

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: P333217-830

Luminaire Tested: **S125DIP-S850D590U830-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333217-830  
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-S850D590U830-4F0-1E-UDD-D  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 850 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5321.8 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

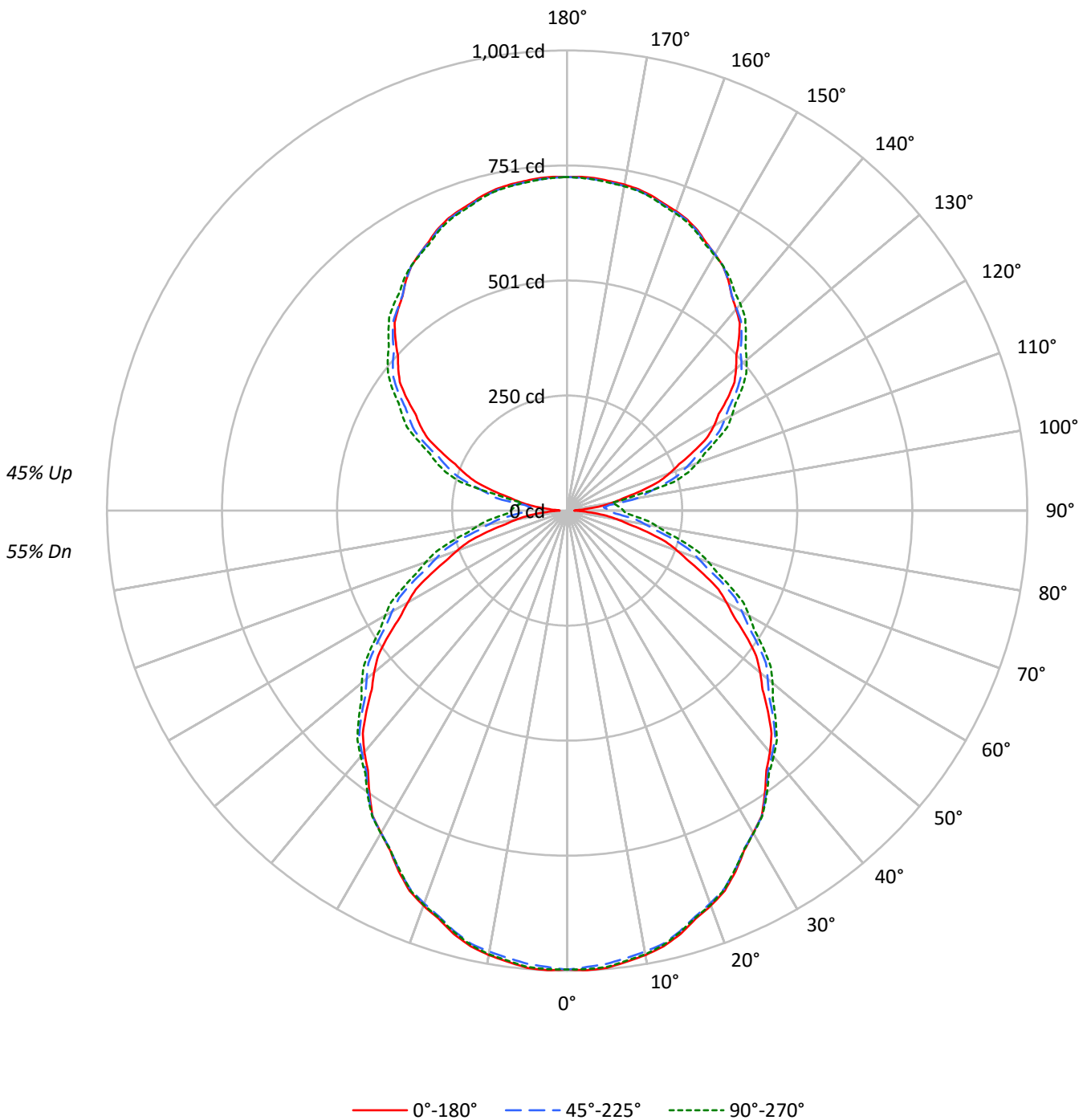
Input Watts (W): 40.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333217-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P333217-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-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   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 86 | 86 | 86 | 73 | 73 | 73 | 60 | 60 | 60 | 55 |
| 1   | 98  | 93  | 89  | 85  | 91  | 87  | 83  | 80  | 74 | 71 | 69 | 63 | 61 | 59 | 52 | 51 | 49 | 44 |
| 2   | 89  | 81  | 74  | 69  | 82  | 75  | 70  | 65  | 64 | 60 | 56 | 55 | 51 | 48 | 45 | 43 | 41 | 36 |
| 3   | 81  | 71  | 63  | 57  | 75  | 66  | 59  | 54  | 57 | 51 | 47 | 48 | 44 | 41 | 40 | 37 | 34 | 31 |
| 4   | 74  | 63  | 54  | 48  | 68  | 58  | 51  | 45  | 50 | 44 | 40 | 43 | 38 | 35 | 36 | 32 | 30 | 26 |
| 5   | 68  | 56  | 47  | 41  | 63  | 52  | 44  | 39  | 45 | 39 | 34 | 38 | 34 | 30 | 32 | 28 | 26 | 22 |
| 6   | 62  | 50  | 42  | 36  | 58  | 47  | 39  | 34  | 40 | 34 | 30 | 34 | 30 | 26 | 29 | 25 | 22 | 20 |
| 7   | 58  | 45  | 37  | 31  | 53  | 42  | 35  | 29  | 37 | 31 | 26 | 31 | 27 | 23 | 26 | 23 | 20 | 17 |
| 8   | 54  | 41  | 33  | 27  | 50  | 38  | 31  | 26  | 33 | 27 | 23 | 29 | 24 | 20 | 24 | 21 | 18 | 15 |
| 9   | 50  | 37  | 30  | 24  | 46  | 35  | 28  | 23  | 31 | 25 | 21 | 26 | 22 | 18 | 22 | 19 | 16 | 14 |
| 10  | 47  | 34  | 27  | 22  | 43  | 32  | 25  | 21  | 28 | 23 | 19 | 24 | 20 | 17 | 21 | 17 | 15 | 13 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6448 | 6448 | 6448 |
| 5°  | 6461 | 6330 | 6350 |
| 10° | 6415 | 6216 | 6207 |
| 15° | 6340 | 6081 | 6026 |
| 20° | 6237 | 5914 | 5845 |
| 25° | 6114 | 5735 | 5621 |
| 30° | 5965 | 5538 | 5419 |
| 35° | 5827 | 5357 | 5233 |
| 40° | 5686 | 5166 | 5046 |
| 45° | 5526 | 5003 | 4880 |
| 50° | 5375 | 4826 | 4733 |
| 55° | 5192 | 4659 | 4561 |
| 60° | 4992 | 4468 | 4385 |
| 65° | 4783 | 4270 | 4187 |
| 70° | 4546 | 3997 | 3985 |
| 75° | 4170 | 3735 | 3735 |
| 80° | 3682 | 3416 | 3463 |
| 85° | 3220 | 3204 | 3378 |



TEST NUMBER: P333217-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.4   | 1.8       |
| 10°-20°   | 268.0  | 5.0       |
| 20°-30°   | 398.6  | 7.5       |
| 30°-40°   | 472.1  | 8.9       |
| 40°-50°   | 488.1  | 9.2       |
| 50°-60°   | 449.7  | 8.4       |
| 60°-70°   | 363.5  | 6.8       |
| 70°-80°   | 243.4  | 4.6       |
| 80°-90°   | 127.8  | 2.4       |
| 90°-100°  | 97.2   | 1.8       |
| 100°-110° | 214.7  | 4.0       |
| 110°-120° | 329.7  | 6.2       |
| 120°-130° | 398.0  | 7.5       |
| 130°-140° | 415.4  | 7.8       |
| 140°-150° | 383.6  | 7.2       |
| 150°-160° | 308.9  | 5.8       |
| 160°-170° | 199.7  | 3.8       |
| 170°-180° | 68.9   | 1.3       |
| 0°-30°    | 761.0  | 14.3      |
| 0°-40°    | 1233.2 | 23.2      |
| 0°-60°    | 2171.0 | 40.8      |
| 0°-90°    | 2905.7 | 54.6      |
| 90°-120°  | 641.6  | 12.1      |
| 90°-150°  | 1838.6 | 34.5      |
| 90°-180°  | 2416.0 | 45.4      |
| 0°-180°   | 5321.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 998 | 998   | 998 | 998   | 998 |      |
| 5°   | 998 | 996   | 990 | 997   | 997 | 95   |
| 15°  | 954 | 954   | 948 | 953   | 950 | 268  |
| 25°  | 866 | 869   | 863 | 867   | 862 | 399  |
| 35°  | 750 | 756   | 754 | 757   | 757 | 469  |
| 45°  | 618 | 628   | 633 | 640   | 641 | 477  |
| 55°  | 475 | 490   | 506 | 516   | 521 | 424  |
| 65°  | 327 | 349   | 373 | 387   | 392 | 324  |
| 75°  | 180 | 206   | 237 | 256   | 261 | 191  |
| 85°  | 54  | 86    | 120 | 141   | 150 | 57   |
| 90°  | 16  | 52    | 89  | 113   | 122 | 12   |
| 95°  | 43  | 67    | 80  | 103   | 111 | 49   |
| 105° | 167 | 185   | 214 | 233   | 240 | 177  |
| 115° | 303 | 313   | 338 | 353   | 356 | 300  |
| 125° | 426 | 430   | 448 | 461   | 465 | 380  |
| 135° | 528 | 531   | 536 | 548   | 550 | 407  |
| 145° | 611 | 611   | 611 | 617   | 618 | 382  |
| 155° | 672 | 669   | 670 | 671   | 667 | 310  |
| 165° | 709 | 706   | 707 | 709   | 706 | 200  |
| 175° | 726 | 722   | 723 | 727   | 722 | 69   |
| 180° | 726 | 726   | 726 | 726   | 726 |      |



TEST NUMBER: P333217-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 998.4  | 998.4  | 998.4  | 998.4 | 998.4 | 998.4 | 998.4 | 998.4 | 998.4 | 998.4 | 998.4 |
| 2.5°   | 1000.8 | 1000.5 | 1000.1 | 999.8 | 999.4 | 998.6 | 997.4 | 996.2 | 994.9 | 993.7 | 994.9 |
| 5°     | 998.4  | 998.1  | 997.6  | 997.1 | 996.7 | 995.7 | 994.2 | 992.7 | 991.2 | 989.7 | 991.4 |
| 7.5°   | 989.7  | 989.5  | 989.3  | 989.1 | 988.9 | 988.1 | 986.6 | 985.0 | 983.4 | 981.8 | 983.4 |
| 10°    | 981.8  | 981.8  | 981.8  | 981.8 | 981.8 | 981.0 | 979.2 | 977.5 | 975.7 | 974.0 | 975.5 |
| 12.5°  | 970.8  | 971.0  | 971.2  | 971.4 | 971.6 | 970.9 | 969.6 | 968.2 | 966.8 | 965.4 | 966.6 |
| 15°    | 953.5  | 953.7  | 953.9  | 954.0 | 954.3 | 953.7 | 952.2 | 950.6 | 949.0 | 947.5 | 948.9 |
| 17.5°  | 930.8  | 931.1  | 931.6  | 932.0 | 932.5 | 931.9 | 930.4 | 928.9 | 927.4 | 925.9 | 926.8 |
| 20°    | 914.3  | 914.7  | 915.1  | 915.6 | 916.1 | 915.5 | 914.0 | 912.5 | 910.9 | 909.4 | 910.0 |
| 22.5°  | 895.5  | 896.3  | 897.0  | 897.9 | 898.6 | 898.1 | 896.5 | 894.8 | 893.1 | 891.4 | 892.2 |
| 25°    | 866.3  | 867.0  | 867.6  | 868.3 | 868.9 | 868.6 | 867.3 | 866.0 | 864.7 | 863.4 | 864.2 |
| 27.5°  | 833.8  | 834.8  | 835.8  | 836.7 | 837.6 | 837.4 | 835.9 | 834.4 | 832.9 | 831.5 | 832.1 |
| 30°    | 809.5  | 810.9  | 812.2  | 813.4 | 814.7 | 814.7 | 813.4 | 812.2 | 810.9 | 809.5 | 810.0 |
| 32.5°  | 787.6  | 788.7  | 789.9  | 791.0 | 792.1 | 792.2 | 791.3 | 790.3 | 789.4 | 788.4 | 788.8 |
| 35°    | 749.8  | 751.4  | 752.9  | 754.4 | 755.9 | 756.4 | 755.7 | 755.1 | 754.4 | 753.8 | 754.4 |
| 37.5°  | 712.0  | 713.4  | 714.8  | 716.2 | 717.7 | 718.2 | 717.9 | 717.7 | 717.6 | 717.4 | 718.2 |
| 40°    | 686.2  | 688.0  | 689.7  | 691.4 | 693.1 | 693.9 | 693.7 | 693.5 | 693.2 | 693.1 | 693.9 |
| 42.5°  | 658.0  | 660.3  | 662.5  | 664.8 | 667.0 | 668.5 | 668.9 | 669.4 | 669.9 | 670.3 | 671.4 |
| 45°    | 617.6  | 620.1  | 622.5  | 624.8 | 627.3 | 629.0 | 630.1 | 631.1 | 632.3 | 633.3 | 634.9 |
| 47.5°  | 576.4  | 578.6  | 580.8  | 583.1 | 585.2 | 587.3 | 589.2 | 591.1 | 592.9 | 594.7 | 597.0 |
| 50°    | 548.2  | 550.5  | 553.0  | 555.3 | 557.7 | 560.2 | 562.5 | 565.0 | 567.3 | 569.7 | 572.1 |
| 52.5°  | 518.4  | 521.3  | 524.2  | 527.2 | 530.1 | 533.0 | 535.9 | 538.9 | 541.8 | 544.7 | 547.2 |
| 55°    | 474.8  | 478.2  | 481.7  | 485.2 | 488.7 | 492.2 | 495.7 | 499.2 | 502.6 | 506.1 | 508.5 |
| 57.5°  | 430.1  | 434.3  | 438.5  | 442.6 | 446.9 | 450.9 | 455.0 | 458.9 | 462.9 | 466.9 | 469.7 |
| 60°    | 400.4  | 404.7  | 409.1  | 413.4 | 417.7 | 422.2 | 426.5 | 430.8 | 435.2 | 439.5 | 442.8 |
| 62.5°  | 371.4  | 375.7  | 380.1  | 384.5 | 388.8 | 393.3 | 398.0 | 402.7 | 407.4 | 412.1 | 415.8 |
| 65°    | 327.0  | 332.0  | 337.0  | 342.0 | 346.9 | 352.0 | 357.3 | 362.5 | 367.8 | 373.0 | 376.3 |
| 67.5°  | 285.0  | 289.9  | 294.7  | 299.5 | 304.3 | 309.4 | 314.7 | 320.1 | 325.4 | 330.6 | 334.6 |
| 70°    | 254.5  | 259.5  | 264.5  | 269.6 | 274.6 | 279.8 | 285.5 | 291.2 | 296.8 | 302.5 | 306.6 |
| 72.5°  | 224.8  | 229.9  | 235.1  | 240.3 | 245.4 | 251.1 | 257.3 | 263.5 | 269.7 | 275.9 | 280.3 |
| 75°    | 180.1  | 185.8  | 191.4  | 197.1 | 202.7 | 209.1 | 216.0 | 223.0 | 229.9 | 236.9 | 241.2 |
| 77.5°  | 137.2  | 143.7  | 150.3  | 156.8 | 163.3 | 169.9 | 176.6 | 183.3 | 190.0 | 196.8 | 201.5 |
| 80°    | 110.7  | 117.2  | 123.7  | 130.2 | 136.8 | 143.6 | 151.1 | 158.4 | 165.9 | 173.2 | 178.0 |
| 82.5°  | 86.3   | 93.2   | 100.1  | 107.0 | 113.9 | 121.0 | 128.7 | 136.2 | 143.7 | 151.4 | 156.0 |
| 85°    | 53.8   | 61.0   | 68.2   | 75.4  | 82.6  | 89.9  | 97.6  | 105.2 | 112.8 | 120.4 | 125.2 |
| 87.5°  | 30.6   | 37.8   | 45.0   | 52.1  | 59.3  | 66.6  | 74.2  | 81.7  | 89.3  | 96.9  | 102.0 |
| 90°    | 16.2   | 24.1   | 32.0   | 40.0  | 47.9  | 56.0  | 64.2  | 72.4  | 80.7  | 88.9  | 94.4  |
| 92.5°  | 22.3   | 28.2   | 33.9   | 39.7  | 45.4  | 52.5  | 60.8  | 69.1  | 77.4  | 85.8  | 91.1  |
| 95°    | 43.4   | 48.6   | 54.0   | 59.3  | 64.6  | 68.6  | 71.5  | 74.4  | 77.2  | 80.0  | 85.5  |
| 97.5°  | 75.5   | 81.2   | 87.0   | 92.7  | 98.5  | 100.5 | 98.6  | 96.7  | 94.9  | 93.0  | 94.3  |
| 100°   | 100.6  | 105.5  | 110.5  | 115.4 | 120.3 | 126.5 | 133.9 | 141.4 | 148.7 | 156.2 | 143.0 |
| 102.5° | 126.0  | 130.7  | 135.3  | 140.1 | 144.8 | 150.6 | 157.7 | 164.8 | 171.8 | 178.9 | 179.9 |
| 105°   | 166.9  | 170.9  | 174.8  | 178.8 | 182.8 | 187.9 | 194.5 | 201.0 | 207.5 | 214.1 | 218.5 |
| 107.5° | 209.4  | 212.4  | 215.3  | 218.3 | 221.2 | 225.9 | 232.4 | 238.9 | 245.4 | 251.9 | 256.3 |
| 110°   | 237.0  | 239.6  | 242.2  | 244.9 | 247.4 | 251.9 | 258.3 | 264.6 | 270.9 | 277.2 | 281.0 |



TEST NUMBER: P333217-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 263.7 | 266.1 | 268.4 | 270.8 | 273.1 | 277.4 | 283.4 | 289.5 | 295.6 | 301.6 | 305.2 |
| 115°   | 302.7 | 304.8 | 307.0 | 309.1 | 311.2 | 315.2 | 320.9 | 326.7 | 332.4 | 338.3 | 341.7 |
| 117.5° | 343.2 | 344.1 | 345.1 | 346.1 | 347.0 | 350.4 | 356.3 | 362.0 | 367.9 | 373.6 | 376.7 |
| 120°   | 368.9 | 369.5 | 370.0 | 370.5 | 371.1 | 374.0 | 379.4 | 384.7 | 390.1 | 395.5 | 399.0 |
| 122.5° | 391.0 | 391.7 | 392.5 | 393.2 | 394.0 | 396.9 | 401.9 | 406.9 | 411.9 | 416.9 | 420.2 |
| 125°   | 426.0 | 426.7 | 427.3 | 427.9 | 428.6 | 431.0 | 435.4 | 439.7 | 444.0 | 448.5 | 451.4 |
| 127.5° | 458.7 | 459.1 | 459.5 | 459.9 | 460.2 | 462.2 | 465.7 | 469.2 | 472.7 | 476.2 | 479.1 |
| 130°   | 479.4 | 479.8 | 480.1 | 480.5 | 480.9 | 482.7 | 485.9 | 489.0 | 492.2 | 495.3 | 498.0 |
| 132.5° | 499.3 | 499.9 | 500.6 | 501.2 | 501.8 | 503.2 | 505.3 | 507.4 | 509.4 | 511.6 | 514.5 |
| 135°   | 528.4 | 529.0 | 529.4 | 529.9 | 530.5 | 531.3 | 532.6 | 533.9 | 535.2 | 536.4 | 539.0 |
| 137.5° | 555.3 | 555.6 | 556.1 | 556.6 | 557.0 | 557.5 | 558.0 | 558.6 | 559.1 | 559.6 | 562.2 |
| 140°   | 572.1 | 572.3 | 572.6 | 572.8 | 573.1 | 573.2 | 573.3 | 573.4 | 573.5 | 573.6 | 576.3 |
| 142.5° | 588.0 | 588.0 | 588.0 | 587.9 | 587.9 | 588.0 | 588.1 | 588.4 | 588.6 | 588.8 | 590.9 |
| 145°   | 611.3 | 611.3 | 611.3 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 611.4 | 612.7 |
| 147.5° | 630.7 | 630.7 | 630.7 | 630.7 | 630.6 | 630.7 | 630.7 | 630.9 | 631.0 | 631.2 | 631.7 |
| 150°   | 643.7 | 643.5 | 643.2 | 643.0 | 642.7 | 642.7 | 643.0 | 643.2 | 643.5 | 643.7 | 643.9 |
| 152.5° | 656.2 | 655.6 | 655.2 | 654.6 | 654.0 | 653.9 | 654.1 | 654.4 | 654.6 | 654.9 | 655.2 |
| 155°   | 672.2 | 671.5 | 670.8 | 670.1 | 669.3 | 669.1 | 669.3 | 669.6 | 669.8 | 670.1 | 670.4 |
| 157.5° | 684.6 | 684.1 | 683.7 | 683.2 | 682.9 | 682.7 | 682.7 | 682.7 | 682.7 | 682.8 | 683.2 |
| 160°   | 693.1 | 692.5 | 691.7 | 691.0 | 690.3 | 690.0 | 690.1 | 690.2 | 690.3 | 690.5 | 691.0 |
| 162.5° | 700.0 | 699.4 | 698.6 | 697.9 | 697.2 | 696.9 | 697.0 | 697.1 | 697.2 | 697.4 | 698.0 |
| 165°   | 709.3 | 708.6 | 707.8 | 707.2 | 706.4 | 706.2 | 706.2 | 706.3 | 706.5 | 706.6 | 707.3 |
| 167.5° | 716.1 | 715.5 | 714.7 | 714.0 | 713.2 | 712.9 | 713.0 | 713.1 | 713.2 | 713.4 | 714.3 |
| 170°   | 720.1 | 719.3 | 718.4 | 717.6 | 716.7 | 716.3 | 716.4 | 716.6 | 716.7 | 716.8 | 717.7 |
| 172.5° | 722.6 | 721.8 | 721.0 | 720.1 | 719.3 | 719.0 | 719.2 | 719.4 | 719.6 | 719.8 | 720.7 |
| 175°   | 725.5 | 724.7 | 724.0 | 723.3 | 722.6 | 722.3 | 722.4 | 722.6 | 722.6 | 722.7 | 723.7 |
| 177.5° | 726.7 | 726.1 | 725.6 | 725.0 | 724.4 | 724.2 | 724.2 | 724.3 | 724.4 | 724.5 | 725.3 |
| 180°   | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 |



TEST NUMBER: P333217-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 998.4 | 998.4 | 998.4 | 998.4 | 998.4 | 998.4 | 998.4 | 998.4 |
| 2.5°   | 996.2 | 997.4 | 998.6 | 999.2 | 999.0 | 998.8 | 998.6 | 998.4 |
| 5°     | 993.2 | 994.9 | 996.6 | 997.4 | 997.1 | 996.9 | 996.7 | 996.6 |
| 7.5°   | 984.9 | 986.4 | 987.9 | 988.5 | 988.4 | 988.2 | 987.9 | 987.7 |
| 10°    | 977.0 | 978.5 | 980.1 | 980.7 | 980.5 | 980.3 | 980.1 | 979.9 |
| 12.5°  | 967.7 | 968.9 | 970.1 | 970.3 | 969.8 | 969.2 | 968.7 | 968.1 |
| 15°    | 950.2 | 951.5 | 952.8 | 953.0 | 952.2 | 951.2 | 950.4 | 949.5 |
| 17.5°  | 927.8 | 928.9 | 929.8 | 930.1 | 929.5 | 929.1 | 928.5 | 928.0 |
| 20°    | 910.7 | 911.3 | 912.0 | 912.3 | 912.3 | 912.3 | 912.3 | 912.3 |
| 22.5°  | 893.1 | 893.8 | 894.7 | 894.8 | 894.3 | 893.8 | 893.2 | 892.8 |
| 25°    | 865.2 | 866.0 | 866.9 | 866.8 | 865.6 | 864.6 | 863.5 | 862.4 |
| 27.5°  | 832.6 | 833.3 | 833.9 | 834.1 | 833.6 | 833.2 | 832.8 | 832.5 |
| 30°    | 810.4 | 810.9 | 811.2 | 811.4 | 811.2 | 811.0 | 810.8 | 810.5 |
| 32.5°  | 789.3 | 789.7 | 790.1 | 790.2 | 790.0 | 789.9 | 789.6 | 789.4 |
| 35°    | 755.1 | 755.7 | 756.4 | 756.7 | 756.7 | 756.7 | 756.7 | 756.7 |
| 37.5°  | 719.1 | 719.9 | 720.8 | 721.2 | 721.1 | 721.0 | 721.0 | 720.9 |
| 40°    | 694.7 | 695.7 | 696.5 | 697.2 | 697.6 | 698.0 | 698.5 | 698.9 |
| 42.5°  | 672.4 | 673.4 | 674.5 | 675.0 | 675.1 | 675.2 | 675.3 | 675.4 |
| 45°    | 636.4 | 637.9 | 639.4 | 640.3 | 640.6 | 640.7 | 640.9 | 641.2 |
| 47.5°  | 599.2 | 601.4 | 603.6 | 605.0 | 605.5 | 606.0 | 606.4 | 606.9 |
| 50°    | 574.5 | 576.9 | 579.3 | 580.8 | 581.5 | 582.1 | 582.8 | 583.4 |
| 52.5°  | 549.8 | 552.3 | 554.9 | 556.5 | 556.9 | 557.4 | 557.9 | 558.4 |
| 55°    | 510.9 | 513.3 | 515.7 | 517.3 | 518.1 | 519.1 | 519.9 | 520.8 |
| 57.5°  | 472.4 | 475.1 | 477.9 | 479.6 | 480.2 | 480.9 | 481.5 | 482.2 |
| 60°    | 446.0 | 449.3 | 452.6 | 454.5 | 455.2 | 455.8 | 456.5 | 457.1 |
| 62.5°  | 419.3 | 422.9 | 426.6 | 428.8 | 429.6 | 430.5 | 431.2 | 432.1 |
| 65°    | 379.5 | 382.8 | 386.0 | 388.0 | 389.0 | 389.8 | 390.7 | 391.5 |
| 67.5°  | 338.6 | 342.5 | 346.5 | 349.0 | 350.2 | 351.3 | 352.4 | 353.5 |
| 70°    | 310.8 | 314.9 | 319.1 | 321.7 | 323.0 | 324.3 | 325.6 | 327.0 |
| 72.5°  | 284.8 | 289.3 | 293.8 | 296.5 | 297.5 | 298.4 | 299.4 | 300.3 |
| 75°    | 245.6 | 250.0 | 254.3 | 257.0 | 258.1 | 259.2 | 260.2 | 261.4 |
| 77.5°  | 206.3 | 211.1 | 215.9 | 218.8 | 219.6 | 220.5 | 221.3 | 222.3 |
| 80°    | 182.9 | 187.7 | 192.4 | 195.2 | 196.1 | 197.0 | 197.8 | 198.7 |
| 82.5°  | 160.5 | 165.1 | 169.8 | 172.9 | 174.5 | 176.0 | 177.6 | 179.2 |
| 85°    | 130.0 | 134.8 | 139.6 | 142.8 | 144.6 | 146.3 | 148.1 | 149.8 |
| 87.5°  | 107.1 | 112.3 | 117.3 | 120.7 | 122.3 | 123.9 | 125.5 | 127.1 |
| 90°    | 100.1 | 105.7 | 111.3 | 115.0 | 116.9 | 118.8 | 120.6 | 122.5 |
| 92.5°  | 96.6  | 102.0 | 107.4 | 111.0 | 112.7 | 114.4 | 116.1 | 117.7 |
| 95°    | 90.9  | 96.2  | 101.6 | 105.1 | 106.6 | 108.1 | 109.6 | 111.1 |
| 97.5°  | 95.4  | 96.6  | 97.8  | 99.2  | 100.7 | 102.1 | 103.6 | 105.1 |
| 100°   | 129.8 | 116.5 | 103.3 | 97.1  | 97.9  | 98.7  | 99.5  | 100.4 |
| 102.5° | 181.0 | 182.0 | 183.0 | 180.1 | 173.2 | 166.5 | 159.7 | 152.8 |
| 105°   | 222.8 | 227.2 | 231.5 | 234.4 | 235.7 | 237.1 | 238.6 | 240.0 |
| 107.5° | 260.6 | 264.9 | 269.3 | 271.9 | 273.0 | 273.9 | 274.9 | 275.9 |
| 110°   | 284.8 | 288.6 | 292.4 | 295.0 | 296.7 | 298.3 | 300.0 | 301.6 |





TEST NUMBER: P333217-830

CATALOG NUMBER: S125DIP-S850D590U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 308.7 | 312.2 | 315.7 | 318.1 | 319.4 | 320.8 | 322.2 | 323.5 |
| 115°   | 345.2 | 348.6 | 352.0 | 354.0 | 354.6 | 355.2 | 355.8 | 356.4 |
| 117.5° | 379.8 | 382.9 | 386.0 | 388.0 | 389.3 | 390.4 | 391.6 | 392.8 |
| 120°   | 402.4 | 405.9 | 409.3 | 411.4 | 412.1 | 412.8 | 413.5 | 414.2 |
| 122.5° | 423.5 | 426.7 | 430.0 | 432.0 | 432.5 | 433.2 | 433.8 | 434.4 |
| 125°   | 454.4 | 457.4 | 460.4 | 462.3 | 463.0 | 463.7 | 464.5 | 465.2 |
| 127.5° | 482.1 | 485.0 | 488.0 | 489.7 | 490.0 | 490.4 | 490.8 | 491.2 |
| 130°   | 500.7 | 503.4 | 506.1 | 507.7 | 508.1 | 508.7 | 509.2 | 509.6 |
| 132.5° | 517.6 | 520.5 | 523.5 | 525.1 | 525.5 | 525.8 | 526.0 | 526.4 |
| 135°   | 541.6 | 544.2 | 546.8 | 548.3 | 548.7 | 549.0 | 549.4 | 549.8 |
| 137.5° | 564.9 | 567.4 | 570.0 | 571.5 | 571.7 | 572.0 | 572.2 | 572.5 |
| 140°   | 578.8 | 581.5 | 584.1 | 585.5 | 585.7 | 585.8 | 586.0 | 586.2 |
| 142.5° | 593.0 | 595.1 | 597.2 | 598.3 | 598.4 | 598.6 | 598.8 | 598.9 |
| 145°   | 613.9 | 615.0 | 616.2 | 616.9 | 617.1 | 617.3 | 617.4 | 617.6 |
| 147.5° | 632.2 | 632.7 | 633.2 | 633.2 | 632.7 | 632.3 | 631.8 | 631.3 |
| 150°   | 644.1 | 644.4 | 644.6 | 644.4 | 643.7 | 642.9 | 642.2 | 641.4 |
| 152.5° | 655.3 | 655.6 | 655.8 | 655.5 | 654.7 | 653.9 | 653.1 | 652.2 |
| 155°   | 670.8 | 671.1 | 671.5 | 671.2 | 670.2 | 669.3 | 668.4 | 667.3 |
| 157.5° | 683.5 | 683.9 | 684.3 | 684.0 | 683.1 | 682.0 | 681.1 | 680.1 |
| 160°   | 691.4 | 691.9 | 692.4 | 692.1 | 691.2 | 690.2 | 689.3 | 688.3 |
| 162.5° | 698.7 | 699.4 | 700.0 | 699.8 | 698.8 | 697.8 | 696.7 | 695.6 |
| 165°   | 708.0 | 708.8 | 709.5 | 709.4 | 708.4 | 707.5 | 706.5 | 705.5 |
| 167.5° | 715.1 | 716.0 | 716.8 | 716.7 | 715.7 | 714.5 | 713.5 | 712.4 |
| 170°   | 718.8 | 719.7 | 720.7 | 720.6 | 719.5 | 718.4 | 717.4 | 716.3 |
| 172.5° | 721.5 | 722.5 | 723.3 | 723.2 | 722.1 | 721.0 | 719.9 | 718.9 |
| 175°   | 724.6 | 725.6 | 726.6 | 726.5 | 725.5 | 724.3 | 723.3 | 722.2 |
| 177.5° | 725.9 | 726.6 | 727.3 | 727.2 | 726.4 | 725.7 | 724.9 | 724.2 |
| 180°   | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 |

(END OF REPORT)