

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: P331886-940

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331886-940  
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-D  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4145.9 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

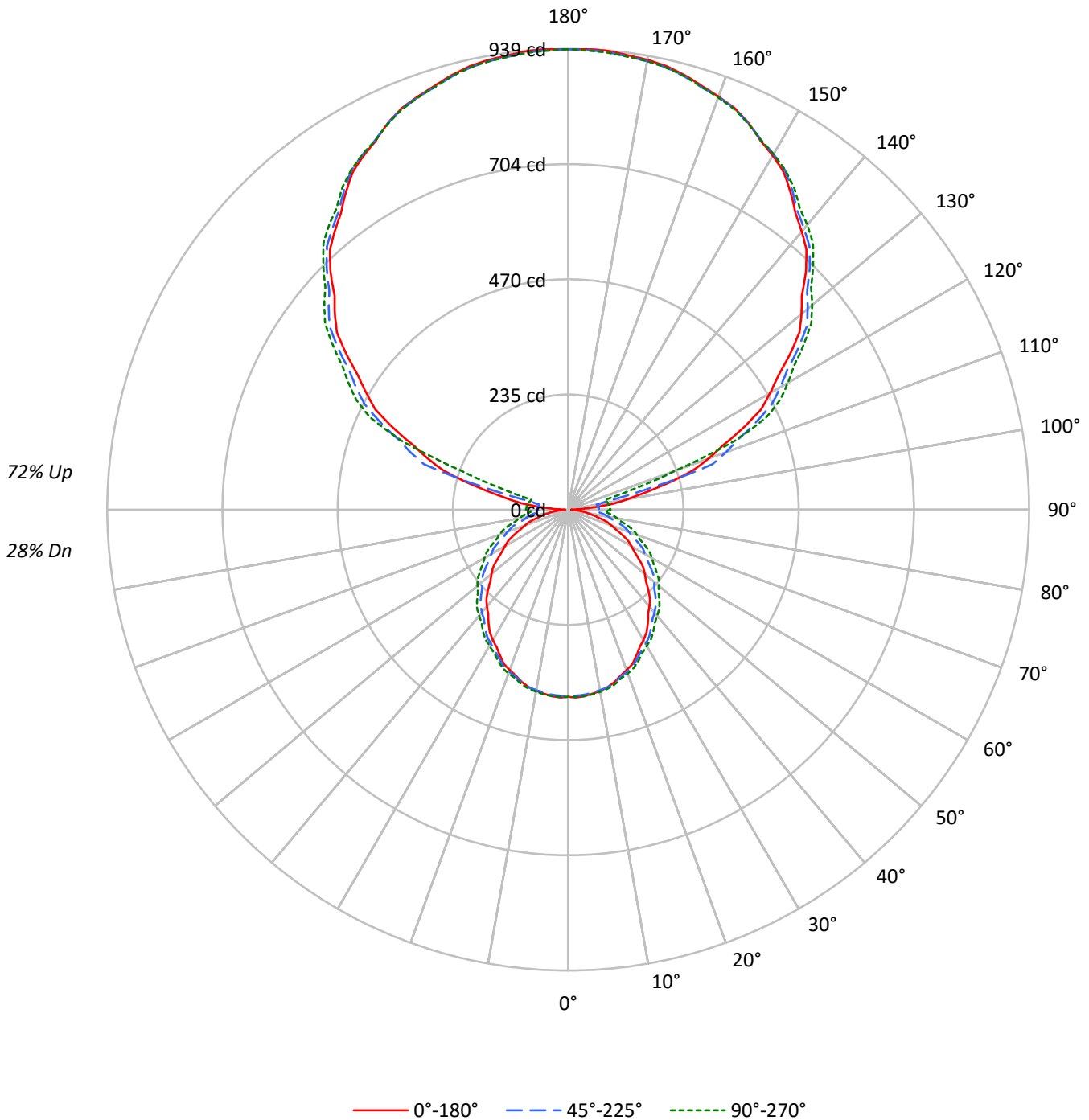
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331886-940

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

### Luminous Intensity Polar Plot





TEST NUMBER: P331886-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 36 | 36 | 36 | 28 |
| 1   | 92  | 88  | 84  | 80  | 82 | 79 | 75 | 72 | 61 | 59 | 57 | 46 | 44 | 43 | 31 | 30 | 29 | 23 |
| 2   | 84  | 76  | 70  | 65  | 75 | 68 | 63 | 59 | 53 | 50 | 47 | 40 | 37 | 35 | 27 | 26 | 24 | 18 |
| 3   | 76  | 67  | 60  | 54  | 68 | 60 | 54 | 49 | 47 | 43 | 39 | 35 | 32 | 29 | 24 | 22 | 20 | 15 |
| 4   | 70  | 59  | 51  | 45  | 62 | 53 | 46 | 41 | 41 | 37 | 33 | 31 | 28 | 25 | 21 | 19 | 17 | 13 |
| 5   | 64  | 52  | 44  | 38  | 57 | 47 | 40 | 35 | 37 | 32 | 28 | 28 | 24 | 21 | 19 | 17 | 15 | 11 |
| 6   | 59  | 47  | 39  | 33  | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 25 | 21 | 19 | 17 | 15 | 13 | 10 |
| 7   | 54  | 42  | 34  | 29  | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 22 | 19 | 16 | 16 | 13 | 12 | 9  |
| 8   | 50  | 38  | 30  | 25  | 45 | 34 | 28 | 23 | 27 | 22 | 19 | 20 | 17 | 14 | 14 | 12 | 10 | 8  |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 25 | 20 | 25 | 20 | 17 | 19 | 15 | 13 | 13 | 11 | 9  | 7  |
| 10  | 43  | 31  | 24  | 20  | 39 | 28 | 22 | 18 | 23 | 18 | 15 | 17 | 14 | 12 | 12 | 10 | 8  | 6  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4105 | 4105 | 4105 |
| 5°  | 4118 | 4002 | 4004 |
| 10° | 4082 | 3910 | 3890 |
| 15° | 4029 | 3805 | 3766 |
| 20° | 3954 | 3686 | 3630 |
| 25° | 3860 | 3549 | 3485 |
| 30° | 3767 | 3425 | 3339 |
| 35° | 3659 | 3294 | 3223 |
| 40° | 3557 | 3175 | 3098 |
| 45° | 3445 | 3060 | 2998 |
| 50° | 3333 | 2947 | 2888 |
| 55° | 3211 | 2831 | 2789 |
| 60° | 3090 | 2713 | 2689 |
| 65° | 2967 | 2588 | 2567 |
| 70° | 2783 | 2448 | 2443 |
| 75° | 2551 | 2287 | 2318 |
| 80° | 2278 | 2128 | 2175 |
| 85° | 2025 | 2018 | 2090 |



TEST NUMBER: P331886-940

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

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.2   | 0.9       |
| 10°-20°   | 103.1  | 2.5       |
| 20°-30°   | 154.2  | 3.7       |
| 30°-40°   | 184.1  | 4.4       |
| 40°-50°   | 192.6  | 4.6       |
| 50°-60°   | 180.7  | 4.4       |
| 60°-70°   | 151.0  | 3.6       |
| 70°-80°   | 108.0  | 2.6       |
| 80°-90°   | 67.0   | 1.6       |
| 90°-100°  | 74.5   | 1.8       |
| 100°-110° | 192.3  | 4.6       |
| 110°-120° | 410.4  | 9.9       |
| 120°-130° | 508.7  | 12.3      |
| 130°-140° | 536.5  | 12.9      |
| 140°-150° | 498.0  | 12.0      |
| 150°-160° | 400.8  | 9.7       |
| 160°-170° | 258.7  | 6.2       |
| 170°-180° | 89.2   | 2.2       |
| 0°-30°    | 293.4  | 7.1       |
| 0°-40°    | 477.5  | 11.5      |
| 0°-60°    | 850.9  | 20.5      |
| 0°-90°    | 1176.9 | 28.4      |
| 90°-120°  | 677.2  | 16.3      |
| 90°-150°  | 2220.3 | 53.6      |
| 90°-180°  | 2969.0 | 71.6      |
| 0°-180°   | 4145.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 381 | 381   | 381 | 381   | 381 |      |
| 5°   | 382 | 381   | 378 | 382   | 381 | 36   |
| 15°  | 364 | 365   | 364 | 368   | 368 | 102  |
| 25°  | 328 | 332   | 334 | 339   | 339 | 151  |
| 35°  | 282 | 289   | 295 | 301   | 302 | 177  |
| 45°  | 231 | 241   | 251 | 259   | 263 | 178  |
| 55°  | 176 | 190   | 205 | 216   | 219 | 158  |
| 65°  | 122 | 138   | 156 | 168   | 173 | 120  |
| 75°  | 66  | 86    | 106 | 120   | 125 | 71   |
| 85°  | 20  | 41    | 63  | 77    | 81  | 21   |
| 90°  | 6   | 34    | 64  | 80    | 86  | 6    |
| 95°  | 47  | 37    | 63  | 80    | 85  | 56   |
| 105° | 211 | 225   | 184 | 79    | 77  | 224  |
| 115° | 392 | 402   | 422 | 438   | 445 | 387  |
| 125° | 551 | 557   | 571 | 581   | 585 | 492  |
| 135° | 685 | 689   | 696 | 705   | 705 | 527  |
| 145° | 790 | 794   | 795 | 800   | 802 | 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: P331886-940

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

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 381.4 | 381.4 | 381.4 | 381.4 | 381.4 | 381.4 | 381.4 | 381.4 | 381.4 | 381.4 | 381.4 |
| 2.5°   | 383.1 | 382.9 | 382.6 | 382.5 | 382.2 | 381.8 | 381.2 | 380.6 | 380.0 | 379.4 | 380.0 |
| 5°     | 381.8 | 381.7 | 381.5 | 381.3 | 381.1 | 380.8 | 380.1 | 379.6 | 379.1 | 378.5 | 379.2 |
| 7.5°   | 378.1 | 378.2 | 378.2 | 378.2 | 378.3 | 378.0 | 377.5 | 376.9 | 376.4 | 375.9 | 376.7 |
| 10°    | 374.8 | 375.0 | 375.1 | 375.3 | 375.5 | 375.4 | 374.9 | 374.4 | 374.0 | 373.5 | 374.4 |
| 12.5°  | 370.8 | 371.0 | 371.3 | 371.6 | 371.8 | 371.8 | 371.5 | 371.1 | 370.9 | 370.5 | 371.4 |
| 15°    | 363.6 | 363.8 | 364.1 | 364.4 | 364.6 | 364.8 | 364.6 | 364.5 | 364.4 | 364.4 | 365.3 |
| 17.5°  | 354.5 | 355.0 | 355.5 | 356.1 | 356.6 | 356.9 | 356.9 | 356.8 | 356.8 | 356.8 | 357.6 |
| 20°    | 347.8 | 348.3 | 348.8 | 349.5 | 350.0 | 350.4 | 350.5 | 350.7 | 350.9 | 351.1 | 352.0 |
| 22.5°  | 340.8 | 341.3 | 341.9 | 342.4 | 343.0 | 343.4 | 343.7 | 343.9 | 344.2 | 344.5 | 345.5 |
| 25°    | 328.2 | 329.1 | 330.1 | 331.0 | 331.9 | 332.5 | 332.8 | 333.1 | 333.3 | 333.7 | 334.8 |
| 27.5°  | 315.6 | 316.6 | 317.7 | 318.8 | 319.9 | 320.7 | 321.2 | 321.8 | 322.4 | 323.0 | 324.0 |
| 30°    | 306.7 | 307.8 | 309.1 | 310.2 | 311.5 | 312.4 | 313.2 | 313.9 | 314.6 | 315.4 | 316.5 |
| 32.5°  | 296.7 | 298.0 | 299.3 | 300.7 | 302.0 | 303.2 | 304.2 | 305.1 | 306.1 | 307.0 | 308.3 |
| 35°    | 282.5 | 284.0 | 285.5 | 287.0 | 288.5 | 289.8 | 291.0 | 292.2 | 293.4 | 294.6 | 296.0 |
| 37.5°  | 267.6 | 269.2 | 270.9 | 272.6 | 274.2 | 275.8 | 277.2 | 278.7 | 280.3 | 281.7 | 283.3 |
| 40°    | 257.6 | 259.3 | 260.9 | 262.6 | 264.2 | 266.0 | 267.9 | 269.7 | 271.5 | 273.4 | 275.0 |
| 42.5°  | 246.6 | 248.7 | 250.7 | 252.7 | 254.8 | 256.7 | 258.7 | 260.6 | 262.5 | 264.4 | 266.2 |
| 45°    | 231.0 | 233.3 | 235.4 | 237.6 | 239.9 | 242.1 | 244.4 | 246.7 | 249.1 | 251.4 | 253.2 |
| 47.5°  | 214.6 | 217.1 | 219.6 | 222.2 | 224.7 | 227.3 | 229.9 | 232.6 | 235.1 | 237.8 | 239.8 |
| 50°    | 204.0 | 206.6 | 209.2 | 211.8 | 214.4 | 217.0 | 219.9 | 222.8 | 225.7 | 228.5 | 230.7 |
| 52.5°  | 192.7 | 195.5 | 198.1 | 200.9 | 203.7 | 206.6 | 209.7 | 212.9 | 216.1 | 219.2 | 221.4 |
| 55°    | 176.2 | 179.2 | 182.3 | 185.3 | 188.3 | 191.5 | 194.8 | 198.2 | 201.5 | 204.8 | 207.3 |
| 57.5°  | 160.1 | 163.2 | 166.4 | 169.6 | 172.7 | 176.2 | 179.8 | 183.4 | 187.1 | 190.7 | 193.2 |
| 60°    | 148.7 | 152.0 | 155.4 | 158.7 | 162.0 | 165.6 | 169.4 | 173.2 | 176.9 | 180.7 | 183.3 |
| 62.5°  | 138.1 | 141.5 | 144.9 | 148.3 | 151.7 | 155.4 | 159.4 | 163.5 | 167.5 | 171.5 | 174.0 |
| 65°    | 121.7 | 125.4 | 128.9 | 132.5 | 136.2 | 140.0 | 144.0 | 148.1 | 152.1 | 156.2 | 159.0 |
| 67.5°  | 105.1 | 109.0 | 112.8 | 116.5 | 120.4 | 124.4 | 128.5 | 132.7 | 136.8 | 141.0 | 143.9 |
| 70°    | 93.5  | 97.5  | 101.4 | 105.4 | 109.3 | 113.6 | 118.0 | 122.4 | 126.9 | 131.3 | 134.3 |
| 72.5°  | 82.8  | 86.9  | 90.8  | 94.8  | 98.7  | 103.0 | 107.5 | 112.2 | 116.7 | 121.4 | 124.4 |
| 75°    | 66.1  | 70.4  | 74.7  | 79.1  | 83.5  | 87.9  | 92.6  | 97.1  | 101.7 | 106.4 | 109.4 |
| 77.5°  | 51.5  | 55.8  | 60.2  | 64.6  | 68.9  | 73.5  | 78.1  | 82.8  | 87.4  | 92.1  | 95.3  |
| 80°    | 41.1  | 45.7  | 50.2  | 54.8  | 59.2  | 63.9  | 68.7  | 73.5  | 78.3  | 83.1  | 86.2  |
| 82.5°  | 32.2  | 36.7  | 41.4  | 45.9  | 50.6  | 55.3  | 60.2  | 65.0  | 69.9  | 74.8  | 77.9  |
| 85°    | 20.3  | 25.0  | 29.6  | 34.2  | 38.8  | 43.6  | 48.5  | 53.3  | 58.2  | 63.1  | 66.3  |
| 87.5°  | 11.2  | 16.1  | 21.0  | 25.9  | 30.9  | 35.8  | 40.9  | 46.0  | 51.2  | 56.3  | 59.6  |
| 90°    | 6.1   | 12.2  | 18.3  | 24.3  | 30.4  | 36.8  | 43.5  | 50.2  | 57.0  | 63.7  | 67.4  |
| 92.5°  | 18.0  | 21.7  | 25.3  | 29.0  | 32.6  | 37.5  | 43.7  | 49.8  | 56.0  | 62.2  | 66.2  |
| 95°    | 47.1  | 44.3  | 41.6  | 38.9  | 36.1  | 37.8  | 44.1  | 50.3  | 56.5  | 62.8  | 66.7  |
| 97.5°  | 89.5  | 90.0  | 90.3  | 90.8  | 91.1  | 87.9  | 81.1  | 74.3  | 67.4  | 60.5  | 64.6  |
| 100°   | 121.5 | 127.6 | 133.7 | 139.7 | 145.8 | 138.8 | 119.0 | 99.0  | 79.1  | 59.1  | 63.0  |
| 102.5° | 158.0 | 162.9 | 167.8 | 172.7 | 177.6 | 168.9 | 146.7 | 124.5 | 102.3 | 80.0  | 78.8  |
| 105°   | 211.1 | 215.0 | 218.9 | 222.8 | 226.8 | 223.7 | 213.7 | 203.8 | 193.8 | 183.9 | 159.0 |
| 107.5° | 266.6 | 269.8 | 273.1 | 276.3 | 279.6 | 284.2 | 290.2 | 296.1 | 302.1 | 308.1 | 290.4 |
| 110°   | 303.6 | 306.6 | 309.4 | 312.4 | 315.2 | 319.4 | 324.9 | 330.2 | 335.6 | 341.0 | 338.3 |



TEST NUMBER: P331886-940

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

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 339.4 | 341.8 | 344.3 | 346.8 | 349.3 | 353.1 | 358.4 | 363.6 | 368.9 | 374.2 | 376.6 |
| 115°   | 391.8 | 393.8 | 395.8 | 397.9 | 399.9 | 403.3 | 408.0 | 412.8 | 417.5 | 422.1 | 426.0 |
| 117.5° | 442.8 | 444.7 | 446.5 | 448.4 | 450.2 | 453.0 | 456.8 | 460.7 | 464.5 | 468.3 | 471.8 |
| 120°   | 474.3 | 476.2 | 478.0 | 479.9 | 481.7 | 484.5 | 487.9 | 491.4 | 495.0 | 498.5 | 501.9 |
| 122.5° | 506.7 | 508.1 | 509.4 | 510.9 | 512.2 | 514.6 | 518.2 | 521.7 | 525.1 | 528.6 | 531.5 |
| 125°   | 550.6 | 551.8 | 553.0 | 554.3 | 555.5 | 557.9 | 561.2 | 564.5 | 567.7 | 571.0 | 573.3 |
| 127.5° | 593.5 | 594.7 | 595.8 | 597.0 | 598.2 | 600.2 | 603.2 | 606.1 | 609.0 | 612.0 | 614.3 |
| 130°   | 620.3 | 621.4 | 622.6 | 623.8 | 624.9 | 626.7 | 629.2 | 631.6 | 634.1 | 636.6 | 638.9 |
| 132.5° | 645.6 | 646.8 | 648.1 | 649.3 | 650.5 | 652.1 | 654.1 | 656.0 | 658.0 | 660.0 | 662.3 |
| 135°   | 684.7 | 685.5 | 686.4 | 687.2 | 688.0 | 689.3 | 690.9 | 692.6 | 694.2 | 695.8 | 697.9 |
| 137.5° | 718.1 | 719.2 | 720.3 | 721.4 | 722.6 | 723.5 | 724.4 | 725.3 | 726.3 | 727.2 | 729.4 |
| 140°   | 740.0 | 741.0 | 741.9 | 742.9 | 743.8 | 744.7 | 745.4 | 746.1 | 746.9 | 747.6 | 749.6 |
| 142.5° | 760.7 | 761.6 | 762.4 | 763.3 | 764.1 | 764.8 | 765.4 | 765.9 | 766.4 | 766.9 | 768.7 |
| 145°   | 789.6 | 790.6 | 791.6 | 792.6 | 793.5 | 794.2 | 794.5 | 794.8 | 795.1 | 795.4 | 796.5 |
| 147.5° | 816.4 | 817.1 | 817.8 | 818.5 | 819.2 | 819.7 | 820.0 | 820.3 | 820.6 | 820.9 | 821.4 |
| 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-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 381.4 | 381.4 | 381.4 | 381.4 | 381.4 | 381.4 | 381.4 | 381.4 |
| 2.5°   | 380.6 | 381.2 | 381.8 | 382.0 | 382.0 | 381.9 | 381.8 | 381.7 |
| 5°     | 380.0 | 380.8 | 381.5 | 381.8 | 381.7 | 381.6 | 381.5 | 381.4 |
| 7.5°   | 377.7 | 378.6 | 379.5 | 380.0 | 379.9 | 379.7 | 379.6 | 379.5 |
| 10°    | 375.4 | 376.3 | 377.2 | 377.6 | 377.4 | 377.2 | 377.0 | 376.8 |
| 12.5°  | 372.2 | 373.1 | 373.9 | 374.3 | 374.1 | 373.9 | 373.7 | 373.5 |
| 15°    | 366.2 | 367.1 | 368.1 | 368.5 | 368.4 | 368.3 | 368.2 | 368.1 |
| 17.5°  | 358.4 | 359.3 | 360.1 | 360.4 | 360.3 | 360.2 | 360.1 | 359.9 |
| 20°    | 352.8 | 353.6 | 354.5 | 354.9 | 355.0 | 355.1 | 355.2 | 355.3 |
| 22.5°  | 346.5 | 347.6 | 348.7 | 349.2 | 349.1 | 349.0 | 349.0 | 348.9 |
| 25°    | 336.0 | 337.2 | 338.4 | 339.0 | 339.0 | 339.0 | 339.0 | 339.0 |
| 27.5°  | 325.0 | 326.1 | 327.2 | 327.7 | 327.8 | 327.9 | 327.9 | 328.0 |
| 30°    | 317.5 | 318.7 | 319.8 | 320.3 | 320.3 | 320.3 | 320.3 | 320.3 |
| 32.5°  | 309.4 | 310.6 | 311.7 | 312.5 | 312.7 | 312.9 | 313.2 | 313.3 |
| 35°    | 297.4 | 298.7 | 300.1 | 301.0 | 301.4 | 301.8 | 302.1 | 302.5 |
| 37.5°  | 284.8 | 286.4 | 288.0 | 288.9 | 289.2 | 289.5 | 289.8 | 290.1 |
| 40°    | 276.5 | 278.1 | 279.6 | 280.6 | 281.0 | 281.4 | 281.8 | 282.1 |
| 42.5°  | 267.9 | 269.6 | 271.3 | 272.4 | 273.0 | 273.4 | 273.9 | 274.5 |
| 45°    | 254.9 | 256.6 | 258.4 | 259.7 | 260.4 | 261.1 | 261.9 | 262.6 |
| 47.5°  | 241.7 | 243.8 | 245.8 | 247.0 | 247.5 | 248.2 | 248.7 | 249.3 |
| 50°    | 232.7 | 234.9 | 237.0 | 238.4 | 239.1 | 239.7 | 240.3 | 241.0 |
| 52.5°  | 223.6 | 225.8 | 228.0 | 229.5 | 230.3 | 231.1 | 231.8 | 232.6 |
| 55°    | 209.8 | 212.3 | 214.8 | 216.4 | 217.1 | 217.9 | 218.6 | 219.4 |
| 57.5°  | 195.7 | 198.2 | 200.7 | 202.4 | 203.3 | 204.2 | 205.1 | 205.9 |
| 60°    | 185.9 | 188.5 | 191.1 | 192.9 | 193.9 | 194.9 | 195.9 | 197.0 |
| 62.5°  | 176.6 | 179.1 | 181.7 | 183.5 | 184.5 | 185.4 | 186.4 | 187.3 |
| 65°    | 161.8 | 164.5 | 167.3 | 169.2 | 170.0 | 171.0 | 171.9 | 172.8 |
| 67.5°  | 147.0 | 150.0 | 153.0 | 155.0 | 155.7 | 156.5 | 157.3 | 158.0 |
| 70°    | 137.2 | 140.2 | 143.1 | 145.1 | 146.0 | 146.9 | 147.8 | 148.7 |
| 72.5°  | 127.3 | 130.4 | 133.4 | 135.5 | 136.3 | 137.2 | 138.2 | 139.1 |
| 75°    | 112.4 | 115.5 | 118.6 | 120.6 | 121.7 | 122.9 | 123.9 | 125.1 |
| 77.5°  | 98.5  | 101.7 | 105.0 | 106.9 | 107.8 | 108.7 | 109.5 | 110.4 |
| 80°    | 89.3  | 92.6  | 95.7  | 97.6  | 98.6  | 99.5  | 100.5 | 101.4 |
| 82.5°  | 81.1  | 84.2  | 87.4  | 89.3  | 90.3  | 91.2  | 92.1  | 93.1  |
| 85°    | 69.5  | 72.6  | 75.7  | 77.8  | 78.6  | 79.6  | 80.5  | 81.4  |
| 87.5°  | 62.8  | 66.1  | 69.4  | 71.4  | 72.4  | 73.4  | 74.4  | 75.4  |
| 90°    | 71.2  | 75.0  | 78.7  | 81.2  | 82.5  | 83.6  | 84.9  | 86.1  |
| 92.5°  | 70.3  | 74.3  | 78.4  | 80.9  | 81.9  | 83.0  | 84.0  | 85.1  |
| 95°    | 70.6  | 74.5  | 78.6  | 81.0  | 81.9  | 82.8  | 83.7  | 84.6  |
| 97.5°  | 68.6  | 72.6  | 76.5  | 79.1  | 80.2  | 81.2  | 82.3  | 83.4  |
| 100°   | 67.0  | 70.9  | 74.8  | 77.3  | 78.4  | 79.5  | 80.5  | 81.6  |
| 102.5° | 77.6  | 76.3  | 75.1  | 75.1  | 76.2  | 77.5  | 78.6  | 79.9  |
| 105°   | 134.2 | 109.3 | 84.5  | 72.7  | 73.7  | 74.9  | 76.1  | 77.2  |
| 107.5° | 272.8 | 255.2 | 237.6 | 218.8 | 198.9 | 179.1 | 159.3 | 139.4 |
| 110°   | 335.6 | 332.9 | 330.1 | 318.1 | 296.7 | 275.3 | 253.9 | 232.5 |





TEST NUMBER: P331886-940

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

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 379.0 | 381.4 | 383.8 | 383.1 | 379.2 | 375.3 | 371.5 | 367.7 |
| 115°   | 429.7 | 433.5 | 437.2 | 439.8 | 441.1 | 442.6 | 443.9 | 445.2 |
| 117.5° | 475.2 | 478.7 | 482.1 | 484.2 | 485.1 | 485.9 | 486.8 | 487.6 |
| 120°   | 505.2 | 508.5 | 511.9 | 513.9 | 514.6 | 515.2 | 515.9 | 516.5 |
| 122.5° | 534.4 | 537.3 | 540.3 | 542.1 | 542.9 | 543.7 | 544.4 | 545.2 |
| 125°   | 575.5 | 577.7 | 580.0 | 581.6 | 582.6 | 583.5 | 584.4 | 585.4 |
| 127.5° | 616.6 | 619.0 | 621.3 | 622.6 | 622.9 | 623.3 | 623.6 | 623.9 |
| 130°   | 641.3 | 643.7 | 646.0 | 647.4 | 647.6 | 647.8 | 648.1 | 648.4 |
| 132.5° | 664.6 | 666.9 | 669.2 | 670.5 | 670.7 | 670.8 | 671.0 | 671.2 |
| 135°   | 700.1 | 702.2 | 704.4 | 705.4 | 705.4 | 705.4 | 705.4 | 705.4 |
| 137.5° | 731.6 | 733.8 | 736.0 | 737.2 | 737.4 | 737.4 | 737.6 | 737.8 |
| 140°   | 751.6 | 753.6 | 755.6 | 756.7 | 756.9 | 757.0 | 757.2 | 757.3 |
| 142.5° | 770.3 | 772.1 | 773.8 | 774.7 | 774.7 | 774.8 | 774.8 | 774.8 |
| 145°   | 797.5 | 798.6 | 799.6 | 800.3 | 800.7 | 801.1 | 801.5 | 801.8 |
| 147.5° | 822.0 | 822.5 | 823.0 | 823.1 | 822.8 | 822.4 | 822.0 | 821.6 |
| 150°   | 837.1 | 837.5 | 837.8 | 837.9 | 837.5 | 837.2 | 837.0 | 836.7 |
| 152.5° | 851.0 | 851.6 | 852.2 | 852.1 | 851.4 | 850.8 | 850.1 | 849.4 |
| 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)