

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: P332134-930

Luminaire Tested: **S123DIW-S560D1030U930-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332134-930  
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-S560D1030U930-4F0-1E-UDD-D  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1030 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5291.0 lumens  
Efficiency: N/A  
Efficacy: 117.1 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

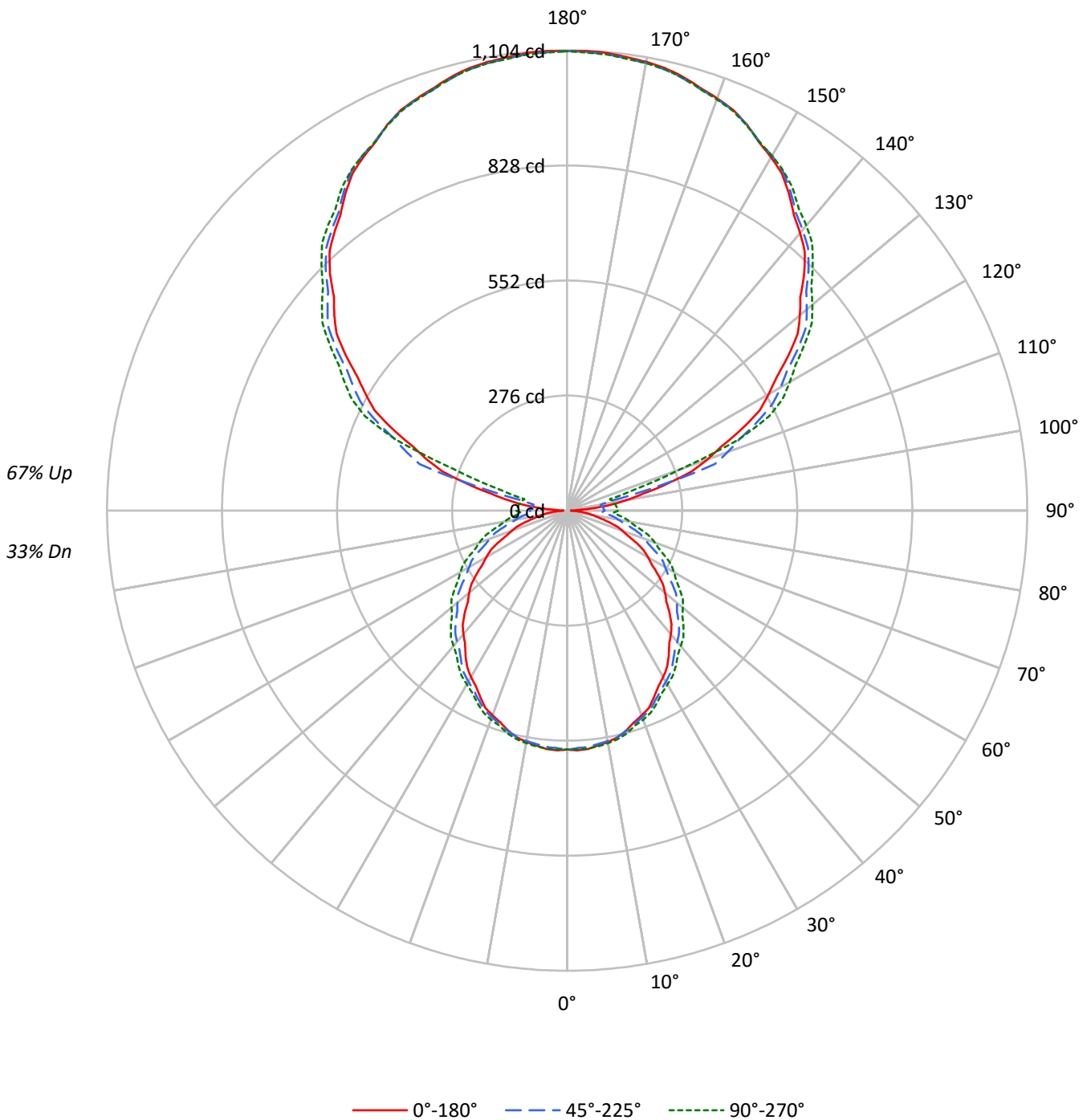
Input Watts (W): 45.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332134-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P332134-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-D

**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 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 33 |
| 1   | 93  | 89  | 85  | 81  | 84 | 80 | 77 | 74 | 64 | 61 | 59 | 49 | 47 | 46 | 35 | 34 | 33 | 27 |
| 2   | 85  | 77  | 71  | 66  | 76 | 70 | 64 | 60 | 55 | 52 | 48 | 42 | 40 | 38 | 30 | 29 | 27 | 22 |
| 3   | 77  | 68  | 60  | 54  | 69 | 61 | 55 | 50 | 49 | 44 | 40 | 37 | 34 | 31 | 27 | 25 | 23 | 18 |
| 4   | 70  | 60  | 52  | 46  | 63 | 54 | 47 | 42 | 43 | 38 | 34 | 33 | 30 | 27 | 24 | 21 | 20 | 15 |
| 5   | 64  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 38 | 33 | 29 | 29 | 26 | 23 | 21 | 19 | 17 | 13 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 27 | 23 | 20 | 19 | 17 | 15 | 12 |
| 7   | 55  | 42  | 35  | 29  | 49 | 39 | 32 | 27 | 31 | 26 | 22 | 24 | 20 | 18 | 17 | 15 | 13 | 10 |
| 8   | 51  | 38  | 31  | 25  | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 16 | 16 | 13 | 12 | 9  |
| 9   | 47  | 35  | 28  | 23  | 42 | 32 | 25 | 21 | 26 | 21 | 17 | 20 | 16 | 14 | 15 | 12 | 10 | 8  |
| 10  | 44  | 32  | 25  | 20  | 39 | 29 | 23 | 19 | 24 | 19 | 15 | 19 | 15 | 12 | 14 | 11 | 9  | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6171 | 6171 | 6171 |
| 5°  | 6191 | 6015 | 6019 |
| 10° | 6135 | 5878 | 5848 |
| 15° | 6056 | 5720 | 5660 |
| 20° | 5943 | 5540 | 5454 |
| 25° | 5804 | 5333 | 5238 |
| 30° | 5660 | 5147 | 5019 |
| 35° | 5500 | 4950 | 4844 |
| 40° | 5347 | 4771 | 4656 |
| 45° | 5177 | 4599 | 4506 |
| 50° | 5010 | 4430 | 4341 |
| 55° | 4826 | 4256 | 4193 |
| 60° | 4646 | 4080 | 4040 |
| 65° | 4462 | 3891 | 3859 |
| 70° | 4185 | 3680 | 3673 |
| 75° | 3832 | 3437 | 3484 |
| 80° | 3426 | 3199 | 3268 |
| 85° | 3052 | 3034 | 3143 |



TEST NUMBER: P332134-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.4   | 1.0       |
| 10°-20°   | 154.9  | 2.9       |
| 20°-30°   | 231.7  | 4.4       |
| 30°-40°   | 276.7  | 5.2       |
| 40°-50°   | 289.5  | 5.5       |
| 50°-60°   | 271.7  | 5.1       |
| 60°-70°   | 226.9  | 4.3       |
| 70°-80°   | 162.4  | 3.1       |
| 80°-90°   | 99.9   | 1.9       |
| 90°-100°  | 100.8  | 1.9       |
| 100°-110° | 235.6  | 4.5       |
| 110°-120° | 488.6  | 9.2       |
| 120°-130° | 601.2  | 11.4      |
| 130°-140° | 631.8  | 11.9      |
| 140°-150° | 585.3  | 11.1      |
| 150°-160° | 470.8  | 8.9       |
| 160°-170° | 303.9  | 5.7       |
| 170°-180° | 104.7  | 2.0       |
| 0°-30°    | 441.0  | 8.3       |
| 0°-40°    | 717.7  | 13.6      |
| 0°-60°    | 1279.0 | 24.2      |
| 0°-90°    | 1768.2 | 33.4      |
| 90°-120°  | 825.0  | 15.6      |
| 90°-150°  | 2643.4 | 50.0      |
| 90°-180°  | 3523.0 | 66.6      |
| 0°-180°   | 5291.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 573  | 573   | 573  | 573   | 573  |      |
| 5°   | 574  | 573   | 569  | 574   | 573  | 54   |
| 15°  | 546  | 548   | 548  | 554   | 553  | 154  |
| 25°  | 493  | 499   | 502  | 509   | 510  | 227  |
| 35°  | 425  | 435   | 443  | 452   | 455  | 266  |
| 45°  | 347  | 362   | 378  | 389   | 395  | 268  |
| 55°  | 265  | 286   | 308  | 324   | 330  | 237  |
| 65°  | 183  | 208   | 235  | 253   | 260  | 181  |
| 75°  | 99   | 129   | 160  | 180   | 188  | 106  |
| 85°  | 31   | 62    | 95   | 115   | 122  | 32   |
| 90°  | 9    | 48    | 90   | 114   | 123  | 8    |
| 95°  | 57   | 50    | 87   | 111   | 118  | 67   |
| 105° | 249  | 269   | 226  | 106   | 106  | 264  |
| 115° | 461  | 474   | 503  | 526   | 535  | 455  |
| 125° | 647  | 655   | 675  | 689   | 696  | 578  |
| 135° | 805  | 809   | 819  | 832   | 833  | 619  |
| 145° | 928  | 932   | 934  | 941   | 944  | 580  |
| 155° | 1021 | 1020  | 1020 | 1024  | 1020 | 470  |
| 165° | 1077 | 1074  | 1074 | 1079  | 1074 | 304  |
| 175° | 1102 | 1098  | 1099 | 1104  | 1098 | 105  |
| 180° | 1102 | 1102  | 1102 | 1102  | 1102 |      |



TEST NUMBER: P332134-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 |
| 2.5°   | 575.8 | 575.5 | 575.2 | 574.8 | 574.5 | 573.9 | 573.0 | 572.1 | 571.2 | 570.3 | 571.2 |
| 5°     | 574.0 | 573.6 | 573.4 | 573.2 | 572.8 | 572.3 | 571.4 | 570.6 | 569.8 | 568.9 | 570.1 |
| 7.5°   | 568.3 | 568.3 | 568.4 | 568.5 | 568.6 | 568.2 | 567.4 | 566.6 | 565.7 | 564.9 | 566.3 |
| 10°    | 563.4 | 563.6 | 563.9 | 564.2 | 564.4 | 564.3 | 563.5 | 562.9 | 562.1 | 561.5 | 562.9 |
| 12.5°  | 557.3 | 557.7 | 558.2 | 558.5 | 558.9 | 558.9 | 558.4 | 557.9 | 557.4 | 556.9 | 558.2 |
| 15°    | 546.5 | 546.9 | 547.3 | 547.7 | 548.1 | 548.3 | 548.1 | 548.0 | 547.9 | 547.7 | 549.1 |
| 17.5°  | 532.7 | 533.5 | 534.4 | 535.2 | 536.1 | 536.5 | 536.4 | 536.3 | 536.3 | 536.2 | 537.4 |
| 20°    | 522.8 | 523.6 | 524.4 | 525.2 | 526.0 | 526.6 | 526.9 | 527.2 | 527.4 | 527.7 | 529.0 |
| 22.5°  | 512.3 | 513.1 | 513.9 | 514.8 | 515.6 | 516.2 | 516.6 | 517.0 | 517.4 | 517.7 | 519.3 |
| 25°    | 493.4 | 494.8 | 496.2 | 497.6 | 499.0 | 499.9 | 500.3 | 500.7 | 501.1 | 501.5 | 503.3 |
| 27.5°  | 474.4 | 476.0 | 477.6 | 479.2 | 480.7 | 481.9 | 482.8 | 483.7 | 484.6 | 485.5 | 487.1 |
| 30°    | 460.9 | 462.7 | 464.5 | 466.4 | 468.1 | 469.6 | 470.7 | 471.8 | 472.9 | 474.0 | 475.7 |
| 32.5°  | 445.9 | 447.9 | 450.0 | 452.0 | 454.0 | 455.8 | 457.2 | 458.6 | 460.1 | 461.5 | 463.3 |
| 35°    | 424.7 | 426.9 | 429.1 | 431.4 | 433.6 | 435.6 | 437.4 | 439.2 | 441.0 | 442.8 | 444.9 |
| 37.5°  | 402.2 | 404.7 | 407.2 | 409.7 | 412.2 | 414.6 | 416.8 | 419.0 | 421.2 | 423.5 | 425.8 |
| 40°    | 387.2 | 389.7 | 392.2 | 394.7 | 397.2 | 399.8 | 402.6 | 405.4 | 408.1 | 410.9 | 413.3 |
| 42.5°  | 370.7 | 373.8 | 376.8 | 379.8 | 382.9 | 385.9 | 388.8 | 391.7 | 394.6 | 397.5 | 400.1 |
| 45°    | 347.2 | 350.6 | 353.9 | 357.3 | 360.5 | 363.9 | 367.5 | 370.9 | 374.4 | 377.8 | 380.5 |
| 47.5°  | 322.6 | 326.4 | 330.2 | 333.9 | 337.7 | 341.6 | 345.6 | 349.5 | 353.5 | 357.5 | 360.4 |
| 50°    | 306.6 | 310.5 | 314.4 | 318.3 | 322.2 | 326.3 | 330.6 | 334.9 | 339.2 | 343.5 | 346.7 |
| 52.5°  | 289.7 | 293.8 | 297.9 | 302.0 | 306.1 | 310.5 | 315.3 | 320.0 | 324.7 | 329.5 | 332.8 |
| 55°    | 264.8 | 269.4 | 273.9 | 278.5 | 283.2 | 287.9 | 292.9 | 297.9 | 302.9 | 307.9 | 311.6 |
| 57.5°  | 240.6 | 245.3 | 250.1 | 254.9 | 259.7 | 264.8 | 270.3 | 275.7 | 281.2 | 286.7 | 290.4 |
| 60°    | 223.6 | 228.6 | 233.6 | 238.6 | 243.5 | 248.9 | 254.6 | 260.3 | 266.0 | 271.7 | 275.6 |
| 62.5°  | 207.6 | 212.7 | 217.8 | 222.9 | 228.0 | 233.6 | 239.6 | 245.6 | 251.7 | 257.7 | 261.5 |
| 65°    | 183.0 | 188.4 | 193.8 | 199.3 | 204.6 | 210.4 | 216.5 | 222.6 | 228.7 | 234.8 | 239.0 |
| 67.5°  | 158.0 | 163.8 | 169.5 | 175.2 | 181.0 | 186.9 | 193.2 | 199.4 | 205.6 | 211.8 | 216.4 |
| 70°    | 140.6 | 146.5 | 152.5 | 158.4 | 164.4 | 170.7 | 177.3 | 184.0 | 190.7 | 197.4 | 201.8 |
| 72.5°  | 124.5 | 130.5 | 136.5 | 142.4 | 148.4 | 154.8 | 161.7 | 168.6 | 175.5 | 182.4 | 186.9 |
| 75°    | 99.3  | 105.8 | 112.3 | 118.9 | 125.4 | 132.2 | 139.1 | 146.0 | 153.0 | 159.9 | 164.4 |
| 77.5°  | 77.3  | 83.9  | 90.5  | 97.0  | 103.6 | 110.4 | 117.4 | 124.4 | 131.4 | 138.4 | 143.2 |
| 80°    | 61.8  | 68.6  | 75.4  | 82.3  | 89.0  | 96.0  | 103.2 | 110.5 | 117.7 | 124.9 | 129.6 |
| 82.5°  | 48.3  | 55.3  | 62.1  | 69.1  | 76.0  | 83.1  | 90.4  | 97.8  | 105.1 | 112.4 | 117.2 |
| 85°    | 30.6  | 37.5  | 44.5  | 51.4  | 58.4  | 65.5  | 72.9  | 80.2  | 87.6  | 94.9  | 99.6  |
| 87.5°  | 16.8  | 24.1  | 31.3  | 38.6  | 45.9  | 53.3  | 60.8  | 68.4  | 76.0  | 83.5  | 88.4  |
| 90°    | 9.0   | 17.5  | 26.2  | 34.8  | 43.5  | 52.4  | 61.9  | 71.3  | 80.8  | 90.3  | 95.6  |
| 92.5°  | 22.8  | 28.5  | 34.1  | 39.7  | 45.3  | 52.5  | 61.3  | 70.0  | 78.8  | 87.6  | 93.4  |
| 95°    | 56.8  | 54.8  | 52.7  | 50.7  | 48.6  | 52.0  | 60.8  | 69.6  | 78.4  | 87.2  | 92.8  |
| 97.5°  | 106.5 | 108.0 | 109.6 | 111.1 | 112.7 | 110.1 | 103.5 | 96.9  | 90.3  | 83.7  | 89.3  |
| 100°   | 144.0 | 152.1 | 160.2 | 168.3 | 176.3 | 169.3 | 147.4 | 125.4 | 103.4 | 81.4  | 86.8  |
| 102.5° | 186.8 | 193.4 | 200.0 | 206.6 | 213.2 | 204.2 | 179.4 | 154.7 | 130.0 | 105.3 | 104.6 |
| 105°   | 249.0 | 254.4 | 259.7 | 265.1 | 270.4 | 267.8 | 257.4 | 247.0 | 236.6 | 226.2 | 197.9 |
| 107.5° | 314.1 | 318.5 | 322.9 | 327.4 | 331.8 | 338.2 | 346.4 | 354.7 | 362.9 | 371.2 | 351.2 |
| 110°   | 357.5 | 361.4 | 365.4 | 369.3 | 373.3 | 379.1 | 386.6 | 394.2 | 401.7 | 409.3 | 406.9 |



TEST NUMBER: P332134-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 399.4  | 402.8  | 406.2  | 409.5  | 412.9  | 418.2  | 425.6  | 432.9  | 440.3  | 447.6  | 451.2  |
| 115°   | 460.9  | 463.7  | 466.4  | 469.1  | 471.9  | 476.6  | 483.2  | 489.9  | 496.5  | 503.1  | 508.3  |
| 117.5° | 520.9  | 523.3  | 525.6  | 528.0  | 530.4  | 534.3  | 539.8  | 545.4  | 550.9  | 556.4  | 561.2  |
| 120°   | 557.7  | 560.0  | 562.4  | 564.7  | 567.0  | 570.8  | 575.9  | 581.0  | 586.1  | 591.3  | 595.9  |
| 122.5° | 595.7  | 597.4  | 599.1  | 600.8  | 602.5  | 605.9  | 611.0  | 616.0  | 621.1  | 626.1  | 630.2  |
| 125°   | 647.2  | 648.7  | 650.0  | 651.5  | 653.0  | 656.1  | 660.8  | 665.6  | 670.3  | 675.1  | 678.4  |
| 127.5° | 697.6  | 699.0  | 700.3  | 701.6  | 702.9  | 705.6  | 709.8  | 714.0  | 718.3  | 722.4  | 725.8  |
| 130°   | 729.0  | 730.3  | 731.6  | 733.0  | 734.3  | 736.7  | 740.2  | 743.7  | 747.2  | 750.7  | 754.1  |
| 132.5° | 758.7  | 760.1  | 761.6  | 763.0  | 764.4  | 766.5  | 769.3  | 772.1  | 774.9  | 777.7  | 781.0  |
| 135°   | 804.6  | 805.5  | 806.5  | 807.5  | 808.4  | 810.0  | 812.3  | 814.5  | 816.8  | 819.0  | 822.1  |
| 137.5° | 843.8  | 845.1  | 846.3  | 847.6  | 848.9  | 850.1  | 851.4  | 852.6  | 853.9  | 855.2  | 858.3  |
| 140°   | 869.4  | 870.6  | 871.6  | 872.8  | 873.8  | 874.9  | 875.8  | 876.8  | 877.8  | 878.7  | 881.5  |
| 142.5° | 893.7  | 894.7  | 895.7  | 896.7  | 897.6  | 898.5  | 899.0  | 899.7  | 900.3  | 901.0  | 903.4  |
| 145°   | 927.6  | 928.7  | 929.8  | 931.0  | 932.1  | 932.9  | 933.3  | 933.6  | 934.0  | 934.3  | 935.8  |
| 147.5° | 959.0  | 959.8  | 960.6  | 961.4  | 962.3  | 962.9  | 963.2  | 963.6  | 963.9  | 964.3  | 965.0  |
| 150°   | 978.6  | 979.1  | 979.7  | 980.2  | 980.7  | 981.2  | 981.5  | 981.9  | 982.3  | 982.7  | 983.0  |
| 152.5° | 996.3  | 996.5  | 996.8  | 997.0  | 997.3  | 997.5  | 997.8  | 997.9  | 998.2  | 998.4  | 999.1  |
| 155°   | 1021.2 | 1020.8 | 1020.4 | 1020.1 | 1019.7 | 1019.6 | 1019.8 | 1019.9 | 1020.2 | 1020.3 | 1021.2 |
| 157.5° | 1040.5 | 1040.5 | 1040.4 | 1040.4 | 1040.3 | 1040.2 | 1040.1 | 1039.8 | 1039.7 | 1039.5 | 1040.6 |
| 160°   | 1052.3 | 1052.1 | 1051.9 | 1051.7 | 1051.6 | 1051.3 | 1051.2 | 1051.0 | 1050.8 | 1050.7 | 1051.7 |
| 162.5° | 1063.4 | 1062.9 | 1062.5 | 1062.0 | 1061.5 | 1061.2 | 1061.0 | 1060.9 | 1060.6 | 1060.5 | 1061.7 |
| 165°   | 1076.8 | 1076.3 | 1075.8 | 1075.2 | 1074.6 | 1074.3 | 1074.1 | 1073.9 | 1073.7 | 1073.6 | 1075.1 |
| 167.5° | 1087.3 | 1086.6 | 1085.9 | 1085.2 | 1084.4 | 1084.0 | 1084.0 | 1084.0 | 1084.0 | 1084.0 | 1085.5 |
| 170°   | 1093.2 | 1092.5 | 1091.8 | 1091.0 | 1090.3 | 1090.0 | 1090.0 | 1090.0 | 1090.0 | 1090.0 | 1091.4 |
| 172.5° | 1097.1 | 1096.3 | 1095.4 | 1094.5 | 1093.6 | 1093.3 | 1093.4 | 1093.6 | 1093.7 | 1093.9 | 1095.4 |
| 175°   | 1102.2 | 1101.3 | 1100.4 | 1099.5 | 1098.6 | 1098.2 | 1098.4 | 1098.6 | 1098.8 | 1098.9 | 1100.2 |
| 177.5° | 1103.5 | 1102.8 | 1102.1 | 1101.4 | 1100.7 | 1100.3 | 1100.5 | 1100.7 | 1100.7 | 1100.9 | 1102.1 |
| 180°   | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 |



TEST NUMBER: P332134-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 | 573.3 |
| 2.5°   | 572.1 | 573.0 | 573.9 | 574.3 | 574.1 | 574.1 | 574.0 | 573.8 |
| 5°     | 571.2 | 572.3 | 573.4 | 573.9 | 573.7 | 573.6 | 573.5 | 573.3 |
| 7.5°   | 567.7 | 569.1 | 570.5 | 571.1 | 571.0 | 570.8 | 570.6 | 570.5 |
| 10°    | 564.3 | 565.7 | 567.0 | 567.5 | 567.3 | 567.0 | 566.7 | 566.5 |
| 12.5°  | 559.5 | 560.8 | 562.1 | 562.6 | 562.3 | 562.0 | 561.7 | 561.5 |
| 15°    | 550.5 | 551.9 | 553.3 | 553.9 | 553.8 | 553.6 | 553.5 | 553.3 |
| 17.5°  | 538.7 | 540.0 | 541.2 | 541.8 | 541.5 | 541.4 | 541.2 | 541.0 |
| 20°    | 530.3 | 531.5 | 532.7 | 533.5 | 533.5 | 533.7 | 533.9 | 533.9 |
| 22.5°  | 520.9 | 522.5 | 524.1 | 524.8 | 524.7 | 524.6 | 524.6 | 524.5 |
| 25°    | 505.1 | 507.0 | 508.7 | 509.6 | 509.6 | 509.6 | 509.6 | 509.6 |
| 27.5°  | 488.6 | 490.2 | 491.7 | 492.6 | 492.7 | 492.8 | 492.9 | 493.0 |
| 30°    | 477.4 | 479.0 | 480.7 | 481.5 | 481.5 | 481.5 | 481.5 | 481.5 |
| 32.5°  | 465.0 | 466.8 | 468.6 | 469.7 | 470.0 | 470.3 | 470.7 | 471.0 |
| 35°    | 446.9 | 449.1 | 451.1 | 452.4 | 453.0 | 453.6 | 454.1 | 454.7 |
| 37.5°  | 428.1 | 430.5 | 432.8 | 434.3 | 434.7 | 435.1 | 435.6 | 436.0 |
| 40°    | 415.6 | 418.0 | 420.4 | 421.8 | 422.4 | 423.0 | 423.5 | 424.0 |
| 42.5°  | 402.6 | 405.2 | 407.8 | 409.4 | 410.3 | 411.0 | 411.8 | 412.5 |
| 45°    | 383.1 | 385.7 | 388.4 | 390.3 | 391.3 | 392.5 | 393.6 | 394.7 |
| 47.5°  | 363.5 | 366.4 | 369.3 | 371.3 | 372.1 | 373.0 | 373.9 | 374.7 |
| 50°    | 349.8 | 353.1 | 356.3 | 358.3 | 359.3 | 360.3 | 361.3 | 362.2 |
| 52.5°  | 336.1 | 339.4 | 342.8 | 345.0 | 346.2 | 347.3 | 348.5 | 349.8 |
| 55°    | 315.4 | 319.1 | 322.9 | 325.3 | 326.4 | 327.5 | 328.6 | 329.8 |
| 57.5°  | 294.2 | 298.0 | 301.7 | 304.3 | 305.6 | 306.9 | 308.2 | 309.5 |
| 60°    | 279.5 | 283.3 | 287.2 | 289.9 | 291.5 | 292.9 | 294.5 | 296.0 |
| 62.5°  | 265.5 | 269.4 | 273.2 | 275.9 | 277.3 | 278.7 | 280.1 | 281.5 |
| 65°    | 243.1 | 247.3 | 251.5 | 254.3 | 255.7 | 257.1 | 258.4 | 259.8 |
| 67.5°  | 220.9 | 225.5 | 230.1 | 232.9 | 234.1 | 235.2 | 236.4 | 237.6 |
| 70°    | 206.3 | 210.7 | 215.2 | 218.0 | 219.4 | 220.8 | 222.2 | 223.6 |
| 72.5°  | 191.4 | 196.0 | 200.6 | 203.6 | 205.0 | 206.4 | 207.7 | 209.1 |
| 75°    | 169.0 | 173.7 | 178.2 | 181.3 | 183.0 | 184.7 | 186.3 | 188.0 |
| 77.5°  | 148.1 | 152.9 | 157.7 | 160.8 | 162.1 | 163.3 | 164.6 | 165.9 |
| 80°    | 134.4 | 139.1 | 143.8 | 146.8 | 148.2 | 149.6 | 151.0 | 152.4 |
| 82.5°  | 121.9 | 126.5 | 131.3 | 134.4 | 135.7 | 137.1 | 138.5 | 139.9 |
| 85°    | 104.4 | 109.1 | 113.8 | 116.8 | 118.2 | 119.6 | 121.0 | 122.4 |
| 87.5°  | 93.2  | 98.1  | 103.0 | 106.2 | 107.5 | 109.0 | 110.5 | 111.9 |
| 90°    | 101.1 | 106.6 | 112.0 | 115.6 | 117.4 | 119.1 | 120.8 | 122.6 |
| 92.5°  | 99.1  | 104.8 | 110.6 | 114.2 | 115.8 | 117.2 | 118.7 | 120.3 |
| 95°    | 98.4  | 104.0 | 109.5 | 113.0 | 114.4 | 115.8 | 117.2 | 118.5 |
| 97.5°  | 94.9  | 100.4 | 106.1 | 109.7 | 111.2 | 112.8 | 114.4 | 115.9 |
| 100°   | 92.3  | 97.8  | 103.3 | 106.8 | 108.4 | 110.0 | 111.5 | 113.1 |
| 102.5° | 104.0 | 103.5 | 102.8 | 103.4 | 105.1 | 106.8 | 108.5 | 110.2 |
| 105°   | 169.5 | 141.2 | 112.9 | 99.5  | 101.2 | 102.7 | 104.4 | 106.0 |
| 107.5° | 331.3 | 311.4 | 291.6 | 270.1 | 247.0 | 224.0 | 200.9 | 177.9 |
| 110°   | 404.5 | 402.1 | 399.7 | 386.0 | 361.1 | 336.2 | 311.3 | 286.4 |





TEST NUMBER: P332134-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 454.8  | 458.4  | 462.0  | 461.6  | 457.4  | 453.1  | 448.8  | 444.6  |
| 115°   | 513.5  | 518.6  | 523.7  | 527.3  | 529.0  | 530.9  | 532.7  | 534.6  |
| 117.5° | 566.0  | 570.7  | 575.4  | 578.5  | 579.7  | 580.9  | 582.1  | 583.3  |
| 120°   | 600.5  | 605.2  | 609.8  | 612.7  | 613.7  | 614.6  | 615.6  | 616.5  |
| 122.5° | 634.3  | 638.4  | 642.5  | 645.1  | 646.2  | 647.3  | 648.5  | 649.5  |
| 125°   | 681.7  | 684.9  | 688.2  | 690.6  | 691.9  | 693.2  | 694.6  | 695.9  |
| 127.5° | 729.1  | 732.5  | 735.8  | 737.8  | 738.3  | 738.9  | 739.5  | 740.0  |
| 130°   | 757.5  | 760.8  | 764.2  | 766.1  | 766.6  | 767.0  | 767.5  | 768.0  |
| 132.5° | 784.2  | 787.5  | 790.8  | 792.6  | 793.0  | 793.4  | 793.9  | 794.3  |
| 135°   | 825.1  | 828.2  | 831.2  | 832.8  | 832.9  | 833.1  | 833.2  | 833.4  |
| 137.5° | 861.3  | 864.4  | 867.4  | 869.1  | 869.4  | 869.8  | 870.1  | 870.4  |
| 140°   | 884.4  | 887.1  | 890.0  | 891.5  | 891.9  | 892.2  | 892.5  | 892.8  |
| 142.5° | 905.8  | 908.2  | 910.7  | 912.0  | 912.2  | 912.4  | 912.6  | 912.8  |
| 145°   | 937.3  | 938.8  | 940.3  | 941.3  | 941.8  | 942.4  | 942.9  | 943.5  |
| 147.5° | 965.7  | 966.5  | 967.1  | 967.3  | 966.9  | 966.6  | 966.3  | 966.0  |
| 150°   | 983.4  | 983.7  | 984.1  | 984.1  | 983.9  | 983.7  | 983.3  | 983.1  |
| 152.5° | 999.7  | 1000.4 | 1001.0 | 1000.9 | 1000.1 | 999.4  | 998.6  | 997.8  |
| 155°   | 1022.1 | 1023.0 | 1024.0 | 1023.9 | 1022.8 | 1021.7 | 1020.6 | 1019.5 |
| 157.5° | 1041.7 | 1042.8 | 1043.8 | 1043.7 | 1042.3 | 1040.9 | 1039.4 | 1038.0 |
| 160°   | 1052.8 | 1053.9 | 1055.0 | 1054.9 | 1053.6 | 1052.4 | 1051.1 | 1049.8 |
| 162.5° | 1062.9 | 1064.2 | 1065.4 | 1065.4 | 1064.4 | 1063.2 | 1062.1 | 1060.9 |
| 165°   | 1076.4 | 1077.9 | 1079.4 | 1079.5 | 1078.2 | 1076.9 | 1075.6 | 1074.4 |
| 167.5° | 1087.0 | 1088.4 | 1089.9 | 1089.9 | 1088.4 | 1087.0 | 1085.5 | 1084.0 |
| 170°   | 1092.8 | 1094.3 | 1095.8 | 1095.8 | 1094.3 | 1092.8 | 1091.4 | 1090.0 |
| 172.5° | 1096.8 | 1098.2 | 1099.7 | 1099.6 | 1098.0 | 1096.4 | 1094.8 | 1093.2 |
| 175°   | 1101.5 | 1102.8 | 1104.1 | 1104.0 | 1102.5 | 1101.1 | 1099.6 | 1098.1 |
| 177.5° | 1103.3 | 1104.4 | 1105.5 | 1105.5 | 1104.0 | 1102.5 | 1101.1 | 1099.6 |
| 180°   | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 |

(END OF REPORT)