

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: P333195-830

Luminaire Tested: **S125DIP-S610D1035U830-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333195-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIP-S610D1035U830-4F0-1E-UDD-F4  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 610 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

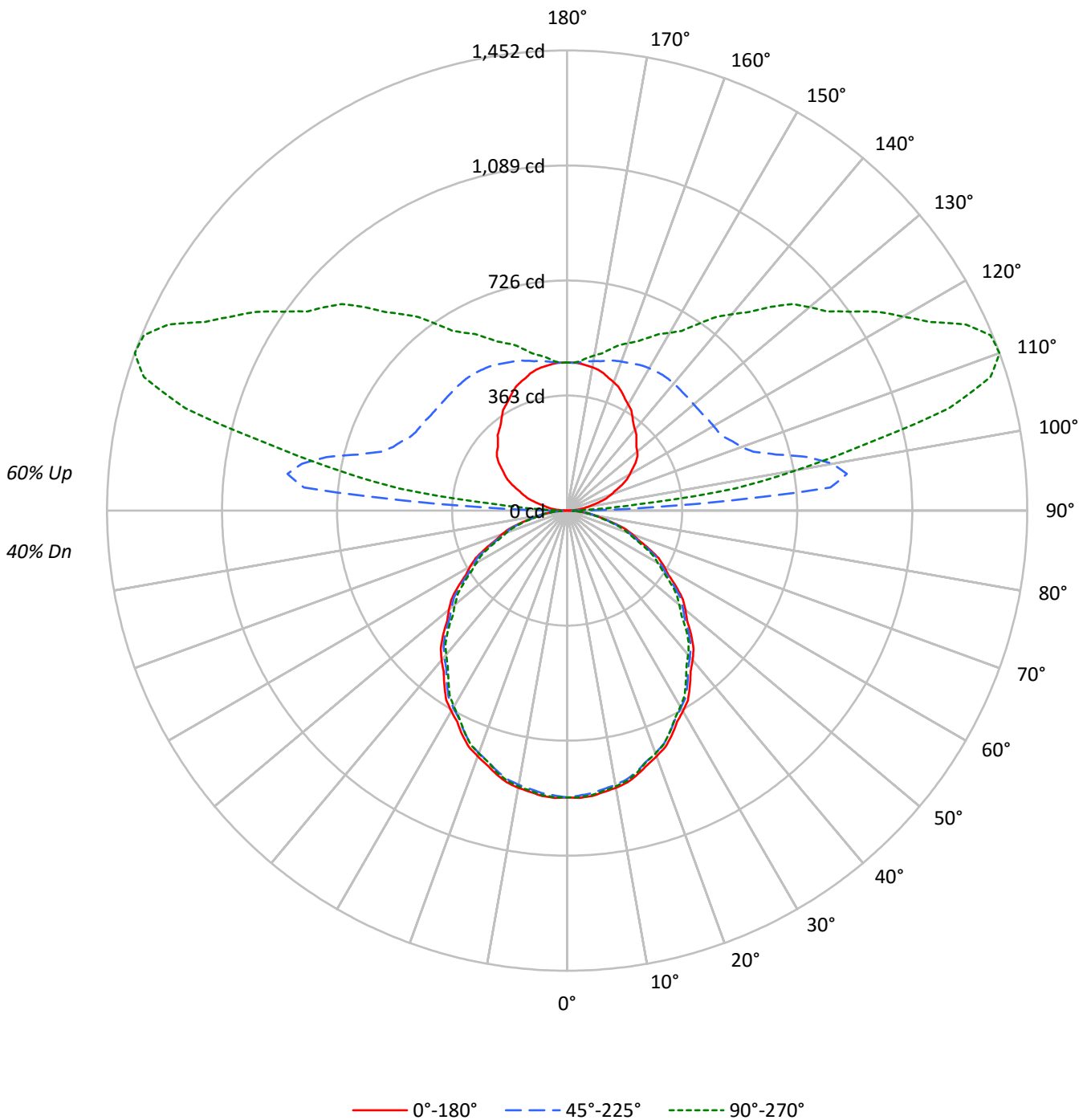
Lumens per Lamp: N/A  
Luminaire Lumens: 5857.8 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 44.5  
Input Voltage (V): 120  
Input Current (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: P333195-830

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### Luminous Intensity Polar Plot





TEST NUMBER: P333195-830

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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 | 95 | 95 | 95 | 95 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 40 |
| 1   | 96  | 91  | 87  | 84  | 87 | 83 | 80 | 77 | 68 | 66 | 64 | 54 | 53 | 51 | 42 | 41 | 40 | 34 |
| 2   | 87  | 80  | 74  | 68  | 79 | 73 | 68 | 63 | 60 | 56 | 53 | 48 | 45 | 43 | 37 | 35 | 33 | 28 |
| 3   | 79  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 48 | 44 | 42 | 39 | 36 | 32 | 30 | 28 | 24 |
| 4   | 72  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 37 | 34 | 31 | 29 | 26 | 24 | 20 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 42 | 36 | 32 | 34 | 30 | 27 | 26 | 23 | 21 | 18 |
| 6   | 61  | 49  | 41  | 36  | 55 | 45 | 38 | 33 | 38 | 32 | 28 | 30 | 26 | 23 | 24 | 21 | 19 | 16 |
| 7   | 57  | 44  | 37  | 31  | 51 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 | 14 |
| 8   | 52  | 40  | 33  | 27  | 48 | 37 | 30 | 26 | 31 | 26 | 22 | 25 | 21 | 18 | 20 | 17 | 15 | 12 |
| 9   | 49  | 37  | 29  | 24  | 44 | 34 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |
| 10  | 45  | 34  | 26  | 22  | 41 | 31 | 25 | 20 | 26 | 21 | 18 | 21 | 18 | 15 | 17 | 14 | 12 | 10 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5846 | 5846 | 5846 |
| 5°  | 5859 | 5803 | 5841 |
| 10° | 5823 | 5762 | 5795 |
| 15° | 5760 | 5693 | 5717 |
| 20° | 5670 | 5597 | 5606 |
| 25° | 5573 | 5481 | 5476 |
| 30° | 5452 | 5357 | 5330 |
| 35° | 5324 | 5222 | 5149 |
| 40° | 5193 | 5078 | 5005 |
| 45° | 5050 | 4945 | 4847 |
| 50° | 4893 | 4786 | 4641 |
| 55° | 4741 | 4604 | 4476 |
| 60° | 4561 | 4421 | 4265 |
| 65° | 4345 | 4202 | 4060 |
| 70° | 4137 | 3950 | 3814 |
| 75° | 3770 | 3646 | 3521 |
| 80° | 3355 | 3303 | 3221 |
| 85° | 2920 | 2971 | 2816 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.3   | 1.5       |
| 10°-20°   | 241.1  | 4.1       |
| 20°-30°   | 356.0  | 6.1       |
| 30°-40°   | 415.4  | 7.1       |
| 40°-50°   | 417.2  | 7.1       |
| 50°-60°   | 366.2  | 6.3       |
| 60°-70°   | 272.9  | 4.7       |
| 70°-80°   | 156.0  | 2.7       |
| 80°-90°   | 48.0   | 0.8       |
| 90°-100°  | 338.3  | 5.8       |
| 100°-110° | 727.2  | 12.4      |
| 110°-120° | 682.5  | 11.7      |
| 120°-130° | 553.1  | 9.4       |
| 130°-140° | 443.9  | 7.6       |
| 140°-150° | 334.9  | 5.7       |
| 150°-160° | 235.8  | 4.0       |
| 160°-170° | 139.0  | 2.4       |
| 170°-180° | 45.2   | 0.8       |
| 0°-30°    | 682.4  | 11.6      |
| 0°-40°    | 1097.8 | 18.7      |
| 0°-60°    | 1881.2 | 32.1      |
| 0°-90°    | 2358.0 | 40.3      |
| 90°-120°  | 1747.9 | 29.8      |
| 90°-150°  | 3079.8 | 52.6      |
| 90°-180°  | 3500.0 | 59.7      |
| 0°-180°   | 5857.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 905 | 905   | 905 | 905   | 905  |      |
| 5°   | 904 | 902   | 895 | 901   | 901  | 86   |
| 15°  | 862 | 859   | 852 | 855   | 855  | 243  |
| 25°  | 782 | 778   | 769 | 770   | 768  | 360  |
| 35°  | 675 | 672   | 662 | 659   | 653  | 422  |
| 45°  | 553 | 550   | 541 | 533   | 531  | 426  |
| 55°  | 421 | 418   | 409 | 403   | 398  | 376  |
| 65°  | 284 | 282   | 275 | 269   | 266  | 282  |
| 75°  | 151 | 150   | 146 | 144   | 141  | 161  |
| 85°  | 39  | 40    | 40  | 39    | 38   | 44   |
| 90°  | 1   | 8     | 15  | 20    | 22   | 4    |
| 95°  | 31  | 92    | 834 | 378   | 221  | 33   |
| 105° | 106 | 149   | 682 | 1343  | 1247 | 112  |
| 115° | 190 | 229   | 548 | 1180  | 1389 | 187  |
| 125° | 263 | 309   | 525 | 939   | 1094 | 234  |
| 135° | 309 | 371   | 521 | 787   | 909  | 240  |
| 145° | 359 | 412   | 523 | 652   | 717  | 225  |
| 155° | 410 | 441   | 510 | 576   | 601  | 189  |
| 165° | 448 | 460   | 489 | 519   | 527  | 126  |
| 175° | 466 | 466   | 470 | 475   | 473  | 44   |
| 180° | 467 | 467   | 467 | 467   | 467  |      |



TEST NUMBER: P333195-830

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2  |
| 2.5°   | 907.5 | 907.1 | 906.7 | 906.3 | 906.0 | 905.1 | 903.9 | 902.6 | 901.4 | 900.0 | 901.4  |
| 5°     | 903.8 | 903.4 | 903.1 | 902.8 | 902.5 | 901.5 | 899.9 | 898.3 | 896.7 | 895.1 | 896.6  |
| 7.5°   | 895.4 | 895.1 | 894.8 | 894.5 | 894.2 | 893.2 | 891.4 | 889.7 | 887.9 | 886.2 | 887.5  |
| 10°    | 888.0 | 887.7 | 887.4 | 887.0 | 886.7 | 885.7 | 883.9 | 882.2 | 880.4 | 878.7 | 880.0  |
| 12.5°  | 878.8 | 878.3 | 877.7 | 877.1 | 876.6 | 875.4 | 873.8 | 872.2 | 870.5 | 868.9 | 870.0  |
| 15°    | 861.5 | 861.0 | 860.5 | 860.1 | 859.6 | 858.5 | 856.8 | 855.0 | 853.2 | 851.5 | 852.2  |
| 17.5°  | 841.6 | 840.9 | 840.2 | 839.5 | 838.8 | 837.5 | 835.8 | 833.9 | 832.1 | 830.3 | 831.2  |
| 20°    | 825.0 | 824.6 | 824.3 | 824.1 | 823.7 | 822.6 | 820.5 | 818.4 | 816.3 | 814.3 | 815.4  |
| 22.5°  | 808.3 | 807.8 | 807.2 | 806.6 | 806.1 | 804.8 | 802.9 | 801.0 | 799.0 | 797.0 | 797.8  |
| 25°    | 782.0 | 781.2 | 780.4 | 779.7 | 778.8 | 777.4 | 775.3 | 773.3 | 771.2 | 769.1 | 769.5  |
| 27.5°  | 751.2 | 750.7 | 750.3 | 749.8 | 749.3 | 748.0 | 745.8 | 743.8 | 741.6 | 739.5 | 739.5  |
| 30°    | 731.1 | 730.7 | 730.2 | 729.7 | 729.2 | 727.8 | 725.5 | 723.0 | 720.7 | 718.3 | 717.9  |
| 32.5°  | 709.4 | 708.7 | 707.9 | 707.2 | 706.4 | 705.0 | 702.9 | 700.8 | 698.6 | 696.5 | 696.0  |
| 35°    | 675.3 | 674.7 | 674.0 | 673.4 | 672.8 | 671.4 | 669.1 | 666.8 | 664.7 | 662.4 | 661.7  |
| 37.5°  | 639.9 | 639.1 | 638.4 | 637.5 | 636.8 | 635.3 | 633.2 | 631.1 | 629.0 | 626.9 | 625.8  |
| 40°    | 615.9 | 615.1 | 614.3 | 613.5 | 612.7 | 611.1 | 609.0 | 606.7 | 604.5 | 602.3 | 600.9  |
| 42.5°  | 590.1 | 589.5 | 588.7 | 588.1 | 587.4 | 586.0 | 583.7 | 581.5 | 579.3 | 577.0 | 575.8  |
| 45°    | 552.9 | 552.2 | 551.6 | 550.9 | 550.4 | 549.0 | 547.1 | 545.3 | 543.3 | 541.4 | 539.5  |
| 47.5°  | 512.7 | 512.7 | 512.8 | 512.8 | 512.8 | 511.7 | 509.4 | 507.2 | 504.9 | 502.6 | 500.7  |
| 50°    | 487.0 | 486.4 | 486.0 | 485.5 | 485.0 | 483.9 | 481.9 | 480.0 | 478.2 | 476.3 | 474.2  |
| 52.5°  | 460.6 | 460.2 | 460.0 | 459.6 | 459.2 | 458.0 | 456.0 | 453.9 | 451.9 | 449.9 | 448.1  |
| 55°    | 421.1 | 420.6 | 420.1 | 419.6 | 419.1 | 417.8 | 415.6 | 413.4 | 411.1 | 408.9 | 407.5  |
| 57.5°  | 379.4 | 379.2 | 378.9 | 378.6 | 378.4 | 377.3 | 375.4 | 373.5 | 371.6 | 369.9 | 368.0  |
| 60°    | 353.1 | 352.4 | 351.8 | 351.1 | 350.5 | 349.3 | 347.6 | 345.8 | 344.0 | 342.3 | 340.7  |
| 62.5°  | 325.6 | 325.1 | 324.5 | 324.0 | 323.5 | 322.5 | 321.0 | 319.5 | 318.0 | 316.5 | 314.8  |
| 65°    | 284.3 | 284.0 | 283.7 | 283.3 | 283.0 | 282.0 | 280.2 | 278.5 | 276.7 | 275.0 | 273.5  |
| 67.5°  | 244.3 | 243.6 | 243.0 | 242.3 | 241.7 | 240.7 | 239.4 | 238.1 | 236.8 | 235.4 | 234.2  |
| 70°    | 219.1 | 218.4 | 217.5 | 216.8 | 215.9 | 214.8 | 213.4 | 212.0 | 210.6 | 209.2 | 208.1  |
| 72.5°  | 191.6 | 191.1 | 190.6 | 190.0 | 189.5 | 188.7 | 187.8 | 186.9 | 186.0 | 185.0 | 184.0  |
| 75°    | 151.1 | 150.8 | 150.4 | 150.1 | 149.9 | 149.3 | 148.5 | 147.7 | 146.8 | 146.1 | 145.6  |
| 77.5°  | 113.8 | 113.6 | 113.5 | 113.3 | 113.2 | 112.9 | 112.4 | 112.1 | 111.6 | 111.1 | 110.8  |
| 80°    | 90.2  | 90.2  | 90.2  | 90.2  | 90.2  | 90.1  | 89.7  | 89.4  | 89.2  | 88.8  | 88.6   |
| 82.5°  | 69.7  | 69.4  | 69.1  | 68.8  | 68.6  | 68.4  | 68.3  | 68.3  | 68.2  | 68.1  | 67.9   |
| 85°    | 39.4  | 39.6  | 39.7  | 39.9  | 40.1  | 40.1  | 40.1  | 40.1  | 40.1  | 40.1  | 40.0   |
| 87.5°  | 15.6  | 15.8  | 16.2  | 16.6  | 17.0  | 17.2  | 17.3  | 17.6  | 17.6  | 17.9  | 18.1   |
| 90°    | 0.9   | 1.9   | 3.8   | 5.7   | 7.5   | 9.4   | 10.4  | 12.3  | 13.2  | 15.1  | 16.0   |
| 92.5°  | 11.5  | 13.9  | 21.9  | 33.5  | 49.7  | 77.2  | 128.6 | 214.7 | 308.2 | 303.3 | 245.5  |
| 95°    | 31.0  | 32.0  | 39.5  | 49.9  | 70.6  | 112.9 | 213.6 | 420.6 | 680.3 | 833.7 | 815.8  |
| 97.5°  | 51.6  | 52.7  | 58.0  | 68.3  | 86.9  | 117.4 | 184.1 | 335.7 | 607.5 | 890.3 | 1032.2 |
| 100°   | 65.9  | 67.8  | 71.5  | 81.8  | 99.7  | 128.0 | 182.6 | 304.8 | 542.0 | 849.6 | 1084.9 |
| 102.5° | 81.7  | 82.8  | 85.8  | 96.9  | 113.3 | 140.7 | 189.4 | 292.1 | 492.3 | 778.2 | 1053.3 |
| 105°   | 106.3 | 106.3 | 111.0 | 120.5 | 135.5 | 161.8 | 203.2 | 287.0 | 444.1 | 682.1 | 952.3  |
| 107.5° | 130.4 | 132.3 | 136.8 | 144.5 | 160.1 | 183.9 | 223.9 | 295.7 | 423.8 | 616.1 | 849.0  |
| 110°   | 147.7 | 149.6 | 153.4 | 161.8 | 176.0 | 200.4 | 239.0 | 303.9 | 417.7 | 585.2 | 790.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 165.0 | 166.9 | 169.9 | 178.4 | 192.5 | 216.2 | 253.3 | 314.4 | 417.7 | 567.2 | 746.7 |
| 115°   | 190.1 | 191.9 | 194.7 | 203.2 | 217.4 | 240.9 | 275.7 | 330.3 | 420.6 | 547.6 | 699.1 |
| 117.5° | 212.6 | 215.5 | 218.5 | 227.0 | 243.0 | 265.7 | 298.7 | 348.4 | 426.8 | 538.0 | 670.7 |
| 120°   | 227.7 | 230.5 | 234.3 | 242.8 | 258.7 | 282.3 | 315.2 | 360.3 | 432.8 | 533.5 | 654.9 |
| 122.5° | 243.6 | 245.5 | 248.5 | 257.0 | 274.6 | 298.1 | 331.0 | 373.9 | 438.1 | 529.7 | 641.3 |
| 125°   | 263.4 | 265.3 | 270.0 | 278.5 | 296.4 | 320.8 | 351.9 | 392.4 | 447.0 | 525.0 | 622.9 |
| 127.5° | 279.1 | 281.9 | 287.9 | 298.7 | 317.6 | 342.1 | 372.0 | 409.3 | 456.9 | 522.7 | 606.0 |
| 130°   | 288.9 | 291.7 | 299.3 | 311.4 | 331.2 | 355.6 | 384.8 | 420.6 | 463.0 | 521.2 | 594.7 |
| 132.5° | 296.4 | 299.9 | 309.0 | 322.7 | 343.3 | 367.7 | 396.9 | 430.4 | 469.7 | 521.2 | 585.6 |
| 135°   | 308.6 | 312.4 | 323.7 | 338.7 | 358.4 | 383.9 | 413.0 | 444.1 | 478.9 | 521.2 | 574.9 |
| 137.5° | 324.0 | 326.9 | 337.4 | 352.5 | 371.8 | 398.0 | 424.5 | 454.3 | 487.4 | 522.4 | 565.3 |
| 140°   | 333.1 | 335.9 | 347.2 | 362.2 | 380.1 | 405.6 | 432.8 | 461.1 | 491.2 | 523.1 | 560.8 |
| 142.5° | 343.7 | 345.7 | 356.2 | 371.3 | 388.4 | 412.3 | 438.1 | 464.8 | 493.4 | 523.9 | 557.0 |
| 145°   | 359.4 | 361.3 | 370.7 | 383.9 | 400.9 | 422.4 | 447.0 | 470.4 | 495.9 | 523.1 | 551.4 |
| 147.5° | 376.0 | 377.1 | 385.2 | 397.5 | 412.1 | 431.1 | 452.6 | 473.8 | 496.8 | 520.7 | 545.5 |
| 150°   | 385.8 | 387.7 | 394.3 | 406.5 | 419.6 | 435.6 | 456.4 | 476.1 | 496.8 | 518.4 | 541.0 |
| 152.5° | 396.3 | 397.5 | 403.3 | 414.0 | 426.4 | 440.9 | 460.1 | 477.6 | 496.1 | 515.5 | 535.7 |
| 155°   | 410.2 | 410.2 | 415.8 | 425.3 | 434.7 | 447.9 | 463.8 | 478.9 | 494.0 | 510.0 | 526.9 |
| 157.5° | 422.6 | 422.4 | 427.0 | 435.1 | 443.4 | 453.4 | 467.0 | 479.8 | 491.5 | 504.4 | 518.6 |
| 160°   | 430.9 | 430.0 | 433.8 | 440.4 | 447.9 | 456.4 | 468.5 | 479.8 | 489.3 | 500.6 | 511.9 |
| 162.5° | 437.7 | 436.8 | 440.5 | 446.4 | 452.4 | 459.4 | 470.0 | 479.1 | 487.0 | 496.1 | 505.9 |
| 165°   | 447.9 | 446.0 | 448.8 | 453.6 | 457.3 | 463.0 | 470.4 | 478.0 | 483.6 | 489.3 | 496.8 |
| 167.5° | 454.7 | 453.7 | 455.4 | 458.1 | 460.7 | 464.2 | 470.4 | 475.7 | 478.3 | 482.7 | 488.0 |
| 170°   | 459.2 | 458.3 | 459.2 | 461.1 | 463.0 | 465.7 | 470.4 | 474.2 | 476.1 | 478.9 | 482.7 |
| 172.5° | 462.2 | 460.5 | 461.5 | 463.3 | 464.4 | 465.7 | 469.7 | 472.7 | 473.1 | 474.4 | 477.4 |
| 175°   | 465.7 | 463.8 | 464.8 | 465.7 | 465.7 | 465.7 | 468.5 | 470.4 | 469.5 | 469.5 | 470.4 |
| 177.5° | 467.4 | 465.9 | 465.9 | 466.7 | 465.9 | 465.9 | 467.4 | 468.2 | 466.7 | 466.7 | 467.4 |
| 180°   | 466.7 | 466.7 | 466.7 | 466.7 | 466.7 | 466.7 | 466.7 | 466.7 | 466.7 | 466.7 | 466.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 905.2  | 905.2  | 905.2  | 905.2  | 905.2  | 905.2  | 905.2  | 905.2  |
| 2.5°   | 902.6  | 903.9  | 905.1  | 905.7  | 905.6  | 905.4  | 905.3  | 905.2  |
| 5°     | 898.1  | 899.5  | 900.9  | 901.5  | 901.4  | 901.3  | 901.1  | 900.9  |
| 7.5°   | 888.9  | 890.3  | 891.7  | 892.4  | 892.2  | 892.0  | 891.9  | 891.7  |
| 10°    | 881.3  | 882.5  | 883.8  | 884.4  | 884.2  | 884.0  | 883.8  | 883.7  |
| 12.5°  | 871.0  | 872.0  | 873.0  | 873.5  | 873.5  | 873.5  | 873.5  | 873.4  |
| 15°    | 853.1  | 853.8  | 854.7  | 855.1  | 855.1  | 855.1  | 855.1  | 855.1  |
| 17.5°  | 832.3  | 833.2  | 834.2  | 834.3  | 833.5  | 832.7  | 832.0  | 831.1  |
| 20°    | 816.4  | 817.6  | 818.7  | 818.9  | 818.0  | 817.3  | 816.4  | 815.7  |
| 22.5°  | 798.5  | 799.3  | 800.0  | 800.1  | 799.6  | 799.0  | 798.4  | 798.0  |
| 25°    | 769.8  | 770.1  | 770.4  | 770.3  | 769.9  | 769.4  | 768.9  | 768.5  |
| 27.5°  | 739.6  | 739.7  | 739.7  | 739.5  | 739.0  | 738.6  | 738.1  | 737.6  |
| 30°    | 717.7  | 717.4  | 717.0  | 716.6  | 716.1  | 715.7  | 715.2  | 714.7  |
| 32.5°  | 695.4  | 694.7  | 694.2  | 693.5  | 692.7  | 691.8  | 690.9  | 690.0  |
| 35°    | 660.8  | 660.1  | 659.2  | 658.2  | 657.0  | 655.6  | 654.4  | 653.1  |
| 37.5°  | 624.5  | 623.4  | 622.2  | 621.2  | 620.5  | 619.8  | 619.1  | 618.3  |
| 40°    | 599.4  | 597.9  | 596.5  | 595.6  | 595.1  | 594.7  | 594.2  | 593.7  |
| 42.5°  | 574.5  | 573.2  | 571.8  | 570.8  | 570.0  | 569.4  | 568.6  | 567.9  |
| 45°    | 537.5  | 535.6  | 533.8  | 532.5  | 532.1  | 531.6  | 531.1  | 530.7  |
| 47.5°  | 498.7  | 496.7  | 494.8  | 493.3  | 492.2  | 491.1  | 489.9  | 488.8  |
| 50°    | 472.1  | 470.0  | 468.0  | 466.4  | 465.2  | 464.1  | 463.0  | 461.9  |
| 52.5°  | 446.2  | 444.4  | 442.6  | 441.1  | 439.9  | 438.6  | 437.3  | 436.1  |
| 55°    | 406.0  | 404.6  | 403.2  | 401.9  | 400.8  | 399.6  | 398.6  | 397.5  |
| 57.5°  | 366.1  | 364.3  | 362.4  | 361.2  | 360.6  | 360.0  | 359.4  | 358.8  |
| 60°    | 339.1  | 337.5  | 335.9  | 334.6  | 333.5  | 332.3  | 331.2  | 330.2  |
| 62.5°  | 313.1  | 311.4  | 309.6  | 308.4  | 307.6  | 306.6  | 305.8  | 304.9  |
| 65°    | 272.1  | 270.7  | 269.3  | 268.2  | 267.6  | 266.9  | 266.4  | 265.7  |
| 67.5°  | 233.1  | 231.9  | 230.6  | 229.8  | 229.4  | 229.0  | 228.7  | 228.3  |
| 70°    | 207.2  | 206.2  | 205.3  | 204.5  | 203.9  | 203.2  | 202.6  | 202.0  |
| 72.5°  | 182.9  | 181.8  | 180.7  | 179.8  | 179.2  | 178.6  | 178.0  | 177.3  |
| 75°    | 145.2  | 144.7  | 144.2  | 143.6  | 143.0  | 142.3  | 141.8  | 141.1  |
| 77.5°  | 110.6  | 110.3  | 110.0  | 109.6  | 109.1  | 108.8  | 108.3  | 107.8  |
| 80°    | 88.5   | 88.3   | 88.1   | 87.9   | 87.6   | 87.3   | 87.0   | 86.6   |
| 82.5°  | 67.6   | 67.3   | 67.0   | 66.8   | 66.8   | 66.7   | 66.6   | 66.6   |
| 85°    | 39.8   | 39.6   | 39.5   | 39.2   | 38.9   | 38.5   | 38.3   | 38.0   |
| 87.5°  | 18.3   | 18.5   | 18.7   | 18.9   | 18.7   | 18.4   | 18.4   | 18.1   |
| 90°    | 17.0   | 17.9   | 18.9   | 20.7   | 20.7   | 20.7   | 21.7   | 21.7   |
| 92.5°  | 166.7  | 121.0  | 91.0   | 77.2   | 65.1   | 62.9   | 61.5   | 60.0   |
| 95°    | 676.6  | 533.5  | 417.7  | 338.7  | 271.9  | 243.7  | 236.2  | 221.1  |
| 97.5°  | 1007.6 | 907.2  | 794.5  | 684.6  | 626.5  | 573.7  | 546.5  | 534.4  |
| 100°   | 1157.3 | 1111.3 | 1014.3 | 916.4  | 851.5  | 783.8  | 748.9  | 734.0  |
| 102.5° | 1207.8 | 1236.1 | 1189.7 | 1123.4 | 1054.0 | 1005.9 | 968.0  | 956.7  |
| 105°   | 1178.0 | 1306.9 | 1348.3 | 1337.9 | 1307.9 | 1276.9 | 1258.0 | 1246.7 |
| 107.5° | 1071.9 | 1243.9 | 1350.2 | 1399.3 | 1414.6 | 1414.4 | 1408.2 | 1400.6 |
| 110°   | 993.6  | 1172.3 | 1305.0 | 1385.1 | 1427.4 | 1445.2 | 1451.8 | 1451.8 |





TEST NUMBER: P333195-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 931.9 | 1101.6 | 1235.8 | 1330.1 | 1391.9 | 1422.7 | 1439.1 | 1445.8 |
| 115°   | 854.3 | 1000.2 | 1129.1 | 1231.6 | 1305.0 | 1350.2 | 1376.6 | 1388.8 |
| 117.5° | 804.3 | 930.0  | 1041.0 | 1135.1 | 1208.5 | 1255.2 | 1281.3 | 1288.8 |
| 120°   | 777.2 | 890.1  | 993.6  | 1076.4 | 1146.0 | 1191.2 | 1216.6 | 1224.2 |
| 122.5° | 756.9 | 861.5  | 953.7  | 1031.2 | 1093.3 | 1134.7 | 1160.2 | 1167.0 |
| 125°   | 727.4 | 823.3  | 905.1  | 972.9  | 1025.6 | 1064.1 | 1084.9 | 1094.3 |
| 127.5° | 697.2 | 786.8  | 863.2  | 926.6  | 974.4  | 1008.4 | 1028.0 | 1032.2 |
| 130°   | 678.4 | 761.2  | 834.6  | 895.8  | 942.8  | 973.8  | 992.7  | 998.3  |
| 132.5° | 659.6 | 737.1  | 803.7  | 862.6  | 909.6  | 940.8  | 958.0  | 964.4  |
| 135°   | 635.1 | 700.0  | 760.3  | 813.9  | 855.3  | 886.4  | 903.2  | 908.9  |
| 137.5° | 614.4 | 666.9  | 717.0  | 762.5  | 799.6  | 827.8  | 843.5  | 849.6  |
| 140°   | 603.1 | 647.3  | 690.6  | 730.2  | 765.0  | 789.5  | 803.5  | 808.2  |
| 142.5° | 593.3 | 630.7  | 668.1  | 702.3  | 731.9  | 752.5  | 765.9  | 769.9  |
| 145°   | 580.5 | 609.7  | 638.9  | 664.3  | 686.8  | 702.9  | 713.2  | 717.0  |
| 147.5° | 568.5 | 592.2  | 614.6  | 633.8  | 651.7  | 664.5  | 670.5  | 672.2  |
| 150°   | 561.8 | 582.4  | 600.3  | 617.3  | 631.3  | 642.6  | 646.4  | 647.3  |
| 152.5° | 554.2 | 572.6  | 589.0  | 602.2  | 614.1  | 623.1  | 626.8  | 627.7  |
| 155°   | 542.9 | 558.0  | 571.2  | 581.5  | 590.9  | 597.5  | 600.3  | 601.2  |
| 157.5° | 531.6 | 544.0  | 554.2  | 562.3  | 569.7  | 575.0  | 577.7  | 577.5  |
| 160°   | 524.1 | 533.5  | 542.9  | 549.5  | 556.1  | 560.8  | 562.7  | 561.8  |
| 162.5° | 515.9 | 524.4  | 532.3  | 538.2  | 543.3  | 547.2  | 547.6  | 547.4  |
| 165°   | 504.4 | 511.0  | 516.6  | 521.2  | 525.0  | 526.9  | 526.9  | 526.9  |
| 167.5° | 493.4 | 497.8  | 502.1  | 505.5  | 507.4  | 509.1  | 508.3  | 508.1  |
| 170°   | 487.4 | 490.2  | 493.0  | 494.9  | 496.8  | 497.8  | 497.8  | 496.8  |
| 172.5° | 480.6 | 483.4  | 485.5  | 486.6  | 487.0  | 488.7  | 487.2  | 486.3  |
| 175°   | 473.3 | 473.3  | 475.1  | 475.1  | 475.1  | 476.1  | 474.2  | 473.3  |
| 177.5° | 468.2 | 468.9  | 468.9  | 468.9  | 468.2  | 468.9  | 466.7  | 466.7  |
| 180°   | 466.7 | 466.7  | 466.7  | 466.7  | 466.7  | 466.7  | 466.7  | 466.7  |

(END OF REPORT)