

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: P331434

Luminaire Tested: **S122DIP-S1005D530U835-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331434  
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: S122DIP-S1005D530U835-4F0-1E-UDD-D4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6100.5 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

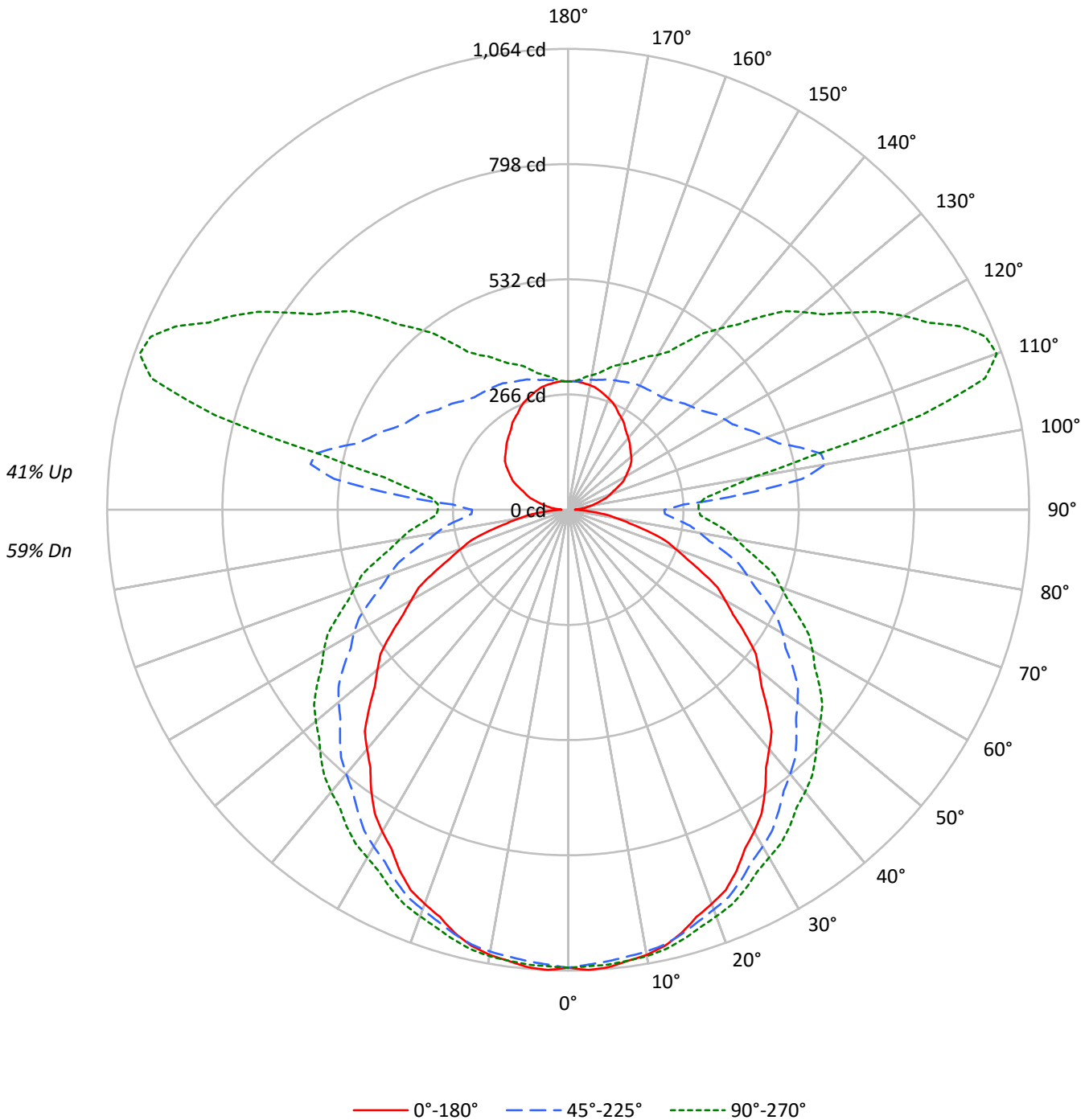
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331434

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### Luminous Intensity Polar Plot





TEST NUMBER: P331434

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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   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 | 59 |
| 1   | 98  | 93  | 88  | 84  | 91  | 87  | 82  | 79  | 75 | 72 | 69 | 64 | 62 | 60 | 54 | 52 | 51 | 46 |
| 2   | 89  | 80  | 73  | 67  | 82  | 75  | 69  | 63  | 65 | 60 | 56 | 55 | 52 | 48 | 46 | 44 | 41 | 37 |
| 3   | 80  | 70  | 62  | 55  | 74  | 65  | 58  | 52  | 56 | 51 | 46 | 48 | 44 | 40 | 41 | 37 | 34 | 31 |
| 4   | 73  | 61  | 53  | 46  | 68  | 57  | 50  | 44  | 50 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 29 | 26 |
| 5   | 67  | 55  | 46  | 39  | 62  | 51  | 43  | 37  | 44 | 38 | 33 | 38 | 33 | 29 | 32 | 28 | 25 | 22 |
| 6   | 62  | 49  | 40  | 34  | 57  | 46  | 38  | 32  | 40 | 33 | 29 | 34 | 29 | 25 | 29 | 25 | 22 | 19 |
| 7   | 57  | 44  | 36  | 30  | 53  | 41  | 34  | 28  | 36 | 30 | 25 | 31 | 26 | 22 | 27 | 22 | 19 | 17 |
| 8   | 53  | 40  | 32  | 26  | 49  | 37  | 30  | 25  | 33 | 27 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 15 |
| 9   | 49  | 36  | 29  | 23  | 46  | 34  | 27  | 22  | 30 | 24 | 20 | 26 | 21 | 18 | 22 | 18 | 16 | 13 |
| 10  | 46  | 33  | 26  | 21  | 43  | 31  | 24  | 20  | 28 | 22 | 18 | 24 | 19 | 16 | 21 | 17 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17073 | 17073 | 17073 |
| 5°  | 17157 | 16435 | 16373 |
| 10° | 17049 | 15949 | 15770 |
| 15° | 16814 | 15435 | 15136 |
| 20° | 16517 | 14884 | 14525 |
| 25° | 16223 | 14353 | 13970 |
| 30° | 15810 | 13808 | 13414 |
| 35° | 15392 | 13280 | 13021 |
| 40° | 14952 | 12831 | 12629 |
| 45° | 14535 | 12429 | 12294 |
| 50° | 14086 | 12066 | 11964 |
| 55° | 13616 | 11675 | 11627 |
| 60° | 13040 | 11269 | 11271 |
| 65° | 12441 | 10795 | 10850 |
| 70° | 11770 | 10285 | 10393 |
| 75° | 10911 | 9784  | 9973  |
| 80° | 9555  | 9272  | 9549  |
| 85° | 8259  | 8830  | 9217  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.2  | 1.6       |
| 10°-20°   | 287.3  | 4.7       |
| 20°-30°   | 435.4  | 7.1       |
| 30°-40°   | 530.3  | 8.7       |
| 40°-50°   | 570.5  | 9.4       |
| 50°-60°   | 554.1  | 9.1       |
| 60°-70°   | 483.8  | 7.9       |
| 70°-80°   | 372.4  | 6.1       |
| 80°-90°   | 252.6  | 4.1       |
| 90°-100°  | 290.8  | 4.8       |
| 100°-110° | 528.1  | 8.7       |
| 110°-120° | 510.5  | 8.4       |
| 120°-130° | 398.2  | 6.5       |
| 130°-140° | 302.0  | 5.0       |
| 140°-150° | 216.9  | 3.6       |
| 150°-160° | 150.1  | 2.5       |
| 160°-170° | 88.3   | 1.4       |
| 170°-180° | 28.8   | 0.5       |
| 0°-30°    | 822.9  | 13.5      |
| 0°-40°    | 1353.3 | 22.2      |
| 0°-60°    | 2477.9 | 40.6      |
| 0°-90°    | 3586.7 | 58.8      |
| 90°-120°  | 1329.4 | 21.8      |
| 90°-150°  | 2246.6 | 36.8      |
| 90°-180°  | 2514.0 | 41.2      |
| 0°-180°   | 6100.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1057 | 1057  | 1057 | 1057  | 1057 |      |
| 5°   | 1060 | 1056  | 1047 | 1055  | 1054 | 101  |
| 15°  | 1012 | 1014  | 1014 | 1028  | 1027 | 285  |
| 25°  | 920  | 930   | 944  | 962   | 967  | 423  |
| 35°  | 792  | 819   | 848  | 880   | 892  | 495  |
| 45°  | 650  | 692   | 745  | 790   | 808  | 501  |
| 55°  | 498  | 555   | 633  | 686   | 708  | 445  |
| 65°  | 340  | 416   | 506  | 566   | 588  | 338  |
| 75°  | 188  | 275   | 372  | 436   | 458  | 199  |
| 85°  | 55   | 150   | 248  | 310   | 334  | 59   |
| 90°  | 16   | 112   | 222  | 280   | 301  | 11   |
| 95°  | 32   | 134   | 400  | 317   | 318  | 31   |
| 105° | 77   | 159   | 554  | 939   | 845  | 83   |
| 115° | 129  | 181   | 446  | 866   | 1000 | 127  |
| 125° | 174  | 208   | 392  | 683   | 793  | 155  |
| 135° | 202  | 242   | 353  | 545   | 630  | 157  |
| 145° | 229  | 263   | 334  | 424   | 471  | 144  |
| 155° | 261  | 281   | 324  | 367   | 382  | 120  |
| 165° | 284  | 293   | 311  | 330   | 335  | 80   |
| 175° | 296  | 296   | 299  | 303   | 302  | 28   |
| 180° | 296  | 296   | 296  | 296   | 296  |      |



TEST NUMBER: P331434

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 |
| 2.5°   | 1063.6 | 1062.8 | 1061.9 | 1061.1 | 1060.3 | 1058.9 | 1057.0 | 1055.1 | 1053.2 | 1051.3 | 1052.7 |
| 5°     | 1060.5 | 1059.5 | 1058.5 | 1057.4 | 1056.4 | 1054.9 | 1052.9 | 1050.8 | 1048.8 | 1046.7 | 1048.8 |
| 7.5°   | 1051.0 | 1050.3 | 1049.6 | 1049.0 | 1048.3 | 1047.2 | 1045.6 | 1044.0 | 1042.5 | 1040.9 | 1043.3 |
| 10°    | 1043.7 | 1043.0 | 1042.3 | 1041.6 | 1040.9 | 1040.1 | 1039.1 | 1038.0 | 1037.0 | 1036.0 | 1038.7 |
| 12.5°  | 1031.4 | 1031.5 | 1031.7 | 1031.8 | 1031.9 | 1031.6 | 1030.9 | 1030.1 | 1029.4 | 1028.6 | 1031.4 |
| 15°    | 1011.5 | 1012.2 | 1012.8 | 1013.5 | 1014.2 | 1014.5 | 1014.5 | 1014.5 | 1014.5 | 1014.5 | 1017.6 |
| 17.5°  | 985.7  | 987.2  | 988.6  | 990.0  | 991.4  | 992.7  | 993.8  | 994.9  | 996.0  | 997.1  | 1000.3 |
| 20°    | 968.6  | 970.3  | 972.0  | 973.7  | 975.4  | 976.9  | 978.3  | 979.6  | 981.0  | 982.4  | 986.1  |
| 22.5°  | 950.2  | 952.1  | 954.1  | 956.1  | 958.1  | 960.0  | 961.9  | 963.8  | 965.7  | 967.6  | 971.4  |
| 25°    | 919.5  | 921.9  | 924.3  | 926.7  | 929.1  | 931.8  | 934.8  | 937.9  | 941.0  | 944.0  | 948.1  |
| 27.5°  | 882.7  | 886.6  | 890.5  | 894.4  | 898.3  | 902.0  | 905.6  | 909.2  | 912.8  | 916.5  | 921.6  |
| 30°    | 858.2  | 862.6  | 867.1  | 871.5  | 875.9  | 880.4  | 884.8  | 889.2  | 893.6  | 898.1  | 903.5  |
| 32.5°  | 831.2  | 836.2  | 841.2  | 846.2  | 851.1  | 856.2  | 861.5  | 866.7  | 872.0  | 877.2  | 883.5  |
| 35°    | 792.3  | 798.1  | 803.9  | 809.7  | 815.5  | 821.6  | 828.1  | 834.5  | 841.0  | 847.5  | 855.0  |
| 37.5°  | 750.0  | 756.7  | 763.4  | 770.0  | 776.7  | 784.2  | 792.6  | 801.0  | 809.4  | 817.8  | 826.1  |
| 40°    | 721.8  | 729.3  | 736.8  | 744.3  | 751.8  | 760.1  | 769.3  | 778.5  | 787.7  | 796.9  | 805.8  |
| 42.5°  | 694.9  | 702.3  | 709.8  | 717.3  | 724.8  | 733.8  | 744.4  | 755.0  | 765.5  | 776.1  | 785.7  |
| 45°    | 649.8  | 659.0  | 668.2  | 677.4  | 686.6  | 697.1  | 709.1  | 721.0  | 732.9  | 744.8  | 755.4  |
| 47.5°  | 605.4  | 615.4  | 625.4  | 635.4  | 645.4  | 657.4  | 671.4  | 685.3  | 699.3  | 713.2  | 724.3  |
| 50°    | 574.7  | 585.3  | 595.8  | 606.4  | 616.9  | 629.9  | 645.2  | 660.5  | 675.8  | 691.2  | 702.8  |
| 52.5°  | 545.3  | 556.4  | 567.5  | 578.6  | 589.7  | 603.3  | 619.4  | 635.6  | 651.7  | 667.9  | 679.7  |
| 55°    | 498.1  | 510.3  | 522.6  | 534.9  | 547.1  | 562.1  | 579.8  | 597.5  | 615.2  | 632.9  | 645.2  |
| 57.5°  | 451.5  | 465.3  | 479.1  | 493.0  | 506.8  | 522.7  | 540.8  | 558.8  | 576.9  | 594.9  | 608.1  |
| 60°    | 418.4  | 433.0  | 447.7  | 462.3  | 477.0  | 494.0  | 513.4  | 532.8  | 552.2  | 571.6  | 584.6  |
| 62.5°  | 389.0  | 404.1  | 419.3  | 434.5  | 449.7  | 467.0  | 486.4  | 505.8  | 525.3  | 544.7  | 558.4  |
| 65°    | 340.2  | 356.9  | 373.6  | 390.3  | 407.0  | 425.4  | 445.5  | 465.5  | 485.6  | 505.7  | 519.7  |
| 67.5°  | 295.5  | 312.9  | 330.3  | 347.8  | 365.2  | 384.2  | 404.8  | 425.4  | 445.9  | 466.5  | 480.6  |
| 70°    | 263.6  | 281.3  | 299.0  | 316.7  | 334.4  | 353.8  | 375.0  | 396.1  | 417.2  | 438.3  | 452.9  |
| 72.5°  | 234.2  | 252.4  | 270.7  | 288.9  | 307.2  | 327.0  | 348.4  | 369.8  | 391.2  | 412.6  | 426.9  |
| 75°    | 188.5  | 207.6  | 226.6  | 245.7  | 264.8  | 285.2  | 307.0  | 328.8  | 350.6  | 372.4  | 387.0  |
| 77.5°  | 144.4  | 164.3  | 184.3  | 204.2  | 224.2  | 245.2  | 267.4  | 289.5  | 311.6  | 333.8  | 348.4  |
| 80°    | 114.9  | 135.7  | 156.5  | 177.3  | 198.0  | 219.5  | 241.6  | 263.8  | 285.9  | 308.0  | 322.3  |
| 82.5°  | 90.4   | 110.9  | 131.4  | 151.9  | 172.4  | 193.9  | 216.3  | 238.7  | 261.1  | 283.5  | 297.8  |
| 85°    | 55.2   | 76.3   | 97.4   | 118.5  | 139.6  | 161.1  | 182.9  | 204.7  | 226.5  | 248.3  | 262.6  |
| 87.5°  | 30.2   | 50.8   | 71.5   | 92.1   | 112.6  | 134.0  | 156.4  | 178.9  | 201.4  | 223.3  | 237.1  |
| 90°    | 15.9   | 37.4   | 59.4   | 80.3   | 101.2  | 123.7  | 148.3  | 174.1  | 199.3  | 221.7  | 234.7  |
| 92.5°  | 21.1   | 42.5   | 65.0   | 85.9   | 108.2  | 133.2  | 167.1  | 206.2  | 243.4  | 265.4  | 267.2  |
| 95°    | 32.2   | 50.5   | 72.2   | 93.4   | 118.5  | 150.4  | 197.1  | 267.1  | 353.7  | 399.8  | 384.8  |
| 97.5°  | 43.2   | 60.5   | 80.8   | 102.8  | 127.6  | 160.0  | 212.6  | 301.3  | 430.9  | 544.7  | 576.0  |
| 100°   | 54.6   | 69.0   | 86.7   | 108.4  | 132.4  | 164.2  | 213.5  | 302.2  | 444.4  | 603.8  | 698.5  |
| 102.5° | 63.9   | 76.7   | 93.3   | 114.0  | 137.3  | 168.3  | 214.8  | 295.1  | 427.7  | 597.5  | 738.9  |
| 105°   | 77.2   | 89.4   | 103.3  | 121.7  | 144.1  | 173.9  | 218.4  | 286.9  | 398.7  | 554.4  | 718.0  |
| 107.5° | 93.4   | 103.1  | 114.9  | 130.6  | 151.0  | 179.5  | 222.4  | 283.7  | 378.4  | 509.4  | 654.9  |
| 110°   | 103.1  | 112.2  | 122.4  | 136.6  | 155.4  | 183.7  | 225.5  | 283.2  | 369.5  | 486.6  | 615.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 113.1 | 121.1 | 130.7 | 143.4 | 160.6 | 188.4 | 228.5 | 283.1 | 362.2 | 467.9 | 585.0 |
| 115°   | 128.7 | 135.3 | 142.5 | 153.1 | 168.2 | 193.2 | 233.0 | 283.1 | 353.8 | 445.5 | 545.9 |
| 117.5° | 143.4 | 148.1 | 154.0 | 162.5 | 175.9 | 200.2 | 237.1 | 283.8 | 346.5 | 427.6 | 516.0 |
| 120°   | 153.4 | 157.1 | 161.9 | 168.4 | 181.1 | 204.6 | 240.5 | 284.9 | 342.4 | 417.1 | 499.0 |
| 122.5° | 163.0 | 165.4 | 169.4 | 175.5 | 187.4 | 210.5 | 244.2 | 285.5 | 339.1 | 407.9 | 483.6 |
| 125°   | 174.2 | 175.9 | 179.3 | 186.1 | 197.5 | 219.0 | 250.4 | 286.9 | 333.2 | 392.0 | 459.9 |
| 127.5° | 184.2 | 186.1 | 190.6 | 197.8 | 208.4 | 229.0 | 257.8 | 289.6 | 329.2 | 379.0 | 437.9 |
| 130°   | 190.1 | 192.1 | 197.4 | 205.1 | 216.1 | 235.5 | 262.6 | 291.4 | 327.1 | 370.8 | 423.4 |
| 132.5° | 195.6 | 198.0 | 203.8 | 211.9 | 223.4 | 242.0 | 266.6 | 293.3 | 325.0 | 362.9 | 410.3 |
| 135°   | 202.3 | 204.6 | 211.4 | 220.0 | 233.1 | 250.7 | 272.4 | 295.8 | 322.0 | 352.8 | 392.4 |
| 137.5° | 210.0 | 212.7 | 219.5 | 228.5 | 241.5 | 257.0 | 276.5 | 296.6 | 318.9 | 343.8 | 377.3 |
| 140°   | 216.0 | 217.9 | 224.4 | 233.2 | 245.4 | 260.4 | 278.2 | 296.5 | 316.6 | 338.4 | 368.4 |
| 142.5° | 221.9 | 223.4 | 229.4 | 238.2 | 250.0 | 263.8 | 280.6 | 297.9 | 316.1 | 335.9 | 361.6 |
| 145°   | 229.3 | 231.5 | 237.2 | 245.8 | 257.2 | 269.7 | 285.1 | 301.1 | 317.1 | 334.2 | 354.5 |
| 147.5° | 238.8 | 240.5 | 246.0 | 253.9 | 263.4 | 274.5 | 289.0 | 303.1 | 317.5 | 332.1 | 348.4 |
| 150°   | 245.2 | 246.9 | 251.5 | 258.9 | 267.5 | 277.7 | 290.8 | 304.0 | 317.1 | 330.8 | 344.5 |
| 152.5° | 251.6 | 252.4 | 257.0 | 263.5 | 271.6 | 280.9 | 292.7 | 304.4 | 316.2 | 328.5 | 341.3 |
| 155°   | 260.6 | 261.2 | 264.6 | 270.9 | 277.2 | 285.7 | 295.4 | 305.1 | 314.8 | 324.5 | 335.3 |
| 157.5° | 268.1 | 268.7 | 271.5 | 276.9 | 282.0 | 289.1 | 297.3 | 305.1 | 312.2 | 320.4 | 329.7 |
| 160°   | 273.2 | 273.7 | 276.0 | 280.6 | 285.1 | 291.4 | 298.3 | 305.1 | 310.8 | 317.7 | 325.6 |
| 162.5° | 278.2 | 277.8 | 280.1 | 283.8 | 287.9 | 292.8 | 298.7 | 304.6 | 309.4 | 315.4 | 322.0 |
| 165°   | 284.0 | 283.4 | 284.6 | 288.0 | 290.8 | 294.3 | 299.4 | 303.4 | 306.8 | 310.8 | 315.9 |
| 167.5° | 288.8 | 288.1 | 289.1 | 291.3 | 293.4 | 295.5 | 299.3 | 302.6 | 304.2 | 306.8 | 310.0 |
| 170°   | 292.0 | 290.8 | 291.4 | 293.1 | 294.3 | 296.0 | 298.8 | 301.7 | 302.8 | 304.5 | 306.8 |
| 172.5° | 293.8 | 293.1 | 292.8 | 294.5 | 295.2 | 296.4 | 298.4 | 300.3 | 301.0 | 301.8 | 303.6 |
| 175°   | 296.0 | 295.4 | 294.8 | 296.0 | 296.0 | 296.5 | 297.7 | 298.8 | 298.3 | 298.8 | 299.4 |
| 177.5° | 297.0 | 296.1 | 295.6 | 296.5 | 296.5 | 296.5 | 297.0 | 297.9 | 297.0 | 296.5 | 297.0 |
| 180°   | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 |
| 2.5°   | 1054.0 | 1055.4 | 1056.8 | 1057.2 | 1056.6 | 1056.1 | 1055.5 | 1055.0 |
| 5°     | 1050.8 | 1052.9 | 1054.9 | 1055.7 | 1055.4 | 1055.1 | 1054.7 | 1054.4 |
| 7.5°   | 1045.8 | 1048.3 | 1050.7 | 1051.8 | 1051.4 | 1051.1 | 1050.7 | 1050.4 |
| 10°    | 1041.4 | 1044.2 | 1046.9 | 1048.1 | 1047.7 | 1047.4 | 1047.1 | 1046.7 |
| 12.5°  | 1034.1 | 1036.8 | 1039.5 | 1040.7 | 1040.4 | 1040.0 | 1039.7 | 1039.4 |
| 15°    | 1020.7 | 1023.7 | 1026.8 | 1028.2 | 1027.8 | 1027.5 | 1027.1 | 1026.8 |
| 17.5°  | 1003.5 | 1006.7 | 1009.9 | 1011.5 | 1011.5 | 1011.5 | 1011.5 | 1011.5 |
| 20°    | 989.8  | 993.6  | 997.3  | 999.2  | 999.2  | 999.2  | 999.2  | 999.2  |
| 22.5°  | 975.1  | 978.9  | 982.6  | 984.8  | 985.3  | 985.9  | 986.4  | 987.0  |
| 25°    | 952.2  | 956.3  | 960.4  | 962.9  | 964.0  | 965.0  | 966.0  | 967.0  |
| 27.5°  | 926.8  | 932.0  | 937.2  | 940.1  | 940.9  | 941.6  | 942.4  | 943.1  |
| 30°    | 909.0  | 914.4  | 919.9  | 923.1  | 924.1  | 925.1  | 926.2  | 927.2  |
| 32.5°  | 889.8  | 896.0  | 902.3  | 906.3  | 908.2  | 910.0  | 911.9  | 913.7  |
| 35°    | 862.5  | 870.0  | 877.5  | 882.4  | 884.8  | 887.2  | 889.6  | 891.9  |
| 37.5°  | 834.4  | 842.7  | 851.0  | 856.4  | 858.9  | 861.5  | 864.0  | 866.5  |
| 40°    | 814.6  | 823.5  | 832.3  | 838.3  | 841.4  | 844.4  | 847.5  | 850.6  |
| 42.5°  | 795.4  | 805.1  | 814.8  | 821.1  | 824.2  | 827.3  | 830.3  | 833.4  |
| 45°    | 765.9  | 776.5  | 787.0  | 794.0  | 797.4  | 800.8  | 804.2  | 807.6  |
| 47.5°  | 735.3  | 746.3  | 757.4  | 764.8  | 768.5  | 772.3  | 776.0  | 779.8  |
| 50°    | 714.3  | 725.9  | 737.5  | 745.2  | 748.9  | 752.6  | 756.4  | 760.1  |
| 52.5°  | 691.6  | 703.4  | 715.3  | 723.2  | 727.2  | 731.3  | 735.3  | 739.3  |
| 55°    | 657.5  | 669.7  | 682.0  | 690.3  | 694.7  | 699.2  | 703.6  | 708.0  |
| 57.5°  | 621.4  | 634.6  | 647.8  | 656.6  | 661.1  | 665.6  | 670.1  | 674.6  |
| 60°    | 597.5  | 610.5  | 623.4  | 632.3  | 637.0  | 641.8  | 646.6  | 651.3  |
| 62.5°  | 572.2  | 585.9  | 599.7  | 608.8  | 613.3  | 617.8  | 622.3  | 626.8  |
| 65°    | 533.7  | 547.6  | 561.6  | 570.8  | 575.2  | 579.6  | 584.1  | 588.5  |
| 67.5°  | 494.7  | 508.8  | 522.9  | 532.3  | 536.9  | 541.5  | 546.2  | 550.8  |
| 70°    | 467.6  | 482.2  | 496.9  | 506.2  | 510.3  | 514.4  | 518.5  | 522.6  |
| 72.5°  | 441.3  | 455.7  | 470.0  | 479.7  | 484.6  | 489.5  | 494.4  | 499.3  |
| 75°    | 401.7  | 416.3  | 431.0  | 440.5  | 444.9  | 449.4  | 453.8  | 458.2  |
| 77.5°  | 362.9  | 377.5  | 392.1  | 401.8  | 406.5  | 411.3  | 416.1  | 420.8  |
| 80°    | 336.6  | 351.0  | 365.3  | 374.8  | 379.6  | 384.3  | 389.1  | 393.9  |
| 82.5°  | 312.1  | 326.4  | 340.7  | 350.1  | 354.6  | 359.1  | 363.6  | 368.1  |
| 85°    | 276.9  | 291.2  | 305.5  | 315.0  | 319.8  | 324.6  | 329.3  | 334.1  |
| 87.5°  | 250.9  | 264.6  | 278.7  | 287.9  | 292.3  | 296.6  | 301.0  | 305.4  |
| 90°    | 247.8  | 260.3  | 275.0  | 284.5  | 288.5  | 292.6  | 296.7  | 300.8  |
| 92.5°  | 267.7  | 274.0  | 282.5  | 287.7  | 291.3  | 293.6  | 298.1  | 301.3  |
| 95°    | 351.5  | 329.7  | 318.7  | 314.7  | 311.3  | 310.8  | 313.2  | 317.9  |
| 97.5°  | 536.9  | 486.1  | 437.0  | 404.2  | 380.9  | 370.9  | 366.6  | 365.8  |
| 100°   | 699.1  | 641.0  | 575.5  | 514.7  | 471.1  | 450.3  | 437.5  | 431.0  |
| 102.5° | 802.7  | 799.0  | 754.2  | 689.2  | 641.5  | 603.4  | 586.5  | 576.3  |
| 105°   | 848.5  | 924.9  | 944.2  | 933.2  | 901.6  | 870.0  | 849.2  | 845.0  |
| 107.5° | 792.1  | 900.6  | 971.4  | 1006.6 | 1014.8 | 1016.6 | 1015.4 | 1008.6 |
| 110°   | 746.7  | 859.7  | 943.6  | 997.7  | 1026.0 | 1040.5 | 1049.4 | 1052.6 |





TEST NUMBER: P331434

CATALOG NUMBER: S122DIP-S1005D530U835-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 112.5° | 704.4 | 813.3 | 902.2 | 963.1 | 1001.0 | 1022.8 | 1036.3 | 1043.1 |
| 115°   | 650.2 | 748.2 | 833.1 | 898.9 | 943.1  | 973.1  | 991.6  | 1000.5 |
| 117.5° | 606.1 | 693.3 | 771.1 | 833.0 | 877.7  | 908.9  | 928.0  | 935.8  |
| 120°   | 582.1 | 662.4 | 732.4 | 790.9 | 834.6  | 865.1  | 885.4  | 894.8  |
| 122.5° | 561.9 | 635.9 | 702.5 | 755.6 | 794.6  | 824.1  | 842.1  | 850.0  |
| 125°   | 531.3 | 599.2 | 658.6 | 707.5 | 743.6  | 768.4  | 785.7  | 793.3  |
| 127.5° | 501.1 | 562.7 | 618.5 | 663.6 | 695.5  | 718.8  | 734.1  | 740.8  |
| 130°   | 481.8 | 539.0 | 592.2 | 635.3 | 666.0  | 688.1  | 702.2  | 709.5  |
| 132.5° | 462.9 | 516.2 | 565.5 | 606.2 | 636.4  | 658.5  | 671.7  | 678.6  |
| 135°   | 436.6 | 481.4 | 526.2 | 563.1 | 590.3  | 611.9  | 624.9  | 629.9  |
| 137.5° | 413.8 | 451.5 | 487.7 | 519.8 | 544.5  | 563.0  | 574.3  | 580.0  |
| 140°   | 399.5 | 432.3 | 464.0 | 492.8 | 513.1  | 530.0  | 540.6  | 546.0  |
| 142.5° | 388.5 | 416.1 | 443.0 | 467.1 | 486.2  | 501.4  | 510.8  | 513.3  |
| 145°   | 374.2 | 395.1 | 414.8 | 433.2 | 448.6  | 460.0  | 467.4  | 470.8  |
| 147.5° | 363.7 | 378.8 | 392.9 | 405.5 | 417.6  | 426.2  | 430.9  | 432.7  |
| 150°   | 358.1 | 370.7 | 382.7 | 392.9 | 401.5  | 408.3  | 411.7  | 412.3  |
| 152.5° | 353.1 | 364.8 | 374.9 | 383.8 | 390.5  | 396.5  | 399.0  | 399.1  |
| 155°   | 346.2 | 355.3 | 363.8 | 370.1 | 376.4  | 380.4  | 382.7  | 381.5  |
| 157.5° | 338.1 | 345.7 | 352.9 | 357.8 | 362.2  | 365.6  | 366.6  | 366.6  |
| 160°   | 333.0 | 339.3 | 345.6 | 349.6 | 353.6  | 356.4  | 357.0  | 357.0  |
| 162.5° | 328.0 | 333.4 | 338.8 | 341.8 | 345.8  | 347.8  | 348.3  | 347.9  |
| 165°   | 320.5 | 324.5 | 328.5 | 330.8 | 333.0  | 335.3  | 335.3  | 334.8  |
| 167.5° | 313.3 | 316.4 | 319.1 | 321.2 | 322.2  | 323.5  | 323.4  | 322.7  |
| 170°   | 309.7 | 311.4 | 313.7 | 314.8 | 315.4  | 317.1  | 316.5  | 315.4  |
| 172.5° | 305.6 | 306.8 | 308.6 | 309.3 | 309.9  | 310.7  | 310.1  | 309.4  |
| 175°   | 301.1 | 301.7 | 302.3 | 302.8 | 302.8  | 303.4  | 302.8  | 301.7  |
| 177.5° | 297.9 | 297.9 | 298.4 | 298.4 | 298.4  | 298.4  | 297.9  | 297.0  |
| 180°   | 296.5 | 296.5 | 296.5 | 296.5 | 296.5  | 296.5  | 296.5  | 296.5  |

(END OF REPORT)