

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: P331680-930

Luminaire Tested: **S122RDIP-S675D330U930-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331680-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-S675D330U930-4F0-1E-UDD-F4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2935.3 lumens  
Efficiency: N/A  
Efficacy: 83.9 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-Direct

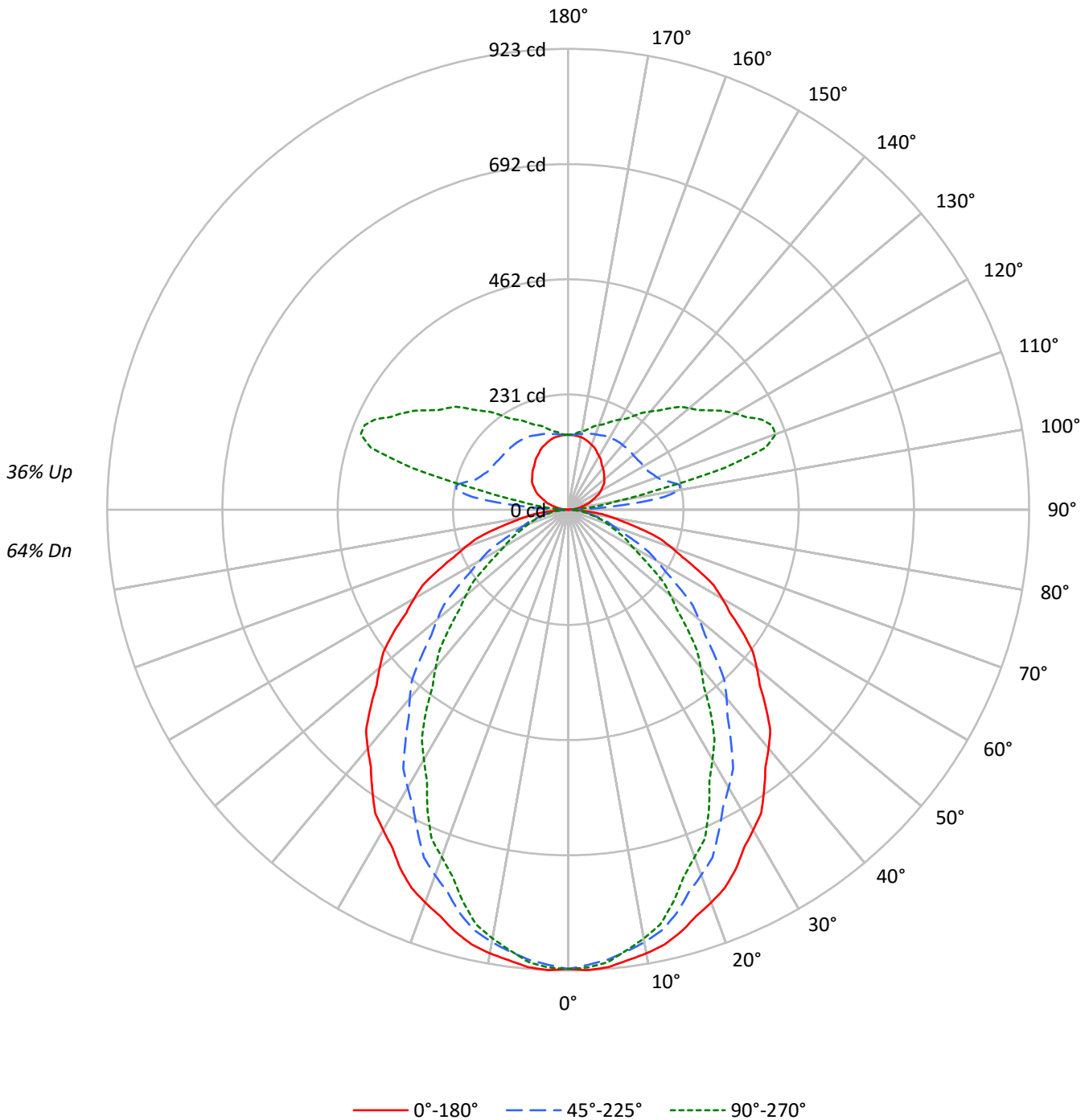
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331680-930

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### Luminous Intensity Polar Plot





TEST NUMBER: P331680-930

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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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |   |
| 0   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 91 | 91 | 91 | 80 | 80 | 80 | 69 | 69 | 69 | 64 |    |    |    |    | 64 |   |  |   |
| 1   | 102 | 97  | 94  | 90  | 95  | 92  | 88  | 86  | 81 | 79 | 76 | 71 | 70 | 68 | 62 | 61 | 60 | 56 |    |    |    |    | 56 |   |  |   |
| 2   | 93  | 86  | 80  | 75  | 87  | 81  | 76  | 71  | 72 | 68 | 64 | 63 | 60 | 58 | 56 | 53 | 51 | 48 |    |    |    |    | 48 |   |  |   |
| 3   | 85  | 76  | 69  | 63  | 80  | 72  | 65  | 60  | 64 | 59 | 55 | 57 | 53 | 50 | 50 | 47 | 44 | 41 |    |    |    |    | 41 |   |  |   |
| 4   | 78  | 68  | 60  | 54  | 74  | 64  | 57  | 52  | 57 | 52 | 47 | 51 | 47 | 43 | 45 | 42 | 39 | 36 |    |    |    |    | 36 |   |  |   |
| 5   | 72  | 61  | 53  | 47  | 68  | 58  | 50  | 45  | 52 | 46 | 41 | 46 | 41 | 38 | 41 | 37 | 34 | 31 |    |    |    |    | 31 |   |  |   |
| 6   | 67  | 55  | 47  | 41  | 63  | 52  | 45  | 40  | 47 | 41 | 36 | 42 | 37 | 33 | 37 | 33 | 31 | 28 |    |    |    |    | 28 |   |  |   |
| 7   | 62  | 50  | 42  | 36  | 58  | 47  | 40  | 35  | 43 | 37 | 32 | 38 | 34 | 30 | 34 | 30 | 27 | 25 |    |    |    |    | 25 |   |  |   |
| 8   | 58  | 46  | 38  | 33  | 54  | 43  | 36  | 31  | 39 | 33 | 29 | 35 | 30 | 27 | 32 | 28 | 25 | 23 |    |    |    |    | 23 |   |  |   |
| 9   | 54  | 42  | 34  | 29  | 51  | 40  | 33  | 28  | 36 | 30 | 26 | 33 | 28 | 24 | 29 | 25 | 23 | 21 |    |    |    |    | 21 |   |  |   |
| 10  | 51  | 39  | 31  | 26  | 48  | 37  | 30  | 26  | 33 | 28 | 24 | 30 | 26 | 22 | 27 | 23 | 21 | 19 |    |    |    |    | 19 |   |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14849 | 14849 | 14849 |
| 5°  | 14906 | 14663 | 14744 |
| 10° | 14791 | 14423 | 14300 |
| 15° | 14621 | 13996 | 13593 |
| 20° | 14387 | 13385 | 12713 |
| 25° | 14145 | 12691 | 11863 |
| 30° | 13811 | 11979 | 10769 |
| 35° | 13484 | 11203 | 9810  |
| 40° | 13156 | 10404 | 8701  |
| 45° | 12771 | 9501  | 7695  |
| 50° | 12376 | 8593  | 6712  |
| 55° | 11972 | 7614  | 5762  |
| 60° | 11502 | 6584  | 4782  |
| 65° | 10968 | 5532  | 4359  |
| 70° | 10334 | 4556  | 4008  |
| 75° | 9551  | 4155  | 3737  |
| 80° | 8433  | 3710  | 3403  |
| 85° | 6632  | 2927  | 2927  |



TEST NUMBER: P331680-930

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.1   | 2.9       |
| 10°-20°   | 236.4  | 8.1       |
| 20°-30°   | 331.9  | 11.3      |
| 30°-40°   | 361.9  | 12.3      |
| 40°-50°   | 332.8  | 11.3      |
| 50°-60°   | 261.4  | 8.9       |
| 60°-70°   | 170.4  | 5.8       |
| 70°-80°   | 87.9   | 3.0       |
| 80°-90°   | 24.1   | 0.8       |
| 90°-100°  | 59.9   | 2.0       |
| 100°-110° | 203.2  | 6.9       |
| 110°-120° | 215.9  | 7.4       |
| 120°-130° | 177.7  | 6.1       |
| 130°-140° | 142.7  | 4.9       |
| 140°-150° | 107.9  | 3.7       |
| 150°-160° | 75.8   | 2.6       |
| 160°-170° | 44.6   | 1.5       |
| 170°-180° | 14.5   | 0.5       |
| 0°-30°    | 654.4  | 22.3      |
| 0°-40°    | 1016.3 | 34.6      |
| 0°-60°    | 1610.5 | 54.9      |
| 0°-90°    | 1892.9 | 64.5      |
| 90°-120°  | 479.1  | 16.3      |
| 90°-150°  | 907.4  | 30.9      |
| 90°-180°  | 1042.0 | 35.5      |
| 0°-180°   | 2935.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 920 | 920   | 920 | 920   | 920 |      |
| 5°   | 920 | 915   | 905 | 912   | 910 | 87   |
| 15°  | 875 | 864   | 837 | 822   | 813 | 246  |
| 25°  | 794 | 766   | 712 | 680   | 666 | 365  |
| 35°  | 684 | 640   | 568 | 518   | 498 | 428  |
| 45°  | 559 | 502   | 416 | 359   | 337 | 432  |
| 55°  | 425 | 359   | 270 | 222   | 205 | 380  |
| 65°  | 287 | 219   | 145 | 118   | 114 | 285  |
| 75°  | 153 | 96    | 67  | 61    | 60  | 162  |
| 85°  | 36  | 19    | 16  | 16    | 16  | 42   |
| 90°  | 0   | 4     | 10  | 9     | 10  | 2    |
| 95°  | 10  | 25    | 113 | 43    | 33  | 11   |
| 105° | 35  | 53    | 213 | 382   | 325 | 37   |
| 115° | 62  | 78    | 179 | 369   | 427 | 61   |
| 125° | 86  | 102   | 172 | 299   | 347 | 77   |
| 135° | 101 | 121   | 170 | 251   | 287 | 78   |
| 145° | 116 | 133   | 169 | 210   | 229 | 73   |
| 155° | 132 | 142   | 164 | 185   | 193 | 61   |
| 165° | 144 | 148   | 157 | 166   | 169 | 40   |
| 175° | 150 | 150   | 151 | 153   | 152 | 14   |
| 180° | 150 | 150   | 150 | 150   | 150 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 919.7 | 919.7 | 919.7 | 919.7 | 919.7 | 919.7 | 919.7 | 919.7 | 919.7 | 919.7 | 919.7 |
| 2.5°   | 923.0 | 922.3 | 921.5 | 920.8 | 920.1 | 918.8 | 917.2 | 915.6 | 914.0 | 912.4 | 913.9 |
| 5°     | 919.7 | 918.8 | 917.9 | 916.9 | 916.0 | 914.4 | 911.9 | 909.5 | 907.1 | 904.7 | 906.4 |
| 7.5°   | 910.2 | 909.1 | 907.9 | 906.8 | 905.6 | 903.6 | 900.8 | 898.1 | 895.2 | 892.4 | 892.8 |
| 10°    | 902.2 | 900.9 | 899.6 | 898.3 | 897.0 | 894.5 | 890.8 | 887.1 | 883.5 | 879.7 | 879.2 |
| 12.5°  | 892.2 | 890.6 | 889.0 | 887.5 | 885.8 | 882.7 | 878.0 | 873.3 | 868.5 | 863.7 | 862.7 |
| 15°    | 874.7 | 872.7 | 870.7 | 868.6 | 866.6 | 862.4 | 856.1 | 849.9 | 843.6 | 837.3 | 833.8 |
| 17.5°  | 853.3 | 850.2 | 847.1 | 843.9 | 840.8 | 835.3 | 827.2 | 819.1 | 811.1 | 803.0 | 798.8 |
| 20°    | 837.3 | 833.6 | 829.9 | 826.2 | 822.5 | 816.0 | 806.7 | 797.5 | 788.3 | 779.0 | 774.4 |
| 22.5°  | 819.9 | 815.9 | 811.7 | 807.6 | 803.4 | 796.1 | 785.7 | 775.3 | 764.8 | 754.4 | 748.4 |
| 25°    | 794.0 | 788.1 | 782.2 | 776.2 | 770.4 | 761.2 | 749.1 | 736.9 | 724.6 | 712.4 | 704.8 |
| 27.5°  | 762.7 | 756.3 | 749.8 | 743.4 | 736.9 | 726.8 | 713.1 | 699.4 | 685.6 | 671.8 | 663.0 |
| 30°    | 740.8 | 733.7 | 726.7 | 719.7 | 712.7 | 701.7 | 686.9 | 672.1 | 657.3 | 642.5 | 633.1 |
| 32.5°  | 719.4 | 711.2 | 703.0 | 694.8 | 686.6 | 674.9 | 659.8 | 644.7 | 629.7 | 614.6 | 603.8 |
| 35°    | 684.1 | 674.7 | 665.3 | 655.8 | 646.5 | 633.6 | 617.3 | 601.0 | 584.7 | 568.4 | 556.8 |
| 37.5°  | 648.9 | 638.5 | 628.1 | 617.8 | 607.4 | 593.5 | 576.3 | 558.9 | 541.5 | 524.2 | 511.4 |
| 40°    | 624.2 | 613.1 | 602.0 | 590.9 | 579.8 | 565.3 | 547.4 | 529.5 | 511.5 | 493.6 | 480.5 |
| 42.5°  | 598.9 | 587.3 | 575.5 | 563.9 | 552.2 | 537.0 | 518.5 | 500.0 | 481.4 | 462.9 | 449.3 |
| 45°    | 559.3 | 546.9 | 534.5 | 522.1 | 509.7 | 493.8 | 474.4 | 455.0 | 435.5 | 416.1 | 403.0 |
| 47.5°  | 520.7 | 507.5 | 494.4 | 481.3 | 468.1 | 451.6 | 431.5 | 411.5 | 391.4 | 371.4 | 358.3 |
| 50°    | 492.7 | 479.6 | 466.4 | 453.3 | 440.2 | 423.5 | 403.1 | 382.8 | 362.4 | 342.1 | 329.3 |
| 52.5°  | 465.5 | 451.7 | 438.0 | 424.3 | 410.5 | 393.7 | 373.8 | 353.9 | 334.0 | 314.1 | 301.8 |
| 55°    | 425.3 | 410.9 | 396.5 | 382.0 | 367.6 | 350.4 | 330.4 | 310.5 | 290.5 | 270.5 | 259.4 |
| 57.5°  | 384.2 | 369.4 | 354.6 | 339.8 | 325.0 | 308.0 | 288.8 | 269.6 | 250.4 | 231.2 | 221.0 |
| 60°    | 356.2 | 341.4 | 326.6 | 311.9 | 297.0 | 280.1 | 261.1 | 242.0 | 223.0 | 203.9 | 194.4 |
| 62.5°  | 328.9 | 314.1 | 299.3 | 284.5 | 269.7 | 253.2 | 235.1 | 217.0 | 198.8 | 180.6 | 171.6 |
| 65°    | 287.1 | 272.1 | 257.1 | 242.2 | 227.2 | 211.4 | 194.8 | 178.1 | 161.4 | 144.8 | 138.5 |
| 67.5°  | 246.9 | 232.0 | 217.1 | 202.3 | 187.4 | 172.4 | 157.4 | 142.5 | 127.5 | 112.5 | 109.7 |
| 70°    | 218.9 | 204.5 | 190.0 | 175.6 | 161.2 | 147.6 | 134.9 | 122.1 | 109.3 | 96.5  | 94.7  |
| 72.5°  | 192.2 | 178.4 | 164.6 | 150.7 | 136.9 | 124.9 | 114.6 | 104.4 | 94.2  | 83.9  | 82.3  |
| 75°    | 153.1 | 140.2 | 127.3 | 114.3 | 101.3 | 91.7  | 85.4  | 79.2  | 72.9  | 66.6  | 65.3  |
| 77.5°  | 114.7 | 103.3 | 92.0  | 80.6  | 69.3  | 62.0  | 59.0  | 56.0  | 53.0  | 50.0  | 49.2  |
| 80°    | 90.7  | 81.3  | 71.8  | 62.5  | 53.0  | 47.4  | 45.5  | 43.6  | 41.8  | 39.9  | 39.2  |
| 82.5°  | 68.7  | 61.4  | 54.1  | 46.6  | 39.3  | 35.0  | 33.8  | 32.4  | 31.2  | 30.0  | 29.5  |
| 85°    | 35.8  | 31.9  | 28.0  | 24.1  | 20.2  | 18.0  | 17.4  | 17.0  | 16.4  | 15.8  | 15.8  |
| 87.5°  | 10.7  | 9.7   | 8.7   | 7.7   | 6.6   | 6.2   | 6.4   | 6.8   | 7.3   | 7.3   | 7.1   |
| 90°    | 0.3   | 1.1   | 2.3   | 2.9   | 3.4   | 4.3   | 5.8   | 7.7   | 9.5   | 9.8   | 9.5   |
| 92.5°  | 3.5   | 5.1   | 7.2   | 8.4   | 10.4  | 13.0  | 19.6  | 28.8  | 36.9  | 37.4  | 31.6  |
| 95°    | 10.1  | 11.3  | 14.1  | 16.7  | 21.3  | 28.2  | 41.5  | 66.5  | 100.0 | 112.9 | 98.8  |
| 97.5°  | 16.4  | 17.9  | 21.0  | 24.9  | 30.2  | 38.1  | 54.7  | 89.7  | 145.2 | 192.7 | 202.2 |
| 100°   | 22.2  | 23.1  | 25.6  | 30.2  | 36.0  | 44.1  | 59.4  | 94.5  | 156.7 | 227.6 | 269.0 |
| 102.5° | 27.5  | 28.1  | 30.7  | 35.3  | 41.3  | 49.4  | 63.5  | 94.7  | 152.3 | 228.7 | 293.9 |
| 105°   | 35.1  | 36.3  | 38.3  | 42.6  | 49.0  | 57.1  | 70.6  | 96.2  | 143.7 | 213.4 | 290.1 |
| 107.5° | 43.5  | 44.4  | 46.3  | 50.3  | 56.6  | 64.7  | 77.9  | 100.2 | 139.5 | 197.1 | 264.8 |
| 110°   | 49.0  | 50.1  | 51.9  | 55.6  | 61.6  | 70.0  | 82.7  | 103.4 | 138.6 | 189.2 | 248.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 54.1  | 55.2  | 57.2  | 60.7  | 66.4  | 75.1  | 87.3  | 106.9 | 138.8 | 184.2 | 237.8 |
| 115°   | 62.0  | 63.3  | 65.1  | 68.6  | 74.4  | 82.1  | 94.5  | 112.0 | 140.0 | 178.6 | 224.1 |
| 117.5° | 70.1  | 71.3  | 73.0  | 76.1  | 81.6  | 89.7  | 101.1 | 117.6 | 142.1 | 175.9 | 215.5 |
| 120°   | 75.2  | 76.3  | 78.1  | 80.6  | 86.4  | 94.5  | 105.7 | 121.3 | 143.5 | 174.3 | 210.8 |
| 122.5° | 80.1  | 81.0  | 82.7  | 85.5  | 91.2  | 99.5  | 110.1 | 124.5 | 145.0 | 173.3 | 206.9 |
| 125°   | 86.4  | 87.3  | 89.0  | 92.5  | 98.2  | 106.3 | 116.7 | 129.6 | 147.5 | 171.7 | 201.4 |
| 127.5° | 91.5  | 92.6  | 95.1  | 98.9  | 104.4 | 112.7 | 122.8 | 134.4 | 149.9 | 170.7 | 196.2 |
| 130°   | 94.5  | 95.6  | 98.5  | 102.6 | 108.4 | 116.3 | 126.5 | 137.4 | 151.8 | 170.2 | 192.7 |
| 132.5° | 97.3  | 98.7  | 101.7 | 106.0 | 112.0 | 120.1 | 129.7 | 140.4 | 153.7 | 170.0 | 190.0 |
| 135°   | 101.4 | 102.6 | 106.0 | 110.3 | 117.0 | 125.0 | 134.3 | 144.3 | 155.9 | 169.7 | 186.1 |
| 137.5° | 105.3 | 106.7 | 110.1 | 114.8 | 121.3 | 128.8 | 137.9 | 147.3 | 157.8 | 169.6 | 183.4 |
| 140°   | 108.4 | 109.5 | 112.9 | 117.6 | 123.8 | 131.3 | 140.0 | 149.0 | 158.7 | 169.4 | 181.7 |
| 142.5° | 111.3 | 112.3 | 115.4 | 120.1 | 126.2 | 133.2 | 141.6 | 150.3 | 159.4 | 169.4 | 180.2 |
| 145°   | 115.8 | 117.0 | 119.8 | 124.2 | 130.0 | 136.2 | 144.1 | 152.1 | 160.1 | 168.8 | 178.1 |
| 147.5° | 120.7 | 121.5 | 124.3 | 128.2 | 133.1 | 138.7 | 146.0 | 153.1 | 160.4 | 167.8 | 175.9 |
| 150°   | 123.8 | 124.7 | 127.0 | 130.8 | 135.1 | 140.3 | 146.9 | 153.5 | 160.1 | 167.1 | 174.0 |
| 152.5° | 127.1 | 127.5 | 129.8 | 133.1 | 137.2 | 141.9 | 147.8 | 153.8 | 159.7 | 165.9 | 172.4 |
| 155°   | 131.7 | 131.9 | 133.6 | 136.8 | 140.0 | 144.3 | 149.2 | 154.1 | 159.0 | 163.9 | 169.4 |
| 157.5° | 135.4 | 135.7 | 137.1 | 139.9 | 142.4 | 146.0 | 150.2 | 154.1 | 157.7 | 161.8 | 166.6 |
| 160°   | 137.9 | 138.3 | 139.4 | 141.7 | 144.1 | 147.2 | 150.7 | 154.1 | 157.0 | 160.5 | 164.4 |
| 162.5° | 140.6 | 140.3 | 141.5 | 143.3 | 145.4 | 147.9 | 150.9 | 153.8 | 156.3 | 159.3 | 162.7 |
| 165°   | 143.5 | 143.2 | 143.7 | 145.4 | 146.9 | 148.6 | 151.2 | 153.3 | 155.0 | 157.0 | 159.6 |
| 167.5° | 145.9 | 145.5 | 146.0 | 147.2 | 148.2 | 149.3 | 151.2 | 152.9 | 153.7 | 155.0 | 156.6 |
| 170°   | 147.5 | 146.9 | 147.2 | 148.1 | 148.6 | 149.5 | 150.9 | 152.4 | 153.0 | 153.8 | 155.0 |
| 172.5° | 148.4 | 148.1 | 147.9 | 148.8 | 149.1 | 149.8 | 150.7 | 151.7 | 152.1 | 152.5 | 153.4 |
| 175°   | 149.5 | 149.2 | 149.0 | 149.5 | 149.5 | 149.8 | 150.3 | 150.9 | 150.7 | 150.9 | 151.2 |
| 177.5° | 150.0 | 149.5 | 149.4 | 149.8 | 149.8 | 149.8 | 150.0 | 150.5 | 150.0 | 149.8 | 150.0 |
| 180°   | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 919.7 | 919.7 | 919.7 | 919.7 | 919.7 | 919.7 | 919.7 | 919.7 |
| 2.5°   | 915.3 | 916.8 | 918.3 | 918.8 | 918.6 | 918.3 | 918.0 | 917.7 |
| 5°     | 908.0 | 909.7 | 911.3 | 911.9 | 911.3 | 910.8 | 910.3 | 909.7 |
| 7.5°   | 893.3 | 893.8 | 894.3 | 894.1 | 893.1 | 892.2 | 891.2 | 890.2 |
| 10°    | 878.6 | 878.1 | 877.5 | 876.7 | 875.5 | 874.5 | 873.3 | 872.2 |
| 12.5°  | 861.8 | 860.8 | 859.7 | 858.3 | 856.5 | 854.7 | 852.8 | 850.9 |
| 15°    | 830.3 | 826.7 | 823.2 | 820.5 | 818.7 | 816.8 | 815.0 | 813.2 |
| 17.5°  | 794.7 | 790.4 | 786.3 | 782.6 | 779.4 | 776.2 | 773.1 | 769.9 |
| 20°    | 769.8 | 765.2 | 760.5 | 756.2 | 752.1 | 748.0 | 744.0 | 739.9 |
| 22.5°  | 742.5 | 736.5 | 730.6 | 726.1 | 723.0 | 720.0 | 717.0 | 714.0 |
| 25°    | 697.2 | 689.7 | 682.1 | 676.9 | 674.2 | 671.4 | 668.6 | 665.9 |
| 27.5°  | 654.1 | 645.3 | 636.5 | 629.8 | 625.4 | 621.0 | 616.6 | 612.2 |
| 30°    | 623.7 | 614.2 | 604.8 | 597.6 | 592.6 | 587.6 | 582.6 | 577.6 |
| 32.5°  | 593.0 | 582.3 | 571.5 | 563.8 | 559.1 | 554.4 | 549.7 | 545.0 |
| 35°    | 545.2 | 533.5 | 521.9 | 514.0 | 509.9 | 505.8 | 501.8 | 497.7 |
| 37.5°  | 498.5 | 485.7 | 472.9 | 464.1 | 459.4 | 454.8 | 450.1 | 445.5 |
| 40°    | 467.2 | 454.1 | 441.0 | 432.0 | 427.2 | 422.4 | 417.6 | 412.8 |
| 42.5°  | 435.8 | 422.2 | 408.6 | 399.5 | 394.8 | 390.2 | 385.6 | 380.8 |
| 45°    | 389.9 | 376.7 | 363.6 | 354.8 | 350.4 | 345.9 | 341.5 | 337.0 |
| 47.5°  | 345.3 | 332.2 | 319.1 | 310.6 | 306.6 | 302.6 | 298.5 | 294.5 |
| 50°    | 316.6 | 303.8 | 291.1 | 282.7 | 278.8 | 274.9 | 271.1 | 267.2 |
| 52.5°  | 289.5 | 277.1 | 264.8 | 256.9 | 253.3 | 249.7 | 246.1 | 242.6 |
| 55°    | 248.3 | 237.2 | 226.1 | 218.8 | 215.3 | 211.7 | 208.2 | 204.7 |
| 57.5°  | 210.8 | 200.7 | 190.5 | 183.9 | 181.0 | 178.1 | 175.0 | 172.1 |
| 60°    | 185.1 | 175.6 | 166.2 | 160.0 | 157.0 | 154.1 | 151.1 | 148.1 |
| 62.5°  | 162.7 | 153.6 | 144.6 | 139.3 | 137.5 | 135.7 | 134.0 | 132.2 |
| 65°    | 132.2 | 126.0 | 119.7 | 116.3 | 115.7 | 115.1 | 114.5 | 114.1 |
| 67.5°  | 106.7 | 103.9 | 101.0 | 99.2  | 98.7  | 98.1  | 97.5  | 96.9  |
| 70°    | 92.9  | 91.0  | 89.1  | 87.9  | 87.1  | 86.3  | 85.6  | 84.9  |
| 72.5°  | 80.8  | 79.2  | 77.7  | 76.7  | 76.2  | 75.8  | 75.3  | 74.9  |
| 75°    | 64.0  | 62.7  | 61.4  | 60.7  | 60.5  | 60.3  | 60.1  | 59.9  |
| 77.5°  | 48.4  | 47.7  | 47.0  | 46.5  | 46.1  | 45.9  | 45.6  | 45.2  |
| 80°    | 38.5  | 37.7  | 37.0  | 36.6  | 36.6  | 36.6  | 36.6  | 36.6  |
| 82.5°  | 29.1  | 28.6  | 28.2  | 28.0  | 28.0  | 28.0  | 28.0  | 28.0  |
| 85°    | 15.8  | 15.8  | 15.8  | 15.8  | 15.8  | 15.8  | 15.8  | 15.8  |
| 87.5°  | 6.8   | 6.6   | 6.6   | 6.5   | 6.5   | 6.5   | 6.5   | 6.5   |
| 90°    | 9.2   | 8.6   | 9.2   | 9.5   | 9.5   | 9.5   | 9.5   | 9.5   |
| 92.5°  | 25.1  | 21.5  | 19.2  | 17.4  | 17.1  | 16.2  | 16.4  | 16.0  |
| 95°    | 75.5  | 57.9  | 45.8  | 39.5  | 35.7  | 33.4  | 32.5  | 32.9  |
| 97.5°  | 176.1 | 144.1 | 112.9 | 92.1  | 78.4  | 71.3  | 67.1  | 64.7  |
| 100°   | 263.0 | 227.3 | 187.8 | 153.0 | 129.1 | 116.7 | 108.4 | 103.1 |
| 102.5° | 319.9 | 311.9 | 283.0 | 246.1 | 220.0 | 198.9 | 188.5 | 181.5 |
| 105°   | 350.0 | 382.5 | 386.3 | 376.8 | 358.9 | 341.0 | 328.6 | 324.7 |
| 107.5° | 328.3 | 377.4 | 407.3 | 421.3 | 423.5 | 422.6 | 420.0 | 414.7 |
| 110°   | 309.7 | 361.3 | 398.1 | 421.8 | 434.1 | 439.6 | 442.2 | 441.9 |





TEST NUMBER: P331680-930

CATALOG NUMBER: S122RDIP-S675D330U930-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 292.6 | 342.1 | 381.5 | 408.6 | 425.8 | 435.0 | 439.9 | 441.4 |
| 115°   | 271.7 | 316.0 | 353.8 | 383.4 | 403.9 | 417.1 | 424.6 | 427.2 |
| 117.5° | 255.8 | 294.8 | 329.1 | 356.9 | 377.7 | 391.8 | 399.6 | 401.8 |
| 120°   | 248.0 | 283.7 | 314.3 | 340.5 | 360.7 | 374.2 | 382.5 | 385.5 |
| 122.5° | 241.8 | 274.5 | 303.5 | 327.1 | 345.2 | 358.6 | 366.0 | 368.4 |
| 125°   | 232.8 | 262.4 | 287.8 | 309.4 | 326.1 | 337.0 | 344.2 | 346.6 |
| 127.5° | 223.8 | 250.7 | 274.6 | 294.5 | 309.1 | 319.4 | 325.5 | 327.4 |
| 130°   | 218.1 | 242.9 | 265.6 | 284.6 | 298.7 | 308.5 | 314.3 | 316.6 |
| 132.5° | 212.5 | 235.5 | 256.4 | 274.3 | 288.1 | 297.9 | 303.2 | 305.3 |
| 135°   | 204.8 | 223.8 | 242.9 | 258.9 | 271.3 | 280.9 | 286.1 | 287.2 |
| 137.5° | 198.7 | 214.6 | 229.7 | 243.7 | 255.0 | 263.2 | 267.7 | 269.5 |
| 140°   | 194.7 | 208.6 | 221.8 | 234.5 | 243.7 | 251.2 | 255.5 | 257.2 |
| 142.5° | 191.5 | 203.3 | 214.7 | 225.3 | 234.0 | 240.8 | 244.7 | 245.0 |
| 145°   | 186.9 | 196.5 | 205.4 | 213.8 | 220.6 | 225.6 | 228.4 | 229.3 |
| 147.5° | 183.4 | 190.9 | 197.9 | 204.0 | 209.7 | 213.6 | 215.6 | 216.1 |
| 150°   | 180.9 | 187.3 | 193.3 | 198.4 | 202.8 | 206.3 | 208.0 | 208.3 |
| 152.5° | 178.4 | 184.3 | 189.4 | 193.9 | 197.3 | 200.2 | 201.5 | 201.6 |
| 155°   | 174.9 | 179.4 | 183.8 | 186.9 | 190.1 | 192.2 | 193.3 | 192.7 |
| 157.5° | 170.8 | 174.6 | 178.2 | 180.8 | 183.0 | 184.7 | 185.2 | 185.2 |
| 160°   | 168.2 | 171.4 | 174.6 | 176.6 | 178.6 | 180.0 | 180.3 | 180.3 |
| 162.5° | 165.7 | 168.4 | 171.1 | 172.7 | 174.7 | 175.7 | 175.9 | 175.7 |
| 165°   | 161.9 | 163.9 | 165.9 | 167.1 | 168.2 | 169.4 | 169.4 | 169.1 |
| 167.5° | 158.2 | 159.8 | 161.2 | 162.2 | 162.7 | 163.4 | 163.3 | 163.0 |
| 170°   | 156.5 | 157.3 | 158.4 | 159.0 | 159.3 | 160.1 | 159.9 | 159.3 |
| 172.5° | 154.3 | 155.0 | 155.9 | 156.2 | 156.5 | 156.9 | 156.6 | 156.3 |
| 175°   | 152.1 | 152.4 | 152.7 | 153.0 | 153.0 | 153.3 | 153.0 | 152.4 |
| 177.5° | 150.5 | 150.5 | 150.7 | 150.7 | 150.7 | 150.7 | 150.5 | 150.0 |
| 180°   | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 |

(END OF REPORT)