

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: P331889-940

Luminaire Tested: **S123DIP-S340D805U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331889-940  
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-S340D805U940-4F0-1E-UDD-F  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 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: 4121.5 lumens  
Efficiency: N/A  
Efficacy: 132.1 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: Semi-Indirect

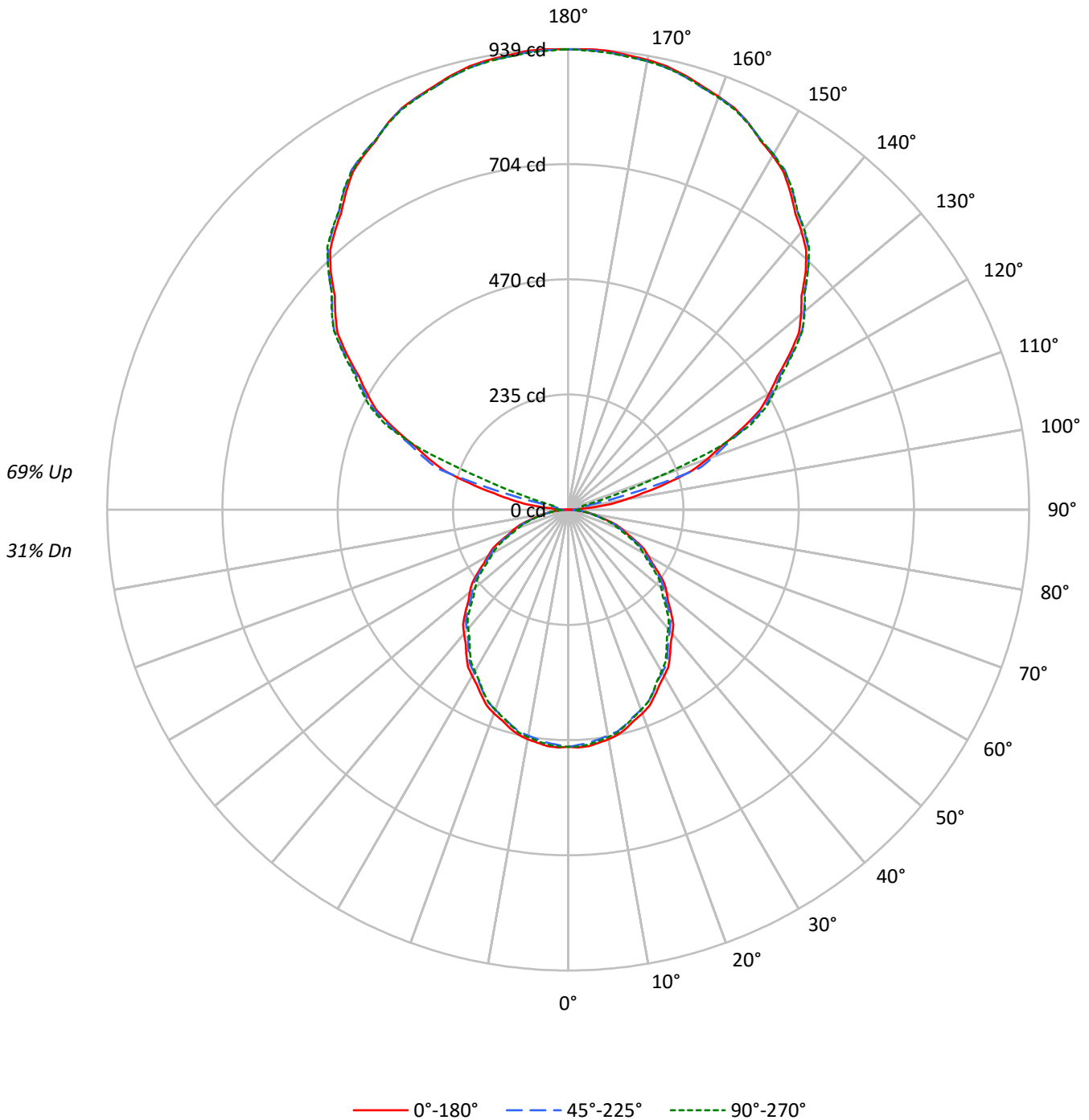
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331889-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P331889-940

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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   | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 38 | 38 | 38 | 31 |
| 1   | 93  | 89  | 85  | 82  | 84 | 80 | 77 | 74 | 63 | 61 | 59 | 48 | 47 | 45 | 34 | 33 | 32 | 26 |
| 2   | 85  | 78  | 72  | 67  | 76 | 70 | 65 | 61 | 55 | 52 | 49 | 42 | 40 | 38 | 30 | 28 | 27 | 21 |
| 3   | 77  | 68  | 61  | 56  | 69 | 62 | 56 | 51 | 49 | 45 | 41 | 37 | 34 | 32 | 26 | 24 | 23 | 18 |
| 4   | 71  | 60  | 53  | 47  | 63 | 54 | 48 | 43 | 43 | 39 | 35 | 33 | 30 | 27 | 23 | 21 | 20 | 16 |
| 5   | 65  | 54  | 46  | 40  | 58 | 48 | 42 | 37 | 39 | 34 | 30 | 30 | 26 | 23 | 21 | 19 | 17 | 13 |
| 6   | 60  | 48  | 40  | 34  | 53 | 43 | 37 | 32 | 35 | 30 | 26 | 27 | 23 | 20 | 19 | 17 | 15 | 12 |
| 7   | 55  | 43  | 35  | 30  | 49 | 39 | 32 | 28 | 31 | 26 | 23 | 24 | 21 | 18 | 17 | 15 | 13 | 10 |
| 8   | 51  | 39  | 32  | 26  | 46 | 35 | 29 | 24 | 29 | 24 | 20 | 22 | 19 | 16 | 16 | 14 | 12 | 9  |
| 9   | 47  | 36  | 28  | 23  | 42 | 32 | 26 | 22 | 26 | 21 | 18 | 20 | 17 | 14 | 15 | 12 | 11 | 8  |
| 10  | 44  | 32  | 25  | 21  | 40 | 30 | 23 | 19 | 24 | 19 | 16 | 19 | 15 | 13 | 14 | 11 | 10 | 8  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5201 | 5201 | 5201 |
| 5°  | 5226 | 5154 | 5190 |
| 10° | 5191 | 5109 | 5141 |
| 15° | 5131 | 5051 | 5060 |
| 20° | 5060 | 4969 | 4974 |
| 25° | 4963 | 4871 | 4861 |
| 30° | 4860 | 4762 | 4724 |
| 35° | 4750 | 4646 | 4586 |
| 40° | 4636 | 4519 | 4449 |
| 45° | 4509 | 4402 | 4294 |
| 50° | 4382 | 4258 | 4140 |
| 55° | 4219 | 4110 | 3984 |
| 60° | 4052 | 3935 | 3810 |
| 65° | 3904 | 3744 | 3629 |
| 70° | 3688 | 3531 | 3374 |
| 75° | 3373 | 3248 | 3111 |
| 80° | 3037 | 2913 | 2882 |
| 85° | 2668 | 2569 | 2470 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.5   | 1.1       |
| 10°-20°   | 128.5  | 3.1       |
| 20°-30°   | 189.9  | 4.6       |
| 30°-40°   | 221.8  | 5.4       |
| 40°-50°   | 223.0  | 5.4       |
| 50°-60°   | 195.8  | 4.8       |
| 60°-70°   | 145.9  | 3.5       |
| 70°-80°   | 83.1   | 2.0       |
| 80°-90°   | 26.5   | 0.6       |
| 90°-100°  | 34.1   | 0.8       |
| 100°-110° | 162.6  | 3.9       |
| 110°-120° | 390.6  | 9.5       |
| 120°-130° | 497.3  | 12.1      |
| 130°-140° | 531.4  | 12.9      |
| 140°-150° | 496.9  | 12.1      |
| 150°-160° | 400.8  | 9.7       |
| 160°-170° | 258.7  | 6.3       |
| 170°-180° | 89.2   | 2.2       |
| 0°-30°    | 363.9  | 8.8       |
| 0°-40°    | 585.7  | 14.2      |
| 0°-60°    | 1004.5 | 24.4      |
| 0°-90°    | 1260.0 | 30.6      |
| 90°-120°  | 587.3  | 14.2      |
| 90°-150°  | 2112.9 | 51.3      |
| 90°-180°  | 2862.0 | 69.4      |
| 0°-180°   | 4121.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 483 | 483   | 483 | 483   | 483 |      |
| 5°   | 484 | 481   | 477 | 481   | 480 | 46   |
| 15°  | 460 | 458   | 453 | 456   | 454 | 130  |
| 25°  | 418 | 415   | 410 | 410   | 409 | 192  |
| 35°  | 362 | 359   | 354 | 351   | 349 | 226  |
| 45°  | 296 | 294   | 289 | 284   | 282 | 229  |
| 55°  | 225 | 224   | 219 | 215   | 212 | 201  |
| 65°  | 153 | 151   | 147 | 144   | 142 | 151  |
| 75°  | 81  | 79    | 78  | 76    | 75  | 87   |
| 85°  | 22  | 21    | 21  | 20    | 20  | 24   |
| 90°  | 1   | 8     | 17  | 19    | 21  | 3    |
| 95°  | 42  | 16    | 22  | 26    | 26  | 53   |
| 105° | 208 | 212   | 153 | 36    | 31  | 220  |
| 115° | 390 | 394   | 400 | 407   | 410 | 385  |
| 125° | 549 | 555   | 558 | 559   | 560 | 490  |
| 135° | 684 | 688   | 691 | 693   | 691 | 526  |
| 145° | 789 | 794   | 795 | 797   | 797 | 494  |
| 155° | 869 | 868   | 869 | 872   | 868 | 400  |
| 165° | 917 | 915   | 914 | 919   | 915 | 259  |
| 175° | 938 | 935   | 936 | 940   | 935 | 89   |
| 180° | 938 | 938   | 938 | 938   | 938 |      |



TEST NUMBER: P331889-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 483.2 | 483.2 | 483.2 | 483.2 | 483.2 | 483.2 | 483.2 | 483.2 | 483.2 | 483.2 | 483.2 |
| 2.5°   | 484.9 | 484.6 | 484.3 | 484.0 | 483.7 | 483.1 | 482.3 | 481.5 | 480.7 | 479.9 | 480.6 |
| 5°     | 483.7 | 483.1 | 482.7 | 482.2 | 481.8 | 481.1 | 480.0 | 479.0 | 478.0 | 477.0 | 477.9 |
| 7.5°   | 478.9 | 478.4 | 478.0 | 477.5 | 477.1 | 476.3 | 475.3 | 474.2 | 473.1 | 472.1 | 472.9 |
| 10°    | 474.9 | 474.5 | 473.9 | 473.5 | 473.1 | 472.3 | 471.0 | 469.8 | 468.6 | 467.4 | 468.2 |
| 12.5°  | 469.6 | 469.2 | 468.8 | 468.4 | 468.1 | 467.3 | 466.2 | 465.0 | 463.9 | 462.8 | 463.4 |
| 15°    | 460.4 | 460.0 | 459.6 | 459.2 | 458.9 | 458.1 | 456.9 | 455.7 | 454.5 | 453.3 | 454.1 |
| 17.5°  | 449.6 | 449.2 | 448.7 | 448.2 | 447.7 | 446.9 | 445.7 | 444.5 | 443.3 | 442.1 | 442.6 |
| 20°    | 441.7 | 441.1 | 440.6 | 440.0 | 439.4 | 438.5 | 437.4 | 436.1 | 435.0 | 433.8 | 434.2 |
| 22.5°  | 432.7 | 432.1 | 431.6 | 431.1 | 430.5 | 429.6 | 428.4 | 427.2 | 426.0 | 424.8 | 425.1 |
| 25°    | 417.9 | 417.4 | 416.9 | 416.3 | 415.8 | 414.9 | 413.7 | 412.5 | 411.3 | 410.1 | 410.2 |
| 27.5°  | 402.3 | 401.7 | 401.2 | 400.6 | 400.1 | 399.2 | 398.0 | 396.6 | 395.4 | 394.0 | 394.1 |
| 30°    | 391.0 | 390.5 | 390.0 | 389.6 | 389.1 | 388.3 | 387.0 | 385.7 | 384.4 | 383.1 | 383.1 |
| 32.5°  | 379.7 | 379.1 | 378.4 | 377.8 | 377.3 | 376.4 | 375.4 | 374.4 | 373.4 | 372.5 | 371.9 |
| 35°    | 361.5 | 361.0 | 360.3 | 359.8 | 359.3 | 358.4 | 357.2 | 356.0 | 354.8 | 353.6 | 353.0 |
| 37.5°  | 342.9 | 342.1 | 341.4 | 340.7 | 340.1 | 339.1 | 337.9 | 336.6 | 335.5 | 334.2 | 333.6 |
| 40°    | 329.9 | 329.3 | 328.8 | 328.2 | 327.7 | 326.7 | 325.5 | 324.1 | 322.9 | 321.6 | 320.8 |
| 42.5°  | 316.9 | 316.3 | 315.7 | 315.0 | 314.4 | 313.4 | 312.2 | 310.9 | 309.6 | 308.3 | 307.6 |
| 45°    | 296.2 | 295.9 | 295.5 | 295.2 | 294.8 | 294.0 | 292.7 | 291.6 | 290.3 | 289.2 | 288.1 |
| 47.5°  | 275.7 | 275.2 | 274.6 | 274.1 | 273.6 | 272.8 | 271.6 | 270.5 | 269.4 | 268.2 | 267.2 |
| 50°    | 261.7 | 261.3 | 260.8 | 260.4 | 259.9 | 259.0 | 257.9 | 256.7 | 255.5 | 254.3 | 253.2 |
| 52.5°  | 247.1 | 246.8 | 246.5 | 246.2 | 245.8 | 245.0 | 243.8 | 242.5 | 241.3 | 240.0 | 239.2 |
| 55°    | 224.8 | 224.7 | 224.6 | 224.5 | 224.4 | 223.7 | 222.6 | 221.3 | 220.2 | 219.0 | 217.9 |
| 57.5°  | 203.5 | 203.2 | 202.9 | 202.6 | 202.2 | 201.6 | 200.6 | 199.7 | 198.8 | 197.8 | 196.9 |
| 60°    | 188.2 | 188.2 | 188.1 | 188.0 | 187.9 | 187.3 | 186.1 | 185.0 | 184.0 | 182.8 | 182.0 |
| 62.5°  | 174.6 | 174.3 | 174.2 | 173.9 | 173.6 | 173.0 | 171.8 | 170.8 | 169.6 | 168.5 | 167.7 |
| 65°    | 153.3 | 152.8 | 152.4 | 151.9 | 151.5 | 150.8 | 149.9 | 148.9 | 148.0 | 147.0 | 146.3 |
| 67.5°  | 130.8 | 130.4 | 130.0 | 129.6 | 129.2 | 128.6 | 128.0 | 127.2 | 126.5 | 125.8 | 125.2 |
| 70°    | 117.2 | 116.6 | 116.1 | 115.5 | 114.9 | 114.4 | 113.9 | 113.2 | 112.7 | 112.2 | 111.6 |
| 72.5°  | 102.9 | 102.5 | 102.1 | 101.7 | 101.2 | 100.8 | 100.1 | 99.5  | 98.9  | 98.3  | 97.6  |
| 75°    | 81.1  | 80.6  | 80.3  | 79.9  | 79.5  | 79.2  | 78.9  | 78.6  | 78.4  | 78.1  | 77.7  |
| 77.5°  | 61.6  | 61.4  | 61.3  | 61.1  | 60.8  | 60.5  | 60.3  | 59.9  | 59.6  | 59.2  | 58.9  |
| 80°    | 49.0  | 48.8  | 48.5  | 48.2  | 47.9  | 47.7  | 47.5  | 47.3  | 47.2  | 47.0  | 46.8  |
| 82.5°  | 36.7  | 36.6  | 36.6  | 36.6  | 36.5  | 36.5  | 36.4  | 36.4  | 36.4  | 36.3  | 36.1  |
| 85°    | 21.6  | 21.4  | 21.2  | 21.0  | 20.9  | 20.8  | 20.8  | 20.8  | 20.8  | 20.8  | 20.6  |
| 87.5°  | 8.7   | 8.8   | 8.9   | 9.0   | 9.1   | 9.4   | 9.6   | 10.0  | 10.3  | 10.7  | 10.7  |
| 90°    | 0.7   | 2.2   | 3.8   | 5.4   | 6.9   | 8.6   | 10.7  | 12.7  | 14.7  | 16.8  | 17.4  |
| 92.5°  | 12.9  | 12.6  | 12.1  | 11.7  | 11.2  | 11.8  | 13.3  | 14.8  | 16.3  | 17.8  | 18.8  |
| 95°    | 42.5  | 36.2  | 29.8  | 23.5  | 17.1  | 14.8  | 16.5  | 18.2  | 19.9  | 21.6  | 22.7  |
| 97.5°  | 85.4  | 82.7  | 79.8  | 77.0  | 74.1  | 67.1  | 55.9  | 44.8  | 33.6  | 22.5  | 23.7  |
| 100°   | 117.8 | 120.9 | 124.0 | 127.1 | 130.2 | 119.7 | 95.5  | 71.3  | 47.2  | 23.0  | 24.3  |
| 102.5° | 154.6 | 156.9 | 159.1 | 161.3 | 163.5 | 151.5 | 125.1 | 98.6  | 72.2  | 45.8  | 42.0  |
| 105°   | 207.8 | 209.5 | 211.2 | 212.9 | 214.5 | 208.5 | 194.5 | 180.6 | 166.6 | 152.7 | 125.3 |
| 107.5° | 263.8 | 265.2 | 266.5 | 267.9 | 269.2 | 271.0 | 273.2 | 275.4 | 277.6 | 279.8 | 259.8 |
| 110°   | 301.1 | 302.4 | 303.6 | 304.9 | 306.1 | 307.6 | 309.3 | 311.0 | 312.7 | 314.4 | 309.3 |



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CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 336.9 | 338.0 | 339.1 | 340.2 | 341.3 | 342.7 | 344.5 | 346.2 | 347.9 | 349.6 | 349.6 |
| 115°   | 389.7 | 390.7 | 391.6 | 392.5 | 393.4 | 394.6 | 396.0 | 397.3 | 398.8 | 400.2 | 401.7 |
| 117.5° | 440.9 | 442.0 | 443.2 | 444.3 | 445.4 | 446.4 | 447.1 | 447.8 | 448.5 | 449.2 | 450.5 |
| 120°   | 472.7 | 474.0 | 475.5 | 476.8 | 478.2 | 479.2 | 479.7 | 480.1 | 480.5 | 481.0 | 482.2 |
| 122.5° | 505.0 | 506.1 | 507.3 | 508.5 | 509.6 | 510.4 | 511.0 | 511.7 | 512.2 | 512.8 | 513.7 |
| 125°   | 549.4 | 550.5 | 551.8 | 553.0 | 554.3 | 555.3 | 555.9 | 556.4 | 557.1 | 557.7 | 558.0 |
| 127.5° | 592.3 | 593.5 | 594.8 | 596.0 | 597.3 | 598.2 | 599.0 | 599.8 | 600.5 | 601.2 | 601.7 |
| 130°   | 619.0 | 620.3 | 621.5 | 622.8 | 624.0 | 624.9 | 625.5 | 626.2 | 626.8 | 627.4 | 628.0 |
| 132.5° | 644.7 | 646.0 | 647.2 | 648.5 | 649.7 | 650.5 | 651.0 | 651.5 | 652.0 | 652.6 | 653.2 |
| 135°   | 683.9 | 684.8 | 685.7 | 686.7 | 687.6 | 688.4 | 689.0 | 689.6 | 690.3 | 690.9 | 691.3 |
| 137.5° | 717.4 | 718.5 | 719.7 | 720.9 | 722.0 | 722.8 | 723.2 | 723.5 | 723.8 | 724.2 | 725.0 |
| 140°   | 739.7 | 740.6 | 741.5 | 742.4 | 743.4 | 744.0 | 744.6 | 745.0 | 745.5 | 745.9 | 746.5 |
| 142.5° | 760.3 | 761.3 | 762.1 | 763.1 | 764.0 | 764.7 | 765.2 | 765.6 | 766.1 | 766.6 | 767.0 |
| 145°   | 789.2 | 790.2 | 791.3 | 792.4 | 793.5 | 794.2 | 794.5 | 794.8 | 795.1 | 795.4 | 795.8 |
| 147.5° | 816.4 | 817.1 | 817.8 | 818.5 | 819.2 | 819.7 | 820.0 | 820.3 | 820.6 | 820.9 | 821.3 |
| 150°   | 833.0 | 833.6 | 834.0 | 834.5 | 834.9 | 835.4 | 835.6 | 836.0 | 836.2 | 836.6 | 836.9 |
| 152.5° | 848.1 | 848.4 | 848.6 | 848.8 | 849.0 | 849.2 | 849.4 | 849.5 | 849.8 | 850.0 | 850.5 |
| 155°   | 869.3 | 869.1 | 868.7 | 868.4 | 868.1 | 868.0 | 868.2 | 868.3 | 868.4 | 868.6 | 869.4 |
| 157.5° | 885.7 | 885.7 | 885.7 | 885.6 | 885.6 | 885.6 | 885.4 | 885.3 | 885.1 | 884.9 | 885.9 |
| 160°   | 895.8 | 895.6 | 895.5 | 895.4 | 895.2 | 895.0 | 894.9 | 894.7 | 894.6 | 894.4 | 895.4 |
| 162.5° | 905.3 | 904.9 | 904.5 | 904.1 | 903.7 | 903.4 | 903.2 | 903.1 | 902.9 | 902.8 | 903.8 |
| 165°   | 916.8 | 916.2 | 915.8 | 915.3 | 914.9 | 914.5 | 914.4 | 914.3 | 914.1 | 913.9 | 915.2 |
| 167.5° | 925.7 | 925.1 | 924.4 | 923.8 | 923.2 | 922.8 | 922.8 | 922.8 | 922.8 | 922.8 | 924.1 |
| 170°   | 930.7 | 930.1 | 929.4 | 928.8 | 928.2 | 927.9 | 927.9 | 927.9 | 927.9 | 927.9 | 929.2 |
| 172.5° | 934.0 | 933.3 | 932.6 | 931.7 | 931.0 | 930.8 | 930.9 | 930.9 | 931.1 | 931.2 | 932.5 |
| 175°   | 938.3 | 937.5 | 936.8 | 936.0 | 935.2 | 935.0 | 935.0 | 935.2 | 935.4 | 935.6 | 936.7 |
| 177.5° | 939.4 | 938.9 | 938.3 | 937.6 | 937.0 | 936.7 | 936.8 | 937.0 | 937.1 | 937.2 | 938.3 |
| 180°   | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 |



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CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 483.2 | 483.2 | 483.2 | 483.2 | 483.2 | 483.2 | 483.2 | 483.2 |
| 2.5°   | 481.3 | 482.1 | 482.9 | 483.2 | 483.1 | 483.0 | 483.0 | 482.9 |
| 5°     | 478.8 | 479.7 | 480.7 | 481.1 | 480.9 | 480.7 | 480.5 | 480.3 |
| 7.5°   | 473.8 | 474.6 | 475.4 | 475.7 | 475.6 | 475.5 | 475.5 | 475.3 |
| 10°    | 469.1 | 469.9 | 470.7 | 471.1 | 470.9 | 470.7 | 470.6 | 470.4 |
| 12.5°  | 464.0 | 464.6 | 465.2 | 465.5 | 465.4 | 465.2 | 465.1 | 465.0 |
| 15°    | 454.8 | 455.5 | 456.3 | 456.4 | 455.8 | 455.2 | 454.7 | 454.1 |
| 17.5°  | 443.1 | 443.6 | 444.2 | 444.3 | 444.1 | 443.9 | 443.7 | 443.5 |
| 20°    | 434.5 | 434.9 | 435.2 | 435.3 | 435.0 | 434.7 | 434.4 | 434.2 |
| 22.5°  | 425.3 | 425.7 | 426.0 | 426.0 | 425.6 | 425.3 | 424.9 | 424.5 |
| 25°    | 410.3 | 410.4 | 410.5 | 410.4 | 410.1 | 409.8 | 409.6 | 409.3 |
| 27.5°  | 394.2 | 394.3 | 394.3 | 394.2 | 393.9 | 393.5 | 393.2 | 392.8 |
| 30°    | 383.1 | 383.1 | 383.1 | 382.7 | 382.1 | 381.5 | 380.8 | 380.1 |
| 32.5°  | 371.4 | 370.9 | 370.4 | 370.0 | 369.6 | 369.3 | 368.9 | 368.5 |
| 35°    | 352.5 | 352.0 | 351.3 | 350.9 | 350.4 | 349.9 | 349.5 | 349.0 |
| 37.5°  | 332.9 | 332.3 | 331.5 | 331.1 | 330.8 | 330.5 | 330.2 | 329.9 |
| 40°    | 320.1 | 319.4 | 318.6 | 318.1 | 317.7 | 317.4 | 317.0 | 316.6 |
| 42.5°  | 306.8 | 306.0 | 305.3 | 304.8 | 304.4 | 304.1 | 303.7 | 303.3 |
| 45°    | 287.0 | 285.9 | 284.7 | 284.0 | 283.5 | 283.0 | 282.6 | 282.1 |
| 47.5°  | 266.1 | 265.0 | 263.9 | 263.1 | 262.7 | 262.3 | 261.9 | 261.5 |
| 50°    | 252.3 | 251.2 | 250.2 | 249.4 | 248.9 | 248.3 | 247.8 | 247.2 |
| 52.5°  | 238.3 | 237.4 | 236.5 | 235.8 | 235.2 | 234.7 | 234.2 | 233.6 |
| 55°    | 217.0 | 215.9 | 214.9 | 214.2 | 213.7 | 213.2 | 212.8 | 212.3 |
| 57.5°  | 196.0 | 195.0 | 194.1 | 193.4 | 192.9 | 192.3 | 191.8 | 191.3 |
| 60°    | 181.2 | 180.3 | 179.5 | 178.9 | 178.3 | 177.9 | 177.5 | 177.0 |
| 62.5°  | 166.8 | 166.0 | 165.2 | 164.6 | 164.3 | 164.0 | 163.7 | 163.4 |
| 65°    | 145.6 | 144.9 | 144.1 | 143.7 | 143.4 | 143.0 | 142.8 | 142.5 |
| 67.5°  | 124.5 | 123.9 | 123.2 | 122.7 | 122.3 | 121.9 | 121.5 | 121.2 |
| 70°    | 110.9 | 110.2 | 109.6 | 109.1 | 108.6 | 108.2 | 107.6 | 107.2 |
| 72.5°  | 97.1  | 96.5  | 95.9  | 95.5  | 95.3  | 95.1  | 94.8  | 94.5  |
| 75°    | 77.2  | 76.7  | 76.2  | 75.9  | 75.6  | 75.3  | 75.1  | 74.8  |
| 77.5°  | 58.6  | 58.3  | 58.0  | 57.9  | 57.9  | 57.9  | 57.9  | 57.9  |
| 80°    | 46.7  | 46.6  | 46.5  | 46.5  | 46.5  | 46.5  | 46.5  | 46.5  |
| 82.5°  | 36.0  | 35.8  | 35.7  | 35.5  | 35.5  | 35.4  | 35.3  | 35.2  |
| 85°    | 20.4  | 20.2  | 20.1  | 20.0  | 20.0  | 20.0  | 20.0  | 20.0  |
| 87.5°  | 10.8  | 10.8  | 10.9  | 10.9  | 11.0  | 11.1  | 11.1  | 11.1  |
| 90°    | 18.0  | 18.5  | 19.2  | 19.7  | 20.0  | 20.3  | 20.6  | 21.0  |
| 92.5°  | 19.8  | 20.8  | 21.8  | 22.4  | 22.6  | 22.7  | 22.9  | 23.2  |
| 95°    | 23.8  | 24.9  | 25.9  | 26.5  | 26.5  | 26.5  | 26.5  | 26.5  |
| 97.5°  | 25.0  | 26.1  | 27.4  | 28.1  | 28.3  | 28.4  | 28.5  | 28.7  |
| 100°   | 25.5  | 26.8  | 28.0  | 28.6  | 28.8  | 29.0  | 29.2  | 29.2  |
| 102.5° | 38.2  | 34.3  | 30.5  | 28.7  | 29.0  | 29.2  | 29.5  | 29.9  |
| 105°   | 97.8  | 70.4  | 43.0  | 29.4  | 29.8  | 30.1  | 30.4  | 30.7  |
| 107.5° | 239.6 | 219.5 | 199.4 | 179.0 | 158.4 | 137.7 | 117.0 | 96.3  |
| 110°   | 304.2 | 299.1 | 294.0 | 280.4 | 258.2 | 236.0 | 213.8 | 191.7 |





TEST NUMBER: P331889-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 349.7 | 349.8 | 349.9 | 347.6 | 343.0 | 338.2 | 333.6 | 329.0 |
| 115°   | 403.2 | 404.8 | 406.4 | 407.4 | 408.0 | 408.7 | 409.3 | 409.9 |
| 117.5° | 451.7 | 453.0 | 454.1 | 454.9 | 455.0 | 455.1 | 455.2 | 455.4 |
| 120°   | 483.5 | 484.7 | 486.0 | 486.6 | 486.6 | 486.6 | 486.6 | 486.6 |
| 122.5° | 514.5 | 515.4 | 516.3 | 516.7 | 516.9 | 517.0 | 517.2 | 517.3 |
| 125°   | 558.3 | 558.7 | 558.9 | 559.3 | 559.5 | 559.9 | 560.2 | 560.5 |
| 127.5° | 602.2 | 602.7 | 603.2 | 603.2 | 603.0 | 602.7 | 602.4 | 602.1 |
| 130°   | 628.7 | 629.3 | 629.9 | 630.1 | 629.7 | 629.5 | 629.1 | 628.8 |
| 132.5° | 653.7 | 654.3 | 655.0 | 655.1 | 654.7 | 654.2 | 653.8 | 653.4 |
| 135°   | 691.8 | 692.2 | 692.7 | 692.7 | 692.2 | 691.8 | 691.3 | 690.9 |
| 137.5° | 725.7 | 726.4 | 727.2 | 727.4 | 727.1 | 726.7 | 726.5 | 726.1 |
| 140°   | 747.2 | 747.8 | 748.4 | 748.6 | 748.2 | 748.0 | 747.6 | 747.3 |
| 142.5° | 767.6 | 768.0 | 768.6 | 768.6 | 768.1 | 767.7 | 767.3 | 766.9 |
| 145°   | 796.0 | 796.4 | 796.7 | 796.8 | 796.8 | 796.8 | 796.8 | 796.8 |
| 147.5° | 821.5 | 821.9 | 822.2 | 822.0 | 821.3 | 820.6 | 819.8 | 819.1 |
| 150°   | 837.1 | 837.5 | 837.8 | 837.8 | 837.2 | 836.8 | 836.3 | 835.9 |
| 152.5° | 851.0 | 851.6 | 852.2 | 852.1 | 851.4 | 850.7 | 850.0 | 849.3 |
| 155°   | 870.2 | 870.9 | 871.7 | 871.6 | 870.8 | 869.8 | 868.9 | 867.9 |
| 157.5° | 886.8 | 887.7 | 888.7 | 888.5 | 887.3 | 886.1 | 884.9 | 883.7 |
| 160°   | 896.3 | 897.2 | 898.1 | 898.0 | 897.0 | 895.9 | 894.8 | 893.8 |
| 162.5° | 904.9 | 906.0 | 907.0 | 907.0 | 906.1 | 905.1 | 904.2 | 903.2 |
| 165°   | 916.4 | 917.7 | 918.9 | 919.0 | 917.9 | 916.8 | 915.7 | 914.6 |
| 167.5° | 925.3 | 926.6 | 927.8 | 927.8 | 926.6 | 925.3 | 924.1 | 922.8 |
| 170°   | 930.3 | 931.6 | 932.8 | 932.8 | 931.6 | 930.3 | 929.2 | 927.9 |
| 172.5° | 933.7 | 935.0 | 936.2 | 936.1 | 934.8 | 933.4 | 932.0 | 930.7 |
| 175°   | 937.7 | 938.8 | 939.9 | 939.8 | 938.6 | 937.4 | 936.1 | 934.9 |
| 177.5° | 939.2 | 940.2 | 941.2 | 941.1 | 939.9 | 938.6 | 937.4 | 936.1 |
| 180°   | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 | 938.3 |

(END OF REPORT)