

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: P331934-930

Luminaire Tested: **S123DIP-S560D805U930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331934-930  
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: S123DIP-S560D805U930-4F0-1E-UDD-F  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4508.7 lumens  
Efficiency: N/A  
Efficacy: 117.4 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: General Diffuse

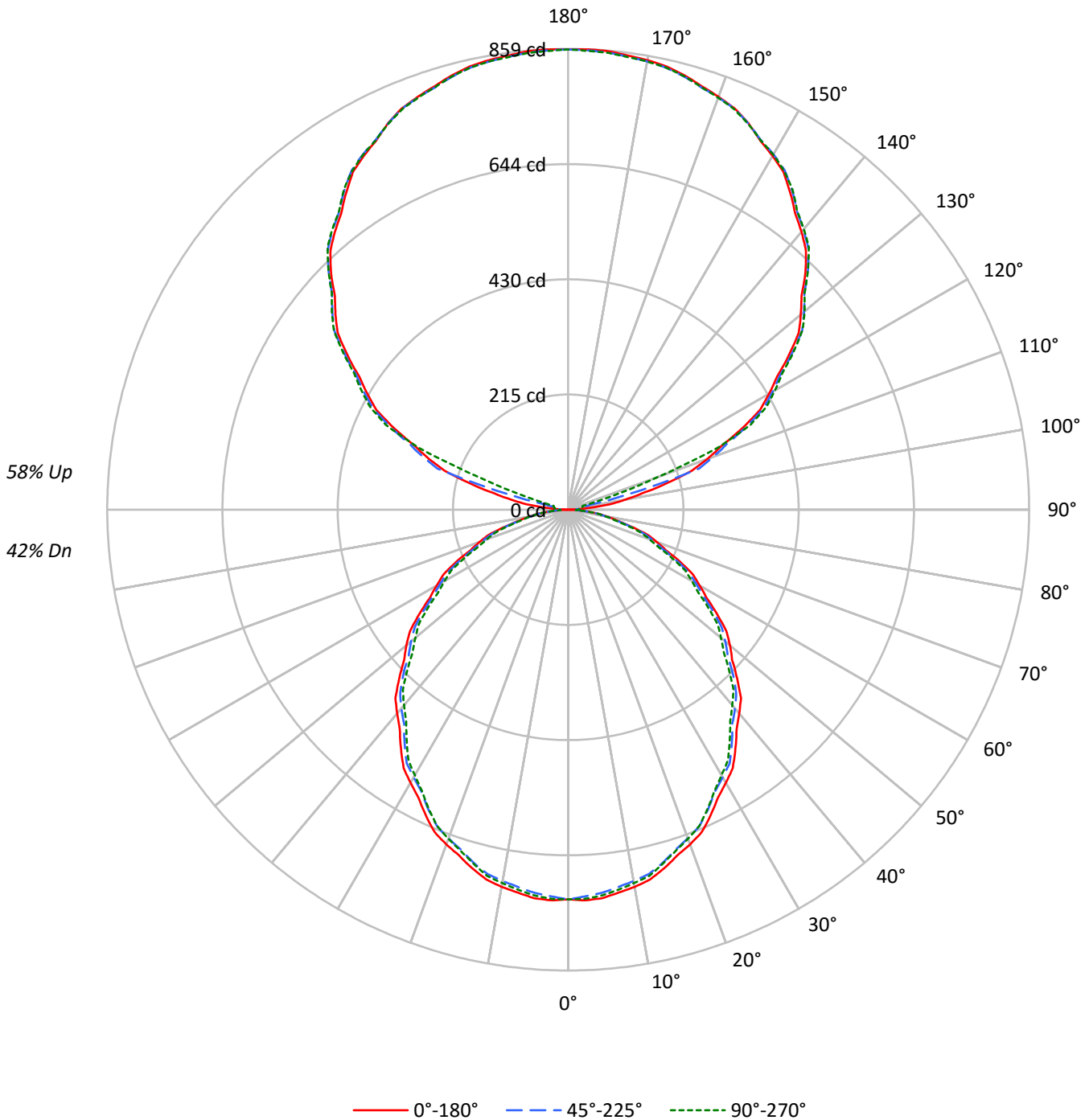
Input Watts (W): 38.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 |  | 63 | 63 | 63 |  | 49 | 49 | 49 | 42 |
| 1   | 96  | 92  | 88  | 84  | 87 | 84 | 80 | 77 | 69 | 67 | 65 |  | 55 | 54 | 52 |  | 43 | 42 | 41 | 35 |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 64 | 60 | 57 | 53 |  | 49 | 46 | 44 |  | 38 | 36 | 34 | 29 |
| 3   | 80  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 49 | 45 |  | 43 | 40 | 37 |  | 33 | 31 | 29 | 25 |
| 4   | 73  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 |  | 38 | 35 | 32 |  | 30 | 27 | 25 | 21 |
| 5   | 67  | 55  | 47  | 41  | 61 | 51 | 44 | 38 | 42 | 37 | 33 |  | 34 | 30 | 27 |  | 27 | 24 | 22 | 19 |
| 6   | 61  | 49  | 41  | 36  | 56 | 46 | 38 | 33 | 38 | 33 | 29 |  | 31 | 27 | 24 |  | 24 | 22 | 19 | 16 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 34 | 29 | 25 |  | 28 | 24 | 21 |  | 22 | 19 | 17 | 14 |
| 8   | 53  | 40  | 33  | 28  | 48 | 37 | 31 | 26 | 31 | 26 | 22 |  | 26 | 22 | 19 |  | 20 | 18 | 15 | 13 |
| 9   | 49  | 37  | 29  | 24  | 45 | 34 | 27 | 23 | 29 | 24 | 20 |  | 24 | 20 | 17 |  | 19 | 16 | 14 | 12 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 26 | 21 | 18 |  | 22 | 18 | 15 |  | 17 | 15 | 13 | 11 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7819 | 7819 | 7819 |
| 5°  | 7854 | 7747 | 7800 |
| 10° | 7803 | 7679 | 7726 |
| 15° | 7710 | 7592 | 7608 |
| 20° | 7605 | 7468 | 7475 |
| 25° | 7462 | 7321 | 7305 |
| 30° | 7305 | 7157 | 7102 |
| 35° | 7139 | 6984 | 6893 |
| 40° | 6968 | 6792 | 6687 |
| 45° | 6779 | 6616 | 6454 |
| 50° | 6589 | 6400 | 6223 |
| 55° | 6341 | 6176 | 5988 |
| 60° | 6090 | 5916 | 5726 |
| 65° | 5871 | 5631 | 5456 |
| 70° | 5542 | 5306 | 5070 |
| 75° | 5065 | 4882 | 4675 |
| 80° | 4568 | 4376 | 4339 |
| 85° | 4001 | 3853 | 3705 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 68.4   | 1.5       |
| 10°-20°   | 193.2  | 4.3       |
| 20°-30°   | 285.4  | 6.3       |
| 30°-40°   | 333.3  | 7.4       |
| 40°-50°   | 335.1  | 7.4       |
| 50°-60°   | 294.4  | 6.5       |
| 60°-70°   | 219.3  | 4.9       |
| 70°-80°   | 124.9  | 2.8       |
| 80°-90°   | 38.3   | 0.8       |
| 90°-100°  | 31.2   | 0.7       |
| 100°-110° | 148.7  | 3.3       |
| 110°-120° | 357.1  | 7.9       |
| 120°-130° | 454.7  | 10.1      |
| 130°-140° | 485.8  | 10.8      |
| 140°-150° | 454.3  | 10.1      |
| 150°-160° | 366.5  | 8.1       |
| 160°-170° | 236.5  | 5.2       |
| 170°-180° | 81.5   | 1.8       |
| 0°-30°    | 547.0  | 12.1      |
| 0°-40°    | 880.3  | 19.5      |
| 0°-60°    | 1509.9 | 33.5      |
| 0°-90°    | 1892.4 | 42.0      |
| 90°-120°  | 536.9  | 11.9      |
| 90°-150°  | 1931.8 | 42.8      |
| 90°-180°  | 2616.0 | 58.0      |
| 0°-180°   | 4508.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 726 | 726   | 726 | 726   | 726 |      |
| 5°   | 727 | 724   | 717 | 723   | 722 | 69   |
| 15°  | 692 | 689   | 681 | 686   | 683 | 195  |
| 25°  | 628 | 624   | 616 | 617   | 615 | 289  |
| 35°  | 543 | 539   | 532 | 528   | 525 | 340  |
| 45°  | 445 | 442   | 435 | 427   | 424 | 344  |
| 55°  | 338 | 337   | 329 | 322   | 319 | 303  |
| 65°  | 230 | 227   | 221 | 216   | 214 | 227  |
| 75°  | 122 | 119   | 117 | 114   | 112 | 130  |
| 85°  | 32  | 31    | 31  | 30    | 30  | 36   |
| 90°  | 1   | 7     | 15  | 18    | 19  | 4    |
| 95°  | 39  | 15    | 20  | 24    | 24  | 48   |
| 105° | 190 | 193   | 140 | 33    | 28  | 201  |
| 115° | 356 | 360   | 366 | 372   | 375 | 352  |
| 125° | 502 | 507   | 510 | 511   | 512 | 448  |
| 135° | 625 | 629   | 632 | 633   | 632 | 481  |
| 145° | 722 | 726   | 727 | 728   | 729 | 451  |
| 155° | 795 | 794   | 794 | 797   | 794 | 366  |
| 165° | 838 | 836   | 836 | 840   | 836 | 237  |
| 175° | 858 | 855   | 855 | 859   | 855 | 82   |
| 180° | 858 | 858   | 858 | 858   | 858 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 726.4 | 726.4 | 726.4 | 726.4 | 726.4 | 726.4 | 726.4 | 726.4 | 726.4 | 726.4 | 726.4 |
| 2.5°   | 728.8 | 728.4 | 728.0 | 727.5 | 727.1 | 726.2 | 725.0 | 723.7 | 722.6 | 721.4 | 722.4 |
| 5°     | 726.9 | 726.3 | 725.5 | 724.9 | 724.1 | 723.1 | 721.5 | 720.0 | 718.5 | 717.0 | 718.4 |
| 7.5°   | 719.8 | 719.2 | 718.4 | 717.8 | 717.1 | 715.9 | 714.4 | 712.7 | 711.2 | 709.6 | 710.9 |
| 10°    | 713.9 | 713.1 | 712.5 | 711.8 | 711.1 | 709.8 | 708.0 | 706.2 | 704.4 | 702.6 | 703.8 |
| 12.5°  | 705.9 | 705.2 | 704.7 | 704.1 | 703.5 | 702.4 | 700.7 | 699.0 | 697.3 | 695.6 | 696.5 |
| 15°    | 691.9 | 691.5 | 690.9 | 690.3 | 689.7 | 688.6 | 686.8 | 685.0 | 683.1 | 681.3 | 682.5 |
| 17.5°  | 675.9 | 675.1 | 674.4 | 673.7 | 672.9 | 671.7 | 669.9 | 668.1 | 666.3 | 664.5 | 665.3 |
| 20°    | 663.9 | 663.1 | 662.2 | 661.4 | 660.6 | 659.3 | 657.5 | 655.7 | 653.8 | 652.0 | 652.6 |
| 22.5°  | 650.4 | 649.5 | 648.7 | 647.9 | 647.0 | 645.7 | 643.9 | 642.1 | 640.3 | 638.5 | 639.0 |
| 25°    | 628.3 | 627.5 | 626.6 | 625.8 | 624.9 | 623.6 | 621.8 | 620.0 | 618.2 | 616.4 | 616.5 |
| 27.5°  | 604.7 | 603.9 | 603.1 | 602.3 | 601.4 | 600.1 | 598.1 | 596.2 | 594.3 | 592.3 | 592.4 |
| 30°    | 587.7 | 587.0 | 586.3 | 585.6 | 584.9 | 583.6 | 581.6 | 579.7 | 577.8 | 575.8 | 575.8 |
| 32.5°  | 570.7 | 569.8 | 568.8 | 567.9 | 567.0 | 565.8 | 564.4 | 562.8 | 561.3 | 559.9 | 559.1 |
| 35°    | 543.3 | 542.5 | 541.7 | 540.9 | 540.1 | 538.7 | 536.9 | 535.1 | 533.3 | 531.5 | 530.7 |
| 37.5°  | 515.4 | 514.3 | 513.2 | 512.2 | 511.1 | 509.7 | 507.8 | 506.1 | 504.2 | 502.4 | 501.4 |
| 40°    | 495.9 | 495.0 | 494.2 | 493.4 | 492.5 | 491.1 | 489.2 | 487.3 | 485.3 | 483.4 | 482.2 |
| 42.5°  | 476.4 | 475.5 | 474.5 | 473.5 | 472.6 | 471.2 | 469.2 | 467.3 | 465.4 | 463.4 | 462.3 |
| 45°    | 445.3 | 444.7 | 444.2 | 443.6 | 443.0 | 441.9 | 440.1 | 438.3 | 436.5 | 434.6 | 433.0 |
| 47.5°  | 414.4 | 413.6 | 412.9 | 412.1 | 411.2 | 409.9 | 408.3 | 406.6 | 404.9 | 403.2 | 401.5 |
| 50°    | 393.5 | 392.7 | 392.1 | 391.3 | 390.7 | 389.5 | 387.6 | 385.8 | 384.0 | 382.2 | 380.7 |
| 52.5°  | 371.5 | 371.0 | 370.6 | 370.1 | 369.6 | 368.4 | 366.5 | 364.6 | 362.6 | 360.8 | 359.5 |
| 55°    | 337.9 | 337.7 | 337.6 | 337.5 | 337.3 | 336.3 | 334.5 | 332.7 | 330.9 | 329.1 | 327.6 |
| 57.5°  | 305.9 | 305.4 | 304.9 | 304.5 | 304.0 | 303.0 | 301.6 | 300.2 | 298.7 | 297.3 | 296.0 |
| 60°    | 282.9 | 282.7 | 282.7 | 282.5 | 282.3 | 281.4 | 279.8 | 278.1 | 276.5 | 274.8 | 273.5 |
| 62.5°  | 262.4 | 262.0 | 261.7 | 261.4 | 261.0 | 260.0 | 258.3 | 256.7 | 254.9 | 253.3 | 252.1 |
| 65°    | 230.5 | 229.8 | 229.1 | 228.4 | 227.7 | 226.7 | 225.3 | 223.9 | 222.5 | 221.1 | 220.0 |
| 67.5°  | 196.6 | 196.0 | 195.3 | 194.8 | 194.1 | 193.3 | 192.2 | 191.2 | 190.1 | 189.1 | 188.2 |
| 70°    | 176.1 | 175.3 | 174.5 | 173.7 | 172.8 | 171.9 | 171.1 | 170.3 | 169.4 | 168.6 | 167.6 |
| 72.5°  | 154.7 | 154.0 | 153.4 | 152.8 | 152.2 | 151.4 | 150.5 | 149.5 | 148.5 | 147.7 | 146.8 |
| 75°    | 121.8 | 121.2 | 120.7 | 120.1 | 119.6 | 119.1 | 118.6 | 118.2 | 117.8 | 117.4 | 116.8 |
| 77.5°  | 92.7  | 92.4  | 92.0  | 91.8  | 91.5  | 91.1  | 90.6  | 90.1  | 89.5  | 89.0  | 88.6  |
| 80°    | 73.7  | 73.3  | 72.9  | 72.5  | 72.0  | 71.7  | 71.4  | 71.1  | 70.8  | 70.6  | 70.4  |
| 82.5°  | 55.2  | 55.1  | 55.0  | 55.0  | 54.9  | 54.8  | 54.8  | 54.7  | 54.6  | 54.6  | 54.3  |
| 85°    | 32.4  | 32.2  | 32.0  | 31.6  | 31.4  | 31.2  | 31.2  | 31.2  | 31.2  | 31.2  | 31.0  |
| 87.5°  | 13.1  | 13.0  | 13.0  | 13.0  | 12.9  | 13.0  | 13.3  | 13.5  | 13.8  | 14.0  | 14.0  |
| 90°    | 0.7   | 2.0   | 3.5   | 4.9   | 6.3   | 7.9   | 9.8   | 11.6  | 13.5  | 15.3  | 15.9  |
| 92.5°  | 11.8  | 11.5  | 11.1  | 10.7  | 10.3  | 10.8  | 12.1  | 13.5  | 14.9  | 16.3  | 17.2  |
| 95°    | 38.9  | 33.1  | 27.2  | 21.4  | 15.7  | 13.5  | 15.1  | 16.6  | 18.2  | 19.7  | 20.8  |
| 97.5°  | 78.1  | 75.6  | 73.0  | 70.4  | 67.8  | 61.3  | 51.1  | 40.9  | 30.7  | 20.5  | 21.7  |
| 100°   | 107.7 | 110.6 | 113.4 | 116.2 | 119.0 | 109.4 | 87.3  | 65.2  | 43.1  | 21.0  | 22.2  |
| 102.5° | 141.4 | 143.4 | 145.4 | 147.5 | 149.5 | 138.5 | 114.4 | 90.2  | 66.0  | 41.9  | 38.4  |
| 105°   | 190.0 | 191.5 | 193.1 | 194.6 | 196.2 | 190.6 | 177.8 | 165.1 | 152.3 | 139.6 | 114.5 |
| 107.5° | 241.2 | 242.5 | 243.7 | 244.9 | 246.1 | 247.8 | 249.8 | 251.8 | 253.8 | 255.8 | 237.5 |
| 110°   | 275.3 | 276.5 | 277.6 | 278.8 | 279.9 | 281.2 | 282.8 | 284.4 | 285.9 | 287.5 | 282.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 308.0 | 309.0 | 310.1 | 311.0 | 312.1 | 313.3 | 315.0 | 316.5 | 318.0 | 319.6 | 319.7 |
| 115°   | 356.3 | 357.2 | 358.0 | 358.9 | 359.7 | 360.8 | 362.1 | 363.3 | 364.6 | 365.9 | 367.3 |
| 117.5° | 403.1 | 404.1 | 405.2 | 406.3 | 407.2 | 408.1 | 408.8 | 409.4 | 410.1 | 410.7 | 411.9 |
| 120°   | 432.2 | 433.4 | 434.7 | 435.9 | 437.2 | 438.1 | 438.5 | 439.0 | 439.4 | 439.8 | 440.9 |
| 122.5° | 461.7 | 462.8 | 463.8 | 464.9 | 465.9 | 466.7 | 467.2 | 467.8 | 468.3 | 468.9 | 469.7 |
| 125°   | 502.3 | 503.4 | 504.5 | 505.6 | 506.8 | 507.7 | 508.3 | 508.7 | 509.3 | 509.9 | 510.2 |
| 127.5° | 541.5 | 542.7 | 543.8 | 544.9 | 546.1 | 547.0 | 547.6 | 548.4 | 549.0 | 549.7 | 550.2 |
| 130°   | 566.0 | 567.1 | 568.3 | 569.4 | 570.5 | 571.4 | 571.9 | 572.5 | 573.1 | 573.6 | 574.2 |
| 132.5° | 589.5 | 590.6 | 591.7 | 592.9 | 594.0 | 594.8 | 595.3 | 595.7 | 596.1 | 596.6 | 597.2 |
| 135°   | 625.3 | 626.1 | 627.0 | 627.9 | 628.7 | 629.4 | 630.0 | 630.6 | 631.1 | 631.7 | 632.1 |
| 137.5° | 655.9 | 657.0 | 658.0 | 659.1 | 660.1 | 660.9 | 661.2 | 661.5 | 661.8 | 662.1 | 662.8 |
| 140°   | 676.3 | 677.1 | 678.0 | 678.8 | 679.7 | 680.3 | 680.8 | 681.2 | 681.6 | 682.0 | 682.6 |
| 142.5° | 695.1 | 696.0 | 696.8 | 697.7 | 698.5 | 699.2 | 699.6 | 700.0 | 700.4 | 700.9 | 701.3 |
| 145°   | 721.5 | 722.5 | 723.5 | 724.5 | 725.5 | 726.1 | 726.4 | 726.7 | 727.0 | 727.2 | 727.6 |
| 147.5° | 746.4 | 747.1 | 747.7 | 748.4 | 749.0 | 749.5 | 749.7 | 750.0 | 750.3 | 750.6 | 750.9 |
| 150°   | 761.7 | 762.1 | 762.5 | 763.0 | 763.4 | 763.8 | 764.0 | 764.3 | 764.6 | 764.9 | 765.2 |
| 152.5° | 775.4 | 775.7 | 775.8 | 776.1 | 776.2 | 776.4 | 776.6 | 776.7 | 777.0 | 777.1 | 777.6 |
| 155°   | 794.8 | 794.6 | 794.3 | 794.0 | 793.7 | 793.6 | 793.8 | 793.9 | 794.0 | 794.2 | 794.9 |
| 157.5° | 809.8 | 809.8 | 809.8 | 809.8 | 809.8 | 809.7 | 809.5 | 809.4 | 809.3 | 809.1 | 810.0 |
| 160°   | 819.0 | 818.9 | 818.8 | 818.6 | 818.5 | 818.3 | 818.2 | 818.1 | 817.9 | 817.7 | 818.6 |
| 162.5° | 827.7 | 827.4 | 827.0 | 826.6 | 826.2 | 826.0 | 825.8 | 825.7 | 825.6 | 825.4 | 826.4 |
| 165°   | 838.2 | 837.7 | 837.3 | 836.9 | 836.5 | 836.2 | 836.1 | 835.9 | 835.8 | 835.6 | 836.7 |
| 167.5° | 846.4 | 845.8 | 845.2 | 844.7 | 844.1 | 843.8 | 843.8 | 843.8 | 843.8 | 843.8 | 844.9 |
| 170°   | 850.9 | 850.4 | 849.8 | 849.2 | 848.6 | 848.4 | 848.4 | 848.4 | 848.4 | 848.4 | 849.5 |
| 172.5° | 853.9 | 853.3 | 852.6 | 851.9 | 851.3 | 851.0 | 851.1 | 851.2 | 851.3 | 851.4 | 852.6 |
| 175°   | 857.9 | 857.2 | 856.6 | 855.8 | 855.1 | 854.8 | 854.9 | 855.1 | 855.2 | 855.4 | 856.4 |
| 177.5° | 858.9 | 858.4 | 857.9 | 857.3 | 856.7 | 856.5 | 856.6 | 856.7 | 856.8 | 856.9 | 857.9 |
| 180°   | 857.9 | 857.9 | 857.9 | 857.9 | 857.9 | 857.9 | 857.9 | 857.9 | 857.9 | 857.9 | 857.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 726.4 | 726.4 | 726.4 | 726.4 | 726.4 | 726.4 | 726.4 | 726.4 |
| 2.5°   | 723.6 | 724.6 | 725.8 | 726.3 | 726.2 | 726.0 | 725.9 | 725.9 |
| 5°     | 719.7 | 721.1 | 722.5 | 723.1 | 722.8 | 722.5 | 722.3 | 721.9 |
| 7.5°   | 712.1 | 713.3 | 714.6 | 715.1 | 714.9 | 714.8 | 714.6 | 714.4 |
| 10°    | 705.1 | 706.4 | 707.6 | 708.1 | 707.8 | 707.5 | 707.3 | 706.9 |
| 12.5°  | 697.4 | 698.4 | 699.3 | 699.6 | 699.4 | 699.3 | 699.1 | 699.0 |
| 15°    | 683.6 | 684.7 | 685.8 | 685.9 | 685.1 | 684.3 | 683.5 | 682.7 |
| 17.5°  | 666.1 | 666.8 | 667.6 | 667.8 | 667.6 | 667.2 | 666.9 | 666.6 |
| 20°    | 653.1 | 653.7 | 654.2 | 654.3 | 653.9 | 653.5 | 653.1 | 652.6 |
| 22.5°  | 639.4 | 639.8 | 640.3 | 640.3 | 639.8 | 639.2 | 638.7 | 638.1 |
| 25°    | 616.7 | 616.9 | 616.9 | 616.9 | 616.4 | 616.0 | 615.6 | 615.1 |
| 27.5°  | 592.6 | 592.6 | 592.7 | 592.6 | 592.0 | 591.5 | 590.9 | 590.4 |
| 30°    | 575.8 | 575.8 | 575.8 | 575.4 | 574.4 | 573.4 | 572.4 | 571.4 |
| 32.5°  | 558.3 | 557.5 | 556.7 | 556.0 | 555.5 | 555.1 | 554.5 | 554.0 |
| 35°    | 529.8 | 529.0 | 528.2 | 527.4 | 526.7 | 526.0 | 525.3 | 524.6 |
| 37.5°  | 500.3 | 499.4 | 498.4 | 497.7 | 497.3 | 496.8 | 496.4 | 495.9 |
| 40°    | 481.2 | 480.0 | 479.0 | 478.1 | 477.5 | 477.0 | 476.5 | 475.9 |
| 42.5°  | 461.2 | 460.1 | 458.9 | 458.1 | 457.5 | 457.1 | 456.5 | 455.9 |
| 45°    | 431.4 | 429.7 | 428.0 | 426.8 | 426.2 | 425.4 | 424.8 | 424.0 |
| 47.5°  | 399.9 | 398.3 | 396.6 | 395.5 | 394.9 | 394.3 | 393.7 | 393.1 |
| 50°    | 379.2 | 377.6 | 376.1 | 375.0 | 374.1 | 373.2 | 372.4 | 371.6 |
| 52.5°  | 358.2 | 356.9 | 355.6 | 354.4 | 353.6 | 352.8 | 352.0 | 351.1 |
| 55°    | 326.0 | 324.6 | 323.0 | 321.9 | 321.2 | 320.5 | 319.8 | 319.1 |
| 57.5°  | 294.6 | 293.2 | 291.9 | 290.7 | 289.9 | 289.2 | 288.4 | 287.6 |
| 60°    | 272.3 | 271.1 | 269.8 | 268.8 | 268.2 | 267.4 | 266.8 | 266.0 |
| 62.5°  | 250.8 | 249.6 | 248.3 | 247.4 | 247.0 | 246.5 | 246.1 | 245.6 |
| 65°    | 218.8 | 217.8 | 216.6 | 215.9 | 215.5 | 215.1 | 214.7 | 214.2 |
| 67.5°  | 187.2 | 186.2 | 185.2 | 184.4 | 183.8 | 183.3 | 182.7 | 182.1 |
| 70°    | 166.6 | 165.8 | 164.8 | 163.9 | 163.2 | 162.5 | 161.8 | 161.1 |
| 72.5°  | 145.9 | 145.0 | 144.2 | 143.6 | 143.2 | 142.8 | 142.5 | 142.1 |
| 75°    | 116.0 | 115.4 | 114.6 | 114.1 | 113.7 | 113.2 | 112.8 | 112.4 |
| 77.5°  | 88.1  | 87.6  | 87.2  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  |
| 80°    | 70.3  | 70.1  | 70.0  | 70.0  | 70.0  | 70.0  | 70.0  | 70.0  |
| 82.5°  | 54.1  | 53.8  | 53.6  | 53.4  | 53.3  | 53.2  | 53.1  | 53.0  |
| 85°    | 30.7  | 30.4  | 30.1  | 30.0  | 30.0  | 30.0  | 30.0  | 30.0  |
| 87.5°  | 14.0  | 14.0  | 14.0  | 14.1  | 14.2  | 14.2  | 14.3  | 14.3  |
| 90°    | 16.5  | 17.0  | 17.5  | 18.0  | 18.3  | 18.6  | 18.8  | 19.2  |
| 92.5°  | 18.1  | 19.0  | 20.0  | 20.5  | 20.6  | 20.8  | 21.0  | 21.2  |
| 95°    | 21.8  | 22.7  | 23.7  | 24.2  | 24.2  | 24.2  | 24.2  | 24.2  |
| 97.5°  | 22.8  | 23.9  | 25.0  | 25.7  | 25.8  | 26.0  | 26.1  | 26.3  |
| 100°   | 23.3  | 24.5  | 25.6  | 26.2  | 26.3  | 26.5  | 26.7  | 26.7  |
| 102.5° | 34.9  | 31.4  | 27.9  | 26.3  | 26.5  | 26.7  | 27.0  | 27.3  |
| 105°   | 89.4  | 64.4  | 39.3  | 26.9  | 27.2  | 27.5  | 27.8  | 28.0  |
| 107.5° | 219.1 | 200.7 | 182.3 | 163.6 | 144.8 | 125.9 | 107.0 | 88.1  |
| 110°   | 278.1 | 273.5 | 268.8 | 256.3 | 236.0 | 215.8 | 195.5 | 175.3 |





TEST NUMBER: P331934-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 319.8 | 319.8 | 319.9 | 317.8 | 313.6 | 309.2 | 305.0 | 300.8 |
| 115°   | 368.7 | 370.1 | 371.5 | 372.5 | 373.1 | 373.7 | 374.2 | 374.8 |
| 117.5° | 413.0 | 414.2 | 415.2 | 415.9 | 416.0 | 416.1 | 416.2 | 416.4 |
| 120°   | 442.1 | 443.2 | 444.3 | 444.9 | 444.9 | 444.9 | 444.9 | 444.9 |
| 122.5° | 470.4 | 471.2 | 472.1 | 472.5 | 472.6 | 472.7 | 472.9 | 473.0 |
| 125°   | 510.5 | 510.8 | 511.0 | 511.4 | 511.6 | 511.9 | 512.2 | 512.5 |
| 127.5° | 550.6 | 551.1 | 551.5 | 551.5 | 551.3 | 551.1 | 550.7 | 550.5 |
| 130°   | 574.8 | 575.4 | 575.9 | 576.1 | 575.8 | 575.5 | 575.2 | 574.9 |
| 132.5° | 597.7 | 598.3 | 598.8 | 598.9 | 598.6 | 598.2 | 597.8 | 597.4 |
| 135°   | 632.5 | 632.9 | 633.3 | 633.3 | 632.9 | 632.5 | 632.1 | 631.7 |
| 137.5° | 663.5 | 664.1 | 664.9 | 665.0 | 664.8 | 664.5 | 664.2 | 663.9 |
| 140°   | 683.1 | 683.7 | 684.3 | 684.4 | 684.1 | 683.9 | 683.5 | 683.3 |
| 142.5° | 701.8 | 702.2 | 702.7 | 702.7 | 702.3 | 701.9 | 701.6 | 701.2 |
| 145°   | 727.8 | 728.1 | 728.4 | 728.6 | 728.6 | 728.6 | 728.6 | 728.6 |
| 147.5° | 751.1 | 751.5 | 751.7 | 751.5 | 750.9 | 750.2 | 749.6 | 748.9 |
| 150°   | 765.4 | 765.7 | 766.0 | 766.0 | 765.5 | 765.1 | 764.7 | 764.3 |
| 152.5° | 778.1 | 778.6 | 779.2 | 779.1 | 778.4 | 777.8 | 777.1 | 776.5 |
| 155°   | 795.7 | 796.3 | 797.0 | 797.0 | 796.1 | 795.2 | 794.4 | 793.5 |
| 157.5° | 810.8 | 811.6 | 812.5 | 812.4 | 811.3 | 810.2 | 809.1 | 808.0 |
| 160°   | 819.5 | 820.4 | 821.2 | 821.1 | 820.1 | 819.1 | 818.2 | 817.2 |
| 162.5° | 827.4 | 828.3 | 829.2 | 829.3 | 828.4 | 827.5 | 826.7 | 825.8 |
| 165°   | 837.9 | 839.0 | 840.2 | 840.2 | 839.3 | 838.2 | 837.2 | 836.3 |
| 167.5° | 846.0 | 847.2 | 848.3 | 848.3 | 847.2 | 846.0 | 844.9 | 843.8 |
| 170°   | 850.6 | 851.7 | 852.9 | 852.9 | 851.7 | 850.6 | 849.5 | 848.4 |
| 172.5° | 853.7 | 854.8 | 856.0 | 855.9 | 854.7 | 853.5 | 852.2 | 850.9 |
| 175°   | 857.4 | 858.3 | 859.3 | 859.2 | 858.2 | 857.0 | 855.9 | 854.8 |
| 177.5° | 858.8 | 859.7 | 860.5 | 860.5 | 859.3 | 858.2 | 857.0 | 855.9 |
| 180°   | 857.9 | 857.9 | 857.9 | 857.9 | 857.9 | 857.9 | 857.9 | 857.9 |

(END OF REPORT)