

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: P332532-930

Luminaire Tested: **SA4XXDIP-C350D1205U930-4F0-1E-UDD-F**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332532-930  
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-C350D1205U930-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1205 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

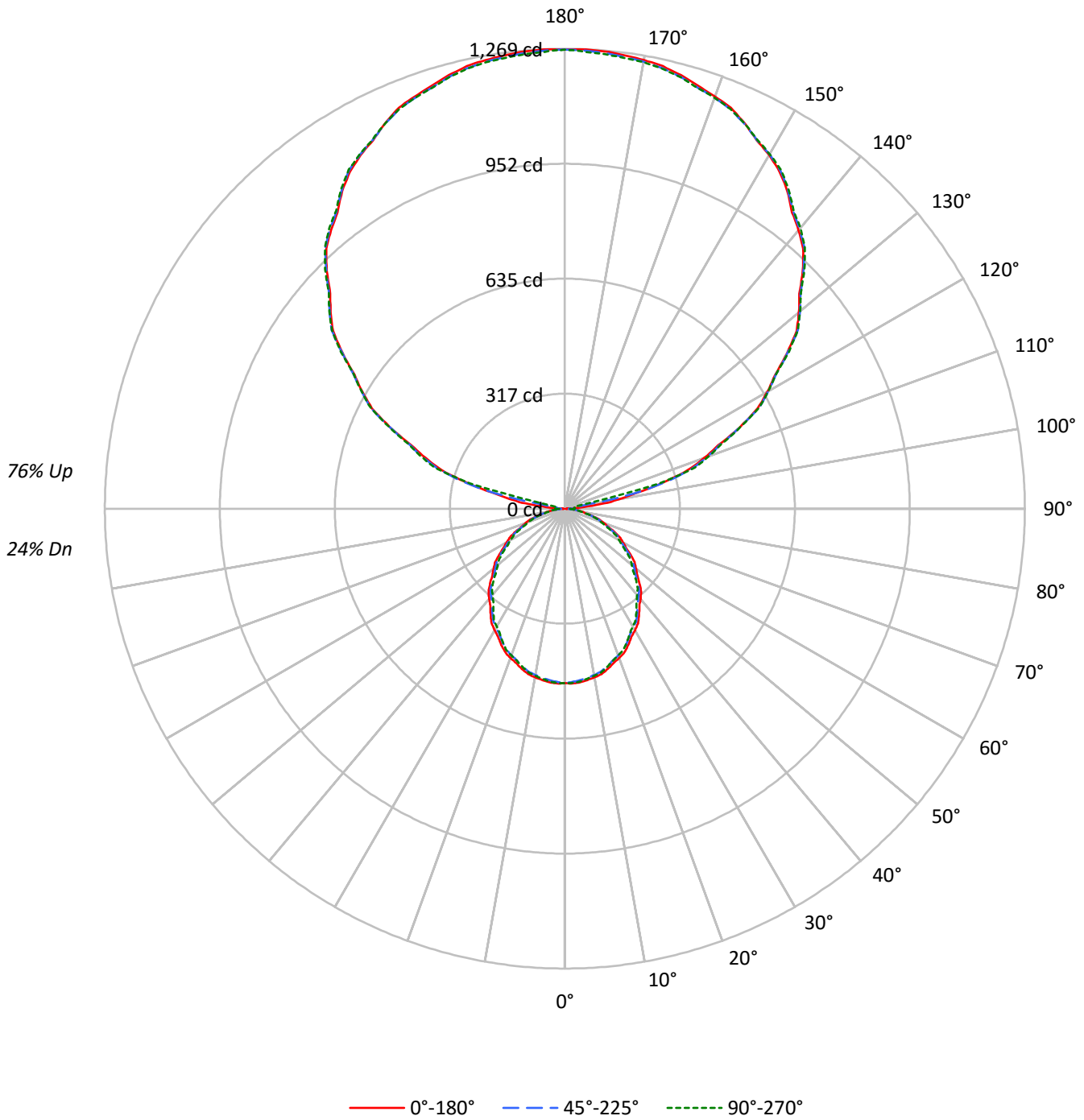
Lumens per Lamp: N/A  
Luminaire Lumens: 5157.5 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 42.2  
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: P332532-930  
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### Luminous Intensity Polar Plot





TEST NUMBER: P332532-930

CATALOG NUMBER: SA4XXDIP-C350D1205U930-4F0-1E-UDD-F

**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   | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 69 | 69 | 69 | 50 | 50 | 50 | 32 | 32 | 32 | 24 |    |    |    | 24 |
| 1   | 92  | 88  | 84  | 81  | 82 | 78 | 75 | 72 | 60 | 58 | 56 | 44 | 42 | 41 | 28 | 28 | 27 | 20 |    |    |    | 20 |
| 2   | 84  | 77  | 71  | 66  | 74 | 68 | 63 | 59 | 53 | 49 | 46 | 38 | 36 | 34 | 25 | 24 | 23 | 17 |    |    |    | 17 |
| 3   | 76  | 67  | 60  | 55  | 68 | 60 | 54 | 49 | 46 | 42 | 39 | 34 | 31 | 29 | 22 | 21 | 19 | 14 |    |    |    | 14 |
| 4   | 70  | 59  | 52  | 46  | 62 | 53 | 47 | 42 | 41 | 37 | 33 | 30 | 27 | 25 | 20 | 18 | 17 | 12 |    |    |    | 12 |
| 5   | 64  | 53  | 45  | 39  | 56 | 47 | 41 | 36 | 37 | 32 | 28 | 27 | 24 | 21 | 18 | 16 | 14 | 11 |    |    |    | 11 |
| 6   | 59  | 47  | 39  | 34  | 52 | 42 | 36 | 31 | 33 | 28 | 25 | 24 | 21 | 19 | 16 | 14 | 13 | 9  |    |    |    | 9  |
| 7   | 54  | 42  | 35  | 29  | 48 | 38 | 31 | 27 | 30 | 25 | 22 | 22 | 19 | 16 | 15 | 13 | 11 | 8  |    |    |    | 8  |
| 8   | 50  | 38  | 31  | 26  | 44 | 34 | 28 | 23 | 27 | 22 | 19 | 20 | 17 | 14 | 13 | 11 | 10 | 7  |    |    |    | 7  |
| 9   | 46  | 35  | 28  | 23  | 41 | 31 | 25 | 21 | 25 | 20 | 17 | 18 | 15 | 13 | 12 | 10 | 9  | 7  |    |    |    | 7  |
| 10  | 43  | 32  | 25  | 20  | 38 | 29 | 23 | 18 | 23 | 18 | 15 | 17 | 14 | 12 | 11 | 10 | 8  | 6  |    |    |    | 6  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3888 | 3888 | 3888 |
| 5°  | 3900 | 3853 | 3881 |
| 10° | 3875 | 3822 | 3841 |
| 15° | 3828 | 3768 | 3777 |
| 20° | 3766 | 3699 | 3703 |
| 25° | 3695 | 3624 | 3613 |
| 30° | 3608 | 3533 | 3500 |
| 35° | 3517 | 3438 | 3392 |
| 40° | 3424 | 3331 | 3270 |
| 45° | 3327 | 3225 | 3164 |
| 50° | 3218 | 3131 | 3034 |
| 55° | 3102 | 3009 | 2911 |
| 60° | 2984 | 2872 | 2785 |
| 65° | 2854 | 2743 | 2632 |
| 70° | 2705 | 2568 | 2469 |
| 75° | 2480 | 2361 | 2299 |
| 80° | 2208 | 2120 | 2064 |
| 85° | 1936 | 1862 | 1815 |



TEST NUMBER: P332532-930

CATALOG NUMBER: SA4XXDIP-C350D1205U930-4F0-1E-UDD-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.4   | 0.9       |
| 10°-20°   | 127.8  | 2.5       |
| 20°-30°   | 188.1  | 3.6       |
| 30°-40°   | 218.7  | 4.2       |
| 40°-50°   | 218.7  | 4.2       |
| 50°-60°   | 191.3  | 3.7       |
| 60°-70°   | 142.1  | 2.8       |
| 70°-80°   | 80.7   | 1.6       |
| 80°-90°   | 27.0   | 0.5       |
| 90°-100°  | 43.3   | 0.8       |
| 100°-110° | 276.2  | 5.4       |
| 110°-120° | 528.4  | 10.2      |
| 120°-130° | 670.8  | 13.0      |
| 130°-140° | 717.7  | 13.9      |
| 140°-150° | 671.1  | 13.0      |
| 150°-160° | 541.2  | 10.5      |
| 160°-170° | 349.1  | 6.8       |
| 170°-180° | 120.3  | 2.3       |
| 0°-30°    | 361.2  | 7.0       |
| 0°-40°    | 579.9  | 11.2      |
| 0°-60°    | 989.8  | 19.2      |
| 0°-90°    | 1239.6 | 24.0      |
| 90°-120°  | 847.9  | 16.4      |
| 90°-150°  | 2907.4 | 56.4      |
| 90°-180°  | 3918.0 | 76.0      |
| 0°-180°   | 5157.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 482  | 482   | 482  | 482   | 482  |      |
| 5°   | 481  | 480   | 475  | 479   | 479  | 46   |
| 15°  | 458  | 456   | 451  | 453   | 452  | 129  |
| 25°  | 415  | 412   | 407  | 407   | 406  | 191  |
| 35°  | 357  | 354   | 349  | 346   | 344  | 223  |
| 45°  | 291  | 288   | 282  | 278   | 277  | 225  |
| 55°  | 220  | 219   | 214  | 209   | 207  | 197  |
| 65°  | 149  | 147   | 144  | 140   | 138  | 148  |
| 75°  | 80   | 78    | 76   | 74    | 74   | 84   |
| 85°  | 21   | 21    | 20   | 20    | 20   | 23   |
| 90°  | 3    | 13    | 21   | 26    | 28   | 4    |
| 95°  | 52   | 22    | 21   | 26    | 28   | 67   |
| 105° | 285  | 291   | 296  | 302   | 270  | 298  |
| 115° | 532  | 535   | 534  | 536   | 536  | 524  |
| 125° | 748  | 752   | 750  | 753   | 754  | 668  |
| 135° | 928  | 928   | 931  | 933   | 935  | 715  |
| 145° | 1070 | 1073  | 1073 | 1074  | 1076 | 669  |
| 155° | 1174 | 1174  | 1172 | 1175  | 1173 | 541  |
| 165° | 1238 | 1234  | 1234 | 1240  | 1232 | 350  |
| 175° | 1267 | 1261  | 1262 | 1269  | 1259 | 121  |
| 180° | 1267 | 1267  | 1267 | 1267  | 1267 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 481.6 | 481.6 | 481.6 | 481.6 | 481.6 | 481.6 | 481.6 | 481.6 | 481.6 | 481.6 | 481.6 |
| 2.5°   | 482.8 | 482.7 | 482.4 | 482.2 | 482.0 | 481.5 | 480.8 | 480.0 | 479.3 | 478.5 | 479.2 |
| 5°     | 481.2 | 480.9 | 480.5 | 480.2 | 479.9 | 479.2 | 478.3 | 477.4 | 476.4 | 475.4 | 476.4 |
| 7.5°   | 476.8 | 476.4 | 476.1 | 475.7 | 475.4 | 474.7 | 473.6 | 472.6 | 471.6 | 470.5 | 471.2 |
| 10°    | 472.7 | 472.4 | 472.1 | 471.7 | 471.4 | 470.7 | 469.5 | 468.4 | 467.3 | 466.2 | 466.8 |
| 12.5°  | 467.5 | 467.2 | 466.8 | 466.4 | 466.1 | 465.4 | 464.1 | 463.0 | 461.8 | 460.6 | 461.4 |
| 15°    | 458.0 | 457.7 | 457.4 | 457.1 | 456.7 | 455.9 | 454.6 | 453.3 | 452.0 | 450.8 | 451.3 |
| 17.5°  | 446.7 | 446.3 | 445.9 | 445.5 | 445.0 | 444.2 | 443.0 | 441.7 | 440.5 | 439.3 | 439.6 |
| 20°    | 438.4 | 438.0 | 437.6 | 437.1 | 436.7 | 435.9 | 434.6 | 433.3 | 431.9 | 430.6 | 431.0 |
| 22.5°  | 429.4 | 428.8 | 428.3 | 427.7 | 427.1 | 426.2 | 424.9 | 423.7 | 422.4 | 421.1 | 421.6 |
| 25°    | 414.8 | 414.3 | 413.7 | 413.0 | 412.5 | 411.6 | 410.3 | 409.1 | 408.0 | 406.8 | 406.8 |
| 27.5°  | 398.2 | 397.5 | 397.0 | 396.3 | 395.7 | 394.8 | 393.7 | 392.6 | 391.5 | 390.4 | 390.2 |
| 30°    | 387.1 | 386.4 | 385.7 | 385.0 | 384.3 | 383.4 | 382.3 | 381.2 | 380.1 | 379.0 | 378.6 |
| 32.5°  | 375.4 | 374.7 | 374.1 | 373.5 | 372.8 | 371.9 | 370.8 | 369.6 | 368.4 | 367.2 | 366.8 |
| 35°    | 356.9 | 356.4 | 355.8 | 355.1 | 354.6 | 353.7 | 352.5 | 351.2 | 350.1 | 348.9 | 348.3 |
| 37.5°  | 337.6 | 337.0 | 336.5 | 336.0 | 335.4 | 334.5 | 333.2 | 331.9 | 330.6 | 329.3 | 328.6 |
| 40°    | 324.9 | 324.2 | 323.6 | 322.9 | 322.2 | 321.2 | 319.9 | 318.6 | 317.3 | 316.1 | 315.2 |
| 42.5°  | 311.4 | 311.0 | 310.5 | 310.1 | 309.7 | 308.8 | 307.4 | 305.9 | 304.5 | 303.1 | 302.1 |
| 45°    | 291.4 | 290.7 | 290.2 | 289.6 | 288.9 | 288.0 | 286.6 | 285.2 | 283.9 | 282.5 | 281.5 |
| 47.5°  | 270.4 | 270.0 | 269.6 | 269.2 | 268.8 | 268.0 | 266.7 | 265.4 | 264.2 | 262.9 | 261.8 |
| 50°    | 256.2 | 255.9 | 255.6 | 255.2 | 254.9 | 254.1 | 252.9 | 251.7 | 250.5 | 249.3 | 248.1 |
| 52.5°  | 242.4 | 241.9 | 241.5 | 241.1 | 240.7 | 239.9 | 238.6 | 237.3 | 236.0 | 234.8 | 233.7 |
| 55°    | 220.4 | 220.1 | 219.8 | 219.6 | 219.3 | 218.6 | 217.4 | 216.2 | 215.0 | 213.8 | 212.8 |
| 57.5°  | 199.3 | 199.1 | 198.8 | 198.5 | 198.2 | 197.5 | 196.2 | 195.1 | 193.9 | 192.7 | 191.8 |
| 60°    | 184.8 | 184.4 | 184.0 | 183.5 | 183.1 | 182.4 | 181.2 | 180.1 | 179.0 | 177.9 | 177.2 |
| 62.5°  | 170.6 | 170.3 | 169.9 | 169.6 | 169.2 | 168.4 | 167.2 | 166.1 | 164.9 | 163.7 | 163.0 |
| 65°    | 149.4 | 149.0 | 148.5 | 148.1 | 147.7 | 147.0 | 146.1 | 145.3 | 144.4 | 143.6 | 142.7 |
| 67.5°  | 127.9 | 127.5 | 127.1 | 126.7 | 126.3 | 125.7 | 124.9 | 124.1 | 123.3 | 122.4 | 121.6 |
| 70°    | 114.6 | 114.0 | 113.4 | 112.8 | 112.2 | 111.5 | 110.9 | 110.2 | 109.5 | 108.8 | 108.1 |
| 72.5°  | 100.4 | 99.8  | 99.2  | 98.7  | 98.0  | 97.4  | 96.9  | 96.4  | 95.8  | 95.2  | 94.7  |
| 75°    | 79.5  | 79.1  | 78.7  | 78.2  | 77.8  | 77.4  | 77.0  | 76.5  | 76.1  | 75.7  | 75.3  |
| 77.5°  | 59.5  | 59.4  | 59.1  | 58.9  | 58.8  | 58.5  | 58.1  | 57.7  | 57.3  | 57.0  | 56.8  |
| 80°    | 47.5  | 47.2  | 47.0  | 46.7  | 46.5  | 46.2  | 46.1  | 45.9  | 45.7  | 45.6  | 45.3  |
| 82.5°  | 35.7  | 35.6  | 35.5  | 35.4  | 35.2  | 35.1  | 35.1  | 35.1  | 35.1  | 35.1  | 35.0  |
| 85°    | 20.9  | 20.9  | 20.9  | 20.9  | 20.9  | 20.8  | 20.5  | 20.4  | 20.2  | 20.1  | 20.1  |
| 87.5°  | 8.6   | 9.0   | 9.4   | 9.8   | 10.2  | 10.5  | 10.8  | 11.0  | 11.3  | 11.6  | 11.8  |
| 90°    | 2.9   | 5.1   | 7.5   | 9.8   | 12.1  | 14.1  | 15.8  | 17.4  | 19.2  | 20.9  | 22.1  |
| 92.5°  | 11.9  | 12.1  | 12.2  | 12.3  | 12.5  | 13.4  | 15.0  | 16.7  | 18.4  | 20.1  | 21.4  |
| 95°    | 52.1  | 44.9  | 37.7  | 30.7  | 23.5  | 20.0  | 20.2  | 20.4  | 20.6  | 20.9  | 22.1  |
| 97.5°  | 110.6 | 115.1 | 119.6 | 124.0 | 128.5 | 119.0 | 95.5  | 72.0  | 48.5  | 25.0  | 25.1  |
| 100°   | 155.4 | 159.1 | 163.0 | 166.7 | 170.6 | 157.9 | 128.8 | 99.8  | 70.8  | 41.7  | 38.1  |
| 102.5° | 205.4 | 208.1 | 210.9 | 213.7 | 216.5 | 216.0 | 212.2 | 208.4 | 204.6 | 200.8 | 162.2 |
| 105°   | 285.1 | 286.4 | 287.6 | 288.9 | 290.2 | 291.4 | 292.4 | 293.4 | 294.5 | 295.5 | 297.5 |
| 107.5° | 359.2 | 359.9 | 360.5 | 361.1 | 361.7 | 362.8 | 364.2 | 365.7 | 367.0 | 368.5 | 369.4 |
| 110°   | 409.3 | 409.9 | 410.5 | 411.2 | 411.8 | 412.7 | 414.0 | 415.2 | 416.5 | 417.8 | 418.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 457.8  | 458.9  | 460.0  | 461.1  | 462.3  | 463.2  | 463.7  | 464.3  | 465.0  | 465.5  | 465.5  |
| 115°   | 532.4  | 533.0  | 533.7  | 534.3  | 534.9  | 535.2  | 534.9  | 534.8  | 534.5  | 534.3  | 534.8  |
| 117.5° | 599.7  | 600.5  | 601.4  | 602.2  | 603.0  | 603.6  | 604.1  | 604.6  | 605.1  | 605.5  | 605.4  |
| 120°   | 645.1  | 646.0  | 646.9  | 647.7  | 648.5  | 648.8  | 648.7  | 648.4  | 648.2  | 648.0  | 648.4  |
| 122.5° | 687.5  | 688.1  | 688.6  | 689.1  | 689.6  | 690.0  | 690.3  | 690.6  | 690.9  | 691.2  | 691.5  |
| 125°   | 748.4  | 749.3  | 750.1  | 750.9  | 751.8  | 752.0  | 751.5  | 751.1  | 750.7  | 750.3  | 750.9  |
| 127.5° | 806.0  | 806.2  | 806.4  | 806.7  | 806.8  | 807.4  | 808.4  | 809.3  | 810.3  | 811.3  | 811.1  |
| 130°   | 843.1  | 843.3  | 843.6  | 843.8  | 844.0  | 844.4  | 845.1  | 845.6  | 846.3  | 846.9  | 847.1  |
| 132.5° | 877.3  | 877.6  | 878.0  | 878.4  | 878.7  | 879.4  | 880.1  | 880.9  | 881.7  | 882.6  | 882.7  |
| 135°   | 928.4  | 928.2  | 928.0  | 927.7  | 927.6  | 927.9  | 928.7  | 929.5  | 930.4  | 931.2  | 931.6  |
| 137.5° | 973.7  | 973.8  | 973.9  | 974.0  | 974.0  | 974.5  | 975.4  | 976.4  | 977.3  | 978.2  | 978.7  |
| 140°   | 1003.2 | 1003.6 | 1004.0 | 1004.5 | 1004.9 | 1005.3 | 1005.8 | 1006.2 | 1006.6 | 1007.1 | 1007.6 |
| 142.5° | 1029.7 | 1030.5 | 1031.3 | 1032.0 | 1032.8 | 1033.3 | 1033.6 | 1033.8 | 1034.0 | 1034.3 | 1034.8 |
| 145°   | 1070.5 | 1071.1 | 1071.8 | 1072.4 | 1073.0 | 1073.3 | 1073.3 | 1073.3 | 1073.3 | 1073.3 | 1073.6 |
| 147.5° | 1102.9 | 1104.1 | 1105.2 | 1106.4 | 1107.6 | 1108.1 | 1107.9 | 1107.7 | 1107.4 | 1107.3 | 1107.4 |
| 150°   | 1126.4 | 1127.2 | 1128.0 | 1128.9 | 1129.8 | 1130.1 | 1129.8 | 1129.7 | 1129.4 | 1129.2 | 1129.2 |
| 152.5° | 1146.1 | 1146.8 | 1147.5 | 1148.1 | 1148.8 | 1148.9 | 1148.6 | 1148.2 | 1147.8 | 1147.5 | 1147.8 |
| 155°   | 1173.8 | 1173.9 | 1174.2 | 1174.4 | 1174.6 | 1174.4 | 1173.8 | 1173.1 | 1172.5 | 1171.8 | 1172.7 |
| 157.5° | 1197.0 | 1196.9 | 1196.8 | 1196.7 | 1196.5 | 1196.1 | 1195.4 | 1194.7 | 1194.0 | 1193.3 | 1194.3 |
| 160°   | 1210.7 | 1210.1 | 1209.4 | 1208.8 | 1208.2 | 1207.8 | 1207.5 | 1207.3 | 1207.1 | 1206.9 | 1208.2 |
| 162.5° | 1222.8 | 1222.1 | 1221.2 | 1220.4 | 1219.6 | 1219.1 | 1218.9 | 1218.7 | 1218.5 | 1218.3 | 1219.5 |
| 165°   | 1238.2 | 1237.1 | 1236.1 | 1235.0 | 1234.0 | 1233.5 | 1233.5 | 1233.5 | 1233.5 | 1233.5 | 1235.1 |
| 167.5° | 1250.3 | 1249.2 | 1248.1 | 1247.0 | 1245.9 | 1245.3 | 1245.2 | 1245.0 | 1245.0 | 1244.8 | 1246.7 |
| 170°   | 1257.1 | 1255.9 | 1254.6 | 1253.4 | 1252.1 | 1251.6 | 1251.7 | 1252.0 | 1252.1 | 1252.4 | 1254.1 |
| 172.5° | 1261.7 | 1260.4 | 1259.1 | 1257.8 | 1256.6 | 1256.1 | 1256.3 | 1256.5 | 1256.7 | 1256.9 | 1258.6 |
| 175°   | 1266.6 | 1265.3 | 1264.0 | 1262.8 | 1261.5 | 1261.0 | 1261.2 | 1261.4 | 1261.7 | 1261.8 | 1263.7 |
| 177.5° | 1268.9 | 1267.7 | 1266.5 | 1265.3 | 1264.1 | 1263.7 | 1264.0 | 1264.4 | 1264.8 | 1265.1 | 1266.4 |
| 180°   | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 481.6 | 481.6 | 481.6 | 481.6 | 481.6 | 481.6 | 481.6 | 481.6 |
| 2.5°   | 479.9 | 480.6 | 481.3 | 481.6 | 481.5 | 481.4 | 481.4 | 481.3 |
| 5°     | 477.4 | 478.3 | 479.2 | 479.6 | 479.4 | 479.2 | 479.1 | 478.9 |
| 7.5°   | 472.0 | 472.8 | 473.5 | 473.9 | 473.8 | 473.6 | 473.5 | 473.4 |
| 10°    | 467.6 | 468.2 | 469.0 | 469.2 | 469.0 | 468.8 | 468.6 | 468.5 |
| 12.5°  | 462.1 | 462.8 | 463.7 | 463.9 | 463.7 | 463.4 | 463.2 | 462.9 |
| 15°    | 451.8 | 452.2 | 452.8 | 452.9 | 452.7 | 452.4 | 452.2 | 451.9 |
| 17.5°  | 439.9 | 440.3 | 440.6 | 440.7 | 440.5 | 440.3 | 440.2 | 440.0 |
| 20°    | 431.2 | 431.5 | 431.7 | 431.8 | 431.5 | 431.4 | 431.2 | 431.0 |
| 22.5°  | 422.0 | 422.5 | 423.0 | 423.1 | 422.7 | 422.4 | 422.1 | 421.8 |
| 25°    | 406.9 | 407.0 | 407.1 | 407.0 | 406.6 | 406.3 | 405.9 | 405.6 |
| 27.5°  | 390.0 | 389.8 | 389.6 | 389.2 | 388.8 | 388.4 | 387.9 | 387.5 |
| 30°    | 378.3 | 378.0 | 377.6 | 377.2 | 376.7 | 376.3 | 375.9 | 375.5 |
| 32.5°  | 366.4 | 366.0 | 365.6 | 365.2 | 364.8 | 364.3 | 363.9 | 363.5 |
| 35°    | 347.6 | 347.1 | 346.4 | 345.9 | 345.5 | 345.1 | 344.6 | 344.2 |
| 37.5°  | 328.0 | 327.3 | 326.7 | 326.1 | 325.5 | 325.0 | 324.4 | 323.8 |
| 40°    | 314.4 | 313.5 | 312.7 | 312.0 | 311.5 | 311.1 | 310.7 | 310.3 |
| 42.5°  | 301.1 | 300.1 | 299.1 | 298.5 | 298.2 | 297.9 | 297.6 | 297.3 |
| 45°    | 280.6 | 279.6 | 278.8 | 278.1 | 277.9 | 277.6 | 277.4 | 277.1 |
| 47.5°  | 260.7 | 259.7 | 258.6 | 257.8 | 257.1 | 256.5 | 255.8 | 255.2 |
| 50°    | 246.9 | 245.7 | 244.5 | 243.6 | 243.1 | 242.6 | 242.1 | 241.6 |
| 52.5°  | 232.7 | 231.6 | 230.6 | 229.7 | 229.0 | 228.4 | 227.7 | 227.1 |
| 55°    | 211.7 | 210.7 | 209.7 | 208.9 | 208.4 | 207.9 | 207.3 | 206.8 |
| 57.5°  | 190.8 | 189.8 | 188.8 | 188.1 | 187.6 | 187.1 | 186.6 | 186.1 |
| 60°    | 176.3 | 175.6 | 174.8 | 174.2 | 173.8 | 173.3 | 172.9 | 172.5 |
| 62.5°  | 162.3 | 161.6 | 160.9 | 160.3 | 159.9 | 159.5 | 159.1 | 158.6 |
| 65°    | 141.9 | 141.0 | 140.1 | 139.5 | 139.1 | 138.6 | 138.2 | 137.8 |
| 67.5°  | 120.7 | 119.9 | 119.1 | 118.6 | 118.5 | 118.4 | 118.3 | 118.1 |
| 70°    | 107.5 | 106.8 | 106.1 | 105.6 | 105.3 | 105.1 | 104.8 | 104.6 |
| 72.5°  | 94.2  | 93.6  | 93.0  | 92.6  | 92.4  | 92.1  | 91.9  | 91.6  |
| 75°    | 74.9  | 74.6  | 74.3  | 74.0  | 73.9  | 73.9  | 73.8  | 73.7  |
| 77.5°  | 56.7  | 56.7  | 56.6  | 56.4  | 56.2  | 55.9  | 55.7  | 55.5  |
| 80°    | 45.2  | 45.0  | 44.8  | 44.8  | 44.6  | 44.5  | 44.4  | 44.4  |
| 82.5°  | 34.8  | 34.7  | 34.7  | 34.6  | 34.5  | 34.3  | 34.2  | 34.2  |
| 85°    | 20.1  | 20.1  | 20.1  | 20.1  | 20.0  | 19.9  | 19.7  | 19.6  |
| 87.5°  | 12.1  | 12.3  | 12.6  | 12.7  | 12.8  | 13.0  | 13.0  | 13.1  |
| 90°    | 23.4  | 24.6  | 25.9  | 26.7  | 27.1  | 27.6  | 28.0  | 28.5  |
| 92.5°  | 22.6  | 23.9  | 25.1  | 25.8  | 25.9  | 26.0  | 26.1  | 26.2  |
| 95°    | 23.4  | 24.6  | 25.9  | 26.7  | 26.8  | 27.1  | 27.2  | 27.5  |
| 97.5°  | 25.3  | 25.4  | 25.5  | 25.7  | 25.9  | 26.1  | 26.3  | 26.5  |
| 100°   | 34.5  | 31.0  | 27.4  | 25.7  | 25.9  | 26.1  | 26.3  | 26.5  |
| 102.5° | 123.6 | 85.0  | 46.4  | 27.1  | 27.1  | 27.2  | 27.2  | 27.3  |
| 105°   | 299.4 | 301.3 | 303.1 | 300.3 | 292.7 | 285.1 | 277.6 | 270.0 |
| 107.5° | 370.4 | 371.3 | 372.2 | 373.1 | 373.9 | 374.7 | 375.4 | 376.3 |
| 110°   | 418.7 | 419.1 | 419.5 | 420.0 | 420.6 | 421.3 | 421.9 | 422.5 |





TEST NUMBER: P332532-930

CATALOG NUMBER: SA4XXDIP-C350D1205U930-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 465.4  | 465.3  | 465.2  | 465.5  | 466.4  | 467.2  | 468.0  | 468.7  |
| 115°   | 535.2  | 535.6  | 536.0  | 536.2  | 536.2  | 536.2  | 536.2  | 536.2  |
| 117.5° | 605.4  | 605.3  | 605.2  | 605.1  | 605.0  | 605.0  | 604.9  | 604.8  |
| 120°   | 648.8  | 649.2  | 649.6  | 649.6  | 649.2  | 648.8  | 648.4  | 648.0  |
| 122.5° | 691.7  | 691.9  | 692.2  | 692.1  | 691.7  | 691.3  | 690.8  | 690.4  |
| 125°   | 751.5  | 752.2  | 752.8  | 753.3  | 753.4  | 753.7  | 753.9  | 754.1  |
| 127.5° | 811.1  | 810.9  | 810.8  | 810.7  | 810.5  | 810.3  | 810.2  | 810.0  |
| 130°   | 847.3  | 847.6  | 847.7  | 847.8  | 847.8  | 847.8  | 847.8  | 847.8  |
| 132.5° | 883.0  | 883.2  | 883.4  | 883.4  | 883.2  | 883.1  | 882.9  | 882.7  |
| 135°   | 932.1  | 932.5  | 932.9  | 933.4  | 933.8  | 934.2  | 934.6  | 935.0  |
| 137.5° | 979.2  | 979.6  | 980.1  | 980.2  | 980.2  | 980.0  | 979.8  | 979.7  |
| 140°   | 1008.3 | 1008.9 | 1009.6 | 1010.0 | 1010.2 | 1010.4 | 1010.6 | 1010.8 |
| 142.5° | 1035.3 | 1035.7 | 1036.2 | 1036.4 | 1036.5 | 1036.5 | 1036.6 | 1036.6 |
| 145°   | 1073.7 | 1074.0 | 1074.2 | 1074.5 | 1074.9 | 1075.3 | 1075.8 | 1076.2 |
| 147.5° | 1107.6 | 1107.7 | 1107.9 | 1108.1 | 1108.3 | 1108.6 | 1108.7 | 1109.0 |
| 150°   | 1129.2 | 1129.2 | 1129.2 | 1129.4 | 1129.5 | 1129.8 | 1130.0 | 1130.2 |
| 152.5° | 1148.1 | 1148.4 | 1148.8 | 1148.8 | 1148.8 | 1148.6 | 1148.5 | 1148.3 |
| 155°   | 1173.5 | 1174.4 | 1175.3 | 1175.3 | 1174.7 | 1174.0 | 1173.5 | 1172.8 |
| 157.5° | 1195.5 | 1196.5 | 1197.7 | 1197.7 | 1196.5 | 1195.5 | 1194.3 | 1193.3 |
| 160°   | 1209.4 | 1210.7 | 1211.9 | 1211.9 | 1210.7 | 1209.4 | 1208.2 | 1206.9 |
| 162.5° | 1220.8 | 1222.1 | 1223.4 | 1223.3 | 1221.8 | 1220.4 | 1219.0 | 1217.5 |
| 165°   | 1236.8 | 1238.5 | 1240.2 | 1240.1 | 1238.2 | 1236.2 | 1234.4 | 1232.5 |
| 167.5° | 1248.5 | 1250.3 | 1252.2 | 1252.1 | 1250.0 | 1247.9 | 1245.8 | 1243.7 |
| 170°   | 1255.7 | 1257.4 | 1259.1 | 1258.9 | 1256.8 | 1254.7 | 1252.6 | 1250.5 |
| 172.5° | 1260.3 | 1262.0 | 1263.6 | 1263.4 | 1261.1 | 1258.8 | 1256.5 | 1254.3 |
| 175°   | 1265.7 | 1267.5 | 1269.4 | 1269.1 | 1266.6 | 1264.0 | 1261.5 | 1259.0 |
| 177.5° | 1267.8 | 1269.1 | 1270.5 | 1270.2 | 1268.1 | 1266.1 | 1264.0 | 1262.1 |
| 180°   | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 | 1266.6 |

(END OF REPORT)