

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: P331636-927

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

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331636-927  
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: SA2XXRDIP-C290D925U927-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 925 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3750.5 lumens  
Efficiency: N/A  
Efficacy: 100.5 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

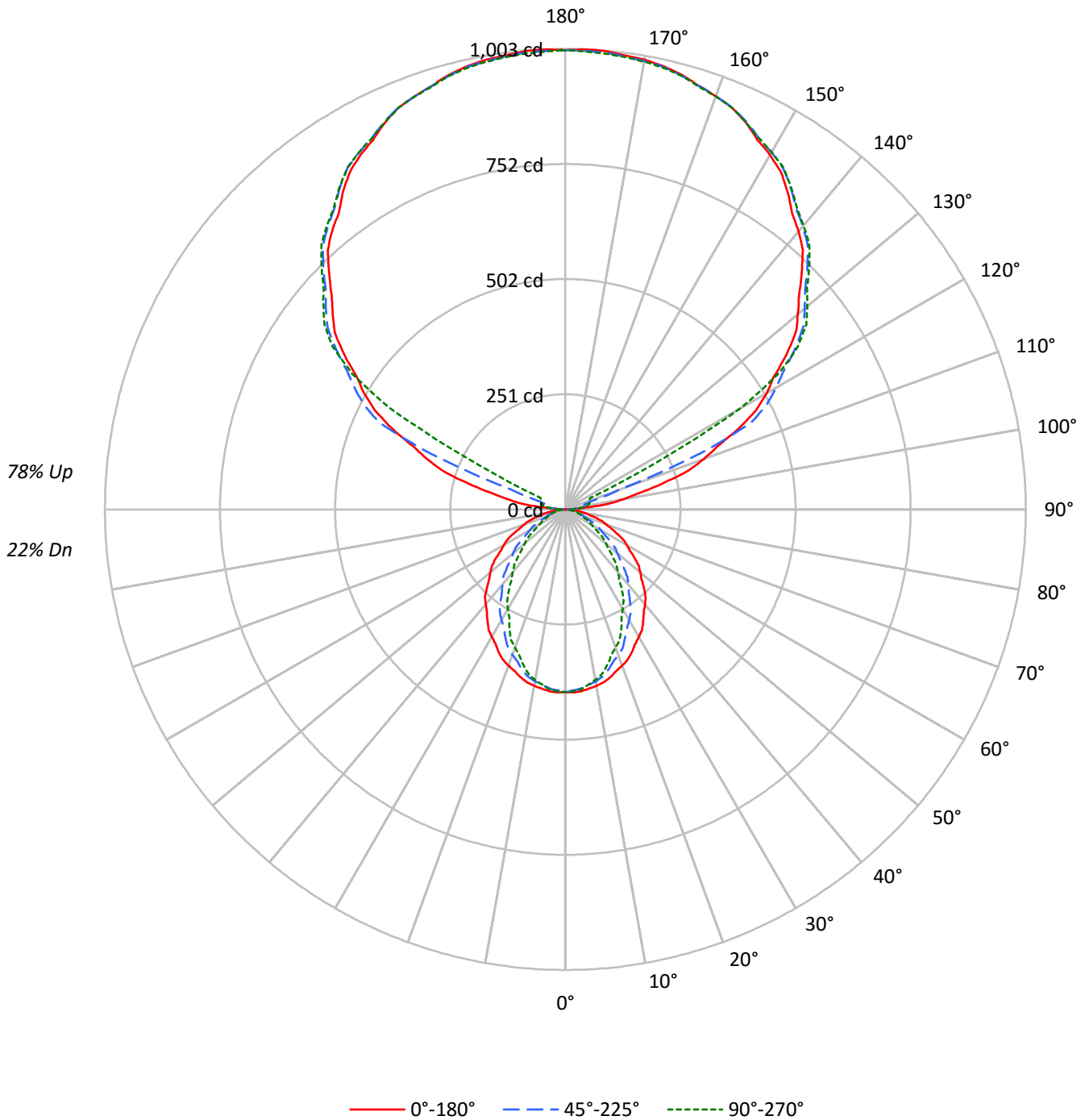
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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   | 100 | 100 | 100 | 100 | 89 | 89 | 89 | 89 | 68 | 68 | 68 | 48 | 48 | 48 | 30 | 30 | 30 | 22 |
| 1   | 92  | 88  | 84  | 81  | 81 | 78 | 75 | 72 | 59 | 57 | 56 | 43 | 41 | 40 | 27 | 26 | 26 | 19 |
| 2   | 84  | 77  | 71  | 66  | 74 | 68 | 63 | 59 | 52 | 49 | 46 | 38 | 36 | 34 | 24 | 23 | 22 | 16 |
| 3   | 76  | 67  | 61  | 55  | 67 | 60 | 54 | 50 | 46 | 42 | 39 | 33 | 31 | 29 | 21 | 20 | 19 | 14 |
| 4   | 70  | 60  | 52  | 47  | 62 | 53 | 47 | 42 | 41 | 37 | 33 | 30 | 27 | 25 | 19 | 18 | 17 | 12 |
| 5   | 64  | 53  | 46  | 40  | 57 | 47 | 41 | 36 | 37 | 32 | 29 | 27 | 24 | 22 | 17 | 16 | 14 | 11 |
| 6   | 59  | 48  | 40  | 34  | 52 | 43 | 36 | 31 | 33 | 28 | 25 | 24 | 21 | 19 | 16 | 14 | 13 | 9  |
| 7   | 54  | 43  | 35  | 30  | 48 | 38 | 32 | 27 | 30 | 25 | 22 | 22 | 19 | 17 | 14 | 13 | 11 | 8  |
| 8   | 50  | 39  | 31  | 26  | 45 | 35 | 28 | 24 | 27 | 23 | 19 | 20 | 17 | 15 | 13 | 12 | 10 | 8  |
| 9   | 47  | 35  | 28  | 23  | 41 | 32 | 26 | 21 | 25 | 20 | 17 | 18 | 15 | 13 | 12 | 11 | 9  | 7  |
| 10  | 44  | 32  | 25  | 21  | 39 | 29 | 23 | 19 | 23 | 18 | 15 | 17 | 14 | 12 | 11 | 10 | 8  | 6  |

**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   | 1.0       |
| 10°-20°   | 102.2  | 2.7       |
| 20°-30°   | 143.5  | 3.8       |
| 30°-40°   | 156.5  | 4.2       |
| 40°-50°   | 143.9  | 3.8       |
| 50°-60°   | 113.0  | 3.0       |
| 60°-70°   | 73.7   | 2.0       |
| 70°-80°   | 38.0   | 1.0       |
| 80°-90°   | 12.3   | 0.3       |
| 90°-100°  | 33.4   | 0.9       |
| 100°-110° | 122.3  | 3.3       |
| 110°-120° | 326.9  | 8.7       |
| 120°-130° | 539.7  | 14.4      |
| 130°-140° | 574.0  | 15.3      |
| 140°-150° | 533.5  | 14.2      |
| 150°-160° | 428.9  | 11.4      |
| 160°-170° | 276.4  | 7.4       |
| 170°-180° | 95.1   | 2.5       |
| 0°-30°    | 282.9  | 7.5       |
| 0°-40°    | 439.4  | 11.7      |
| 0°-60°    | 696.4  | 18.6      |
| 0°-90°    | 820.3  | 21.9      |
| 90°-120°  | 482.6  | 12.9      |
| 90°-150°  | 2129.7 | 56.8      |
| 90°-180°  | 2930.0 | 78.1      |
| 0°-180°   | 3750.5 | 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    | 9     | 14   | 18    | 20   | 3    |
| 95°  | 47   | 25    | 28   | 32    | 31   | 58   |
| 105° | 220  | 229   | 44   | 52    | 55   | 235  |
| 115° | 416  | 429   | 446  | 127   | 59   | 409  |
| 125° | 588  | 598   | 611  | 616   | 619  | 524  |
| 135° | 728  | 739   | 746  | 753   | 752  | 562  |
| 145° | 844  | 844   | 856  | 860   | 857  | 528  |
| 155° | 930  | 924   | 932  | 936   | 930  | 428  |
| 165° | 980  | 976   | 978  | 982   | 978  | 277  |
| 175° | 1002 | 997   | 998  | 1003  | 996  | 95   |
| 180° | 1000 | 1000  | 1000 | 1000  | 1000 |      |



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**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   | 4.6   | 4.4   | 4.3   | 4.1   | 4.2   | 4.4   | 4.7   | 4.9   | 5.2   | 5.3   |
| 90°    | 0.7   | 2.5   | 4.3   | 6.0   | 7.8   | 9.3   | 10.6  | 11.9  | 13.2  | 14.5  | 15.3  |
| 92.5°  | 14.6  | 14.4  | 14.3  | 14.1  | 13.9  | 14.2  | 14.9  | 15.5  | 16.2  | 16.8  | 17.2  |
| 95°    | 47.1  | 41.7  | 36.4  | 31.1  | 25.8  | 23.7  | 24.9  | 26.0  | 27.1  | 28.2  | 29.0  |
| 97.5°  | 93.3  | 78.3  | 63.5  | 48.5  | 33.5  | 27.3  | 29.9  | 32.6  | 35.2  | 37.8  | 38.4  |
| 100°   | 128.1 | 106.0 | 84.0  | 61.9  | 39.9  | 30.3  | 33.0  | 35.8  | 38.5  | 41.3  | 42.5  |
| 102.5° | 166.3 | 161.6 | 156.9 | 152.3 | 147.6 | 133.9 | 111.0 | 88.1  | 65.3  | 42.4  | 44.0  |
| 105°   | 219.9 | 224.7 | 229.6 | 234.4 | 239.2 | 219.7 | 175.8 | 131.9 | 88.0  | 44.1  | 45.9  |
| 107.5° | 281.1 | 285.0 | 288.9 | 292.8 | 296.8 | 272.4 | 219.7 | 167.1 | 114.4 | 61.8  | 60.0  |
| 110°   | 320.5 | 323.9 | 327.3 | 330.7 | 334.0 | 312.4 | 266.0 | 219.5 | 173.1 | 126.6 | 110.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°    |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 357.5  | 360.5  | 363.5  | 366.5  | 369.5 | 365.3 | 353.8 | 342.3 | 330.8 | 319.3 | 260.7  |
| 115°   | 416.0  | 418.7  | 421.4  | 424.2  | 426.9 | 430.3 | 434.4 | 438.4 | 442.4 | 446.4 | 371.9  |
| 117.5° | 468.3  | 471.3  | 474.4  | 477.4  | 480.5 | 483.4 | 486.2 | 488.9 | 491.7 | 494.4 | 476.4  |
| 120°   | 506.4  | 508.8  | 511.3  | 513.7  | 516.1 | 518.7 | 521.7 | 524.5 | 527.4 | 530.3 | 532.3  |
| 122.5° | 538.8  | 541.4  | 543.9  | 546.4  | 549.0 | 551.8 | 555.0 | 558.2 | 561.3 | 564.5 | 565.6  |
| 125°   | 588.2  | 590.3  | 592.4  | 594.5  | 596.6 | 599.1 | 602.2 | 605.2 | 608.3 | 611.3 | 612.5  |
| 127.5° | 632.9  | 635.3  | 637.5  | 639.8  | 642.1 | 644.4 | 646.7 | 649.0 | 651.3 | 653.6 | 655.2  |
| 130°   | 661.3  | 663.8  | 666.4  | 669.0  | 671.5 | 673.8 | 675.5 | 677.2 | 679.1 | 680.8 | 682.5  |
| 132.5° | 690.2  | 692.4  | 694.6  | 696.8  | 698.9 | 700.9 | 702.7 | 704.5 | 706.2 | 708.0 | 709.6  |
| 135°   | 727.9  | 730.4  | 733.0  | 735.5  | 738.2 | 740.1 | 741.6 | 743.1 | 744.5 | 745.9 | 747.5  |
| 137.5° | 765.9  | 767.7  | 769.5  | 771.3  | 773.1 | 774.8 | 776.4 | 778.1 | 779.7 | 781.4 | 782.9  |
| 140°   | 790.8  | 792.1  | 793.4  | 794.6  | 795.9 | 797.5 | 799.2 | 801.0 | 802.8 | 804.5 | 806.0  |
| 142.5° | 811.6  | 812.8  | 814.0  | 815.1  | 816.3 | 817.8 | 819.8 | 821.9 | 823.9 | 825.9 | 827.3  |
| 145°   | 844.3  | 844.1  | 844.0  | 843.8  | 843.7 | 844.9 | 847.7 | 850.4 | 853.2 | 855.9 | 857.0  |
| 147.5° | 872.8  | 872.2  | 871.6  | 871.0  | 870.4 | 871.4 | 874.1 | 876.9 | 879.6 | 882.3 | 883.0  |
| 150°   | 891.4  | 890.3  | 889.1  | 888.0  | 886.8 | 887.6 | 890.2 | 892.7 | 895.3 | 897.9 | 898.8  |
| 152.5° | 907.0  | 905.7  | 904.4  | 903.2  | 902.0 | 902.5 | 905.0 | 907.4 | 909.9 | 912.4 | 913.3  |
| 155°   | 929.7  | 928.3  | 926.8  | 925.3  | 923.9 | 924.2 | 926.1 | 928.0 | 929.9 | 931.8 | 932.8  |
| 157.5° | 947.5  | 946.3  | 945.1  | 943.8  | 942.6 | 942.7 | 944.0 | 945.4 | 946.7 | 948.1 | 949.2  |
| 160°   | 957.9  | 957.0  | 956.0  | 955.0  | 954.0 | 954.0 | 955.0 | 956.0 | 957.0 | 957.9 | 958.9  |
| 162.5° | 967.2  | 966.2  | 965.3  | 964.2  | 963.3 | 963.2 | 964.1 | 964.9 | 965.7 | 966.6 | 967.7  |
| 165°   | 979.6  | 978.7  | 977.7  | 976.7  | 975.7 | 975.5 | 976.0 | 976.4 | 977.0 | 977.5 | 978.6  |
| 167.5° | 988.9  | 987.9  | 987.0  | 986.0  | 985.0 | 984.8 | 985.2 | 985.6 | 986.1 | 986.6 | 987.7  |
| 170°   | 994.1  | 993.1  | 992.1  | 991.2  | 990.2 | 989.9 | 990.2 | 990.5 | 990.9 | 991.2 | 992.3  |
| 172.5° | 997.5  | 996.6  | 995.6  | 994.7  | 993.7 | 993.4 | 993.7 | 994.0 | 994.3 | 994.7 | 995.8  |
| 175°   | 1002.0 | 1000.9 | 999.8  | 998.6  | 997.5 | 997.1 | 997.4 | 997.8 | 998.1 | 998.4 | 999.6  |
| 177.5° | 1002.7 | 1001.9 | 1001.0 | 1000.1 | 999.2 | 998.8 | 998.9 | 999.0 | 999.2 | 999.3 | 1000.2 |
| 180°   | 999.9  | 999.9  | 999.9  | 999.9  | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9  |



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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°  | 5.4   | 5.5   | 5.5   | 5.7   | 5.7   | 5.8   | 5.9   | 5.9   |
| 90°    | 16.1  | 16.9  | 17.7  | 18.2  | 18.5  | 18.9  | 19.3  | 19.6  |
| 92.5°  | 17.6  | 18.1  | 18.5  | 18.8  | 18.9  | 19.2  | 19.3  | 19.6  |
| 95°    | 29.8  | 30.7  | 31.4  | 31.8  | 31.6  | 31.4  | 31.3  | 31.1  |
| 97.5°  | 39.1  | 39.7  | 40.3  | 40.7  | 41.0  | 41.1  | 41.4  | 41.5  |
| 100°   | 43.8  | 45.1  | 46.4  | 47.2  | 47.5  | 47.8  | 48.2  | 48.5  |
| 102.5° | 45.7  | 47.5  | 49.1  | 50.1  | 50.6  | 51.0  | 51.5  | 52.0  |
| 105°   | 47.7  | 49.4  | 51.2  | 52.4  | 53.1  | 53.7  | 54.3  | 55.0  |
| 107.5° | 58.1  | 56.4  | 54.6  | 54.0  | 54.7  | 55.3  | 55.9  | 56.6  |
| 110°   | 94.4  | 78.3  | 62.3  | 54.6  | 55.2  | 55.8  | 56.5  | 57.2  |





TEST NUMBER: P331636-927

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

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°   | 90°   |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 112.5° | 202.1  | 143.4  | 84.8   | 55.7   | 56.2   | 56.7   | 57.2  | 57.8  |
| 115°   | 297.5  | 223.1  | 148.6  | 105.6  | 94.0   | 82.5   | 70.9  | 59.3  |
| 117.5° | 458.4  | 440.5  | 422.4  | 394.3  | 356.3  | 318.3  | 280.3 | 242.2 |
| 120°   | 534.2  | 536.1  | 538.1  | 528.1  | 506.4  | 484.7  | 463.0 | 441.3 |
| 122.5° | 566.8  | 567.9  | 569.1  | 567.6  | 563.4  | 559.1  | 554.9 | 550.7 |
| 125°   | 613.6  | 614.7  | 615.8  | 616.6  | 617.1  | 617.6  | 618.1 | 618.6 |
| 127.5° | 656.9  | 658.5  | 660.2  | 661.0  | 661.2  | 661.2  | 661.3 | 661.4 |
| 130°   | 684.4  | 686.1  | 687.9  | 688.7  | 688.6  | 688.3  | 688.2 | 688.0 |
| 132.5° | 711.1  | 712.6  | 714.1  | 714.7  | 714.5  | 714.4  | 714.2 | 714.1 |
| 135°   | 749.2  | 750.8  | 752.3  | 753.0  | 752.7  | 752.3  | 752.0 | 751.7 |
| 137.5° | 784.5  | 786.1  | 787.7  | 788.2  | 787.7  | 787.1  | 786.6 | 786.0 |
| 140°   | 807.4  | 808.9  | 810.3  | 810.6  | 809.8  | 809.1  | 808.3 | 807.4 |
| 142.5° | 828.5  | 829.9  | 831.2  | 831.5  | 830.7  | 829.9  | 829.1 | 828.2 |
| 145°   | 858.2  | 859.3  | 860.4  | 860.5  | 859.8  | 859.0  | 858.2 | 857.4 |
| 147.5° | 883.9  | 884.7  | 885.6  | 885.7  | 884.9  | 884.3  | 883.6 | 883.0 |
| 150°   | 899.8  | 900.8  | 901.7  | 901.8  | 901.0  | 900.2  | 899.4 | 898.6 |
| 152.5° | 914.3  | 915.2  | 916.2  | 916.2  | 915.0  | 914.0  | 913.0 | 911.9 |
| 155°   | 933.8  | 934.8  | 935.7  | 935.6  | 934.3  | 933.0  | 931.7 | 930.4 |
| 157.5° | 950.2  | 951.3  | 952.4  | 952.4  | 951.1  | 949.8  | 948.6 | 947.4 |
| 160°   | 959.8  | 960.8  | 961.8  | 961.7  | 960.5  | 959.4  | 958.3 | 957.2 |
| 162.5° | 968.8  | 969.9  | 971.0  | 970.8  | 969.5  | 968.0  | 966.7 | 965.3 |
| 165°   | 979.7  | 980.8  | 981.9  | 981.9  | 980.8  | 979.7  | 978.6 | 977.5 |
| 167.5° | 988.8  | 989.9  | 991.1  | 990.9  | 989.4  | 988.0  | 986.6 | 985.1 |
| 170°   | 993.5  | 994.6  | 995.7  | 995.5  | 994.1  | 992.6  | 991.2 | 989.8 |
| 172.5° | 996.9  | 998.1  | 999.2  | 999.0  | 997.5  | 996.1  | 994.7 | 993.2 |
| 175°   | 1000.7 | 1001.8 | 1002.9 | 1002.7 | 1001.1 | 999.5  | 997.8 | 996.2 |
| 177.5° | 1001.1 | 1002.0 | 1002.9 | 1002.7 | 1001.6 | 1000.4 | 999.3 | 998.1 |
| 180°   | 999.9  | 999.9  | 999.9  | 999.9  | 999.9  | 999.9  | 999.9 | 999.9 |

(END OF REPORT)