

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: P332558

Luminaire Tested: **SA4XXDIP-C575D810U835-4F0-1E-UDD-D4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332558  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C575D810U835-4F0-1E-UDD-D4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

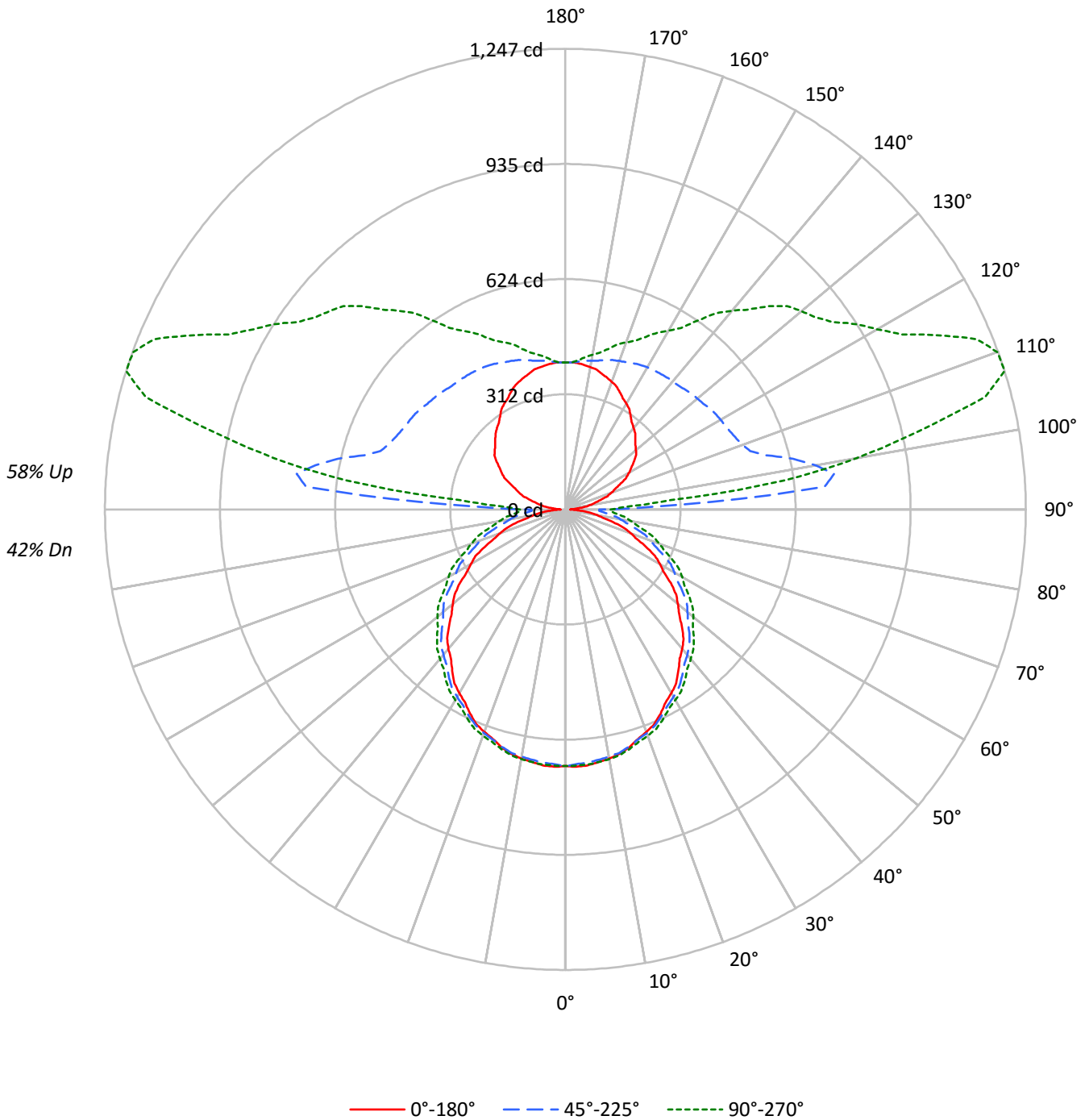
Lumens per Lamp: N/A  
Luminaire Lumens: 5265.6 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

Input Watts (W): 38.4  
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: P332558  
CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-D4

### Luminous Intensity Polar Plot





TEST NUMBER: P332558

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-D4

**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 | 48 | 48 | 48 | 42 |
| 1   | 95  | 90  | 86  | 83  | 86 | 82 | 79 | 76 | 68 | 65 | 63 | 54 | 52 | 51 | 41 | 40 | 39 | 33 |
| 2   | 86  | 78  | 72  | 67  | 78 | 72 | 66 | 61 | 59 | 55 | 51 | 47 | 44 | 42 | 36 | 34 | 32 | 27 |
| 3   | 78  | 69  | 61  | 55  | 71 | 63 | 56 | 51 | 52 | 47 | 43 | 41 | 38 | 35 | 32 | 29 | 27 | 23 |
| 4   | 72  | 60  | 52  | 46  | 65 | 55 | 48 | 43 | 46 | 40 | 36 | 36 | 33 | 29 | 28 | 25 | 23 | 19 |
| 5   | 66  | 54  | 45  | 39  | 59 | 49 | 42 | 36 | 41 | 35 | 31 | 33 | 29 | 25 | 25 | 22 | 20 | 16 |
| 6   | 60  | 48  | 40  | 34  | 55 | 44 | 37 | 31 | 36 | 31 | 27 | 29 | 25 | 22 | 23 | 20 | 17 | 14 |
| 7   | 56  | 43  | 35  | 30  | 50 | 40 | 33 | 27 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 15 | 13 |
| 8   | 52  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 30 | 24 | 21 | 24 | 20 | 17 | 19 | 16 | 14 | 11 |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 12 | 10 |
| 10  | 45  | 33  | 25  | 21  | 41 | 30 | 24 | 19 | 25 | 20 | 16 | 21 | 17 | 14 | 16 | 13 | 11 | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5610 | 5610 | 5610 |
| 5°  | 5628 | 5483 | 5498 |
| 10° | 5593 | 5393 | 5388 |
| 15° | 5543 | 5289 | 5260 |
| 20° | 5467 | 5175 | 5135 |
| 25° | 5382 | 5046 | 4997 |
| 30° | 5290 | 4919 | 4856 |
| 35° | 5185 | 4787 | 4732 |
| 40° | 5102 | 4663 | 4603 |
| 45° | 4978 | 4549 | 4492 |
| 50° | 4873 | 4416 | 4375 |
| 55° | 4765 | 4291 | 4237 |
| 60° | 4596 | 4132 | 4112 |
| 65° | 4410 | 3962 | 3958 |
| 70° | 4186 | 3768 | 3778 |
| 75° | 3872 | 3553 | 3616 |
| 80° | 3526 | 3347 | 3457 |
| 85° | 3082 | 3163 | 3364 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.8   | 1.2       |
| 10°-20°   | 188.5  | 3.6       |
| 20°-30°   | 285.1  | 5.4       |
| 30°-40°   | 344.9  | 6.6       |
| 40°-50°   | 364.7  | 6.9       |
| 50°-60°   | 343.2  | 6.5       |
| 60°-70°   | 284.7  | 5.4       |
| 70°-80°   | 200.0  | 3.8       |
| 80°-90°   | 115.3  | 2.2       |
| 90°-100°  | 354.6  | 6.7       |
| 100°-110° | 648.0  | 12.3      |
| 110°-120° | 569.2  | 10.8      |
| 120°-130° | 469.6  | 8.9       |
| 130°-140° | 384.0  | 7.3       |
| 140°-150° | 288.8  | 5.5       |
| 150°-160° | 201.8  | 3.8       |
| 160°-170° | 118.7  | 2.3       |
| 170°-180° | 38.6   | 0.7       |
| 0°-30°    | 539.4  | 10.2      |
| 0°-40°    | 884.4  | 16.8      |
| 0°-60°    | 1592.2 | 30.2      |
| 0°-90°    | 2192.2 | 41.6      |
| 90°-120°  | 1571.8 | 29.9      |
| 90°-150°  | 2714.2 | 51.5      |
| 90°-180°  | 3073.0 | 58.4      |
| 0°-180°   | 5265.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 695 | 695   | 695 | 695   | 695  |      |
| 5°   | 696 | 693   | 688 | 694   | 693  | 66   |
| 15°  | 667 | 668   | 665 | 672   | 672  | 188  |
| 25°  | 610 | 615   | 617 | 625   | 626  | 281  |
| 35°  | 534 | 543   | 551 | 561   | 564  | 334  |
| 45°  | 445 | 460   | 475 | 487   | 492  | 344  |
| 55°  | 349 | 365   | 388 | 403   | 408  | 311  |
| 65°  | 241 | 266   | 293 | 311   | 318  | 239  |
| 75°  | 134 | 163   | 195 | 216   | 224  | 142  |
| 85°  | 41  | 74    | 109 | 131   | 140  | 44   |
| 90°  | 13  | 50    | 91  | 114   | 122  | 10   |
| 95°  | 36  | 117   | 705 | 403   | 286  | 37   |
| 105° | 98  | 156   | 564 | 1175  | 1177 | 105  |
| 115° | 166 | 215   | 494 | 932   | 1116 | 165  |
| 125° | 228 | 270   | 477 | 784   | 884  | 203  |
| 135° | 268 | 319   | 458 | 683   | 778  | 208  |
| 145° | 308 | 352   | 449 | 564   | 623  | 193  |
| 155° | 350 | 377   | 436 | 494   | 515  | 161  |
| 165° | 381 | 393   | 418 | 443   | 450  | 107  |
| 175° | 397 | 398   | 401 | 407   | 405  | 38   |
| 180° | 398 | 398   | 398 | 398   | 398  |      |



TEST NUMBER: P332558

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 |
| 2.5°   | 697.4 | 697.0 | 696.6 | 696.1 | 695.7 | 695.0 | 693.9 | 692.8 | 691.6 | 690.5 | 691.5 |
| 5°     | 695.7 | 695.2 | 694.6 | 694.1 | 693.6 | 692.7 | 691.5 | 690.3 | 689.1 | 687.9 | 689.3 |
| 7.5°   | 689.8 | 689.4 | 689.1 | 688.8 | 688.5 | 687.9 | 686.9 | 685.9 | 684.8 | 683.8 | 685.4 |
| 10°    | 684.8 | 684.6 | 684.4 | 684.3 | 684.1 | 683.6 | 682.7 | 681.8 | 681.0 | 680.1 | 681.7 |
| 12.5°  | 677.9 | 677.9 | 677.9 | 677.8 | 677.8 | 677.5 | 676.9 | 676.3 | 675.7 | 675.1 | 676.5 |
| 15°    | 666.9 | 667.1 | 667.2 | 667.4 | 667.6 | 667.4 | 666.9 | 666.4 | 665.8 | 665.3 | 666.9 |
| 17.5°  | 651.8 | 652.3 | 652.8 | 653.3 | 653.9 | 654.1 | 654.0 | 653.9 | 653.8 | 653.7 | 655.2 |
| 20°    | 641.2 | 641.7 | 642.2 | 642.8 | 643.3 | 643.6 | 643.8 | 644.0 | 644.1 | 644.3 | 646.0 |
| 22.5°  | 629.4 | 630.0 | 630.7 | 631.3 | 632.0 | 632.5 | 632.8 | 633.1 | 633.4 | 633.7 | 635.5 |
| 25°    | 610.1 | 611.1 | 612.2 | 613.2 | 614.2 | 615.0 | 615.5 | 616.0 | 616.6 | 617.1 | 619.0 |
| 27.5°  | 588.6 | 590.1 | 591.6 | 593.2 | 594.7 | 595.8 | 596.6 | 597.4 | 598.2 | 599.0 | 600.8 |
| 30°    | 574.3 | 575.7 | 577.0 | 578.4 | 579.8 | 581.1 | 582.3 | 583.5 | 584.7 | 586.0 | 587.9 |
| 32.5°  | 558.7 | 560.4 | 562.0 | 563.7 | 565.4 | 566.9 | 568.2 | 569.6 | 570.9 | 572.3 | 574.4 |
| 35°    | 533.8 | 535.9 | 538.0 | 540.0 | 542.1 | 544.0 | 545.7 | 547.5 | 549.2 | 550.9 | 553.4 |
| 37.5°  | 508.8 | 511.1 | 513.5 | 515.9 | 518.3 | 520.6 | 522.7 | 524.9 | 527.0 | 529.1 | 531.6 |
| 40°    | 492.6 | 494.8 | 497.1 | 499.3 | 501.6 | 503.9 | 506.3 | 508.7 | 511.2 | 513.6 | 516.2 |
| 42.5°  | 473.9 | 476.4 | 478.9 | 481.5 | 484.0 | 486.7 | 489.5 | 492.3 | 495.2 | 498.0 | 500.9 |
| 45°    | 445.1 | 448.4 | 451.7 | 455.0 | 458.2 | 461.5 | 464.8 | 468.1 | 471.4 | 474.7 | 477.6 |
| 47.5°  | 417.6 | 420.9 | 424.3 | 427.7 | 431.1 | 434.7 | 438.5 | 442.3 | 446.1 | 449.9 | 453.0 |
| 50°    | 397.6 | 401.4 | 405.2 | 409.1 | 412.9 | 416.7 | 420.5 | 424.3 | 428.1 | 431.9 | 435.3 |
| 52.5°  | 377.7 | 381.5 | 385.3 | 389.1 | 392.9 | 397.0 | 401.4 | 405.7 | 410.1 | 414.4 | 417.9 |
| 55°    | 348.6 | 352.2 | 355.9 | 359.5 | 363.1 | 367.5 | 372.7 | 377.9 | 383.1 | 388.3 | 391.8 |
| 57.5°  | 316.1 | 320.6 | 325.1 | 329.6 | 334.1 | 338.9 | 344.0 | 349.2 | 354.4 | 359.5 | 363.6 |
| 60°    | 294.9 | 299.4 | 303.9 | 308.4 | 312.9 | 318.0 | 323.7 | 329.4 | 335.1 | 340.8 | 344.8 |
| 62.5°  | 274.4 | 279.3 | 284.2 | 289.1 | 294.0 | 299.3 | 305.0 | 310.7 | 316.5 | 322.2 | 326.1 |
| 65°    | 241.2 | 246.8 | 252.3 | 257.8 | 263.4 | 269.1 | 274.9 | 280.8 | 286.7 | 292.6 | 296.9 |
| 67.5°  | 209.3 | 215.2 | 221.1 | 227.0 | 232.8 | 238.9 | 245.2 | 251.5 | 257.8 | 264.1 | 268.5 |
| 70°    | 187.5 | 193.4 | 199.3 | 205.2 | 211.1 | 217.3 | 223.8 | 230.4 | 237.0 | 243.6 | 248.2 |
| 72.5°  | 166.4 | 172.4 | 178.4 | 184.4 | 190.4 | 196.9 | 203.9 | 210.9 | 217.9 | 224.9 | 229.4 |
| 75°    | 133.8 | 140.2 | 146.6 | 153.0 | 159.4 | 166.3 | 173.5 | 180.8 | 188.1 | 195.3 | 200.2 |
| 77.5°  | 103.5 | 110.3 | 117.1 | 123.8 | 130.6 | 137.8 | 145.4 | 153.0 | 160.6 | 168.2 | 173.1 |
| 80°    | 84.8  | 91.7  | 98.7  | 105.6 | 112.5 | 119.7 | 127.4 | 135.0 | 142.6 | 150.2 | 155.4 |
| 82.5°  | 66.1  | 73.3  | 80.5  | 87.7  | 94.9  | 102.3 | 109.9 | 117.5 | 125.1 | 132.8 | 138.1 |
| 85°    | 41.2  | 48.5  | 55.8  | 63.0  | 70.3  | 77.8  | 85.6  | 93.4  | 101.2 | 108.9 | 114.1 |
| 87.5°  | 23.2  | 30.6  | 38.1  | 45.3  | 52.5  | 59.8  | 68.3  | 75.9  | 83.8  | 91.7  | 96.5  |
| 90°    | 13.2  | 21.7  | 31.0  | 38.7  | 46.4  | 53.6  | 65.7  | 73.1  | 82.1  | 91.1  | 95.3  |
| 92.5°  | 20.7  | 31.0  | 44.6  | 60.4  | 78.0  | 101.1 | 148.3 | 216.4 | 282.9 | 321.3 | 284.8 |
| 95°    | 35.9  | 44.0  | 57.5  | 73.4  | 97.8  | 137.1 | 212.2 | 347.5 | 541.5 | 705.0 | 727.6 |
| 97.5°  | 55.5  | 60.4  | 72.0  | 86.3  | 107.3 | 140.8 | 200.2 | 313.1 | 505.9 | 734.1 | 890.6 |
| 100°   | 68.0  | 72.5  | 82.5  | 96.3  | 115.7 | 146.3 | 199.2 | 294.3 | 460.6 | 687.8 | 892.6 |
| 102.5° | 80.5  | 85.7  | 94.5  | 107.2 | 125.4 | 154.4 | 202.8 | 287.1 | 429.4 | 631.5 | 842.5 |
| 105°   | 98.5  | 104.3 | 111.7 | 124.5 | 142.0 | 169.6 | 213.6 | 284.9 | 400.7 | 564.3 | 752.4 |
| 107.5° | 119.9 | 124.3 | 131.1 | 143.9 | 160.2 | 187.0 | 227.5 | 292.6 | 392.2 | 524.8 | 679.0 |
| 110°   | 133.7 | 137.7 | 144.0 | 155.8 | 172.3 | 197.6 | 238.1 | 298.9 | 390.9 | 510.4 | 641.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 146.8 | 150.5 | 157.2 | 168.1 | 184.3 | 209.4 | 248.3 | 305.7 | 391.9 | 501.6 | 619.2 |
| 115°   | 165.7 | 169.6 | 176.7 | 186.1 | 202.5 | 227.1 | 263.9 | 316.4 | 394.6 | 494.0 | 596.3 |
| 117.5° | 186.2 | 189.4 | 195.1 | 204.7 | 219.5 | 244.5 | 279.3 | 327.6 | 398.0 | 488.5 | 583.3 |
| 120°   | 199.4 | 201.5 | 207.4 | 216.6 | 230.4 | 255.0 | 289.8 | 335.4 | 400.7 | 485.4 | 575.7 |
| 122.5° | 211.9 | 213.5 | 219.1 | 227.2 | 241.9 | 265.5 | 300.0 | 342.9 | 403.5 | 481.7 | 567.6 |
| 125°   | 227.5 | 230.5 | 235.0 | 243.4 | 258.1 | 282.1 | 314.6 | 354.8 | 408.4 | 476.9 | 555.2 |
| 127.5° | 241.9 | 244.2 | 249.7 | 259.4 | 274.7 | 298.3 | 328.8 | 365.2 | 411.5 | 470.5 | 539.3 |
| 130°   | 249.4 | 252.4 | 258.5 | 270.0 | 284.7 | 308.7 | 338.0 | 371.3 | 413.9 | 466.7 | 529.3 |
| 132.5° | 257.6 | 259.9 | 267.8 | 278.8 | 294.7 | 317.2 | 346.0 | 378.0 | 416.4 | 463.6 | 520.4 |
| 135°   | 268.2 | 271.3 | 279.1 | 292.4 | 308.9 | 329.8 | 356.8 | 386.2 | 419.4 | 458.2 | 506.3 |
| 137.5° | 279.6 | 282.4 | 290.8 | 303.3 | 320.2 | 339.8 | 364.5 | 391.3 | 420.4 | 454.4 | 494.3 |
| 140°   | 287.7 | 289.9 | 298.3 | 311.5 | 327.7 | 346.5 | 370.1 | 395.3 | 422.1 | 451.9 | 487.8 |
| 142.5° | 295.9 | 298.2 | 306.1 | 318.8 | 334.5 | 352.6 | 375.3 | 398.4 | 423.6 | 450.7 | 482.5 |
| 145°   | 308.1 | 310.2 | 317.9 | 328.7 | 343.4 | 360.5 | 380.8 | 401.9 | 424.6 | 448.8 | 474.9 |
| 147.5° | 322.0 | 322.6 | 329.3 | 340.4 | 352.6 | 368.0 | 387.1 | 405.5 | 425.4 | 446.0 | 468.2 |
| 150°   | 330.7 | 331.4 | 337.4 | 346.7 | 358.2 | 373.0 | 390.2 | 407.4 | 425.4 | 444.1 | 463.7 |
| 152.5° | 338.3 | 338.4 | 344.6 | 353.3 | 363.8 | 377.4 | 392.7 | 408.6 | 424.1 | 441.0 | 458.7 |
| 155°   | 349.5 | 350.3 | 355.0 | 362.8 | 371.4 | 383.1 | 396.4 | 409.7 | 422.2 | 436.3 | 451.2 |
| 157.5° | 360.6 | 360.6 | 365.0 | 371.1 | 378.6 | 387.8 | 399.1 | 409.7 | 420.2 | 431.5 | 443.5 |
| 160°   | 367.5 | 367.5 | 370.6 | 376.1 | 382.4 | 391.0 | 400.3 | 409.7 | 418.3 | 427.7 | 437.9 |
| 162.5° | 373.8 | 373.1 | 375.6 | 380.5 | 386.1 | 392.8 | 401.6 | 409.7 | 416.5 | 424.0 | 432.9 |
| 165°   | 380.8 | 380.8 | 382.4 | 386.3 | 390.2 | 394.9 | 401.9 | 408.2 | 412.9 | 418.3 | 424.6 |
| 167.5° | 387.8 | 387.1 | 387.8 | 390.8 | 393.0 | 396.6 | 401.8 | 406.3 | 409.1 | 412.7 | 417.1 |
| 170°   | 391.0 | 390.2 | 391.0 | 393.3 | 394.9 | 397.2 | 401.1 | 405.0 | 406.6 | 408.9 | 412.1 |
| 172.5° | 394.1 | 393.3 | 393.5 | 395.2 | 396.1 | 397.8 | 400.5 | 403.8 | 404.1 | 405.2 | 407.7 |
| 175°   | 397.2 | 396.4 | 396.4 | 397.2 | 398.0 | 398.0 | 399.6 | 401.9 | 401.1 | 401.1 | 402.7 |
| 177.5° | 398.6 | 398.0 | 397.4 | 398.0 | 398.0 | 398.0 | 398.6 | 399.9 | 398.6 | 398.6 | 399.2 |
| 180°   | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 | 398.0 |



TEST NUMBER: P332558

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 694.9  | 694.9  | 694.9  | 694.9  | 694.9  | 694.9  | 694.9  | 694.9  |
| 2.5°   | 692.5  | 693.4  | 694.4  | 694.8  | 694.7  | 694.5  | 694.4  | 694.3  |
| 5°     | 690.7  | 692.0  | 693.4  | 694.0  | 693.9  | 693.7  | 693.5  | 693.3  |
| 7.5°   | 687.0  | 688.5  | 690.1  | 690.8  | 690.6  | 690.4  | 690.2  | 690.1  |
| 10°    | 683.2  | 684.8  | 686.3  | 687.0  | 686.9  | 686.7  | 686.5  | 686.3  |
| 12.5°  | 678.0  | 679.4  | 680.8  | 681.5  | 681.5  | 681.4  | 681.4  | 681.4  |
| 15°    | 668.4  | 670.0  | 671.5  | 672.2  | 672.1  | 671.9  | 671.7  | 671.5  |
| 17.5°  | 656.8  | 658.4  | 660.0  | 660.7  | 660.6  | 660.5  | 660.3  | 660.2  |
| 20°    | 647.8  | 649.5  | 651.2  | 652.1  | 652.1  | 652.1  | 652.1  | 652.1  |
| 22.5°  | 637.2  | 638.9  | 640.6  | 641.7  | 641.9  | 642.2  | 642.5  | 642.8  |
| 25°    | 620.9  | 622.8  | 624.7  | 625.7  | 625.9  | 626.1  | 626.2  | 626.4  |
| 27.5°  | 602.6  | 604.3  | 606.1  | 607.1  | 607.3  | 607.5  | 607.7  | 607.9  |
| 30°    | 589.8  | 591.7  | 593.6  | 594.7  | 595.0  | 595.4  | 595.7  | 596.1  |
| 32.5°  | 576.6  | 578.8  | 581.0  | 582.2  | 582.6  | 582.9  | 583.3  | 583.6  |
| 35°    | 555.8  | 558.2  | 560.6  | 562.1  | 562.6  | 563.1  | 563.6  | 564.2  |
| 37.5°  | 534.1  | 536.5  | 539.0  | 540.5  | 541.0  | 541.6  | 542.1  | 542.7  |
| 40°    | 518.8  | 521.4  | 524.0  | 525.6  | 526.3  | 527.0  | 527.7  | 528.4  |
| 42.5°  | 503.8  | 506.6  | 509.5  | 511.2  | 511.8  | 512.3  | 512.9  | 513.4  |
| 45°    | 480.6  | 483.5  | 486.4  | 488.3  | 489.2  | 490.1  | 490.9  | 491.8  |
| 47.5°  | 456.0  | 459.1  | 462.1  | 464.1  | 465.2  | 466.2  | 467.3  | 468.3  |
| 50°    | 438.8  | 442.3  | 445.7  | 448.0  | 449.0  | 450.0  | 451.1  | 452.1  |
| 52.5°  | 421.4  | 424.8  | 428.3  | 430.5  | 431.6  | 432.6  | 433.6  | 434.7  |
| 55°    | 395.2  | 398.7  | 402.1  | 404.4  | 405.4  | 406.5  | 407.5  | 408.5  |
| 57.5°  | 367.7  | 371.9  | 376.0  | 378.5  | 379.5  | 380.4  | 381.4  | 382.4  |
| 60°    | 348.8  | 352.8  | 356.7  | 359.4  | 360.8  | 362.2  | 363.6  | 365.0  |
| 62.5°  | 330.1  | 334.1  | 338.1  | 340.7  | 342.1  | 343.5  | 344.9  | 346.3  |
| 65°    | 301.2  | 305.6  | 309.9  | 312.7  | 314.1  | 315.5  | 316.9  | 318.3  |
| 67.5°  | 272.9  | 277.3  | 281.7  | 284.5  | 285.9  | 287.2  | 288.6  | 289.9  |
| 70°    | 252.9  | 257.6  | 262.2  | 265.2  | 266.4  | 267.6  | 268.8  | 270.0  |
| 72.5°  | 233.9  | 238.5  | 243.0  | 245.9  | 247.3  | 248.6  | 250.0  | 251.3  |
| 75°    | 205.0  | 209.8  | 214.7  | 217.9  | 219.4  | 221.0  | 222.6  | 224.1  |
| 77.5°  | 178.1  | 183.0  | 187.9  | 191.2  | 192.8  | 194.5  | 196.1  | 197.8  |
| 80°    | 160.6  | 165.7  | 170.9  | 174.2  | 175.6  | 177.0  | 178.4  | 179.8  |
| 82.5°  | 143.4  | 148.7  | 154.1  | 157.5  | 159.0  | 160.5  | 162.0  | 163.6  |
| 85°    | 119.3  | 124.5  | 129.7  | 133.2  | 134.9  | 136.6  | 138.3  | 140.1  |
| 87.5°  | 101.7  | 106.9  | 112.1  | 115.3  | 117.0  | 118.7  | 120.0  | 121.6  |
| 90°    | 101.1  | 106.9  | 112.7  | 115.9  | 118.1  | 120.3  | 120.9  | 122.2  |
| 92.5°  | 236.6  | 203.5  | 184.8  | 172.3  | 164.4  | 161.6  | 160.3  | 161.7  |
| 95°    | 656.4  | 539.9  | 439.8  | 367.1  | 330.3  | 307.6  | 295.1  | 286.5  |
| 97.5°  | 928.0  | 887.5  | 815.5  | 736.9  | 682.3  | 636.7  | 614.7  | 599.9  |
| 100°   | 1011.5 | 1031.8 | 998.1  | 943.2  | 876.4  | 829.9  | 807.7  | 802.6  |
| 102.5° | 1003.7 | 1085.8 | 1101.4 | 1080.3 | 1039.9 | 1006.7 | 983.3  | 979.7  |
| 105°   | 935.8  | 1075.4 | 1157.1 | 1192.0 | 1194.9 | 1190.1 | 1180.5 | 1177.2 |
| 107.5° | 841.8  | 990.1  | 1103.3 | 1175.8 | 1215.7 | 1234.8 | 1243.9 | 1247.1 |
| 110°   | 785.0  | 924.2  | 1041.6 | 1130.3 | 1187.2 | 1221.4 | 1236.9 | 1245.3 |





TEST NUMBER: P332558

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 742.2 | 865.6 | 976.6 | 1065.2 | 1129.6 | 1170.7 | 1191.8 | 1204.6 |
| 115°   | 697.9 | 797.9 | 893.1 | 970.7  | 1033.7 | 1081.8 | 1108.1 | 1115.5 |
| 117.5° | 673.4 | 756.6 | 832.1 | 898.3  | 952.3  | 993.1  | 1019.9 | 1026.1 |
| 120°   | 661.2 | 737.4 | 803.4 | 861.4  | 907.3  | 943.1  | 964.8  | 974.8  |
| 122.5° | 650.6 | 724.3 | 784.7 | 835.7  | 874.6  | 905.3  | 923.7  | 933.5  |
| 125°   | 633.6 | 704.1 | 761.3 | 806.5  | 838.8  | 862.5  | 878.4  | 884.2  |
| 127.5° | 612.9 | 680.3 | 737.2 | 780.2  | 812.8  | 834.1  | 847.8  | 853.7  |
| 130°   | 597.3 | 662.2 | 718.5 | 762.0  | 795.1  | 815.7  | 829.2  | 834.9  |
| 132.5° | 581.4 | 642.4 | 697.3 | 740.7  | 773.2  | 796.3  | 809.2  | 814.9  |
| 135°   | 558.3 | 611.9 | 662.4 | 703.4  | 735.7  | 758.6  | 772.2  | 777.9  |
| 137.5° | 537.8 | 583.4 | 626.1 | 663.1  | 693.2  | 715.7  | 726.9  | 733.4  |
| 140°   | 526.0 | 565.0 | 602.5 | 636.9  | 665.1  | 683.2  | 695.0  | 702.1  |
| 142.5° | 515.5 | 549.8 | 582.0 | 611.8  | 636.7  | 653.4  | 663.8  | 669.0  |
| 145°   | 500.9 | 528.6 | 553.1 | 575.8  | 596.1  | 610.0  | 618.6  | 623.2  |
| 147.5° | 489.0 | 510.2 | 529.1 | 546.7  | 561.6  | 573.6  | 580.1  | 582.0  |
| 150°   | 482.4 | 500.4 | 516.1 | 530.1  | 542.7  | 552.8  | 557.5  | 558.3  |
| 152.5° | 475.6 | 491.0 | 505.4 | 517.0  | 527.6  | 535.9  | 538.7  | 539.5  |
| 155°   | 465.2 | 477.8 | 489.5 | 498.9  | 506.7  | 512.9  | 515.3  | 515.3  |
| 157.5° | 454.1 | 464.6 | 474.5 | 482.0  | 487.9  | 492.6  | 494.0  | 494.0  |
| 160°   | 447.3 | 455.9 | 464.5 | 470.7  | 475.4  | 480.1  | 480.9  | 480.9  |
| 162.5° | 440.4 | 447.7 | 454.5 | 460.1  | 463.5  | 468.2  | 469.0  | 468.4  |
| 165°   | 430.8 | 435.5 | 441.0 | 444.9  | 448.0  | 451.2  | 450.4  | 449.6  |
| 167.5° | 421.6 | 425.2 | 429.6 | 431.9  | 433.5  | 435.5  | 435.4  | 434.7  |
| 170°   | 416.0 | 418.3 | 421.5 | 423.8  | 425.4  | 426.1  | 425.4  | 425.4  |
| 172.5° | 411.0 | 412.7 | 414.6 | 416.3  | 417.2  | 418.0  | 417.2  | 416.0  |
| 175°   | 404.3 | 405.0 | 406.6 | 406.6  | 406.6  | 408.2  | 406.6  | 405.0  |
| 177.5° | 399.9 | 400.5 | 400.5 | 401.1  | 400.5  | 401.1  | 399.9  | 398.6  |
| 180°   | 398.0 | 398.0 | 398.0 | 398.0  | 398.0  | 398.0  | 398.0  | 398.0  |

(END OF REPORT)