

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: P333175-930

Luminaire Tested: **S125DIP-S610D590U930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333175-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIP-S610D590U930-4F0-1E-UDD-F  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 610 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3965.7 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: General Diffuse

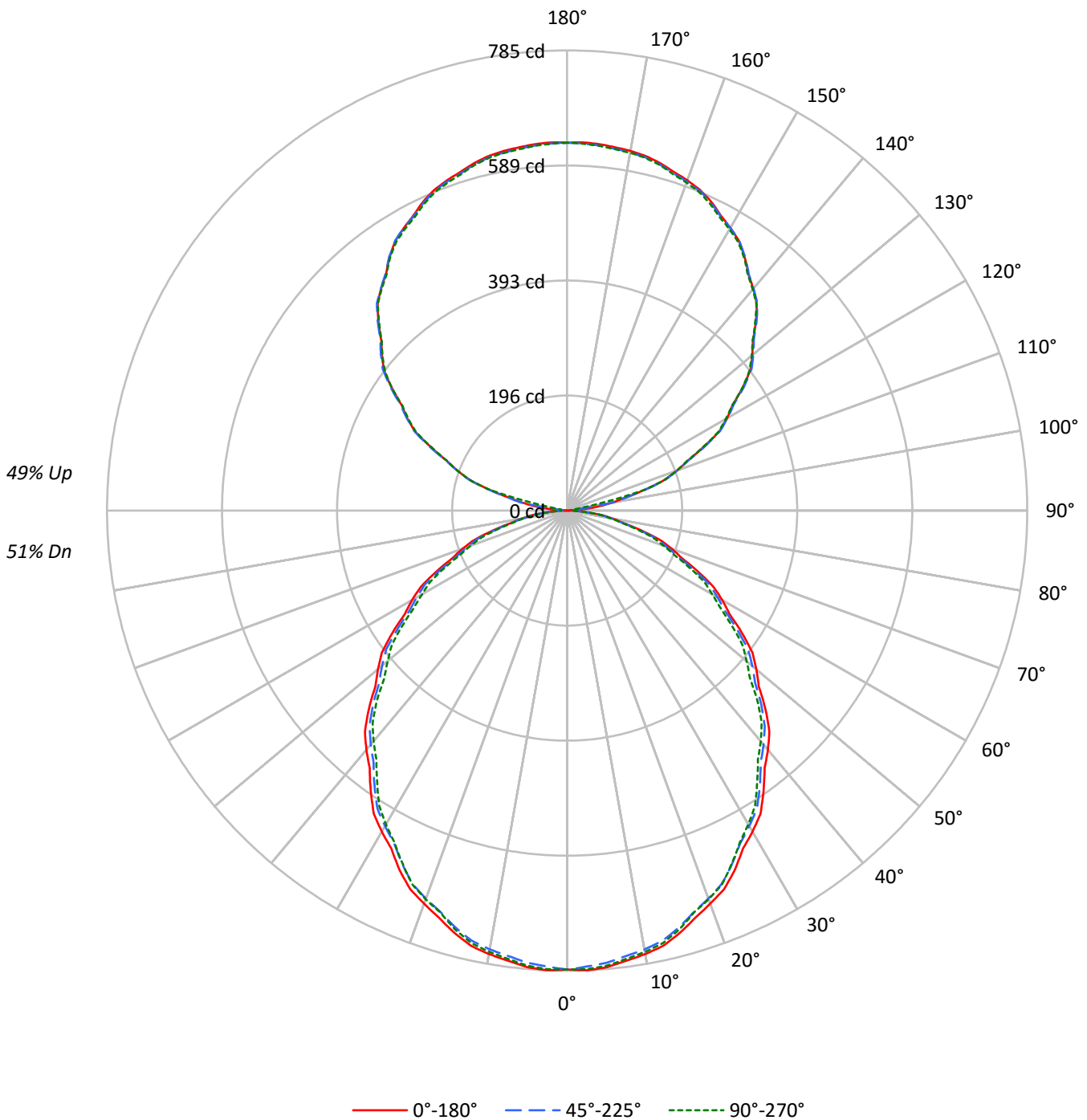
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333175-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-F

### 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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 |  | 70 | 70 | 70 |  | 57 | 57 | 57 | 51 |
| 1   | 98  | 94  | 90  | 86  | 90 | 87 | 83 | 80 | 74 | 71 | 69 |  | 62 | 60 | 58 |  | 51 | 49 | 48 | 43 |
| 2   | 89  | 82  | 76  | 70  | 82 | 76 | 70 | 66 | 65 | 60 | 57 |  | 54 | 51 | 49 |  | 45 | 42 | 41 | 36 |
| 3   | 81  | 72  | 64  | 59  | 75 | 67 | 60 | 55 | 57 | 52 | 48 |  | 48 | 44 | 41 |  | 39 | 37 | 35 | 31 |
| 4   | 74  | 64  | 56  | 50  | 68 | 59 | 52 | 47 | 51 | 45 | 41 |  | 43 | 39 | 35 |  | 35 | 32 | 30 | 26 |
| 5   | 68  | 57  | 48  | 42  | 63 | 53 | 45 | 40 | 45 | 40 | 35 |  | 38 | 34 | 31 |  | 32 | 29 | 26 | 23 |
| 6   | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 41 | 35 | 31 |  | 35 | 30 | 27 |  | 29 | 25 | 23 | 20 |
| 7   | 58  | 46  | 38  | 32  | 54 | 43 | 36 | 30 | 37 | 31 | 27 |  | 31 | 27 | 24 |  | 26 | 23 | 20 | 18 |
| 8   | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 34 | 28 | 24 |  | 29 | 24 | 21 |  | 24 | 21 | 18 | 16 |
| 9   | 50  | 38  | 30  | 25  | 46 | 36 | 29 | 24 | 31 | 25 | 22 |  | 26 | 22 | 19 |  | 22 | 19 | 16 | 14 |
| 10  | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 |  | 24 | 20 | 17 |  | 21 | 17 | 15 | 13 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5057 | 5057 | 5057 |
| 5°  | 5068 | 5020 | 5052 |
| 10° | 5037 | 4985 | 5013 |
| 15° | 4983 | 4924 | 4945 |
| 20° | 4904 | 4841 | 4849 |
| 25° | 4821 | 4741 | 4737 |
| 30° | 4716 | 4633 | 4610 |
| 35° | 4606 | 4518 | 4454 |
| 40° | 4491 | 4392 | 4330 |
| 45° | 4369 | 4277 | 4192 |
| 50° | 4233 | 4140 | 4015 |
| 55° | 4102 | 3983 | 3871 |
| 60° | 3945 | 3825 | 3689 |
| 65° | 3758 | 3636 | 3512 |
| 70° | 3580 | 3416 | 3299 |
| 75° | 3261 | 3154 | 3047 |
| 80° | 2901 | 2856 | 2786 |
| 85° | 2527 | 2571 | 2438 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.8   | 1.9       |
| 10°-20°   | 208.5  | 5.3       |
| 20°-30°   | 307.9  | 7.8       |
| 30°-40°   | 359.3  | 9.1       |
| 40°-50°   | 360.9  | 9.1       |
| 50°-60°   | 316.8  | 8.0       |
| 60°-70°   | 236.0  | 6.0       |
| 70°-80°   | 135.0  | 3.4       |
| 80°-90°   | 40.6   | 1.0       |
| 90°-100°  | 22.8   | 0.6       |
| 100°-110° | 140.5  | 3.5       |
| 110°-120° | 254.9  | 6.4       |
| 120°-130° | 327.1  | 8.2       |
| 130°-140° | 351.8  | 8.9       |
| 140°-150° | 330.3  | 8.3       |
| 150°-160° | 267.1  | 6.7       |
| 160°-170° | 172.8  | 4.4       |
| 170°-180° | 59.6   | 1.5       |
| 0°-30°    | 590.3  | 14.9      |
| 0°-40°    | 949.6  | 23.9      |
| 0°-60°    | 1627.2 | 41.0      |
| 0°-90°    | 2038.8 | 51.4      |
| 90°-120°  | 418.2  | 10.5      |
| 90°-150°  | 1427.4 | 36.0      |
| 90°-180°  | 1927.0 | 48.6      |
| 0°-180°   | 3965.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 783 | 783   | 783 | 783   | 783 |      |
| 5°   | 782 | 780   | 774 | 780   | 779 | 74   |
| 15°  | 745 | 743   | 736 | 739   | 740 | 210  |
| 25°  | 676 | 673   | 665 | 666   | 665 | 311  |
| 35°  | 584 | 581   | 573 | 570   | 565 | 365  |
| 45°  | 478 | 476   | 468 | 461   | 459 | 368  |
| 55°  | 364 | 362   | 354 | 348   | 344 | 325  |
| 65°  | 246 | 244   | 238 | 232   | 230 | 244  |
| 75°  | 131 | 129   | 126 | 124   | 122 | 139  |
| 85°  | 34  | 35    | 35  | 34    | 33  | 38   |
| 90°  | 0   | 4     | 7   | 10    | 11  | 3    |
| 95°  | 26  | 24    | 7   | 10    | 10  | 34   |
| 105° | 137 | 138   | 139 | 139   | 138 | 145  |
| 115° | 257 | 259   | 260 | 258   | 255 | 254  |
| 125° | 365 | 368   | 368 | 367   | 365 | 326  |
| 135° | 455 | 458   | 457 | 456   | 454 | 351  |
| 145° | 528 | 529   | 529 | 529   | 526 | 330  |
| 155° | 582 | 579   | 580 | 581   | 577 | 268  |
| 165° | 614 | 611   | 611 | 614   | 610 | 173  |
| 175° | 628 | 625   | 625 | 628   | 625 | 60   |
| 180° | 628 | 628   | 628 | 628   | 628 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 |
| 2.5°   | 785.0 | 784.6 | 784.3 | 784.0 | 783.7 | 782.9 | 781.9 | 780.7 | 779.7 | 778.5 | 779.7 |
| 5°     | 781.8 | 781.5 | 781.2 | 780.9 | 780.6 | 779.8 | 778.4 | 777.1 | 775.7 | 774.3 | 775.6 |
| 7.5°   | 774.5 | 774.3 | 774.0 | 773.7 | 773.5 | 772.6 | 771.0 | 769.6 | 768.0 | 766.5 | 767.7 |
| 10°    | 768.1 | 767.8 | 767.6 | 767.3 | 767.0 | 766.1 | 764.6 | 763.1 | 761.6 | 760.1 | 761.2 |
| 12.5°  | 760.2 | 759.7 | 759.2 | 758.7 | 758.2 | 757.2 | 755.9 | 754.5 | 753.0 | 751.6 | 752.5 |
| 15°    | 745.2 | 744.8 | 744.4 | 744.0 | 743.6 | 742.6 | 741.1 | 739.6 | 738.0 | 736.5 | 737.2 |
| 17.5°  | 728.0 | 727.4 | 726.8 | 726.2 | 725.5 | 724.5 | 722.9 | 721.3 | 719.7 | 718.2 | 719.0 |
| 20°    | 713.6 | 713.3 | 713.1 | 712.8 | 712.5 | 711.5 | 709.7 | 707.9 | 706.1 | 704.3 | 705.3 |
| 22.5°  | 699.2 | 698.7 | 698.2 | 697.7 | 697.2 | 696.2 | 694.5 | 692.8 | 691.1 | 689.4 | 690.1 |
| 25°    | 676.5 | 675.7 | 675.1 | 674.4 | 673.7 | 672.5 | 670.7 | 668.9 | 667.1 | 665.3 | 665.6 |
| 27.5°  | 649.8 | 649.4 | 649.0 | 648.6 | 648.2 | 647.0 | 645.1 | 643.4 | 641.5 | 639.7 | 639.7 |
| 30°    | 632.4 | 632.0 | 631.6 | 631.2 | 630.8 | 629.6 | 627.5 | 625.4 | 623.4 | 621.3 | 621.0 |
| 32.5°  | 613.6 | 613.0 | 612.4 | 611.7 | 611.1 | 609.8 | 608.1 | 606.2 | 604.3 | 602.5 | 602.0 |
| 35°    | 584.2 | 583.6 | 583.0 | 582.5 | 582.0 | 580.7 | 578.8 | 576.8 | 574.9 | 573.0 | 572.3 |
| 37.5°  | 553.5 | 552.9 | 552.2 | 551.5 | 550.8 | 549.5 | 547.7 | 545.9 | 544.0 | 542.3 | 541.3 |
| 40°    | 532.7 | 532.1 | 531.3 | 530.7 | 529.9 | 528.6 | 526.8 | 524.8 | 522.9 | 521.0 | 519.8 |
| 42.5°  | 510.5 | 509.9 | 509.2 | 508.7 | 508.1 | 506.9 | 504.9 | 503.0 | 501.1 | 499.1 | 498.1 |
| 45°    | 478.3 | 477.7 | 477.1 | 476.5 | 476.1 | 474.9 | 473.3 | 471.7 | 469.9 | 468.3 | 466.7 |
| 47.5°  | 443.5 | 443.5 | 443.6 | 443.6 | 443.6 | 442.6 | 440.7 | 438.7 | 436.8 | 434.7 | 433.1 |
| 50°    | 421.3 | 420.8 | 420.4 | 420.0 | 419.6 | 418.6 | 416.9 | 415.2 | 413.6 | 412.0 | 410.2 |
| 52.5°  | 398.4 | 398.1 | 397.9 | 397.5 | 397.2 | 396.2 | 394.4 | 392.6 | 390.9 | 389.1 | 387.6 |
| 55°    | 364.3 | 363.8 | 363.4 | 363.0 | 362.6 | 361.4 | 359.5 | 357.6 | 355.6 | 353.7 | 352.5 |
| 57.5°  | 328.2 | 328.0 | 327.8 | 327.5 | 327.3 | 326.4 | 324.7 | 323.1 | 321.5 | 319.9 | 318.3 |
| 60°    | 305.4 | 304.8 | 304.3 | 303.7 | 303.2 | 302.1 | 300.7 | 299.1 | 297.6 | 296.1 | 294.7 |
| 62.5°  | 281.6 | 281.2 | 280.7 | 280.3 | 279.8 | 279.0 | 277.7 | 276.4 | 275.1 | 273.8 | 272.3 |
| 65°    | 245.9 | 245.6 | 245.4 | 245.1 | 244.8 | 243.9 | 242.4 | 240.9 | 239.4 | 237.9 | 236.6 |
| 67.5°  | 211.3 | 210.8 | 210.2 | 209.6 | 209.0 | 208.2 | 207.1 | 205.9 | 204.8 | 203.7 | 202.6 |
| 70°    | 189.6 | 188.9 | 188.2 | 187.5 | 186.8 | 185.8 | 184.6 | 183.4 | 182.1 | 180.9 | 180.0 |
| 72.5°  | 165.8 | 165.3 | 164.9 | 164.4 | 163.9 | 163.2 | 162.5 | 161.7 | 160.9 | 160.0 | 159.1 |
| 75°    | 130.7 | 130.4 | 130.1 | 129.9 | 129.6 | 129.1 | 128.4 | 127.8 | 127.0 | 126.4 | 126.0 |
| 77.5°  | 98.4  | 98.2  | 98.2  | 98.0  | 97.9  | 97.7  | 97.3  | 96.9  | 96.5  | 96.1  | 95.9  |
| 80°    | 78.0  | 78.0  | 78.0  | 78.0  | 78.0  | 77.9  | 77.6  | 77.4  | 77.1  | 76.8  | 76.6  |
| 82.5°  | 60.3  | 60.0  | 59.8  | 59.5  | 59.4  | 59.2  | 59.1  | 59.1  | 59.0  | 58.9  | 58.7  |
| 85°    | 34.1  | 34.2  | 34.3  | 34.5  | 34.7  | 34.7  | 34.7  | 34.7  | 34.7  | 34.7  | 34.6  |
| 87.5°  | 13.5  | 13.6  | 13.8  | 13.9  | 14.1  | 14.3  | 14.3  | 14.3  | 14.3  | 14.3  | 14.5  |
| 90°    | 0.5   | 1.3   | 2.1   | 2.9   | 3.8   | 4.6   | 5.3   | 6.0   | 6.7   | 7.4   | 8.0   |
| 92.5°  | 7.2   | 6.6   | 6.0   | 5.5   | 4.8   | 4.9   | 5.5   | 6.2   | 6.8   | 7.4   | 8.0   |
| 95°    | 26.5  | 26.2  | 25.9  | 25.6  | 25.3  | 23.2  | 19.2  | 15.3  | 11.3  | 7.4   | 8.0   |
| 97.5°  | 55.4  | 55.9  | 56.5  | 57.0  | 57.6  | 54.0  | 46.2  | 38.4  | 30.7  | 22.9  | 20.0  |
| 100°   | 77.7  | 78.0  | 78.3  | 78.6  | 78.9  | 79.2  | 79.7  | 80.1  | 80.6  | 81.0  | 65.6  |
| 102.5° | 100.4 | 100.8 | 101.2 | 101.6 | 101.9 | 102.2 | 102.5 | 102.8 | 103.1 | 103.3 | 100.4 |
| 105°   | 136.7 | 137.1 | 137.6 | 138.0 | 138.4 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 |
| 107.5° | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 | 174.6 | 174.8 | 175.0 | 175.3 | 175.5 | 175.5 |
| 110°   | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.2 | 199.4 | 199.6 | 199.8 | 200.0 | 199.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 222.2 | 222.4 | 222.7 | 222.9 | 223.1 | 223.3 | 223.5 | 223.6 | 223.7 | 223.8 | 223.5 |
| 115°   | 256.7 | 257.3 | 257.8 | 258.3 | 258.9 | 259.2 | 259.3 | 259.3 | 259.4 | 259.6 | 259.2 |
| 117.5° | 292.6 | 292.5 | 292.5 | 292.5 | 292.5 | 292.7 | 293.1 | 293.5 | 293.8 | 294.2 | 293.8 |
| 120°   | 315.0 | 314.8 | 314.7 | 314.6 | 314.5 | 314.6 | 315.0 | 315.2 | 315.5 | 315.8 | 315.6 |
| 122.5° | 334.6 | 335.0 | 335.4 | 335.8 | 336.2 | 336.5 | 336.6 | 336.8 | 336.9 | 337.0 | 336.9 |
| 125°   | 365.2 | 365.9 | 366.6 | 367.3 | 368.0 | 368.4 | 368.4 | 368.4 | 368.4 | 368.4 | 368.0 |
| 127.5° | 394.3 | 394.8 | 395.3 | 395.8 | 396.3 | 396.6 | 396.5 | 396.5 | 396.4 | 396.3 | 396.1 |
| 130°   | 412.1 | 412.6 | 413.2 | 413.7 | 414.2 | 414.5 | 414.6 | 414.7 | 414.8 | 414.9 | 414.6 |
| 132.5° | 430.0 | 430.6 | 431.2 | 431.8 | 432.4 | 432.6 | 432.4 | 432.1 | 431.9 | 431.7 | 431.6 |
| 135°   | 455.4 | 456.0 | 456.6 | 457.2 | 457.9 | 458.1 | 457.9 | 457.6 | 457.5 | 457.2 | 457.1 |
| 137.5° | 478.7 | 479.3 | 479.8 | 480.4 | 480.9 | 481.1 | 480.9 | 480.7 | 480.5 | 480.3 | 480.4 |
| 140°   | 494.0 | 494.2 | 494.4 | 494.6 | 494.8 | 494.9 | 494.8 | 494.6 | 494.6 | 494.5 | 494.6 |
| 142.5° | 507.8 | 507.9 | 508.0 | 508.2 | 508.3 | 508.4 | 508.6 | 508.7 | 508.8 | 509.0 | 509.0 |
| 145°   | 528.0 | 528.2 | 528.4 | 528.6 | 528.8 | 528.9 | 528.9 | 528.9 | 528.9 | 528.9 | 529.0 |
| 147.5° | 545.6 | 545.6 | 545.5 | 545.5 | 545.4 | 545.5 | 545.6 | 545.8 | 545.8 | 546.0 | 546.2 |
| 150°   | 556.8 | 556.6 | 556.4 | 556.2 | 556.0 | 556.0 | 556.2 | 556.4 | 556.6 | 556.8 | 557.0 |
| 152.5° | 567.6 | 567.1 | 566.7 | 566.2 | 565.7 | 565.7 | 565.8 | 566.1 | 566.2 | 566.5 | 566.7 |
| 155°   | 581.5 | 580.8 | 580.2 | 579.6 | 578.9 | 578.8 | 578.9 | 579.2 | 579.4 | 579.6 | 579.9 |
| 157.5° | 592.2 | 591.7 | 591.4 | 591.0 | 590.7 | 590.5 | 590.5 | 590.5 | 590.5 | 590.6 | 590.9 |
| 160°   | 599.6 | 599.0 | 598.3 | 597.7 | 597.1 | 596.9 | 597.0 | 597.0 | 597.1 | 597.3 | 597.7 |
| 162.5° | 605.5 | 605.0 | 604.3 | 603.6 | 603.1 | 602.8 | 602.9 | 603.0 | 603.1 | 603.2 | 603.8 |
| 165°   | 613.5 | 612.9 | 612.3 | 611.7 | 611.1 | 610.8 | 610.9 | 611.0 | 611.1 | 611.2 | 611.8 |
| 167.5° | 619.5 | 618.9 | 618.2 | 617.6 | 616.9 | 616.7 | 616.8 | 616.9 | 616.9 | 617.1 | 617.8 |
| 170°   | 622.9 | 622.2 | 621.4 | 620.7 | 620.0 | 619.6 | 619.7 | 619.9 | 620.0 | 620.0 | 620.9 |
| 172.5° | 625.1 | 624.4 | 623.6 | 622.9 | 622.2 | 621.9 | 622.1 | 622.3 | 622.5 | 622.6 | 623.4 |
| 175°   | 627.5 | 626.9 | 626.2 | 625.7 | 625.0 | 624.8 | 624.8 | 625.0 | 625.1 | 625.2 | 626.0 |
| 177.5° | 628.6 | 628.1 | 627.6 | 627.1 | 626.6 | 626.4 | 626.5 | 626.6 | 626.6 | 626.7 | 627.4 |
| 180°   | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 |
| 2.5°   | 780.7 | 781.9 | 782.9 | 783.4 | 783.3 | 783.2 | 783.1 | 783.0 |
| 5°     | 776.8 | 778.0 | 779.3 | 779.8 | 779.7 | 779.6 | 779.4 | 779.3 |
| 7.5°   | 768.9 | 770.1 | 771.4 | 771.9 | 771.8 | 771.6 | 771.5 | 771.4 |
| 10°    | 762.3 | 763.4 | 764.5 | 765.0 | 764.8 | 764.7 | 764.5 | 764.4 |
| 12.5°  | 753.4 | 754.3 | 755.1 | 755.6 | 755.5 | 755.5 | 755.5 | 755.5 |
| 15°    | 737.9 | 738.6 | 739.3 | 739.6 | 739.6 | 739.6 | 739.6 | 739.6 |
| 17.5°  | 719.9 | 720.7 | 721.6 | 721.7 | 721.0 | 720.3 | 719.7 | 718.9 |
| 20°    | 706.2 | 707.2 | 708.2 | 708.3 | 707.6 | 706.9 | 706.2 | 705.6 |
| 22.5°  | 690.7 | 691.4 | 692.0 | 692.1 | 691.6 | 691.1 | 690.6 | 690.2 |
| 25°    | 665.9 | 666.1 | 666.4 | 666.3 | 665.9 | 665.5 | 665.1 | 664.7 |
| 27.5°  | 639.8 | 639.8 | 639.8 | 639.7 | 639.3 | 638.9 | 638.5 | 638.1 |
| 30°    | 620.8 | 620.5 | 620.2 | 619.9 | 619.5 | 619.1 | 618.6 | 618.2 |
| 32.5°  | 601.5 | 601.0 | 600.5 | 599.9 | 599.2 | 598.4 | 597.6 | 596.9 |
| 35°    | 571.6 | 571.0 | 570.2 | 569.3 | 568.3 | 567.1 | 566.1 | 564.9 |
| 37.5°  | 540.2 | 539.2 | 538.2 | 537.4 | 536.7 | 536.1 | 535.5 | 534.8 |
| 40°    | 518.4 | 517.2 | 516.0 | 515.2 | 514.8 | 514.4 | 514.0 | 513.6 |
| 42.5°  | 496.9 | 495.8 | 494.6 | 493.7 | 493.1 | 492.5 | 491.9 | 491.2 |
| 45°    | 465.0 | 463.3 | 461.7 | 460.6 | 460.2 | 459.8 | 459.4 | 459.0 |
| 47.5°  | 431.4 | 429.7 | 428.0 | 426.7 | 425.7 | 424.8 | 423.8 | 422.8 |
| 50°    | 408.4 | 406.6 | 404.8 | 403.4 | 402.4 | 401.5 | 400.5 | 399.6 |
| 52.5°  | 386.0 | 384.4 | 382.9 | 381.6 | 380.5 | 379.4 | 378.3 | 377.2 |
| 55°    | 351.2 | 350.0 | 348.8 | 347.6 | 346.7 | 345.7 | 344.8 | 343.8 |
| 57.5°  | 316.7 | 315.1 | 313.5 | 312.4 | 311.9 | 311.4 | 310.9 | 310.4 |
| 60°    | 293.3 | 292.0 | 290.6 | 289.4 | 288.5 | 287.5 | 286.5 | 285.6 |
| 62.5°  | 270.8 | 269.4 | 267.8 | 266.8 | 266.0 | 265.2 | 264.5 | 263.7 |
| 65°    | 235.4 | 234.2 | 232.9 | 232.0 | 231.5 | 230.9 | 230.4 | 229.8 |
| 67.5°  | 201.6 | 200.6 | 199.5 | 198.8 | 198.4 | 198.1 | 197.8 | 197.5 |
| 70°    | 179.2 | 178.4 | 177.6 | 176.9 | 176.3 | 175.8 | 175.2 | 174.7 |
| 72.5°  | 158.2 | 157.3 | 156.3 | 155.6 | 155.0 | 154.5 | 153.9 | 153.4 |
| 75°    | 125.6 | 125.1 | 124.7 | 124.3 | 123.7 | 123.1 | 122.6 | 122.1 |
| 77.5°  | 95.6  | 95.4  | 95.1  | 94.8  | 94.4  | 94.1  | 93.7  | 93.3  |
| 80°    | 76.6  | 76.4  | 76.2  | 76.1  | 75.7  | 75.5  | 75.3  | 74.9  |
| 82.5°  | 58.5  | 58.2  | 58.0  | 57.8  | 57.8  | 57.7  | 57.6  | 57.6  |
| 85°    | 34.4  | 34.2  | 34.2  | 33.9  | 33.7  | 33.3  | 33.1  | 32.9  |
| 87.5°  | 14.6  | 14.7  | 14.8  | 14.8  | 14.6  | 14.4  | 14.3  | 14.1  |
| 90°    | 8.5   | 9.0   | 9.5   | 9.9   | 10.3  | 10.5  | 10.8  | 11.2  |
| 92.5°  | 8.5   | 9.0   | 9.5   | 9.9   | 9.9   | 10.1  | 10.3  | 10.4  |
| 95°    | 8.5   | 9.0   | 9.5   | 9.8   | 9.8   | 9.8   | 9.8   | 9.8   |
| 97.5°  | 17.0  | 14.1  | 11.3  | 9.8   | 9.8   | 9.8   | 9.8   | 9.8   |
| 100°   | 50.1  | 34.7  | 19.3  | 11.4  | 11.0  | 10.6  | 10.2  | 9.8   |
| 102.5° | 97.4  | 94.5  | 91.6  | 86.7  | 79.6  | 72.6  | 65.6  | 58.5  |
| 105°   | 138.6 | 138.6 | 138.6 | 138.6 | 138.4 | 138.4 | 138.3 | 138.1 |
| 107.5° | 175.5 | 175.5 | 175.5 | 175.4 | 175.1 | 174.8 | 174.5 | 174.1 |
| 110°   | 199.4 | 199.1 | 198.8 | 198.7 | 198.8 | 198.9 | 199.0 | 199.1 |





TEST NUMBER: P333175-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 223.1 | 222.7 | 222.3 | 222.0 | 221.8 | 221.7 | 221.6 | 221.4 |
| 115°   | 258.7 | 258.3 | 257.9 | 257.4 | 256.7 | 256.2 | 255.5 | 254.9 |
| 117.5° | 293.2 | 292.6 | 292.1 | 291.7 | 291.5 | 291.1 | 290.9 | 290.7 |
| 120°   | 315.4 | 315.2 | 315.0 | 314.6 | 314.1 | 313.6 | 313.1 | 312.6 |
| 122.5° | 336.6 | 336.5 | 336.2 | 335.8 | 335.3 | 334.6 | 334.0 | 333.5 |
| 125°   | 367.6 | 367.1 | 366.7 | 366.4 | 366.1 | 365.7 | 365.5 | 365.2 |
| 127.5° | 395.8 | 395.7 | 395.4 | 394.9 | 394.1 | 393.4 | 392.6 | 391.8 |
| 130°   | 414.3 | 414.0 | 413.7 | 413.3 | 412.8 | 412.2 | 411.7 | 411.2 |
| 132.5° | 431.5 | 431.5 | 431.5 | 431.1 | 430.6 | 430.1 | 429.6 | 429.1 |
| 135°   | 456.8 | 456.6 | 456.4 | 456.0 | 455.4 | 454.8 | 454.1 | 453.6 |
| 137.5° | 480.4 | 480.5 | 480.5 | 480.2 | 479.7 | 479.2 | 478.7 | 478.1 |
| 140°   | 494.9 | 495.0 | 495.3 | 495.0 | 494.5 | 493.8 | 493.3 | 492.6 |
| 142.5° | 509.1 | 509.1 | 509.2 | 508.8 | 508.3 | 507.6 | 507.0 | 506.4 |
| 145°   | 529.1 | 529.2 | 529.3 | 529.0 | 528.4 | 527.8 | 527.2 | 526.5 |
| 147.5° | 546.3 | 546.4 | 546.5 | 546.2 | 545.4 | 544.7 | 544.0 | 543.2 |
| 150°   | 557.2 | 557.4 | 557.6 | 557.3 | 556.5 | 555.6 | 554.8 | 554.0 |
| 152.5° | 566.9 | 567.1 | 567.3 | 567.0 | 566.3 | 565.6 | 564.8 | 564.0 |
| 155°   | 580.2 | 580.5 | 580.8 | 580.6 | 579.8 | 578.9 | 578.1 | 577.2 |
| 157.5° | 591.3 | 591.6 | 591.9 | 591.7 | 590.8 | 590.0 | 589.1 | 588.3 |
| 160°   | 598.1 | 598.5 | 598.9 | 598.7 | 597.9 | 597.0 | 596.2 | 595.4 |
| 162.5° | 604.4 | 605.0 | 605.5 | 605.4 | 604.5 | 603.6 | 602.7 | 601.7 |
| 165°   | 612.5 | 613.1 | 613.7 | 613.6 | 612.8 | 612.0 | 611.1 | 610.3 |
| 167.5° | 618.6 | 619.3 | 620.0 | 620.0 | 619.1 | 618.1 | 617.2 | 616.2 |
| 170°   | 621.7 | 622.6 | 623.4 | 623.3 | 622.4 | 621.4 | 620.5 | 619.6 |
| 172.5° | 624.1 | 624.9 | 625.7 | 625.6 | 624.6 | 623.7 | 622.7 | 621.8 |
| 175°   | 626.8 | 627.6 | 628.5 | 628.4 | 627.5 | 626.6 | 625.7 | 624.7 |
| 177.5° | 627.9 | 628.5 | 629.1 | 629.0 | 628.4 | 627.7 | 627.0 | 626.4 |
| 180°   | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 |

(END OF REPORT)