

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: P332514

Luminaire Tested: **SA4XXDIP-C350D810U835-4F0-1E-UDD-F**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332514  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C350D810U835-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

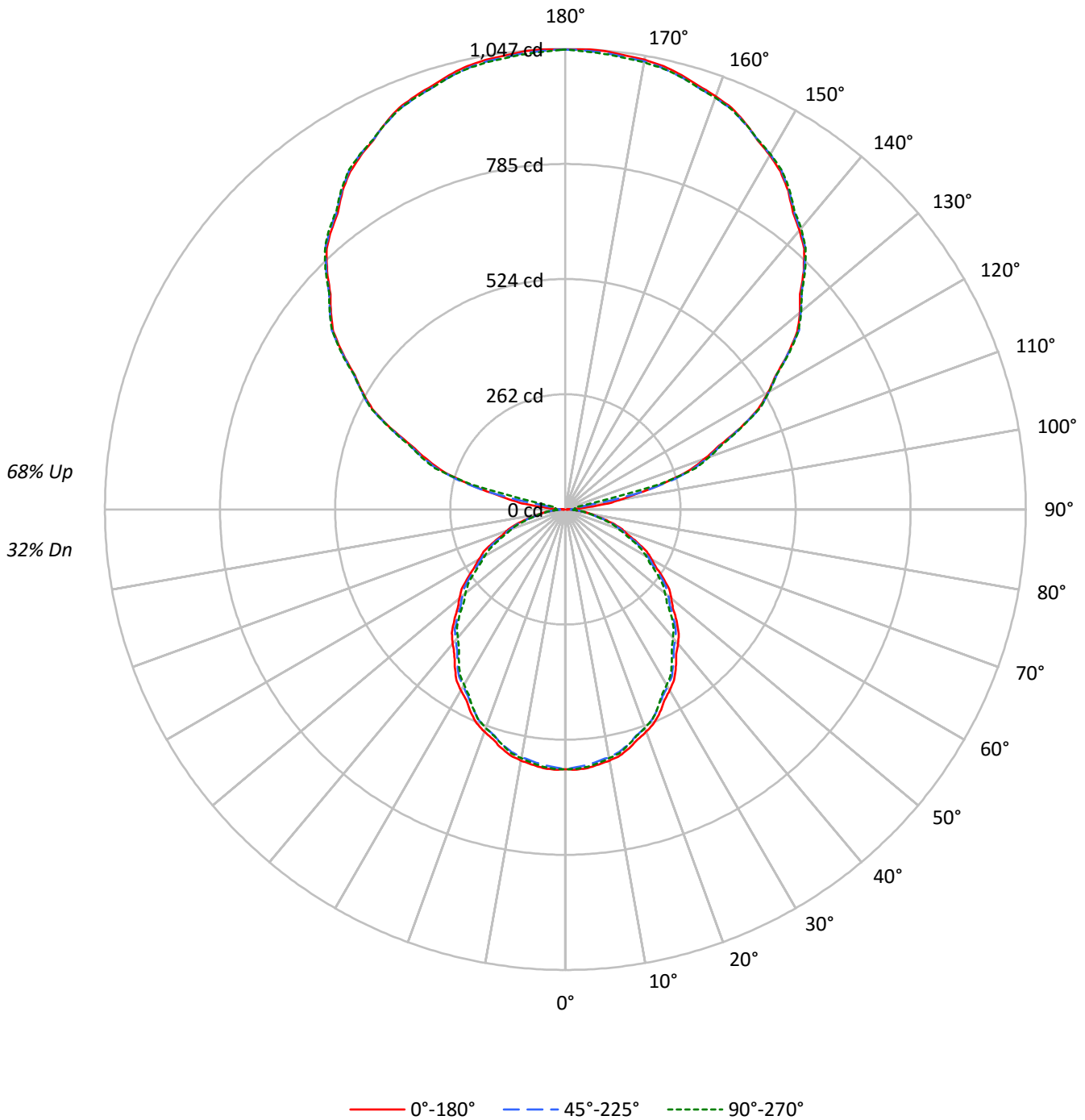
Lumens per Lamp: N/A  
Luminaire Lumens: 4752.6 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 31.2  
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: P332514  
CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P332514

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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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 73 | 73 | 73 | 56 | 56 | 56 | 40 | 40 | 40 | 32 |    |    |    |   |
| 1   | 94  | 89  | 86  | 82  | 84 | 81 | 77 | 75 | 64 | 62 | 60 | 49 | 47 | 46 | 35 | 34 | 33 | 27 |    |    |    |   |
| 2   | 85  | 78  | 72  | 67  | 76 | 70 | 65 | 61 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 29 | 28 | 22 |    |    |    |   |
| 3   | 78  | 69  | 61  | 56  | 70 | 62 | 56 | 51 | 49 | 45 | 42 | 38 | 35 | 33 | 27 | 25 | 24 | 19 |    |    |    |   |
| 4   | 71  | 61  | 53  | 47  | 64 | 55 | 48 | 43 | 44 | 39 | 35 | 34 | 30 | 28 | 24 | 22 | 20 | 16 |    |    |    |   |
| 5   | 65  | 54  | 46  | 40  | 58 | 49 | 42 | 37 | 39 | 34 | 30 | 30 | 27 | 24 | 22 | 20 | 18 | 14 |    |    |    |   |
| 6   | 60  | 48  | 40  | 35  | 54 | 44 | 37 | 32 | 35 | 30 | 26 | 27 | 24 | 21 | 20 | 17 | 16 | 12 |    |    |    |   |
| 7   | 55  | 43  | 36  | 30  | 50 | 39 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 18 | 18 | 16 | 14 | 11 |    |    |    |   |
| 8   | 51  | 39  | 32  | 27  | 46 | 36 | 29 | 25 | 29 | 24 | 20 | 23 | 19 | 16 | 17 | 14 | 12 | 10 |    |    |    |   |
| 9   | 48  | 36  | 28  | 24  | 43 | 33 | 26 | 22 | 26 | 22 | 18 | 21 | 17 | 15 | 15 | 13 | 11 | 9  |    |    |    |   |
| 10  | 44  | 33  | 26  | 21  | 40 | 30 | 24 | 19 | 24 | 20 | 16 | 19 | 16 | 13 | 14 | 12 | 10 | 8  |    |    |    |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4769 | 4769 | 4769 |
| 5°  | 4783 | 4725 | 4760 |
| 10° | 4753 | 4687 | 4710 |
| 15° | 4695 | 4621 | 4633 |
| 20° | 4619 | 4538 | 4542 |
| 25° | 4532 | 4444 | 4431 |
| 30° | 4426 | 4333 | 4294 |
| 35° | 4315 | 4217 | 4161 |
| 40° | 4200 | 4086 | 4011 |
| 45° | 4080 | 3956 | 3881 |
| 50° | 3947 | 3841 | 3721 |
| 55° | 3804 | 3690 | 3571 |
| 60° | 3660 | 3523 | 3416 |
| 65° | 3500 | 3364 | 3228 |
| 70° | 3319 | 3151 | 3028 |
| 75° | 3041 | 2895 | 2820 |
| 80° | 2706 | 2599 | 2529 |
| 85° | 2371 | 2279 | 2232 |



TEST NUMBER: P332514

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.6   | 1.2       |
| 10°-20°   | 156.7  | 3.3       |
| 20°-30°   | 230.7  | 4.9       |
| 30°-40°   | 268.2  | 5.6       |
| 40°-50°   | 268.2  | 5.6       |
| 50°-60°   | 234.6  | 4.9       |
| 60°-70°   | 174.2  | 3.7       |
| 70°-80°   | 99.0   | 2.1       |
| 80°-90°   | 31.6   | 0.7       |
| 90°-100°  | 35.8   | 0.8       |
| 100°-110° | 228.0  | 4.8       |
| 110°-120° | 436.1  | 9.2       |
| 120°-130° | 553.6  | 11.6      |
| 130°-140° | 592.3  | 12.5      |
| 140°-150° | 553.9  | 11.7      |
| 150°-160° | 446.7  | 9.4       |
| 160°-170° | 288.1  | 6.1       |
| 170°-180° | 99.3   | 2.1       |
| 0°-30°    | 443.1  | 9.3       |
| 0°-40°    | 711.3  | 15.0      |
| 0°-60°    | 1214.1 | 25.5      |
| 0°-90°    | 1518.9 | 32.0      |
| 90°-120°  | 699.8  | 14.7      |
| 90°-150°  | 2399.6 | 50.5      |
| 90°-180°  | 3234.0 | 68.0      |
| 0°-180°   | 4752.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 591  | 591   | 591  | 591   | 591  |      |
| 5°   | 590  | 588   | 583  | 588   | 587  | 56   |
| 15°  | 562  | 560   | 553  | 555   | 554  | 158  |
| 25°  | 509  | 505   | 499  | 499   | 498  | 234  |
| 35°  | 438  | 434   | 428  | 425   | 422  | 274  |
| 45°  | 357  | 354   | 346  | 342   | 340  | 275  |
| 55°  | 270  | 269   | 262  | 257   | 254  | 242  |
| 65°  | 183  | 181   | 176  | 172   | 169  | 181  |
| 75°  | 98   | 95    | 93   | 91    | 90   | 104  |
| 85°  | 26   | 26    | 25   | 25    | 24   | 28   |
| 90°  | 2    | 11    | 17   | 22    | 24   | 3    |
| 95°  | 43   | 18    | 17   | 22    | 23   | 55   |
| 105° | 235  | 240   | 244  | 249   | 223  | 246  |
| 115° | 439  | 442   | 441  | 442   | 443  | 432  |
| 125° | 618  | 621   | 619  | 622   | 622  | 551  |
| 135° | 766  | 766   | 769  | 770   | 772  | 590  |
| 145° | 884  | 886   | 886  | 887   | 888  | 552  |
| 155° | 969  | 969   | 967  | 970   | 968  | 446  |
| 165° | 1022 | 1018  | 1018 | 1024  | 1017 | 289  |
| 175° | 1045 | 1041  | 1042 | 1048  | 1039 | 100  |
| 180° | 1045 | 1045  | 1045 | 1045  | 1045 |      |



TEST NUMBER: P332514

CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5°   | 592.2 | 592.0 | 591.7 | 591.5 | 591.2 | 590.6 | 589.7 | 588.8 | 587.9 | 586.9 | 587.8 |
| 5°     | 590.2 | 589.8 | 589.4 | 589.0 | 588.6 | 587.8 | 586.6 | 585.5 | 584.3 | 583.1 | 584.3 |
| 7.5°   | 584.8 | 584.3 | 583.9 | 583.5 | 583.1 | 582.2 | 580.9 | 579.7 | 578.4 | 577.1 | 578.0 |
| 10°    | 579.8 | 579.4 | 579.0 | 578.6 | 578.2 | 577.3 | 575.9 | 574.5 | 573.2 | 571.8 | 572.6 |
| 12.5°  | 573.4 | 573.0 | 572.6 | 572.1 | 571.7 | 570.8 | 569.3 | 567.9 | 566.4 | 565.0 | 565.9 |
| 15°    | 561.8 | 561.4 | 561.0 | 560.6 | 560.2 | 559.2 | 557.6 | 556.0 | 554.4 | 552.9 | 553.5 |
| 17.5°  | 547.9 | 547.4 | 546.9 | 546.4 | 545.8 | 544.8 | 543.3 | 541.8 | 540.3 | 538.8 | 539.2 |
| 20°    | 537.7 | 537.2 | 536.7 | 536.1 | 535.6 | 534.6 | 533.0 | 531.4 | 529.8 | 528.2 | 528.6 |
| 22.5°  | 526.7 | 526.0 | 525.3 | 524.6 | 523.9 | 522.8 | 521.2 | 519.7 | 518.1 | 516.5 | 517.1 |
| 25°    | 508.8 | 508.1 | 507.4 | 506.6 | 505.9 | 504.8 | 503.3 | 501.8 | 500.4 | 498.9 | 499.0 |
| 27.5°  | 488.4 | 487.6 | 486.9 | 486.1 | 485.4 | 484.3 | 482.9 | 481.6 | 480.2 | 478.8 | 478.6 |
| 30°    | 474.8 | 473.9 | 473.1 | 472.2 | 471.4 | 470.3 | 468.9 | 467.5 | 466.2 | 464.8 | 464.4 |
| 32.5°  | 460.4 | 459.6 | 458.8 | 458.1 | 457.3 | 456.2 | 454.8 | 453.3 | 451.9 | 450.4 | 449.9 |
| 35°    | 437.8 | 437.1 | 436.4 | 435.6 | 434.9 | 433.8 | 432.3 | 430.8 | 429.4 | 427.9 | 427.2 |
| 37.5°  | 414.1 | 413.4 | 412.7 | 412.1 | 411.4 | 410.3 | 408.7 | 407.1 | 405.5 | 403.9 | 403.1 |
| 40°    | 398.5 | 397.7 | 396.9 | 396.0 | 395.2 | 394.0 | 392.4 | 390.8 | 389.2 | 387.7 | 386.6 |
| 42.5°  | 381.9 | 381.4 | 380.9 | 380.4 | 379.9 | 378.7 | 377.0 | 375.2 | 373.5 | 371.8 | 370.5 |
| 45°    | 357.4 | 356.6 | 355.9 | 355.2 | 354.4 | 353.2 | 351.5 | 349.8 | 348.2 | 346.5 | 345.3 |
| 47.5°  | 331.7 | 331.2 | 330.7 | 330.2 | 329.7 | 328.7 | 327.1 | 325.5 | 324.0 | 322.4 | 321.1 |
| 50°    | 314.3 | 313.9 | 313.5 | 313.0 | 312.6 | 311.7 | 310.2 | 308.7 | 307.2 | 305.8 | 304.3 |
| 52.5°  | 297.3 | 296.7 | 296.2 | 295.7 | 295.2 | 294.2 | 292.6 | 291.1 | 289.5 | 288.0 | 286.7 |
| 55°    | 270.3 | 270.0 | 269.6 | 269.3 | 269.0 | 268.1 | 266.6 | 265.2 | 263.7 | 262.2 | 261.0 |
| 57.5°  | 244.5 | 244.2 | 243.8 | 243.5 | 243.1 | 242.2 | 240.7 | 239.3 | 237.8 | 236.4 | 235.2 |
| 60°    | 226.7 | 226.2 | 225.7 | 225.1 | 224.6 | 223.7 | 222.3 | 220.9 | 219.6 | 218.2 | 217.3 |
| 62.5°  | 209.3 | 208.9 | 208.4 | 208.0 | 207.5 | 206.6 | 205.1 | 203.7 | 202.2 | 200.8 | 199.9 |
| 65°    | 183.2 | 182.7 | 182.1 | 181.6 | 181.1 | 180.3 | 179.2 | 178.2 | 177.1 | 176.1 | 175.0 |
| 67.5°  | 156.9 | 156.4 | 155.9 | 155.4 | 154.9 | 154.2 | 153.2 | 152.2 | 151.2 | 150.1 | 149.1 |
| 70°    | 140.6 | 139.8 | 139.1 | 138.4 | 137.6 | 136.8 | 136.0 | 135.2 | 134.3 | 133.5 | 132.6 |
| 72.5°  | 123.2 | 122.4 | 121.7 | 121.0 | 120.2 | 119.5 | 118.8 | 118.2 | 117.5 | 116.8 | 116.1 |
| 75°    | 97.5  | 97.0  | 96.5  | 95.9  | 95.4  | 94.9  | 94.4  | 93.8  | 93.3  | 92.8  | 92.4  |
| 77.5°  | 73.0  | 72.8  | 72.5  | 72.3  | 72.1  | 71.7  | 71.3  | 70.8  | 70.3  | 69.9  | 69.7  |
| 80°    | 58.2  | 57.9  | 57.6  | 57.3  | 57.0  | 56.7  | 56.5  | 56.3  | 56.1  | 55.9  | 55.6  |
| 82.5°  | 43.8  | 43.7  | 43.5  | 43.4  | 43.2  | 43.1  | 43.1  | 43.1  | 43.0  | 43.0  | 42.9  |
| 85°    | 25.6  | 25.6  | 25.6  | 25.6  | 25.6  | 25.5  | 25.2  | 25.0  | 24.8  | 24.6  | 24.6  |
| 87.5°  | 10.3  | 10.6  | 10.9  | 11.2  | 11.5  | 11.8  | 11.9  | 12.1  | 12.3  | 12.5  | 12.7  |
| 90°    | 2.3   | 4.3   | 6.2   | 8.1   | 10.0  | 11.6  | 13.0  | 14.4  | 15.8  | 17.2  | 18.2  |
| 92.5°  | 9.9   | 10.0  | 10.1  | 10.2  | 10.3  | 11.0  | 12.4  | 13.8  | 15.2  | 16.6  | 17.6  |
| 95°    | 43.0  | 37.1  | 31.2  | 25.3  | 19.4  | 16.5  | 16.7  | 16.9  | 17.0  | 17.2  | 18.2  |
| 97.5°  | 91.3  | 95.0  | 98.7  | 102.4 | 106.1 | 98.2  | 78.8  | 59.4  | 40.0  | 20.6  | 20.7  |
| 100°   | 128.2 | 131.4 | 134.5 | 137.6 | 140.7 | 130.3 | 106.3 | 82.4  | 58.4  | 34.4  | 31.4  |
| 102.5° | 169.5 | 171.8 | 174.1 | 176.4 | 178.7 | 178.3 | 175.1 | 172.0 | 168.9 | 165.8 | 133.9 |
| 105°   | 235.3 | 236.4 | 237.4 | 238.5 | 239.5 | 240.5 | 241.3 | 242.2 | 243.1 | 243.9 | 245.5 |
| 107.5° | 296.5 | 297.0 | 297.5 | 298.1 | 298.6 | 299.4 | 300.6 | 301.8 | 303.0 | 304.2 | 304.9 |
| 110°   | 337.8 | 338.3 | 338.8 | 339.3 | 339.9 | 340.6 | 341.7 | 342.7 | 343.8 | 344.8 | 345.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 377.8  | 378.7  | 379.7  | 380.6  | 381.6  | 382.3  | 382.8  | 383.2  | 383.7  | 384.2  | 384.2  |
| 115°   | 439.4  | 439.9  | 440.5  | 441.0  | 441.5  | 441.7  | 441.5  | 441.3  | 441.2  | 441.0  | 441.3  |
| 117.5° | 494.9  | 495.6  | 496.3  | 497.0  | 497.7  | 498.3  | 498.6  | 499.0  | 499.4  | 499.8  | 499.7  |
| 120°   | 532.5  | 533.2  | 533.9  | 534.6  | 535.2  | 535.5  | 535.3  | 535.2  | 535.0  | 534.8  | 535.2  |
| 122.5° | 567.5  | 567.9  | 568.3  | 568.7  | 569.2  | 569.5  | 569.7  | 570.0  | 570.2  | 570.5  | 570.7  |
| 125°   | 617.7  | 618.4  | 619.1  | 619.8  | 620.5  | 620.6  | 620.3  | 620.0  | 619.6  | 619.3  | 619.8  |
| 127.5° | 665.2  | 665.4  | 665.6  | 665.8  | 665.9  | 666.4  | 667.2  | 668.0  | 668.8  | 669.6  | 669.5  |
| 130°   | 695.9  | 696.1  | 696.2  | 696.4  | 696.6  | 696.9  | 697.4  | 698.0  | 698.5  | 699.0  | 699.2  |
| 132.5° | 724.0  | 724.3  | 724.7  | 725.0  | 725.3  | 725.8  | 726.4  | 727.1  | 727.7  | 728.4  | 728.6  |
| 135°   | 766.3  | 766.1  | 765.9  | 765.7  | 765.6  | 765.8  | 766.5  | 767.2  | 767.9  | 768.6  | 768.9  |
| 137.5° | 803.6  | 803.7  | 803.8  | 803.8  | 803.9  | 804.3  | 805.1  | 805.9  | 806.6  | 807.4  | 807.8  |
| 140°   | 828.0  | 828.4  | 828.7  | 829.1  | 829.4  | 829.8  | 830.1  | 830.5  | 830.8  | 831.1  | 831.7  |
| 142.5° | 849.9  | 850.5  | 851.2  | 851.8  | 852.4  | 852.8  | 853.0  | 853.3  | 853.5  | 853.7  | 854.1  |
| 145°   | 883.5  | 884.1  | 884.6  | 885.1  | 885.6  | 885.9  | 885.9  | 885.9  | 885.9  | 885.9  | 886.1  |
| 147.5° | 910.3  | 911.3  | 912.2  | 913.2  | 914.2  | 914.6  | 914.4  | 914.2  | 914.0  | 913.9  | 914.0  |
| 150°   | 929.7  | 930.4  | 931.1  | 931.8  | 932.4  | 932.7  | 932.5  | 932.4  | 932.2  | 932.0  | 932.0  |
| 152.5° | 945.9  | 946.5  | 947.0  | 947.6  | 948.2  | 948.3  | 948.0  | 947.7  | 947.3  | 947.0  | 947.3  |
| 155°   | 968.8  | 968.9  | 969.1  | 969.3  | 969.5  | 969.3  | 968.8  | 968.2  | 967.7  | 967.2  | 967.9  |
| 157.5° | 988.0  | 987.9  | 987.8  | 987.7  | 987.6  | 987.2  | 986.6  | 986.1  | 985.5  | 984.9  | 985.8  |
| 160°   | 999.3  | 998.7  | 998.2  | 997.7  | 997.2  | 996.8  | 996.7  | 996.5  | 996.3  | 996.1  | 997.2  |
| 162.5° | 1009.3 | 1008.6 | 1007.9 | 1007.3 | 1006.6 | 1006.2 | 1006.0 | 1005.9 | 1005.7 | 1005.5 | 1006.6 |
| 165°   | 1021.9 | 1021.1 | 1020.2 | 1019.3 | 1018.5 | 1018.0 | 1018.0 | 1018.0 | 1018.0 | 1018.0 | 1019.4 |
| 167.5° | 1031.9 | 1031.0 | 1030.1 | 1029.2 | 1028.3 | 1027.8 | 1027.7 | 1027.6 | 1027.5 | 1027.4 | 1028.9 |
| 170°   | 1037.6 | 1036.5 | 1035.5 | 1034.4 | 1033.4 | 1033.0 | 1033.1 | 1033.3 | 1033.5 | 1033.7 | 1035.0 |
| 172.5° | 1041.3 | 1040.3 | 1039.2 | 1038.2 | 1037.2 | 1036.7 | 1036.9 | 1037.1 | 1037.2 | 1037.4 | 1038.8 |
| 175°   | 1045.4 | 1044.3 | 1043.3 | 1042.3 | 1041.2 | 1040.8 | 1041.0 | 1041.1 | 1041.3 | 1041.5 | 1043.0 |
| 177.5° | 1047.3 | 1046.3 | 1045.3 | 1044.3 | 1043.4 | 1043.0 | 1043.3 | 1043.6 | 1043.9 | 1044.1 | 1045.2 |
| 180°   | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5°   | 588.6 | 589.5 | 590.3 | 590.7 | 590.6 | 590.5 | 590.4 | 590.3 |
| 5°     | 585.5 | 586.6 | 587.8 | 588.2 | 588.0 | 587.8 | 587.6 | 587.4 |
| 7.5°   | 578.9 | 579.9 | 580.8 | 581.2 | 581.1 | 580.9 | 580.8 | 580.7 |
| 10°    | 573.5 | 574.3 | 575.2 | 575.5 | 575.3 | 575.0 | 574.8 | 574.6 |
| 12.5°  | 566.8 | 567.7 | 568.7 | 569.0 | 568.7 | 568.4 | 568.1 | 567.8 |
| 15°    | 554.1 | 554.7 | 555.4 | 555.5 | 555.2 | 554.9 | 554.6 | 554.3 |
| 17.5°  | 539.6 | 540.0 | 540.4 | 540.5 | 540.3 | 540.1 | 539.9 | 539.7 |
| 20°    | 528.9 | 529.2 | 529.5 | 529.6 | 529.3 | 529.1 | 528.9 | 528.7 |
| 22.5°  | 517.6 | 518.2 | 518.8 | 518.9 | 518.5 | 518.1 | 517.7 | 517.4 |
| 25°    | 499.1 | 499.2 | 499.3 | 499.2 | 498.7 | 498.3 | 497.9 | 497.5 |
| 27.5°  | 478.3 | 478.1 | 477.8 | 477.4 | 476.9 | 476.4 | 475.8 | 475.3 |
| 30°    | 464.0 | 463.6 | 463.1 | 462.7 | 462.1 | 461.6 | 461.1 | 460.6 |
| 32.5°  | 449.4 | 448.9 | 448.4 | 447.9 | 447.4 | 446.8 | 446.3 | 445.8 |
| 35°    | 426.4 | 425.7 | 424.9 | 424.3 | 423.8 | 423.3 | 422.7 | 422.2 |
| 37.5°  | 402.3 | 401.5 | 400.7 | 400.0 | 399.3 | 398.6 | 397.9 | 397.2 |
| 40°    | 385.6 | 384.5 | 383.5 | 382.7 | 382.1 | 381.6 | 381.1 | 380.6 |
| 42.5°  | 369.3 | 368.1 | 366.9 | 366.1 | 365.7 | 365.4 | 365.0 | 364.7 |
| 45°    | 344.2 | 343.0 | 341.9 | 341.1 | 340.8 | 340.5 | 340.2 | 339.9 |
| 47.5°  | 319.8 | 318.5 | 317.2 | 316.2 | 315.4 | 314.6 | 313.8 | 313.0 |
| 50°    | 302.8 | 301.4 | 299.9 | 298.8 | 298.2 | 297.6 | 296.9 | 296.3 |
| 52.5°  | 285.4 | 284.1 | 282.8 | 281.7 | 280.9 | 280.1 | 279.3 | 278.5 |
| 55°    | 259.7 | 258.4 | 257.2 | 256.2 | 255.6 | 255.0 | 254.3 | 253.7 |
| 57.5°  | 234.0 | 232.8 | 231.6 | 230.7 | 230.1 | 229.5 | 228.9 | 228.2 |
| 60°    | 216.3 | 215.4 | 214.4 | 213.7 | 213.2 | 212.6 | 212.1 | 211.6 |
| 62.5°  | 199.1 | 198.2 | 197.3 | 196.6 | 196.1 | 195.6 | 195.1 | 194.5 |
| 65°    | 174.0 | 172.9 | 171.9 | 171.1 | 170.6 | 170.0 | 169.5 | 169.0 |
| 67.5°  | 148.1 | 147.1 | 146.1 | 145.5 | 145.4 | 145.2 | 145.1 | 144.9 |
| 70°    | 131.8 | 131.0 | 130.1 | 129.5 | 129.2 | 128.9 | 128.6 | 128.3 |
| 72.5°  | 115.5 | 114.8 | 114.1 | 113.6 | 113.3 | 113.0 | 112.7 | 112.4 |
| 75°    | 91.9  | 91.5  | 91.1  | 90.8  | 90.7  | 90.6  | 90.5  | 90.4  |
| 77.5°  | 69.6  | 69.5  | 69.4  | 69.2  | 68.9  | 68.6  | 68.3  | 68.1  |
| 80°    | 55.4  | 55.2  | 55.0  | 54.9  | 54.7  | 54.6  | 54.5  | 54.4  |
| 82.5°  | 42.7  | 42.6  | 42.5  | 42.4  | 42.3  | 42.1  | 42.0  | 41.9  |
| 85°    | 24.6  | 24.6  | 24.6  | 24.6  | 24.5  | 24.4  | 24.2  | 24.1  |
| 87.5°  | 12.9  | 13.2  | 13.4  | 13.5  | 13.6  | 13.6  | 13.7  | 13.8  |
| 90°    | 19.3  | 20.3  | 21.4  | 22.1  | 22.4  | 22.8  | 23.1  | 23.5  |
| 92.5°  | 18.7  | 19.7  | 20.7  | 21.3  | 21.4  | 21.4  | 21.5  | 21.6  |
| 95°    | 19.3  | 20.3  | 21.4  | 22.0  | 22.2  | 22.3  | 22.5  | 22.7  |
| 97.5°  | 20.9  | 21.0  | 21.1  | 21.2  | 21.4  | 21.5  | 21.7  | 21.9  |
| 100°   | 28.5  | 25.5  | 22.6  | 21.2  | 21.4  | 21.5  | 21.7  | 21.9  |
| 102.5° | 102.0 | 70.2  | 38.3  | 22.4  | 22.4  | 22.4  | 22.5  | 22.5  |
| 105°   | 247.1 | 248.6 | 250.2 | 247.9 | 241.6 | 235.3 | 229.1 | 222.8 |
| 107.5° | 305.7 | 306.4 | 307.2 | 307.9 | 308.6 | 309.2 | 309.9 | 310.6 |
| 110°   | 345.5 | 345.9 | 346.2 | 346.6 | 347.2 | 347.7 | 348.2 | 348.7 |





TEST NUMBER: P332514

CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 384.1  | 384.0  | 383.9  | 384.2  | 384.9  | 385.6  | 386.2  | 386.9  |
| 115°   | 441.7  | 442.0  | 442.4  | 442.6  | 442.6  | 442.6  | 442.6  | 442.6  |
| 117.5° | 499.6  | 499.6  | 499.5  | 499.4  | 499.4  | 499.3  | 499.2  | 499.2  |
| 120°   | 535.5  | 535.9  | 536.2  | 536.2  | 535.9  | 535.5  | 535.2  | 534.8  |
| 122.5° | 570.9  | 571.1  | 571.3  | 571.2  | 570.9  | 570.5  | 570.2  | 569.8  |
| 125°   | 620.3  | 620.8  | 621.3  | 621.7  | 621.9  | 622.0  | 622.2  | 622.4  |
| 127.5° | 669.4  | 669.3  | 669.2  | 669.1  | 668.9  | 668.8  | 668.7  | 668.5  |
| 130°   | 699.4  | 699.5  | 699.7  | 699.8  | 699.8  | 699.8  | 699.8  | 699.8  |
| 132.5° | 728.8  | 728.9  | 729.1  | 729.1  | 729.0  | 728.8  | 728.7  | 728.6  |
| 135°   | 769.3  | 769.6  | 770.0  | 770.3  | 770.7  | 771.0  | 771.4  | 771.7  |
| 137.5° | 808.1  | 808.5  | 808.9  | 809.0  | 808.9  | 808.8  | 808.7  | 808.6  |
| 140°   | 832.2  | 832.7  | 833.2  | 833.6  | 833.8  | 833.9  | 834.1  | 834.3  |
| 142.5° | 854.4  | 854.8  | 855.2  | 855.4  | 855.4  | 855.5  | 855.5  | 855.5  |
| 145°   | 886.2  | 886.4  | 886.6  | 886.8  | 887.2  | 887.5  | 887.9  | 888.2  |
| 147.5° | 914.2  | 914.3  | 914.4  | 914.6  | 914.8  | 914.9  | 915.1  | 915.3  |
| 150°   | 932.0  | 932.0  | 932.0  | 932.1  | 932.3  | 932.4  | 932.6  | 932.8  |
| 152.5° | 947.6  | 947.9  | 948.1  | 948.2  | 948.1  | 948.0  | 947.9  | 947.8  |
| 155°   | 968.6  | 969.3  | 970.0  | 970.1  | 969.5  | 969.0  | 968.5  | 968.0  |
| 157.5° | 986.7  | 987.6  | 988.5  | 988.5  | 987.6  | 986.7  | 985.8  | 984.9  |
| 160°   | 998.2  | 999.3  | 1000.3 | 1000.3 | 999.3  | 998.2  | 997.2  | 996.1  |
| 162.5° | 1007.6 | 1008.6 | 1009.7 | 1009.6 | 1008.4 | 1007.2 | 1006.1 | 1004.9 |
| 165°   | 1020.8 | 1022.2 | 1023.6 | 1023.5 | 1021.9 | 1020.4 | 1018.8 | 1017.2 |
| 167.5° | 1030.5 | 1032.0 | 1033.5 | 1033.4 | 1031.7 | 1029.9 | 1028.2 | 1026.5 |
| 170°   | 1036.4 | 1037.8 | 1039.2 | 1039.0 | 1037.3 | 1035.6 | 1033.8 | 1032.1 |
| 172.5° | 1040.2 | 1041.6 | 1043.0 | 1042.7 | 1040.9 | 1039.0 | 1037.1 | 1035.2 |
| 175°   | 1044.6 | 1046.2 | 1047.7 | 1047.5 | 1045.4 | 1043.3 | 1041.2 | 1039.1 |
| 177.5° | 1046.4 | 1047.5 | 1048.6 | 1048.3 | 1046.6 | 1045.0 | 1043.3 | 1041.6 |
| 180°   | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 | 1045.4 |

(END OF REPORT)