

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: P331327-927

Luminaire Tested: **SA2XXDIP-C485D1080U927-4F0-1E-UDD-F**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331327-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C485D1080U927-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1080 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4978.9 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

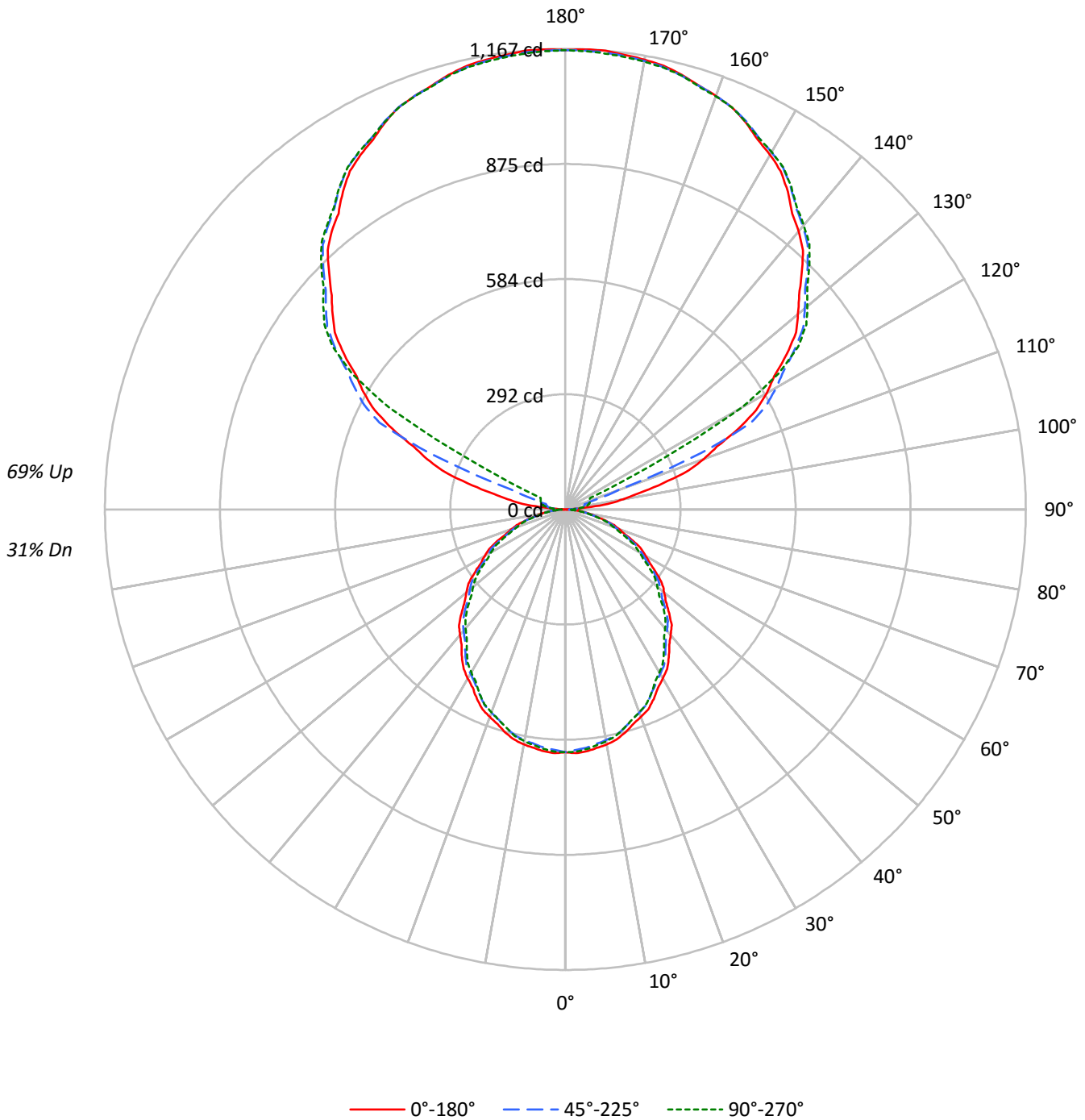
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331327-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P331327-927

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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   | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 |
| 1   | 94  | 89  | 86  | 82  | 84 | 81 | 77 | 74 | 64 | 62 | 60 | 49 | 47 | 46 | 35 | 34 | 33 | 26 |
| 2   | 85  | 78  | 72  | 67  | 76 | 70 | 65 | 61 | 56 | 52 | 49 | 43 | 40 | 38 | 30 | 29 | 28 | 22 |
| 3   | 78  | 69  | 61  | 56  | 70 | 62 | 56 | 51 | 49 | 45 | 42 | 38 | 35 | 32 | 27 | 25 | 24 | 19 |
| 4   | 71  | 61  | 53  | 47  | 64 | 55 | 48 | 43 | 44 | 39 | 35 | 34 | 30 | 28 | 24 | 22 | 20 | 16 |
| 5   | 65  | 54  | 46  | 40  | 58 | 49 | 42 | 37 | 39 | 34 | 30 | 30 | 27 | 24 | 22 | 19 | 18 | 14 |
| 6   | 60  | 48  | 40  | 35  | 54 | 44 | 37 | 32 | 35 | 30 | 26 | 27 | 24 | 21 | 20 | 17 | 16 | 12 |
| 7   | 55  | 43  | 36  | 30  | 50 | 39 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 18 | 18 | 16 | 14 | 11 |
| 8   | 51  | 39  | 32  | 27  | 46 | 36 | 29 | 25 | 29 | 24 | 20 | 22 | 19 | 16 | 16 | 14 | 12 | 10 |
| 9   | 48  | 36  | 28  | 24  | 43 | 33 | 26 | 22 | 26 | 22 | 18 | 21 | 17 | 15 | 15 | 13 | 11 | 9  |
| 10  | 44  | 33  | 26  | 21  | 40 | 30 | 24 | 19 | 24 | 20 | 16 | 19 | 16 | 13 | 14 | 12 | 10 | 8  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9935 | 9935 | 9935 |
| 5°  | 9972 | 9828 | 9887 |
| 10° | 9914 | 9729 | 9778 |
| 15° | 9790 | 9603 | 9593 |
| 20° | 9617 | 9414 | 9402 |
| 25° | 9444 | 9180 | 9180 |
| 30° | 9221 | 8968 | 8889 |
| 35° | 9014 | 8712 | 8584 |
| 40° | 8753 | 8456 | 8292 |
| 45° | 8499 | 8200 | 7996 |
| 50° | 8219 | 7935 | 7654 |
| 55° | 7927 | 7626 | 7344 |
| 60° | 7601 | 7259 | 6991 |
| 65° | 7255 | 6896 | 6575 |
| 70° | 6812 | 6453 | 6146 |
| 75° | 6201 | 5939 | 5795 |
| 80° | 5504 | 5337 | 5058 |
| 85° | 4483 | 4279 | 3835 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.9   | 1.2       |
| 10°-20°   | 162.8  | 3.3       |
| 20°-30°   | 239.3  | 4.8       |
| 30°-40°   | 278.0  | 5.6       |
| 40°-50°   | 277.7  | 5.6       |
| 50°-60°   | 242.1  | 4.9       |
| 60°-70°   | 179.0  | 3.6       |
| 70°-80°   | 101.4  | 2.0       |
| 80°-90°   | 30.1   | 0.6       |
| 90°-100°  | 38.8   | 0.8       |
| 100°-110° | 142.4  | 2.9       |
| 110°-120° | 380.6  | 7.6       |
| 120°-130° | 628.2  | 12.6      |
| 130°-140° | 668.1  | 13.4      |
| 140°-150° | 620.9  | 12.5      |
| 150°-160° | 499.2  | 10.0      |
| 160°-170° | 321.7  | 6.5       |
| 170°-180° | 110.7  | 2.2       |
| 0°-30°    | 459.9  | 9.2       |
| 0°-40°    | 737.9  | 14.8      |
| 0°-60°    | 1257.7 | 25.3      |
| 0°-90°    | 1568.3 | 31.5      |
| 90°-120°  | 561.7  | 11.3      |
| 90°-150°  | 2478.9 | 49.8      |
| 90°-180°  | 3411.0 | 68.5      |
| 0°-180°   | 4978.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 615  | 615   | 615  | 615   | 615  |      |
| 5°   | 615  | 613   | 606  | 611   | 610  | 58   |
| 15°  | 586  | 582   | 574  | 577   | 574  | 165  |
| 25°  | 530  | 525   | 515  | 516   | 515  | 244  |
| 35°  | 457  | 451   | 442  | 438   | 436  | 285  |
| 45°  | 372  | 368   | 359  | 353   | 350  | 287  |
| 55°  | 282  | 278   | 271  | 264   | 261  | 252  |
| 65°  | 190  | 186   | 180  | 175   | 172  | 188  |
| 75°  | 99   | 98    | 95   | 92    | 93   | 106  |
| 85°  | 24   | 24    | 23   | 21    | 21   | 28   |
| 90°  | 1    | 10    | 17   | 21    | 23   | 4    |
| 95°  | 55   | 29    | 33   | 37    | 36   | 67   |
| 105° | 256  | 267   | 51   | 60    | 64   | 274  |
| 115° | 484  | 499   | 520  | 148   | 69   | 477  |
| 125° | 685  | 696   | 712  | 717   | 720  | 610  |
| 135° | 847  | 860   | 868  | 876   | 875  | 654  |
| 145° | 983  | 983   | 996  | 1002  | 998  | 614  |
| 155° | 1082 | 1076  | 1085 | 1089  | 1083 | 498  |
| 165° | 1140 | 1136  | 1138 | 1143  | 1138 | 322  |
| 175° | 1166 | 1161  | 1162 | 1167  | 1160 | 111  |
| 180° | 1164 | 1164  | 1164 | 1164  | 1164 |      |



TEST NUMBER: P331327-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 |
| 2.5°   | 618.1 | 617.6 | 617.1 | 616.6 | 616.0 | 615.2 | 614.0 | 612.9 | 611.7 | 610.5 | 611.6 |
| 5°     | 615.3 | 614.7 | 614.3 | 613.7 | 613.2 | 612.2 | 610.8 | 609.3 | 607.8 | 606.4 | 607.4 |
| 7.5°   | 609.8 | 609.0 | 608.2 | 607.4 | 606.6 | 605.5 | 604.0 | 602.5 | 601.0 | 599.5 | 600.6 |
| 10°    | 604.7 | 603.7 | 602.8 | 601.9 | 600.9 | 599.7 | 598.1 | 596.6 | 595.0 | 593.4 | 594.5 |
| 12.5°  | 597.5 | 596.8 | 595.9 | 595.1 | 594.3 | 593.1 | 591.5 | 589.9 | 588.4 | 586.8 | 587.5 |
| 15°    | 585.7 | 584.9 | 584.2 | 583.4 | 582.6 | 581.3 | 579.6 | 577.9 | 576.2 | 574.5 | 575.0 |
| 17.5°  | 570.5 | 569.8 | 569.0 | 568.2 | 567.4 | 566.2 | 564.4 | 562.7 | 560.9 | 559.2 | 559.8 |
| 20°    | 559.7 | 558.9 | 558.1 | 557.3 | 556.5 | 555.2 | 553.3 | 551.5 | 549.7 | 547.9 | 548.3 |
| 22.5°  | 548.8 | 547.7 | 546.6 | 545.5 | 544.4 | 543.0 | 541.2 | 539.5 | 537.7 | 536.0 | 536.1 |
| 25°    | 530.1 | 529.0 | 528.0 | 527.0 | 525.9 | 524.3 | 522.0 | 519.8 | 517.5 | 515.3 | 515.6 |
| 27.5°  | 508.8 | 507.9 | 506.9 | 506.0 | 505.0 | 503.7 | 501.9 | 500.1 | 498.4 | 496.6 | 496.2 |
| 30°    | 494.6 | 493.5 | 492.5 | 491.5 | 490.4 | 488.9 | 486.9 | 485.0 | 483.0 | 481.0 | 480.6 |
| 32.5°  | 479.4 | 478.6 | 477.8 | 476.9 | 476.1 | 474.6 | 472.5 | 470.5 | 468.4 | 466.4 | 465.6 |
| 35°    | 457.3 | 456.0 | 454.7 | 453.4 | 452.1 | 450.4 | 448.3 | 446.2 | 444.0 | 442.0 | 441.2 |
| 37.5°  | 432.4 | 431.2 | 430.1 | 428.9 | 427.7 | 426.1 | 424.0 | 421.9 | 419.8 | 417.7 | 416.7 |
| 40°    | 415.3 | 414.2 | 413.2 | 412.2 | 411.1 | 409.6 | 407.4 | 405.4 | 403.2 | 401.2 | 400.0 |
| 42.5°  | 398.8 | 397.7 | 396.6 | 395.6 | 394.6 | 393.0 | 390.9 | 388.8 | 386.7 | 384.5 | 383.3 |
| 45°    | 372.2 | 371.2 | 370.3 | 369.4 | 368.4 | 367.0 | 365.0 | 363.1 | 361.1 | 359.1 | 357.7 |
| 47.5°  | 345.6 | 344.8 | 343.9 | 343.0 | 342.1 | 340.7 | 338.7 | 336.6 | 334.5 | 332.5 | 331.0 |
| 50°    | 327.2 | 326.5 | 325.8 | 325.2 | 324.6 | 323.3 | 321.5 | 319.6 | 317.7 | 315.9 | 314.1 |
| 52.5°  | 309.2 | 308.3 | 307.4 | 306.6 | 305.7 | 304.4 | 302.7 | 301.0 | 299.2 | 297.5 | 296.0 |
| 55°    | 281.6 | 280.8 | 280.0 | 279.2 | 278.5 | 277.3 | 275.7 | 274.1 | 272.5 | 270.9 | 269.4 |
| 57.5°  | 253.9 | 253.3 | 252.6 | 252.1 | 251.4 | 250.3 | 248.5 | 246.8 | 245.0 | 243.3 | 241.7 |
| 60°    | 235.4 | 235.0 | 234.4 | 233.9 | 233.4 | 232.2 | 230.4 | 228.5 | 226.6 | 224.8 | 223.4 |
| 62.5°  | 217.5 | 216.7 | 215.8 | 214.9 | 214.1 | 213.0 | 211.6 | 210.2 | 208.7 | 207.3 | 206.0 |
| 65°    | 189.9 | 189.1 | 188.3 | 187.5 | 186.8 | 185.7 | 184.4 | 183.1 | 181.7 | 180.5 | 179.3 |
| 67.5°  | 161.8 | 161.2 | 160.6 | 159.9 | 159.3 | 158.4 | 157.2 | 156.1 | 154.9 | 153.7 | 152.8 |
| 70°    | 144.3 | 143.9 | 143.3 | 142.8 | 142.3 | 141.4 | 140.2 | 139.0 | 137.8 | 136.7 | 135.8 |
| 72.5°  | 126.4 | 125.9 | 125.3 | 124.8 | 124.3 | 123.7 | 122.9 | 122.1 | 121.4 | 120.6 | 119.6 |
| 75°    | 99.4  | 99.1  | 98.9  | 98.6  | 98.3  | 97.9  | 97.2  | 96.6  | 95.9  | 95.2  | 94.4  |
| 77.5°  | 75.3  | 74.8  | 74.4  | 73.9  | 73.4  | 73.1  | 72.9  | 72.6  | 72.3  | 72.1  | 71.7  |
| 80°    | 59.2  | 59.0  | 58.9  | 58.8  | 58.6  | 58.5  | 58.1  | 57.9  | 57.7  | 57.4  | 57.0  |
| 82.5°  | 44.0  | 44.0  | 44.0  | 44.0  | 43.9  | 43.8  | 43.6  | 43.5  | 43.3  | 43.2  | 42.7  |
| 85°    | 24.2  | 24.2  | 24.0  | 23.8  | 23.8  | 23.6  | 23.4  | 23.4  | 23.2  | 23.1  | 22.7  |
| 87.5°  | 8.7   | 8.9   | 9.1   | 9.3   | 9.5   | 9.7   | 9.7   | 9.8   | 9.9   | 10.0  | 9.9   |
| 90°    | 0.9   | 2.9   | 5.0   | 7.1   | 9.1   | 10.9  | 12.4  | 13.9  | 15.4  | 16.9  | 17.7  |
| 92.5°  | 17.0  | 16.8  | 16.6  | 16.5  | 16.2  | 16.6  | 17.3  | 18.1  | 18.8  | 19.6  | 20.0  |
| 95°    | 54.7  | 48.6  | 42.4  | 36.2  | 30.0  | 27.6  | 28.9  | 30.3  | 31.5  | 32.9  | 33.7  |
| 97.5°  | 108.6 | 91.3  | 73.8  | 56.4  | 39.1  | 31.8  | 34.9  | 37.9  | 41.0  | 44.0  | 44.7  |
| 100°   | 149.1 | 123.4 | 97.8  | 72.2  | 46.5  | 35.3  | 38.4  | 41.7  | 44.8  | 48.0  | 49.5  |
| 102.5° | 193.5 | 188.1 | 182.7 | 177.2 | 171.8 | 155.8 | 129.2 | 102.6 | 76.0  | 49.4  | 51.3  |
| 105°   | 256.0 | 261.7 | 267.2 | 272.8 | 278.5 | 255.7 | 204.6 | 153.5 | 102.4 | 51.3  | 53.4  |
| 107.5° | 327.3 | 331.8 | 336.3 | 340.8 | 345.4 | 317.0 | 255.7 | 194.5 | 133.2 | 71.9  | 69.8  |
| 110°   | 373.0 | 377.0 | 381.0 | 384.8 | 388.8 | 363.7 | 309.6 | 255.6 | 201.5 | 147.3 | 128.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 416.2  | 419.7  | 423.1  | 426.6  | 430.1  | 425.2  | 411.8  | 398.5  | 385.1  | 371.7  | 303.5  |
| 115°   | 484.3  | 487.4  | 490.6  | 493.8  | 496.9  | 500.9  | 505.6  | 510.2  | 514.9  | 519.6  | 432.9  |
| 117.5° | 545.0  | 548.6  | 552.2  | 555.7  | 559.3  | 562.6  | 565.9  | 569.1  | 572.3  | 575.5  | 554.5  |
| 120°   | 589.5  | 592.3  | 595.1  | 597.9  | 600.7  | 603.8  | 607.2  | 610.5  | 613.9  | 617.3  | 619.5  |
| 122.5° | 627.2  | 630.2  | 633.1  | 636.1  | 639.1  | 642.4  | 646.0  | 649.7  | 653.4  | 657.0  | 658.4  |
| 125°   | 684.7  | 687.1  | 689.5  | 692.0  | 694.3  | 697.4  | 700.9  | 704.5  | 708.1  | 711.6  | 712.9  |
| 127.5° | 736.7  | 739.4  | 742.1  | 744.8  | 747.5  | 750.1  | 752.8  | 755.4  | 758.1  | 760.8  | 762.7  |
| 130°   | 769.7  | 772.7  | 775.7  | 778.7  | 781.6  | 784.2  | 786.2  | 788.3  | 790.4  | 792.4  | 794.5  |
| 132.5° | 803.4  | 806.0  | 808.5  | 811.0  | 813.6  | 815.9  | 817.9  | 820.0  | 822.0  | 824.1  | 825.9  |
| 135°   | 847.2  | 850.2  | 853.2  | 856.2  | 859.1  | 861.5  | 863.2  | 864.8  | 866.6  | 868.2  | 870.1  |
| 137.5° | 891.4  | 893.6  | 895.6  | 897.8  | 899.8  | 901.8  | 903.8  | 905.7  | 907.6  | 909.5  | 911.3  |
| 140°   | 920.4  | 921.9  | 923.4  | 925.0  | 926.5  | 928.2  | 930.3  | 932.3  | 934.4  | 936.4  | 938.1  |
| 142.5° | 944.7  | 946.0  | 947.4  | 948.7  | 950.1  | 952.0  | 954.3  | 956.6  | 959.0  | 961.4  | 962.9  |
| 145°   | 982.8  | 982.5  | 982.4  | 982.2  | 982.0  | 983.5  | 986.7  | 989.8  | 993.1  | 996.2  | 997.5  |
| 147.5° | 1016.0 | 1015.3 | 1014.5 | 1013.8 | 1013.1 | 1014.3 | 1017.5 | 1020.6 | 1023.7 | 1026.9 | 1027.9 |
| 150°   | 1037.5 | 1036.2 | 1034.9 | 1033.6 | 1032.3 | 1033.1 | 1036.1 | 1039.1 | 1042.1 | 1045.0 | 1046.2 |
| 152.5° | 1055.7 | 1054.2 | 1052.7 | 1051.3 | 1049.9 | 1050.5 | 1053.4 | 1056.2 | 1059.1 | 1061.9 | 1063.0 |
| 155°   | 1082.1 | 1080.5 | 1078.8 | 1077.1 | 1075.4 | 1075.7 | 1077.9 | 1080.1 | 1082.4 | 1084.7 | 1085.8 |
| 157.5° | 1102.9 | 1101.5 | 1100.0 | 1098.6 | 1097.2 | 1097.3 | 1098.8 | 1100.3 | 1101.9 | 1103.5 | 1104.8 |
| 160°   | 1115.0 | 1113.9 | 1112.7 | 1111.6 | 1110.5 | 1110.5 | 1111.6 | 1112.7 | 1113.9 | 1115.0 | 1116.1 |
| 162.5° | 1125.8 | 1124.7 | 1123.5 | 1122.4 | 1121.3 | 1121.2 | 1122.1 | 1123.2 | 1124.1 | 1125.1 | 1126.3 |
| 165°   | 1140.3 | 1139.1 | 1138.0 | 1136.9 | 1135.8 | 1135.4 | 1136.0 | 1136.6 | 1137.2 | 1137.7 | 1139.0 |
| 167.5° | 1151.0 | 1149.9 | 1148.7 | 1147.6 | 1146.5 | 1146.2 | 1146.8 | 1147.2 | 1147.8 | 1148.3 | 1149.6 |
| 170°   | 1157.1 | 1156.0 | 1154.8 | 1153.7 | 1152.6 | 1152.2 | 1152.6 | 1152.9 | 1153.3 | 1153.7 | 1155.0 |
| 172.5° | 1161.1 | 1160.0 | 1158.9 | 1157.8 | 1156.7 | 1156.3 | 1156.7 | 1157.0 | 1157.4 | 1157.8 | 1159.0 |
| 175°   | 1166.3 | 1165.1 | 1163.7 | 1162.4 | 1161.1 | 1160.6 | 1161.0 | 1161.4 | 1161.7 | 1162.1 | 1163.5 |
| 177.5° | 1167.2 | 1166.2 | 1165.1 | 1164.0 | 1163.0 | 1162.5 | 1162.7 | 1162.8 | 1163.0 | 1163.2 | 1164.2 |
| 180°   | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 |
| 2.5°   | 612.7 | 613.7 | 614.7 | 615.2 | 615.0 | 614.7 | 614.6 | 614.3 |
| 5°     | 608.6 | 609.6 | 610.6 | 611.0 | 610.8 | 610.5 | 610.2 | 610.0 |
| 7.5°   | 601.7 | 602.7 | 603.8 | 604.1 | 603.9 | 603.6 | 603.2 | 603.0 |
| 10°    | 595.5 | 596.6 | 597.6 | 597.9 | 597.5 | 597.1 | 596.8 | 596.4 |
| 12.5°  | 588.3 | 589.0 | 589.7 | 589.9 | 589.6 | 589.4 | 589.1 | 588.7 |
| 15°    | 575.5 | 576.1 | 576.6 | 576.5 | 575.8 | 575.2 | 574.6 | 573.9 |
| 17.5°  | 560.4 | 561.0 | 561.7 | 561.6 | 560.9 | 560.4 | 559.8 | 559.1 |
| 20°    | 548.7 | 549.1 | 549.5 | 549.4 | 548.8 | 548.3 | 547.8 | 547.2 |
| 22.5°  | 536.1 | 536.2 | 536.3 | 536.2 | 535.9 | 535.6 | 535.3 | 535.0 |
| 25°    | 515.9 | 516.1 | 516.3 | 516.3 | 516.1 | 515.9 | 515.6 | 515.3 |
| 27.5°  | 495.8 | 495.4 | 495.0 | 494.6 | 493.9 | 493.3 | 492.7 | 492.0 |
| 30°    | 480.2 | 479.8 | 479.4 | 479.0 | 478.4 | 477.9 | 477.4 | 476.8 |
| 32.5°  | 464.9 | 464.2 | 463.5 | 462.9 | 462.3 | 461.8 | 461.3 | 460.7 |
| 35°    | 440.4 | 439.6 | 438.8 | 438.1 | 437.4 | 436.7 | 436.1 | 435.5 |
| 37.5°  | 415.7 | 414.8 | 413.8 | 413.0 | 412.3 | 411.7 | 411.1 | 410.5 |
| 40°    | 398.8 | 397.6 | 396.4 | 395.5 | 395.0 | 394.5 | 394.0 | 393.4 |
| 42.5°  | 382.0 | 380.7 | 379.4 | 378.4 | 377.6 | 376.9 | 376.2 | 375.4 |
| 45°    | 356.2 | 354.8 | 353.3 | 352.4 | 351.8 | 351.3 | 350.8 | 350.2 |
| 47.5°  | 329.5 | 327.9 | 326.4 | 325.3 | 324.5 | 323.8 | 323.0 | 322.2 |
| 50°    | 312.3 | 310.4 | 308.6 | 307.3 | 306.7 | 306.0 | 305.3 | 304.7 |
| 52.5°  | 294.5 | 292.9 | 291.4 | 290.2 | 289.3 | 288.4 | 287.6 | 286.7 |
| 55°    | 267.8 | 266.3 | 264.7 | 263.6 | 262.8 | 262.2 | 261.6 | 260.9 |
| 57.5°  | 240.2 | 238.6 | 237.1 | 236.1 | 235.5 | 235.0 | 234.6 | 234.0 |
| 60°    | 221.9 | 220.5 | 219.0 | 218.1 | 217.7 | 217.3 | 216.9 | 216.5 |
| 62.5°  | 204.6 | 203.3 | 201.9 | 201.1 | 200.5 | 200.0 | 199.6 | 199.0 |
| 65°    | 178.1 | 176.9 | 175.7 | 174.8 | 174.1 | 173.5 | 172.9 | 172.1 |
| 67.5°  | 151.9 | 150.9 | 150.0 | 149.3 | 148.8 | 148.2 | 147.7 | 147.2 |
| 70°    | 134.8 | 133.9 | 133.0 | 132.3 | 131.7 | 131.2 | 130.7 | 130.2 |
| 72.5°  | 118.7 | 117.8 | 116.9 | 116.2 | 115.8 | 115.3 | 114.9 | 114.5 |
| 75°    | 93.6  | 92.9  | 92.1  | 91.8  | 92.1  | 92.4  | 92.6  | 92.9  |
| 77.5°  | 71.3  | 70.9  | 70.5  | 70.1  | 69.7  | 69.4  | 69.0  | 68.6  |
| 80°    | 56.6  | 56.2  | 55.8  | 55.5  | 55.2  | 55.0  | 54.7  | 54.4  |
| 82.5°  | 42.2  | 41.7  | 41.2  | 40.9  | 40.9  | 40.8  | 40.7  | 40.7  |
| 85°    | 22.3  | 21.9  | 21.5  | 21.2  | 21.1  | 21.0  | 20.8  | 20.7  |
| 87.5°  | 9.7   | 9.6   | 9.5   | 9.4   | 9.3   | 9.3   | 9.3   | 9.3   |
| 90°    | 18.7  | 19.6  | 20.6  | 21.2  | 21.6  | 22.0  | 22.3  | 22.7  |
| 92.5°  | 20.5  | 21.0  | 21.5  | 21.9  | 22.1  | 22.3  | 22.5  | 22.7  |
| 95°    | 34.7  | 35.6  | 36.6  | 37.0  | 36.8  | 36.6  | 36.4  | 36.2  |
| 97.5°  | 45.5  | 46.2  | 47.0  | 47.5  | 47.7  | 47.9  | 48.1  | 48.3  |
| 100°   | 51.0  | 52.5  | 54.0  | 54.9  | 55.3  | 55.7  | 56.1  | 56.4  |
| 102.5° | 53.2  | 55.2  | 57.1  | 58.4  | 58.9  | 59.4  | 60.0  | 60.4  |
| 105°   | 55.5  | 57.5  | 59.6  | 61.0  | 61.8  | 62.5  | 63.2  | 64.0  |
| 107.5° | 67.7  | 65.6  | 63.5  | 62.9  | 63.6  | 64.3  | 65.1  | 65.8  |
| 110°   | 110.0 | 91.3  | 72.5  | 63.5  | 64.2  | 65.0  | 65.8  | 66.5  |





TEST NUMBER: P331327-927

CATALOG NUMBER: SA2XXDIP-C485D1080U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 235.2  | 166.9  | 98.6   | 64.8   | 65.4   | 66.0   | 66.6   | 67.2   |
| 115°   | 346.3  | 259.7  | 173.0  | 122.9  | 109.5  | 96.0   | 82.5   | 69.1   |
| 117.5° | 533.6  | 512.6  | 491.7  | 459.1  | 414.8  | 370.5  | 326.2  | 281.9  |
| 120°   | 621.8  | 624.0  | 626.3  | 614.7  | 589.5  | 564.2  | 538.9  | 513.7  |
| 122.5° | 659.7  | 661.1  | 662.4  | 660.6  | 655.8  | 650.9  | 645.9  | 641.0  |
| 125°   | 714.2  | 715.5  | 716.8  | 717.8  | 718.4  | 718.9  | 719.5  | 720.0  |
| 127.5° | 764.6  | 766.5  | 768.4  | 769.4  | 769.5  | 769.7  | 769.8  | 769.8  |
| 130°   | 796.5  | 798.6  | 800.7  | 801.6  | 801.5  | 801.2  | 801.1  | 800.9  |
| 132.5° | 827.6  | 829.4  | 831.2  | 831.9  | 831.7  | 831.6  | 831.4  | 831.2  |
| 135°   | 872.0  | 873.9  | 875.7  | 876.5  | 876.1  | 875.7  | 875.4  | 875.0  |
| 137.5° | 913.1  | 915.0  | 916.8  | 917.4  | 916.8  | 916.2  | 915.5  | 914.9  |
| 140°   | 939.8  | 941.5  | 943.2  | 943.6  | 942.6  | 941.7  | 940.7  | 939.8  |
| 142.5° | 964.4  | 966.0  | 967.5  | 967.8  | 966.9  | 965.9  | 965.0  | 964.1  |
| 145°   | 998.9  | 1000.1 | 1001.5 | 1001.6 | 1000.8 | 999.8  | 998.9  | 997.9  |
| 147.5° | 1028.8 | 1029.8 | 1030.8 | 1030.9 | 1030.1 | 1029.3 | 1028.5 | 1027.7 |
| 150°   | 1047.3 | 1048.5 | 1049.6 | 1049.6 | 1048.7 | 1047.8 | 1046.9 | 1045.9 |
| 152.5° | 1064.1 | 1065.3 | 1066.4 | 1066.4 | 1065.1 | 1063.9 | 1062.6 | 1061.4 |
| 155°   | 1086.9 | 1088.1 | 1089.2 | 1088.9 | 1087.4 | 1086.0 | 1084.5 | 1083.0 |
| 157.5° | 1106.0 | 1107.3 | 1108.6 | 1108.5 | 1107.1 | 1105.6 | 1104.1 | 1102.6 |
| 160°   | 1117.2 | 1118.3 | 1119.4 | 1119.4 | 1118.1 | 1116.7 | 1115.5 | 1114.1 |
| 162.5° | 1127.6 | 1128.9 | 1130.2 | 1130.0 | 1128.4 | 1126.8 | 1125.1 | 1123.6 |
| 165°   | 1140.3 | 1141.6 | 1143.0 | 1143.0 | 1141.6 | 1140.3 | 1139.0 | 1137.7 |
| 167.5° | 1151.0 | 1152.2 | 1153.6 | 1153.3 | 1151.7 | 1150.0 | 1148.3 | 1146.6 |
| 170°   | 1156.3 | 1157.6 | 1159.0 | 1158.7 | 1157.1 | 1155.4 | 1153.7 | 1152.0 |
| 172.5° | 1160.4 | 1161.7 | 1163.0 | 1162.8 | 1161.1 | 1159.4 | 1157.8 | 1156.0 |
| 175°   | 1164.7 | 1166.1 | 1167.4 | 1167.1 | 1165.2 | 1163.3 | 1161.5 | 1159.6 |
| 177.5° | 1165.2 | 1166.3 | 1167.4 | 1167.2 | 1165.9 | 1164.5 | 1163.2 | 1161.8 |
| 180°   | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 |

(END OF REPORT)