

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: P331637-927

Luminaire Tested: **SA2XXRDIP-C290D925U927-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331637-927  
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: SA2XXRDIP-C290D925U927-4F0-1E-UDD-F1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3441.1 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

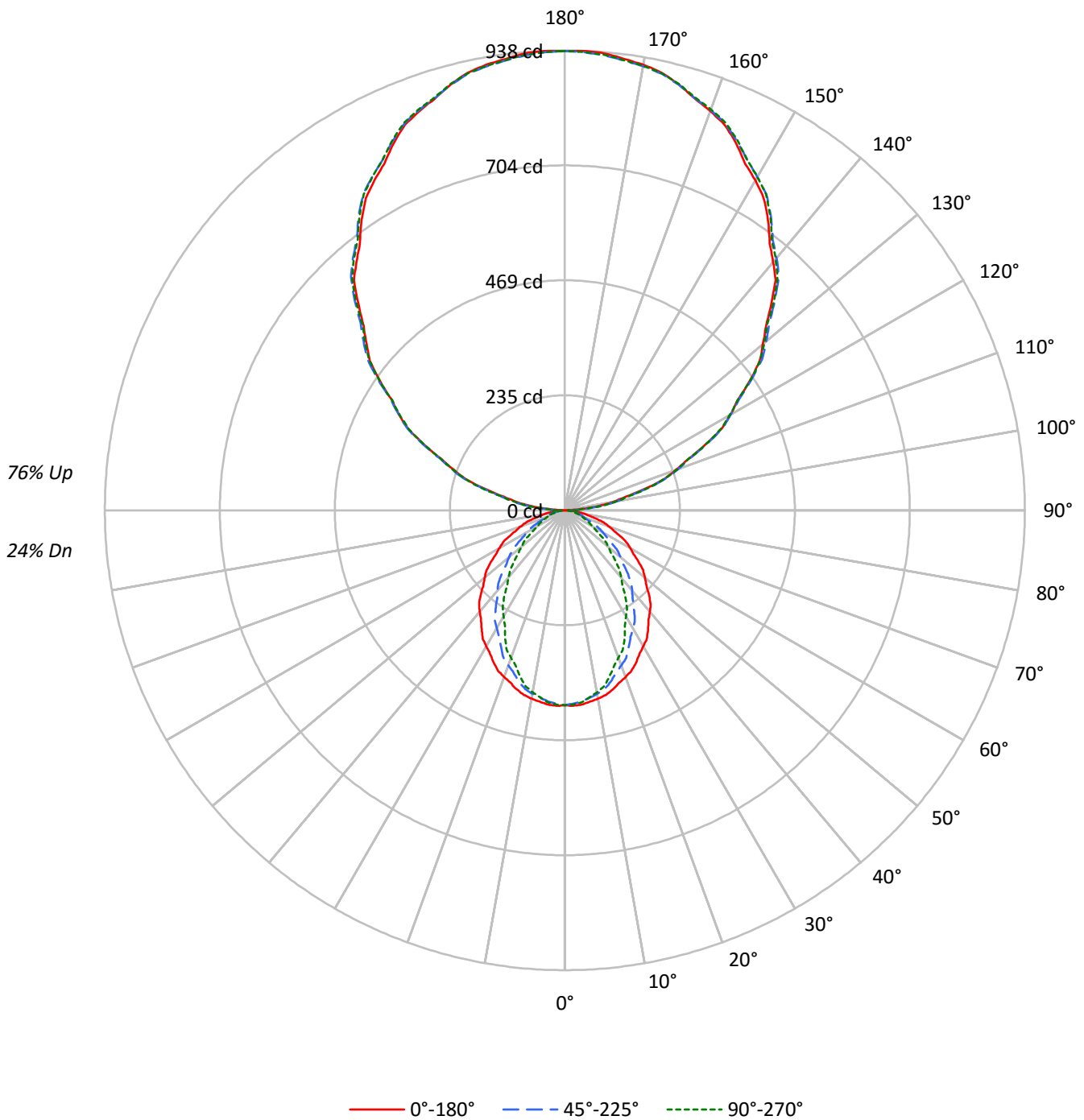
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331637-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-F1

### Luminous Intensity Polar Plot





TEST NUMBER: P331637-927

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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   | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 69 | 69 | 69 | 50 | 50 | 50 | 32 | 32 | 32 | 24 |
| 1   | 92  | 88  | 84  | 81  | 82 | 78 | 75 | 73 | 60 | 58 | 57 | 44 | 43 | 42 | 29 | 28 | 27 | 20 |
| 2   | 84  | 77  | 71  | 67  | 75 | 69 | 64 | 60 | 53 | 50 | 47 | 39 | 37 | 35 | 25 | 24 | 23 | 18 |
| 3   | 77  | 68  | 61  | 56  | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 34 | 32 | 30 | 23 | 21 | 20 | 15 |
| 4   | 70  | 60  | 53  | 47  | 62 | 54 | 47 | 43 | 42 | 37 | 34 | 31 | 28 | 26 | 20 | 19 | 18 | 13 |
| 5   | 64  | 53  | 46  | 40  | 57 | 48 | 41 | 37 | 37 | 33 | 29 | 28 | 25 | 22 | 19 | 17 | 15 | 12 |
| 6   | 59  | 48  | 40  | 35  | 53 | 43 | 36 | 32 | 34 | 29 | 26 | 25 | 22 | 20 | 17 | 15 | 14 | 10 |
| 7   | 55  | 43  | 36  | 30  | 49 | 39 | 32 | 28 | 30 | 26 | 22 | 23 | 20 | 17 | 15 | 14 | 12 | 9  |
| 8   | 51  | 39  | 32  | 27  | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 15 | 14 | 12 | 11 | 8  |
| 9   | 47  | 36  | 28  | 24  | 42 | 32 | 26 | 22 | 25 | 21 | 18 | 19 | 16 | 14 | 13 | 11 | 10 | 8  |
| 10  | 44  | 32  | 26  | 21  | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 12 | 12 | 10 | 9  | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6421 | 6421 | 6421 |
| 5°  | 6446 | 6340 | 6374 |
| 10° | 6396 | 6237 | 6184 |
| 15° | 6322 | 6051 | 5877 |
| 20° | 6220 | 5787 | 5498 |
| 25° | 6116 | 5489 | 5129 |
| 30° | 5972 | 5179 | 4657 |
| 35° | 5830 | 4845 | 4242 |
| 40° | 5689 | 4498 | 3762 |
| 45° | 5523 | 4108 | 3329 |
| 50° | 5350 | 3715 | 2901 |
| 55° | 5177 | 3291 | 2494 |
| 60° | 4973 | 2848 | 2070 |
| 65° | 4741 | 2392 | 1883 |
| 70° | 4471 | 1969 | 1733 |
| 75° | 4130 | 1797 | 1616 |
| 80° | 3645 | 1609 | 1469 |
| 85° | 2853 | 1260 | 1260 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.2   | 1.1       |
| 10°-20°   | 102.2  | 3.0       |
| 20°-30°   | 143.5  | 4.2       |
| 30°-40°   | 156.5  | 4.5       |
| 40°-50°   | 143.9  | 4.2       |
| 50°-60°   | 113.0  | 3.3       |
| 60°-70°   | 73.7   | 2.1       |
| 70°-80°   | 38.0   | 1.1       |
| 80°-90°   | 13.6   | 0.4       |
| 90°-100°  | 59.4   | 1.7       |
| 100°-110° | 184.4  | 5.4       |
| 110°-120° | 315.1  | 9.2       |
| 120°-130° | 414.4  | 12.0      |
| 130°-140° | 465.2  | 13.5      |
| 140°-150° | 456.1  | 13.3      |
| 150°-160° | 382.5  | 11.1      |
| 160°-170° | 253.7  | 7.4       |
| 170°-180° | 88.7   | 2.6       |
| 0°-30°    | 282.9  | 8.2       |
| 0°-40°    | 439.4  | 12.8      |
| 0°-60°    | 696.4  | 20.2      |
| 0°-90°    | 821.6  | 23.9      |
| 90°-120°  | 558.9  | 16.2      |
| 90°-150°  | 1894.5 | 55.1      |
| 90°-180°  | 2620.0 | 76.1      |
| 0°-180°   | 3441.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 398 | 398   | 398 | 398   | 398 |      |
| 5°   | 398 | 396   | 391 | 394   | 393 | 38   |
| 15°  | 378 | 374   | 362 | 355   | 352 | 106  |
| 25°  | 343 | 331   | 308 | 294   | 288 | 158  |
| 35°  | 296 | 277   | 246 | 224   | 215 | 185  |
| 45°  | 242 | 217   | 180 | 155   | 146 | 187  |
| 55°  | 184 | 155   | 117 | 96    | 89  | 164  |
| 65°  | 124 | 95    | 63  | 51    | 49  | 123  |
| 75°  | 66  | 42    | 29  | 26    | 26  | 70   |
| 85°  | 15  | 8     | 7   | 7     | 7   | 18   |
| 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 |      |



TEST NUMBER: P331637-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 |
| 2.5°   | 399.1 | 398.8 | 398.5 | 398.2 | 397.8 | 397.3 | 396.6 | 395.9 | 395.2 | 394.5 | 395.1 |
| 5°     | 397.7 | 397.3 | 396.9 | 396.5 | 396.1 | 395.3 | 394.3 | 393.2 | 392.2 | 391.2 | 391.9 |
| 7.5°   | 393.6 | 393.1 | 392.5 | 392.1 | 391.6 | 390.7 | 389.5 | 388.2 | 387.1 | 385.9 | 386.0 |
| 10°    | 390.1 | 389.5 | 389.0 | 388.4 | 387.9 | 386.7 | 385.2 | 383.6 | 382.0 | 380.4 | 380.2 |
| 12.5°  | 385.8 | 385.1 | 384.4 | 383.7 | 383.0 | 381.7 | 379.6 | 377.6 | 375.5 | 373.4 | 373.0 |
| 15°    | 378.2 | 377.3 | 376.4 | 375.6 | 374.7 | 372.9 | 370.2 | 367.5 | 364.7 | 362.0 | 360.5 |
| 17.5°  | 368.9 | 367.6 | 366.2 | 364.9 | 363.5 | 361.2 | 357.7 | 354.2 | 350.7 | 347.2 | 345.4 |
| 20°    | 362.0 | 360.4 | 358.9 | 357.2 | 355.6 | 352.8 | 348.8 | 344.8 | 340.9 | 336.8 | 334.9 |
| 22.5°  | 354.6 | 352.8 | 350.9 | 349.2 | 347.4 | 344.2 | 339.7 | 335.2 | 330.7 | 326.2 | 323.6 |
| 25°    | 343.3 | 340.7 | 338.2 | 335.6 | 333.1 | 329.2 | 323.8 | 318.6 | 313.3 | 308.1 | 304.8 |
| 27.5°  | 329.8 | 327.0 | 324.2 | 321.5 | 318.6 | 314.3 | 308.3 | 302.4 | 296.4 | 290.5 | 286.7 |
| 30°    | 320.3 | 317.3 | 314.2 | 311.2 | 308.2 | 303.4 | 297.0 | 290.7 | 284.2 | 277.8 | 273.8 |
| 32.5°  | 311.1 | 307.5 | 304.0 | 300.4 | 296.8 | 291.8 | 285.3 | 278.8 | 272.3 | 265.7 | 261.1 |
| 35°    | 295.8 | 291.8 | 287.6 | 283.6 | 279.5 | 273.9 | 266.9 | 259.8 | 252.9 | 245.8 | 240.7 |
| 37.5°  | 280.6 | 276.1 | 271.6 | 267.1 | 262.6 | 256.7 | 249.1 | 241.6 | 234.2 | 226.6 | 221.1 |
| 40°    | 269.9 | 265.1 | 260.3 | 255.5 | 250.7 | 244.5 | 236.7 | 228.9 | 221.2 | 213.4 | 207.7 |
| 42.5°  | 259.0 | 253.9 | 248.8 | 243.8 | 238.8 | 232.2 | 224.2 | 216.2 | 208.2 | 200.2 | 194.3 |
| 45°    | 241.9 | 236.5 | 231.1 | 225.8 | 220.4 | 213.5 | 205.1 | 196.7 | 188.3 | 179.9 | 174.3 |
| 47.5°  | 225.1 | 219.4 | 213.8 | 208.1 | 202.4 | 195.3 | 186.6 | 177.9 | 169.2 | 160.6 | 155.0 |
| 50°    | 213.0 | 207.4 | 201.7 | 196.0 | 190.4 | 183.1 | 174.3 | 165.5 | 156.7 | 147.9 | 142.4 |
| 52.5°  | 201.2 | 195.3 | 189.4 | 183.5 | 177.5 | 170.2 | 161.6 | 153.0 | 144.4 | 135.8 | 130.5 |
| 55°    | 183.9 | 177.7 | 171.4 | 165.2 | 158.9 | 151.5 | 142.8 | 134.2 | 125.6 | 116.9 | 112.2 |
| 57.5°  | 166.1 | 159.7 | 153.3 | 146.9 | 140.5 | 133.2 | 124.8 | 116.6 | 108.3 | 100.0 | 95.5  |
| 60°    | 154.0 | 147.7 | 141.2 | 134.8 | 128.4 | 121.1 | 112.9 | 104.6 | 96.4  | 88.2  | 84.1  |
| 62.5°  | 142.2 | 135.9 | 129.4 | 123.0 | 116.6 | 109.5 | 101.6 | 93.8  | 86.0  | 78.1  | 74.2  |
| 65°    | 124.1 | 117.6 | 111.2 | 104.7 | 98.2  | 91.4  | 84.2  | 77.0  | 69.8  | 62.6  | 59.9  |
| 67.5°  | 106.7 | 100.3 | 93.9  | 87.5  | 81.0  | 74.5  | 68.0  | 61.6  | 55.1  | 48.6  | 47.4  |
| 70°    | 94.7  | 88.4  | 82.1  | 76.0  | 69.7  | 63.8  | 58.3  | 52.8  | 47.3  | 41.7  | 41.0  |
| 72.5°  | 83.1  | 77.2  | 71.1  | 65.2  | 59.2  | 54.0  | 49.6  | 45.2  | 40.7  | 36.3  | 35.6  |
| 75°    | 66.2  | 60.6  | 55.1  | 49.4  | 43.8  | 39.7  | 36.9  | 34.2  | 31.5  | 28.8  | 28.2  |
| 77.5°  | 49.6  | 44.7  | 39.8  | 34.9  | 29.9  | 26.9  | 25.5  | 24.2  | 22.9  | 21.6  | 21.3  |
| 80°    | 39.2  | 35.2  | 31.1  | 27.0  | 22.9  | 20.4  | 19.6  | 18.9  | 18.1  | 17.3  | 17.0  |
| 82.5°  | 29.7  | 26.5  | 23.4  | 20.2  | 17.0  | 15.1  | 14.6  | 14.0  | 13.5  | 13.0  | 12.8  |
| 85°    | 15.4  | 13.8  | 12.1  | 10.5  | 8.8   | 7.8   | 7.5   | 7.3   | 7.1   | 6.8   | 6.8   |
| 87.5°  | 4.8   | 4.7   | 4.6   | 4.5   | 4.4   | 4.8   | 5.5   | 6.3   | 7.1   | 7.8   | 7.7   |
| 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°     | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 |
| 2.5°   | 395.8 | 396.4 | 397.0 | 397.3 | 397.2 | 397.0 | 396.9 | 396.8 |
| 5°     | 392.6 | 393.3 | 394.0 | 394.3 | 394.0 | 393.8 | 393.6 | 393.3 |
| 7.5°   | 386.3 | 386.5 | 386.7 | 386.6 | 386.2 | 385.7 | 385.3 | 384.9 |
| 10°    | 379.9 | 379.7 | 379.5 | 379.1 | 378.6 | 378.1 | 377.6 | 377.2 |
| 12.5°  | 372.6 | 372.2 | 371.8 | 371.1 | 370.3 | 369.6 | 368.8 | 368.0 |
| 15°    | 359.0 | 357.4 | 355.9 | 354.8 | 354.0 | 353.2 | 352.4 | 351.6 |
| 17.5°  | 343.6 | 341.7 | 340.0 | 338.4 | 337.0 | 335.6 | 334.2 | 332.9 |
| 20°    | 332.9 | 330.8 | 328.8 | 326.9 | 325.2 | 323.4 | 321.7 | 320.0 |
| 22.5°  | 321.1 | 318.5 | 315.9 | 313.9 | 312.6 | 311.3 | 310.0 | 308.7 |
| 25°    | 301.5 | 298.2 | 294.9 | 292.7 | 291.5 | 290.3 | 289.1 | 287.9 |
| 27.5°  | 282.8 | 279.0 | 275.2 | 272.4 | 270.5 | 268.5 | 266.6 | 264.7 |
| 30°    | 269.7 | 265.6 | 261.5 | 258.4 | 256.2 | 254.1 | 251.9 | 249.8 |
| 32.5°  | 256.4 | 251.8 | 247.1 | 243.8 | 241.8 | 239.7 | 237.7 | 235.7 |
| 35°    | 235.8 | 230.7 | 225.6 | 222.2 | 220.5 | 218.7 | 217.0 | 215.2 |
| 37.5°  | 215.6 | 210.0 | 204.5 | 200.7 | 198.7 | 196.6 | 194.6 | 192.6 |
| 40°    | 202.1 | 196.4 | 190.7 | 186.8 | 184.7 | 182.7 | 180.5 | 178.5 |
| 42.5°  | 188.4 | 182.5 | 176.7 | 172.8 | 170.7 | 168.7 | 166.7 | 164.7 |
| 45°    | 168.6 | 162.9 | 157.2 | 153.4 | 151.5 | 149.6 | 147.7 | 145.8 |
| 47.5°  | 149.2 | 143.6 | 138.0 | 134.3 | 132.5 | 130.8 | 129.0 | 127.3 |
| 50°    | 136.9 | 131.3 | 125.8 | 122.2 | 120.6 | 118.9 | 117.2 | 115.5 |
| 52.5°  | 125.2 | 119.9 | 114.5 | 111.1 | 109.6 | 108.0 | 106.4 | 104.9 |
| 55°    | 107.3 | 102.6 | 97.8  | 94.6  | 93.1  | 91.6  | 90.1  | 88.6  |
| 57.5°  | 91.2  | 86.7  | 82.4  | 79.5  | 78.3  | 77.0  | 75.7  | 74.4  |
| 60°    | 80.0  | 76.0  | 71.9  | 69.2  | 67.9  | 66.6  | 65.4  | 64.1  |
| 62.5°  | 70.3  | 66.5  | 62.6  | 60.2  | 59.4  | 58.7  | 57.9  | 57.1  |
| 65°    | 57.2  | 54.4  | 51.7  | 50.2  | 50.0  | 49.7  | 49.5  | 49.3  |
| 67.5°  | 46.2  | 44.9  | 43.6  | 42.9  | 42.6  | 42.4  | 42.1  | 41.9  |
| 70°    | 40.2  | 39.4  | 38.6  | 38.0  | 37.6  | 37.3  | 37.0  | 36.7  |
| 72.5°  | 34.9  | 34.2  | 33.6  | 33.2  | 33.0  | 32.8  | 32.6  | 32.4  |
| 75°    | 27.6  | 27.1  | 26.5  | 26.2  | 26.1  | 26.1  | 26.0  | 25.9  |
| 77.5°  | 20.9  | 20.6  | 20.3  | 20.1  | 20.0  | 19.8  | 19.7  | 19.6  |
| 80°    | 16.6  | 16.3  | 16.0  | 15.8  | 15.8  | 15.8  | 15.8  | 15.8  |
| 82.5°  | 12.6  | 12.4  | 12.2  | 12.1  | 12.1  | 12.1  | 12.1  | 12.1  |
| 85°    | 6.8   | 6.8   | 6.8   | 6.8   | 6.8   | 6.8   | 6.8   | 6.8   |
| 87.5°  | 7.6   | 7.4   | 7.3   | 7.3   | 7.3   | 7.3   | 7.4   | 7.4   |
| 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: P331637-927

CATALOG NUMBER: SA2XXRDIP-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)