

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: P331274-927

Luminaire Tested: **SA2XXDIP-C290D925U927-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331274-927  
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-C290D925U927-4F0-1E-UDD-F1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH 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: 3575.4 lumens  
Efficiency: N/A  
Efficacy: 95.9 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

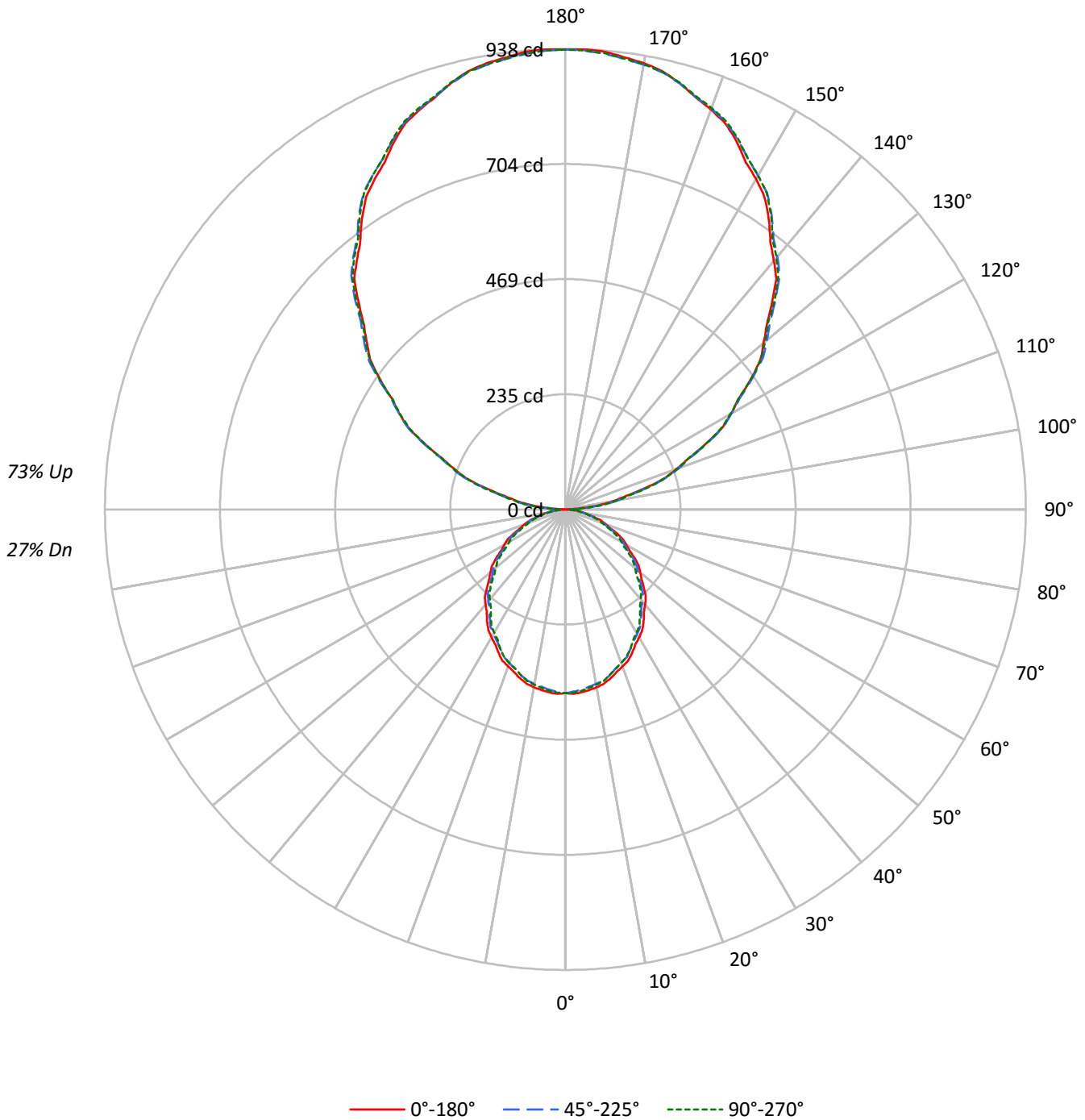
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P331274-927

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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 | 50 | 30 | 10 | 0  |    |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 52 | 52 | 52 | 35 | 35 | 35 | 27 |    |    |    | 27 |
| 1   | 93  | 88  | 85  | 81  | 82 | 79 | 76 | 73 | 62 | 59 | 58 | 45 | 44 | 43 | 31 | 30 | 29 |    |    |    | 22 |    |
| 2   | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 60 | 54 | 50 | 48 | 40 | 38 | 36 | 27 | 26 | 25 |    |    |    | 19 |    |
| 3   | 77  | 68  | 61  | 55  | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 35 | 33 | 30 | 24 | 22 | 21 |    |    |    | 16 |    |
| 4   | 70  | 60  | 52  | 46  | 62 | 54 | 47 | 42 | 42 | 38 | 34 | 31 | 28 | 26 | 21 | 19 | 18 |    |    |    | 14 |    |
| 5   | 64  | 53  | 45  | 40  | 57 | 48 | 41 | 36 | 38 | 33 | 29 | 28 | 25 | 22 | 19 | 17 | 16 |    |    |    | 12 |    |
| 6   | 59  | 47  | 40  | 34  | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 25 | 22 | 19 | 17 | 15 | 14 |    |    |    | 10 |    |
| 7   | 55  | 43  | 35  | 30  | 49 | 38 | 32 | 27 | 30 | 26 | 22 | 23 | 20 | 17 | 16 | 14 | 12 |    |    |    | 9  |    |
| 8   | 50  | 39  | 31  | 26  | 45 | 35 | 28 | 24 | 28 | 23 | 19 | 21 | 18 | 15 | 15 | 12 | 11 |    |    |    | 8  |    |
| 9   | 47  | 35  | 28  | 23  | 42 | 32 | 25 | 21 | 25 | 21 | 17 | 19 | 16 | 14 | 13 | 11 | 10 |    |    |    | 7  |    |
| 10  | 44  | 32  | 25  | 21  | 39 | 29 | 23 | 19 | 23 | 19 | 15 | 18 | 14 | 12 | 12 | 10 | 9  |    |    |    | 7  |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6042 | 6042 | 6042 |
| 5°  | 6065 | 5977 | 6015 |
| 10° | 6030 | 5917 | 5946 |
| 15° | 5954 | 5840 | 5835 |
| 20° | 5849 | 5727 | 5720 |
| 25° | 5744 | 5585 | 5585 |
| 30° | 5610 | 5455 | 5407 |
| 35° | 5483 | 5298 | 5219 |
| 40° | 5324 | 5143 | 5044 |
| 45° | 5167 | 4987 | 4864 |
| 50° | 4999 | 4828 | 4657 |
| 55° | 4822 | 4642 | 4467 |
| 60° | 4624 | 4414 | 4253 |
| 65° | 4413 | 4195 | 4000 |
| 70° | 4145 | 3923 | 3734 |
| 75° | 3768 | 3612 | 3525 |
| 80° | 3347 | 3245 | 3078 |
| 85° | 2723 | 2594 | 2334 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.2   | 1.0       |
| 10°-20°   | 99.0   | 2.8       |
| 20°-30°   | 145.6  | 4.1       |
| 30°-40°   | 169.1  | 4.7       |
| 40°-50°   | 168.9  | 4.7       |
| 50°-60°   | 147.3  | 4.1       |
| 60°-70°   | 108.9  | 3.0       |
| 70°-80°   | 61.7   | 1.7       |
| 80°-90°   | 20.3   | 0.6       |
| 90°-100°  | 59.4   | 1.7       |
| 100°-110° | 184.4  | 5.2       |
| 110°-120° | 315.1  | 8.8       |
| 120°-130° | 414.4  | 11.6      |
| 130°-140° | 465.2  | 13.0      |
| 140°-150° | 456.1  | 12.8      |
| 150°-160° | 382.5  | 10.7      |
| 160°-170° | 253.7  | 7.1       |
| 170°-180° | 88.7   | 2.5       |
| 0°-30°    | 279.8  | 7.8       |
| 0°-40°    | 448.8  | 12.6      |
| 0°-60°    | 765.0  | 21.4      |
| 0°-90°    | 955.9  | 26.7      |
| 90°-120°  | 558.9  | 15.6      |
| 90°-150°  | 1894.5 | 53.0      |
| 90°-180°  | 2620.0 | 73.3      |
| 0°-180°   | 3575.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 374 | 374   | 374 | 374   | 374 |      |
| 5°   | 374 | 373   | 369 | 372   | 371 | 35   |
| 15°  | 356 | 354   | 349 | 351   | 349 | 100  |
| 25°  | 322 | 319   | 314 | 314   | 314 | 148  |
| 35°  | 278 | 274   | 269 | 267   | 265 | 174  |
| 45°  | 226 | 224   | 218 | 215   | 213 | 175  |
| 55°  | 171 | 169   | 165 | 161   | 159 | 153  |
| 65°  | 116 | 113   | 110 | 107   | 105 | 114  |
| 75°  | 60  | 60    | 58  | 56    | 56  | 65   |
| 85°  | 15  | 14    | 14  | 13    | 13  | 17   |
| 90°  | 1   | 11    | 28  | 26    | 27  | 3    |
| 95°  | 41  | 49    | 51  | 50    | 49  | 47   |
| 105° | 170 | 172   | 174 | 175   | 176 | 180  |
| 115° | 316 | 321   | 319 | 318   | 316 | 313  |
| 125° | 460 | 467   | 465 | 463   | 462 | 411  |
| 135° | 595 | 604   | 606 | 605   | 602 | 460  |
| 145° | 722 | 728   | 733 | 733   | 730 | 451  |
| 155° | 826 | 828   | 831 | 834   | 832 | 380  |
| 165° | 899 | 898   | 898 | 903   | 900 | 253  |
| 175° | 935 | 933   | 931 | 936   | 932 | 89   |
| 180° | 937 | 937   | 937 | 937   | 937 |      |



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CATALOG NUMBER: SA2XXDIP-C290D925U927-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 |
| 2.5°   | 376.0 | 375.7 | 375.3 | 375.0 | 374.7 | 374.2 | 373.5 | 372.8 | 372.1 | 371.4 | 372.0 |
| 5°     | 374.2 | 373.9 | 373.6 | 373.3 | 373.0 | 372.4 | 371.5 | 370.7 | 369.7 | 368.8 | 369.5 |
| 7.5°   | 371.0 | 370.4 | 369.9 | 369.5 | 369.0 | 368.3 | 367.4 | 366.5 | 365.6 | 364.7 | 365.4 |
| 10°    | 367.8 | 367.3 | 366.7 | 366.1 | 365.5 | 364.8 | 363.8 | 362.9 | 361.9 | 360.9 | 361.6 |
| 12.5°  | 363.5 | 363.0 | 362.5 | 361.9 | 361.5 | 360.8 | 359.8 | 358.9 | 357.9 | 357.0 | 357.4 |
| 15°    | 356.2 | 355.8 | 355.3 | 354.8 | 354.3 | 353.6 | 352.5 | 351.5 | 350.5 | 349.4 | 349.7 |
| 17.5°  | 347.1 | 346.6 | 346.1 | 345.6 | 345.2 | 344.4 | 343.3 | 342.2 | 341.2 | 340.2 | 340.5 |
| 20°    | 340.4 | 339.9 | 339.5 | 339.0 | 338.5 | 337.7 | 336.6 | 335.5 | 334.4 | 333.3 | 333.5 |
| 22.5°  | 333.8 | 333.1 | 332.5 | 331.8 | 331.1 | 330.3 | 329.2 | 328.1 | 327.1 | 326.1 | 326.1 |
| 25°    | 322.4 | 321.8 | 321.2 | 320.5 | 319.9 | 318.9 | 317.5 | 316.2 | 314.8 | 313.5 | 313.6 |
| 27.5°  | 309.5 | 309.0 | 308.3 | 307.8 | 307.2 | 306.3 | 305.3 | 304.2 | 303.2 | 302.1 | 301.8 |
| 30°    | 300.9 | 300.2 | 299.6 | 299.0 | 298.3 | 297.4 | 296.2 | 295.0 | 293.7 | 292.6 | 292.3 |
| 32.5°  | 291.6 | 291.1 | 290.7 | 290.1 | 289.6 | 288.7 | 287.4 | 286.2 | 284.9 | 283.7 | 283.2 |
| 35°    | 278.2 | 277.3 | 276.6 | 275.8 | 275.0 | 273.9 | 272.7 | 271.4 | 270.1 | 268.8 | 268.3 |
| 37.5°  | 263.0 | 262.3 | 261.6 | 260.9 | 260.2 | 259.2 | 257.9 | 256.7 | 255.3 | 254.1 | 253.5 |
| 40°    | 252.6 | 252.0 | 251.4 | 250.7 | 250.1 | 249.1 | 247.8 | 246.5 | 245.3 | 244.0 | 243.3 |
| 42.5°  | 242.6 | 241.9 | 241.3 | 240.7 | 240.0 | 239.0 | 237.7 | 236.5 | 235.2 | 233.9 | 233.1 |
| 45°    | 226.3 | 225.8 | 225.2 | 224.7 | 224.1 | 223.2 | 222.0 | 220.9 | 219.7 | 218.4 | 217.5 |
| 47.5°  | 210.2 | 209.7 | 209.2 | 208.7 | 208.1 | 207.2 | 206.0 | 204.8 | 203.5 | 202.2 | 201.3 |
| 50°    | 199.0 | 198.6 | 198.2 | 197.8 | 197.4 | 196.6 | 195.5 | 194.4 | 193.3 | 192.2 | 191.1 |
| 52.5°  | 188.1 | 187.5 | 187.0 | 186.5 | 185.9 | 185.1 | 184.1 | 183.1 | 182.0 | 180.9 | 180.0 |
| 55°    | 171.3 | 170.8 | 170.3 | 169.8 | 169.4 | 168.7 | 167.7 | 166.8 | 165.8 | 164.9 | 163.8 |
| 57.5°  | 154.5 | 154.1 | 153.7 | 153.3 | 152.9 | 152.2 | 151.1 | 150.1 | 149.0 | 148.0 | 147.0 |
| 60°    | 143.2 | 142.9 | 142.6 | 142.3 | 142.0 | 141.2 | 140.1 | 139.0 | 137.8 | 136.7 | 135.9 |
| 62.5°  | 132.3 | 131.7 | 131.3 | 130.8 | 130.2 | 129.5 | 128.7 | 127.9 | 127.0 | 126.1 | 125.2 |
| 65°    | 115.5 | 115.0 | 114.5 | 114.1 | 113.6 | 113.0 | 112.2 | 111.4 | 110.6 | 109.8 | 109.0 |
| 67.5°  | 98.5  | 98.1  | 97.7  | 97.3  | 97.0  | 96.4  | 95.6  | 94.9  | 94.2  | 93.5  | 92.9  |
| 70°    | 87.8  | 87.5  | 87.1  | 86.8  | 86.5  | 86.0  | 85.3  | 84.6  | 83.8  | 83.1  | 82.5  |
| 72.5°  | 76.8  | 76.5  | 76.2  | 75.9  | 75.6  | 75.2  | 74.7  | 74.3  | 73.8  | 73.4  | 72.8  |
| 75°    | 60.4  | 60.3  | 60.1  | 60.0  | 59.8  | 59.6  | 59.2  | 58.7  | 58.3  | 57.9  | 57.4  |
| 77.5°  | 45.8  | 45.5  | 45.2  | 45.0  | 44.7  | 44.4  | 44.3  | 44.1  | 44.0  | 43.8  | 43.6  |
| 80°    | 36.0  | 35.9  | 35.8  | 35.7  | 35.6  | 35.6  | 35.4  | 35.3  | 35.1  | 34.9  | 34.7  |
| 82.5°  | 26.8  | 26.8  | 26.8  | 26.7  | 26.7  | 26.6  | 26.5  | 26.5  | 26.4  | 26.3  | 26.0  |
| 85°    | 14.7  | 14.7  | 14.6  | 14.5  | 14.4  | 14.3  | 14.3  | 14.2  | 14.1  | 14.0  | 13.8  |
| 87.5°  | 5.3   | 5.6   | 5.9   | 6.3   | 6.5   | 7.0   | 7.6   | 8.2   | 9.0   | 9.6   | 9.3   |
| 90°    | 0.8   | 2.9   | 5.0   | 7.1   | 9.2   | 12.2  | 16.1  | 20.0  | 23.8  | 27.6  | 27.3  |
| 92.5°  | 14.1  | 15.6  | 17.2  | 18.7  | 20.3  | 21.5  | 22.4  | 23.3  | 24.2  | 25.1  | 25.2  |
| 95°    | 41.1  | 42.9  | 44.6  | 46.3  | 48.2  | 49.2  | 49.5  | 49.9  | 50.2  | 50.6  | 50.6  |
| 97.5°  | 75.1  | 76.7  | 78.2  | 79.8  | 81.3  | 82.4  | 83.1  | 83.7  | 84.4  | 85.1  | 85.1  |
| 100°   | 100.4 | 101.8 | 103.2 | 104.6 | 106.0 | 107.0 | 107.5 | 108.1 | 108.6 | 109.1 | 109.1 |
| 102.5° | 127.0 | 128.1 | 129.2 | 130.3 | 131.4 | 132.4 | 133.0 | 133.7 | 134.4 | 135.1 | 135.1 |
| 105°   | 170.0 | 170.5 | 171.0 | 171.6 | 172.1 | 172.5 | 172.9 | 173.3 | 173.6 | 173.9 | 174.3 |
| 107.5° | 213.3 | 214.0 | 214.8 | 215.6 | 216.4 | 216.7 | 216.7 | 216.7 | 216.7 | 216.7 | 216.9 |
| 110°   | 241.1 | 242.2 | 243.2 | 244.3 | 245.3 | 245.9 | 245.9 | 245.9 | 245.9 | 245.9 | 245.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 271.5 | 272.5 | 273.6 | 274.6 | 275.7 | 276.2 | 276.0 | 275.8 | 275.8 | 275.6 | 275.2 |
| 115°   | 316.2 | 317.3 | 318.3 | 319.4 | 320.4 | 320.8 | 320.4 | 320.1 | 319.7 | 319.4 | 319.2 |
| 117.5° | 360.8 | 362.2 | 363.6 | 365.0 | 366.5 | 366.6 | 365.7 | 364.6 | 363.7 | 362.7 | 362.3 |
| 120°   | 390.5 | 392.0 | 393.3 | 394.7 | 396.2 | 396.2 | 394.7 | 393.3 | 392.0 | 390.5 | 390.5 |
| 122.5° | 417.7 | 419.4 | 421.1 | 422.8 | 424.5 | 424.8 | 423.8 | 422.9 | 421.9 | 420.9 | 420.5 |
| 125°   | 460.1 | 461.7 | 463.3 | 464.9 | 466.4 | 467.0 | 466.4 | 465.9 | 465.4 | 464.9 | 464.3 |
| 127.5° | 501.4 | 503.4 | 505.4 | 507.4 | 509.4 | 510.1 | 509.5 | 508.8 | 508.2 | 507.6 | 506.9 |
| 130°   | 527.3 | 529.6 | 531.9 | 534.2 | 536.5 | 537.4 | 537.0 | 536.7 | 536.4 | 536.0 | 535.7 |
| 132.5° | 556.4 | 558.3 | 560.2 | 562.0 | 563.9 | 564.8 | 564.9 | 565.0 | 565.0 | 565.1 | 564.4 |
| 135°   | 595.3 | 597.2 | 599.1 | 601.1 | 603.0 | 604.2 | 604.5 | 604.8 | 605.2 | 605.5 | 605.4 |
| 137.5° | 636.3 | 637.8 | 639.4 | 641.0 | 642.5 | 643.6 | 644.0 | 644.5 | 645.0 | 645.4 | 645.3 |
| 140°   | 660.9 | 662.5 | 664.1 | 665.7 | 667.3 | 668.4 | 669.3 | 670.2 | 671.1 | 672.0 | 672.0 |
| 142.5° | 686.2 | 687.8 | 689.4 | 690.9 | 692.5 | 693.6 | 694.2 | 694.8 | 695.4 | 696.0 | 696.2 |
| 145°   | 722.5 | 723.8 | 725.0 | 726.3 | 727.5 | 728.6 | 729.7 | 730.7 | 731.8 | 732.8 | 733.0 |
| 147.5° | 754.9 | 756.5 | 758.0 | 759.4 | 760.9 | 762.0 | 762.7 | 763.3 | 764.1 | 764.8 | 765.2 |
| 150°   | 777.1 | 778.2 | 779.2 | 780.3 | 781.3 | 782.2 | 782.9 | 783.6 | 784.3 | 785.1 | 785.5 |
| 152.5° | 796.7 | 797.8 | 798.8 | 799.9 | 801.0 | 801.9 | 802.7 | 803.6 | 804.4 | 805.3 | 806.0 |
| 155°   | 826.2 | 826.6 | 827.2 | 827.8 | 828.2 | 828.8 | 829.3 | 829.8 | 830.4 | 830.8 | 831.8 |
| 157.5° | 851.3 | 851.6 | 852.0 | 852.3 | 852.7 | 853.0 | 853.3 | 853.7 | 854.0 | 854.3 | 855.5 |
| 160°   | 866.5 | 866.8 | 867.1 | 867.5 | 867.8 | 868.2 | 868.3 | 868.5 | 868.6 | 868.8 | 869.9 |
| 162.5° | 880.4 | 880.4 | 880.5 | 880.6 | 880.7 | 880.7 | 881.0 | 881.1 | 881.3 | 881.5 | 882.6 |
| 165°   | 898.9 | 898.7 | 898.5 | 898.3 | 898.2 | 898.1 | 898.1 | 898.1 | 898.1 | 898.1 | 899.3 |
| 167.5° | 914.3 | 913.9 | 913.3 | 912.8 | 912.3 | 912.0 | 912.0 | 911.9 | 911.9 | 911.8 | 913.1 |
| 170°   | 922.6 | 922.0 | 921.5 | 921.0 | 920.4 | 920.1 | 920.0 | 919.8 | 919.6 | 919.4 | 920.7 |
| 172.5° | 928.3 | 927.7 | 927.2 | 926.7 | 926.1 | 925.8 | 925.7 | 925.4 | 925.3 | 925.1 | 926.4 |
| 175°   | 935.3 | 934.7 | 934.1 | 933.7 | 933.1 | 932.7 | 932.3 | 932.0 | 931.6 | 931.3 | 932.5 |
| 177.5° | 938.1 | 937.6 | 937.2 | 936.8 | 936.4 | 936.0 | 935.7 | 935.5 | 935.2 | 934.9 | 935.7 |
| 180°   | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 |
| 2.5°   | 372.6 | 373.3 | 373.9 | 374.2 | 374.1 | 373.9 | 373.8 | 373.7 |
| 5°     | 370.2 | 370.8 | 371.5 | 371.7 | 371.5 | 371.4 | 371.2 | 371.1 |
| 7.5°   | 366.0 | 366.6 | 367.3 | 367.5 | 367.3 | 367.1 | 366.9 | 366.8 |
| 10°    | 362.3 | 362.9 | 363.5 | 363.7 | 363.5 | 363.2 | 363.0 | 362.7 |
| 12.5°  | 357.8 | 358.2 | 358.7 | 358.9 | 358.7 | 358.5 | 358.3 | 358.1 |
| 15°    | 350.1 | 350.4 | 350.7 | 350.7 | 350.3 | 349.9 | 349.5 | 349.1 |
| 17.5°  | 340.9 | 341.3 | 341.6 | 341.6 | 341.2 | 340.9 | 340.5 | 340.1 |
| 20°    | 333.7 | 334.0 | 334.2 | 334.1 | 333.8 | 333.5 | 333.2 | 332.9 |
| 22.5°  | 326.1 | 326.2 | 326.2 | 326.1 | 326.0 | 325.7 | 325.6 | 325.4 |
| 25°    | 313.8 | 313.9 | 314.1 | 314.1 | 313.9 | 313.8 | 313.6 | 313.5 |
| 27.5°  | 301.6 | 301.3 | 301.1 | 300.8 | 300.4 | 300.0 | 299.7 | 299.3 |
| 30°    | 292.1 | 291.8 | 291.6 | 291.4 | 291.0 | 290.7 | 290.4 | 290.0 |
| 32.5°  | 282.8 | 282.3 | 281.9 | 281.5 | 281.2 | 280.9 | 280.6 | 280.3 |
| 35°    | 267.8 | 267.4 | 266.9 | 266.5 | 266.1 | 265.7 | 265.3 | 264.8 |
| 37.5°  | 252.9 | 252.3 | 251.7 | 251.2 | 250.8 | 250.4 | 250.1 | 249.7 |
| 40°    | 242.6 | 241.9 | 241.1 | 240.6 | 240.3 | 240.0 | 239.6 | 239.3 |
| 42.5°  | 232.3 | 231.6 | 230.8 | 230.1 | 229.7 | 229.3 | 228.9 | 228.4 |
| 45°    | 216.7 | 215.8 | 214.9 | 214.3 | 214.0 | 213.7 | 213.3 | 213.0 |
| 47.5°  | 200.4 | 199.5 | 198.5 | 197.8 | 197.4 | 196.9 | 196.5 | 196.0 |
| 50°    | 190.0 | 188.8 | 187.7 | 187.0 | 186.6 | 186.2 | 185.8 | 185.4 |
| 52.5°  | 179.1 | 178.2 | 177.2 | 176.5 | 175.9 | 175.5 | 174.9 | 174.4 |
| 55°    | 162.9 | 161.9 | 161.0 | 160.3 | 159.9 | 159.5 | 159.1 | 158.7 |
| 57.5°  | 146.1 | 145.1 | 144.2 | 143.5 | 143.3 | 143.0 | 142.7 | 142.4 |
| 60°    | 135.0 | 134.1 | 133.2 | 132.7 | 132.5 | 132.2 | 132.0 | 131.7 |
| 62.5°  | 124.5 | 123.7 | 122.9 | 122.3 | 122.0 | 121.7 | 121.4 | 121.0 |
| 65°    | 108.3 | 107.6 | 106.9 | 106.3 | 105.9 | 105.5 | 105.1 | 104.7 |
| 67.5°  | 92.4  | 91.8  | 91.3  | 90.8  | 90.5  | 90.2  | 89.8  | 89.5  |
| 70°    | 82.0  | 81.4  | 80.9  | 80.5  | 80.2  | 79.8  | 79.5  | 79.1  |
| 72.5°  | 72.2  | 71.7  | 71.1  | 70.7  | 70.4  | 70.2  | 69.9  | 69.6  |
| 75°    | 57.0  | 56.5  | 56.0  | 55.8  | 56.0  | 56.2  | 56.3  | 56.5  |
| 77.5°  | 43.3  | 43.1  | 42.9  | 42.6  | 42.4  | 42.2  | 42.0  | 41.7  |
| 80°    | 34.5  | 34.2  | 34.0  | 33.7  | 33.6  | 33.4  | 33.3  | 33.1  |
| 82.5°  | 25.7  | 25.3  | 25.0  | 24.9  | 24.9  | 24.8  | 24.8  | 24.8  |
| 85°    | 13.5  | 13.3  | 13.1  | 12.9  | 12.8  | 12.8  | 12.7  | 12.6  |
| 87.5°  | 9.0   | 8.8   | 8.5   | 8.4   | 8.3   | 8.3   | 8.3   | 8.2   |
| 90°    | 26.9  | 26.6  | 26.3  | 26.1  | 26.4  | 26.5  | 26.7  | 26.9  |
| 92.5°  | 25.3  | 25.3  | 25.4  | 25.5  | 25.5  | 25.5  | 25.6  | 25.6  |
| 95°    | 50.6  | 50.6  | 50.6  | 50.4  | 50.1  | 49.7  | 49.4  | 49.0  |
| 97.5°  | 85.1  | 85.1  | 85.1  | 85.1  | 85.0  | 85.0  | 84.9  | 84.9  |
| 100°   | 109.1 | 109.1 | 109.1 | 109.0 | 108.8 | 108.7 | 108.4 | 108.3 |
| 102.5° | 135.3 | 135.5 | 135.6 | 135.5 | 135.4 | 135.2 | 135.1 | 134.9 |
| 105°   | 174.6 | 175.0 | 175.3 | 175.5 | 175.5 | 175.5 | 175.5 | 175.5 |
| 107.5° | 217.1 | 217.2 | 217.3 | 217.0 | 216.2 | 215.4 | 214.6 | 213.7 |
| 110°   | 245.9 | 245.9 | 245.9 | 245.6 | 245.1 | 244.5 | 244.0 | 243.5 |





TEST NUMBER: P331274-927

CATALOG NUMBER: SA2XXDIP-C290D925U927-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 274.7 | 274.3 | 273.9 | 273.5 | 273.1 | 272.7 | 272.4 | 272.0 |
| 115°   | 319.0 | 318.9 | 318.7 | 318.3 | 317.8 | 317.3 | 316.7 | 316.2 |
| 117.5° | 361.9 | 361.5 | 361.0 | 360.5 | 360.0 | 359.5 | 358.9 | 358.5 |
| 120°   | 390.5 | 390.5 | 390.5 | 390.3 | 389.8 | 389.2 | 388.7 | 388.2 |
| 122.5° | 420.0 | 419.6 | 419.2 | 418.8 | 418.4 | 418.0 | 417.6 | 417.2 |
| 125°   | 463.8 | 463.3 | 462.7 | 462.4 | 462.2 | 462.0 | 461.8 | 461.7 |
| 127.5° | 506.3 | 505.6 | 505.0 | 504.4 | 503.8 | 503.3 | 502.7 | 502.2 |
| 130°   | 535.3 | 535.0 | 534.6 | 534.1 | 533.4 | 532.7 | 532.0 | 531.2 |
| 132.5° | 563.6 | 562.8 | 562.0 | 561.3 | 560.8 | 560.2 | 559.7 | 559.1 |
| 135°   | 605.2 | 605.1 | 604.8 | 604.5 | 604.0 | 603.5 | 602.9 | 602.4 |
| 137.5° | 645.2 | 645.0 | 644.8 | 644.4 | 643.7 | 643.0 | 642.3 | 641.6 |
| 140°   | 672.0 | 672.0 | 672.0 | 671.6 | 670.9 | 670.2 | 669.6 | 668.8 |
| 142.5° | 696.3 | 696.4 | 696.6 | 696.3 | 695.6 | 694.9 | 694.2 | 693.5 |
| 145°   | 733.2 | 733.4 | 733.6 | 733.3 | 732.6 | 731.9 | 731.2 | 730.5 |
| 147.5° | 765.6 | 766.0 | 766.4 | 766.2 | 765.6 | 764.9 | 764.2 | 763.5 |
| 150°   | 786.1 | 786.6 | 787.1 | 787.1 | 786.6 | 786.1 | 785.5 | 785.1 |
| 152.5° | 806.6 | 807.2 | 807.9 | 807.9 | 807.2 | 806.6 | 806.0 | 805.3 |
| 155°   | 832.7 | 833.5 | 834.4 | 834.6 | 834.0 | 833.5 | 833.0 | 832.4 |
| 157.5° | 856.7 | 857.9 | 859.0 | 859.2 | 858.4 | 857.5 | 856.7 | 855.9 |
| 160°   | 870.9 | 872.0 | 873.1 | 873.2 | 872.5 | 871.8 | 871.1 | 870.4 |
| 162.5° | 883.8 | 885.0 | 886.2 | 886.5 | 885.6 | 884.7 | 883.9 | 883.0 |
| 165°   | 900.6 | 901.7 | 903.0 | 903.2 | 902.3 | 901.4 | 900.6 | 899.7 |
| 167.5° | 914.3 | 915.5 | 916.7 | 916.9 | 916.0 | 915.0 | 914.2 | 913.2 |
| 170°   | 921.9 | 923.1 | 924.3 | 924.4 | 923.4 | 922.3 | 921.2 | 920.2 |
| 172.5° | 927.6 | 928.8 | 930.0 | 930.1 | 929.1 | 928.0 | 926.9 | 925.9 |
| 175°   | 933.7 | 934.9 | 936.2 | 936.3 | 935.3 | 934.1 | 933.1 | 932.1 |
| 177.5° | 936.6 | 937.5 | 938.3 | 938.3 | 937.5 | 936.6 | 935.7 | 934.9 |
| 180°   | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 |

(END OF REPORT)