

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: P332910-935

Luminaire Tested: **SA4XXRDIP-C575D810U935-4F0-1E-UDD-F**

Issue Date: 10/7/2019

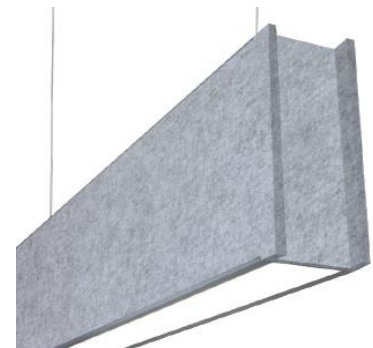
**Test Information**

Test Method: LM-79-08  
Report Number: P332910-935  
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: SA4XXRDIP-C575D810U935-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 810 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4808.5 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: General Diffuse

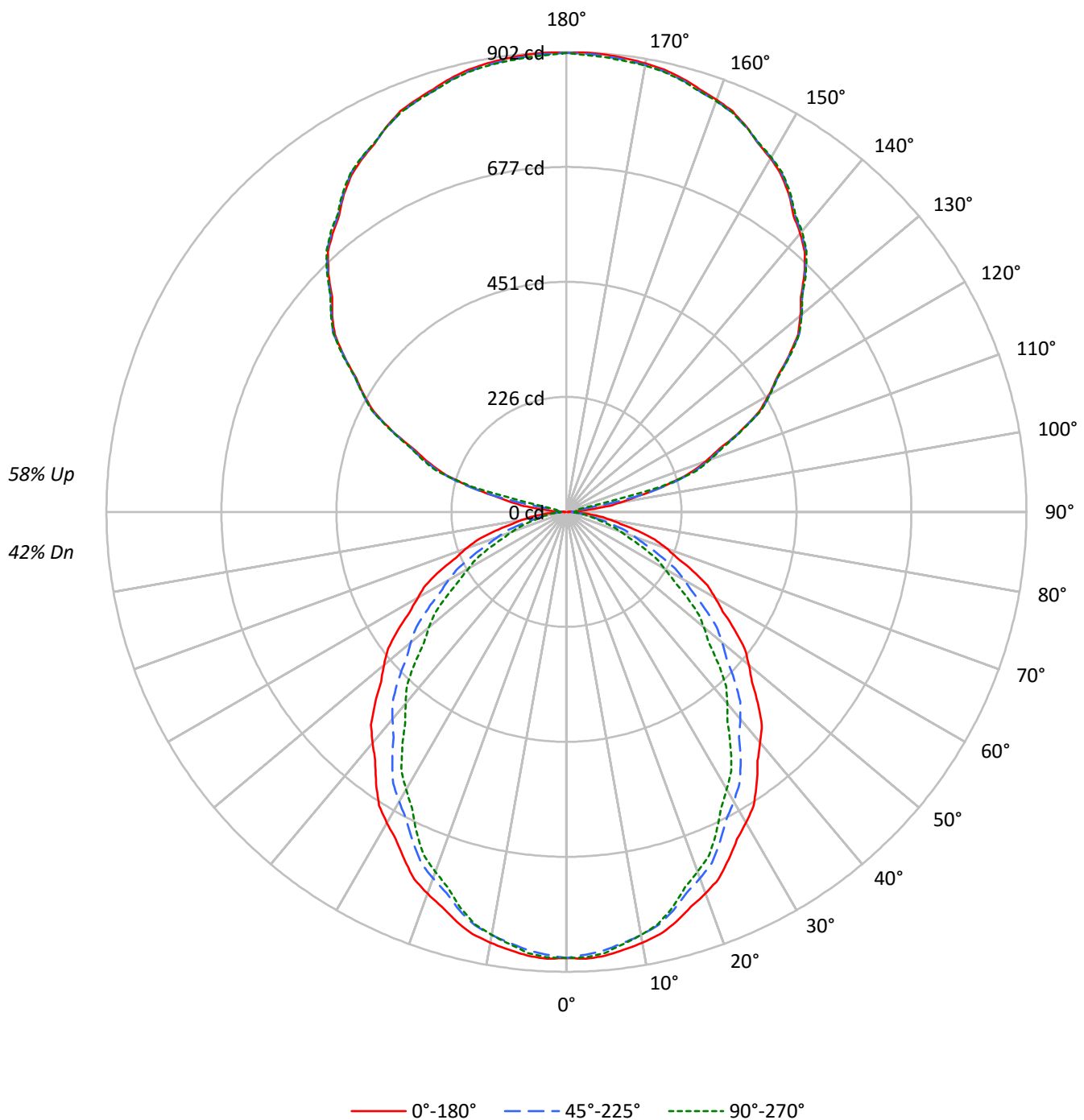
Input Watts (W): 38.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332910-935

CATALOG NUMBER: SA4XXRDIP-C575D810U935-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P332910-935

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 63 | 63 | 63 | 49 | 49 | 49 |
| 1   | 96  | 92  | 88  | 85  | 88 | 84 | 81 | 78 | 69 | 67 | 65 | 56 | 54 | 53 | 44 | 43 | 42 |
| 2   | 88  | 81  | 75  | 70  | 80 | 74 | 69 | 64 | 61 | 57 | 54 | 49 | 47 | 45 | 39 | 37 | 35 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 44 | 41 | 38 | 34 | 32 | 30 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 39 | 36 | 33 | 31 | 28 | 26 |
| 5   | 67  | 56  | 48  | 42  | 61 | 52 | 45 | 40 | 43 | 38 | 34 | 35 | 31 | 28 | 28 | 25 | 23 |
| 6   | 62  | 50  | 42  | 37  | 57 | 46 | 39 | 34 | 39 | 34 | 30 | 32 | 28 | 25 | 25 | 23 | 20 |
| 7   | 57  | 45  | 38  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 18 |
| 8   | 53  | 41  | 34  | 28  | 49 | 38 | 31 | 27 | 32 | 27 | 23 | 27 | 23 | 20 | 21 | 18 | 16 |
| 9   | 50  | 38  | 30  | 25  | 45 | 35 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 20 | 17 | 15 |
| 10  | 46  | 35  | 27  | 23  | 42 | 32 | 26 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 18 | 15 | 13 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7064 | 7064 | 7064 |
| 5°  | 7080 | 6994 | 7037 |
| 10° | 7035 | 6909 | 6909 |
| 15° | 6955 | 6764 | 6714 |
| 20° | 6844 | 6574 | 6453 |
| 25° | 6702 | 6350 | 6188 |
| 30° | 6564 | 6114 | 5858 |
| 35° | 6412 | 5870 | 5527 |
| 40° | 6227 | 5592 | 5168 |
| 45° | 6058 | 5316 | 4804 |
| 50° | 5865 | 4999 | 4417 |
| 55° | 5658 | 4669 | 3997 |
| 60° | 5430 | 4306 | 3570 |
| 65° | 5223 | 3851 | 3148 |
| 70° | 4919 | 3354 | 2672 |
| 75° | 4535 | 2779 | 2174 |
| 80° | 3956 | 2115 | 1994 |
| 85° | 3353 | 1927 | 1806 |

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 82.2   | 1.7       |
| 10°-20°   | 229.2  | 4.8       |
| 20°-30°   | 331.0  | 6.9       |
| 30°-40°   | 375.2  | 7.8       |
| 40°-50°   | 362.3  | 7.5       |
| 50°-60°   | 301.3  | 6.3       |
| 60°-70°   | 208.0  | 4.3       |
| 70°-80°   | 105.4  | 2.2       |
| 80°-90°   | 29.7   | 0.6       |
| 90°-100°  | 30.8   | 0.6       |
| 100°-110° | 196.3  | 4.1       |
| 110°-120° | 375.5  | 7.8       |
| 120°-130° | 476.7  | 9.9       |
| 130°-140° | 510.0  | 10.6      |
| 140°-150° | 476.9  | 9.9       |
| 150°-160° | 384.6  | 8.0       |
| 160°-170° | 248.0  | 5.2       |
| 170°-180° | 85.5   | 1.8       |
| 0°-30°    | 642.4  | 13.4      |
| 0°-40°    | 1017.6 | 21.2      |
| 0°-60°    | 1681.1 | 35.0      |
| 0°-90°    | 2024.2 | 42.1      |
| 90°-120°  | 602.6  | 12.5      |
| 90°-150°  | 2066.1 | 43.0      |
| 90°-180°  | 2784.0 | 57.9      |
| 0°-180°   | 4808.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 875 | 875   | 875 | 875   | 875 |      |
| 5°   | 874 | 871   | 863 | 869   | 868 | 83   |
| 15°  | 832 | 825   | 809 | 808   | 803 | 234  |
| 25°  | 752 | 740   | 713 | 702   | 695 | 347  |
| 35°  | 651 | 628   | 596 | 573   | 561 | 406  |
| 45°  | 531 | 505   | 466 | 434   | 421 | 409  |
| 55°  | 402 | 374   | 332 | 298   | 284 | 359  |
| 65°  | 273 | 244   | 202 | 174   | 165 | 270  |
| 75°  | 145 | 120   | 89  | 74    | 70  | 154  |
| 85°  | 36  | 23    | 21  | 20    | 20  | 41   |
| 90°  | 2   | 9     | 15  | 19    | 20  | 3    |
| 95°  | 37  | 15    | 15  | 19    | 20  | 48   |
| 105° | 203 | 207   | 210 | 214   | 192 | 212  |
| 115° | 378 | 380   | 380 | 381   | 381 | 372  |
| 125° | 532 | 534   | 533 | 535   | 536 | 475  |
| 135° | 660 | 659   | 662 | 663   | 664 | 508  |
| 145° | 761 | 763   | 763 | 763   | 765 | 475  |
| 155° | 834 | 835   | 833 | 835   | 833 | 384  |
| 165° | 880 | 877   | 876 | 881   | 876 | 249  |
| 175° | 900 | 896   | 897 | 902   | 895 | 86   |
| 180° | 900 | 900   | 900 | 900   | 900 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 |
| 2.5°   | 877.2 | 876.7 | 876.2 | 875.7 | 875.3 | 874.3 | 873.1 | 871.8 | 870.4 | 869.1 | 870.4 |
| 5°     | 873.7 | 873.1 | 872.5 | 871.8 | 871.3 | 870.1 | 868.3 | 866.5 | 864.7 | 863.0 | 864.4 |
| 7.5°   | 865.7 | 865.1 | 864.5 | 863.9 | 863.2 | 861.8 | 859.5 | 857.1 | 854.8 | 852.5 | 853.4 |
| 10°    | 858.2 | 857.6 | 856.8 | 856.0 | 855.3 | 853.6 | 850.9 | 848.2 | 845.5 | 842.8 | 843.4 |
| 12.5°  | 848.6 | 847.7 | 846.9 | 846.0 | 845.2 | 843.2 | 840.0 | 836.8 | 833.7 | 830.5 | 830.9 |
| 15°    | 832.2 | 830.8 | 829.5 | 828.1 | 826.7 | 824.2 | 820.5 | 816.8 | 813.0 | 809.3 | 809.1 |
| 17.5°  | 812.2 | 810.2 | 808.3 | 806.3 | 804.4 | 801.2 | 796.8 | 792.3 | 787.8 | 783.3 | 782.6 |
| 20°    | 796.6 | 794.7 | 792.7 | 790.8 | 788.8 | 785.4 | 780.3 | 775.2 | 770.2 | 765.2 | 764.0 |
| 22.5°  | 779.5 | 777.3 | 775.2 | 772.9 | 770.8 | 767.0 | 761.6 | 756.1 | 750.7 | 745.3 | 743.5 |
| 25°    | 752.4 | 749.8 | 747.0 | 744.3 | 741.7 | 737.3 | 731.2 | 725.0 | 718.9 | 712.9 | 710.3 |
| 27.5°  | 724.0 | 720.7 | 717.3 | 713.9 | 710.5 | 705.6 | 699.0 | 692.6 | 686.0 | 679.5 | 676.4 |
| 30°    | 704.1 | 700.4 | 696.7 | 693.0 | 689.3 | 683.9 | 676.9 | 669.9 | 662.9 | 655.9 | 652.2 |
| 32.5°  | 683.3 | 679.1 | 674.9 | 670.6 | 666.5 | 660.7 | 653.5 | 646.3 | 639.0 | 631.8 | 627.5 |
| 35°    | 650.6 | 645.8 | 641.0 | 636.3 | 631.5 | 625.4 | 617.9 | 610.5 | 603.0 | 595.6 | 590.6 |
| 37.5°  | 615.6 | 610.7 | 605.8 | 600.9 | 595.9 | 589.4 | 581.1 | 572.8 | 564.6 | 556.4 | 550.7 |
| 40°    | 590.9 | 586.0 | 581.1 | 576.2 | 571.3 | 564.6 | 556.1 | 547.6 | 539.2 | 530.6 | 524.3 |
| 42.5°  | 567.3 | 562.2 | 557.1 | 551.9 | 546.7 | 539.8 | 530.9 | 522.0 | 513.2 | 504.4 | 498.0 |
| 45°    | 530.6 | 525.1 | 519.6 | 514.1 | 508.6 | 501.4 | 492.4 | 483.5 | 474.6 | 465.6 | 458.3 |
| 47.5°  | 492.8 | 487.1 | 481.3 | 475.6 | 469.9 | 462.4 | 453.1 | 443.9 | 434.6 | 425.3 | 417.8 |
| 50°    | 467.0 | 461.2 | 455.4 | 449.5 | 443.8 | 436.1 | 426.5 | 417.1 | 407.5 | 398.0 | 390.5 |
| 52.5°  | 440.7 | 435.1 | 429.4 | 423.7 | 417.9 | 410.3 | 400.5 | 390.7 | 380.9 | 371.2 | 363.6 |
| 55°    | 402.0 | 396.1 | 390.1 | 384.1 | 378.2 | 370.3 | 360.7 | 351.0 | 341.3 | 331.7 | 323.9 |
| 57.5°  | 363.7 | 357.5 | 351.3 | 345.1 | 338.9 | 331.1 | 321.5 | 311.9 | 302.5 | 292.9 | 285.1 |
| 60°    | 336.3 | 330.4 | 324.4 | 318.5 | 312.5 | 304.8 | 295.2 | 285.7 | 276.2 | 266.7 | 258.9 |
| 62.5°  | 311.7 | 305.5 | 299.3 | 293.1 | 286.9 | 279.0 | 269.1 | 259.4 | 249.6 | 239.9 | 232.7 |
| 65°    | 273.4 | 267.0 | 260.5 | 254.2 | 247.7 | 239.8 | 230.2 | 220.8 | 211.2 | 201.6 | 195.3 |
| 67.5°  | 233.6 | 227.4 | 221.3 | 215.2 | 209.1 | 201.6 | 192.7 | 183.8 | 175.0 | 166.2 | 160.7 |
| 70°    | 208.4 | 202.1 | 195.9 | 189.6 | 183.4 | 176.0 | 167.5 | 159.0 | 150.5 | 142.1 | 137.2 |
| 72.5°  | 181.6 | 175.9 | 170.2 | 164.6 | 158.9 | 152.1 | 144.1 | 136.1 | 128.0 | 120.0 | 115.9 |
| 75°    | 145.4 | 139.9 | 134.4 | 128.9 | 123.4 | 117.1 | 110.1 | 103.1 | 96.1  | 89.1  | 85.7  |
| 77.5°  | 108.7 | 104.0 | 99.4  | 94.6  | 90.0  | 84.8  | 79.1  | 73.5  | 67.8  | 62.2  | 60.2  |
| 80°    | 85.1  | 80.8  | 76.5  | 72.2  | 67.8  | 63.5  | 59.0  | 54.5  | 50.0  | 45.5  | 45.1  |
| 82.5°  | 64.7  | 60.8  | 56.8  | 52.9  | 48.9  | 45.6  | 43.0  | 40.5  | 38.0  | 35.4  | 35.0  |
| 85°    | 36.2  | 33.2  | 30.2  | 27.2  | 24.3  | 22.6  | 22.1  | 21.7  | 21.2  | 20.8  | 20.5  |
| 87.5°  | 12.7  | 12.1  | 11.5  | 10.8  | 10.2  | 10.0  | 10.1  | 10.2  | 10.3  | 10.5  | 10.5  |
| 90°    | 2.0   | 3.7   | 5.3   | 7.0   | 8.6   | 10.0  | 11.2  | 12.4  | 13.6  | 14.8  | 15.7  |
| 92.5°  | 8.5   | 8.6   | 8.7   | 8.8   | 8.9   | 9.5   | 10.7  | 11.9  | 13.1  | 14.3  | 15.2  |
| 95°    | 37.0  | 31.9  | 26.9  | 21.8  | 16.7  | 14.2  | 14.4  | 14.6  | 14.6  | 14.8  | 15.7  |
| 97.5°  | 78.6  | 81.8  | 85.0  | 88.2  | 91.4  | 84.6  | 67.8  | 51.1  | 34.4  | 17.7  | 17.8  |
| 100°   | 110.4 | 113.1 | 115.8 | 118.5 | 121.1 | 112.2 | 91.5  | 70.9  | 50.3  | 29.6  | 27.0  |
| 102.5° | 145.9 | 147.9 | 149.9 | 151.9 | 153.9 | 153.5 | 150.8 | 148.1 | 145.4 | 142.8 | 115.3 |
| 105°   | 202.6 | 203.5 | 204.4 | 205.3 | 206.2 | 207.1 | 207.8 | 208.5 | 209.3 | 210.0 | 211.4 |
| 107.5° | 255.3 | 255.7 | 256.1 | 256.7 | 257.1 | 257.8 | 258.8 | 259.8 | 260.9 | 261.9 | 262.5 |
| 110°   | 290.8 | 291.3 | 291.7 | 292.1 | 292.7 | 293.3 | 294.2 | 295.1 | 296.0 | 296.9 | 297.2 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 325.3 | 326.1 | 326.9 | 327.7 | 328.6 | 329.2 | 329.6 | 329.9 | 330.4 | 330.8 | 330.8 |
| 115°   | 378.3 | 378.8 | 379.3 | 379.7 | 380.1 | 380.3 | 380.1 | 380.0 | 379.9 | 379.7 | 380.0 |
| 117.5° | 426.1 | 426.7 | 427.3 | 427.9 | 428.5 | 429.0 | 429.3 | 429.6 | 430.0 | 430.3 | 430.2 |
| 120°   | 458.5 | 459.1 | 459.7 | 460.3 | 460.8 | 461.1 | 460.9 | 460.8 | 460.6 | 460.5 | 460.8 |
| 122.5° | 488.6 | 489.0 | 489.3 | 489.7 | 490.1 | 490.3 | 490.5 | 490.8 | 490.9 | 491.2 | 491.4 |
| 125°   | 531.8 | 532.4 | 533.0 | 533.6 | 534.3 | 534.3 | 534.1 | 533.8 | 533.5 | 533.2 | 533.6 |
| 127.5° | 572.7 | 572.9 | 573.1 | 573.3 | 573.3 | 573.8 | 574.5 | 575.1 | 575.8 | 576.5 | 576.4 |
| 130°   | 599.2 | 599.3 | 599.4 | 599.6 | 599.8 | 600.0 | 600.5 | 601.0 | 601.4 | 601.8 | 602.0 |
| 132.5° | 623.4 | 623.6 | 624.0 | 624.2 | 624.5 | 624.9 | 625.4 | 626.0 | 626.5 | 627.2 | 627.3 |
| 135°   | 659.8 | 659.6 | 659.4 | 659.3 | 659.2 | 659.4 | 660.0 | 660.6 | 661.2 | 661.8 | 662.0 |
| 137.5° | 691.9 | 692.0 | 692.1 | 692.1 | 692.2 | 692.5 | 693.2 | 693.9 | 694.5 | 695.2 | 695.5 |
| 140°   | 712.9 | 713.3 | 713.5 | 713.9 | 714.1 | 714.5 | 714.7 | 715.1 | 715.3 | 715.6 | 716.1 |
| 142.5° | 731.8 | 732.3 | 732.9 | 733.4 | 733.9 | 734.3 | 734.4 | 734.7 | 734.9 | 735.0 | 735.4 |
| 145°   | 760.7 | 761.2 | 761.6 | 762.1 | 762.5 | 762.8 | 762.8 | 762.8 | 762.8 | 762.8 | 762.9 |
| 147.5° | 783.8 | 784.6 | 785.4 | 786.3 | 787.1 | 787.5 | 787.3 | 787.1 | 787.0 | 786.9 | 787.0 |
| 150°   | 800.5 | 801.1 | 801.7 | 802.3 | 802.8 | 803.1 | 802.9 | 802.8 | 802.6 | 802.5 | 802.5 |
| 152.5° | 814.4 | 814.9 | 815.4 | 815.9 | 816.4 | 816.5 | 816.2 | 816.0 | 815.6 | 815.4 | 815.6 |
| 155°   | 834.1 | 834.2 | 834.4 | 834.6 | 834.7 | 834.6 | 834.1 | 833.6 | 833.2 | 832.8 | 833.4 |
| 157.5° | 850.7 | 850.6 | 850.5 | 850.4 | 850.3 | 850.0 | 849.5 | 849.0 | 848.5 | 848.0 | 848.8 |
| 160°   | 860.4 | 859.9 | 859.5 | 859.0 | 858.6 | 858.2 | 858.2 | 858.0 | 857.8 | 857.6 | 858.6 |
| 162.5° | 869.0 | 868.4 | 867.8 | 867.3 | 866.7 | 866.3 | 866.2 | 866.1 | 865.9 | 865.7 | 866.7 |
| 165°   | 879.9 | 879.2 | 878.4 | 877.6 | 876.9 | 876.5 | 876.5 | 876.5 | 876.5 | 876.5 | 877.7 |
| 167.5° | 888.5 | 887.7 | 886.9 | 886.1 | 885.4 | 884.9 | 884.8 | 884.8 | 884.7 | 884.6 | 885.9 |
| 170°   | 893.4 | 892.4 | 891.6 | 890.6 | 889.8 | 889.4 | 889.5 | 889.7 | 889.8 | 890.0 | 891.1 |
| 172.5° | 896.6 | 895.7 | 894.8 | 893.9 | 893.0 | 892.6 | 892.8 | 892.9 | 893.0 | 893.2 | 894.4 |
| 175°   | 900.1 | 899.1 | 898.3 | 897.4 | 896.5 | 896.1 | 896.3 | 896.4 | 896.6 | 896.7 | 898.0 |
| 177.5° | 901.7 | 900.9 | 900.0 | 899.1 | 898.4 | 898.0 | 898.3 | 898.5 | 898.8 | 899.0 | 899.9 |
| 180°   | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 |

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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 |
| 2.5°   | 871.8 | 873.1 | 874.3 | 874.9 | 874.9 | 874.7 | 874.6 | 874.5 |
| 5°     | 865.9 | 867.5 | 868.9 | 869.5 | 869.2 | 868.9 | 868.6 | 868.3 |
| 7.5°   | 854.4 | 855.3 | 856.4 | 856.5 | 856.1 | 855.6 | 855.1 | 854.6 |
| 10°    | 844.0 | 844.6 | 845.2 | 845.2 | 844.6 | 844.0 | 843.4 | 842.8 |
| 12.5°  | 831.2 | 831.6 | 832.0 | 831.7 | 830.9 | 830.1 | 829.2 | 828.4 |
| 15°    | 808.7 | 808.5 | 808.1 | 807.5 | 806.4 | 805.4 | 804.3 | 803.3 |
| 17.5°  | 781.7 | 780.8 | 780.0 | 778.8 | 777.2 | 775.7 | 774.0 | 772.5 |
| 20°    | 762.8 | 761.6 | 760.3 | 758.8 | 756.9 | 754.9 | 753.0 | 751.1 |
| 22.5°  | 741.8 | 739.9 | 738.1 | 736.5 | 734.9 | 733.3 | 731.8 | 730.1 |
| 25°    | 707.8 | 705.2 | 702.7 | 700.8 | 699.2 | 697.8 | 696.3 | 694.7 |
| 27.5°  | 673.2 | 670.1 | 667.0 | 664.3 | 662.2 | 660.0 | 658.0 | 655.8 |
| 30°    | 648.5 | 644.7 | 641.0 | 638.0 | 635.6 | 633.2 | 630.9 | 628.4 |
| 32.5°  | 623.2 | 618.9 | 614.5 | 611.2 | 609.0 | 606.7 | 604.4 | 602.2 |
| 35°    | 585.5 | 580.4 | 575.4 | 571.5 | 568.9 | 566.1 | 563.4 | 560.8 |
| 37.5°  | 545.0 | 539.4 | 533.7 | 529.6 | 526.8 | 524.2 | 521.5 | 518.8 |
| 40°    | 518.1 | 511.9 | 505.6 | 501.2 | 498.4 | 495.8 | 493.1 | 490.4 |
| 42.5°  | 491.6 | 485.3 | 478.9 | 474.3 | 471.5 | 468.7 | 465.9 | 463.1 |
| 45°    | 451.1 | 443.8 | 436.4 | 431.4 | 428.8 | 426.1 | 423.4 | 420.8 |
| 47.5°  | 410.2 | 402.6 | 395.0 | 389.8 | 386.8 | 383.9 | 381.0 | 378.0 |
| 50°    | 383.1 | 375.7 | 368.2 | 363.1 | 360.2 | 357.4 | 354.6 | 351.7 |
| 52.5°  | 356.0 | 348.4 | 341.0 | 335.7 | 332.7 | 329.8 | 326.8 | 323.9 |
| 55°    | 316.2 | 308.4 | 300.7 | 295.4 | 292.6 | 289.7 | 286.9 | 284.0 |
| 57.5°  | 277.2 | 269.3 | 261.5 | 256.5 | 254.3 | 252.2 | 250.0 | 247.9 |
| 60°    | 251.2 | 243.4 | 235.7 | 230.7 | 228.3 | 225.8 | 223.5 | 221.1 |
| 62.5°  | 225.6 | 218.4 | 211.3 | 206.7 | 204.8 | 202.9 | 201.0 | 199.1 |
| 65°    | 188.9 | 182.4 | 176.1 | 171.9 | 170.2 | 168.4 | 166.6 | 164.8 |
| 67.5°  | 155.2 | 149.6 | 144.1 | 140.4 | 138.4 | 136.5 | 134.5 | 132.5 |
| 70°    | 132.2 | 127.3 | 122.3 | 119.2 | 117.7 | 116.2 | 114.7 | 113.2 |
| 72.5°  | 111.7 | 107.5 | 103.2 | 100.5 | 99.1  | 97.7  | 96.3  | 95.0  |
| 75°    | 82.2  | 78.9  | 75.4  | 73.3  | 72.3  | 71.5  | 70.6  | 69.7  |
| 77.5°  | 58.2  | 56.2  | 54.2  | 53.0  | 52.8  | 52.5  | 52.3  | 52.0  |
| 80°    | 44.7  | 44.3  | 43.7  | 43.5  | 43.3  | 43.1  | 43.0  | 42.9  |
| 82.5°  | 34.7  | 34.4  | 34.1  | 33.8  | 33.7  | 33.5  | 33.4  | 33.2  |
| 85°    | 20.1  | 19.9  | 19.5  | 19.5  | 19.5  | 19.5  | 19.5  | 19.5  |
| 87.5°  | 10.6  | 10.7  | 10.7  | 10.8  | 11.0  | 11.2  | 11.4  | 11.5  |
| 90°    | 16.6  | 17.5  | 18.4  | 19.0  | 19.3  | 19.6  | 19.9  | 20.2  |
| 92.5°  | 16.1  | 17.0  | 17.8  | 18.3  | 18.4  | 18.4  | 18.5  | 18.6  |
| 95°    | 16.6  | 17.5  | 18.4  | 18.9  | 19.1  | 19.2  | 19.4  | 19.5  |
| 97.5°  | 18.0  | 18.1  | 18.2  | 18.3  | 18.4  | 18.5  | 18.7  | 18.9  |
| 100°   | 24.5  | 22.0  | 19.5  | 18.3  | 18.4  | 18.5  | 18.7  | 18.9  |
| 102.5° | 87.8  | 60.4  | 33.0  | 19.3  | 19.3  | 19.3  | 19.4  | 19.4  |
| 105°   | 212.8 | 214.0 | 215.4 | 213.4 | 208.0 | 202.6 | 197.3 | 191.8 |
| 107.5° | 263.2 | 263.8 | 264.5 | 265.1 | 265.7 | 266.2 | 266.8 | 267.4 |
| 110°   | 297.5 | 297.8 | 298.1 | 298.4 | 298.9 | 299.4 | 299.8 | 300.2 |



TEST NUMBER: P332910-935

CATALOG NUMBER: SA4XXRDIP-C575D810U935-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 330.7 | 330.6 | 330.5 | 330.8 | 331.4 | 332.0 | 332.5 | 333.1 |
| 115°   | 380.3 | 380.6 | 380.9 | 381.1 | 381.1 | 381.1 | 381.1 | 381.1 |
| 117.5° | 430.2 | 430.2 | 430.1 | 430.0 | 430.0 | 429.9 | 429.8 | 429.8 |
| 120°   | 461.1 | 461.4 | 461.7 | 461.7 | 461.4 | 461.1 | 460.8 | 460.5 |
| 122.5° | 491.5 | 491.7 | 491.9 | 491.8 | 491.5 | 491.2 | 490.9 | 490.6 |
| 125°   | 534.1 | 534.5 | 534.9 | 535.3 | 535.5 | 535.5 | 535.7 | 535.9 |
| 127.5° | 576.4 | 576.3 | 576.2 | 576.1 | 575.9 | 575.8 | 575.8 | 575.6 |
| 130°   | 602.2 | 602.3 | 602.4 | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 |
| 132.5° | 627.5 | 627.6 | 627.8 | 627.8 | 627.7 | 627.5 | 627.4 | 627.3 |
| 135°   | 662.4 | 662.6 | 663.0 | 663.2 | 663.6 | 663.8 | 664.2 | 664.4 |
| 137.5° | 695.8 | 696.1 | 696.5 | 696.5 | 696.5 | 696.4 | 696.3 | 696.2 |
| 140°   | 716.5 | 717.0 | 717.4 | 717.7 | 717.9 | 718.0 | 718.2 | 718.3 |
| 142.5° | 735.6 | 736.0 | 736.3 | 736.5 | 736.5 | 736.6 | 736.6 | 736.6 |
| 145°   | 763.0 | 763.2 | 763.4 | 763.5 | 763.9 | 764.1 | 764.5 | 764.7 |
| 147.5° | 787.1 | 787.2 | 787.3 | 787.5 | 787.6 | 787.7 | 787.9 | 788.1 |
| 150°   | 802.5 | 802.5 | 802.5 | 802.5 | 802.7 | 802.8 | 803.0 | 803.1 |
| 152.5° | 815.9 | 816.1 | 816.3 | 816.4 | 816.3 | 816.2 | 816.1 | 816.1 |
| 155°   | 834.0 | 834.6 | 835.2 | 835.3 | 834.7 | 834.3 | 833.9 | 833.4 |
| 157.5° | 849.5 | 850.3 | 851.1 | 851.1 | 850.3 | 849.5 | 848.8 | 848.0 |
| 160°   | 859.5 | 860.4 | 861.3 | 861.3 | 860.4 | 859.5 | 858.6 | 857.6 |
| 162.5° | 867.5 | 868.4 | 869.4 | 869.3 | 868.2 | 867.2 | 866.3 | 865.2 |
| 165°   | 878.9 | 880.1 | 881.3 | 881.2 | 879.9 | 878.6 | 877.2 | 875.8 |
| 167.5° | 887.3 | 888.6 | 889.8 | 889.8 | 888.3 | 886.7 | 885.3 | 883.8 |
| 170°   | 892.3 | 893.5 | 894.8 | 894.6 | 893.1 | 891.7 | 890.1 | 888.6 |
| 172.5° | 895.6 | 896.8 | 898.0 | 897.8 | 896.2 | 894.6 | 892.9 | 891.3 |
| 175°   | 899.4 | 900.8 | 902.1 | 901.9 | 900.1 | 898.3 | 896.5 | 894.7 |
| 177.5° | 901.0 | 901.9 | 902.8 | 902.6 | 901.1 | 899.7 | 898.3 | 896.8 |
| 180°   | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 |

(END OF REPORT)