

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: P331775-930

Luminaire Tested: **S122RDIW-S290D970U930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331775-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S290D970U930-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 970 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3999.5 lumens  
Efficiency: N/A  
Efficacy: 105.3 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

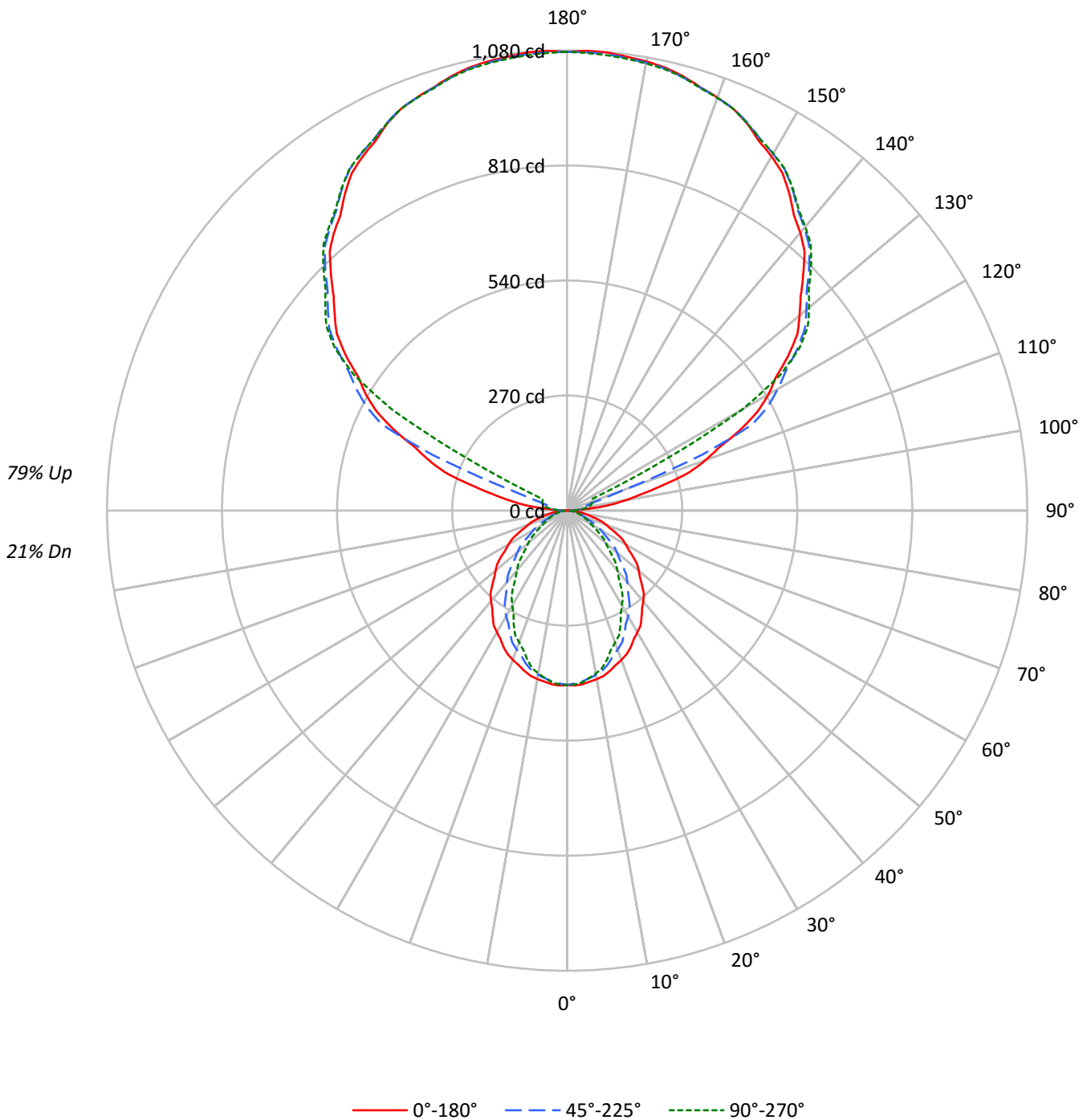
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331775-930

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### Luminous Intensity Polar Plot





TEST NUMBER: P331775-930

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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 | 67 | 67 | 67 | 48 | 48 | 48 | 30 | 30 | 30 | 21 |
| 1   | 92  | 87  | 84  | 81  | 81 | 78 | 75 | 72 | 59 | 57 | 55 | 42 | 41 | 40 | 26 | 26 | 25 | 18 |
| 2   | 83  | 77  | 71  | 66  | 74 | 68 | 63 | 59 | 52 | 49 | 46 | 37 | 35 | 34 | 23 | 22 | 22 | 16 |
| 3   | 76  | 67  | 61  | 55  | 67 | 60 | 54 | 50 | 46 | 42 | 39 | 33 | 31 | 29 | 21 | 20 | 19 | 13 |
| 4   | 70  | 60  | 52  | 47  | 61 | 53 | 47 | 42 | 41 | 37 | 33 | 29 | 27 | 25 | 19 | 17 | 16 | 12 |
| 5   | 64  | 53  | 45  | 40  | 56 | 47 | 41 | 36 | 36 | 32 | 29 | 26 | 24 | 21 | 17 | 15 | 14 | 10 |
| 6   | 59  | 47  | 40  | 34  | 52 | 42 | 36 | 31 | 33 | 28 | 25 | 24 | 21 | 19 | 15 | 14 | 12 | 9  |
| 7   | 54  | 43  | 35  | 30  | 48 | 38 | 32 | 27 | 30 | 25 | 22 | 22 | 19 | 16 | 14 | 12 | 11 | 8  |
| 8   | 50  | 39  | 31  | 26  | 44 | 35 | 28 | 24 | 27 | 22 | 19 | 20 | 17 | 15 | 13 | 11 | 10 | 7  |
| 9   | 47  | 35  | 28  | 23  | 41 | 32 | 25 | 21 | 25 | 20 | 17 | 18 | 15 | 13 | 12 | 10 | 9  | 7  |
| 10  | 43  | 32  | 25  | 21  | 39 | 29 | 23 | 19 | 23 | 18 | 15 | 17 | 14 | 12 | 11 | 9  | 8  | 6  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6608 | 6608 | 6608 |
| 5°  | 6634 | 6525 | 6561 |
| 10° | 6583 | 6419 | 6365 |
| 15° | 6506 | 6228 | 6048 |
| 20° | 6402 | 5957 | 5658 |
| 25° | 6296 | 5649 | 5279 |
| 30° | 6145 | 5330 | 4793 |
| 35° | 6000 | 4987 | 4366 |
| 40° | 5855 | 4628 | 3872 |
| 45° | 5683 | 4229 | 3425 |
| 50° | 5506 | 3823 | 2987 |
| 55° | 5326 | 3386 | 2567 |
| 60° | 5118 | 2929 | 2131 |
| 65° | 4883 | 2460 | 1937 |
| 70° | 4598 | 2030 | 1780 |
| 75° | 4255 | 1847 | 1666 |
| 80° | 3756 | 1655 | 1516 |
| 85° | 2946 | 1297 | 1297 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.3   | 1.0       |
| 10°-20°   | 105.2  | 2.6       |
| 20°-30°   | 147.7  | 3.7       |
| 30°-40°   | 161.1  | 4.0       |
| 40°-50°   | 148.1  | 3.7       |
| 50°-60°   | 116.3  | 2.9       |
| 60°-70°   | 75.8   | 1.9       |
| 70°-80°   | 39.1   | 1.0       |
| 80°-90°   | 12.8   | 0.3       |
| 90°-100°  | 35.9   | 0.9       |
| 100°-110° | 131.7  | 3.3       |
| 110°-120° | 352.0  | 8.8       |
| 120°-130° | 581.1  | 14.5      |
| 130°-140° | 618.0  | 15.5      |
| 140°-150° | 574.4  | 14.4      |
| 150°-160° | 461.8  | 11.5      |
| 160°-170° | 297.6  | 7.4       |
| 170°-180° | 102.4  | 2.6       |
| 0°-30°    | 291.2  | 7.3       |
| 0°-40°    | 452.3  | 11.3      |
| 0°-60°    | 716.7  | 17.9      |
| 0°-90°    | 844.4  | 21.1      |
| 90°-120°  | 519.7  | 13.0      |
| 90°-150°  | 2293.2 | 57.3      |
| 90°-180°  | 3155.0 | 78.9      |
| 0°-180°   | 3999.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 409  | 409   | 409  | 409   | 409  |      |
| 5°   | 409  | 407   | 403  | 406   | 405  | 39   |
| 15°  | 389  | 385   | 373  | 366   | 362  | 110  |
| 25°  | 353  | 341   | 317  | 302   | 296  | 162  |
| 35°  | 304  | 285   | 253  | 230   | 222  | 190  |
| 45°  | 249  | 223   | 185  | 160   | 150  | 192  |
| 55°  | 189  | 160   | 120  | 99    | 91   | 169  |
| 65°  | 128  | 98    | 64   | 52    | 51   | 127  |
| 75°  | 68   | 43    | 30   | 27    | 27   | 72   |
| 85°  | 16   | 8     | 7    | 7     | 7    | 19   |
| 90°  | 1    | 9     | 16   | 19    | 21   | 3    |
| 95°  | 51   | 27    | 30   | 34    | 34   | 62   |
| 105° | 237  | 247   | 48   | 56    | 59   | 253  |
| 115° | 448  | 462   | 481  | 137   | 64   | 441  |
| 125° | 633  | 644   | 658  | 664   | 666  | 565  |
| 135° | 784  | 796   | 803  | 810   | 809  | 605  |
| 145° | 909  | 909   | 922  | 927   | 923  | 568  |
| 155° | 1001 | 995   | 1003 | 1007  | 1002 | 461  |
| 165° | 1055 | 1051  | 1052 | 1057  | 1052 | 298  |
| 175° | 1079 | 1074  | 1075 | 1080  | 1073 | 103  |
| 180° | 1077 | 1077  | 1077 | 1077  | 1077 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 |
| 2.5°   | 410.7 | 410.4 | 410.1 | 409.8 | 409.4 | 408.9 | 408.1 | 407.5 | 406.8 | 406.0 | 406.7 |
| 5°     | 409.3 | 408.9 | 408.5 | 408.1 | 407.6 | 406.8 | 405.8 | 404.7 | 403.7 | 402.6 | 403.3 |
| 7.5°   | 405.0 | 404.6 | 404.0 | 403.5 | 403.0 | 402.1 | 400.9 | 399.6 | 398.4 | 397.1 | 397.3 |
| 10°    | 401.5 | 400.9 | 400.3 | 399.7 | 399.2 | 398.0 | 396.4 | 394.8 | 393.1 | 391.5 | 391.3 |
| 12.5°  | 397.1 | 396.3 | 395.6 | 394.9 | 394.2 | 392.8 | 390.7 | 388.6 | 386.5 | 384.3 | 383.9 |
| 15°    | 389.2 | 388.3 | 387.4 | 386.5 | 385.6 | 383.8 | 381.0 | 378.2 | 375.4 | 372.6 | 371.0 |
| 17.5°  | 379.7 | 378.3 | 376.9 | 375.5 | 374.1 | 371.7 | 368.1 | 364.5 | 360.9 | 357.3 | 355.5 |
| 20°    | 372.6 | 371.0 | 369.3 | 367.6 | 366.0 | 363.1 | 359.0 | 354.9 | 350.8 | 346.7 | 344.6 |
| 22.5°  | 364.9 | 363.1 | 361.2 | 359.4 | 357.5 | 354.2 | 349.6 | 345.0 | 340.4 | 335.7 | 333.0 |
| 25°    | 353.4 | 350.7 | 348.1 | 345.4 | 342.8 | 338.8 | 333.3 | 327.9 | 322.5 | 317.1 | 313.6 |
| 27.5°  | 339.4 | 336.6 | 333.7 | 330.8 | 327.9 | 323.4 | 317.3 | 311.2 | 305.1 | 299.0 | 295.1 |
| 30°    | 329.6 | 326.5 | 323.3 | 320.2 | 317.2 | 312.3 | 305.7 | 299.1 | 292.5 | 285.9 | 281.8 |
| 32.5°  | 320.2 | 316.5 | 312.8 | 309.2 | 305.5 | 300.4 | 293.7 | 286.9 | 280.2 | 273.5 | 268.7 |
| 35°    | 304.4 | 300.3 | 296.0 | 291.9 | 287.6 | 281.9 | 274.7 | 267.4 | 260.2 | 253.0 | 247.8 |
| 37.5°  | 288.8 | 284.1 | 279.5 | 274.9 | 270.3 | 264.2 | 256.4 | 248.7 | 241.0 | 233.3 | 227.6 |
| 40°    | 277.8 | 272.9 | 267.9 | 262.9 | 258.0 | 251.6 | 243.6 | 235.6 | 227.6 | 219.6 | 213.8 |
| 42.5°  | 266.5 | 261.3 | 256.1 | 250.9 | 245.7 | 239.0 | 230.7 | 222.5 | 214.3 | 206.0 | 200.0 |
| 45°    | 248.9 | 243.4 | 237.8 | 232.4 | 226.8 | 219.7 | 211.1 | 202.4 | 193.8 | 185.2 | 179.4 |
| 47.5°  | 231.7 | 225.8 | 220.0 | 214.2 | 208.3 | 201.0 | 192.0 | 183.1 | 174.1 | 165.3 | 159.5 |
| 50°    | 219.2 | 213.4 | 207.6 | 201.7 | 195.9 | 188.4 | 179.4 | 170.3 | 161.3 | 152.2 | 146.5 |
| 52.5°  | 207.1 | 201.0 | 194.9 | 188.8 | 182.7 | 175.2 | 166.3 | 157.5 | 148.6 | 139.7 | 134.3 |
| 55°    | 189.2 | 182.9 | 176.4 | 170.0 | 163.5 | 156.0 | 147.0 | 138.1 | 129.2 | 120.3 | 115.4 |
| 57.5°  | 171.0 | 164.4 | 157.8 | 151.2 | 144.6 | 137.1 | 128.5 | 120.0 | 111.5 | 102.9 | 98.3  |
| 60°    | 158.5 | 152.0 | 145.4 | 138.8 | 132.2 | 124.7 | 116.2 | 107.7 | 99.2  | 90.7  | 86.5  |
| 62.5°  | 146.3 | 139.8 | 133.2 | 126.6 | 120.0 | 112.7 | 104.6 | 96.5  | 88.5  | 80.4  | 76.4  |
| 65°    | 127.8 | 121.1 | 114.5 | 107.8 | 101.1 | 94.1  | 86.7  | 79.2  | 71.8  | 64.4  | 61.6  |
| 67.5°  | 109.8 | 103.2 | 96.6  | 90.0  | 83.4  | 76.7  | 70.0  | 63.4  | 56.7  | 50.1  | 48.8  |
| 70°    | 97.4  | 91.0  | 84.5  | 78.2  | 71.7  | 65.7  | 60.0  | 54.3  | 48.7  | 43.0  | 42.2  |
| 72.5°  | 85.5  | 79.4  | 73.2  | 67.1  | 60.9  | 55.6  | 51.0  | 46.5  | 41.9  | 37.3  | 36.6  |
| 75°    | 68.2  | 62.4  | 56.7  | 50.9  | 45.1  | 40.8  | 38.0  | 35.2  | 32.4  | 29.6  | 29.0  |
| 77.5°  | 51.0  | 46.0  | 40.9  | 35.9  | 30.8  | 27.6  | 26.3  | 24.9  | 23.6  | 22.3  | 21.9  |
| 80°    | 40.4  | 36.2  | 32.0  | 27.8  | 23.6  | 21.0  | 20.2  | 19.4  | 18.6  | 17.8  | 17.4  |
| 82.5°  | 30.6  | 27.3  | 24.1  | 20.8  | 17.5  | 15.6  | 15.0  | 14.4  | 13.9  | 13.4  | 13.1  |
| 85°    | 15.9  | 14.2  | 12.5  | 10.8  | 9.0   | 8.0   | 7.7   | 7.5   | 7.3   | 7.0   | 7.0   |
| 87.5°  | 4.9   | 4.7   | 4.6   | 4.5   | 4.3   | 4.4   | 4.6   | 5.0   | 5.2   | 5.5   | 5.6   |
| 90°    | 0.8   | 2.7   | 4.6   | 6.5   | 8.4   | 10.0  | 11.4  | 12.8  | 14.2  | 15.6  | 16.5  |
| 92.5°  | 15.7  | 15.6  | 15.4  | 15.2  | 15.1  | 15.3  | 16.0  | 16.7  | 17.4  | 18.1  | 18.5  |
| 95°    | 50.6  | 44.9  | 39.2  | 33.5  | 27.8  | 25.5  | 26.7  | 28.0  | 29.2  | 30.4  | 31.2  |
| 97.5°  | 100.5 | 84.4  | 68.3  | 52.2  | 36.1  | 29.4  | 32.3  | 35.1  | 37.8  | 40.7  | 41.3  |
| 100°   | 137.9 | 114.1 | 90.4  | 66.8  | 43.0  | 32.6  | 35.5  | 38.5  | 41.5  | 44.4  | 45.8  |
| 102.5° | 179.0 | 174.0 | 169.0 | 164.0 | 158.9 | 144.1 | 119.5 | 94.9  | 70.3  | 45.7  | 47.5  |
| 105°   | 236.8 | 242.1 | 247.2 | 252.4 | 257.6 | 236.6 | 189.3 | 142.0 | 94.8  | 47.5  | 49.4  |
| 107.5° | 302.7 | 307.0 | 311.1 | 315.3 | 319.5 | 293.3 | 236.6 | 179.9 | 123.2 | 66.5  | 64.6  |
| 110°   | 345.1 | 348.8 | 352.4 | 356.0 | 359.6 | 336.5 | 286.4 | 236.4 | 186.4 | 136.3 | 119.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 385.0  | 388.2  | 391.4  | 394.7  | 397.9  | 393.3  | 381.0  | 368.6  | 356.2  | 343.9  | 280.7  |
| 115°   | 447.9  | 450.9  | 453.9  | 456.8  | 459.7  | 463.3  | 467.7  | 472.0  | 476.4  | 480.7  | 400.5  |
| 117.5° | 504.2  | 507.5  | 510.8  | 514.0  | 517.4  | 520.5  | 523.5  | 526.4  | 529.5  | 532.4  | 513.0  |
| 120°   | 545.4  | 548.0  | 550.5  | 553.1  | 555.7  | 558.6  | 561.7  | 564.8  | 567.9  | 571.0  | 573.2  |
| 122.5° | 580.2  | 582.9  | 585.7  | 588.4  | 591.2  | 594.3  | 597.6  | 601.0  | 604.4  | 607.8  | 609.0  |
| 125°   | 633.3  | 635.6  | 637.9  | 640.1  | 642.4  | 645.1  | 648.4  | 651.8  | 655.0  | 658.3  | 659.5  |
| 127.5° | 681.5  | 684.0  | 686.5  | 689.0  | 691.5  | 694.0  | 696.4  | 698.9  | 701.3  | 703.8  | 705.6  |
| 130°   | 712.1  | 714.9  | 717.6  | 720.3  | 723.1  | 725.5  | 727.3  | 729.3  | 731.2  | 733.1  | 735.0  |
| 132.5° | 743.2  | 745.6  | 748.0  | 750.2  | 752.6  | 754.7  | 756.7  | 758.6  | 760.4  | 762.4  | 764.0  |
| 135°   | 783.7  | 786.5  | 789.3  | 792.1  | 794.8  | 797.0  | 798.5  | 800.1  | 801.6  | 803.2  | 804.9  |
| 137.5° | 824.7  | 826.6  | 828.6  | 830.5  | 832.4  | 834.3  | 836.1  | 837.8  | 839.6  | 841.4  | 843.1  |
| 140°   | 851.5  | 852.9  | 854.3  | 855.7  | 857.0  | 858.7  | 860.5  | 862.5  | 864.4  | 866.3  | 867.9  |
| 142.5° | 873.9  | 875.1  | 876.4  | 877.7  | 878.9  | 880.6  | 882.8  | 885.0  | 887.2  | 889.3  | 890.8  |
| 145°   | 909.1  | 909.0  | 908.8  | 908.7  | 908.5  | 909.9  | 912.8  | 915.7  | 918.7  | 921.6  | 922.8  |
| 147.5° | 939.9  | 939.1  | 938.5  | 937.8  | 937.2  | 938.3  | 941.3  | 944.1  | 947.1  | 950.0  | 950.9  |
| 150°   | 959.8  | 958.5  | 957.3  | 956.2  | 955.0  | 955.7  | 958.5  | 961.2  | 964.0  | 966.8  | 967.8  |
| 152.5° | 976.6  | 975.3  | 973.9  | 972.6  | 971.2  | 971.8  | 974.4  | 977.1  | 979.7  | 982.4  | 983.4  |
| 155°   | 1001.1 | 999.5  | 997.9  | 996.4  | 994.8  | 995.1  | 997.2  | 999.2  | 1001.4 | 1003.4 | 1004.4 |
| 157.5° | 1020.3 | 1019.0 | 1017.6 | 1016.3 | 1015.0 | 1015.0 | 1016.5 | 1018.0 | 1019.4 | 1020.8 | 1022.1 |
| 160°   | 1031.4 | 1030.5 | 1029.4 | 1028.3 | 1027.3 | 1027.3 | 1028.3 | 1029.4 | 1030.5 | 1031.4 | 1032.5 |
| 162.5° | 1041.5 | 1040.4 | 1039.3 | 1038.3 | 1037.3 | 1037.2 | 1038.1 | 1039.0 | 1039.9 | 1040.8 | 1042.0 |
| 165°   | 1054.8 | 1053.8 | 1052.7 | 1051.7 | 1050.7 | 1050.4 | 1050.9 | 1051.4 | 1052.0 | 1052.5 | 1053.7 |
| 167.5° | 1064.8 | 1063.7 | 1062.7 | 1061.7 | 1060.6 | 1060.4 | 1060.9 | 1061.4 | 1061.8 | 1062.3 | 1063.5 |
| 170°   | 1070.4 | 1069.3 | 1068.4 | 1067.3 | 1066.2 | 1065.9 | 1066.2 | 1066.6 | 1067.0 | 1067.3 | 1068.5 |
| 172.5° | 1074.2 | 1073.1 | 1072.0 | 1071.1 | 1070.0 | 1069.7 | 1070.0 | 1070.3 | 1070.7 | 1071.1 | 1072.3 |
| 175°   | 1079.0 | 1077.7 | 1076.5 | 1075.4 | 1074.2 | 1073.7 | 1074.1 | 1074.4 | 1074.7 | 1075.1 | 1076.3 |
| 177.5° | 1079.8 | 1078.8 | 1077.8 | 1076.8 | 1075.9 | 1075.5 | 1075.6 | 1075.7 | 1075.9 | 1076.0 | 1077.0 |
| 180°   | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 | 409.3 |
| 2.5°   | 407.3 | 408.0 | 408.6 | 408.9 | 408.8 | 408.6 | 408.5 | 408.4 |
| 5°     | 404.1 | 404.8 | 405.5 | 405.8 | 405.5 | 405.3 | 405.0 | 404.8 |
| 7.5°   | 397.5 | 397.8 | 397.9 | 397.9 | 397.5 | 397.0 | 396.6 | 396.2 |
| 10°    | 391.0 | 390.8 | 390.5 | 390.1 | 389.6 | 389.1 | 388.7 | 388.2 |
| 12.5°  | 383.5 | 383.0 | 382.6 | 382.0 | 381.2 | 380.3 | 379.5 | 378.7 |
| 15°    | 369.5 | 367.9 | 366.3 | 365.2 | 364.4 | 363.5 | 362.6 | 361.8 |
| 17.5°  | 353.6 | 351.7 | 349.9 | 348.3 | 346.8 | 345.4 | 344.0 | 342.6 |
| 20°    | 342.6 | 340.5 | 338.4 | 336.5 | 334.7 | 332.9 | 331.1 | 329.3 |
| 22.5°  | 330.4 | 327.8 | 325.1 | 323.1 | 321.7 | 320.4 | 319.0 | 317.7 |
| 25°    | 310.3 | 306.9 | 303.5 | 301.3 | 300.0 | 298.7 | 297.5 | 296.3 |
| 27.5°  | 291.1 | 287.1 | 283.2 | 280.3 | 278.3 | 276.4 | 274.4 | 272.5 |
| 30°    | 277.5 | 273.4 | 269.1 | 266.0 | 263.7 | 261.5 | 259.3 | 257.1 |
| 32.5°  | 263.9 | 259.1 | 254.3 | 250.9 | 248.8 | 246.7 | 244.6 | 242.6 |
| 35°    | 242.6 | 237.4 | 232.2 | 228.7 | 226.9 | 225.1 | 223.3 | 221.5 |
| 37.5°  | 221.8 | 216.1 | 210.4 | 206.5 | 204.5 | 202.4 | 200.3 | 198.2 |
| 40°    | 208.0 | 202.1 | 196.2 | 192.2 | 190.1 | 188.0 | 185.8 | 183.7 |
| 42.5°  | 193.9 | 187.8 | 181.8 | 177.8 | 175.7 | 173.7 | 171.5 | 169.5 |
| 45°    | 173.5 | 167.6 | 161.8 | 157.9 | 156.0 | 153.9 | 152.0 | 150.0 |
| 47.5°  | 153.6 | 147.8 | 142.0 | 138.2 | 136.4 | 134.6 | 132.8 | 131.0 |
| 50°    | 140.9 | 135.2 | 129.5 | 125.8 | 124.1 | 122.4 | 120.6 | 118.9 |
| 52.5°  | 128.8 | 123.4 | 117.9 | 114.3 | 112.8 | 111.1 | 109.5 | 107.9 |
| 55°    | 110.5 | 105.6 | 100.6 | 97.3  | 95.8  | 94.2  | 92.7  | 91.2  |
| 57.5°  | 93.8  | 89.3  | 84.8  | 81.9  | 80.6  | 79.2  | 77.9  | 76.6  |
| 60°    | 82.3  | 78.2  | 73.9  | 71.2  | 69.9  | 68.6  | 67.3  | 66.0  |
| 62.5°  | 72.4  | 68.4  | 64.4  | 62.0  | 61.1  | 60.4  | 59.6  | 58.8  |
| 65°    | 58.9  | 56.0  | 53.2  | 51.7  | 51.4  | 51.2  | 51.0  | 50.7  |
| 67.5°  | 47.5  | 46.2  | 44.9  | 44.2  | 43.9  | 43.6  | 43.4  | 43.1  |
| 70°    | 41.3  | 40.5  | 39.7  | 39.1  | 38.7  | 38.4  | 38.1  | 37.7  |
| 72.5°  | 36.0  | 35.2  | 34.6  | 34.2  | 33.9  | 33.8  | 33.5  | 33.3  |
| 75°    | 28.5  | 27.9  | 27.3  | 27.0  | 26.9  | 26.8  | 26.7  | 26.7  |
| 77.5°  | 21.5  | 21.2  | 20.9  | 20.7  | 20.5  | 20.4  | 20.3  | 20.1  |
| 80°    | 17.1  | 16.8  | 16.5  | 16.3  | 16.3  | 16.3  | 16.3  | 16.3  |
| 82.5°  | 13.0  | 12.7  | 12.6  | 12.5  | 12.5  | 12.5  | 12.5  | 12.5  |
| 85°    | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |
| 87.5°  | 5.7   | 5.8   | 6.0   | 6.0   | 6.0   | 6.1   | 6.2   | 6.3   |
| 90°    | 17.3  | 18.2  | 19.1  | 19.6  | 20.0  | 20.3  | 20.7  | 21.0  |
| 92.5°  | 19.0  | 19.4  | 19.9  | 20.2  | 20.4  | 20.6  | 20.8  | 21.0  |
| 95°    | 32.1  | 33.0  | 33.8  | 34.2  | 34.0  | 33.8  | 33.7  | 33.5  |
| 97.5°  | 42.1  | 42.7  | 43.5  | 43.9  | 44.1  | 44.3  | 44.5  | 44.7  |
| 100°   | 47.2  | 48.6  | 50.0  | 50.8  | 51.1  | 51.5  | 51.9  | 52.2  |
| 102.5° | 49.2  | 51.0  | 52.8  | 54.0  | 54.5  | 55.0  | 55.4  | 55.9  |
| 105°   | 51.4  | 53.2  | 55.1  | 56.4  | 57.2  | 57.8  | 58.5  | 59.2  |
| 107.5° | 62.6  | 60.7  | 58.8  | 58.1  | 58.9  | 59.5  | 60.3  | 60.9  |
| 110°   | 101.7 | 84.4  | 67.1  | 58.8  | 59.4  | 60.2  | 60.8  | 61.6  |





TEST NUMBER: P331775-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 217.5  | 154.4  | 91.2   | 59.9   | 60.5   | 61.1   | 61.6   | 62.2   |
| 115°   | 320.3  | 240.2  | 160.0  | 113.7  | 101.3  | 88.8   | 76.3   | 63.9   |
| 117.5° | 493.6  | 474.3  | 454.9  | 424.7  | 383.7  | 342.8  | 301.8  | 260.8  |
| 120°   | 575.2  | 577.2  | 579.4  | 568.7  | 545.4  | 522.0  | 498.6  | 475.2  |
| 122.5° | 610.3  | 611.6  | 612.8  | 611.1  | 606.6  | 602.1  | 597.5  | 593.0  |
| 125°   | 660.7  | 661.9  | 663.2  | 664.0  | 664.6  | 665.0  | 665.5  | 666.1  |
| 127.5° | 707.4  | 709.1  | 710.9  | 711.8  | 711.9  | 712.0  | 712.1  | 712.2  |
| 130°   | 736.9  | 738.8  | 740.7  | 741.6  | 741.4  | 741.2  | 741.0  | 740.9  |
| 132.5° | 765.6  | 767.3  | 768.9  | 769.6  | 769.4  | 769.2  | 769.1  | 768.9  |
| 135°   | 806.7  | 808.4  | 810.1  | 810.8  | 810.5  | 810.1  | 809.8  | 809.4  |
| 137.5° | 844.7  | 846.4  | 848.2  | 848.7  | 848.2  | 847.5  | 846.9  | 846.4  |
| 140°   | 869.4  | 871.0  | 872.5  | 872.9  | 872.0  | 871.1  | 870.3  | 869.4  |
| 142.5° | 892.2  | 893.6  | 895.0  | 895.3  | 894.5  | 893.6  | 892.8  | 891.9  |
| 145°   | 924.1  | 925.3  | 926.4  | 926.7  | 925.8  | 924.9  | 924.1  | 923.2  |
| 147.5° | 951.8  | 952.7  | 953.6  | 953.7  | 952.9  | 952.2  | 951.5  | 950.7  |
| 150°   | 968.9  | 969.9  | 970.9  | 971.0  | 970.2  | 969.3  | 968.4  | 967.6  |
| 152.5° | 984.5  | 985.5  | 986.5  | 986.5  | 985.4  | 984.2  | 983.1  | 981.9  |
| 155°   | 1005.5 | 1006.5 | 1007.5 | 1007.4 | 1006.0 | 1004.6 | 1003.2 | 1001.8 |
| 157.5° | 1023.2 | 1024.4 | 1025.6 | 1025.5 | 1024.1 | 1022.8 | 1021.4 | 1020.1 |
| 160°   | 1033.6 | 1034.5 | 1035.6 | 1035.5 | 1034.3 | 1033.1 | 1031.9 | 1030.7 |
| 162.5° | 1043.2 | 1044.3 | 1045.5 | 1045.4 | 1043.8 | 1042.4 | 1040.9 | 1039.4 |
| 165°   | 1054.9 | 1056.1 | 1057.4 | 1057.4 | 1056.1 | 1054.9 | 1053.7 | 1052.5 |
| 167.5° | 1064.7 | 1065.9 | 1067.1 | 1067.0 | 1065.4 | 1063.9 | 1062.3 | 1060.8 |
| 170°   | 1069.8 | 1070.9 | 1072.1 | 1072.0 | 1070.4 | 1068.9 | 1067.3 | 1065.8 |
| 172.5° | 1073.4 | 1074.6 | 1075.9 | 1075.7 | 1074.2 | 1072.6 | 1071.1 | 1069.5 |
| 175°   | 1077.5 | 1078.7 | 1079.9 | 1079.7 | 1077.9 | 1076.2 | 1074.5 | 1072.8 |
| 177.5° | 1078.0 | 1078.9 | 1079.9 | 1079.8 | 1078.5 | 1077.3 | 1076.0 | 1074.8 |
| 180°   | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 |

(END OF REPORT)