 560.9  | 563.8  | 566.7  | 570.9  | 576.5  | 582.0  | 587.6  | 593.1  | 597.5  |
| 117.5° | 633.2  | 635.1  | 636.9  | 638.7  | 640.6  | 644.0  | 649.0  | 654.0  | 659.0  | 664.0  | 668.0  |
| 120°   | 681.4  | 684.0  | 686.5  | 689.1  | 691.7  | 695.1  | 699.3  | 703.4  | 707.6  | 711.8  | 715.4  |
| 122.5° | 732.2  | 733.9  | 735.6  | 737.4  | 739.1  | 742.2  | 746.8  | 751.4  | 756.0  | 760.6  | 763.6  |
| 125°   | 809.0  | 809.9  | 810.7  | 811.6  | 812.5  | 815.1  | 819.4  | 823.8  | 828.2  | 832.5  | 835.0  |
| 127.5° | 880.6  | 882.3  | 884.0  | 885.6  | 887.3  | 889.9  | 893.3  | 896.8  | 900.2  | 903.7  | 905.4  |
| 130°   | 928.3  | 930.5  | 932.6  | 934.7  | 936.9  | 939.2  | 941.8  | 944.3  | 946.8  | 949.4  | 951.5  |
| 132.5° | 975.5  | 977.7  | 980.0  | 982.3  | 984.5  | 986.7  | 988.8  | 990.9  | 993.0  | 995.1  | 996.8  |
| 135°   | 1048.2 | 1049.8 | 1051.3 | 1052.9 | 1054.4 | 1056.0 | 1057.6 | 1059.2 | 1060.8 | 1062.3 | 1064.2 |
| 137.5° | 1115.5 | 1116.8 | 1118.1 | 1119.4 | 1120.7 | 1122.3 | 1124.1 | 1125.9 | 1127.7 | 1129.5 | 1131.0 |
| 140°   | 1161.6 | 1163.0 | 1164.4 | 1165.9 | 1167.3 | 1168.4 | 1169.2 | 1170.0 | 1170.8 | 1171.6 | 1173.9 |
| 142.5° | 1204.1 | 1205.4 | 1206.7 | 1208.0 | 1209.3 | 1210.3 | 1210.9 | 1211.5 | 1212.1 | 1212.8 | 1214.8 |
| 145°   | 1270.5 | 1270.9 | 1271.3 | 1271.7 | 1272.1 | 1272.8 | 1273.6 | 1274.5 | 1275.4 | 1276.2 | 1277.3 |
| 147.5° | 1327.8 | 1328.9 | 1329.9 | 1331.0 | 1332.0 | 1332.9 | 1333.7 | 1334.5 | 1335.3 | 1336.1 | 1336.6 |
| 150°   | 1368.3 | 1368.9 | 1369.5 | 1370.0 | 1370.6 | 1371.2 | 1371.8 | 1372.3 | 1372.9 | 1373.5 | 1373.5 |
| 152.5° | 1401.5 | 1402.3 | 1403.1 | 1403.9 | 1404.7 | 1405.3 | 1405.7 | 1406.0 | 1406.4 | 1406.7 | 1407.2 |
| 155°   | 1453.9 | 1453.9 | 1453.9 | 1453.9 | 1453.9 | 1454.1 | 1454.3 | 1454.6 | 1454.9 | 1455.2 | 1456.4 |
| 157.5° | 1498.5 | 1498.2 | 1497.8 | 1497.5 | 1497.1 | 1497.1 | 1497.3 | 1497.5 | 1497.8 | 1498.0 | 1499.2 |
| 160°   | 1526.5 | 1526.0 | 1525.4 | 1524.8 | 1524.2 | 1523.9 | 1523.9 | 1523.9 | 1523.9 | 1523.9 | 1525.4 |
| 162.5° | 1551.4 | 1550.6 | 1549.8 | 1549.0 | 1548.2 | 1547.9 | 1548.2 | 1548.4 | 1548.6 | 1548.8 | 1550.3 |
| 165°   | 1583.6 | 1582.7 | 1581.9 | 1581.0 | 1580.2 | 1579.7 | 1579.7 | 1579.7 | 1579.7 | 1579.7 | 1581.4 |
| 167.5° | 1609.3 | 1608.1 | 1607.0 | 1605.8 | 1604.7 | 1604.2 | 1604.4 | 1604.7 | 1604.9 | 1605.1 | 1606.9 |
| 170°   | 1623.8 | 1622.7 | 1621.5 | 1620.4 | 1619.2 | 1618.6 | 1618.6 | 1618.6 | 1618.6 | 1618.6 | 1620.6 |
| 172.5° | 1635.2 | 1634.1 | 1632.9 | 1631.8 | 1630.6 | 1630.0 | 1630.0 | 1630.0 | 1630.0 | 1630.0 | 1631.8 |
| 175°   | 1647.2 | 1646.0 | 1644.9 | 1643.7 | 1642.5 | 1642.0 | 1642.0 | 1642.0 | 1642.0 | 1642.0 | 1643.7 |
| 177.5° | 1652.1 | 1651.2 | 1650.2 | 1649.3 | 1648.4 | 1647.9 | 1647.9 | 1647.9 | 1647.9 | 1647.9 | 1649.3 |
| 180°   | 1651.1 | 1651.1 | 1651.1 | 1651.1 | 1651.1 | 1651.1 | 1651.1 | 1651.1 | 1651.1 | 1651.1 | 1651.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 | 703.2 |
| 2.5°   | 701.7 | 702.8 | 703.9 | 704.4 | 704.2 | 704.1 | 704.0 | 703.8 |
| 5°     | 700.6 | 701.9 | 703.3 | 703.9 | 703.7 | 703.5 | 703.4 | 703.2 |
| 7.5°   | 696.3 | 698.0 | 699.8 | 700.5 | 700.3 | 700.1 | 699.9 | 699.7 |
| 10°    | 692.1 | 693.8 | 695.5 | 696.1 | 695.8 | 695.5 | 695.1 | 694.8 |
| 12.5°  | 686.3 | 687.8 | 689.4 | 690.0 | 689.7 | 689.3 | 689.0 | 688.7 |
| 15°    | 675.2 | 676.9 | 678.6 | 679.4 | 679.2 | 679.0 | 678.9 | 678.7 |
| 17.5°  | 660.8 | 662.3 | 663.8 | 664.5 | 664.2 | 664.0 | 663.8 | 663.5 |
| 20°    | 650.4 | 651.9 | 653.4 | 654.3 | 654.4 | 654.6 | 654.8 | 654.9 |
| 22.5°  | 638.9 | 640.9 | 642.8 | 643.7 | 643.6 | 643.5 | 643.4 | 643.3 |
| 25°    | 619.5 | 621.8 | 624.0 | 625.1 | 625.1 | 625.1 | 625.1 | 625.1 |
| 27.5°  | 599.3 | 601.2 | 603.1 | 604.2 | 604.3 | 604.4 | 604.6 | 604.7 |
| 30°    | 585.5 | 587.5 | 589.6 | 590.6 | 590.6 | 590.6 | 590.6 | 590.6 |
| 32.5°  | 570.4 | 572.6 | 574.8 | 576.1 | 576.5 | 576.9 | 577.3 | 577.7 |
| 35°    | 548.2 | 550.8 | 553.3 | 554.9 | 555.6 | 556.3 | 557.0 | 557.7 |
| 37.5°  | 525.1 | 528.0 | 530.9 | 532.7 | 533.2 | 533.7 | 534.3 | 534.8 |
| 40°    | 509.8 | 512.7 | 515.6 | 517.4 | 518.1 | 518.8 | 519.4 | 520.1 |
| 42.5°  | 493.8 | 497.0 | 500.2 | 502.2 | 503.2 | 504.1 | 505.1 | 506.0 |
| 45°    | 469.9 | 473.1 | 476.4 | 478.7 | 480.0 | 481.4 | 482.8 | 484.1 |
| 47.5°  | 445.8 | 449.4 | 453.0 | 455.4 | 456.4 | 457.5 | 458.6 | 459.6 |
| 50°    | 429.1 | 433.1 | 437.0 | 439.5 | 440.7 | 441.9 | 443.1 | 444.3 |
| 52.5°  | 412.3 | 416.3 | 420.4 | 423.1 | 424.6 | 426.0 | 427.5 | 429.0 |
| 55°    | 386.8 | 391.4 | 396.0 | 399.0 | 400.4 | 401.7 | 403.1 | 404.5 |
| 57.5°  | 360.9 | 365.5 | 370.1 | 373.2 | 374.8 | 376.4 | 378.0 | 379.6 |
| 60°    | 342.8 | 347.5 | 352.3 | 355.6 | 357.5 | 359.3 | 361.2 | 363.1 |
| 62.5°  | 325.6 | 330.4 | 335.1 | 338.4 | 340.1 | 341.8 | 343.6 | 345.3 |
| 65°    | 298.2 | 303.3 | 308.5 | 311.9 | 313.6 | 315.3 | 317.0 | 318.7 |
| 67.5°  | 271.0 | 276.6 | 282.2 | 285.7 | 287.1 | 288.5 | 290.0 | 291.4 |
| 70°    | 253.0 | 258.4 | 263.9 | 267.4 | 269.1 | 270.8 | 272.5 | 274.2 |
| 72.5°  | 234.8 | 240.4 | 246.0 | 249.7 | 251.4 | 253.1 | 254.8 | 256.5 |
| 75°    | 207.3 | 213.0 | 218.6 | 222.4 | 224.4 | 226.5 | 228.5 | 230.6 |
| 77.5°  | 181.6 | 187.5 | 193.4 | 197.2 | 198.8 | 200.3 | 201.9 | 203.5 |
| 80°    | 164.8 | 170.6 | 176.4 | 180.1 | 181.8 | 183.5 | 185.2 | 186.9 |
| 82.5°  | 149.5 | 155.2 | 161.0 | 164.8 | 166.5 | 168.2 | 169.9 | 171.6 |
| 85°    | 128.0 | 133.8 | 139.6 | 143.3 | 145.0 | 146.7 | 148.4 | 150.1 |
| 87.5°  | 115.9 | 121.9 | 127.9 | 131.8 | 133.6 | 135.4 | 137.3 | 139.1 |
| 90°    | 131.6 | 138.5 | 145.5 | 150.1 | 152.3 | 154.6 | 156.9 | 159.2 |
| 92.5°  | 144.6 | 151.2 | 157.8 | 161.7 | 162.9 | 164.1 | 165.3 | 166.5 |
| 95°    | 184.7 | 191.1 | 197.5 | 201.6 | 203.3 | 205.0 | 206.7 | 208.4 |
| 97.5°  | 233.3 | 239.7 | 246.1 | 250.1 | 251.7 | 253.3 | 254.9 | 256.4 |
| 100°   | 268.9 | 274.7 | 280.5 | 284.5 | 286.8 | 289.1 | 291.4 | 293.7 |
| 102.5° | 310.6 | 316.3 | 321.9 | 325.6 | 327.1 | 328.7 | 330.3 | 331.9 |
| 105°   | 373.1 | 377.8 | 382.6 | 386.0 | 388.1 | 390.3 | 392.4 | 394.5 |
| 107.5° | 441.0 | 446.5 | 452.0 | 455.3 | 456.4 | 457.6 | 458.7 | 459.9 |
| 110°   | 486.9 | 492.5 | 498.0 | 501.2 | 502.0 | 502.8 | 503.6 | 504.4 |





TEST NUMBER: P332141

CATALOG NUMBER: S123DIW-S560D1320U835-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 532.2  | 537.8  | 543.5  | 547.0  | 548.4  | 549.8  | 551.2  | 552.6  |
| 115°   | 601.9  | 606.2  | 610.6  | 613.3  | 614.4  | 615.5  | 616.6  | 617.6  |
| 117.5° | 672.0  | 676.0  | 680.0  | 682.2  | 682.8  | 683.3  | 683.8  | 684.3  |
| 120°   | 719.0  | 722.7  | 726.3  | 728.4  | 729.0  | 729.6  | 730.3  | 730.9  |
| 122.5° | 766.7  | 769.7  | 772.7  | 774.4  | 774.8  | 775.2  | 775.6  | 776.0  |
| 125°   | 837.4  | 839.8  | 842.2  | 843.4  | 843.5  | 843.5  | 843.6  | 843.6  |
| 127.5° | 907.2  | 908.9  | 910.7  | 911.5  | 911.3  | 911.2  | 911.0  | 910.8  |
| 130°   | 953.5  | 955.6  | 957.7  | 958.2  | 957.3  | 956.3  | 955.3  | 954.3  |
| 132.5° | 998.5  | 1000.2 | 1001.9 | 1002.6 | 1002.2 | 1001.8 | 1001.4 | 1001.0 |
| 135°   | 1066.2 | 1068.1 | 1070.0 | 1071.1 | 1071.4 | 1071.6 | 1071.9 | 1072.2 |
| 137.5° | 1132.4 | 1133.9 | 1135.4 | 1136.0 | 1135.8 | 1135.5 | 1135.3 | 1135.0 |
| 140°   | 1176.2 | 1178.4 | 1180.7 | 1181.3 | 1180.1 | 1178.9 | 1177.8 | 1176.6 |
| 142.5° | 1216.8 | 1218.7 | 1220.7 | 1221.4 | 1220.7 | 1220.0 | 1219.3 | 1218.6 |
| 145°   | 1278.4 | 1279.4 | 1280.5 | 1280.8 | 1280.3 | 1279.9 | 1279.4 | 1278.9 |
| 147.5° | 1337.0 | 1337.4 | 1337.8 | 1337.4 | 1336.3 | 1335.2 | 1334.1 | 1333.0 |
| 150°   | 1373.5 | 1373.5 | 1373.5 | 1372.8 | 1371.4 | 1370.0 | 1368.6 | 1367.2 |
| 152.5° | 1407.6 | 1408.1 | 1408.5 | 1408.1 | 1406.6 | 1405.2 | 1403.8 | 1402.3 |
| 155°   | 1457.5 | 1458.7 | 1459.8 | 1459.4 | 1457.4 | 1455.4 | 1453.3 | 1451.3 |
| 157.5° | 1500.4 | 1501.6 | 1502.9 | 1502.6 | 1501.0 | 1499.4 | 1497.8 | 1496.2 |
| 160°   | 1526.8 | 1528.3 | 1529.7 | 1529.9 | 1528.7 | 1527.6 | 1526.4 | 1525.2 |
| 162.5° | 1551.7 | 1553.2 | 1554.6 | 1554.4 | 1552.6 | 1550.7 | 1548.9 | 1547.0 |
| 165°   | 1583.2 | 1584.9 | 1586.6 | 1586.5 | 1584.5 | 1582.5 | 1580.4 | 1578.4 |
| 167.5° | 1608.7 | 1610.5 | 1612.3 | 1612.3 | 1610.5 | 1608.7 | 1606.9 | 1605.1 |
| 170°   | 1622.7 | 1624.7 | 1626.7 | 1626.7 | 1624.7 | 1622.7 | 1620.6 | 1618.6 |
| 172.5° | 1633.6 | 1635.4 | 1637.2 | 1637.1 | 1635.1 | 1633.0 | 1631.0 | 1629.0 |
| 175°   | 1645.4 | 1647.2 | 1648.9 | 1648.7 | 1646.7 | 1644.7 | 1642.7 | 1640.7 |
| 177.5° | 1650.7 | 1652.1 | 1653.5 | 1653.4 | 1651.7 | 1650.1 | 1648.5 | 1646.9 |
| 180°   | 1651.1 | 1651.1 | 1651.1 | 1651.1 | 1651.1 | 1651.1 | 1651.1 | 1651.1 |

(END OF REPORT)