

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: P331316-840

Luminaire Tested: **SA2XXDIP-C485D925U840-4F0-1E-UDD-D1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331316-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C485D925U840-4F0-1E-UDD-D1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5329.5 lumens  
Efficiency: N/A  
Efficacy: 119.8 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: Semi-Indirect

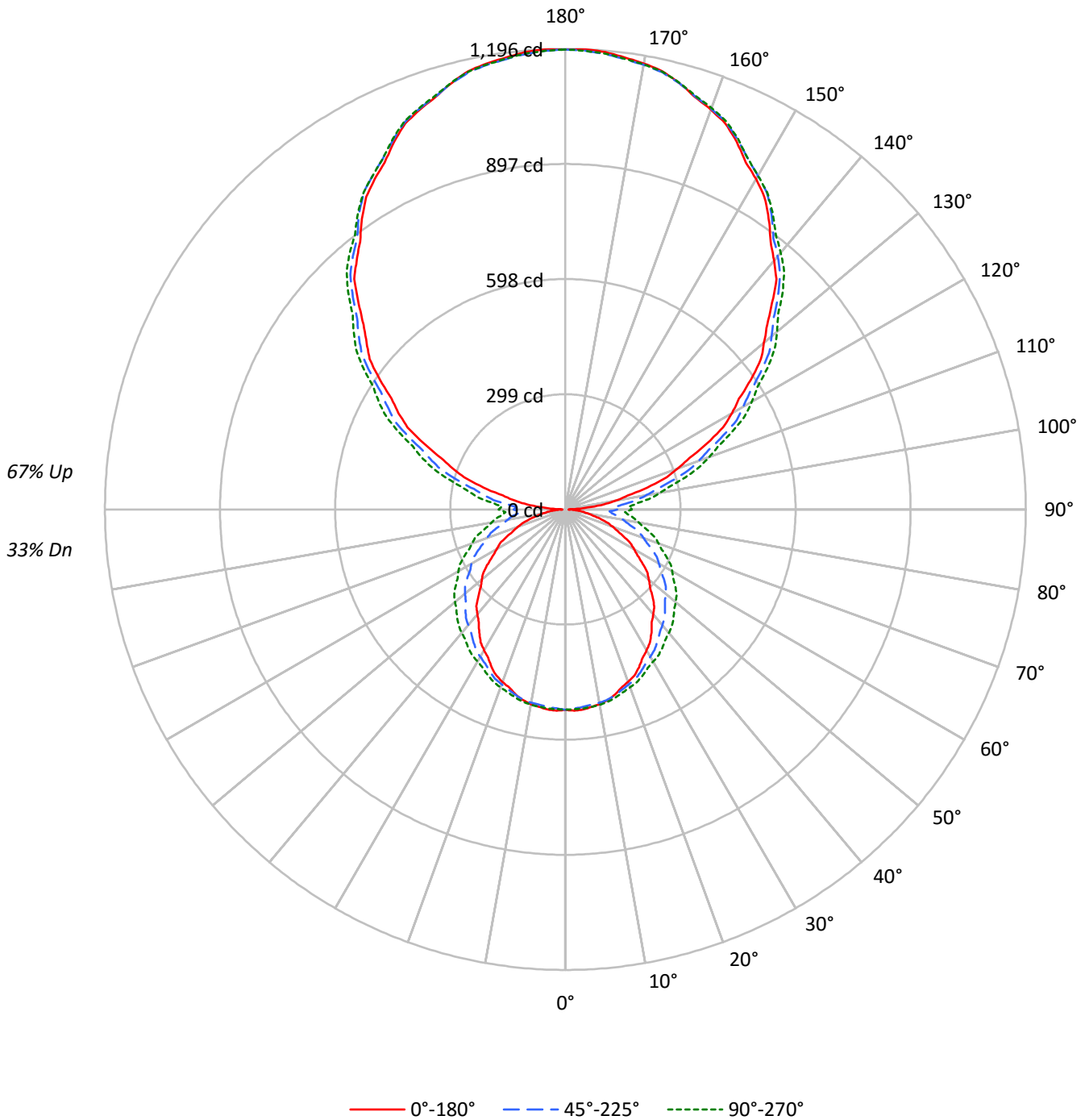
Input Watts (W): 44.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331316-840

CATALOG NUMBER: SA2XXDIP-C485D925U840-4F0-1E-UDD-D1

### Luminous Intensity Polar Plot





TEST NUMBER: P331316-840

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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 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 33 |
| 1   | 93  | 88  | 84  | 80  | 84 | 80 | 76 | 73 | 63 | 61 | 58 | 48 | 47 | 45 | 34 | 33 | 32 | 26 |
| 2   | 84  | 77  | 70  | 65  | 75 | 69 | 64 | 59 | 55 | 51 | 48 | 42 | 39 | 37 | 30 | 28 | 26 | 21 |
| 3   | 77  | 67  | 59  | 53  | 69 | 60 | 54 | 49 | 48 | 43 | 39 | 37 | 33 | 31 | 26 | 24 | 22 | 17 |
| 4   | 70  | 59  | 51  | 45  | 62 | 53 | 46 | 41 | 42 | 37 | 33 | 32 | 29 | 26 | 23 | 21 | 19 | 14 |
| 5   | 64  | 52  | 44  | 38  | 57 | 47 | 40 | 35 | 38 | 32 | 28 | 29 | 25 | 22 | 21 | 18 | 16 | 12 |
| 6   | 59  | 47  | 39  | 33  | 53 | 42 | 35 | 30 | 34 | 28 | 25 | 26 | 22 | 19 | 19 | 16 | 14 | 11 |
| 7   | 54  | 42  | 34  | 28  | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 23 | 20 | 17 | 17 | 14 | 12 | 9  |
| 8   | 50  | 38  | 30  | 25  | 45 | 34 | 28 | 23 | 28 | 23 | 19 | 21 | 18 | 15 | 15 | 13 | 11 | 8  |
| 9   | 47  | 34  | 27  | 22  | 42 | 31 | 25 | 20 | 25 | 20 | 17 | 20 | 16 | 13 | 14 | 12 | 10 | 8  |
| 10  | 43  | 31  | 24  | 20  | 39 | 29 | 22 | 18 | 23 | 18 | 15 | 18 | 14 | 12 | 13 | 11 | 9  | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8402 | 8402 | 8402 |
| 5°  | 8443 | 8088 | 8058 |
| 10° | 8390 | 7850 | 7761 |
| 15° | 8275 | 7596 | 7448 |
| 20° | 8129 | 7324 | 7148 |
| 25° | 7984 | 7062 | 6875 |
| 30° | 7780 | 6794 | 6601 |
| 35° | 7575 | 6536 | 6409 |
| 40° | 7360 | 6315 | 6215 |
| 45° | 7153 | 6118 | 6051 |
| 50° | 6934 | 5937 | 5888 |
| 55° | 6700 | 5744 | 5722 |
| 60° | 6417 | 5546 | 5546 |
| 65° | 6122 | 5313 | 5339 |
| 70° | 5796 | 5061 | 5115 |
| 75° | 5371 | 4816 | 4908 |
| 80° | 4707 | 4564 | 4698 |
| 85° | 4070 | 4346 | 4535 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.3   | 0.9       |
| 10°-20°   | 141.4  | 2.7       |
| 20°-30°   | 214.3  | 4.0       |
| 30°-40°   | 261.0  | 4.9       |
| 40°-50°   | 280.8  | 5.3       |
| 50°-60°   | 272.7  | 5.1       |
| 60°-70°   | 238.1  | 4.5       |
| 70°-80°   | 183.3  | 3.4       |
| 80°-90°   | 127.8  | 2.4       |
| 90°-100°  | 160.4  | 3.0       |
| 100°-110° | 296.9  | 5.6       |
| 110°-120° | 442.6  | 8.3       |
| 120°-130° | 551.1  | 10.3      |
| 130°-140° | 602.5  | 11.3      |
| 140°-150° | 583.1  | 10.9      |
| 150°-160° | 487.7  | 9.2       |
| 160°-170° | 323.5  | 6.1       |
| 170°-180° | 113.0  | 2.1       |
| 0°-30°    | 405.0  | 7.6       |
| 0°-40°    | 666.0  | 12.5      |
| 0°-60°    | 1219.4 | 22.9      |
| 0°-90°    | 1768.6 | 33.2      |
| 90°-120°  | 899.9  | 16.9      |
| 90°-150°  | 2636.7 | 49.5      |
| 90°-180°  | 3561.0 | 66.8      |
| 0°-180°   | 5329.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 520  | 520   | 520  | 520   | 520  |      |
| 5°   | 522  | 520   | 515  | 519   | 519  | 49   |
| 15°  | 498  | 499   | 499  | 506   | 505  | 140  |
| 25°  | 452  | 458   | 464  | 473   | 476  | 208  |
| 35°  | 390  | 403   | 417  | 433   | 439  | 244  |
| 45°  | 320  | 340   | 367  | 389   | 398  | 247  |
| 55°  | 245  | 273   | 311  | 338   | 348  | 219  |
| 65°  | 167  | 205   | 249  | 279   | 290  | 166  |
| 75°  | 93   | 135   | 183  | 214   | 226  | 98   |
| 85°  | 27   | 74    | 122  | 153   | 164  | 29   |
| 90°  | 9    | 65    | 135  | 162   | 173  | 8    |
| 95°  | 58   | 104   | 151  | 179   | 187  | 65   |
| 105° | 220  | 246   | 287  | 314   | 323  | 233  |
| 115° | 406  | 421   | 452  | 473   | 479  | 401  |
| 125° | 588  | 598   | 618  | 635   | 641  | 526  |
| 135° | 760  | 771   | 780  | 794   | 798  | 587  |
| 145° | 921  | 928   | 934  | 940   | 940  | 575  |
| 155° | 1053 | 1056  | 1059 | 1064  | 1061 | 485  |
| 165° | 1146 | 1145  | 1145 | 1151  | 1147 | 323  |
| 175° | 1192 | 1189  | 1187 | 1194  | 1188 | 113  |
| 180° | 1194 | 1194  | 1194 | 1194  | 1194 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 |
| 2.5°   | 523.4 | 523.0 | 522.6 | 522.2 | 521.8 | 521.1 | 520.2 | 519.3 | 518.4 | 517.4 | 518.1 |
| 5°     | 521.9 | 521.4 | 520.9 | 520.4 | 519.9 | 519.2 | 518.2 | 517.2 | 516.1 | 515.1 | 516.1 |
| 7.5°   | 517.3 | 516.8 | 516.5 | 516.2 | 515.9 | 515.3 | 514.5 | 513.8 | 513.0 | 512.2 | 513.4 |
| 10°    | 513.6 | 513.3 | 512.9 | 512.6 | 512.3 | 511.9 | 511.4 | 510.9 | 510.4 | 509.9 | 511.2 |
| 12.5°  | 507.6 | 507.7 | 507.8 | 507.8 | 507.9 | 507.7 | 507.4 | 507.0 | 506.5 | 506.2 | 507.6 |
| 15°    | 497.8 | 498.1 | 498.5 | 498.8 | 499.1 | 499.3 | 499.3 | 499.3 | 499.3 | 499.3 | 500.8 |
| 17.5°  | 485.1 | 485.8 | 486.6 | 487.3 | 488.0 | 488.6 | 489.1 | 489.6 | 490.2 | 490.7 | 492.2 |
| 20°    | 476.7 | 477.5 | 478.4 | 479.2 | 480.0 | 480.8 | 481.4 | 482.1 | 482.8 | 483.4 | 485.2 |
| 22.5°  | 467.6 | 468.6 | 469.6 | 470.5 | 471.5 | 472.4 | 473.4 | 474.3 | 475.2 | 476.3 | 478.1 |
| 25°    | 452.5 | 453.7 | 454.8 | 456.1 | 457.2 | 458.6 | 460.1 | 461.6 | 463.1 | 464.5 | 466.6 |
| 27.5°  | 434.4 | 436.4 | 438.3 | 440.2 | 442.0 | 443.9 | 445.7 | 447.5 | 449.2 | 451.0 | 453.5 |
| 30°    | 422.3 | 424.5 | 426.7 | 428.9 | 431.1 | 433.2 | 435.5 | 437.6 | 439.8 | 441.9 | 444.6 |
| 32.5°  | 409.1 | 411.5 | 413.9 | 416.5 | 418.9 | 421.4 | 423.9 | 426.6 | 429.1 | 431.7 | 434.7 |
| 35°    | 389.9 | 392.7 | 395.7 | 398.5 | 401.3 | 404.3 | 407.5 | 410.7 | 413.8 | 417.1 | 420.7 |
| 37.5°  | 369.1 | 372.4 | 375.7 | 379.0 | 382.2 | 386.0 | 390.1 | 394.2 | 398.3 | 402.4 | 406.6 |
| 40°    | 355.3 | 358.9 | 362.6 | 366.3 | 370.0 | 374.1 | 378.6 | 383.1 | 387.7 | 392.2 | 396.6 |
| 42.5°  | 341.9 | 345.7 | 349.3 | 353.0 | 356.7 | 361.1 | 366.4 | 371.5 | 376.8 | 381.9 | 386.7 |
| 45°    | 319.8 | 324.3 | 328.8 | 333.4 | 337.9 | 343.1 | 348.9 | 354.8 | 360.7 | 366.6 | 371.7 |
| 47.5°  | 297.9 | 302.9 | 307.8 | 312.7 | 317.6 | 323.6 | 330.4 | 337.3 | 344.2 | 351.0 | 356.5 |
| 50°    | 282.9 | 288.0 | 293.3 | 298.4 | 303.6 | 309.9 | 317.5 | 325.1 | 332.6 | 340.1 | 345.9 |
| 52.5°  | 268.3 | 273.8 | 279.2 | 284.8 | 290.2 | 296.9 | 304.9 | 312.8 | 320.7 | 328.7 | 334.5 |
| 55°    | 245.1 | 251.2 | 257.2 | 263.2 | 269.2 | 276.6 | 285.4 | 294.1 | 302.8 | 311.4 | 317.5 |
| 57.5°  | 222.2 | 229.0 | 235.8 | 242.6 | 249.4 | 257.2 | 266.1 | 275.0 | 283.9 | 292.8 | 299.3 |
| 60°    | 205.9 | 213.1 | 220.4 | 227.5 | 234.7 | 243.1 | 252.7 | 262.2 | 271.8 | 281.3 | 287.7 |
| 62.5°  | 191.4 | 198.8 | 206.4 | 213.9 | 221.4 | 229.8 | 239.3 | 248.9 | 258.5 | 268.0 | 274.8 |
| 65°    | 167.4 | 175.6 | 183.9 | 192.1 | 200.3 | 209.3 | 219.2 | 229.1 | 239.0 | 248.9 | 255.8 |
| 67.5°  | 145.4 | 154.0 | 162.6 | 171.2 | 179.8 | 189.0 | 199.2 | 209.3 | 219.4 | 229.5 | 236.5 |
| 70°    | 129.8 | 138.5 | 147.1 | 155.8 | 164.6 | 174.1 | 184.5 | 194.9 | 205.3 | 215.7 | 222.9 |
| 72.5°  | 115.2 | 124.2 | 133.2 | 142.2 | 151.2 | 161.0 | 171.5 | 182.0 | 192.5 | 203.0 | 210.2 |
| 75°    | 92.8  | 102.2 | 111.5 | 120.9 | 130.3 | 140.4 | 151.1 | 161.8 | 172.6 | 183.3 | 190.5 |
| 77.5°  | 71.1  | 80.9  | 90.7  | 100.5 | 110.4 | 120.7 | 131.6 | 142.5 | 153.4 | 164.3 | 171.5 |
| 80°    | 56.6  | 66.8  | 77.1  | 87.3  | 97.5  | 108.1 | 119.0 | 129.8 | 140.7 | 151.6 | 158.6 |
| 82.5°  | 44.5  | 54.6  | 64.6  | 74.7  | 84.8  | 95.4  | 106.4 | 117.4 | 128.5 | 139.6 | 146.5 |
| 85°    | 27.2  | 37.6  | 48.0  | 58.4  | 68.7  | 79.3  | 90.0  | 100.7 | 111.5 | 122.2 | 129.3 |
| 87.5°  | 14.9  | 25.5  | 36.1  | 46.6  | 57.1  | 68.2  | 79.9  | 91.6  | 103.3 | 115.0 | 121.8 |
| 90°    | 8.6   | 21.0  | 33.3  | 45.7  | 58.2  | 72.2  | 87.9  | 103.5 | 119.2 | 134.8 | 141.1 |
| 92.5°  | 24.8  | 35.9  | 47.0  | 58.0  | 69.0  | 80.2  | 91.7  | 103.2 | 114.7 | 126.1 | 132.8 |
| 95°    | 58.5  | 68.6  | 78.7  | 88.8  | 98.9  | 109.2 | 119.8 | 130.3 | 140.8 | 151.3 | 157.6 |
| 97.5°  | 101.0 | 110.0 | 119.0 | 127.9 | 136.9 | 146.6 | 157.1 | 167.6 | 178.1 | 188.6 | 194.9 |
| 100°   | 133.3 | 141.3 | 149.3 | 157.2 | 165.2 | 174.3 | 184.3 | 194.4 | 204.4 | 214.5 | 220.7 |
| 102.5° | 166.5 | 173.6 | 180.8 | 187.8 | 194.9 | 203.5 | 213.4 | 223.4 | 233.4 | 243.4 | 249.5 |
| 105°   | 220.5 | 226.0 | 231.6 | 237.0 | 242.6 | 249.9 | 259.1 | 268.2 | 277.4 | 286.6 | 292.9 |
| 107.5° | 275.5 | 280.4 | 285.3 | 290.1 | 295.0 | 301.6 | 309.9 | 318.3 | 326.7 | 335.0 | 340.8 |
| 110°   | 310.4 | 315.1 | 319.8 | 324.5 | 329.2 | 335.7 | 343.9 | 352.0 | 360.2 | 368.5 | 373.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 349.1  | 353.3  | 357.4  | 361.5  | 365.8  | 371.6  | 379.3  | 386.9  | 394.6  | 402.1  | 407.0  |
| 115°   | 406.2  | 409.3  | 412.5  | 415.7  | 418.9  | 424.0  | 431.1  | 438.2  | 445.4  | 452.4  | 457.2  |
| 117.5° | 462.2  | 465.2  | 468.2  | 471.2  | 474.2  | 478.6  | 484.3  | 490.0  | 495.7  | 501.4  | 505.8  |
| 120°   | 500.1  | 502.6  | 505.0  | 507.5  | 510.0  | 513.6  | 518.6  | 523.5  | 528.4  | 533.3  | 538.0  |
| 122.5° | 534.8  | 537.2  | 539.6  | 542.0  | 544.4  | 548.2  | 553.2  | 558.3  | 563.3  | 568.4  | 572.4  |
| 125°   | 588.0  | 590.1  | 592.1  | 594.1  | 596.1  | 599.5  | 604.2  | 608.8  | 613.5  | 618.2  | 622.1  |
| 127.5° | 640.7  | 643.1  | 645.4  | 647.8  | 650.2  | 653.2  | 656.7  | 660.1  | 663.7  | 667.2  | 670.6  |
| 130°   | 673.7  | 676.4  | 679.2  | 682.0  | 684.7  | 687.6  | 690.6  | 693.8  | 696.8  | 699.8  | 703.5  |
| 132.5° | 710.8  | 713.0  | 715.2  | 717.4  | 719.6  | 722.2  | 724.9  | 727.7  | 730.5  | 733.4  | 736.3  |
| 135°   | 759.6  | 762.0  | 764.6  | 767.0  | 769.5  | 771.7  | 773.9  | 776.0  | 778.1  | 780.2  | 783.6  |
| 137.5° | 811.8  | 813.9  | 815.8  | 817.8  | 819.7  | 821.4  | 822.7  | 824.0  | 825.4  | 826.7  | 829.6  |
| 140°   | 843.2  | 845.2  | 847.0  | 848.8  | 850.7  | 852.3  | 853.7  | 855.3  | 856.7  | 858.2  | 860.8  |
| 142.5° | 875.6  | 877.4  | 879.2  | 881.1  | 882.9  | 884.2  | 885.0  | 886.0  | 886.8  | 887.6  | 889.9  |
| 145°   | 921.1  | 922.7  | 924.2  | 925.8  | 927.4  | 928.9  | 930.2  | 931.5  | 932.9  | 934.2  | 935.4  |
| 147.5° | 962.4  | 964.3  | 966.2  | 968.1  | 970.0  | 971.4  | 972.3  | 973.1  | 974.0  | 974.9  | 975.5  |
| 150°   | 990.7  | 992.0  | 993.3  | 994.7  | 996.0  | 997.1  | 998.0  | 999.0  | 999.9  | 1000.8 | 1001.4 |
| 152.5° | 1015.6 | 1017.0 | 1018.3 | 1019.7 | 1021.1 | 1022.3 | 1023.3 | 1024.4 | 1025.4 | 1026.5 | 1027.4 |
| 155°   | 1053.2 | 1053.8 | 1054.5 | 1055.2 | 1055.8 | 1056.5 | 1057.2 | 1057.8 | 1058.5 | 1059.1 | 1060.4 |
| 157.5° | 1085.2 | 1085.6 | 1086.1 | 1086.5 | 1087.0 | 1087.4 | 1087.8 | 1088.2 | 1088.6 | 1089.0 | 1090.6 |
| 160°   | 1104.6 | 1105.0 | 1105.4 | 1105.9 | 1106.3 | 1106.7 | 1106.9 | 1107.1 | 1107.3 | 1107.5 | 1108.9 |
| 162.5° | 1122.3 | 1122.4 | 1122.5 | 1122.6 | 1122.7 | 1122.8 | 1123.1 | 1123.3 | 1123.5 | 1123.7 | 1125.2 |
| 165°   | 1145.9 | 1145.7 | 1145.4 | 1145.2 | 1145.0 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1146.4 |
| 167.5° | 1165.6 | 1165.0 | 1164.3 | 1163.6 | 1163.0 | 1162.6 | 1162.6 | 1162.5 | 1162.5 | 1162.4 | 1164.0 |
| 170°   | 1176.1 | 1175.4 | 1174.8 | 1174.1 | 1173.4 | 1173.0 | 1172.8 | 1172.6 | 1172.3 | 1172.0 | 1173.7 |
| 172.5° | 1183.4 | 1182.7 | 1182.0 | 1181.3 | 1180.6 | 1180.2 | 1180.0 | 1179.7 | 1179.5 | 1179.3 | 1180.9 |
| 175°   | 1192.2 | 1191.5 | 1190.8 | 1190.2 | 1189.5 | 1189.0 | 1188.5 | 1188.1 | 1187.6 | 1187.2 | 1188.7 |
| 177.5° | 1195.9 | 1195.3 | 1194.8 | 1194.3 | 1193.7 | 1193.3 | 1192.9 | 1192.5 | 1192.1 | 1191.8 | 1192.9 |
| 180°   | 1194.3 | 1194.3 | 1194.3 | 1194.3 | 1194.3 | 1194.3 | 1194.3 | 1194.3 | 1194.3 | 1194.3 | 1194.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 |
| 2.5°   | 518.8 | 519.4 | 520.1 | 520.3 | 520.0 | 519.8 | 519.5 | 519.2 |
| 5°     | 517.2 | 518.2 | 519.2 | 519.6 | 519.4 | 519.3 | 519.1 | 518.9 |
| 7.5°   | 514.6 | 515.8 | 517.1 | 517.6 | 517.5 | 517.3 | 517.1 | 516.9 |
| 10°    | 512.5 | 513.8 | 515.2 | 515.8 | 515.6 | 515.4 | 515.3 | 515.1 |
| 12.5°  | 508.9 | 510.3 | 511.6 | 512.2 | 512.0 | 511.8 | 511.7 | 511.5 |
| 15°    | 502.3 | 503.8 | 505.3 | 505.9 | 505.8 | 505.6 | 505.4 | 505.3 |
| 17.5°  | 493.8 | 495.4 | 497.0 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 |
| 20°    | 487.2 | 489.0 | 490.8 | 491.7 | 491.7 | 491.7 | 491.7 | 491.7 |
| 22.5°  | 479.9 | 481.7 | 483.6 | 484.6 | 484.9 | 485.1 | 485.4 | 485.7 |
| 25°    | 468.6 | 470.6 | 472.6 | 473.9 | 474.4 | 474.9 | 475.4 | 475.9 |
| 27.5°  | 456.2 | 458.7 | 461.2 | 462.6 | 463.0 | 463.4 | 463.7 | 464.1 |
| 30°    | 447.4 | 450.0 | 452.7 | 454.2 | 454.7 | 455.2 | 455.8 | 456.3 |
| 32.5°  | 437.9 | 440.9 | 444.0 | 446.1 | 447.0 | 447.9 | 448.8 | 449.7 |
| 35°    | 424.4 | 428.2 | 431.8 | 434.2 | 435.5 | 436.6 | 437.8 | 439.0 |
| 37.5°  | 410.6 | 414.8 | 418.8 | 421.4 | 422.7 | 423.9 | 425.2 | 426.5 |
| 40°    | 400.9 | 405.3 | 409.6 | 412.5 | 414.0 | 415.6 | 417.1 | 418.6 |
| 42.5°  | 391.4 | 396.2 | 400.9 | 404.1 | 405.6 | 407.1 | 408.6 | 410.1 |
| 45°    | 377.0 | 382.1 | 387.3 | 390.7 | 392.4 | 394.2 | 395.8 | 397.5 |
| 47.5°  | 361.8 | 367.3 | 372.7 | 376.4 | 378.2 | 380.0 | 381.9 | 383.7 |
| 50°    | 351.5 | 357.2 | 362.9 | 366.7 | 368.6 | 370.4 | 372.2 | 374.1 |
| 52.5°  | 340.3 | 346.2 | 352.0 | 355.9 | 357.9 | 359.9 | 361.8 | 363.9 |
| 55°    | 323.6 | 329.6 | 335.6 | 339.7 | 341.9 | 344.1 | 346.3 | 348.4 |
| 57.5°  | 305.8 | 312.3 | 318.8 | 323.2 | 325.4 | 327.6 | 329.8 | 332.0 |
| 60°    | 294.1 | 300.4 | 306.8 | 311.1 | 313.5 | 315.9 | 318.2 | 320.5 |
| 62.5°  | 281.6 | 288.3 | 295.1 | 299.6 | 301.8 | 304.1 | 306.3 | 308.5 |
| 65°    | 262.7 | 269.5 | 276.4 | 280.9 | 283.1 | 285.3 | 287.4 | 289.6 |
| 67.5°  | 243.5 | 250.3 | 257.3 | 262.0 | 264.2 | 266.5 | 268.8 | 271.0 |
| 70°    | 230.1 | 237.3 | 244.5 | 249.1 | 251.2 | 253.2 | 255.2 | 257.2 |
| 72.5°  | 217.2 | 224.3 | 231.4 | 236.1 | 238.4 | 240.9 | 243.3 | 245.7 |
| 75°    | 197.7 | 204.9 | 212.1 | 216.8 | 218.9 | 221.2 | 223.3 | 225.5 |
| 77.5°  | 178.6 | 185.8 | 193.0 | 197.7 | 200.1 | 202.4 | 204.8 | 207.1 |
| 80°    | 165.7 | 172.7 | 179.8 | 184.4 | 186.8 | 189.1 | 191.5 | 193.8 |
| 82.5°  | 153.6 | 160.7 | 167.6 | 172.3 | 174.5 | 176.7 | 178.9 | 181.2 |
| 85°    | 136.2 | 143.3 | 150.4 | 155.0 | 157.3 | 159.8 | 162.1 | 164.4 |
| 87.5°  | 128.6 | 135.3 | 142.1 | 146.5 | 148.8 | 150.9 | 153.1 | 155.3 |
| 90°    | 147.3 | 153.6 | 159.9 | 164.1 | 166.3 | 168.5 | 170.8 | 173.0 |
| 92.5°  | 139.5 | 146.1 | 152.8 | 157.1 | 159.3 | 161.3 | 163.3 | 165.4 |
| 95°    | 164.0 | 170.4 | 176.7 | 180.7 | 182.3 | 183.8 | 185.4 | 186.9 |
| 97.5°  | 201.1 | 207.3 | 213.5 | 217.5 | 219.4 | 221.5 | 223.4 | 225.3 |
| 100°   | 226.9 | 233.1 | 239.3 | 243.2 | 244.8 | 246.4 | 248.0 | 249.7 |
| 102.5° | 255.8 | 262.1 | 268.3 | 272.3 | 273.9 | 275.5 | 277.1 | 278.7 |
| 105°   | 299.2 | 305.5 | 311.8 | 315.9 | 317.8 | 319.6 | 321.4 | 323.3 |
| 107.5° | 346.6 | 352.4 | 358.3 | 361.5 | 362.3 | 363.1 | 364.1 | 364.9 |
| 110°   | 379.2 | 384.6 | 389.9 | 393.2 | 394.4 | 395.6 | 396.7 | 397.9 |





TEST NUMBER: P331316-840

CATALOG NUMBER: SA2XXDIP-C485D925U840-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 411.8  | 416.7  | 421.4  | 424.5  | 425.9  | 427.3  | 428.6  | 429.9  |
| 115°   | 462.0  | 466.9  | 471.6  | 474.6  | 475.7  | 477.0  | 478.2  | 479.3  |
| 117.5° | 510.3  | 514.7  | 519.2  | 521.9  | 522.9  | 523.9  | 525.0  | 526.0  |
| 120°   | 542.7  | 547.3  | 552.1  | 555.0  | 556.1  | 557.3  | 558.6  | 559.7  |
| 122.5° | 576.4  | 580.5  | 584.5  | 587.0  | 588.1  | 589.2  | 590.3  | 591.4  |
| 125°   | 625.9  | 629.8  | 633.7  | 636.2  | 637.5  | 638.7  | 640.1  | 641.4  |
| 127.5° | 673.9  | 677.3  | 680.6  | 682.7  | 683.5  | 684.2  | 685.0  | 685.7  |
| 130°   | 707.0  | 710.6  | 714.2  | 716.2  | 716.6  | 717.1  | 717.5  | 718.0  |
| 132.5° | 739.1  | 742.0  | 745.0  | 746.7  | 747.3  | 748.0  | 748.6  | 749.2  |
| 135°   | 786.9  | 790.1  | 793.5  | 795.5  | 796.1  | 796.8  | 797.5  | 798.1  |
| 137.5° | 832.5  | 835.4  | 838.3  | 839.9  | 840.1  | 840.4  | 840.6  | 840.8  |
| 140°   | 863.5  | 866.2  | 868.9  | 870.3  | 870.4  | 870.5  | 870.6  | 870.7  |
| 142.5° | 892.2  | 894.5  | 896.9  | 898.0  | 898.0  | 898.0  | 898.0  | 897.9  |
| 145°   | 936.6  | 938.0  | 939.2  | 939.8  | 939.7  | 939.6  | 939.6  | 939.5  |
| 147.5° | 976.2  | 976.8  | 977.4  | 977.5  | 977.0  | 976.6  | 976.2  | 975.7  |
| 150°   | 1002.1 | 1002.8 | 1003.4 | 1003.4 | 1002.8 | 1002.1 | 1001.4 | 1000.8 |
| 152.5° | 1028.2 | 1029.1 | 1030.0 | 1030.0 | 1029.1 | 1028.2 | 1027.4 | 1026.5 |
| 155°   | 1061.5 | 1062.6 | 1063.7 | 1063.9 | 1063.2 | 1062.6 | 1061.9 | 1061.2 |
| 157.5° | 1092.1 | 1093.6 | 1095.1 | 1095.3 | 1094.3 | 1093.2 | 1092.1 | 1091.1 |
| 160°   | 1110.2 | 1111.6 | 1113.0 | 1113.2 | 1112.3 | 1111.4 | 1110.4 | 1109.5 |
| 162.5° | 1126.7 | 1128.2 | 1129.7 | 1130.0 | 1128.9 | 1127.8 | 1126.8 | 1125.7 |
| 165°   | 1148.0 | 1149.5 | 1151.1 | 1151.3 | 1150.2 | 1149.1 | 1148.0 | 1146.9 |
| 167.5° | 1165.5 | 1167.1 | 1168.6 | 1168.8 | 1167.7 | 1166.5 | 1165.4 | 1164.2 |
| 170°   | 1175.2 | 1176.8 | 1178.3 | 1178.4 | 1177.1 | 1175.8 | 1174.4 | 1173.1 |
| 172.5° | 1182.5 | 1184.1 | 1185.6 | 1185.7 | 1184.4 | 1183.1 | 1181.6 | 1180.3 |
| 175°   | 1190.3 | 1191.8 | 1193.5 | 1193.6 | 1192.2 | 1190.8 | 1189.5 | 1188.2 |
| 177.5° | 1194.0 | 1195.1 | 1196.1 | 1196.1 | 1195.1 | 1194.0 | 1192.9 | 1191.8 |
| 180°   | 1194.3 | 1194.3 | 1194.3 | 1194.3 | 1194.3 | 1194.3 | 1194.3 | 1194.3 |

(END OF REPORT)