

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: P331988-935

Luminaire Tested: **S123DIP-S775D1025U935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331988-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S775D1025U935-4F0-1E-UDD-F  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1025 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6259.1 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: General Diffuse

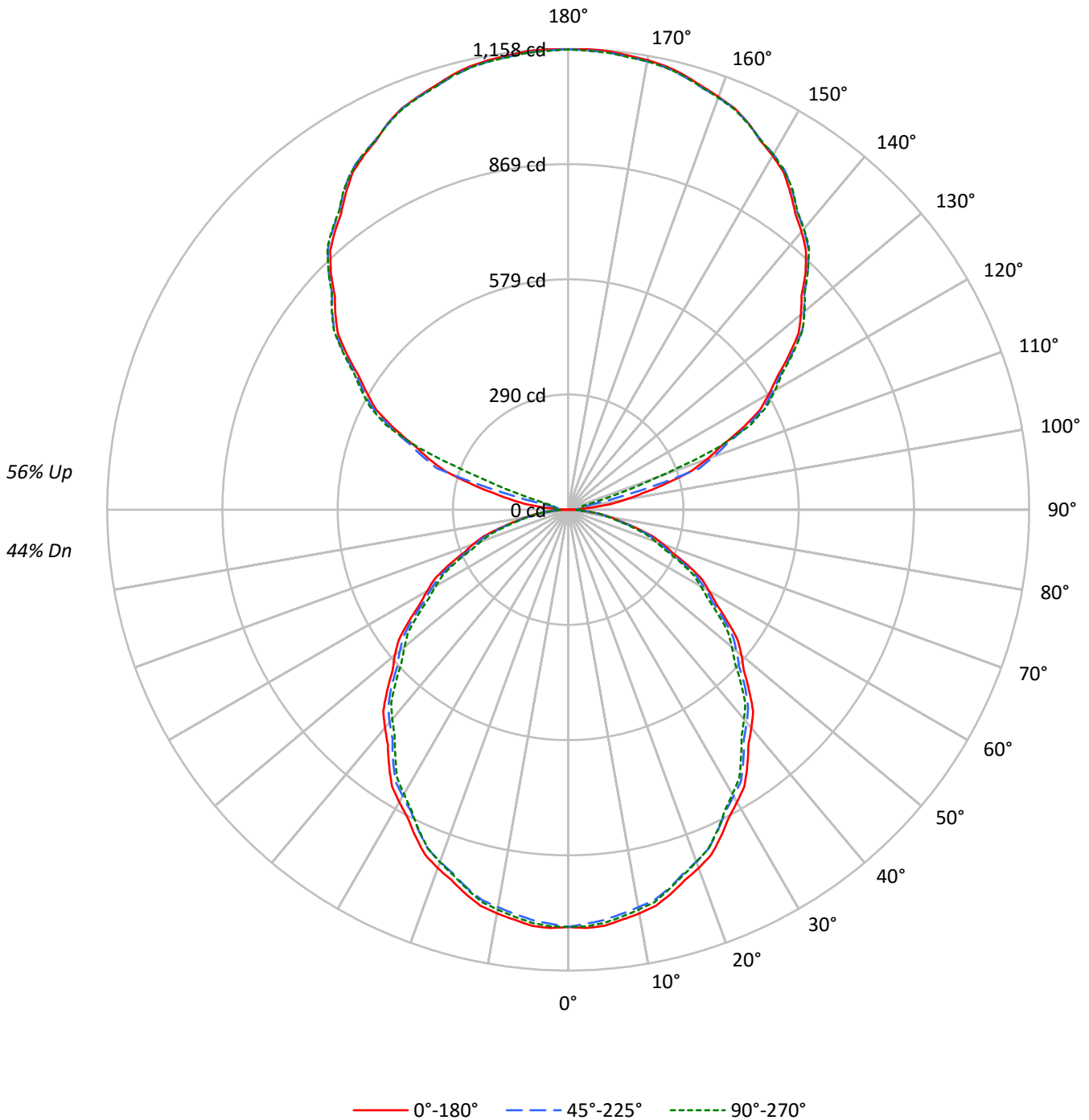
Input Watts (W): 52  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P331988-935

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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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 44 |
| 1   | 96  | 92  | 88  | 85  | 88 | 84 | 81 | 78 | 70 | 67 | 65 | 57 | 55 | 53 | 44 | 43 | 42 | 37 |
| 2   | 88  | 80  | 74  | 69  | 80 | 74 | 68 | 64 | 61 | 57 | 54 | 50 | 47 | 45 | 39 | 37 | 36 | 31 |
| 3   | 80  | 71  | 63  | 57  | 73 | 65 | 58 | 53 | 54 | 49 | 45 | 44 | 40 | 38 | 35 | 32 | 30 | 26 |
| 4   | 73  | 62  | 55  | 49  | 67 | 57 | 50 | 45 | 48 | 43 | 39 | 39 | 35 | 32 | 31 | 28 | 26 | 22 |
| 5   | 67  | 55  | 47  | 41  | 61 | 51 | 44 | 39 | 43 | 37 | 33 | 35 | 31 | 28 | 28 | 25 | 23 | 19 |
| 6   | 62  | 50  | 42  | 36  | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 32 | 28 | 24 | 25 | 22 | 20 | 17 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 35 | 29 | 25 | 29 | 25 | 22 | 23 | 20 | 18 | 15 |
| 8   | 53  | 41  | 33  | 28  | 48 | 38 | 31 | 26 | 32 | 26 | 23 | 26 | 22 | 19 | 21 | 18 | 16 | 13 |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 12 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 27 | 22 | 18 | 22 | 18 | 16 | 18 | 15 | 13 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11286 | 11286 | 11286 |
| 5°  | 11339 | 11182 | 11261 |
| 10° | 11262 | 11086 | 11154 |
| 15° | 11131 | 10961 | 10981 |
| 20° | 10977 | 10781 | 10791 |
| 25° | 10772 | 10568 | 10546 |
| 30° | 10544 | 10331 | 10253 |
| 35° | 10307 | 10081 | 9950  |
| 40° | 10058 | 9805  | 9653  |
| 45° | 9785  | 9552  | 9319  |
| 50° | 9512  | 9239  | 8982  |
| 55° | 9154  | 8916  | 8646  |
| 60° | 8792  | 8540  | 8269  |
| 65° | 8474  | 8130  | 7875  |
| 70° | 8003  | 7660  | 7320  |
| 75° | 7311  | 7049  | 6750  |
| 80° | 6595  | 6316  | 6261  |
| 85° | 5780  | 5570  | 5348  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 98.8   | 1.6       |
| 10°-20°   | 278.9  | 4.5       |
| 20°-30°   | 411.9  | 6.6       |
| 30°-40°   | 481.2  | 7.7       |
| 40°-50°   | 483.8  | 7.7       |
| 50°-60°   | 425.0  | 6.8       |
| 60°-70°   | 316.6  | 5.1       |
| 70°-80°   | 180.4  | 2.9       |
| 80°-90°   | 55.0   | 0.9       |
| 90°-100°  | 42.1   | 0.7       |
| 100°-110° | 200.4  | 3.2       |
| 110°-120° | 481.5  | 7.7       |
| 120°-130° | 613.1  | 9.8       |
| 130°-140° | 655.1  | 10.5      |
| 140°-150° | 612.6  | 9.8       |
| 150°-160° | 494.1  | 7.9       |
| 160°-170° | 318.9  | 5.1       |
| 170°-180° | 109.9  | 1.8       |
| 0°-30°    | 789.6  | 12.6      |
| 0°-40°    | 1270.8 | 20.3      |
| 0°-60°    | 2179.5 | 34.8      |
| 0°-90°    | 2731.5 | 43.6      |
| 90°-120°  | 724.0  | 11.6      |
| 90°-150°  | 2604.6 | 41.6      |
| 90°-180°  | 3528.0 | 56.4      |
| 0°-180°   | 6259.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1048 | 1048  | 1048 | 1048  | 1048 |      |
| 5°   | 1049 | 1045  | 1035 | 1043  | 1042 | 99   |
| 15°  | 999  | 995   | 984  | 990   | 985  | 281  |
| 25°  | 907  | 901   | 890  | 890   | 888  | 418  |
| 35°  | 784  | 779   | 767  | 762   | 757  | 490  |
| 45°  | 643  | 639   | 628  | 617   | 612  | 496  |
| 55°  | 488  | 486   | 475  | 466   | 461  | 437  |
| 65°  | 333  | 328   | 319  | 312   | 309  | 328  |
| 75°  | 176  | 172   | 170  | 165   | 162  | 188  |
| 85°  | 47   | 45    | 45   | 43    | 43   | 51   |
| 90°  | 1    | 10    | 21   | 24    | 26   | 5    |
| 95°  | 52   | 20    | 27   | 32    | 33   | 65   |
| 105° | 256  | 261   | 188  | 45    | 38   | 272  |
| 115° | 480  | 486   | 493  | 502   | 505  | 474  |
| 125° | 677  | 684   | 688  | 689   | 691  | 605  |
| 135° | 843  | 848   | 852  | 854   | 852  | 649  |
| 145° | 973  | 979   | 981  | 982   | 982  | 609  |
| 155° | 1072 | 1070  | 1071 | 1075  | 1070 | 494  |
| 165° | 1130 | 1128  | 1127 | 1133  | 1128 | 319  |
| 175° | 1157 | 1153  | 1153 | 1159  | 1152 | 110  |
| 180° | 1157 | 1157  | 1157 | 1157  | 1157 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1048.5 | 1048.5 | 1048.5 | 1048.5 | 1048.5 | 1048.5 | 1048.5 | 1048.5 | 1048.5 | 1048.5 | 1048.5 |
| 2.5°   | 1052.1 | 1051.5 | 1050.9 | 1050.2 | 1049.6 | 1048.4 | 1046.5 | 1044.8 | 1043.0 | 1041.3 | 1042.8 |
| 5°     | 1049.4 | 1048.4 | 1047.4 | 1046.4 | 1045.3 | 1043.8 | 1041.6 | 1039.4 | 1037.2 | 1034.9 | 1037.0 |
| 7.5°   | 1039.1 | 1038.1 | 1037.1 | 1036.1 | 1035.1 | 1033.5 | 1031.1 | 1028.9 | 1026.6 | 1024.3 | 1026.1 |
| 10°    | 1030.4 | 1029.4 | 1028.5 | 1027.4 | 1026.5 | 1024.7 | 1022.0 | 1019.4 | 1016.8 | 1014.3 | 1016.1 |
| 12.5°  | 1018.9 | 1018.0 | 1017.3 | 1016.4 | 1015.5 | 1013.9 | 1011.5 | 1009.0 | 1006.6 | 1004.1 | 1005.5 |
| 15°    | 998.9  | 998.1  | 997.3  | 996.5  | 995.7  | 994.0  | 991.4  | 988.8  | 986.2  | 983.6  | 985.2  |
| 17.5°  | 975.6  | 974.6  | 973.5  | 972.5  | 971.5  | 969.7  | 967.1  | 964.4  | 961.8  | 959.2  | 960.4  |
| 20°    | 958.3  | 957.1  | 956.0  | 954.8  | 953.6  | 951.6  | 949.0  | 946.4  | 943.8  | 941.2  | 942.0  |
| 22.5°  | 938.8  | 937.6  | 936.4  | 935.2  | 934.0  | 932.1  | 929.5  | 927.0  | 924.4  | 921.7  | 922.4  |
| 25°    | 907.0  | 905.8  | 904.6  | 903.4  | 902.2  | 900.3  | 897.6  | 895.0  | 892.4  | 889.8  | 890.0  |
| 27.5°  | 872.9  | 871.7  | 870.6  | 869.4  | 868.2  | 866.3  | 863.4  | 860.7  | 857.8  | 855.0  | 855.1  |
| 30°    | 848.3  | 847.3  | 846.4  | 845.3  | 844.3  | 842.4  | 839.6  | 836.8  | 834.1  | 831.2  | 831.2  |
| 32.5°  | 823.8  | 822.5  | 821.1  | 819.8  | 818.6  | 816.8  | 814.6  | 812.4  | 810.3  | 808.1  | 807.0  |
| 35°    | 784.4  | 783.2  | 782.0  | 780.8  | 779.5  | 777.7  | 775.0  | 772.4  | 769.8  | 767.2  | 766.0  |
| 37.5°  | 743.9  | 742.4  | 740.9  | 739.3  | 737.9  | 735.8  | 733.1  | 730.5  | 727.8  | 725.2  | 723.8  |
| 40°    | 715.8  | 714.6  | 713.4  | 712.2  | 711.0  | 709.0  | 706.2  | 703.4  | 700.6  | 697.8  | 696.2  |
| 42.5°  | 687.7  | 686.3  | 684.9  | 683.6  | 682.3  | 680.2  | 677.3  | 674.5  | 671.8  | 668.9  | 667.4  |
| 45°    | 642.8  | 642.0  | 641.2  | 640.4  | 639.6  | 637.9  | 635.2  | 632.7  | 630.1  | 627.5  | 625.1  |
| 47.5°  | 598.2  | 597.1  | 595.9  | 594.8  | 593.6  | 591.8  | 589.4  | 586.9  | 584.4  | 582.0  | 579.6  |
| 50°    | 568.0  | 567.0  | 565.9  | 565.0  | 564.0  | 562.1  | 559.6  | 557.0  | 554.3  | 551.7  | 549.6  |
| 52.5°  | 536.2  | 535.5  | 534.9  | 534.2  | 533.5  | 531.8  | 529.0  | 526.2  | 523.5  | 520.7  | 518.8  |
| 55°    | 487.8  | 487.5  | 487.3  | 487.2  | 486.9  | 485.5  | 482.9  | 480.4  | 477.7  | 475.1  | 472.9  |
| 57.5°  | 441.6  | 440.9  | 440.2  | 439.5  | 438.9  | 437.5  | 435.4  | 433.3  | 431.2  | 429.1  | 427.1  |
| 60°    | 408.4  | 408.2  | 408.0  | 407.8  | 407.6  | 406.3  | 403.9  | 401.5  | 399.1  | 396.7  | 394.9  |
| 62.5°  | 378.8  | 378.3  | 377.8  | 377.3  | 376.8  | 375.3  | 372.9  | 370.5  | 368.1  | 365.7  | 363.9  |
| 65°    | 332.7  | 331.7  | 330.6  | 329.7  | 328.6  | 327.2  | 325.1  | 323.1  | 321.2  | 319.2  | 317.5  |
| 67.5°  | 283.8  | 282.9  | 282.1  | 281.1  | 280.3  | 279.1  | 277.6  | 276.0  | 274.5  | 273.0  | 271.6  |
| 70°    | 254.3  | 253.0  | 251.8  | 250.6  | 249.4  | 248.2  | 247.0  | 245.8  | 244.6  | 243.4  | 242.0  |
| 72.5°  | 223.3  | 222.3  | 221.4  | 220.6  | 219.7  | 218.6  | 217.2  | 215.9  | 214.5  | 213.1  | 211.9  |
| 75°    | 175.8  | 175.0  | 174.2  | 173.4  | 172.6  | 171.9  | 171.3  | 170.7  | 170.0  | 169.5  | 168.5  |
| 77.5°  | 133.8  | 133.4  | 132.9  | 132.5  | 132.0  | 131.5  | 130.7  | 130.0  | 129.3  | 128.5  | 127.9  |
| 80°    | 106.4  | 105.8  | 105.2  | 104.6  | 104.0  | 103.5  | 103.1  | 102.7  | 102.3  | 101.9  | 101.7  |
| 82.5°  | 79.7   | 79.6   | 79.5   | 79.3   | 79.2   | 79.1   | 79.0   | 79.0   | 78.9   | 78.8   | 78.4   |
| 85°    | 46.8   | 46.5   | 46.1   | 45.7   | 45.3   | 45.1   | 45.1   | 45.1   | 45.1   | 45.1   | 44.7   |
| 87.5°  | 18.9   | 18.9   | 18.7   | 18.6   | 18.5   | 18.7   | 18.9   | 19.3   | 19.6   | 20.0   | 20.0   |
| 90°    | 0.9    | 2.8    | 4.6    | 6.6    | 8.5    | 10.7   | 13.2   | 15.7   | 18.2   | 20.7   | 21.4   |
| 92.5°  | 16.0   | 15.4   | 14.9   | 14.4   | 13.9   | 14.6   | 16.4   | 18.3   | 20.1   | 22.0   | 23.2   |
| 95°    | 52.4   | 44.6   | 36.8   | 28.9   | 21.1   | 18.3   | 20.3   | 22.5   | 24.5   | 26.6   | 28.0   |
| 97.5°  | 105.4  | 101.9  | 98.3   | 94.8   | 91.3   | 82.7   | 69.0   | 55.2   | 41.4   | 27.6   | 29.2   |
| 100°   | 145.3  | 149.0  | 152.9  | 156.7  | 160.5  | 147.5  | 117.7  | 87.9   | 58.1   | 28.3   | 29.9   |
| 102.5° | 190.6  | 193.4  | 196.1  | 198.9  | 201.6  | 186.8  | 154.2  | 121.7  | 89.1   | 56.6   | 51.8   |
| 105°   | 256.1  | 258.2  | 260.3  | 262.4  | 264.5  | 256.9  | 239.8  | 222.6  | 205.4  | 188.2  | 154.4  |
| 107.5° | 325.2  | 326.9  | 328.6  | 330.3  | 331.9  | 334.2  | 336.8  | 339.6  | 342.2  | 345.0  | 320.2  |
| 110°   | 371.3  | 372.8  | 374.3  | 375.8  | 377.4  | 379.2  | 381.3  | 383.4  | 385.5  | 387.6  | 381.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 415.3  | 416.6  | 418.0  | 419.4  | 420.8  | 422.5  | 424.6  | 426.7  | 428.8  | 430.9  | 431.0  |
| 115°   | 480.4  | 481.6  | 482.7  | 483.9  | 485.0  | 486.5  | 488.1  | 489.8  | 491.5  | 493.3  | 495.2  |
| 117.5° | 543.5  | 544.9  | 546.3  | 547.8  | 549.1  | 550.3  | 551.1  | 552.1  | 552.9  | 553.8  | 555.3  |
| 120°   | 582.6  | 584.4  | 586.1  | 587.8  | 589.5  | 590.7  | 591.2  | 591.9  | 592.5  | 593.0  | 594.5  |
| 122.5° | 622.6  | 624.0  | 625.3  | 626.8  | 628.2  | 629.3  | 630.0  | 630.8  | 631.5  | 632.1  | 633.3  |
| 125°   | 677.2  | 678.7  | 680.3  | 681.8  | 683.3  | 684.5  | 685.3  | 686.0  | 686.7  | 687.5  | 687.9  |
| 127.5° | 730.1  | 731.7  | 733.2  | 734.7  | 736.2  | 737.4  | 738.4  | 739.3  | 740.2  | 741.1  | 741.8  |
| 130°   | 763.2  | 764.7  | 766.2  | 767.8  | 769.3  | 770.4  | 771.2  | 772.0  | 772.7  | 773.4  | 774.2  |
| 132.5° | 794.8  | 796.3  | 797.8  | 799.4  | 800.9  | 801.9  | 802.5  | 803.1  | 803.8  | 804.4  | 805.2  |
| 135°   | 843.1  | 844.2  | 845.3  | 846.5  | 847.7  | 848.6  | 849.4  | 850.2  | 850.9  | 851.7  | 852.2  |
| 137.5° | 884.3  | 885.8  | 887.3  | 888.7  | 890.1  | 891.0  | 891.5  | 891.9  | 892.3  | 892.8  | 893.6  |
| 140°   | 911.8  | 913.0  | 914.1  | 915.2  | 916.4  | 917.3  | 917.8  | 918.4  | 919.0  | 919.5  | 920.3  |
| 142.5° | 937.3  | 938.4  | 939.5  | 940.7  | 941.8  | 942.7  | 943.3  | 943.8  | 944.4  | 945.0  | 945.6  |
| 145°   | 972.8  | 974.2  | 975.5  | 976.9  | 978.2  | 979.0  | 979.5  | 979.8  | 980.2  | 980.6  | 980.9  |
| 147.5° | 1006.3 | 1007.3 | 1008.1 | 1009.0 | 1009.9 | 1010.5 | 1010.9 | 1011.2 | 1011.7 | 1012.0 | 1012.4 |
| 150°   | 1027.0 | 1027.6 | 1028.1 | 1028.7 | 1029.2 | 1029.8 | 1030.1 | 1030.5 | 1030.9 | 1031.3 | 1031.7 |
| 152.5° | 1045.5 | 1045.9 | 1046.1 | 1046.4 | 1046.6 | 1046.9 | 1047.1 | 1047.3 | 1047.6 | 1047.8 | 1048.4 |
| 155°   | 1071.7 | 1071.3 | 1070.9 | 1070.6 | 1070.1 | 1070.1 | 1070.2 | 1070.4 | 1070.7 | 1070.8 | 1071.8 |
| 157.5° | 1091.9 | 1091.9 | 1091.9 | 1091.8 | 1091.8 | 1091.7 | 1091.5 | 1091.3 | 1091.1 | 1090.9 | 1092.1 |
| 160°   | 1104.3 | 1104.1 | 1104.0 | 1103.8 | 1103.5 | 1103.4 | 1103.2 | 1103.0 | 1102.8 | 1102.6 | 1103.8 |
| 162.5° | 1116.0 | 1115.5 | 1115.0 | 1114.6 | 1114.0 | 1113.7 | 1113.5 | 1113.3 | 1113.1 | 1112.9 | 1114.2 |
| 165°   | 1130.1 | 1129.5 | 1128.9 | 1128.4 | 1127.8 | 1127.5 | 1127.2 | 1127.0 | 1126.9 | 1126.7 | 1128.2 |
| 167.5° | 1141.1 | 1140.4 | 1139.6 | 1138.8 | 1138.1 | 1137.6 | 1137.6 | 1137.6 | 1137.6 | 1137.6 | 1139.2 |
| 170°   | 1147.3 | 1146.5 | 1145.8 | 1145.0 | 1144.3 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1145.4 |
| 172.5° | 1151.4 | 1150.6 | 1149.6 | 1148.7 | 1147.8 | 1147.4 | 1147.5 | 1147.7 | 1147.8 | 1148.0 | 1149.5 |
| 175°   | 1156.8 | 1155.8 | 1154.9 | 1153.9 | 1153.0 | 1152.5 | 1152.7 | 1153.0 | 1153.1 | 1153.3 | 1154.7 |
| 177.5° | 1158.1 | 1157.4 | 1156.6 | 1155.8 | 1155.1 | 1154.8 | 1154.9 | 1155.1 | 1155.2 | 1155.4 | 1156.6 |
| 180°   | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 |



TEST NUMBER: P331988-935

CATALOG NUMBER: S123DIP-S775D1025U935-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1048.5 | 1048.5 | 1048.5 | 1048.5 | 1048.5 | 1048.5 | 1048.5 | 1048.5 |
| 2.5°   | 1044.5 | 1046.1 | 1047.7 | 1048.4 | 1048.3 | 1048.1 | 1047.9 | 1047.8 |
| 5°     | 1039.0 | 1040.9 | 1043.0 | 1043.8 | 1043.4 | 1043.0 | 1042.6 | 1042.2 |
| 7.5°   | 1027.9 | 1029.8 | 1031.6 | 1032.3 | 1032.1 | 1031.8 | 1031.6 | 1031.4 |
| 10°    | 1017.9 | 1019.6 | 1021.4 | 1022.2 | 1021.7 | 1021.3 | 1021.0 | 1020.5 |
| 12.5°  | 1006.8 | 1008.1 | 1009.4 | 1010.0 | 1009.7 | 1009.4 | 1009.3 | 1009.0 |
| 15°    | 986.8  | 988.3  | 990.0  | 990.2  | 988.9  | 987.7  | 986.6  | 985.4  |
| 17.5°  | 961.5  | 962.6  | 963.7  | 964.1  | 963.6  | 963.2  | 962.8  | 962.3  |
| 20°    | 942.8  | 943.6  | 944.4  | 944.5  | 943.9  | 943.3  | 942.7  | 942.1  |
| 22.5°  | 923.0  | 923.7  | 924.3  | 924.2  | 923.5  | 922.7  | 922.0  | 921.2  |
| 25°    | 890.2  | 890.4  | 890.6  | 890.4  | 889.8  | 889.2  | 888.6  | 888.0  |
| 27.5°  | 855.3  | 855.5  | 855.7  | 855.3  | 854.6  | 853.9  | 853.1  | 852.3  |
| 30°    | 831.2  | 831.2  | 831.2  | 830.5  | 829.1  | 827.7  | 826.3  | 824.9  |
| 32.5°  | 805.9  | 804.8  | 803.7  | 802.7  | 801.9  | 801.2  | 800.4  | 799.7  |
| 35°    | 764.8  | 763.6  | 762.4  | 761.3  | 760.3  | 759.3  | 758.3  | 757.2  |
| 37.5°  | 722.3  | 720.8  | 719.5  | 718.4  | 717.7  | 717.1  | 716.4  | 715.8  |
| 40°    | 694.6  | 693.0  | 691.4  | 690.2  | 689.4  | 688.5  | 687.8  | 687.0  |
| 42.5°  | 665.7  | 664.1  | 662.5  | 661.3  | 660.6  | 659.7  | 658.9  | 658.1  |
| 45°    | 622.7  | 620.3  | 617.9  | 616.1  | 615.2  | 614.2  | 613.1  | 612.2  |
| 47.5°  | 577.3  | 575.0  | 572.6  | 570.9  | 570.1  | 569.2  | 568.3  | 567.4  |
| 50°    | 547.3  | 545.1  | 542.9  | 541.2  | 540.0  | 538.8  | 537.6  | 536.4  |
| 52.5°  | 516.9  | 515.1  | 513.2  | 511.7  | 510.5  | 509.3  | 508.1  | 506.9  |
| 55°    | 470.7  | 468.5  | 466.3  | 464.7  | 463.6  | 462.7  | 461.7  | 460.7  |
| 57.5°  | 425.2  | 423.3  | 421.3  | 419.7  | 418.5  | 417.4  | 416.2  | 415.1  |
| 60°    | 393.0  | 391.2  | 389.4  | 388.1  | 387.0  | 386.1  | 385.0  | 384.1  |
| 62.5°  | 362.1  | 360.2  | 358.4  | 357.2  | 356.5  | 355.9  | 355.2  | 354.5  |
| 65°    | 315.9  | 314.4  | 312.7  | 311.6  | 311.0  | 310.4  | 309.8  | 309.2  |
| 67.5°  | 270.2  | 268.8  | 267.3  | 266.2  | 265.4  | 264.6  | 263.7  | 262.9  |
| 70°    | 240.6  | 239.2  | 237.8  | 236.6  | 235.6  | 234.6  | 233.6  | 232.6  |
| 72.5°  | 210.6  | 209.4  | 208.2  | 207.2  | 206.7  | 206.2  | 205.7  | 205.2  |
| 75°    | 167.5  | 166.5  | 165.5  | 164.7  | 164.1  | 163.5  | 162.9  | 162.3  |
| 77.5°  | 127.2  | 126.5  | 125.8  | 125.5  | 125.5  | 125.5  | 125.5  | 125.5  |
| 80°    | 101.5  | 101.3  | 101.1  | 101.0  | 101.0  | 101.0  | 101.0  | 101.0  |
| 82.5°  | 78.1   | 77.7   | 77.3   | 77.1   | 77.0   | 76.8   | 76.6   | 76.5   |
| 85°    | 44.3   | 43.9   | 43.5   | 43.3   | 43.3   | 43.3   | 43.3   | 43.3   |
| 87.5°  | 20.0   | 20.0   | 20.0   | 20.0   | 20.1   | 20.1   | 20.2   | 20.3   |
| 90°    | 22.1   | 22.9   | 23.7   | 24.3   | 24.6   | 25.1   | 25.4   | 25.7   |
| 92.5°  | 24.5   | 25.7   | 26.9   | 27.6   | 27.8   | 28.1   | 28.3   | 28.5   |
| 95°    | 29.3   | 30.7   | 32.0   | 32.6   | 32.6   | 32.6   | 32.6   | 32.6   |
| 97.5°  | 30.7   | 32.3   | 33.8   | 34.6   | 34.9   | 35.0   | 35.2   | 35.4   |
| 100°   | 31.4   | 33.0   | 34.4   | 35.3   | 35.6   | 35.7   | 35.9   | 36.1   |
| 102.5° | 47.1   | 42.4   | 37.6   | 35.4   | 35.7   | 36.1   | 36.4   | 36.8   |
| 105°   | 120.6  | 86.8   | 53.0   | 36.2   | 36.7   | 37.0   | 37.5   | 37.8   |
| 107.5° | 295.4  | 270.6  | 245.8  | 220.7  | 195.2  | 169.7  | 144.2  | 118.7  |
| 110°   | 375.0  | 368.7  | 362.4  | 345.6  | 318.2  | 290.9  | 263.6  | 236.3  |





TEST NUMBER: P331988-935

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 431.1  | 431.3  | 431.4  | 428.5  | 422.8  | 417.0  | 411.2  | 405.4  |
| 115°   | 497.1  | 499.0  | 500.9  | 502.3  | 503.0  | 503.8  | 504.5  | 505.3  |
| 117.5° | 556.9  | 558.4  | 559.9  | 560.8  | 560.9  | 561.0  | 561.2  | 561.4  |
| 120°   | 596.1  | 597.5  | 599.1  | 599.9  | 599.9  | 599.9  | 599.9  | 599.9  |
| 122.5° | 634.3  | 635.4  | 636.5  | 637.1  | 637.2  | 637.4  | 637.5  | 637.7  |
| 125°   | 688.3  | 688.6  | 689.1  | 689.4  | 689.8  | 690.2  | 690.6  | 691.0  |
| 127.5° | 742.4  | 743.0  | 743.6  | 743.7  | 743.3  | 743.0  | 742.5  | 742.2  |
| 130°   | 775.0  | 775.8  | 776.5  | 776.7  | 776.4  | 775.9  | 775.6  | 775.2  |
| 132.5° | 805.9  | 806.7  | 807.4  | 807.5  | 807.0  | 806.5  | 806.0  | 805.5  |
| 135°   | 852.8  | 853.4  | 853.9  | 853.9  | 853.4  | 852.8  | 852.2  | 851.7  |
| 137.5° | 894.6  | 895.5  | 896.4  | 896.6  | 896.3  | 896.0  | 895.5  | 895.2  |
| 140°   | 921.1  | 921.9  | 922.6  | 922.8  | 922.4  | 922.0  | 921.7  | 921.3  |
| 142.5° | 946.2  | 946.8  | 947.4  | 947.4  | 946.9  | 946.4  | 945.9  | 945.4  |
| 145°   | 981.4  | 981.7  | 982.1  | 982.3  | 982.3  | 982.3  | 982.3  | 982.3  |
| 147.5° | 1012.8 | 1013.1 | 1013.6 | 1013.3 | 1012.4 | 1011.6 | 1010.6 | 1009.8 |
| 150°   | 1032.1 | 1032.4 | 1032.9 | 1032.7 | 1032.2 | 1031.6 | 1031.0 | 1030.4 |
| 152.5° | 1049.1 | 1049.8 | 1050.5 | 1050.4 | 1049.6 | 1048.7 | 1047.8 | 1046.9 |
| 155°   | 1072.7 | 1073.7 | 1074.6 | 1074.5 | 1073.4 | 1072.3 | 1071.1 | 1070.0 |
| 157.5° | 1093.2 | 1094.3 | 1095.5 | 1095.4 | 1093.8 | 1092.4 | 1090.9 | 1089.4 |
| 160°   | 1104.9 | 1106.0 | 1107.2 | 1107.1 | 1105.8 | 1104.4 | 1103.1 | 1101.7 |
| 162.5° | 1115.5 | 1116.8 | 1118.1 | 1118.2 | 1117.0 | 1115.8 | 1114.7 | 1113.4 |
| 165°   | 1129.7 | 1131.3 | 1132.8 | 1132.9 | 1131.5 | 1130.2 | 1128.9 | 1127.6 |
| 167.5° | 1140.7 | 1142.3 | 1143.8 | 1143.8 | 1142.3 | 1140.7 | 1139.2 | 1137.6 |
| 170°   | 1146.9 | 1148.5 | 1150.0 | 1150.0 | 1148.5 | 1146.9 | 1145.4 | 1143.8 |
| 172.5° | 1151.1 | 1152.5 | 1154.1 | 1154.0 | 1152.4 | 1150.6 | 1149.0 | 1147.3 |
| 175°   | 1156.0 | 1157.4 | 1158.6 | 1158.6 | 1157.0 | 1155.5 | 1154.0 | 1152.4 |
| 177.5° | 1157.8 | 1159.1 | 1160.3 | 1160.1 | 1158.6 | 1157.1 | 1155.5 | 1154.0 |
| 180°   | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 |

(END OF REPORT)