

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: P332179-830

Luminaire Tested: **S123DIW-S775D1535U830-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332179-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S775D1535U830-4F0-1E-UDD-F1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

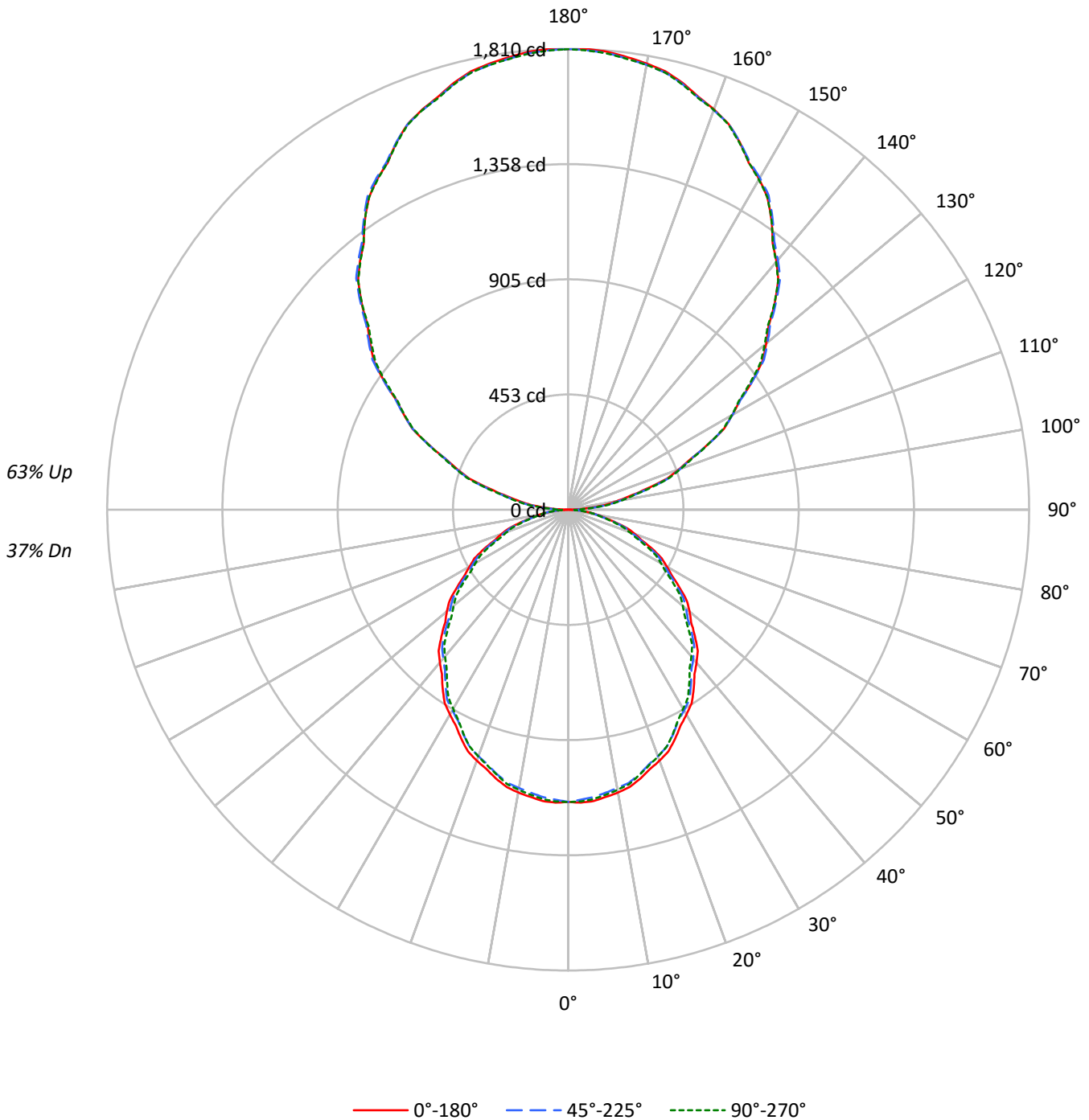
Lumens per Lamp: N/A  
Luminaire Lumens: 8005.0 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (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



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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   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 60 | 60 | 60 | 45 | 45 | 45 | 37 |
| 1   | 95  | 91  | 87  | 83  | 86 | 82 | 79 | 76 | 67 | 64 | 62 | 52 | 51 | 50 | 39 | 38 | 37 | 31 |
| 2   | 86  | 79  | 73  | 68  | 78 | 72 | 67 | 62 | 58 | 55 | 52 | 46 | 43 | 41 | 34 | 33 | 31 | 26 |
| 3   | 79  | 69  | 62  | 57  | 71 | 63 | 57 | 52 | 51 | 47 | 43 | 41 | 38 | 35 | 31 | 29 | 27 | 22 |
| 4   | 72  | 61  | 54  | 48  | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 32 | 29 | 26 | 25 | 22 | 20 | 17 |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 31 | 28 | 29 | 25 | 23 | 22 | 20 | 18 | 14 |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 33 | 29 | 33 | 28 | 24 | 27 | 23 | 20 | 20 | 18 | 16 | 13 |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 18 | 19 | 16 | 14 | 11 |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 10 |
| 10  | 45  | 33  | 26  | 21  | 41 | 31 | 24 | 20 | 25 | 20 | 17 | 21 | 17 | 14 | 16 | 13 | 11 | 9  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12355 | 12355 | 12355 |
| 5°  | 12413 | 12241 | 12327 |
| 10° | 12329 | 12136 | 12211 |
| 15° | 12186 | 11999 | 12021 |
| 20° | 12016 | 11802 | 11813 |
| 25° | 11792 | 11569 | 11545 |
| 30° | 11543 | 11309 | 11225 |
| 35° | 11284 | 11037 | 10893 |
| 40° | 11011 | 10732 | 10568 |
| 45° | 10712 | 10456 | 10201 |
| 50° | 10412 | 10114 | 9833  |
| 55° | 10021 | 9760  | 9466  |
| 60° | 9623  | 9347  | 9052  |
| 65° | 9276  | 8899  | 8621  |
| 70° | 8759  | 8387  | 8013  |
| 75° | 8006  | 7719  | 7390  |
| 80° | 7221  | 6912  | 6856  |
| 85° | 6336  | 6101  | 5854  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 108.1  | 1.4       |
| 10°-20°   | 305.3  | 3.8       |
| 20°-30°   | 451.0  | 5.6       |
| 30°-40°   | 526.8  | 6.6       |
| 40°-50°   | 529.6  | 6.6       |
| 50°-60°   | 465.2  | 5.8       |
| 60°-70°   | 346.6  | 4.3       |
| 70°-80°   | 197.5  | 2.5       |
| 80°-90°   | 62.0   | 0.8       |
| 90°-100°  | 117.9  | 1.5       |
| 100°-110° | 352.8  | 4.4       |
| 110°-120° | 600.0  | 7.5       |
| 120°-130° | 789.3  | 9.9       |
| 130°-140° | 887.1  | 11.1      |
| 140°-150° | 872.0  | 10.9      |
| 150°-160° | 734.1  | 9.2       |
| 160°-170° | 488.7  | 6.1       |
| 170°-180° | 171.1  | 2.1       |
| 0°-30°    | 864.4  | 10.8      |
| 0°-40°    | 1391.1 | 17.4      |
| 0°-60°    | 2385.9 | 29.8      |
| 0°-90°    | 2992.0 | 37.4      |
| 90°-120°  | 1070.7 | 13.4      |
| 90°-150°  | 3619.1 | 45.2      |
| 90°-180°  | 5013.0 | 62.6      |
| 0°-180°   | 8005.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1148 | 1148  | 1148 | 1148  | 1148 |      |
| 5°   | 1149 | 1143  | 1133 | 1142  | 1141 | 109  |
| 15°  | 1094 | 1089  | 1077 | 1084  | 1079 | 308  |
| 25°  | 993  | 987   | 974  | 975   | 972  | 457  |
| 35°  | 859  | 852   | 840  | 834   | 829  | 537  |
| 45°  | 704  | 699   | 687  | 675   | 670  | 543  |
| 55°  | 534  | 532   | 520  | 510   | 504  | 478  |
| 65°  | 364  | 359   | 349  | 342   | 338  | 359  |
| 75°  | 192  | 189   | 186  | 181   | 178  | 206  |
| 85°  | 51   | 50    | 49   | 48    | 47   | 56   |
| 90°  | 1    | 16    | 34   | 40    | 43   | 8    |
| 95°  | 84   | 94    | 105  | 110   | 111  | 94   |
| 105° | 320  | 323   | 336  | 336   | 338  | 343  |
| 115° | 604  | 608   | 606  | 607   | 606  | 597  |
| 125° | 884  | 888   | 886  | 880   | 874  | 788  |
| 135° | 1147 | 1155  | 1154 | 1149  | 1146 | 884  |
| 145° | 1392 | 1394  | 1398 | 1397  | 1392 | 869  |
| 155° | 1593 | 1593  | 1595 | 1600  | 1590 | 733  |
| 165° | 1735 | 1731  | 1731 | 1739  | 1730 | 489  |
| 175° | 1805 | 1800  | 1799 | 1807  | 1798 | 171  |
| 180° | 1809 | 1809  | 1809 | 1809  | 1809 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 |
| 2.5°   | 1151.7 | 1151.0 | 1150.4 | 1149.6 | 1149.0 | 1147.6 | 1145.7 | 1143.8 | 1141.8 | 1139.9 | 1141.6 |
| 5°     | 1148.8 | 1147.6 | 1146.6 | 1145.5 | 1144.3 | 1142.6 | 1140.2 | 1137.8 | 1135.4 | 1132.9 | 1135.2 |
| 7.5°   | 1137.6 | 1136.4 | 1135.3 | 1134.3 | 1133.1 | 1131.3 | 1128.8 | 1126.3 | 1123.8 | 1121.3 | 1123.3 |
| 10°    | 1128.0 | 1126.9 | 1125.9 | 1124.7 | 1123.7 | 1121.7 | 1118.8 | 1116.0 | 1113.1 | 1110.3 | 1112.3 |
| 12.5°  | 1115.4 | 1114.5 | 1113.6 | 1112.7 | 1111.7 | 1109.9 | 1107.3 | 1104.6 | 1101.9 | 1099.2 | 1100.7 |
| 15°    | 1093.5 | 1092.6 | 1091.7 | 1090.9 | 1090.0 | 1088.2 | 1085.2 | 1082.4 | 1079.6 | 1076.8 | 1078.5 |
| 17.5°  | 1068.0 | 1066.9 | 1065.7 | 1064.6 | 1063.5 | 1061.5 | 1058.7 | 1055.7 | 1052.9 | 1050.1 | 1051.3 |
| 20°    | 1049.0 | 1047.7 | 1046.5 | 1045.2 | 1043.9 | 1041.7 | 1038.9 | 1036.0 | 1033.2 | 1030.3 | 1031.2 |
| 22.5°  | 1027.7 | 1026.4 | 1025.1 | 1023.8 | 1022.5 | 1020.4 | 1017.6 | 1014.7 | 1011.9 | 1009.0 | 1009.7 |
| 25°    | 992.9  | 991.6  | 990.2  | 988.9  | 987.6  | 985.5  | 982.6  | 979.8  | 976.9  | 974.1  | 974.3  |
| 27.5°  | 955.5  | 954.2  | 953.0  | 951.7  | 950.5  | 948.3  | 945.2  | 942.2  | 939.1  | 935.9  | 936.1  |
| 30°    | 928.7  | 927.6  | 926.5  | 925.4  | 924.3  | 922.2  | 919.2  | 916.1  | 913.0  | 909.9  | 909.9  |
| 32.5°  | 901.8  | 900.4  | 898.9  | 897.5  | 896.1  | 894.2  | 891.7  | 889.4  | 887.0  | 884.7  | 883.4  |
| 35°    | 858.7  | 857.3  | 856.0  | 854.7  | 853.4  | 851.3  | 848.4  | 845.6  | 842.7  | 839.9  | 838.6  |
| 37.5°  | 814.4  | 812.8  | 811.1  | 809.4  | 807.8  | 805.5  | 802.6  | 799.7  | 796.7  | 793.9  | 792.3  |
| 40°    | 783.6  | 782.3  | 781.0  | 779.7  | 778.4  | 776.2  | 773.1  | 770.1  | 766.9  | 763.8  | 762.1  |
| 42.5°  | 752.8  | 751.3  | 749.8  | 748.4  | 746.9  | 744.6  | 741.5  | 738.4  | 735.4  | 732.3  | 730.6  |
| 45°    | 703.7  | 702.8  | 701.9  | 701.1  | 700.1  | 698.3  | 695.4  | 692.6  | 689.8  | 686.9  | 684.3  |
| 47.5°  | 654.9  | 653.7  | 652.3  | 651.1  | 649.8  | 647.8  | 645.2  | 642.5  | 639.8  | 637.2  | 634.5  |
| 50°    | 621.8  | 620.7  | 619.5  | 618.5  | 617.4  | 615.4  | 612.6  | 609.7  | 606.8  | 604.0  | 601.6  |
| 52.5°  | 587.0  | 586.3  | 585.5  | 584.8  | 584.0  | 582.1  | 579.1  | 576.1  | 573.1  | 570.0  | 568.0  |
| 55°    | 534.0  | 533.7  | 533.5  | 533.3  | 533.0  | 531.5  | 528.7  | 525.8  | 522.9  | 520.1  | 517.7  |
| 57.5°  | 483.4  | 482.7  | 481.9  | 481.2  | 480.4  | 478.9  | 476.6  | 474.3  | 472.0  | 469.8  | 467.6  |
| 60°    | 447.0  | 446.9  | 446.7  | 446.4  | 446.2  | 444.8  | 442.1  | 439.5  | 436.9  | 434.2  | 432.3  |
| 62.5°  | 414.7  | 414.2  | 413.6  | 413.0  | 412.5  | 410.9  | 408.2  | 405.6  | 402.9  | 400.3  | 398.3  |
| 65°    | 364.2  | 363.1  | 361.9  | 360.9  | 359.8  | 358.2  | 355.9  | 353.7  | 351.6  | 349.4  | 347.6  |
| 67.5°  | 310.7  | 309.7  | 308.8  | 307.7  | 306.8  | 305.5  | 303.9  | 302.2  | 300.5  | 298.9  | 297.3  |
| 70°    | 278.3  | 277.0  | 275.7  | 274.4  | 273.1  | 271.7  | 270.4  | 269.1  | 267.8  | 266.5  | 264.9  |
| 72.5°  | 244.4  | 243.4  | 242.4  | 241.5  | 240.5  | 239.3  | 237.8  | 236.3  | 234.8  | 233.3  | 232.0  |
| 75°    | 192.5  | 191.5  | 190.7  | 189.8  | 189.0  | 188.1  | 187.5  | 186.8  | 186.2  | 185.6  | 184.5  |
| 77.5°  | 146.5  | 146.0  | 145.5  | 145.1  | 144.5  | 143.9  | 143.1  | 142.3  | 141.6  | 140.7  | 140.0  |
| 80°    | 116.5  | 115.8  | 115.2  | 114.5  | 113.9  | 113.3  | 112.8  | 112.4  | 112.0  | 111.5  | 111.3  |
| 82.5°  | 87.3   | 87.1   | 87.0   | 86.8   | 86.7   | 86.6   | 86.5   | 86.4   | 86.3   | 86.2   | 85.9   |
| 85°    | 51.3   | 50.9   | 50.4   | 50.0   | 49.6   | 49.4   | 49.4   | 49.4   | 49.4   | 49.4   | 48.9   |
| 87.5°  | 20.8   | 20.9   | 21.0   | 21.1   | 21.2   | 21.6   | 22.2   | 22.9   | 23.6   | 24.2   | 24.2   |
| 90°    | 1.4    | 4.6    | 7.7    | 10.9   | 14.0   | 17.7   | 21.8   | 25.9   | 30.0   | 34.1   | 35.3   |
| 92.5°  | 34.4   | 36.6   | 38.6   | 40.8   | 43.0   | 45.2   | 47.6   | 49.9   | 52.2   | 54.6   | 55.6   |
| 95°    | 83.9   | 86.1   | 88.3   | 90.5   | 92.7   | 95.1   | 97.6   | 100.1  | 102.6  | 105.2  | 106.4  |
| 97.5°  | 148.9  | 150.6  | 152.2  | 153.9  | 155.5  | 157.2  | 159.1  | 160.9  | 162.8  | 164.6  | 166.1  |
| 100°   | 193.3  | 195.2  | 197.1  | 199.0  | 200.9  | 202.6  | 204.2  | 205.8  | 207.4  | 209.0  | 209.9  |
| 102.5° | 244.5  | 245.6  | 246.8  | 247.9  | 249.0  | 250.6  | 252.7  | 254.8  | 256.8  | 258.9  | 260.0  |
| 105°   | 319.8  | 320.5  | 321.0  | 321.7  | 322.3  | 324.0  | 326.9  | 329.7  | 332.6  | 335.5  | 335.5  |
| 107.5° | 407.4  | 407.7  | 408.1  | 408.5  | 408.9  | 409.6  | 410.8  | 411.9  | 413.0  | 414.2  | 415.2  |
| 110°   | 461.9  | 462.6  | 463.2  | 463.8  | 464.5  | 465.1  | 465.7  | 466.4  | 466.9  | 467.6  | 468.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 518.8  | 519.2  | 519.5  | 519.9  | 520.3  | 520.6  | 520.7  | 520.8  | 520.9  | 521.0  | 522.5  |
| 115°   | 604.1  | 605.0  | 606.0  | 606.9  | 607.8  | 608.0  | 607.4  | 606.7  | 606.1  | 605.5  | 605.8  |
| 117.5° | 689.9  | 690.5  | 691.2  | 691.8  | 692.4  | 692.3  | 691.5  | 690.7  | 689.8  | 689.1  | 689.0  |
| 120°   | 743.4  | 745.3  | 747.2  | 749.0  | 750.9  | 751.1  | 749.5  | 747.9  | 746.3  | 744.8  | 744.4  |
| 122.5° | 799.1  | 800.4  | 801.8  | 803.2  | 804.6  | 804.9  | 804.1  | 803.2  | 802.5  | 801.6  | 800.8  |
| 125°   | 884.0  | 885.0  | 886.0  | 886.9  | 887.9  | 888.0  | 887.4  | 886.7  | 886.1  | 885.5  | 884.2  |
| 127.5° | 962.5  | 964.5  | 966.6  | 968.6  | 970.6  | 971.3  | 970.5  | 969.9  | 969.2  | 968.5  | 966.7  |
| 130°   | 1014.8 | 1017.4 | 1019.8 | 1022.4 | 1024.9 | 1025.7 | 1024.7 | 1023.8 | 1022.8 | 1021.9 | 1020.7 |
| 132.5° | 1067.1 | 1069.6 | 1072.1 | 1074.7 | 1077.2 | 1078.2 | 1077.4 | 1076.8 | 1076.0 | 1075.3 | 1073.8 |
| 135°   | 1147.0 | 1148.9 | 1150.8 | 1152.6 | 1154.6 | 1155.4 | 1155.1 | 1154.7 | 1154.4 | 1154.1 | 1152.8 |
| 137.5° | 1220.9 | 1222.5 | 1224.1 | 1225.7 | 1227.2 | 1228.4 | 1229.3 | 1230.0 | 1230.9 | 1231.7 | 1230.4 |
| 140°   | 1272.1 | 1273.7 | 1275.3 | 1276.8 | 1278.4 | 1279.3 | 1279.7 | 1280.0 | 1280.3 | 1280.6 | 1280.3 |
| 142.5° | 1318.7 | 1320.2 | 1321.8 | 1323.4 | 1325.0 | 1326.1 | 1326.6 | 1327.2 | 1327.8 | 1328.3 | 1328.0 |
| 145°   | 1391.5 | 1392.1 | 1392.7 | 1393.4 | 1394.0 | 1394.8 | 1395.7 | 1396.7 | 1397.6 | 1398.5 | 1398.3 |
| 147.5° | 1455.1 | 1456.2 | 1457.4 | 1458.6 | 1459.7 | 1460.7 | 1461.6 | 1462.4 | 1463.3 | 1464.2 | 1464.2 |
| 150°   | 1499.5 | 1500.2 | 1500.7 | 1501.4 | 1502.0 | 1502.6 | 1503.3 | 1503.9 | 1504.5 | 1505.1 | 1505.1 |
| 152.5° | 1535.9 | 1536.7 | 1537.7 | 1538.5 | 1539.4 | 1540.0 | 1540.4 | 1540.8 | 1541.2 | 1541.5 | 1542.1 |
| 155°   | 1593.3 | 1593.3 | 1593.3 | 1593.3 | 1593.3 | 1593.5 | 1593.7 | 1594.0 | 1594.4 | 1594.7 | 1596.0 |
| 157.5° | 1642.2 | 1641.8 | 1641.4 | 1641.1 | 1640.7 | 1640.6 | 1640.9 | 1641.1 | 1641.3 | 1641.6 | 1642.9 |
| 160°   | 1672.9 | 1672.3 | 1671.6 | 1670.9 | 1670.4 | 1670.0 | 1670.0 | 1670.0 | 1670.0 | 1670.0 | 1671.6 |
| 162.5° | 1700.2 | 1699.3 | 1698.4 | 1697.5 | 1696.7 | 1696.3 | 1696.6 | 1696.9 | 1697.0 | 1697.3 | 1698.9 |
| 165°   | 1735.4 | 1734.5 | 1733.5 | 1732.6 | 1731.6 | 1731.2 | 1731.2 | 1731.2 | 1731.2 | 1731.2 | 1733.1 |
| 167.5° | 1763.6 | 1762.3 | 1761.0 | 1759.7 | 1758.5 | 1758.0 | 1758.2 | 1758.5 | 1758.8 | 1759.0 | 1761.0 |
| 170°   | 1779.4 | 1778.2 | 1777.0 | 1775.7 | 1774.4 | 1773.8 | 1773.8 | 1773.8 | 1773.8 | 1773.8 | 1776.0 |
| 172.5° | 1792.0 | 1790.7 | 1789.4 | 1788.2 | 1787.0 | 1786.3 | 1786.3 | 1786.3 | 1786.3 | 1786.3 | 1788.3 |
| 175°   | 1805.1 | 1803.8 | 1802.5 | 1801.3 | 1800.0 | 1799.4 | 1799.4 | 1799.4 | 1799.4 | 1799.4 | 1801.3 |
| 177.5° | 1810.4 | 1809.5 | 1808.5 | 1807.4 | 1806.4 | 1805.9 | 1805.9 | 1805.9 | 1805.9 | 1805.9 | 1807.4 |
| 180°   | 1809.3 | 1809.3 | 1809.3 | 1809.3 | 1809.3 | 1809.3 | 1809.3 | 1809.3 | 1809.3 | 1809.3 | 1809.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 |
| 2.5°   | 1143.4 | 1145.2 | 1146.9 | 1147.7 | 1147.5 | 1147.4 | 1147.2 | 1147.0 |
| 5°     | 1137.4 | 1139.5 | 1141.8 | 1142.6 | 1142.2 | 1141.8 | 1141.3 | 1140.9 |
| 7.5°   | 1125.3 | 1127.3 | 1129.3 | 1130.1 | 1129.8 | 1129.5 | 1129.3 | 1129.1 |
| 10°    | 1114.3 | 1116.2 | 1118.1 | 1119.0 | 1118.5 | 1118.0 | 1117.7 | 1117.2 |
| 12.5°  | 1102.1 | 1103.5 | 1105.0 | 1105.6 | 1105.3 | 1105.0 | 1104.8 | 1104.6 |
| 15°    | 1080.2 | 1081.9 | 1083.7 | 1083.9 | 1082.6 | 1081.3 | 1080.1 | 1078.7 |
| 17.5°  | 1052.5 | 1053.8 | 1055.0 | 1055.4 | 1054.9 | 1054.4 | 1054.0 | 1053.5 |
| 20°    | 1032.1 | 1032.9 | 1033.9 | 1034.0 | 1033.3 | 1032.6 | 1032.0 | 1031.3 |
| 22.5°  | 1010.4 | 1011.2 | 1011.8 | 1011.7 | 1011.0 | 1010.1 | 1009.3 | 1008.4 |
| 25°    | 974.5  | 974.8  | 975.0  | 974.8  | 974.1  | 973.5  | 972.8  | 972.1  |
| 27.5°  | 936.3  | 936.5  | 936.7  | 936.3  | 935.6  | 934.7  | 933.9  | 933.0  |
| 30°    | 909.9  | 909.9  | 909.9  | 909.2  | 907.7  | 906.1  | 904.6  | 903.1  |
| 32.5°  | 882.2  | 881.0  | 879.8  | 878.7  | 877.9  | 877.0  | 876.2  | 875.4  |
| 35°    | 837.3  | 835.9  | 834.6  | 833.4  | 832.3  | 831.2  | 830.1  | 829.0  |
| 37.5°  | 790.7  | 789.1  | 787.6  | 786.5  | 785.7  | 785.0  | 784.3  | 783.6  |
| 40°    | 760.3  | 758.7  | 756.9  | 755.5  | 754.7  | 753.8  | 752.9  | 752.1  |
| 42.5°  | 728.8  | 727.0  | 725.3  | 724.0  | 723.1  | 722.2  | 721.3  | 720.5  |
| 45°    | 681.6  | 679.0  | 676.4  | 674.5  | 673.4  | 672.3  | 671.2  | 670.1  |
| 47.5°  | 632.0  | 629.4  | 626.8  | 625.0  | 624.1  | 623.1  | 622.2  | 621.1  |
| 50°    | 599.2  | 596.7  | 594.4  | 592.5  | 591.2  | 589.8  | 588.5  | 587.2  |
| 52.5°  | 565.9  | 563.8  | 561.8  | 560.2  | 558.8  | 557.5  | 556.2  | 554.9  |
| 55°    | 515.3  | 512.8  | 510.5  | 508.7  | 507.6  | 506.5  | 505.4  | 504.4  |
| 57.5°  | 465.4  | 463.4  | 461.2  | 459.5  | 458.2  | 456.9  | 455.6  | 454.4  |
| 60°    | 430.3  | 428.3  | 426.3  | 424.8  | 423.7  | 422.6  | 421.5  | 420.5  |
| 62.5°  | 396.3  | 394.4  | 392.4  | 391.1  | 390.3  | 389.6  | 388.8  | 388.0  |
| 65°    | 345.8  | 344.1  | 342.3  | 341.1  | 340.4  | 339.8  | 339.1  | 338.5  |
| 67.5°  | 295.8  | 294.3  | 292.7  | 291.4  | 290.6  | 289.6  | 288.7  | 287.8  |
| 70°    | 263.4  | 261.8  | 260.3  | 259.0  | 257.9  | 256.8  | 255.7  | 254.6  |
| 72.5°  | 230.5  | 229.2  | 227.9  | 226.9  | 226.3  | 225.7  | 225.2  | 224.6  |
| 75°    | 183.3  | 182.3  | 181.2  | 180.3  | 179.6  | 179.0  | 178.3  | 177.7  |
| 77.5°  | 139.2  | 138.5  | 137.7  | 137.4  | 137.4  | 137.4  | 137.4  | 137.4  |
| 80°    | 111.1  | 110.8  | 110.7  | 110.6  | 110.6  | 110.6  | 110.6  | 110.6  |
| 82.5°  | 85.5   | 85.1   | 84.6   | 84.4   | 84.3   | 84.1   | 83.9   | 83.7   |
| 85°    | 48.4   | 48.1   | 47.6   | 47.4   | 47.4   | 47.4   | 47.4   | 47.4   |
| 87.5°  | 24.3   | 24.4   | 24.5   | 24.6   | 24.7   | 24.9   | 25.0   | 25.1   |
| 90°    | 36.7   | 37.9   | 39.2   | 40.2   | 40.7   | 41.4   | 42.0   | 42.6   |
| 92.5°  | 56.6   | 57.6   | 58.6   | 58.9   | 58.5   | 58.2   | 57.8   | 57.4   |
| 95°    | 107.7  | 109.0  | 110.2  | 110.8  | 110.8  | 110.8  | 110.8  | 110.8  |
| 97.5°  | 167.5  | 168.9  | 170.4  | 171.1  | 171.0  | 170.8  | 170.7  | 170.6  |
| 100°   | 210.8  | 211.8  | 212.7  | 213.5  | 214.1  | 214.8  | 215.4  | 216.0  |
| 102.5° | 260.9  | 261.8  | 262.8  | 263.2  | 263.1  | 262.9  | 262.8  | 262.7  |
| 105°   | 335.5  | 335.5  | 335.5  | 335.7  | 336.4  | 337.1  | 337.6  | 338.3  |
| 107.5° | 416.2  | 417.2  | 418.2  | 418.5  | 418.1  | 417.7  | 417.4  | 417.0  |
| 110°   | 470.1  | 471.4  | 472.7  | 473.0  | 472.3  | 471.7  | 471.1  | 470.4  |





TEST NUMBER: P332179-830

CATALOG NUMBER: S123DIW-S775D1535U830-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 524.1  | 525.6  | 527.1  | 527.8  | 527.7  | 527.5  | 527.4  | 527.3  |
| 115°   | 606.1  | 606.4  | 606.7  | 606.7  | 606.4  | 606.1  | 605.8  | 605.5  |
| 117.5° | 688.9  | 688.9  | 688.8  | 688.3  | 687.4  | 686.5  | 685.7  | 684.8  |
| 120°   | 744.1  | 743.9  | 743.5  | 743.0  | 742.4  | 741.8  | 741.1  | 740.5  |
| 122.5° | 799.9  | 799.2  | 798.3  | 797.5  | 796.6  | 795.7  | 794.8  | 793.9  |
| 125°   | 883.0  | 881.7  | 880.4  | 879.1  | 877.9  | 876.7  | 875.3  | 874.1  |
| 127.5° | 965.0  | 963.2  | 961.4  | 959.8  | 958.4  | 956.9  | 955.5  | 953.9  |
| 130°   | 1019.4 | 1018.1 | 1016.9 | 1015.1 | 1013.0 | 1010.7 | 1008.5 | 1006.3 |
| 132.5° | 1072.3 | 1070.8 | 1069.3 | 1067.7 | 1066.0 | 1064.3 | 1062.5 | 1060.8 |
| 135°   | 1151.6 | 1150.3 | 1149.1 | 1148.1 | 1147.5 | 1146.8 | 1146.2 | 1145.6 |
| 137.5° | 1229.1 | 1227.8 | 1226.4 | 1225.1 | 1223.9 | 1222.8 | 1221.5 | 1220.3 |
| 140°   | 1280.0 | 1279.7 | 1279.3 | 1278.1 | 1275.8 | 1273.7 | 1271.4 | 1269.2 |
| 142.5° | 1327.8 | 1327.4 | 1327.1 | 1326.1 | 1324.4 | 1322.7 | 1321.0 | 1319.3 |
| 145°   | 1397.9 | 1397.6 | 1397.3 | 1396.5 | 1395.2 | 1394.0 | 1392.7 | 1391.5 |
| 147.5° | 1464.2 | 1464.2 | 1464.2 | 1463.3 | 1461.4 | 1459.5 | 1457.5 | 1455.7 |
| 150°   | 1505.1 | 1505.1 | 1505.1 | 1504.2 | 1502.3 | 1500.4 | 1498.5 | 1496.7 |
| 152.5° | 1542.6 | 1543.0 | 1543.6 | 1543.0 | 1541.3 | 1539.7 | 1538.0 | 1536.4 |
| 155°   | 1597.2 | 1598.5 | 1599.8 | 1599.3 | 1597.0 | 1594.9 | 1592.6 | 1590.4 |
| 157.5° | 1644.3 | 1645.6 | 1646.9 | 1646.7 | 1644.9 | 1643.1 | 1641.3 | 1639.6 |
| 160°   | 1673.2 | 1674.8 | 1676.3 | 1676.5 | 1675.3 | 1674.0 | 1672.7 | 1671.4 |
| 162.5° | 1700.4 | 1702.0 | 1703.6 | 1703.5 | 1701.4 | 1699.4 | 1697.3 | 1695.4 |
| 165°   | 1734.9 | 1736.8 | 1738.7 | 1738.6 | 1736.4 | 1734.2 | 1731.9 | 1729.8 |
| 167.5° | 1762.9 | 1764.9 | 1766.8 | 1766.8 | 1764.9 | 1762.9 | 1761.0 | 1759.0 |
| 170°   | 1778.2 | 1780.5 | 1782.6 | 1782.6 | 1780.5 | 1778.2 | 1776.0 | 1773.8 |
| 172.5° | 1790.2 | 1792.2 | 1794.1 | 1794.0 | 1791.8 | 1789.6 | 1787.3 | 1785.2 |
| 175°   | 1803.2 | 1805.1 | 1806.9 | 1806.8 | 1804.6 | 1802.3 | 1800.2 | 1798.0 |
| 177.5° | 1808.9 | 1810.4 | 1811.9 | 1811.8 | 1810.1 | 1808.3 | 1806.6 | 1804.8 |
| 180°   | 1809.3 | 1809.3 | 1809.3 | 1809.3 | 1809.3 | 1809.3 | 1809.3 | 1809.3 |

(END OF REPORT)