

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: P331452-935

Luminaire Tested: **SA2XXDIP-C1005D925U935-4F0-1E-UDD-D4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331452-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C1005D925U935-4F0-1E-UDD-D4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

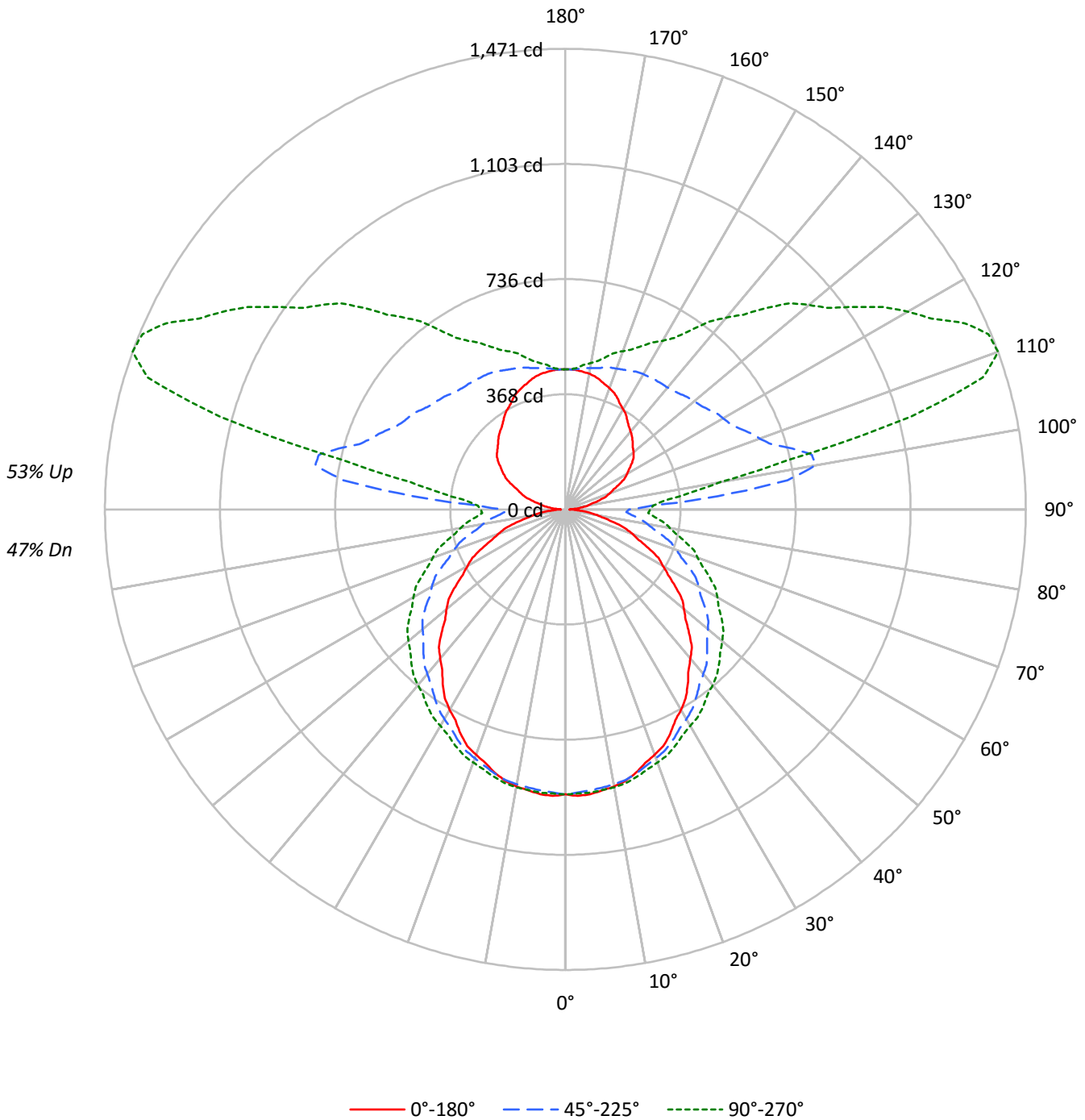
Lumens per Lamp: N/A  
Luminaire Lumens: 6586.9 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

Input Watts (W): 66.8  
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: P331452-935  
CATALOG NUMBER: SA2XXDIP-C1005D925U935-4F0-1E-UDD-D4

### Luminous Intensity Polar Plot





TEST NUMBER: P331452-935

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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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 53 | 53 | 53 | 47 |
| 1   | 96  | 91  | 86  | 82  | 88 | 83 | 80 | 76 | 69 | 67 | 64 | 57 | 55 | 53 | 45 | 43 | 42 | 37 |
| 2   | 87  | 78  | 72  | 66  | 79 | 72 | 66 | 61 | 60 | 56 | 52 | 49 | 46 | 43 | 39 | 36 | 34 | 30 |
| 3   | 79  | 68  | 61  | 54  | 72 | 63 | 56 | 51 | 52 | 47 | 43 | 43 | 39 | 36 | 34 | 31 | 29 | 24 |
| 4   | 72  | 60  | 52  | 46  | 65 | 55 | 48 | 42 | 46 | 41 | 36 | 38 | 34 | 30 | 30 | 27 | 24 | 21 |
| 5   | 66  | 53  | 45  | 39  | 60 | 49 | 42 | 36 | 41 | 35 | 31 | 34 | 29 | 26 | 27 | 24 | 21 | 18 |
| 6   | 60  | 48  | 39  | 33  | 55 | 44 | 37 | 31 | 37 | 31 | 27 | 30 | 26 | 22 | 24 | 21 | 18 | 15 |
| 7   | 56  | 43  | 35  | 29  | 51 | 40 | 32 | 27 | 33 | 28 | 23 | 28 | 23 | 20 | 22 | 19 | 16 | 13 |
| 8   | 52  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 30 | 25 | 21 | 25 | 21 | 17 | 20 | 17 | 14 | 12 |
| 9   | 48  | 35  | 28  | 23  | 44 | 33 | 26 | 21 | 28 | 22 | 18 | 23 | 19 | 16 | 19 | 15 | 13 | 11 |
| 10  | 45  | 32  | 25  | 20  | 41 | 30 | 23 | 19 | 26 | 20 | 16 | 21 | 17 | 14 | 17 | 14 | 12 | 10 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14699 | 14699 | 14699 |
| 5°  | 14772 | 14150 | 14097 |
| 10° | 14679 | 13733 | 13578 |
| 15° | 14477 | 13289 | 13032 |
| 20° | 14222 | 12815 | 12506 |
| 25° | 13968 | 12358 | 12028 |
| 30° | 13612 | 11889 | 11549 |
| 35° | 13253 | 11434 | 11211 |
| 40° | 12874 | 11047 | 10874 |
| 45° | 12515 | 10702 | 10584 |
| 50° | 12128 | 10388 | 10300 |
| 55° | 11724 | 10052 | 10011 |
| 60° | 11226 | 9702  | 9705  |
| 65° | 10711 | 9294  | 9342  |
| 70° | 10136 | 8856  | 8949  |
| 75° | 9394  | 8423  | 8587  |
| 80° | 8224  | 7984  | 8220  |
| 85° | 7107  | 7603  | 7937  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.3   | 1.3       |
| 10°-20°   | 247.4  | 3.8       |
| 20°-30°   | 374.9  | 5.7       |
| 30°-40°   | 456.6  | 6.9       |
| 40°-50°   | 491.2  | 7.5       |
| 50°-60°   | 477.0  | 7.2       |
| 60°-70°   | 416.5  | 6.3       |
| 70°-80°   | 320.7  | 4.9       |
| 80°-90°   | 219.2  | 3.3       |
| 90°-100°  | 326.9  | 5.0       |
| 100°-110° | 714.6  | 10.8      |
| 110°-120° | 715.6  | 10.9      |
| 120°-130° | 570.1  | 8.7       |
| 130°-140° | 442.5  | 6.7       |
| 140°-150° | 324.7  | 4.9       |
| 150°-160° | 226.1  | 3.4       |
| 160°-170° | 133.1  | 2.0       |
| 170°-180° | 43.3   | 0.7       |
| 0°-30°    | 708.5  | 10.8      |
| 0°-40°    | 1165.2 | 17.7      |
| 0°-60°    | 2133.4 | 32.4      |
| 0°-90°    | 3089.9 | 46.9      |
| 90°-120°  | 1757.1 | 26.7      |
| 90°-150°  | 3094.4 | 47.0      |
| 90°-180°  | 3497.0 | 53.1      |
| 0°-180°   | 6586.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 910 | 910   | 910 | 910   | 910  |      |
| 5°   | 913 | 909   | 901 | 909   | 908  | 87   |
| 15°  | 871 | 873   | 874 | 885   | 884  | 245  |
| 25°  | 792 | 801   | 813 | 828   | 833  | 364  |
| 35°  | 682 | 705   | 730 | 758   | 768  | 426  |
| 45°  | 560 | 596   | 641 | 681   | 695  | 432  |
| 55°  | 429 | 478   | 545 | 591   | 610  | 383  |
| 65°  | 293 | 358   | 435 | 488   | 507  | 291  |
| 75°  | 162 | 237   | 321 | 375   | 394  | 172  |
| 85°  | 48  | 129   | 214 | 267   | 288  | 51   |
| 90°  | 14  | 102   | 203 | 253   | 271  | 10   |
| 95°  | 41  | 147   | 489 | 327   | 316  | 40   |
| 105° | 111 | 205   | 750 | 1296  | 1143 | 119  |
| 115° | 190 | 256   | 612 | 1217  | 1408 | 188  |
| 125° | 260 | 310   | 557 | 970   | 1126 | 232  |
| 135° | 304 | 363   | 521 | 790   | 910  | 235  |
| 145° | 345 | 397   | 504 | 633   | 698  | 217  |
| 155° | 393 | 424   | 489 | 553   | 575  | 181  |
| 165° | 428 | 441   | 468 | 497   | 504  | 121  |
| 175° | 446 | 446   | 450 | 456   | 455  | 42   |
| 180° | 447 | 447   | 447 | 447   | 447  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4 | 910.4  |
| 2.5°   | 915.8 | 915.1 | 914.3 | 913.6 | 912.9 | 911.7 | 910.1 | 908.4 | 906.8 | 905.2 | 906.4  |
| 5°     | 913.1 | 912.2 | 911.4 | 910.4 | 909.6 | 908.3 | 906.5 | 904.7 | 903.0 | 901.2 | 903.0  |
| 7.5°   | 904.9 | 904.3 | 903.7 | 903.2 | 902.6 | 901.6 | 900.3 | 898.9 | 897.6 | 896.2 | 898.3  |
| 10°    | 898.6 | 898.0 | 897.4 | 896.8 | 896.2 | 895.5 | 894.7 | 893.7 | 892.9 | 892.0 | 894.3  |
| 12.5°  | 888.0 | 888.1 | 888.3 | 888.4 | 888.5 | 888.2 | 887.6 | 886.9 | 886.3 | 885.6 | 888.0  |
| 15°    | 870.9 | 871.5 | 872.0 | 872.6 | 873.2 | 873.5 | 873.5 | 873.5 | 873.5 | 873.5 | 876.2  |
| 17.5°  | 848.7 | 850.0 | 851.2 | 852.4 | 853.6 | 854.7 | 855.7 | 856.6 | 857.6 | 858.5 | 861.3  |
| 20°    | 834.0 | 835.4 | 836.9 | 838.4 | 839.8 | 841.1 | 842.3 | 843.4 | 844.6 | 845.8 | 849.0  |
| 22.5°  | 818.1 | 819.8 | 821.5 | 823.2 | 824.9 | 826.6 | 828.2 | 829.8 | 831.5 | 833.1 | 836.4  |
| 25°    | 791.7 | 793.8 | 795.8 | 797.9 | 800.0 | 802.3 | 804.9 | 807.5 | 810.2 | 812.8 | 816.3  |
| 27.5°  | 760.0 | 763.4 | 766.7 | 770.1 | 773.4 | 776.6 | 779.7 | 782.8 | 785.9 | 789.1 | 793.5  |
| 30°    | 738.9 | 742.7 | 746.6 | 750.4 | 754.1 | 758.0 | 761.8 | 765.6 | 769.4 | 773.3 | 777.9  |
| 32.5°  | 715.7 | 720.0 | 724.3 | 728.6 | 732.8 | 737.2 | 741.8 | 746.2 | 750.8 | 755.3 | 760.7  |
| 35°    | 682.2 | 687.2 | 692.2 | 697.2 | 702.1 | 707.4 | 713.0 | 718.5 | 724.1 | 729.7 | 736.2  |
| 37.5°  | 645.8 | 651.5 | 657.3 | 663.0 | 668.7 | 675.2 | 682.4 | 689.7 | 696.9 | 704.1 | 711.3  |
| 40°    | 621.5 | 627.9 | 634.4 | 640.8 | 647.3 | 654.4 | 662.4 | 670.3 | 678.2 | 686.1 | 693.8  |
| 42.5°  | 598.3 | 604.7 | 611.1 | 617.6 | 624.1 | 631.8 | 640.9 | 650.1 | 659.1 | 668.2 | 676.5  |
| 45°    | 559.5 | 567.4 | 575.3 | 583.2 | 591.2 | 600.2 | 610.5 | 620.8 | 631.0 | 641.3 | 650.4  |
| 47.5°  | 521.2 | 529.9 | 538.5 | 547.1 | 555.7 | 566.0 | 578.1 | 590.0 | 602.1 | 614.1 | 623.6  |
| 50°    | 494.8 | 503.9 | 513.0 | 522.1 | 531.2 | 542.3 | 555.5 | 568.7 | 581.9 | 595.1 | 605.1  |
| 52.5°  | 469.5 | 479.1 | 488.6 | 498.2 | 507.7 | 519.4 | 533.3 | 547.3 | 561.1 | 575.1 | 585.2  |
| 55°    | 428.9 | 439.4 | 450.0 | 460.5 | 471.1 | 484.0 | 499.2 | 514.4 | 529.7 | 544.9 | 555.5  |
| 57.5°  | 388.7 | 400.6 | 412.5 | 424.5 | 436.4 | 450.0 | 465.6 | 481.1 | 496.7 | 512.2 | 523.6  |
| 60°    | 360.2 | 372.8 | 385.5 | 398.0 | 410.7 | 425.3 | 442.0 | 458.7 | 475.4 | 492.1 | 503.3  |
| 62.5°  | 334.9 | 347.9 | 361.0 | 374.1 | 387.2 | 402.1 | 418.8 | 435.5 | 452.3 | 469.0 | 480.8  |
| 65°    | 292.9 | 307.3 | 321.7 | 336.0 | 350.4 | 366.3 | 383.6 | 400.8 | 418.1 | 435.4 | 447.5  |
| 67.5°  | 254.4 | 269.4 | 284.4 | 299.5 | 314.4 | 330.8 | 348.5 | 366.3 | 383.9 | 401.7 | 413.8  |
| 70°    | 227.0 | 242.2 | 257.4 | 272.7 | 287.9 | 304.6 | 322.9 | 341.0 | 359.2 | 377.4 | 389.9  |
| 72.5°  | 201.6 | 217.3 | 233.1 | 248.7 | 264.5 | 281.5 | 300.0 | 318.4 | 336.8 | 355.2 | 367.6  |
| 75°    | 162.3 | 178.7 | 195.1 | 211.5 | 228.0 | 245.6 | 264.3 | 283.1 | 301.9 | 320.6 | 333.2  |
| 77.5°  | 124.3 | 141.5 | 158.7 | 175.8 | 193.0 | 211.1 | 230.2 | 249.3 | 268.3 | 287.4 | 300.0  |
| 80°    | 98.9  | 116.8 | 134.7 | 152.7 | 170.5 | 189.0 | 208.0 | 227.1 | 246.2 | 265.2 | 277.5  |
| 82.5°  | 77.8  | 95.5  | 113.1 | 130.8 | 148.4 | 166.9 | 186.2 | 205.5 | 224.8 | 244.1 | 256.4  |
| 85°    | 47.5  | 65.7  | 83.9  | 102.0 | 120.2 | 138.7 | 157.5 | 176.2 | 195.0 | 213.8 | 226.1  |
| 87.5°  | 26.0  | 44.0  | 62.2  | 80.0  | 97.8  | 116.5 | 136.1 | 156.1 | 175.8 | 194.8 | 206.6  |
| 90°    | 14.0  | 33.7  | 54.1  | 72.8  | 91.5  | 112.0 | 135.1 | 159.8 | 183.7 | 203.4 | 214.3  |
| 92.5°  | 22.6  | 43.1  | 65.1  | 84.7  | 106.4 | 131.5 | 168.9 | 214.3 | 256.8 | 276.4 | 270.5  |
| 95°    | 40.6  | 57.9  | 80.2  | 101.8 | 129.2 | 165.6 | 222.7 | 315.0 | 432.3 | 488.6 | 457.6  |
| 97.5°  | 58.2  | 75.1  | 96.5  | 120.5 | 148.5 | 186.4 | 253.0 | 374.0 | 556.6 | 715.4 | 754.5  |
| 100°   | 75.4  | 88.9  | 107.5 | 132.0 | 160.1 | 197.8 | 259.7 | 381.0 | 583.0 | 810.8 | 945.4  |
| 102.5° | 90.1  | 101.9 | 119.6 | 143.3 | 171.1 | 208.0 | 266.1 | 375.2 | 563.0 | 806.8 | 1012.0 |
| 105°   | 111.4 | 123.4 | 137.9 | 159.3 | 186.7 | 222.7 | 278.3 | 370.0 | 527.0 | 750.2 | 989.0  |
| 107.5° | 136.0 | 145.5 | 158.1 | 176.8 | 202.3 | 237.2 | 291.0 | 372.3 | 504.1 | 690.6 | 902.4  |
| 110°   | 151.4 | 160.7 | 171.7 | 188.7 | 212.7 | 247.6 | 299.8 | 376.1 | 495.2 | 660.9 | 848.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 166.5 | 174.9 | 185.6 | 201.0 | 223.3 | 258.2 | 308.3 | 380.4 | 489.3 | 638.3 | 807.8 |
| 115°   | 190.0 | 197.5 | 206.0 | 219.5 | 239.9 | 271.3 | 321.4 | 387.0 | 483.6 | 611.9 | 756.5 |
| 117.5° | 213.1 | 218.7 | 225.9 | 237.1 | 255.7 | 287.0 | 333.4 | 394.7 | 479.9 | 593.1 | 719.8 |
| 120°   | 228.3 | 232.8 | 239.2 | 248.1 | 266.5 | 297.0 | 342.2 | 400.4 | 478.2 | 581.9 | 699.2 |
| 122.5° | 242.6 | 245.9 | 251.5 | 260.4 | 278.1 | 308.6 | 351.0 | 405.0 | 477.4 | 572.8 | 681.0 |
| 125°   | 260.5 | 263.0 | 268.2 | 278.4 | 295.7 | 324.4 | 364.7 | 412.8 | 475.4 | 557.0 | 653.4 |
| 127.5° | 275.5 | 278.7 | 285.6 | 296.7 | 312.9 | 341.3 | 378.9 | 421.2 | 475.2 | 544.6 | 627.8 |
| 130°   | 284.5 | 287.7 | 295.9 | 307.6 | 324.6 | 351.5 | 387.8 | 426.6 | 475.7 | 536.9 | 611.0 |
| 132.5° | 292.7 | 296.5 | 305.6 | 318.0 | 335.5 | 361.9 | 395.3 | 432.0 | 476.3 | 529.9 | 596.2 |
| 135°   | 303.8 | 307.2 | 317.5 | 330.5 | 350.2 | 375.7 | 406.1 | 439.2 | 476.5 | 520.6 | 575.8 |
| 137.5° | 315.5 | 319.5 | 329.8 | 343.5 | 363.0 | 386.0 | 414.4 | 443.8 | 476.3 | 512.8 | 559.3 |
| 140°   | 324.4 | 327.5 | 337.6 | 351.0 | 369.6 | 392.1 | 418.5 | 445.7 | 475.5 | 507.9 | 549.6 |
| 142.5° | 333.4 | 335.8 | 345.2 | 358.6 | 376.5 | 397.4 | 422.6 | 448.7 | 476.0 | 505.8 | 541.7 |
| 145°   | 345.4 | 348.9 | 357.5 | 370.4 | 387.5 | 406.5 | 429.6 | 453.7 | 477.8 | 503.5 | 532.8 |
| 147.5° | 359.9 | 362.5 | 370.7 | 382.5 | 396.8 | 413.7 | 435.5 | 456.7 | 478.5 | 500.5 | 524.8 |
| 150°   | 369.5 | 372.0 | 378.9 | 390.1 | 403.0 | 418.4 | 438.2 | 458.0 | 477.8 | 498.4 | 519.0 |
| 152.5° | 379.1 | 380.3 | 387.2 | 397.0 | 409.2 | 423.3 | 441.0 | 458.7 | 476.4 | 495.0 | 514.2 |
| 155°   | 392.7 | 393.6 | 398.7 | 408.2 | 417.6 | 430.5 | 445.1 | 459.7 | 474.3 | 489.0 | 505.2 |
| 157.5° | 404.1 | 404.9 | 409.1 | 417.2 | 424.8 | 435.7 | 448.1 | 459.7 | 470.4 | 482.8 | 496.9 |
| 160°   | 411.6 | 412.5 | 415.9 | 422.8 | 429.6 | 439.1 | 449.4 | 459.7 | 468.3 | 478.6 | 490.7 |
| 162.5° | 419.1 | 418.6 | 422.1 | 427.6 | 433.8 | 441.2 | 450.1 | 459.0 | 466.2 | 475.2 | 485.2 |
| 165°   | 427.9 | 427.1 | 428.8 | 433.9 | 438.2 | 443.4 | 451.2 | 457.2 | 462.3 | 468.3 | 476.0 |
| 167.5° | 435.1 | 434.1 | 435.7 | 438.9 | 442.0 | 445.3 | 451.0 | 456.0 | 458.3 | 462.3 | 467.1 |
| 170°   | 440.0 | 438.2 | 439.1 | 441.7 | 443.4 | 446.0 | 450.3 | 454.6 | 456.3 | 458.8 | 462.3 |
| 172.5° | 442.7 | 441.7 | 441.2 | 443.8 | 444.8 | 446.7 | 449.6 | 452.5 | 453.6 | 454.8 | 457.5 |
| 175°   | 446.0 | 445.1 | 444.3 | 446.0 | 446.0 | 446.9 | 448.6 | 450.3 | 449.4 | 450.3 | 451.2 |
| 177.5° | 447.5 | 446.2 | 445.5 | 446.9 | 446.9 | 446.9 | 447.5 | 448.9 | 447.5 | 446.9 | 447.5 |
| 180°   | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 910.4  | 910.4  | 910.4  | 910.4  | 910.4  | 910.4  | 910.4  | 910.4  |
| 2.5°   | 907.5  | 908.7  | 909.9  | 910.2  | 909.7  | 909.3  | 908.8  | 908.4  |
| 5°     | 904.7  | 906.5  | 908.3  | 909.0  | 908.7  | 908.4  | 908.1  | 907.8  |
| 7.5°   | 900.4  | 902.6  | 904.7  | 905.6  | 905.3  | 905.0  | 904.7  | 904.4  |
| 10°    | 896.6  | 899.1  | 901.4  | 902.4  | 902.1  | 901.8  | 901.6  | 901.2  |
| 12.5°  | 890.4  | 892.7  | 895.0  | 896.0  | 895.8  | 895.4  | 895.2  | 894.9  |
| 15°    | 878.8  | 881.4  | 884.1  | 885.3  | 884.9  | 884.7  | 884.3  | 884.1  |
| 17.5°  | 864.0  | 866.8  | 869.5  | 870.9  | 870.9  | 870.9  | 870.9  | 870.9  |
| 20°    | 852.2  | 855.5  | 858.7  | 860.3  | 860.3  | 860.3  | 860.3  | 860.3  |
| 22.5°  | 839.6  | 842.8  | 846.0  | 847.9  | 848.3  | 848.9  | 849.3  | 849.8  |
| 25°    | 819.8  | 823.4  | 826.9  | 829.1  | 830.0  | 830.9  | 831.7  | 832.6  |
| 27.5°  | 798.0  | 802.5  | 806.9  | 809.4  | 810.1  | 810.7  | 811.4  | 812.0  |
| 30°    | 782.6  | 787.3  | 792.0  | 794.8  | 795.7  | 796.5  | 797.5  | 798.3  |
| 32.5°  | 766.1  | 771.5  | 776.9  | 780.3  | 782.0  | 783.5  | 785.1  | 786.7  |
| 35°    | 742.6  | 749.1  | 755.5  | 759.7  | 761.8  | 763.9  | 765.9  | 767.9  |
| 37.5°  | 718.4  | 725.6  | 732.7  | 737.4  | 739.5  | 741.8  | 743.9  | 746.1  |
| 40°    | 701.4  | 709.0  | 716.6  | 721.8  | 724.4  | 727.0  | 729.7  | 732.4  |
| 42.5°  | 684.8  | 693.2  | 701.5  | 707.0  | 709.6  | 712.3  | 714.9  | 717.6  |
| 45°    | 659.4  | 668.6  | 677.6  | 683.6  | 686.6  | 689.5  | 692.4  | 695.3  |
| 47.5°  | 633.1  | 642.6  | 652.1  | 658.5  | 661.7  | 665.0  | 668.1  | 671.4  |
| 50°    | 615.0  | 625.0  | 635.0  | 641.6  | 644.8  | 648.0  | 651.3  | 654.4  |
| 52.5°  | 595.5  | 605.6  | 615.9  | 622.7  | 626.1  | 629.6  | 633.1  | 636.5  |
| 55°    | 566.1  | 576.6  | 587.2  | 594.3  | 598.1  | 602.0  | 605.8  | 609.6  |
| 57.5°  | 535.0  | 546.4  | 557.8  | 565.3  | 569.2  | 573.1  | 577.0  | 580.8  |
| 60°    | 514.4  | 525.6  | 536.7  | 544.4  | 548.5  | 552.6  | 556.7  | 560.8  |
| 62.5°  | 492.7  | 504.5  | 516.3  | 524.2  | 528.1  | 531.9  | 535.8  | 539.7  |
| 65°    | 459.5  | 471.5  | 483.5  | 491.5  | 495.2  | 499.0  | 502.9  | 506.7  |
| 67.5°  | 425.9  | 438.1  | 450.2  | 458.3  | 462.3  | 466.2  | 470.3  | 474.2  |
| 70°    | 402.6  | 415.2  | 427.8  | 435.8  | 439.4  | 442.9  | 446.4  | 450.0  |
| 72.5°  | 380.0  | 392.4  | 404.7  | 413.0  | 417.2  | 421.5  | 425.7  | 429.9  |
| 75°    | 345.9  | 358.4  | 371.1  | 379.3  | 383.1  | 386.9  | 390.7  | 394.5  |
| 77.5°  | 312.5  | 325.0  | 337.6  | 345.9  | 350.0  | 354.1  | 358.3  | 362.3  |
| 80°    | 289.8  | 302.2  | 314.5  | 322.7  | 326.8  | 330.9  | 335.0  | 339.1  |
| 82.5°  | 268.7  | 281.0  | 293.3  | 301.4  | 305.3  | 309.2  | 313.1  | 316.9  |
| 85°    | 238.4  | 250.7  | 263.0  | 271.2  | 275.3  | 279.5  | 283.5  | 287.7  |
| 87.5°  | 218.3  | 230.0  | 242.3  | 250.4  | 254.1  | 257.9  | 261.6  | 265.4  |
| 90°    | 225.2  | 235.1  | 248.6  | 257.1  | 260.6  | 264.1  | 267.6  | 271.1  |
| 92.5°  | 262.6  | 263.5  | 267.7  | 269.9  | 272.7  | 273.5  | 277.7  | 279.8  |
| 95°    | 399.2  | 357.9  | 332.9  | 321.4  | 313.7  | 310.4  | 311.3  | 315.6  |
| 97.5°  | 687.5  | 602.8  | 520.6  | 465.7  | 428.2  | 410.4  | 401.4  | 397.6  |
| 100°   | 938.2  | 842.5  | 735.6  | 638.7  | 570.6  | 536.8  | 515.1  | 502.9  |
| 102.5° | 1100.1 | 1086.7 | 1011.2 | 907.9  | 833.7  | 773.9  | 746.0  | 728.2  |
| 105°   | 1178.0 | 1285.4 | 1306.8 | 1285.2 | 1235.2 | 1185.2 | 1151.4 | 1142.6 |
| 107.5° | 1101.8 | 1257.9 | 1357.1 | 1405.2 | 1415.1 | 1415.5 | 1411.4 | 1398.5 |
| 110°   | 1038.9 | 1202.0 | 1321.4 | 1398.2 | 1438.4 | 1457.9 | 1468.9 | 1471.2 |





TEST NUMBER: P331452-935

CATALOG NUMBER: SA2XXDIP-C1005D925U935-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 980.6 | 1137.6 | 1264.6 | 1351.6 | 1406.2 | 1436.8 | 1454.6 | 1462.5 |
| 115°   | 907.1 | 1048.2 | 1169.6 | 1264.1 | 1328.4 | 1371.1 | 1396.6 | 1407.6 |
| 117.5° | 848.9 | 973.8  | 1084.6 | 1173.4 | 1238.6 | 1283.4 | 1309.9 | 1319.4 |
| 120°   | 818.3 | 933.1  | 1032.3 | 1116.3 | 1179.7 | 1223.2 | 1251.4 | 1263.3 |
| 122.5° | 792.9 | 898.5  | 992.7  | 1068.8 | 1125.5 | 1167.9 | 1192.9 | 1202.8 |
| 125°   | 755.0 | 851.4  | 935.0  | 1004.7 | 1057.1 | 1092.4 | 1116.6 | 1126.1 |
| 127.5° | 717.6 | 804.9  | 883.6  | 948.0  | 994.0  | 1027.2 | 1048.3 | 1056.4 |
| 130°   | 693.6 | 774.6  | 849.5  | 910.9  | 955.3  | 986.9  | 1006.4 | 1015.6 |
| 132.5° | 670.3 | 745.5  | 814.7  | 872.5  | 916.3  | 947.9  | 966.0  | 974.6  |
| 135°   | 637.8 | 700.7  | 763.5  | 815.9  | 855.2  | 885.9  | 903.7  | 909.5  |
| 137.5° | 610.2 | 663.1  | 713.5  | 759.1  | 794.8  | 821.2  | 836.7  | 843.9  |
| 140°   | 592.9 | 638.9  | 683.0  | 724.1  | 753.4  | 777.5  | 792.1  | 799.0  |
| 142.5° | 579.3 | 618.1  | 655.9  | 690.2  | 717.8  | 739.6  | 752.7  | 755.2  |
| 145°   | 561.2 | 591.3  | 619.7  | 646.3  | 668.3  | 684.4  | 694.5  | 698.5  |
| 147.5° | 547.7 | 570.2  | 591.2  | 609.9  | 627.7  | 640.1  | 646.6  | 648.8  |
| 150°   | 539.7 | 558.5  | 576.6  | 592.0  | 604.9  | 615.3  | 620.4  | 621.3  |
| 152.5° | 532.1 | 549.6  | 564.9  | 578.3  | 588.4  | 597.4  | 601.2  | 601.3  |
| 155°   | 521.6 | 535.4  | 548.2  | 557.7  | 567.1  | 573.2  | 576.6  | 574.9  |
| 157.5° | 509.4 | 520.9  | 531.8  | 539.2  | 545.8  | 550.8  | 552.3  | 552.3  |
| 160°   | 501.8 | 511.3  | 520.7  | 526.8  | 532.8  | 537.1  | 538.0  | 538.0  |
| 162.5° | 494.3 | 502.3  | 510.4  | 515.1  | 521.1  | 524.0  | 524.9  | 524.2  |
| 165°   | 482.9 | 489.0  | 495.0  | 498.4  | 501.8  | 505.2  | 505.2  | 504.4  |
| 167.5° | 472.1 | 476.7  | 480.9  | 484.0  | 485.5  | 487.4  | 487.2  | 486.2  |
| 170°   | 466.6 | 469.2  | 472.6  | 474.3  | 475.2  | 477.8  | 476.9  | 475.2  |
| 172.5° | 460.4 | 462.3  | 465.0  | 466.1  | 466.9  | 468.1  | 467.3  | 466.2  |
| 175°   | 453.7 | 454.6  | 455.5  | 456.3  | 456.3  | 457.2  | 456.3  | 454.6  |
| 177.5° | 448.9 | 448.9  | 449.6  | 449.6  | 449.6  | 449.6  | 448.9  | 447.5  |
| 180°   | 446.9 | 446.9  | 446.9  | 446.9  | 446.9  | 446.9  | 446.9  | 446.9  |

(END OF REPORT)