

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: P332570-930

Luminaire Tested: **SA4XXDIP-C575D1035U930-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332570-930  
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-C575D1035U930-4F0-1E-UDD-F4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

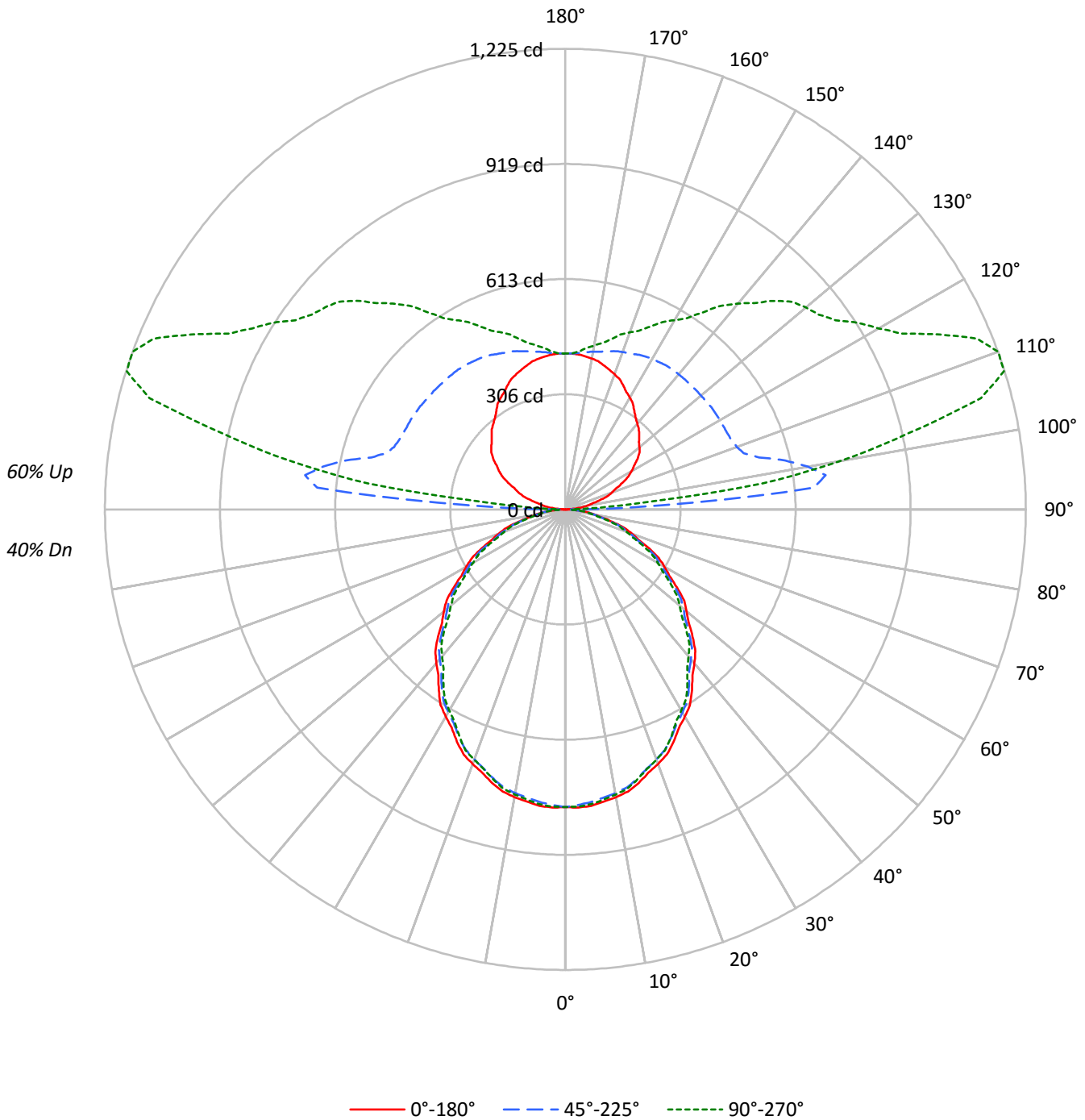
Lumens per Lamp: N/A  
Luminaire Lumens: 5047.1 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 44.5  
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



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### Luminous Intensity Polar Plot





TEST NUMBER: P332570-930

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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   | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 40 |    |    |    |   |
| 1   | 96  | 91  | 87  | 84  | 87 | 83 | 80 | 77 | 68 | 66 | 64 | 54 | 53 | 51 | 42 | 41 | 40 | 34 |    |    |    |   |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 63 | 60 | 56 | 53 | 48 | 45 | 43 | 37 | 35 | 33 | 28 |    |    |    |   |
| 3   | 79  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 48 | 44 | 42 | 39 | 36 | 32 | 30 | 28 | 24 |    |    |    |   |
| 4   | 73  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 34 | 31 | 29 | 27 | 25 | 21 |    |    |    |   |
| 5   | 67  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 42 | 37 | 32 | 34 | 30 | 27 | 26 | 23 | 21 | 18 |    |    |    |   |
| 6   | 61  | 49  | 41  | 36  | 56 | 45 | 38 | 33 | 38 | 32 | 28 | 30 | 26 | 23 | 24 | 21 | 19 | 16 |    |    |    |   |
| 7   | 57  | 44  | 37  | 31  | 51 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 | 14 |    |    |    |   |
| 8   | 52  | 40  | 33  | 27  | 48 | 37 | 30 | 26 | 31 | 26 | 22 | 25 | 21 | 18 | 20 | 17 | 15 | 12 |    |    |    |   |
| 9   | 49  | 37  | 29  | 24  | 44 | 34 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 18 | 16 | 13 | 11 |    |    |    |   |
| 10  | 46  | 34  | 27  | 22  | 41 | 31 | 25 | 20 | 26 | 21 | 18 | 21 | 18 | 15 | 17 | 14 | 12 | 10 |    |    |    |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6391 | 6391 | 6391 |
| 5°  | 6412 | 6334 | 6380 |
| 10° | 6370 | 6283 | 6314 |
| 15° | 6294 | 6193 | 6209 |
| 20° | 6192 | 6082 | 6088 |
| 25° | 6075 | 5956 | 5940 |
| 30° | 5931 | 5808 | 5754 |
| 35° | 5784 | 5653 | 5577 |
| 40° | 5630 | 5476 | 5376 |
| 45° | 5469 | 5302 | 5200 |
| 50° | 5291 | 5148 | 4987 |
| 55° | 5098 | 4947 | 4787 |
| 60° | 4907 | 4721 | 4579 |
| 65° | 4690 | 4508 | 4327 |
| 70° | 4447 | 4223 | 4057 |
| 75° | 4077 | 3877 | 3780 |
| 80° | 3626 | 3477 | 3394 |
| 85° | 3168 | 3057 | 3001 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.6   | 1.5       |
| 10°-20°   | 210.1  | 4.2       |
| 20°-30°   | 309.2  | 6.1       |
| 30°-40°   | 359.5  | 7.1       |
| 40°-50°   | 359.5  | 7.1       |
| 50°-60°   | 314.5  | 6.2       |
| 60°-70°   | 233.5  | 4.6       |
| 70°-80°   | 132.7  | 2.6       |
| 80°-90°   | 40.6   | 0.8       |
| 90°-100°  | 299.2  | 5.9       |
| 100°-110° | 622.8  | 12.3      |
| 110°-120° | 557.8  | 11.1      |
| 120°-130° | 469.2  | 9.3       |
| 130°-140° | 391.2  | 7.8       |
| 140°-150° | 298.9  | 5.9       |
| 150°-160° | 210.1  | 4.2       |
| 160°-170° | 123.6  | 2.4       |
| 170°-180° | 40.2   | 0.8       |
| 0°-30°    | 593.9  | 11.8      |
| 0°-40°    | 953.4  | 18.9      |
| 0°-60°    | 1627.3 | 32.2      |
| 0°-90°    | 2034.1 | 40.3      |
| 90°-120°  | 1479.8 | 29.3      |
| 90°-150°  | 2639.2 | 52.3      |
| 90°-180°  | 3013.0 | 59.7      |
| 0°-180°   | 5047.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 792 | 792   | 792 | 792   | 792  |      |
| 5°   | 791 | 788   | 782 | 788   | 787  | 75   |
| 15°  | 753 | 750   | 741 | 744   | 743  | 212  |
| 25°  | 682 | 677   | 669 | 669   | 667  | 314  |
| 35°  | 587 | 582   | 574 | 569   | 566  | 367  |
| 45°  | 479 | 474   | 464 | 458   | 456  | 369  |
| 55°  | 362 | 360   | 352 | 344   | 340  | 324  |
| 65°  | 246 | 242   | 236 | 230   | 226  | 243  |
| 75°  | 131 | 128   | 124 | 122   | 121  | 139  |
| 85°  | 34  | 34    | 33  | 33    | 32   | 38   |
| 90°  | 1   | 6     | 15  | 16    | 17   | 3    |
| 95°  | 27  | 85    | 663 | 328   | 199  | 30   |
| 105° | 95  | 138   | 534 | 1150  | 1145 | 102  |
| 115° | 168 | 210   | 476 | 915   | 1100 | 166  |
| 125° | 234 | 278   | 474 | 778   | 877  | 208  |
| 135° | 278 | 330   | 470 | 691   | 785  | 214  |
| 145° | 320 | 366   | 467 | 583   | 641  | 201  |
| 155° | 364 | 393   | 454 | 514   | 536  | 168  |
| 165° | 396 | 409   | 436 | 461   | 468  | 112  |
| 175° | 413 | 414   | 418 | 423   | 422  | 39   |
| 180° | 414 | 414   | 414 | 414   | 414  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 791.7 | 791.7 | 791.7 | 791.7 | 791.7 | 791.7 | 791.7 | 791.7 | 791.7 | 791.7 | 791.7 |
| 2.5°   | 793.8 | 793.4 | 793.1 | 792.8 | 792.5 | 791.7 | 790.4 | 789.2 | 787.9 | 786.7 | 787.8 |
| 5°     | 791.2 | 790.6 | 790.0 | 789.5 | 788.9 | 787.8 | 786.3 | 784.7 | 783.2 | 781.6 | 783.2 |
| 7.5°   | 783.7 | 783.2 | 782.7 | 782.1 | 781.5 | 780.4 | 778.7 | 777.0 | 775.2 | 773.5 | 774.8 |
| 10°    | 777.1 | 776.7 | 776.1 | 775.5 | 774.9 | 773.7 | 771.9 | 770.1 | 768.3 | 766.4 | 767.5 |
| 12.5°  | 768.6 | 768.0 | 767.4 | 766.9 | 766.3 | 765.1 | 763.1 | 761.2 | 759.2 | 757.2 | 758.5 |
| 15°    | 753.1 | 752.5 | 752.0 | 751.4 | 750.8 | 749.5 | 747.4 | 745.3 | 743.1 | 741.0 | 741.8 |
| 17.5°  | 734.4 | 733.7 | 733.0 | 732.3 | 731.6 | 730.3 | 728.2 | 726.3 | 724.2 | 722.3 | 722.8 |
| 20°    | 720.7 | 720.0 | 719.3 | 718.6 | 717.9 | 716.5 | 714.4 | 712.2 | 710.1 | 708.0 | 708.4 |
| 22.5°  | 706.0 | 705.1 | 704.2 | 703.2 | 702.3 | 700.7 | 698.6 | 696.5 | 694.4 | 692.3 | 693.1 |
| 25°    | 682.0 | 681.0 | 680.0 | 679.1 | 678.1 | 676.6 | 674.6 | 672.6 | 670.7 | 668.7 | 668.9 |
| 27.5°  | 654.6 | 653.6 | 652.6 | 651.6 | 650.5 | 649.1 | 647.3 | 645.5 | 643.6 | 641.8 | 641.5 |
| 30°    | 636.3 | 635.2 | 634.1 | 632.9 | 631.9 | 630.3 | 628.5 | 626.6 | 624.8 | 623.1 | 622.5 |
| 32.5°  | 617.0 | 616.0 | 615.0 | 614.0 | 613.0 | 611.5 | 609.6 | 607.6 | 605.7 | 603.7 | 603.1 |
| 35°    | 586.9 | 585.9 | 584.9 | 583.9 | 582.9 | 581.4 | 579.4 | 577.5 | 575.5 | 573.6 | 572.5 |
| 37.5°  | 555.0 | 554.1 | 553.2 | 552.3 | 551.4 | 549.9 | 547.8 | 545.7 | 543.6 | 541.4 | 540.4 |
| 40°    | 534.2 | 533.0 | 531.9 | 530.8 | 529.7 | 528.1 | 525.9 | 523.8 | 521.7 | 519.6 | 518.2 |
| 42.5°  | 511.8 | 511.2 | 510.5 | 509.8 | 509.2 | 507.6 | 505.3 | 503.0 | 500.6 | 498.3 | 496.7 |
| 45°    | 479.0 | 478.0 | 477.0 | 476.1 | 475.1 | 473.4 | 471.2 | 468.9 | 466.7 | 464.4 | 462.8 |
| 47.5°  | 444.6 | 443.9 | 443.3 | 442.5 | 441.9 | 440.5 | 438.5 | 436.3 | 434.2 | 432.2 | 430.4 |
| 50°    | 421.3 | 420.7 | 420.1 | 419.6 | 419.0 | 417.8 | 415.8 | 413.8 | 411.8 | 409.9 | 407.9 |
| 52.5°  | 398.4 | 397.8 | 397.1 | 396.4 | 395.7 | 394.4 | 392.2 | 390.2 | 388.1 | 386.0 | 384.3 |
| 55°    | 362.2 | 361.8 | 361.4 | 361.0 | 360.6 | 359.4 | 357.4 | 355.4 | 353.4 | 351.5 | 349.8 |
| 57.5°  | 327.8 | 327.3 | 326.8 | 326.3 | 325.8 | 324.7 | 322.7 | 320.7 | 318.8 | 316.8 | 315.2 |
| 60°    | 303.9 | 303.2 | 302.5 | 301.7 | 301.1 | 299.8 | 298.0 | 296.1 | 294.3 | 292.4 | 291.2 |
| 62.5°  | 280.5 | 280.0 | 279.3 | 278.8 | 278.2 | 276.9 | 275.0 | 273.0 | 271.1 | 269.1 | 268.0 |
| 65°    | 245.5 | 244.8 | 244.1 | 243.4 | 242.7 | 241.7 | 240.3 | 238.8 | 237.4 | 236.0 | 234.6 |
| 67.5°  | 210.3 | 209.6 | 209.0 | 208.3 | 207.7 | 206.7 | 205.3 | 204.0 | 202.6 | 201.2 | 199.9 |
| 70°    | 188.4 | 187.4 | 186.5 | 185.5 | 184.5 | 183.4 | 182.3 | 181.2 | 180.0 | 178.9 | 177.8 |
| 72.5°  | 165.1 | 164.1 | 163.1 | 162.1 | 161.1 | 160.2 | 159.3 | 158.4 | 157.5 | 156.5 | 155.6 |
| 75°    | 130.7 | 130.0 | 129.3 | 128.6 | 127.8 | 127.2 | 126.5 | 125.7 | 125.1 | 124.3 | 123.8 |
| 77.5°  | 97.8  | 97.5  | 97.2  | 96.9  | 96.6  | 96.1  | 95.5  | 94.9  | 94.2  | 93.7  | 93.4  |
| 80°    | 78.0  | 77.6  | 77.2  | 76.8  | 76.3  | 76.0  | 75.7  | 75.4  | 75.2  | 74.8  | 74.6  |
| 82.5°  | 58.8  | 58.5  | 58.4  | 58.1  | 58.0  | 57.8  | 57.8  | 57.7  | 57.6  | 57.6  | 57.4  |
| 85°    | 34.2  | 34.2  | 34.2  | 34.2  | 34.2  | 34.1  | 33.8  | 33.6  | 33.3  | 33.0  | 33.0  |
| 87.5°  | 13.4  | 13.5  | 13.9  | 14.0  | 14.0  | 13.9  | 14.8  | 14.7  | 14.9  | 15.1  | 14.9  |
| 90°    | 0.8   | 2.4   | 4.9   | 5.7   | 6.5   | 6.5   | 11.4  | 11.4  | 13.0  | 14.7  | 13.9  |
| 92.5°  | 9.3   | 13.5  | 21.2  | 31.1  | 43.0  | 59.9  | 101.3 | 164.4 | 225.9 | 258.2 | 215.1 |
| 95°    | 26.8  | 29.3  | 37.4  | 48.0  | 67.6  | 101.7 | 172.5 | 306.1 | 500.6 | 663.3 | 682.1 |
| 97.5°  | 48.2  | 48.2  | 55.2  | 65.0  | 81.7  | 110.4 | 164.9 | 275.1 | 468.5 | 698.6 | 856.9 |
| 100°   | 61.9  | 61.9  | 67.6  | 77.3  | 92.8  | 118.9 | 166.9 | 258.9 | 424.9 | 654.4 | 862.7 |
| 102.5° | 74.8  | 76.1  | 81.2  | 90.3  | 105.2 | 129.9 | 173.3 | 254.3 | 395.6 | 599.1 | 813.9 |
| 105°   | 95.2  | 97.7  | 101.7 | 111.5 | 126.1 | 149.8 | 188.8 | 256.4 | 370.3 | 533.9 | 725.2 |
| 107.5° | 117.7 | 119.4 | 123.4 | 133.8 | 147.8 | 171.0 | 206.9 | 268.4 | 365.7 | 497.5 | 653.5 |
| 110°   | 132.6 | 134.3 | 138.4 | 148.1 | 162.8 | 184.7 | 220.5 | 277.5 | 367.0 | 485.1 | 617.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 147.0 | 148.6 | 153.4 | 162.5 | 177.1 | 199.1 | 233.6 | 287.3 | 371.0 | 479.2 | 597.6 |
| 115°   | 167.7 | 170.1 | 175.8 | 183.9 | 199.4 | 221.4 | 254.0 | 302.8 | 378.5 | 476.1 | 578.7 |
| 117.5° | 189.1 | 191.4 | 196.5 | 205.5 | 219.9 | 242.7 | 273.6 | 318.5 | 386.5 | 475.3 | 570.2 |
| 120°   | 203.5 | 205.1 | 210.8 | 219.7 | 233.6 | 256.4 | 287.3 | 329.6 | 392.3 | 475.3 | 565.7 |
| 122.5° | 216.5 | 218.1 | 223.8 | 232.1 | 247.3 | 269.4 | 300.4 | 340.1 | 398.2 | 474.7 | 560.4 |
| 125°   | 233.6 | 236.8 | 241.7 | 250.7 | 266.1 | 288.9 | 318.2 | 355.7 | 407.0 | 473.7 | 551.9 |
| 127.5° | 248.7 | 251.4 | 257.2 | 267.4 | 283.6 | 306.6 | 334.8 | 369.2 | 413.9 | 471.9 | 540.3 |
| 130°   | 257.2 | 260.5 | 266.9 | 279.2 | 294.6 | 318.2 | 345.9 | 377.6 | 419.1 | 471.2 | 533.1 |
| 132.5° | 265.6 | 268.2 | 276.7 | 288.3 | 305.1 | 327.3 | 355.1 | 386.1 | 423.7 | 470.6 | 526.6 |
| 135°   | 277.5 | 280.8 | 288.9 | 302.8 | 319.8 | 341.0 | 367.9 | 397.2 | 430.6 | 469.6 | 516.8 |
| 137.5° | 289.4 | 292.5 | 301.5 | 314.6 | 332.4 | 352.6 | 377.6 | 405.0 | 434.6 | 469.4 | 508.3 |
| 140°   | 297.9 | 300.4 | 309.3 | 323.1 | 340.2 | 359.8 | 384.2 | 410.2 | 437.9 | 468.8 | 503.9 |
| 142.5° | 307.0 | 309.5 | 317.7 | 330.9 | 347.4 | 366.2 | 390.0 | 414.1 | 440.5 | 468.8 | 499.9 |
| 145°   | 319.8 | 322.3 | 330.4 | 341.9 | 357.3 | 375.2 | 396.4 | 418.3 | 442.0 | 467.2 | 493.3 |
| 147.5° | 334.4 | 335.2 | 342.3 | 354.1 | 366.9 | 383.0 | 402.9 | 422.1 | 442.8 | 464.2 | 487.2 |
| 150°   | 343.5 | 344.3 | 350.8 | 360.6 | 372.8 | 388.2 | 406.2 | 424.0 | 442.8 | 462.3 | 482.7 |
| 152.5° | 352.0 | 352.1 | 358.7 | 367.7 | 378.6 | 392.8 | 408.8 | 425.3 | 441.5 | 459.0 | 477.4 |
| 155°   | 363.8 | 364.6 | 369.5 | 377.6 | 386.6 | 398.8 | 412.6 | 426.5 | 439.5 | 454.2 | 469.6 |
| 157.5° | 375.4 | 375.4 | 379.9 | 386.3 | 394.1 | 403.7 | 415.4 | 426.5 | 437.4 | 449.1 | 461.6 |
| 160°   | 382.5 | 382.5 | 385.8 | 391.5 | 398.0 | 407.0 | 416.7 | 426.5 | 435.5 | 445.2 | 455.8 |
| 162.5° | 389.1 | 388.4 | 391.0 | 396.1 | 401.9 | 409.0 | 418.0 | 426.5 | 433.5 | 441.3 | 450.6 |
| 165°   | 396.4 | 396.4 | 398.0 | 402.1 | 406.2 | 411.0 | 418.3 | 424.9 | 429.7 | 435.5 | 442.0 |
| 167.5° | 403.7 | 402.9 | 403.7 | 406.8 | 409.1 | 412.8 | 418.2 | 422.9 | 425.8 | 429.6 | 434.1 |
| 170°   | 407.0 | 406.2 | 407.0 | 409.4 | 411.0 | 413.4 | 417.5 | 421.6 | 423.2 | 425.7 | 428.9 |
| 172.5° | 410.2 | 409.4 | 409.5 | 411.3 | 412.3 | 414.1 | 416.9 | 420.3 | 420.6 | 421.8 | 424.4 |
| 175°   | 413.4 | 412.6 | 412.6 | 413.4 | 414.3 | 414.3 | 415.9 | 418.3 | 417.5 | 417.5 | 419.1 |
| 177.5° | 414.9 | 414.3 | 413.6 | 414.3 | 414.3 | 414.3 | 414.9 | 416.2 | 414.9 | 414.9 | 415.6 |
| 180°   | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 791.7 | 791.7  | 791.7  | 791.7  | 791.7  | 791.7  | 791.7  | 791.7  |
| 2.5°   | 789.0 | 790.1  | 791.2  | 791.7  | 791.6  | 791.5  | 791.4  | 791.2  |
| 5°     | 784.7 | 786.3  | 787.8  | 788.5  | 788.1  | 787.9  | 787.6  | 787.3  |
| 7.5°   | 776.0 | 777.2  | 778.4  | 779.0  | 778.9  | 778.7  | 778.5  | 778.3  |
| 10°    | 768.7 | 769.8  | 770.9  | 771.4  | 771.0  | 770.8  | 770.5  | 770.2  |
| 12.5°  | 759.8 | 761.0  | 762.2  | 762.6  | 762.2  | 761.8  | 761.5  | 761.1  |
| 15°    | 742.7 | 743.6  | 744.4  | 744.6  | 744.2  | 743.8  | 743.3  | 742.9  |
| 17.5°  | 723.3 | 723.8  | 724.4  | 724.5  | 724.2  | 723.9  | 723.7  | 723.4  |
| 20°    | 708.9 | 709.3  | 709.7  | 709.8  | 709.5  | 709.2  | 709.0  | 708.7  |
| 22.5°  | 693.8 | 694.6  | 695.4  | 695.5  | 695.0  | 694.5  | 694.0  | 693.4  |
| 25°    | 669.0 | 669.1  | 669.3  | 669.0  | 668.5  | 667.9  | 667.3  | 666.8  |
| 27.5°  | 641.2 | 640.7  | 640.4  | 639.9  | 639.2  | 638.5  | 637.8  | 637.1  |
| 30°    | 621.9 | 621.3  | 620.8  | 620.1  | 619.4  | 618.7  | 618.0  | 617.3  |
| 32.5°  | 602.3 | 601.7  | 601.0  | 600.3  | 599.7  | 598.9  | 598.2  | 597.5  |
| 35°    | 571.5 | 570.5  | 569.6  | 568.8  | 568.0  | 567.3  | 566.6  | 565.9  |
| 37.5°  | 539.3 | 538.2  | 537.1  | 536.1  | 535.2  | 534.3  | 533.4  | 532.4  |
| 40°    | 516.8 | 515.4  | 514.0  | 512.9  | 512.2  | 511.5  | 510.8  | 510.1  |
| 42.5°  | 495.0 | 493.3  | 491.7  | 490.6  | 490.2  | 489.8  | 489.3  | 488.8  |
| 45°    | 461.3 | 459.7  | 458.2  | 457.2  | 456.8  | 456.4  | 455.9  | 455.5  |
| 47.5°  | 428.7 | 426.9  | 425.2  | 423.8  | 422.7  | 421.6  | 420.5  | 419.5  |
| 50°    | 405.9 | 403.9  | 401.9  | 400.6  | 399.7  | 398.8  | 398.0  | 397.1  |
| 52.5°  | 382.5 | 380.7  | 379.0  | 377.6  | 376.5  | 375.4  | 374.4  | 373.3  |
| 55°    | 348.1 | 346.4  | 344.7  | 343.4  | 342.6  | 341.8  | 340.9  | 340.1  |
| 57.5°  | 313.6 | 312.0  | 310.4  | 309.2  | 308.3  | 307.5  | 306.7  | 305.9  |
| 60°    | 289.9 | 288.7  | 287.4  | 286.4  | 285.7  | 285.0  | 284.3  | 283.6  |
| 62.5°  | 266.8 | 265.6  | 264.5  | 263.6  | 262.9  | 262.2  | 261.5  | 260.7  |
| 65°    | 233.2 | 231.8  | 230.4  | 229.3  | 228.6  | 227.9  | 227.2  | 226.5  |
| 67.5°  | 198.5 | 197.2  | 195.8  | 195.0  | 194.9  | 194.7  | 194.4  | 194.3  |
| 70°    | 176.7 | 175.5  | 174.4  | 173.7  | 173.2  | 172.8  | 172.4  | 171.9  |
| 72.5°  | 154.7 | 153.8  | 153.0  | 152.3  | 151.9  | 151.5  | 151.1  | 150.6  |
| 75°    | 123.2 | 122.6  | 122.1  | 121.7  | 121.6  | 121.5  | 121.3  | 121.2  |
| 77.5°  | 93.3  | 93.1   | 92.9   | 92.7   | 92.3   | 92.0   | 91.6   | 91.2   |
| 80°    | 74.3  | 74.0   | 73.7   | 73.5   | 73.4   | 73.2   | 73.1   | 73.0   |
| 82.5°  | 57.2  | 57.1   | 56.9   | 56.7   | 56.7   | 56.5   | 56.3   | 56.2   |
| 85°    | 33.0  | 33.0   | 33.0   | 32.9   | 32.8   | 32.6   | 32.5   | 32.4   |
| 87.5°  | 15.1  | 15.2   | 15.4   | 15.4   | 15.6   | 15.7   | 15.6   | 15.6   |
| 90°    | 14.7  | 15.5   | 16.3   | 16.3   | 17.1   | 17.9   | 17.1   | 17.1   |
| 92.5°  | 159.9 | 120.3  | 95.7   | 79.4   | 69.9   | 65.5   | 62.7   | 62.7   |
| 95°    | 603.1 | 477.0  | 367.9  | 288.9  | 249.1  | 223.8  | 209.2  | 198.6  |
| 97.5°  | 891.1 | 844.2  | 764.6  | 679.6  | 621.2  | 572.2  | 547.8  | 530.8  |
| 100°   | 981.6 | 997.8  | 958.0  | 897.7  | 827.0  | 777.3  | 752.8  | 746.4  |
| 102.5° | 977.1 | 1057.8 | 1069.3 | 1044.2 | 1000.8 | 964.8  | 939.1  | 933.9  |
| 105°   | 911.6 | 1052.4 | 1132.9 | 1166.4 | 1168.0 | 1161.5 | 1150.1 | 1145.2 |
| 107.5° | 818.6 | 968.6  | 1082.1 | 1154.6 | 1194.8 | 1213.4 | 1221.6 | 1223.7 |
| 110°   | 762.6 | 903.4  | 1021.5 | 1111.0 | 1168.8 | 1203.0 | 1217.6 | 1225.0 |





TEST NUMBER: P332570-930

CATALOG NUMBER: SA4XXDIP-C575D1035U930-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 721.6 | 846.1 | 957.7 | 1047.2 | 1112.8 | 1154.1 | 1174.7 | 1186.5 |
| 115°   | 680.4 | 780.6 | 875.8 | 953.9  | 1018.2 | 1067.1 | 1093.1 | 1099.6 |
| 117.5° | 660.2 | 743.1 | 818.0 | 884.3  | 939.1  | 980.2  | 1006.5 | 1011.5 |
| 120°   | 651.1 | 726.8 | 792.0 | 849.7  | 896.1  | 932.0  | 953.1  | 962.1  |
| 122.5° | 643.4 | 716.4 | 775.7 | 826.3  | 865.5  | 896.1  | 914.0  | 923.0  |
| 125°   | 630.0 | 699.9 | 756.1 | 800.9  | 833.5  | 857.0  | 872.5  | 877.4  |
| 127.5° | 613.7 | 680.6 | 736.6 | 779.1  | 811.8  | 832.8  | 845.8  | 850.7  |
| 130°   | 600.7 | 665.0 | 720.3 | 763.4  | 796.8  | 817.2  | 830.2  | 835.1  |
| 132.5° | 587.0 | 647.4 | 701.4 | 744.6  | 777.3  | 800.2  | 812.6  | 817.5  |
| 135°   | 568.1 | 621.0 | 670.7 | 711.3  | 744.0  | 766.7  | 779.8  | 784.6  |
| 137.5° | 551.1 | 595.8 | 637.6 | 674.4  | 704.8  | 727.3  | 738.1  | 744.0  |
| 140°   | 541.3 | 579.5 | 616.1 | 650.3  | 678.8  | 696.8  | 708.1  | 714.6  |
| 142.5° | 532.1 | 565.8 | 597.3 | 626.9  | 652.1  | 668.7  | 678.8  | 683.4  |
| 145°   | 519.3 | 547.0 | 571.4 | 594.2  | 614.5  | 628.4  | 636.5  | 640.6  |
| 147.5° | 508.7 | 530.7 | 550.2 | 568.1  | 583.1  | 595.0  | 601.2  | 602.6  |
| 150°   | 502.2 | 520.9 | 537.2 | 551.9  | 564.8  | 575.4  | 580.3  | 581.1  |
| 152.5° | 495.0 | 511.1 | 526.1 | 538.2  | 549.3  | 557.8  | 560.8  | 561.6  |
| 155°   | 484.3 | 497.3 | 509.5 | 519.3  | 527.4  | 533.9  | 536.4  | 536.4  |
| 157.5° | 472.7 | 483.6 | 493.9 | 501.7  | 507.8  | 512.7  | 514.2  | 514.2  |
| 160°   | 465.5 | 474.5 | 483.5 | 490.0  | 494.9  | 499.8  | 500.6  | 500.6  |
| 162.5° | 458.4 | 466.0 | 473.0 | 478.9  | 482.5  | 487.4  | 488.2  | 487.5  |
| 165°   | 448.5 | 453.4 | 459.0 | 463.1  | 466.4  | 469.6  | 468.8  | 468.0  |
| 167.5° | 438.9 | 442.6 | 447.2 | 449.6  | 451.3  | 453.4  | 453.2  | 452.6  |
| 170°   | 433.0 | 435.5 | 438.7 | 441.2  | 442.8  | 443.6  | 442.8  | 442.8  |
| 172.5° | 427.8 | 429.6 | 431.5 | 433.3  | 434.3  | 435.1  | 434.3  | 433.0  |
| 175°   | 420.8 | 421.6 | 423.2 | 423.2  | 423.2  | 424.9  | 423.2  | 421.6  |
| 177.5° | 416.2 | 416.9 | 416.9 | 417.5  | 416.9  | 417.5  | 416.2  | 414.9  |
| 180°   | 414.3 | 414.3 | 414.3 | 414.3  | 414.3  | 414.3  | 414.3  | 414.3  |

(END OF REPORT)