

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: P331932-940

Luminaire Tested: **S123DIP-S560D805U940-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331932-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S560D805U940-4F0-1E-UDD-D1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4568.8 lumens  
Efficiency: N/A  
Efficacy: 119.0 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: General Diffuse

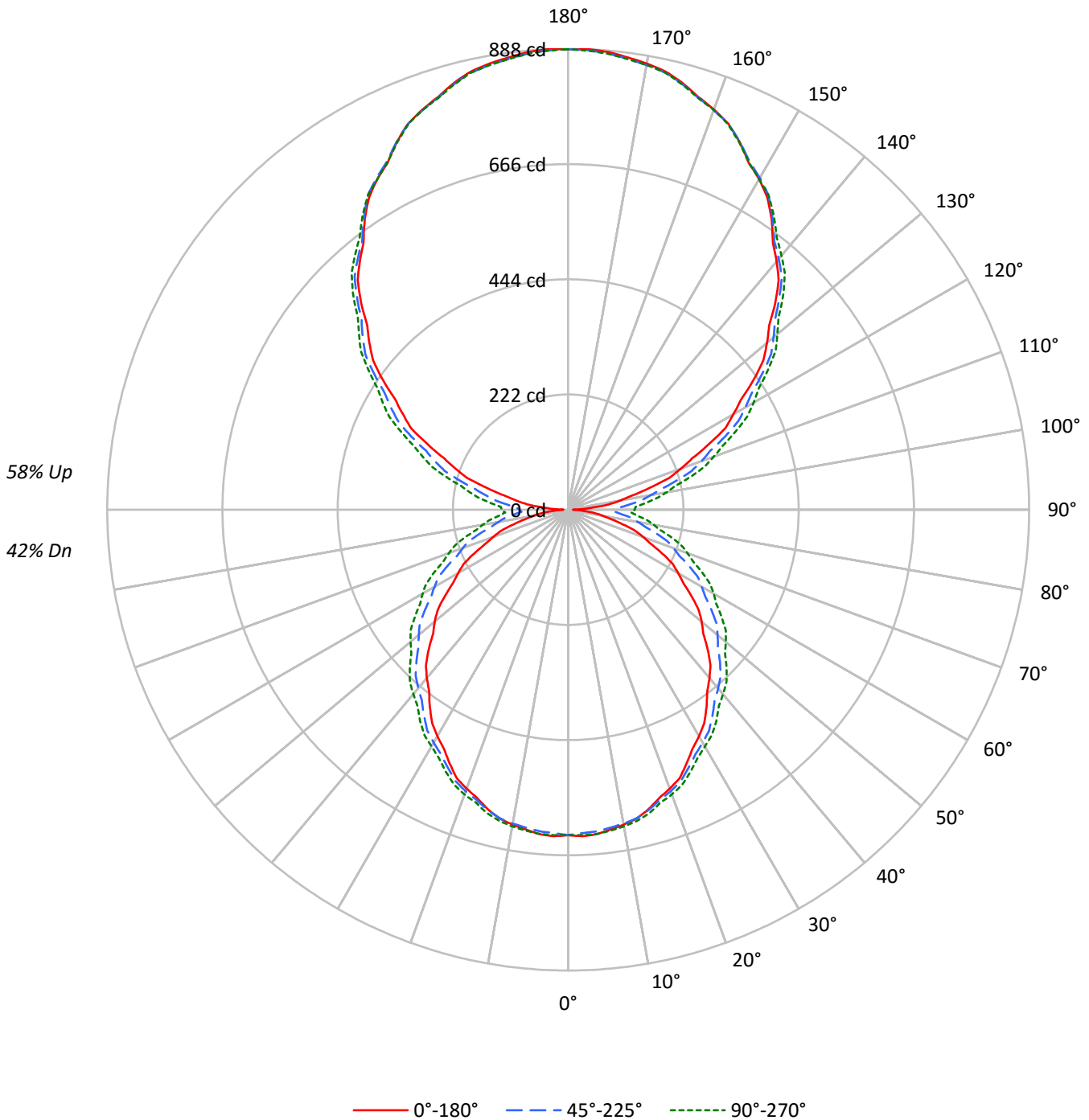
Input Watts (W): 38.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331932-940

CATALOG NUMBER: S123DIP-S560D805U940-4F0-1E-UDD-D1

### Luminous Intensity Polar Plot





TEST NUMBER: P331932-940

CATALOG NUMBER: S123DIP-S560D805U940-4F0-1E-UDD-D1

**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 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 63 | 63 | 63 | 49 | 49 | 49 | 42 |
| 1   | 95  | 90  | 86  | 83  | 87 | 83 | 79 | 76 | 68 | 65 | 63 | 54 | 53 | 51 | 42 | 41 | 40 | 34 |
| 2   | 86  | 78  | 72  | 67  | 78 | 72 | 66 | 61 | 59 | 55 | 51 | 47 | 44 | 42 | 36 | 34 | 33 | 28 |
| 3   | 78  | 69  | 61  | 55  | 71 | 63 | 56 | 51 | 52 | 47 | 43 | 41 | 38 | 35 | 32 | 29 | 27 | 23 |
| 4   | 72  | 61  | 52  | 46  | 65 | 55 | 48 | 43 | 46 | 40 | 36 | 37 | 33 | 30 | 28 | 26 | 23 | 19 |
| 5   | 66  | 54  | 46  | 39  | 60 | 49 | 42 | 37 | 41 | 35 | 31 | 33 | 29 | 26 | 25 | 23 | 20 | 17 |
| 6   | 60  | 48  | 40  | 34  | 55 | 44 | 37 | 32 | 37 | 31 | 27 | 30 | 25 | 22 | 23 | 20 | 18 | 15 |
| 7   | 56  | 43  | 35  | 30  | 51 | 40 | 33 | 28 | 33 | 28 | 24 | 27 | 23 | 20 | 21 | 18 | 16 | 13 |
| 8   | 52  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 30 | 25 | 21 | 25 | 20 | 17 | 19 | 16 | 14 | 11 |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 22 | 28 | 22 | 19 | 22 | 18 | 16 | 18 | 15 | 13 | 10 |
| 10  | 45  | 33  | 25  | 21  | 41 | 30 | 24 | 19 | 25 | 20 | 17 | 21 | 17 | 14 | 16 | 13 | 11 | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6750 | 6750 | 6750 |
| 5°  | 6771 | 6579 | 6584 |
| 10° | 6710 | 6428 | 6396 |
| 15° | 6624 | 6256 | 6191 |
| 20° | 6501 | 6059 | 5966 |
| 25° | 6348 | 5833 | 5729 |
| 30° | 6191 | 5629 | 5489 |
| 35° | 6016 | 5414 | 5298 |
| 40° | 5848 | 5218 | 5093 |
| 45° | 5664 | 5030 | 4929 |
| 50° | 5480 | 4845 | 4748 |
| 55° | 5278 | 4654 | 4586 |
| 60° | 5080 | 4461 | 4419 |
| 65° | 4879 | 4255 | 4221 |
| 70° | 4575 | 4025 | 4016 |
| 75° | 4191 | 3760 | 3810 |
| 80° | 3748 | 3499 | 3575 |
| 85° | 3332 | 3319 | 3435 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.4   | 1.3       |
| 10°-20°   | 169.5  | 3.7       |
| 20°-30°   | 253.4  | 5.5       |
| 30°-40°   | 302.7  | 6.6       |
| 40°-50°   | 316.7  | 6.9       |
| 50°-60°   | 297.2  | 6.5       |
| 60°-70°   | 248.2  | 5.4       |
| 70°-80°   | 177.6  | 3.9       |
| 80°-90°   | 108.5  | 2.4       |
| 90°-100°  | 124.3  | 2.7       |
| 100°-110° | 221.9  | 4.9       |
| 110°-120° | 326.9  | 7.2       |
| 120°-130° | 405.8  | 8.9       |
| 130°-140° | 443.5  | 9.7       |
| 140°-150° | 429.5  | 9.4       |
| 150°-160° | 360.1  | 7.9       |
| 160°-170° | 239.7  | 5.2       |
| 170°-180° | 83.9   | 1.8       |
| 0°-30°    | 482.3  | 10.6      |
| 0°-40°    | 785.0  | 17.2      |
| 0°-60°    | 1398.8 | 30.6      |
| 0°-90°    | 1933.1 | 42.3      |
| 90°-120°  | 673.1  | 14.7      |
| 90°-150°  | 1951.9 | 42.7      |
| 90°-180°  | 2636.0 | 57.7      |
| 0°-180°   | 4568.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 627 | 627   | 627 | 627   | 627 |      |
| 5°   | 628 | 626   | 622 | 627   | 627 | 59   |
| 15°  | 598 | 600   | 599 | 605   | 605 | 168  |
| 25°  | 540 | 546   | 548 | 557   | 557 | 249  |
| 35°  | 464 | 475   | 484 | 494   | 497 | 290  |
| 45°  | 380 | 396   | 413 | 426   | 432 | 293  |
| 55°  | 290 | 312   | 337 | 354   | 361 | 259  |
| 65°  | 200 | 227   | 257 | 277   | 284 | 198  |
| 75°  | 109 | 141   | 175 | 197   | 206 | 116  |
| 85°  | 33  | 68    | 104 | 126   | 134 | 35   |
| 90°  | 10  | 50    | 94  | 119   | 128 | 9    |
| 95°  | 49  | 81    | 119 | 142   | 150 | 52   |
| 105° | 162 | 181   | 216 | 234   | 242 | 174  |
| 115° | 300 | 311   | 333 | 350   | 355 | 297  |
| 125° | 436 | 439   | 456 | 467   | 470 | 389  |
| 135° | 564 | 568   | 574 | 583   | 586 | 434  |
| 145° | 683 | 684   | 686 | 691   | 691 | 426  |
| 155° | 782 | 782   | 782 | 785   | 780 | 360  |
| 165° | 851 | 849   | 849 | 853   | 848 | 240  |
| 175° | 885 | 883   | 883 | 886   | 882 | 84   |
| 180° | 888 | 888   | 888 | 888   | 888 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 |
| 2.5°   | 629.8 | 629.5 | 629.1 | 628.7 | 628.3 | 627.7 | 626.7 | 625.7 | 624.7 | 623.8 | 624.7 |
| 5°     | 627.8 | 627.4 | 627.1 | 626.9 | 626.5 | 625.9 | 625.0 | 624.1 | 623.2 | 622.2 | 623.5 |
| 7.5°   | 621.6 | 621.6 | 621.7 | 621.8 | 621.9 | 621.4 | 620.5 | 619.6 | 618.8 | 617.9 | 619.4 |
| 10°    | 616.2 | 616.4 | 616.7 | 617.1 | 617.3 | 617.2 | 616.4 | 615.6 | 614.8 | 614.1 | 615.6 |
| 12.5°  | 609.6 | 610.0 | 610.5 | 610.8 | 611.3 | 611.3 | 610.7 | 610.2 | 609.7 | 609.1 | 610.6 |
| 15°    | 597.7 | 598.2 | 598.6 | 599.1 | 599.5 | 599.7 | 599.5 | 599.3 | 599.2 | 599.1 | 600.6 |
| 17.5°  | 582.6 | 583.5 | 584.5 | 585.4 | 586.3 | 586.7 | 586.7 | 586.6 | 586.6 | 586.5 | 587.8 |
| 20°    | 571.8 | 572.7 | 573.5 | 574.4 | 575.3 | 576.0 | 576.3 | 576.6 | 576.8 | 577.2 | 578.5 |
| 22.5°  | 560.3 | 561.2 | 562.0 | 563.0 | 563.9 | 564.5 | 565.0 | 565.4 | 565.9 | 566.2 | 568.0 |
| 25°    | 539.7 | 541.2 | 542.7 | 544.2 | 545.7 | 546.7 | 547.2 | 547.6 | 548.0 | 548.5 | 550.5 |
| 27.5°  | 518.9 | 520.6 | 522.4 | 524.1 | 525.8 | 527.1 | 528.1 | 529.1 | 530.0 | 531.0 | 532.7 |
| 30°    | 504.1 | 506.0 | 508.0 | 510.1 | 512.0 | 513.6 | 514.8 | 516.0 | 517.2 | 518.4 | 520.3 |
| 32.5°  | 487.7 | 489.9 | 492.1 | 494.4 | 496.6 | 498.5 | 500.1 | 501.6 | 503.2 | 504.8 | 506.8 |
| 35°    | 464.5 | 466.9 | 469.3 | 471.8 | 474.2 | 476.4 | 478.4 | 480.4 | 482.3 | 484.3 | 486.6 |
| 37.5°  | 439.9 | 442.6 | 445.3 | 448.1 | 450.8 | 453.4 | 455.8 | 458.3 | 460.7 | 463.2 | 465.7 |
| 40°    | 423.5 | 426.2 | 429.0 | 431.7 | 434.4 | 437.3 | 440.3 | 443.4 | 446.4 | 449.4 | 452.0 |
| 42.5°  | 405.5 | 408.8 | 412.1 | 415.4 | 418.8 | 422.0 | 425.3 | 428.4 | 431.6 | 434.7 | 437.6 |
| 45°    | 379.8 | 383.4 | 387.1 | 390.7 | 394.3 | 398.1 | 401.9 | 405.6 | 409.5 | 413.2 | 416.2 |
| 47.5°  | 352.8 | 357.0 | 361.1 | 365.2 | 369.3 | 373.6 | 378.0 | 382.3 | 386.6 | 391.0 | 394.2 |
| 50°    | 335.4 | 339.7 | 343.8 | 348.1 | 352.4 | 356.9 | 361.6 | 366.3 | 371.0 | 375.7 | 379.2 |
| 52.5°  | 316.8 | 321.3 | 325.8 | 330.3 | 334.7 | 339.7 | 344.8 | 350.0 | 355.2 | 360.4 | 364.0 |
| 55°    | 289.6 | 294.6 | 299.6 | 304.6 | 309.7 | 314.9 | 320.4 | 325.8 | 331.3 | 336.7 | 340.8 |
| 57.5°  | 263.1 | 268.3 | 273.6 | 278.7 | 284.0 | 289.6 | 295.6 | 301.6 | 307.6 | 313.5 | 317.6 |
| 60°    | 244.5 | 250.0 | 255.5 | 260.9 | 266.4 | 272.2 | 278.5 | 284.7 | 290.9 | 297.1 | 301.4 |
| 62.5°  | 227.0 | 232.6 | 238.3 | 243.8 | 249.4 | 255.5 | 262.1 | 268.7 | 275.3 | 281.9 | 286.1 |
| 65°    | 200.1 | 206.1 | 212.0 | 217.9 | 223.8 | 230.2 | 236.8 | 243.4 | 250.1 | 256.8 | 261.4 |
| 67.5°  | 172.8 | 179.1 | 185.4 | 191.6 | 198.0 | 204.5 | 211.3 | 218.1 | 224.9 | 231.7 | 236.7 |
| 70°    | 153.7 | 160.2 | 166.7 | 173.3 | 179.8 | 186.7 | 193.9 | 201.3 | 208.6 | 215.9 | 220.7 |
| 72.5°  | 136.2 | 142.8 | 149.3 | 155.8 | 162.3 | 169.3 | 176.8 | 184.4 | 191.9 | 199.5 | 204.5 |
| 75°    | 108.6 | 115.7 | 122.9 | 130.0 | 137.1 | 144.5 | 152.1 | 159.7 | 167.3 | 174.9 | 179.9 |
| 77.5°  | 84.5  | 91.8  | 99.0  | 106.1 | 113.3 | 120.7 | 128.4 | 136.1 | 143.7 | 151.4 | 156.7 |
| 80°    | 67.6  | 75.1  | 82.5  | 90.0  | 97.4  | 105.0 | 112.9 | 120.8 | 128.8 | 136.6 | 141.8 |
| 82.5°  | 52.9  | 60.5  | 67.9  | 75.5  | 83.1  | 90.9  | 98.9  | 106.9 | 114.9 | 123.0 | 128.1 |
| 85°    | 33.4  | 41.0  | 48.7  | 56.3  | 63.8  | 71.6  | 79.7  | 87.7  | 95.8  | 103.8 | 109.0 |
| 87.5°  | 18.3  | 26.2  | 34.1  | 41.9  | 49.8  | 57.8  | 65.9  | 74.1  | 82.2  | 90.3  | 95.7  |
| 90°    | 9.5   | 18.5  | 27.6  | 36.6  | 45.6  | 54.9  | 64.6  | 74.4  | 84.2  | 93.9  | 99.7  |
| 92.5°  | 25.2  | 33.0  | 40.8  | 48.5  | 56.3  | 64.6  | 73.3  | 82.0  | 90.8  | 99.6  | 105.1 |
| 95°    | 48.7  | 55.6  | 62.7  | 69.6  | 76.7  | 84.5  | 93.2  | 101.8 | 110.6 | 119.2 | 124.6 |
| 97.5°  | 79.7  | 85.9  | 92.0  | 98.2  | 104.3 | 111.5 | 119.4 | 127.4 | 135.5 | 143.5 | 148.6 |
| 100°   | 100.9 | 106.7 | 112.5 | 118.3 | 124.1 | 130.9 | 138.7 | 146.4 | 154.2 | 161.9 | 166.7 |
| 102.5° | 125.6 | 130.5 | 135.4 | 140.3 | 145.3 | 151.7 | 159.5 | 167.4 | 175.3 | 183.2 | 187.9 |
| 105°   | 162.3 | 166.3 | 170.2 | 174.2 | 178.2 | 184.0 | 192.0 | 199.9 | 207.9 | 215.8 | 220.0 |
| 107.5° | 204.5 | 207.8 | 211.0 | 214.3 | 217.6 | 222.6 | 229.3 | 236.1 | 242.8 | 249.6 | 254.1 |
| 110°   | 230.7 | 233.7 | 236.7 | 239.8 | 242.8 | 247.5 | 254.0 | 260.3 | 266.7 | 273.1 | 277.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 258.6 | 261.0 | 263.4 | 265.9 | 268.3 | 272.4 | 278.4 | 284.3 | 290.2 | 296.0 | 300.6 |
| 115°   | 299.7 | 302.0 | 304.3 | 306.6 | 308.9 | 312.5 | 317.7 | 322.9 | 328.1 | 333.2 | 337.0 |
| 117.5° | 341.7 | 343.1 | 344.6 | 346.0 | 347.4 | 350.5 | 355.3 | 360.0 | 364.7 | 369.4 | 373.0 |
| 120°   | 367.4 | 369.1 | 370.8 | 372.4 | 374.1 | 377.1 | 381.3 | 385.6 | 389.8 | 394.0 | 397.3 |
| 122.5° | 394.7 | 395.7 | 396.8 | 397.9 | 399.0 | 401.7 | 406.1 | 410.5 | 414.8 | 419.2 | 422.1 |
| 125°   | 435.7 | 436.1 | 436.6 | 437.1 | 437.6 | 439.8 | 443.9 | 448.0 | 452.1 | 456.2 | 458.8 |
| 127.5° | 474.2 | 475.0 | 475.8 | 476.7 | 477.5 | 479.7 | 483.0 | 486.2 | 489.5 | 492.8 | 495.0 |
| 130°   | 499.8 | 501.0 | 502.0 | 503.1 | 504.2 | 506.0 | 508.5 | 511.1 | 513.7 | 516.3 | 518.5 |
| 132.5° | 525.0 | 526.1 | 527.4 | 528.6 | 529.8 | 531.5 | 533.5 | 535.6 | 537.7 | 539.8 | 541.8 |
| 135°   | 564.0 | 564.8 | 565.5 | 566.3 | 567.1 | 568.3 | 569.8 | 571.3 | 572.7 | 574.3 | 576.4 |
| 137.5° | 600.1 | 600.7 | 601.4 | 602.1 | 602.7 | 603.7 | 605.0 | 606.4 | 607.8 | 609.1 | 610.8 |
| 140°   | 624.6 | 625.4 | 626.2 | 627.0 | 627.8 | 628.5 | 629.1 | 629.6 | 630.3 | 630.9 | 633.0 |
| 142.5° | 647.6 | 648.2 | 648.8 | 649.5 | 650.1 | 650.7 | 651.0 | 651.4 | 651.8 | 652.1 | 654.0 |
| 145°   | 683.2 | 683.4 | 683.5 | 683.7 | 683.9 | 684.1 | 684.7 | 685.1 | 685.5 | 686.0 | 687.1 |
| 147.5° | 713.8 | 714.3 | 714.9 | 715.4 | 716.0 | 716.5 | 716.9 | 717.4 | 717.8 | 718.3 | 718.6 |
| 150°   | 735.5 | 735.8 | 736.1 | 736.5 | 736.7 | 737.1 | 737.4 | 737.7 | 738.0 | 738.3 | 738.3 |
| 152.5° | 753.4 | 753.8 | 754.2 | 754.7 | 755.1 | 755.5 | 755.6 | 755.8 | 756.0 | 756.2 | 756.4 |
| 155°   | 781.5 | 781.5 | 781.5 | 781.5 | 781.5 | 781.6 | 781.8 | 781.9 | 782.1 | 782.2 | 782.8 |
| 157.5° | 805.5 | 805.3 | 805.1 | 804.9 | 804.8 | 804.8 | 804.9 | 805.0 | 805.1 | 805.2 | 805.9 |
| 160°   | 820.6 | 820.3 | 819.9 | 819.7 | 819.3 | 819.2 | 819.2 | 819.2 | 819.2 | 819.2 | 819.9 |
| 162.5° | 833.9 | 833.6 | 833.1 | 832.7 | 832.2 | 832.1 | 832.2 | 832.3 | 832.4 | 832.6 | 833.3 |
| 165°   | 851.2 | 850.8 | 850.3 | 849.9 | 849.4 | 849.2 | 849.2 | 849.2 | 849.2 | 849.2 | 850.1 |
| 167.5° | 865.0 | 864.4 | 863.8 | 863.2 | 862.6 | 862.4 | 862.5 | 862.6 | 862.7 | 862.8 | 863.8 |
| 170°   | 872.9 | 872.3 | 871.6 | 871.0 | 870.4 | 870.0 | 870.0 | 870.0 | 870.0 | 870.0 | 871.2 |
| 172.5° | 879.0 | 878.4 | 877.8 | 877.2 | 876.6 | 876.2 | 876.2 | 876.2 | 876.2 | 876.2 | 877.2 |
| 175°   | 885.4 | 884.8 | 884.2 | 883.6 | 883.0 | 882.6 | 882.6 | 882.6 | 882.6 | 882.6 | 883.6 |
| 177.5° | 888.1 | 887.6 | 887.1 | 886.5 | 886.1 | 885.8 | 885.8 | 885.8 | 885.8 | 885.8 | 886.5 |
| 180°   | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 |
| 2.5°   | 625.7 | 626.7 | 627.7 | 628.1 | 627.9 | 627.9 | 627.8 | 627.6 |
| 5°     | 624.7 | 625.9 | 627.1 | 627.7 | 627.5 | 627.3 | 627.2 | 627.1 |
| 7.5°   | 620.9 | 622.4 | 624.0 | 624.6 | 624.5 | 624.3 | 624.1 | 623.9 |
| 10°    | 617.2 | 618.7 | 620.2 | 620.7 | 620.5 | 620.2 | 619.8 | 619.6 |
| 12.5°  | 612.0 | 613.3 | 614.7 | 615.3 | 615.0 | 614.7 | 614.4 | 614.1 |
| 15°    | 602.1 | 603.6 | 605.1 | 605.8 | 605.6 | 605.5 | 605.4 | 605.2 |
| 17.5°  | 589.2 | 590.6 | 591.9 | 592.5 | 592.3 | 592.1 | 591.9 | 591.7 |
| 20°    | 580.0 | 581.3 | 582.6 | 583.4 | 583.5 | 583.7 | 583.9 | 584.0 |
| 22.5°  | 569.7 | 571.5 | 573.2 | 574.0 | 573.9 | 573.8 | 573.7 | 573.6 |
| 25°    | 552.4 | 554.5 | 556.4 | 557.4 | 557.4 | 557.4 | 557.4 | 557.4 |
| 27.5°  | 534.4 | 536.1 | 537.8 | 538.8 | 538.9 | 539.0 | 539.1 | 539.2 |
| 30°    | 522.1 | 523.9 | 525.8 | 526.6 | 526.6 | 526.6 | 526.6 | 526.6 |
| 32.5°  | 508.6 | 510.6 | 512.6 | 513.7 | 514.1 | 514.4 | 514.8 | 515.1 |
| 35°    | 488.8 | 491.2 | 493.4 | 494.8 | 495.4 | 496.1 | 496.7 | 497.3 |
| 37.5°  | 468.2 | 470.8 | 473.4 | 475.0 | 475.5 | 475.9 | 476.4 | 476.9 |
| 40°    | 454.6 | 457.2 | 459.8 | 461.4 | 462.0 | 462.6 | 463.2 | 463.8 |
| 42.5°  | 440.3 | 443.2 | 446.0 | 447.8 | 448.7 | 449.5 | 450.4 | 451.2 |
| 45°    | 419.0 | 421.9 | 424.8 | 426.9 | 428.0 | 429.3 | 430.5 | 431.7 |
| 47.5°  | 397.5 | 400.7 | 403.9 | 406.1 | 407.0 | 408.0 | 408.9 | 409.8 |
| 50°    | 382.6 | 386.2 | 389.7 | 391.9 | 393.0 | 394.0 | 395.1 | 396.2 |
| 52.5°  | 367.7 | 371.2 | 374.9 | 377.3 | 378.6 | 379.9 | 381.2 | 382.5 |
| 55°    | 344.9 | 349.0 | 353.1 | 355.8 | 357.0 | 358.2 | 359.4 | 360.7 |
| 57.5°  | 321.8 | 325.9 | 330.0 | 332.8 | 334.2 | 335.6 | 337.1 | 338.5 |
| 60°    | 305.7 | 309.9 | 314.1 | 317.1 | 318.8 | 320.4 | 322.1 | 323.8 |
| 62.5°  | 290.3 | 294.6 | 298.8 | 301.8 | 303.3 | 304.8 | 306.4 | 307.9 |
| 65°    | 265.9 | 270.5 | 275.1 | 278.1 | 279.6 | 281.2 | 282.7 | 284.2 |
| 67.5°  | 241.7 | 246.6 | 251.6 | 254.8 | 256.0 | 257.3 | 258.6 | 259.8 |
| 70°    | 225.6 | 230.4 | 235.3 | 238.4 | 240.0 | 241.5 | 243.0 | 244.5 |
| 72.5°  | 209.4 | 214.4 | 219.4 | 222.7 | 224.2 | 225.7 | 227.2 | 228.7 |
| 75°    | 184.9 | 189.9 | 194.9 | 198.3 | 200.1 | 202.0 | 203.8 | 205.6 |
| 77.5°  | 161.9 | 167.2 | 172.5 | 175.8 | 177.3 | 178.6 | 180.0 | 181.5 |
| 80°    | 147.0 | 152.1 | 157.3 | 160.6 | 162.1 | 163.6 | 165.1 | 166.7 |
| 82.5°  | 133.3 | 138.4 | 143.6 | 147.0 | 148.5 | 150.0 | 151.5 | 153.0 |
| 85°    | 114.1 | 119.3 | 124.5 | 127.8 | 129.3 | 130.8 | 132.3 | 133.8 |
| 87.5°  | 100.9 | 106.2 | 111.6 | 114.9 | 116.5 | 118.1 | 119.7 | 121.3 |
| 90°    | 105.5 | 111.3 | 117.1 | 120.8 | 122.7 | 124.5 | 126.4 | 128.1 |
| 92.5°  | 110.7 | 116.2 | 121.7 | 125.1 | 126.4 | 127.5 | 128.8 | 129.9 |
| 95°    | 129.8 | 135.2 | 140.5 | 143.9 | 145.4 | 147.0 | 148.5 | 150.0 |
| 97.5°  | 153.9 | 159.2 | 164.3 | 167.7 | 169.2 | 170.7 | 172.1 | 173.5 |
| 100°   | 171.7 | 176.5 | 181.4 | 184.8 | 186.5 | 188.4 | 190.2 | 192.1 |
| 102.5° | 192.7 | 197.4 | 202.2 | 205.3 | 206.7 | 208.1 | 209.6 | 211.1 |
| 105°   | 224.3 | 228.5 | 232.7 | 235.8 | 237.4 | 239.1 | 240.8 | 242.5 |
| 107.5° | 258.8 | 263.3 | 267.9 | 270.7 | 271.9 | 273.0 | 274.2 | 275.4 |
| 110°   | 282.2 | 286.8 | 291.3 | 294.1 | 295.0 | 295.9 | 296.8 | 297.7 |





TEST NUMBER: P331932-940

CATALOG NUMBER: S123DIP-S560D805U940-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 305.1 | 309.7 | 314.3 | 317.2 | 318.5 | 319.8 | 321.0 | 322.4 |
| 115°   | 340.8 | 344.6 | 348.4 | 350.8 | 351.9 | 352.9 | 354.0 | 355.1 |
| 117.5° | 376.6 | 380.1 | 383.7 | 385.9 | 386.6 | 387.4 | 388.2 | 388.9 |
| 120°   | 400.6 | 404.0 | 407.3 | 409.4 | 410.2 | 410.9 | 411.6 | 412.4 |
| 122.5° | 425.1 | 428.0 | 431.1 | 432.8 | 433.5 | 434.1 | 434.7 | 435.3 |
| 125°   | 461.4 | 463.9 | 466.5 | 468.0 | 468.4 | 468.9 | 469.3 | 469.8 |
| 127.5° | 497.1 | 499.3 | 501.4 | 502.6 | 502.9 | 503.2 | 503.5 | 503.9 |
| 130°   | 520.8 | 523.1 | 525.4 | 526.4 | 526.2 | 526.0 | 525.8 | 525.7 |
| 132.5° | 543.9 | 545.8 | 547.9 | 548.9 | 549.1 | 549.4 | 549.6 | 549.7 |
| 135°   | 578.5 | 580.7 | 582.7 | 584.1 | 584.5 | 585.0 | 585.4 | 585.9 |
| 137.5° | 612.6 | 614.3 | 616.1 | 617.1 | 617.2 | 617.4 | 617.5 | 617.7 |
| 140°   | 635.2 | 637.2 | 639.4 | 640.2 | 640.0 | 639.6 | 639.3 | 639.0 |
| 142.5° | 655.9 | 657.7 | 659.7 | 660.6 | 660.5 | 660.4 | 660.3 | 660.2 |
| 145°   | 688.1 | 689.2 | 690.3 | 690.8 | 690.8 | 690.7 | 690.7 | 690.7 |
| 147.5° | 719.0 | 719.3 | 719.7 | 719.7 | 719.3 | 718.9 | 718.5 | 718.2 |
| 150°   | 738.3 | 738.3 | 738.3 | 738.0 | 737.4 | 736.7 | 736.1 | 735.5 |
| 152.5° | 756.6 | 756.9 | 757.2 | 756.9 | 756.2 | 755.4 | 754.7 | 753.9 |
| 155°   | 783.5 | 784.1 | 784.7 | 784.4 | 783.4 | 782.3 | 781.2 | 780.2 |
| 157.5° | 806.6 | 807.2 | 807.8 | 807.7 | 806.9 | 806.0 | 805.1 | 804.2 |
| 160°   | 820.7 | 821.5 | 822.2 | 822.3 | 821.7 | 821.1 | 820.5 | 819.8 |
| 162.5° | 834.1 | 834.9 | 835.7 | 835.5 | 834.6 | 833.6 | 832.6 | 831.6 |
| 165°   | 851.0 | 851.9 | 852.9 | 852.8 | 851.8 | 850.6 | 849.5 | 848.5 |
| 167.5° | 864.8 | 865.7 | 866.7 | 866.7 | 865.7 | 864.8 | 863.8 | 862.8 |
| 170°   | 872.3 | 873.3 | 874.4 | 874.4 | 873.3 | 872.3 | 871.2 | 870.0 |
| 172.5° | 878.2 | 879.1 | 880.0 | 880.0 | 878.9 | 877.8 | 876.7 | 875.7 |
| 175°   | 884.5 | 885.4 | 886.4 | 886.3 | 885.2 | 884.1 | 883.0 | 881.9 |
| 177.5° | 887.3 | 888.1 | 888.8 | 888.8 | 887.9 | 887.0 | 886.2 | 885.3 |
| 180°   | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 |

(END OF REPORT)