

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: P332179-940

Luminaire Tested: **S123DIW-S775D1535U940-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332179-940  
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-S775D1535U940-4F0-1E-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: 7573.3 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

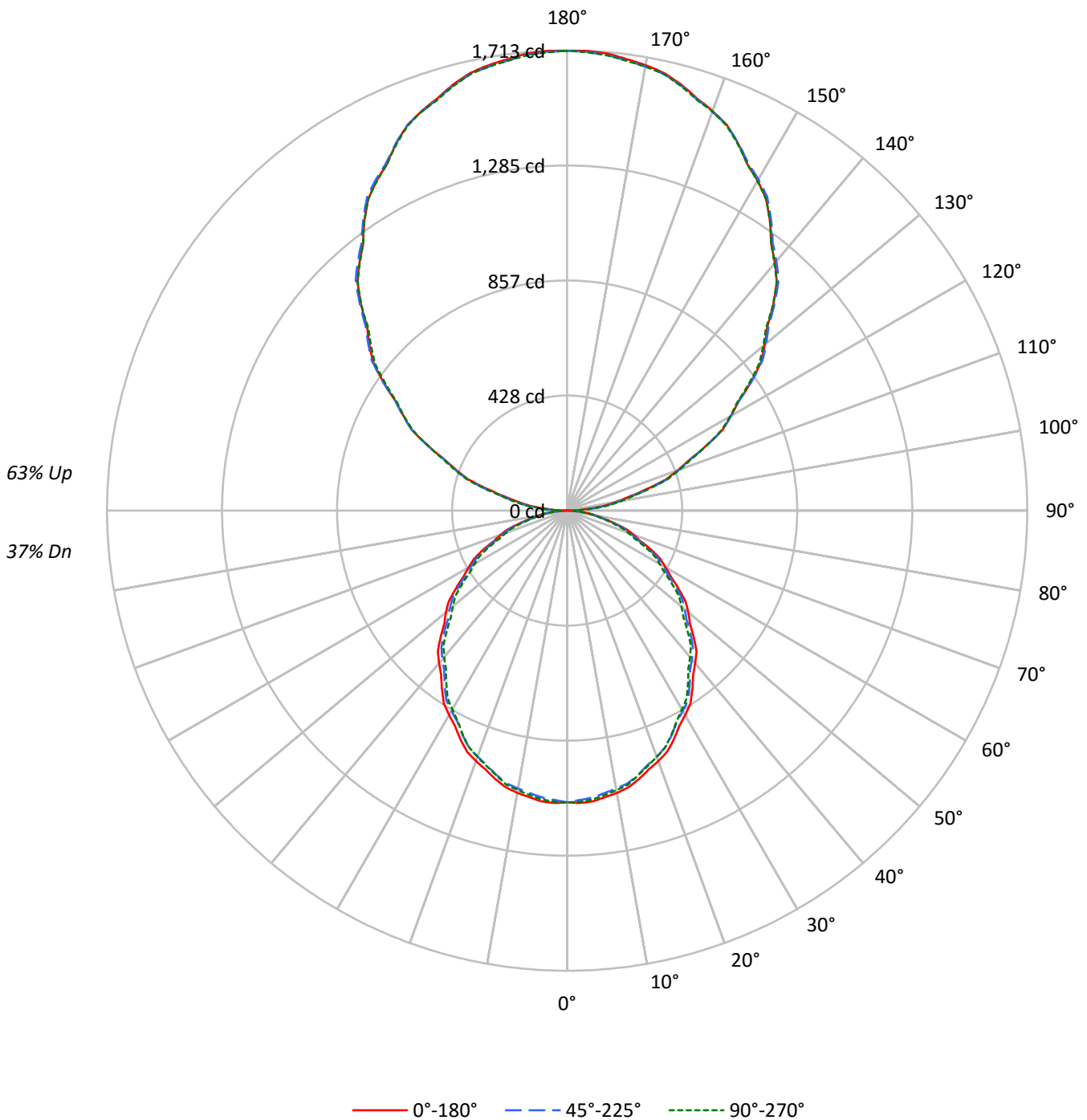
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 11689 | 11689 | 11689 |
| 5°  | 11743 | 11581 | 11662 |
| 10° | 11664 | 11481 | 11552 |
| 15° | 11529 | 11352 | 11373 |
| 20° | 11369 | 11165 | 11176 |
| 25° | 11156 | 10946 | 10923 |
| 30° | 10920 | 10700 | 10618 |
| 35° | 10674 | 10441 | 10306 |
| 40° | 10418 | 10153 | 9997  |
| 45° | 10135 | 9893  | 9651  |
| 50° | 9851  | 9568  | 9302  |
| 55° | 9481  | 9233  | 8955  |
| 60° | 9104  | 8844  | 8564  |
| 65° | 8777  | 8420  | 8155  |
| 70° | 8286  | 7934  | 7582  |
| 75° | 7573  | 7303  | 6991  |
| 80° | 6831  | 6540  | 6484  |
| 85° | 5990  | 5768  | 5545  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.3  | 1.4       |
| 10°-20°   | 288.8  | 3.8       |
| 20°-30°   | 426.6  | 5.6       |
| 30°-40°   | 498.4  | 6.6       |
| 40°-50°   | 501.0  | 6.6       |
| 50°-60°   | 440.1  | 5.8       |
| 60°-70°   | 327.9  | 4.3       |
| 70°-80°   | 186.8  | 2.5       |
| 80°-90°   | 58.7   | 0.8       |
| 90°-100°  | 111.5  | 1.5       |
| 100°-110° | 333.8  | 4.4       |
| 110°-120° | 567.7  | 7.5       |
| 120°-130° | 746.7  | 9.9       |
| 130°-140° | 839.3  | 11.1      |
| 140°-150° | 825.0  | 10.9      |
| 150°-160° | 694.5  | 9.2       |
| 160°-170° | 462.3  | 6.1       |
| 170°-180° | 161.9  | 2.1       |
| 0°-30°    | 817.7  | 10.8      |
| 0°-40°    | 1316.1 | 17.4      |
| 0°-60°    | 2257.3 | 29.8      |
| 0°-90°    | 2830.6 | 37.4      |
| 90°-120°  | 1013.0 | 13.4      |
| 90°-150°  | 3423.9 | 45.2      |
| 90°-180°  | 4743.0 | 62.6      |
| 0°-180°   | 7573.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1086 | 1086  | 1086 | 1086  | 1086 |      |
| 5°   | 1087 | 1082  | 1072 | 1081  | 1079 | 103  |
| 15°  | 1035 | 1030  | 1019 | 1025  | 1021 | 292  |
| 25°  | 939  | 933   | 922  | 922   | 920  | 432  |
| 35°  | 812  | 806   | 795  | 789   | 784  | 508  |
| 45°  | 666  | 662   | 650  | 639   | 634  | 514  |
| 55°  | 505  | 504   | 492  | 482   | 477  | 452  |
| 65°  | 345  | 340   | 331  | 323   | 320  | 340  |
| 75°  | 182  | 178   | 176  | 171   | 168  | 195  |
| 85°  | 48   | 47    | 47   | 45    | 45   | 53   |
| 90°  | 1    | 15    | 32   | 38    | 40   | 8    |
| 95°  | 79   | 89    | 100  | 105   | 105  | 89   |
| 105° | 303  | 306   | 317  | 318   | 320  | 324  |
| 115° | 572  | 575   | 573  | 574   | 573  | 565  |
| 125° | 836  | 840   | 838  | 832   | 827  | 746  |
| 135° | 1085 | 1093  | 1092 | 1087  | 1084 | 836  |
| 145° | 1316 | 1319  | 1323 | 1322  | 1316 | 822  |
| 155° | 1507 | 1507  | 1509 | 1513  | 1505 | 694  |
| 165° | 1642 | 1638  | 1638 | 1645  | 1636 | 463  |
| 175° | 1708 | 1703  | 1702 | 1709  | 1701 | 162  |
| 180° | 1712 | 1712  | 1712 | 1712  | 1712 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1085.9 | 1085.9 | 1085.9 | 1085.9 | 1085.9 | 1085.9 | 1085.9 | 1085.9 | 1085.9 | 1085.9 | 1085.9 |
| 2.5°   | 1089.6 | 1089.0 | 1088.3 | 1087.6 | 1087.0 | 1085.7 | 1083.9 | 1082.1 | 1080.2 | 1078.4 | 1080.0 |
| 5°     | 1086.8 | 1085.7 | 1084.8 | 1083.7 | 1082.6 | 1081.0 | 1078.7 | 1076.5 | 1074.2 | 1071.8 | 1074.0 |
| 7.5°   | 1076.2 | 1075.1 | 1074.1 | 1073.1 | 1072.0 | 1070.3 | 1067.9 | 1065.6 | 1063.2 | 1060.9 | 1062.7 |
| 10°    | 1067.2 | 1066.1 | 1065.1 | 1064.1 | 1063.1 | 1061.2 | 1058.5 | 1055.8 | 1053.1 | 1050.4 | 1052.3 |
| 12.5°  | 1055.3 | 1054.4 | 1053.6 | 1052.7 | 1051.8 | 1050.1 | 1047.6 | 1045.0 | 1042.5 | 1039.9 | 1041.3 |
| 15°    | 1034.6 | 1033.7 | 1032.9 | 1032.1 | 1031.2 | 1029.5 | 1026.7 | 1024.0 | 1021.4 | 1018.7 | 1020.3 |
| 17.5°  | 1010.4 | 1009.3 | 1008.3 | 1007.2 | 1006.1 | 1004.2 | 1001.6 | 998.8  | 996.1  | 993.5  | 994.6  |
| 20°    | 992.5  | 991.2  | 990.1  | 988.8  | 987.6  | 985.5  | 982.8  | 980.2  | 977.5  | 974.7  | 975.6  |
| 22.5°  | 972.3  | 971.1  | 969.8  | 968.6  | 967.3  | 965.4  | 962.7  | 960.0  | 957.3  | 954.6  | 955.3  |
| 25°    | 939.3  | 938.1  | 936.8  | 935.6  | 934.3  | 932.4  | 929.6  | 926.9  | 924.3  | 921.6  | 921.8  |
| 27.5°  | 904.0  | 902.8  | 901.6  | 900.4  | 899.2  | 897.2  | 894.2  | 891.4  | 888.4  | 885.5  | 885.6  |
| 30°    | 878.6  | 877.5  | 876.6  | 875.5  | 874.4  | 872.4  | 869.6  | 866.7  | 863.8  | 860.9  | 860.9  |
| 32.5°  | 853.2  | 851.9  | 850.4  | 849.1  | 847.7  | 846.0  | 843.6  | 841.4  | 839.2  | 837.0  | 835.8  |
| 35°    | 812.3  | 811.1  | 809.9  | 808.6  | 807.4  | 805.4  | 802.6  | 800.0  | 797.3  | 794.6  | 793.4  |
| 37.5°  | 770.4  | 768.9  | 767.3  | 765.7  | 764.2  | 762.1  | 759.3  | 756.5  | 753.8  | 751.1  | 749.6  |
| 40°    | 741.4  | 740.1  | 738.9  | 737.6  | 736.4  | 734.3  | 731.4  | 728.5  | 725.6  | 722.6  | 721.0  |
| 42.5°  | 712.2  | 710.8  | 709.4  | 708.0  | 706.6  | 704.5  | 701.5  | 698.6  | 695.7  | 692.8  | 691.2  |
| 45°    | 665.8  | 664.9  | 664.1  | 663.3  | 662.4  | 660.7  | 657.9  | 655.2  | 652.6  | 649.9  | 647.4  |
| 47.5°  | 619.6  | 618.4  | 617.2  | 616.0  | 614.7  | 612.9  | 610.4  | 607.9  | 605.3  | 602.8  | 600.3  |
| 50°    | 588.3  | 587.2  | 586.1  | 585.1  | 584.1  | 582.2  | 579.5  | 576.8  | 574.1  | 571.4  | 569.2  |
| 52.5°  | 555.4  | 554.6  | 553.9  | 553.2  | 552.5  | 550.7  | 547.9  | 545.0  | 542.2  | 539.3  | 537.3  |
| 55°    | 505.2  | 504.9  | 504.7  | 504.5  | 504.3  | 502.8  | 500.2  | 497.5  | 494.7  | 492.0  | 489.8  |
| 57.5°  | 457.4  | 456.6  | 455.9  | 455.2  | 454.5  | 453.1  | 450.9  | 448.7  | 446.6  | 444.4  | 442.4  |
| 60°    | 422.9  | 422.8  | 422.6  | 422.3  | 422.1  | 420.8  | 418.3  | 415.8  | 413.3  | 410.8  | 408.9  |
| 62.5°  | 392.4  | 391.8  | 391.3  | 390.7  | 390.2  | 388.7  | 386.2  | 383.7  | 381.2  | 378.7  | 376.8  |
| 65°    | 344.6  | 343.5  | 342.4  | 341.4  | 340.4  | 338.9  | 336.7  | 334.7  | 332.6  | 330.6  | 328.9  |
| 67.5°  | 293.9  | 293.0  | 292.1  | 291.1  | 290.3  | 289.0  | 287.5  | 285.9  | 284.3  | 282.8  | 281.2  |
| 70°    | 263.3  | 262.1  | 260.8  | 259.6  | 258.3  | 257.1  | 255.8  | 254.6  | 253.3  | 252.1  | 250.7  |
| 72.5°  | 231.2  | 230.2  | 229.3  | 228.5  | 227.6  | 226.4  | 225.0  | 223.6  | 222.1  | 220.7  | 219.5  |
| 75°    | 182.1  | 181.2  | 180.4  | 179.6  | 178.8  | 178.0  | 177.4  | 176.7  | 176.1  | 175.6  | 174.5  |
| 77.5°  | 138.6  | 138.1  | 137.7  | 137.2  | 136.7  | 136.2  | 135.4  | 134.6  | 133.9  | 133.1  | 132.4  |
| 80°    | 110.2  | 109.6  | 109.0  | 108.3  | 107.7  | 107.2  | 106.7  | 106.4  | 105.9  | 105.5  | 105.3  |
| 82.5°  | 82.6   | 82.4   | 82.3   | 82.1   | 82.0   | 81.9   | 81.9   | 81.8   | 81.7   | 81.6   | 81.2   |
| 85°    | 48.5   | 48.2   | 47.7   | 47.3   | 46.9   | 46.7   | 46.7   | 46.7   | 46.7   | 46.7   | 46.3   |
| 87.5°  | 19.7   | 19.8   | 19.9   | 20.0   | 20.1   | 20.4   | 21.0   | 21.7   | 22.3   | 22.9   | 22.9   |
| 90°    | 1.3    | 4.4    | 7.3    | 10.3   | 13.3   | 16.8   | 20.6   | 24.5   | 28.4   | 32.3   | 33.4   |
| 92.5°  | 32.5   | 34.6   | 36.6   | 38.6   | 40.7   | 42.8   | 45.0   | 47.2   | 49.4   | 51.6   | 52.6   |
| 95°    | 79.4   | 81.4   | 83.6   | 85.6   | 87.7   | 90.0   | 92.3   | 94.7   | 97.1   | 99.5   | 100.7  |
| 97.5°  | 140.9  | 142.5  | 144.0  | 145.6  | 147.1  | 148.7  | 150.5  | 152.2  | 154.0  | 155.7  | 157.1  |
| 100°   | 182.9  | 184.7  | 186.5  | 188.2  | 190.0  | 191.7  | 193.1  | 194.7  | 196.2  | 197.7  | 198.6  |
| 102.5° | 231.3  | 232.4  | 233.4  | 234.5  | 235.6  | 237.1  | 239.1  | 241.0  | 243.0  | 245.0  | 245.9  |
| 105°   | 302.6  | 303.2  | 303.7  | 304.3  | 305.0  | 306.6  | 309.2  | 311.9  | 314.7  | 317.4  | 317.4  |
| 107.5° | 385.4  | 385.8  | 386.1  | 386.5  | 386.8  | 387.5  | 388.6  | 389.7  | 390.7  | 391.8  | 392.8  |
| 110°   | 437.0  | 437.7  | 438.2  | 438.8  | 439.4  | 440.0  | 440.6  | 441.2  | 441.8  | 442.4  | 443.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 490.8  | 491.2  | 491.5  | 491.9  | 492.2  | 492.5  | 492.6  | 492.7  | 492.8  | 492.9  | 494.4  |
| 115°   | 571.5  | 572.4  | 573.3  | 574.2  | 575.1  | 575.2  | 574.6  | 574.0  | 573.5  | 572.8  | 573.1  |
| 117.5° | 652.7  | 653.3  | 653.9  | 654.5  | 655.1  | 655.0  | 654.2  | 653.4  | 652.6  | 651.9  | 651.8  |
| 120°   | 703.3  | 705.1  | 706.9  | 708.6  | 710.4  | 710.6  | 709.1  | 707.6  | 706.1  | 704.6  | 704.3  |
| 122.5° | 756.0  | 757.2  | 758.6  | 759.9  | 761.3  | 761.5  | 760.7  | 759.9  | 759.2  | 758.4  | 757.6  |
| 125°   | 836.3  | 837.2  | 838.2  | 839.1  | 840.0  | 840.1  | 839.5  | 838.9  | 838.3  | 837.8  | 836.5  |
| 127.5° | 910.6  | 912.5  | 914.4  | 916.3  | 918.3  | 918.9  | 918.2  | 917.6  | 916.9  | 916.2  | 914.5  |
| 130°   | 960.1  | 962.5  | 964.8  | 967.2  | 969.6  | 970.4  | 969.5  | 968.6  | 967.7  | 966.8  | 965.6  |
| 132.5° | 1009.6 | 1011.9 | 1014.3 | 1016.7 | 1019.1 | 1020.0 | 1019.3 | 1018.7 | 1018.0 | 1017.4 | 1015.9 |
| 135°   | 1085.1 | 1086.9 | 1088.7 | 1090.5 | 1092.3 | 1093.1 | 1092.8 | 1092.4 | 1092.2 | 1091.9 | 1090.7 |
| 137.5° | 1155.0 | 1156.5 | 1158.1 | 1159.6 | 1161.0 | 1162.2 | 1163.0 | 1163.7 | 1164.5 | 1165.3 | 1164.0 |
| 140°   | 1203.5 | 1205.0 | 1206.5 | 1207.9 | 1209.4 | 1210.3 | 1210.7 | 1210.9 | 1211.2 | 1211.6 | 1211.2 |
| 142.5° | 1247.6 | 1249.0 | 1250.5 | 1252.1 | 1253.6 | 1254.5 | 1255.1 | 1255.6 | 1256.2 | 1256.7 | 1256.4 |
| 145°   | 1316.4 | 1317.1 | 1317.6 | 1318.2 | 1318.8 | 1319.6 | 1320.4 | 1321.3 | 1322.2 | 1323.1 | 1322.9 |
| 147.5° | 1376.6 | 1377.7 | 1378.8 | 1379.9 | 1381.0 | 1381.9 | 1382.8 | 1383.6 | 1384.4 | 1385.3 | 1385.3 |
| 150°   | 1418.6 | 1419.2 | 1419.8 | 1420.4 | 1421.0 | 1421.6 | 1422.2 | 1422.8 | 1423.3 | 1424.0 | 1424.0 |
| 152.5° | 1453.0 | 1453.8 | 1454.7 | 1455.5 | 1456.3 | 1457.0 | 1457.3 | 1457.7 | 1458.0 | 1458.4 | 1458.9 |
| 155°   | 1507.3 | 1507.3 | 1507.3 | 1507.3 | 1507.3 | 1507.5 | 1507.8 | 1508.1 | 1508.4 | 1508.7 | 1509.9 |
| 157.5° | 1553.6 | 1553.3 | 1552.9 | 1552.6 | 1552.2 | 1552.1 | 1552.4 | 1552.6 | 1552.8 | 1553.1 | 1554.3 |
| 160°   | 1582.7 | 1582.1 | 1581.4 | 1580.8 | 1580.3 | 1579.9 | 1579.9 | 1579.9 | 1579.9 | 1579.9 | 1581.4 |
| 162.5° | 1608.5 | 1607.7 | 1606.8 | 1606.0 | 1605.2 | 1604.8 | 1605.1 | 1605.3 | 1605.5 | 1605.8 | 1607.3 |
| 165°   | 1641.8 | 1640.9 | 1640.0 | 1639.1 | 1638.3 | 1637.8 | 1637.8 | 1637.8 | 1637.8 | 1637.8 | 1639.6 |
| 167.5° | 1668.5 | 1667.2 | 1666.1 | 1664.8 | 1663.7 | 1663.2 | 1663.4 | 1663.7 | 1663.9 | 1664.1 | 1666.0 |
| 170°   | 1683.5 | 1682.3 | 1681.1 | 1679.9 | 1678.7 | 1678.1 | 1678.1 | 1678.1 | 1678.1 | 1678.1 | 1680.3 |
| 172.5° | 1695.3 | 1694.2 | 1692.9 | 1691.8 | 1690.6 | 1690.0 | 1690.0 | 1690.0 | 1690.0 | 1690.0 | 1691.8 |
| 175°   | 1707.7 | 1706.6 | 1705.3 | 1704.1 | 1702.9 | 1702.4 | 1702.4 | 1702.4 | 1702.4 | 1702.4 | 1704.1 |
| 177.5° | 1712.8 | 1711.9 | 1710.9 | 1709.9 | 1709.0 | 1708.5 | 1708.5 | 1708.5 | 1708.5 | 1708.5 | 1709.9 |
| 180°   | 1711.7 | 1711.7 | 1711.7 | 1711.7 | 1711.7 | 1711.7 | 1711.7 | 1711.7 | 1711.7 | 1711.7 | 1711.7 |



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CATALOG NUMBER: S123DIW-S775D1535U940-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1085.9 | 1085.9 | 1085.9 | 1085.9 | 1085.9 | 1085.9 | 1085.9 | 1085.9 |
| 2.5°   | 1081.7 | 1083.4 | 1085.0 | 1085.8 | 1085.7 | 1085.5 | 1085.3 | 1085.1 |
| 5°     | 1076.0 | 1078.1 | 1080.2 | 1081.0 | 1080.6 | 1080.2 | 1079.8 | 1079.3 |
| 7.5°   | 1064.6 | 1066.5 | 1068.4 | 1069.2 | 1068.9 | 1068.6 | 1068.4 | 1068.2 |
| 10°    | 1054.2 | 1056.0 | 1057.8 | 1058.6 | 1058.2 | 1057.7 | 1057.4 | 1056.9 |
| 12.5°  | 1042.7 | 1044.0 | 1045.4 | 1046.0 | 1045.7 | 1045.4 | 1045.3 | 1045.0 |
| 15°    | 1022.0 | 1023.6 | 1025.3 | 1025.5 | 1024.2 | 1023.0 | 1021.8 | 1020.6 |
| 17.5°  | 995.8  | 996.9  | 998.1  | 998.4  | 998.0  | 997.6  | 997.1  | 996.7  |
| 20°    | 976.4  | 977.2  | 978.1  | 978.2  | 977.6  | 977.0  | 976.3  | 975.7  |
| 22.5°  | 955.9  | 956.6  | 957.3  | 957.2  | 956.4  | 955.6  | 954.8  | 954.0  |
| 25°    | 921.9  | 922.2  | 922.4  | 922.2  | 921.6  | 921.0  | 920.3  | 919.7  |
| 27.5°  | 885.8  | 886.0  | 886.2  | 885.8  | 885.1  | 884.3  | 883.5  | 882.7  |
| 30°    | 860.9  | 860.9  | 860.9  | 860.1  | 858.7  | 857.2  | 855.8  | 854.3  |
| 32.5°  | 834.6  | 833.5  | 832.3  | 831.3  | 830.5  | 829.7  | 828.9  | 828.2  |
| 35°    | 792.1  | 790.9  | 789.6  | 788.5  | 787.4  | 786.4  | 785.3  | 784.3  |
| 37.5°  | 748.1  | 746.5  | 745.1  | 744.0  | 743.3  | 742.7  | 742.0  | 741.4  |
| 40°    | 719.3  | 717.7  | 716.0  | 714.8  | 714.0  | 713.1  | 712.3  | 711.5  |
| 42.5°  | 689.5  | 687.8  | 686.2  | 684.9  | 684.1  | 683.2  | 682.4  | 681.6  |
| 45°    | 644.9  | 642.4  | 639.9  | 638.1  | 637.1  | 636.1  | 635.0  | 634.0  |
| 47.5°  | 597.9  | 595.5  | 593.0  | 591.3  | 590.4  | 589.5  | 588.6  | 587.6  |
| 50°    | 566.9  | 564.5  | 562.3  | 560.5  | 559.3  | 558.0  | 556.8  | 555.5  |
| 52.5°  | 535.4  | 533.4  | 531.5  | 529.9  | 528.7  | 527.4  | 526.2  | 525.0  |
| 55°    | 487.5  | 485.2  | 483.0  | 481.3  | 480.2  | 479.2  | 478.1  | 477.2  |
| 57.5°  | 440.3  | 438.4  | 436.3  | 434.7  | 433.5  | 432.3  | 431.1  | 429.9  |
| 60°    | 407.1  | 405.2  | 403.3  | 401.9  | 400.8  | 399.8  | 398.8  | 397.8  |
| 62.5°  | 375.0  | 373.1  | 371.2  | 370.0  | 369.3  | 368.5  | 367.8  | 367.1  |
| 65°    | 327.2  | 325.6  | 323.9  | 322.7  | 322.1  | 321.5  | 320.8  | 320.2  |
| 67.5°  | 279.8  | 278.4  | 276.9  | 275.7  | 274.9  | 274.0  | 273.1  | 272.2  |
| 70°    | 249.2  | 247.7  | 246.3  | 245.0  | 244.0  | 243.0  | 241.9  | 240.9  |
| 72.5°  | 218.1  | 216.9  | 215.6  | 214.6  | 214.1  | 213.6  | 213.0  | 212.5  |
| 75°    | 173.4  | 172.5  | 171.4  | 170.6  | 170.0  | 169.3  | 168.7  | 168.1  |
| 77.5°  | 131.7  | 131.0  | 130.3  | 130.0  | 130.0  | 130.0  | 130.0  | 130.0  |
| 80°    | 105.1  | 104.9  | 104.7  | 104.6  | 104.6  | 104.6  | 104.6  | 104.6  |
| 82.5°  | 80.9   | 80.5   | 80.1   | 79.8   | 79.7   | 79.5   | 79.4   | 79.2   |
| 85°    | 45.8   | 45.5   | 45.0   | 44.9   | 44.9   | 44.9   | 44.9   | 44.9   |
| 87.5°  | 23.0   | 23.1   | 23.2   | 23.3   | 23.4   | 23.5   | 23.6   | 23.7   |
| 90°    | 34.7   | 35.8   | 37.1   | 38.0   | 38.5   | 39.1   | 39.8   | 40.3   |
| 92.5°  | 53.5   | 54.5   | 55.5   | 55.7   | 55.4   | 55.0   | 54.7   | 54.3   |
| 95°    | 101.9  | 103.1  | 104.2  | 104.9  | 104.9  | 104.9  | 104.9  | 104.9  |
| 97.5°  | 158.5  | 159.8  | 161.2  | 161.8  | 161.8  | 161.6  | 161.5  | 161.4  |
| 100°   | 199.5  | 200.4  | 201.3  | 202.0  | 202.6  | 203.2  | 203.8  | 204.4  |
| 102.5° | 246.8  | 247.7  | 248.6  | 249.0  | 248.9  | 248.7  | 248.6  | 248.5  |
| 105°   | 317.4  | 317.4  | 317.4  | 317.6  | 318.3  | 318.9  | 319.4  | 320.0  |
| 107.5° | 393.8  | 394.7  | 395.7  | 395.9  | 395.6  | 395.2  | 394.8  | 394.5  |
| 110°   | 444.8  | 445.9  | 447.2  | 447.5  | 446.8  | 446.3  | 445.7  | 445.1  |





TEST NUMBER: P332179-940

CATALOG NUMBER: S123DIW-S775D1535U940-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 495.8  | 497.2  | 498.6  | 499.4  | 499.3  | 499.1  | 499.0  | 498.8  |
| 115°   | 573.5  | 573.7  | 574.0  | 574.0  | 573.7  | 573.5  | 573.1  | 572.8  |
| 117.5° | 651.8  | 651.8  | 651.7  | 651.2  | 650.3  | 649.5  | 648.7  | 647.8  |
| 120°   | 704.0  | 703.7  | 703.4  | 702.9  | 702.4  | 701.8  | 701.2  | 700.5  |
| 122.5° | 756.8  | 756.1  | 755.3  | 754.5  | 753.7  | 752.8  | 752.0  | 751.1  |
| 125°   | 835.4  | 834.1  | 832.9  | 831.7  | 830.5  | 829.4  | 828.1  | 827.0  |
| 127.5° | 912.9  | 911.2  | 909.5  | 908.0  | 906.7  | 905.3  | 903.9  | 902.5  |
| 130°   | 964.4  | 963.2  | 962.1  | 960.4  | 958.3  | 956.2  | 954.1  | 952.0  |
| 132.5° | 1014.5 | 1013.1 | 1011.6 | 1010.1 | 1008.5 | 1006.9 | 1005.2 | 1003.6 |
| 135°   | 1089.5 | 1088.2 | 1087.1 | 1086.2 | 1085.6 | 1084.9 | 1084.4 | 1083.8 |
| 137.5° | 1162.8 | 1161.5 | 1160.3 | 1159.0 | 1157.9 | 1156.8 | 1155.7 | 1154.5 |
| 140°   | 1210.9 | 1210.7 | 1210.3 | 1209.2 | 1207.0 | 1205.0 | 1202.8 | 1200.8 |
| 142.5° | 1256.2 | 1255.8 | 1255.5 | 1254.5 | 1252.9 | 1251.3 | 1249.7 | 1248.1 |
| 145°   | 1322.5 | 1322.2 | 1322.0 | 1321.2 | 1320.0 | 1318.8 | 1317.6 | 1316.4 |
| 147.5° | 1385.3 | 1385.3 | 1385.3 | 1384.4 | 1382.6 | 1380.8 | 1378.9 | 1377.2 |
| 150°   | 1424.0 | 1424.0 | 1424.0 | 1423.1 | 1421.3 | 1419.5 | 1417.7 | 1415.9 |
| 152.5° | 1459.4 | 1459.8 | 1460.4 | 1459.8 | 1458.2 | 1456.7 | 1455.1 | 1453.6 |
| 155°   | 1511.1 | 1512.3 | 1513.5 | 1513.1 | 1510.9 | 1508.9 | 1506.7 | 1504.7 |
| 157.5° | 1555.6 | 1556.8 | 1558.1 | 1557.9 | 1556.2 | 1554.5 | 1552.8 | 1551.2 |
| 160°   | 1583.0 | 1584.5 | 1585.9 | 1586.1 | 1584.9 | 1583.7 | 1582.5 | 1581.3 |
| 162.5° | 1608.7 | 1610.3 | 1611.8 | 1611.6 | 1609.6 | 1607.8 | 1605.8 | 1603.9 |
| 165°   | 1641.4 | 1643.2 | 1644.9 | 1644.8 | 1642.7 | 1640.7 | 1638.5 | 1636.5 |
| 167.5° | 1667.9 | 1669.7 | 1671.5 | 1671.5 | 1669.7 | 1667.9 | 1666.0 | 1664.1 |
| 170°   | 1682.3 | 1684.4 | 1686.5 | 1686.5 | 1684.4 | 1682.3 | 1680.3 | 1678.1 |
| 172.5° | 1693.6 | 1695.5 | 1697.4 | 1697.3 | 1695.1 | 1693.1 | 1691.0 | 1688.9 |
| 175°   | 1705.9 | 1707.7 | 1709.5 | 1709.3 | 1707.3 | 1705.1 | 1703.1 | 1701.0 |
| 177.5° | 1711.4 | 1712.8 | 1714.2 | 1714.1 | 1712.4 | 1710.7 | 1709.1 | 1707.4 |
| 180°   | 1711.7 | 1711.7 | 1711.7 | 1711.7 | 1711.7 | 1711.7 | 1711.7 | 1711.7 |

(END OF REPORT)