

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: CORELITE

Report Number: P303173

Luminaire Tested: **CTW-F-5050-50L930-UNV-STD-6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTW-F-5050-50L930-UNV-STD-6  
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE  
50% UPLIGHT, 50% DOWNLIGHT, 5000 LUMEN PACKAGE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

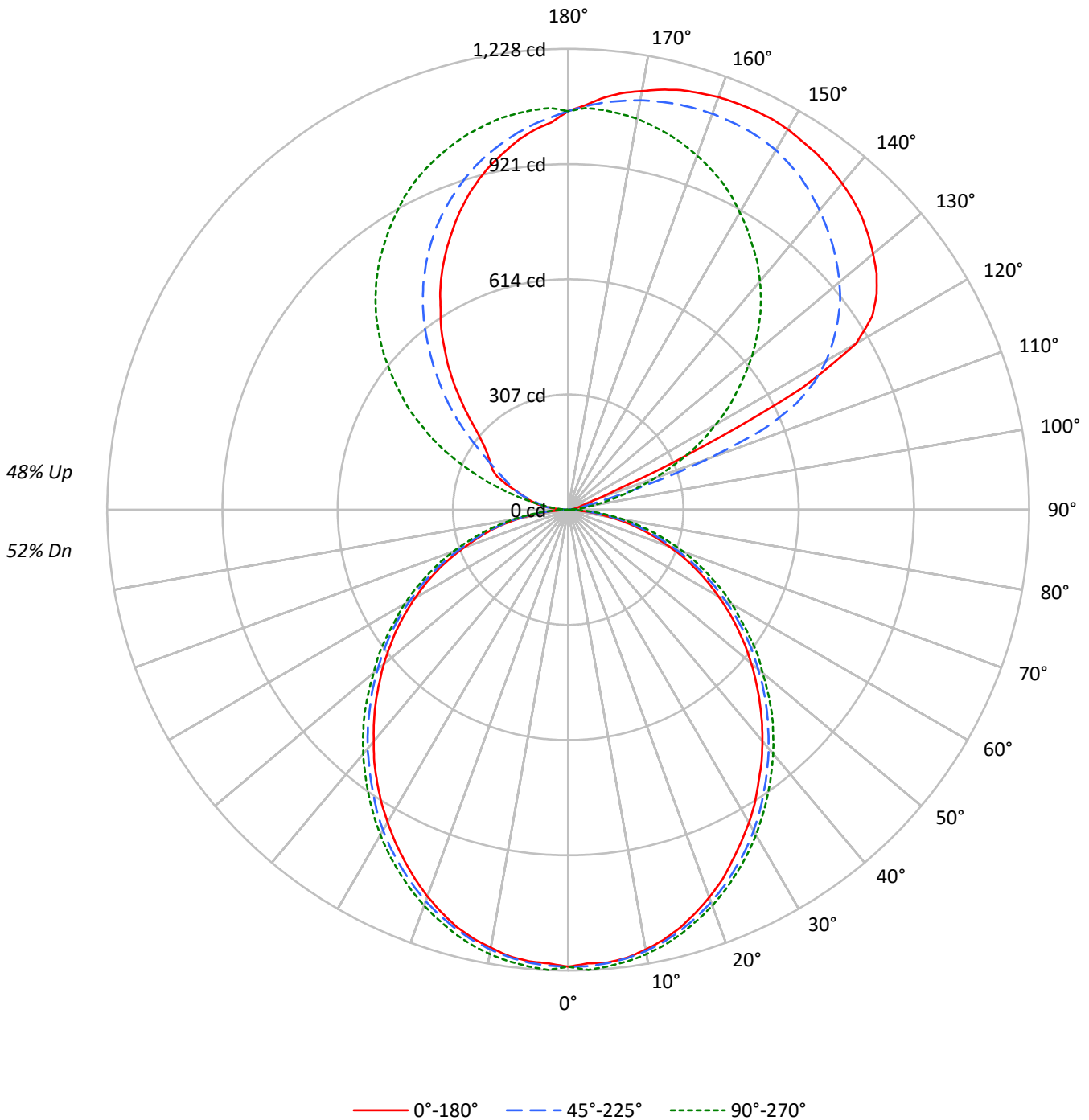
Lumens per Lamp: N/A  
Luminaire Lumens: 6265.2 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32  
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 58.5  
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



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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   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 84 | 84 | 84 | 71 | 71 | 71 | 58 | 58 | 58 | 52 |
| 1   | 98  | 94  | 90  | 86  | 91  | 87  | 83  | 80  | 74 | 71 | 69 | 62 | 60 | 59 | 51 | 50 | 49 | 44 |
| 2   | 89  | 82  | 75  | 70  | 82  | 76  | 70  | 66  | 65 | 61 | 57 | 54 | 51 | 49 | 45 | 43 | 41 | 36 |
| 3   | 81  | 72  | 64  | 58  | 75  | 67  | 60  | 55  | 57 | 52 | 48 | 48 | 44 | 41 | 40 | 37 | 35 | 31 |
| 4   | 74  | 63  | 55  | 49  | 68  | 59  | 52  | 46  | 50 | 45 | 41 | 43 | 39 | 35 | 35 | 32 | 30 | 26 |
| 5   | 68  | 56  | 48  | 42  | 63  | 53  | 45  | 40  | 45 | 39 | 35 | 38 | 34 | 30 | 32 | 29 | 26 | 23 |
| 6   | 63  | 51  | 42  | 37  | 58  | 47  | 40  | 35  | 41 | 35 | 31 | 35 | 30 | 27 | 29 | 25 | 23 | 20 |
| 7   | 58  | 46  | 38  | 32  | 54  | 43  | 35  | 30  | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 | 18 |
| 8   | 54  | 41  | 34  | 28  | 50  | 39  | 32  | 27  | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 16 |
| 9   | 50  | 38  | 30  | 25  | 46  | 35  | 29  | 24  | 31 | 25 | 21 | 26 | 22 | 19 | 22 | 19 | 16 | 14 |
| 10  | 47  | 35  | 27  | 23  | 43  | 33  | 26  | 21  | 28 | 23 | 19 | 24 | 20 | 17 | 21 | 17 | 15 | 13 |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 17476 | 17476 | 17476 |
| 5°  | 17452 | 17596 | 17399 |
| 10° | 17345 | 17527 | 17272 |
| 15° | 17128 | 17369 | 17091 |
| 20° | 16787 | 17148 | 16748 |
| 25° | 16358 | 16871 | 16339 |
| 30° | 15961 | 16582 | 15941 |
| 35° | 15497 | 16241 | 15541 |
| 40° | 15076 | 15917 | 15099 |
| 45° | 14636 | 15574 | 14713 |
| 50° | 14207 | 15098 | 14319 |
| 55° | 13767 | 14765 | 13955 |
| 60° | 13287 | 14467 | 13537 |
| 65° | 12752 | 14066 | 13091 |
| 70° | 11989 | 13663 | 12408 |
| 75° | 11068 | 13075 | 11900 |
| 80° | 9488  | 12166 | 10720 |
| 85° | 5961  | 10687 | 7805  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 115.0  | 1.8       |
| 10°-20°   | 325.6  | 5.2       |
| 20°-30°   | 482.0  | 7.7       |
| 30°-40°   | 566.1  | 9.0       |
| 40°-50°   | 574.0  | 9.2       |
| 50°-60°   | 512.0  | 8.2       |
| 60°-70°   | 392.4  | 6.3       |
| 70°-80°   | 231.0  | 3.7       |
| 80°-90°   | 62.3   | 1.0       |
| 90°-100°  | 30.2   | 0.5       |
| 100°-110° | 130.4  | 2.1       |
| 110°-120° | 365.5  | 5.8       |
| 120°-130° | 528.4  | 8.4       |
| 130°-140° | 570.4  | 9.1       |
| 140°-150° | 542.5  | 8.7       |
| 150°-160° | 445.3  | 7.1       |
| 160°-170° | 291.1  | 4.6       |
| 170°-180° | 100.9  | 1.6       |
| 0°-30°    | 922.6  | 14.7      |
| 0°-40°    | 1488.7 | 23.8      |
| 0°-60°    | 2574.7 | 41.1      |
| 0°-90°    | 3260.5 | 52.0      |
| 90°-120°  | 526.2  | 8.4       |
| 90°-150°  | 2167.6 | 34.6      |
| 90°-180°  | 3005.0 | 48.0      |
| 0°-180°   | 6265.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1218 | 1218 | 1218 | 1218 | 1218 |      |
| 5°   | 1211 | 1213 | 1221 | 1211 | 1208 | 115  |
| 15°  | 1153 | 1160 | 1169 | 1156 | 1150 | 325  |
| 25°  | 1033 | 1054 | 1065 | 1052 | 1032 | 476  |
| 35°  | 884  | 911  | 927  | 910  | 887  | 554  |
| 45°  | 721  | 747  | 767  | 747  | 725  | 557  |
| 55°  | 550  | 574  | 590  | 578  | 558  | 492  |
| 65°  | 376  | 393  | 414  | 399  | 386  | 371  |
| 75°  | 200  | 213  | 236  | 220  | 215  | 211  |
| 85°  | 36   | 47   | 65   | 54   | 47   | 46   |
| 90°  | 1    | 1    | 1    | 6    | 9    | 2    |
| 95°  | 8    | 9    | 22   | 41   | 37   | 8    |
| 105° | 32   | 95   | 147  | 102  | 115  | 38   |
| 115° | 378  | 671  | 353  | 183  | 208  | 418  |
| 125° | 1003 | 877  | 548  | 303  | 263  | 890  |
| 135° | 1105 | 997  | 722  | 489  | 398  | 853  |
| 145° | 1156 | 1080 | 857  | 675  | 590  | 725  |
| 155° | 1174 | 1119 | 966  | 831  | 766  | 543  |
| 165° | 1158 | 1119 | 1036 | 949  | 913  | 328  |
| 175° | 1103 | 1089 | 1069 | 1032 | 1017 | 106  |
| 180° | 1062 | 1062 | 1062 | 1062 | 1062 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 |
| 2.5°   | 1210.2 | 1208.9 | 1212.7 | 1215.2 | 1215.2 | 1216.4 | 1218.9 | 1220.1 | 1218.9 | 1223.9 | 1217.7 |
| 5°     | 1211.4 | 1208.9 | 1210.2 | 1210.2 | 1208.9 | 1210.2 | 1212.7 | 1213.9 | 1213.9 | 1218.9 | 1212.7 |
| 7.5°   | 1203.9 | 1202.7 | 1203.9 | 1202.7 | 1201.4 | 1202.7 | 1203.9 | 1206.4 | 1205.2 | 1210.2 | 1205.2 |
| 10°    | 1190.2 | 1189.0 | 1189.0 | 1189.0 | 1187.7 | 1189.0 | 1191.5 | 1193.9 | 1193.9 | 1197.7 | 1193.9 |
| 12.5°  | 1174.0 | 1171.5 | 1172.7 | 1174.0 | 1171.5 | 1172.7 | 1175.2 | 1177.7 | 1177.7 | 1182.7 | 1179.0 |
| 15°    | 1152.8 | 1151.5 | 1154.0 | 1156.5 | 1154.0 | 1154.0 | 1156.5 | 1157.8 | 1159.0 | 1162.8 | 1160.3 |
| 17.5°  | 1126.6 | 1126.6 | 1129.1 | 1132.8 | 1130.3 | 1130.3 | 1132.8 | 1135.3 | 1135.3 | 1137.8 | 1137.8 |
| 20°    | 1099.1 | 1097.9 | 1100.4 | 1102.9 | 1102.9 | 1101.6 | 1105.4 | 1107.9 | 1109.1 | 1111.6 | 1112.9 |
| 22.5°  | 1069.2 | 1066.7 | 1067.9 | 1071.7 | 1070.4 | 1070.4 | 1071.7 | 1076.7 | 1079.2 | 1081.7 | 1085.4 |
| 25°    | 1033.0 | 1033.0 | 1035.5 | 1038.0 | 1038.0 | 1038.0 | 1039.2 | 1043.0 | 1046.7 | 1050.5 | 1054.2 |
| 27.5°  | 998.1  | 998.1  | 999.3  | 1004.3 | 1004.3 | 1003.1 | 1005.6 | 1011.8 | 1015.5 | 1018.0 | 1023.0 |
| 30°    | 963.1  | 959.4  | 963.1  | 966.9  | 969.4  | 966.9  | 970.6  | 975.6  | 978.1  | 981.9  | 988.1  |
| 32.5°  | 925.7  | 924.5  | 924.5  | 929.5  | 932.0  | 930.7  | 932.0  | 938.2  | 943.2  | 944.4  | 950.7  |
| 35°    | 884.5  | 885.8  | 885.8  | 889.5  | 892.0  | 890.8  | 892.0  | 898.3  | 903.3  | 904.5  | 910.7  |
| 37.5°  | 845.9  | 845.9  | 845.9  | 849.6  | 852.1  | 852.1  | 852.1  | 858.3  | 863.3  | 867.1  | 870.8  |
| 40°    | 804.7  | 805.9  | 804.7  | 808.4  | 812.2  | 810.9  | 812.2  | 817.2  | 823.4  | 827.2  | 830.9  |
| 42.5°  | 763.5  | 762.3  | 762.3  | 766.0  | 771.0  | 769.8  | 771.0  | 776.0  | 781.0  | 786.0  | 788.5  |
| 45°    | 721.1  | 718.6  | 721.1  | 724.9  | 728.6  | 729.8  | 728.6  | 733.6  | 738.6  | 742.3  | 747.3  |
| 47.5°  | 678.7  | 677.4  | 677.4  | 681.2  | 684.9  | 684.9  | 686.2  | 689.9  | 696.2  | 698.7  | 704.9  |
| 50°    | 636.3  | 636.3  | 635.0  | 638.8  | 642.5  | 643.8  | 643.8  | 646.3  | 652.5  | 657.5  | 660.0  |
| 52.5°  | 593.9  | 593.9  | 593.9  | 595.1  | 597.6  | 601.3  | 601.3  | 603.8  | 607.6  | 613.8  | 617.6  |
| 55°    | 550.2  | 551.4  | 550.2  | 551.4  | 555.2  | 557.7  | 557.7  | 560.2  | 563.9  | 570.2  | 573.9  |
| 57.5°  | 506.5  | 507.8  | 506.5  | 507.8  | 511.5  | 512.8  | 514.0  | 516.5  | 519.0  | 524.0  | 527.7  |
| 60°    | 462.9  | 464.1  | 462.9  | 464.1  | 467.8  | 470.3  | 469.1  | 472.8  | 475.3  | 477.8  | 482.8  |
| 62.5°  | 419.2  | 421.7  | 420.4  | 422.9  | 424.2  | 426.7  | 425.4  | 429.2  | 431.7  | 434.2  | 439.2  |
| 65°    | 375.5  | 378.0  | 376.8  | 379.3  | 379.3  | 381.8  | 380.5  | 384.3  | 386.8  | 389.2  | 393.0  |
| 67.5°  | 331.9  | 334.4  | 333.1  | 334.4  | 335.6  | 338.1  | 335.6  | 340.6  | 343.1  | 344.3  | 348.1  |
| 70°    | 285.7  | 288.2  | 286.9  | 288.2  | 289.4  | 290.7  | 289.4  | 293.2  | 296.9  | 298.2  | 300.7  |
| 72.5°  | 242.0  | 244.5  | 244.5  | 245.8  | 245.8  | 248.3  | 248.3  | 248.3  | 250.8  | 254.5  | 255.8  |
| 75°    | 199.6  | 202.1  | 202.1  | 202.1  | 202.1  | 204.6  | 204.6  | 207.1  | 208.3  | 210.8  | 213.3  |
| 77.5°  | 157.2  | 159.7  | 159.7  | 159.7  | 159.7  | 162.2  | 162.2  | 164.7  | 165.9  | 168.4  | 170.9  |
| 80°    | 114.8  | 117.3  | 118.5  | 118.5  | 118.5  | 119.8  | 119.8  | 122.3  | 123.5  | 126.0  | 128.5  |
| 82.5°  | 74.9   | 76.1   | 77.4   | 76.1   | 77.4   | 78.6   | 81.1   | 81.1   | 82.3   | 84.8   | 87.3   |
| 85°    | 36.2   | 37.4   | 38.7   | 38.7   | 38.7   | 39.9   | 39.9   | 42.4   | 43.7   | 44.9   | 47.4   |
| 87.5°  | 5.0    | 6.2    | 6.2    | 6.2    | 6.2    | 7.5    | 7.5    | 7.5    | 8.7    | 8.7    | 11.2   |
| 90°    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 92.5°  | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 95°    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 8.7    |
| 97.5°  | 11.2   | 11.2   | 12.5   | 11.2   | 12.5   | 12.5   | 12.5   | 12.5   | 13.7   | 13.7   | 16.2   |
| 100°   | 17.5   | 17.5   | 17.5   | 17.5   | 17.5   | 17.5   | 18.7   | 18.7   | 21.2   | 22.5   | 26.2   |
| 102.5° | 23.7   | 23.7   | 23.7   | 25.0   | 25.0   | 26.2   | 26.2   | 27.4   | 31.2   | 36.2   | 47.4   |
| 105°   | 32.4   | 32.4   | 33.7   | 33.7   | 34.9   | 36.2   | 37.4   | 42.4   | 49.9   | 64.9   | 94.8   |
| 107.5° | 44.9   | 46.2   | 47.4   | 48.7   | 52.4   | 56.1   | 59.9   | 73.6   | 96.1   | 142.2  | 212.1  |
| 110°   | 71.1   | 72.4   | 77.4   | 82.3   | 94.8   | 107.3  | 119.8  | 165.9  | 233.3  | 318.1  | 395.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 148.5  | 153.5  | 157.2  | 187.1  | 227.1  | 262.0  | 294.4  | 376.8  | 465.4  | 537.7  | 567.7  |
| 115°   | 378.0  | 386.8  | 393.0  | 451.6  | 514.0  | 553.9  | 578.9  | 635.0  | 671.2  | 682.4  | 671.2  |
| 117.5° | 702.4  | 706.1  | 714.9  | 736.1  | 764.8  | 778.5  | 781.0  | 789.7  | 781.0  | 763.5  | 741.1  |
| 120°   | 885.8  | 885.8  | 880.8  | 882.1  | 878.3  | 878.3  | 873.3  | 859.6  | 840.9  | 819.7  | 793.5  |
| 122.5° | 960.6  | 956.9  | 950.7  | 945.7  | 934.4  | 932.0  | 924.5  | 907.0  | 887.0  | 865.8  | 837.1  |
| 125°   | 1003.1 | 999.3  | 994.3  | 988.1  | 975.6  | 970.6  | 963.1  | 945.7  | 925.7  | 903.3  | 877.1  |
| 127.5° | 1035.5 | 1031.8 | 1026.8 | 1020.5 | 1009.3 | 1004.3 | 995.6  | 978.1  | 958.2  | 936.9  | 913.2  |
| 130°   | 1060.5 | 1059.2 | 1053.0 | 1049.2 | 1038.0 | 1033.0 | 1024.3 | 1006.8 | 988.1  | 966.9  | 943.2  |
| 132.5° | 1084.2 | 1081.7 | 1075.4 | 1072.9 | 1063.0 | 1056.7 | 1049.2 | 1033.0 | 1014.3 | 993.1  | 970.6  |
| 135°   | 1105.4 | 1102.9 | 1095.4 | 1092.9 | 1084.2 | 1076.7 | 1070.4 | 1055.5 | 1039.2 | 1018.0 | 996.8  |
| 137.5° | 1121.6 | 1117.8 | 1112.9 | 1110.4 | 1101.6 | 1094.1 | 1089.2 | 1075.4 | 1059.2 | 1039.2 | 1019.3 |
| 140°   | 1135.3 | 1131.6 | 1127.8 | 1125.3 | 1117.8 | 1111.6 | 1105.4 | 1091.6 | 1077.9 | 1061.7 | 1041.7 |
| 142.5° | 1146.5 | 1144.0 | 1140.3 | 1136.6 | 1129.1 | 1124.1 | 1119.1 | 1107.9 | 1095.4 | 1079.2 | 1061.7 |
| 145°   | 1156.5 | 1154.0 | 1150.3 | 1147.8 | 1139.1 | 1135.3 | 1130.3 | 1120.3 | 1109.1 | 1092.9 | 1080.4 |
| 147.5° | 1162.8 | 1161.5 | 1159.0 | 1156.5 | 1147.8 | 1144.0 | 1139.1 | 1131.6 | 1120.3 | 1105.4 | 1094.1 |
| 150°   | 1170.2 | 1167.7 | 1165.3 | 1164.0 | 1155.3 | 1151.5 | 1149.0 | 1140.3 | 1130.3 | 1116.6 | 1106.6 |
| 152.5° | 1174.0 | 1171.5 | 1169.0 | 1167.7 | 1159.0 | 1156.5 | 1154.0 | 1146.5 | 1135.3 | 1122.8 | 1114.1 |
| 155°   | 1174.0 | 1172.7 | 1170.2 | 1169.0 | 1160.3 | 1156.5 | 1155.3 | 1147.8 | 1137.8 | 1127.8 | 1119.1 |
| 157.5° | 1172.7 | 1170.2 | 1169.0 | 1166.5 | 1159.0 | 1156.5 | 1154.0 | 1147.8 | 1139.1 | 1130.3 | 1121.6 |
| 160°   | 1170.2 | 1167.7 | 1166.5 | 1164.0 | 1157.8 | 1155.3 | 1154.0 | 1147.8 | 1141.6 | 1132.8 | 1122.8 |
| 162.5° | 1164.0 | 1162.8 | 1161.5 | 1160.3 | 1155.3 | 1152.8 | 1151.5 | 1146.5 | 1139.1 | 1131.6 | 1121.6 |
| 165°   | 1157.8 | 1155.3 | 1154.0 | 1151.5 | 1146.5 | 1146.5 | 1145.3 | 1141.6 | 1134.1 | 1130.3 | 1119.1 |
| 167.5° | 1146.5 | 1142.8 | 1142.8 | 1139.1 | 1135.3 | 1135.3 | 1134.1 | 1132.8 | 1126.6 | 1124.1 | 1114.1 |
| 170°   | 1132.8 | 1131.6 | 1129.1 | 1127.8 | 1125.3 | 1125.3 | 1124.1 | 1122.8 | 1117.8 | 1117.8 | 1107.9 |
| 172.5° | 1120.3 | 1119.1 | 1117.8 | 1115.4 | 1111.6 | 1111.6 | 1111.6 | 1111.6 | 1107.9 | 1107.9 | 1099.1 |
| 175°   | 1102.9 | 1100.4 | 1100.4 | 1099.1 | 1096.6 | 1097.9 | 1097.9 | 1097.9 | 1095.4 | 1097.9 | 1089.2 |
| 177.5° | 1079.2 | 1076.7 | 1079.2 | 1081.7 | 1080.4 | 1081.7 | 1082.9 | 1082.9 | 1080.4 | 1084.2 | 1076.7 |
| 180°   | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 |
| 2.5°   | 1212.7 | 1213.9 | 1212.7 | 1213.9 | 1215.2 | 1213.9 | 1215.2 | 1220.1 | 1225.1 | 1227.6 | 1225.1 |
| 5°     | 1207.7 | 1208.9 | 1207.7 | 1208.9 | 1210.2 | 1208.9 | 1210.2 | 1213.9 | 1220.1 | 1221.4 | 1220.1 |
| 7.5°   | 1200.2 | 1201.4 | 1200.2 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1206.4 | 1211.4 | 1213.9 | 1211.4 |
| 10°    | 1187.7 | 1189.0 | 1187.7 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1195.2 | 1200.2 | 1202.7 | 1198.9 |
| 12.5°  | 1172.7 | 1174.0 | 1172.7 | 1175.2 | 1174.0 | 1175.2 | 1176.5 | 1180.2 | 1185.2 | 1187.7 | 1185.2 |
| 15°    | 1152.8 | 1155.3 | 1154.0 | 1156.5 | 1156.5 | 1156.5 | 1156.5 | 1161.5 | 1166.5 | 1169.0 | 1166.5 |
| 17.5°  | 1130.3 | 1131.6 | 1131.6 | 1134.1 | 1134.1 | 1134.1 | 1135.3 | 1140.3 | 1144.0 | 1146.5 | 1144.0 |
| 20°    | 1105.4 | 1107.9 | 1107.9 | 1109.1 | 1109.1 | 1110.4 | 1111.6 | 1115.4 | 1120.3 | 1122.8 | 1120.3 |
| 22.5°  | 1077.9 | 1080.4 | 1081.7 | 1081.7 | 1081.7 | 1082.9 | 1084.2 | 1087.9 | 1094.1 | 1095.4 | 1092.9 |
| 25°    | 1049.2 | 1049.2 | 1051.7 | 1051.7 | 1053.0 | 1054.2 | 1055.5 | 1058.0 | 1064.2 | 1065.4 | 1064.2 |
| 27.5°  | 1018.0 | 1016.8 | 1018.0 | 1020.5 | 1020.5 | 1023.0 | 1024.3 | 1026.8 | 1031.8 | 1034.3 | 1031.8 |
| 30°    | 983.1  | 983.1  | 985.6  | 986.8  | 986.8  | 988.1  | 990.6  | 993.1  | 998.1  | 1000.6 | 998.1  |
| 32.5°  | 948.2  | 946.9  | 950.7  | 950.7  | 951.9  | 953.2  | 954.4  | 958.2  | 961.9  | 964.4  | 963.1  |
| 35°    | 912.0  | 908.2  | 913.2  | 913.2  | 914.5  | 917.0  | 917.0  | 919.5  | 924.5  | 927.0  | 924.5  |
| 37.5°  | 874.6  | 870.8  | 874.6  | 877.1  | 875.8  | 878.3  | 879.6  | 882.1  | 887.0  | 888.3  | 888.3  |
| 40°    | 835.9  | 832.1  | 835.9  | 837.1  | 837.1  | 838.4  | 840.9  | 842.1  | 845.9  | 849.6  | 847.1  |
| 42.5°  | 793.5  | 792.2  | 794.7  | 797.2  | 797.2  | 798.5  | 799.7  | 801.0  | 804.7  | 808.4  | 805.9  |
| 45°    | 751.1  | 751.1  | 753.5  | 756.0  | 757.3  | 757.3  | 758.5  | 759.8  | 762.3  | 767.3  | 763.5  |
| 47.5°  | 708.6  | 708.6  | 711.1  | 712.4  | 712.4  | 713.6  | 716.1  | 716.1  | 721.1  | 721.1  | 722.4  |
| 50°    | 663.7  | 666.2  | 668.7  | 672.5  | 670.0  | 671.2  | 673.7  | 673.7  | 676.2  | 676.2  | 679.9  |
| 52.5°  | 620.1  | 621.3  | 625.0  | 628.8  | 630.0  | 628.8  | 630.0  | 630.0  | 632.5  | 636.3  | 633.8  |
| 55°    | 576.4  | 576.4  | 581.4  | 585.1  | 585.1  | 585.1  | 585.1  | 586.4  | 590.1  | 590.1  | 590.1  |
| 57.5°  | 531.5  | 532.7  | 536.5  | 541.5  | 541.5  | 541.5  | 541.5  | 542.7  | 545.2  | 544.0  | 547.7  |
| 60°    | 487.8  | 487.8  | 492.8  | 495.3  | 495.3  | 497.8  | 497.8  | 499.0  | 500.3  | 504.0  | 504.0  |
| 62.5°  | 444.1  | 444.1  | 447.9  | 450.4  | 452.9  | 451.6  | 452.9  | 454.1  | 456.6  | 460.4  | 457.9  |
| 65°    | 399.2  | 399.2  | 403.0  | 404.2  | 408.0  | 406.7  | 408.0  | 411.7  | 413.0  | 414.2  | 413.0  |
| 67.5°  | 353.1  | 354.3  | 358.1  | 359.3  | 363.1  | 364.3  | 363.1  | 368.0  | 369.3  | 371.8  | 370.5  |
| 70°    | 304.4  | 305.7  | 310.7  | 311.9  | 314.4  | 313.1  | 315.6  | 321.9  | 324.4  | 325.6  | 323.1  |
| 72.5°  | 260.7  | 262.0  | 267.0  | 268.2  | 270.7  | 269.5  | 272.0  | 275.7  | 278.2  | 279.5  | 279.5  |
| 75°    | 215.8  | 218.3  | 220.8  | 223.3  | 227.1  | 225.8  | 228.3  | 232.1  | 234.5  | 235.8  | 235.8  |
| 77.5°  | 173.4  | 174.7  | 178.4  | 179.7  | 183.4  | 182.1  | 183.4  | 185.9  | 189.6  | 190.9  | 190.9  |
| 80°    | 131.0  | 133.5  | 134.7  | 137.2  | 139.7  | 138.5  | 141.0  | 144.7  | 146.0  | 147.2  | 147.2  |
| 82.5°  | 89.8   | 91.1   | 93.6   | 96.1   | 98.6   | 99.8   | 101.1  | 103.6  | 104.8  | 104.8  | 104.8  |
| 85°    | 49.9   | 52.4   | 54.9   | 56.1   | 58.6   | 57.4   | 61.1   | 63.6   | 64.9   | 64.9   | 66.1   |
| 87.5°  | 13.7   | 16.2   | 17.5   | 20.0   | 22.5   | 22.5   | 22.5   | 27.4   | 27.4   | 28.7   | 28.7   |
| 90°    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 92.5°  | 3.7    | 5.0    | 5.0    | 6.2    | 7.5    | 8.7    | 12.5   | 12.5   | 10.0   | 8.7    | 10.0   |
| 95°    | 10.0   | 11.2   | 13.7   | 21.2   | 26.2   | 29.9   | 34.9   | 33.7   | 28.7   | 22.5   | 21.2   |
| 97.5°  | 18.7   | 23.7   | 33.7   | 51.2   | 61.1   | 66.1   | 71.1   | 63.6   | 53.6   | 43.7   | 39.9   |
| 100°   | 34.9   | 47.4   | 72.4   | 102.3  | 113.5  | 118.5  | 117.3  | 101.1  | 87.3   | 71.1   | 62.4   |
| 102.5° | 66.1   | 101.1  | 143.5  | 177.2  | 184.6  | 178.4  | 168.4  | 148.5  | 128.5  | 106.0  | 92.3   |
| 105°   | 143.5  | 203.4  | 247.0  | 259.5  | 263.2  | 250.8  | 227.1  | 202.1  | 173.4  | 147.2  | 127.3  |
| 107.5° | 285.7  | 340.6  | 356.8  | 348.1  | 343.1  | 321.9  | 291.9  | 259.5  | 225.8  | 193.4  | 168.4  |
| 110°   | 452.9  | 462.9  | 451.6  | 424.2  | 409.2  | 390.5  | 356.8  | 319.4  | 277.0  | 244.5  | 214.6  |





TEST NUMBER: P303173

CATALOG NUMBER: CTW-F-5050-50L930-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 575.1  | 553.9  | 525.2  | 489.1  | 471.6  | 451.6  | 415.4  | 379.3  | 333.1  | 296.9  | 264.5  |
| 115°   | 653.7  | 622.6  | 587.6  | 548.9  | 530.2  | 509.0  | 472.8  | 432.9  | 386.8  | 353.1  | 315.6  |
| 117.5° | 714.9  | 676.2  | 641.3  | 603.8  | 586.4  | 565.2  | 529.0  | 485.3  | 439.2  | 405.5  | 368.0  |
| 120°   | 762.3  | 726.1  | 689.9  | 655.0  | 635.0  | 617.6  | 580.1  | 536.5  | 490.3  | 452.9  | 417.9  |
| 122.5° | 804.7  | 771.0  | 736.1  | 702.4  | 683.7  | 663.7  | 625.0  | 582.6  | 540.2  | 505.3  | 470.3  |
| 125°   | 844.6  | 813.4  | 778.5  | 744.8  | 726.1  | 706.1  | 668.7  | 627.5  | 585.1  | 547.7  | 517.8  |
| 127.5° | 882.1  | 852.1  | 817.2  | 784.7  | 766.0  | 744.8  | 708.6  | 668.7  | 632.5  | 593.9  | 563.9  |
| 130°   | 915.7  | 888.3  | 854.6  | 822.2  | 803.5  | 783.5  | 747.3  | 708.6  | 673.7  | 640.0  | 607.6  |
| 132.5° | 945.7  | 918.2  | 885.8  | 855.9  | 835.9  | 818.4  | 783.5  | 747.3  | 712.4  | 681.2  | 651.2  |
| 135°   | 974.4  | 945.7  | 915.7  | 884.5  | 867.1  | 850.9  | 817.2  | 783.5  | 751.1  | 722.4  | 694.9  |
| 137.5° | 1000.6 | 969.4  | 939.4  | 909.5  | 893.3  | 879.6  | 847.1  | 815.9  | 788.5  | 759.8  | 732.3  |
| 140°   | 1023.0 | 990.6  | 963.1  | 934.4  | 919.5  | 905.8  | 875.8  | 845.9  | 822.2  | 794.7  | 768.5  |
| 142.5° | 1040.5 | 1008.1 | 983.1  | 955.7  | 941.9  | 930.7  | 902.0  | 875.8  | 852.1  | 828.4  | 802.2  |
| 145°   | 1054.2 | 1025.5 | 1001.8 | 975.6  | 964.4  | 951.9  | 925.7  | 902.0  | 880.8  | 857.1  | 833.4  |
| 147.5° | 1067.9 | 1043.0 | 1019.3 | 995.6  | 984.4  | 973.1  | 949.4  | 928.2  | 908.2  | 887.0  | 863.3  |
| 150°   | 1079.2 | 1056.7 | 1035.5 | 1014.3 | 1004.3 | 993.1  | 971.9  | 951.9  | 934.4  | 914.5  | 892.0  |
| 152.5° | 1086.7 | 1067.9 | 1049.2 | 1030.5 | 1020.5 | 1011.8 | 991.8  | 975.6  | 959.4  | 941.9  | 919.5  |
| 155°   | 1092.9 | 1077.9 | 1060.5 | 1044.2 | 1035.5 | 1028.0 | 1009.3 | 994.3  | 980.6  | 965.6  | 945.7  |
| 157.5° | 1099.1 | 1084.2 | 1069.2 | 1054.2 | 1046.7 | 1039.2 | 1023.0 | 1011.8 | 999.3  | 985.6  | 966.9  |
| 160°   | 1101.6 | 1090.4 | 1075.4 | 1063.0 | 1056.7 | 1050.5 | 1036.8 | 1026.8 | 1016.8 | 1004.3 | 986.8  |
| 162.5° | 1102.9 | 1092.9 | 1080.4 | 1070.4 | 1065.4 | 1060.5 | 1046.7 | 1039.2 | 1030.5 | 1020.5 | 1005.6 |
| 165°   | 1102.9 | 1095.4 | 1085.4 | 1076.7 | 1071.7 | 1067.9 | 1056.7 | 1050.5 | 1044.2 | 1035.5 | 1021.8 |
| 167.5° | 1101.6 | 1094.1 | 1086.7 | 1079.2 | 1075.4 | 1071.7 | 1063.0 | 1059.2 | 1054.2 | 1046.7 | 1035.5 |
| 170°   | 1097.9 | 1092.9 | 1085.4 | 1080.4 | 1077.9 | 1074.2 | 1067.9 | 1065.4 | 1063.0 | 1058.0 | 1046.7 |
| 172.5° | 1091.6 | 1087.9 | 1082.9 | 1079.2 | 1077.9 | 1074.2 | 1069.2 | 1067.9 | 1067.9 | 1064.2 | 1055.5 |
| 175°   | 1082.9 | 1081.7 | 1077.9 | 1075.4 | 1072.9 | 1071.7 | 1067.9 | 1069.2 | 1070.4 | 1069.2 | 1061.7 |
| 177.5° | 1071.7 | 1071.7 | 1069.2 | 1069.2 | 1067.9 | 1066.7 | 1065.4 | 1067.9 | 1071.7 | 1071.7 | 1066.7 |
| 180°   | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 |



TEST NUMBER: P303173

CATALOG NUMBER: CTW-F-5050-50L930-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 |
| 2.5°   | 1221.4 | 1216.4 | 1215.2 | 1215.2 | 1213.9 | 1211.4 | 1210.2 | 1211.4 | 1216.4 | 1223.9 | 1216.4 |
| 5°     | 1216.4 | 1211.4 | 1208.9 | 1208.9 | 1208.9 | 1205.2 | 1205.2 | 1205.2 | 1211.4 | 1217.7 | 1210.2 |
| 7.5°   | 1207.7 | 1202.7 | 1201.4 | 1201.4 | 1200.2 | 1197.7 | 1196.4 | 1197.7 | 1202.7 | 1208.9 | 1201.4 |
| 10°    | 1196.4 | 1191.5 | 1190.2 | 1189.0 | 1187.7 | 1185.2 | 1184.0 | 1185.2 | 1190.2 | 1195.2 | 1189.0 |
| 12.5°  | 1181.5 | 1176.5 | 1174.0 | 1175.2 | 1172.7 | 1169.0 | 1169.0 | 1169.0 | 1175.2 | 1179.0 | 1172.7 |
| 15°    | 1162.8 | 1156.5 | 1155.3 | 1155.3 | 1154.0 | 1150.3 | 1150.3 | 1150.3 | 1156.5 | 1159.0 | 1151.5 |
| 17.5°  | 1140.3 | 1135.3 | 1134.1 | 1134.1 | 1131.6 | 1127.8 | 1127.8 | 1126.6 | 1134.1 | 1135.3 | 1130.3 |
| 20°    | 1116.6 | 1111.6 | 1109.1 | 1109.1 | 1106.6 | 1102.9 | 1102.9 | 1101.6 | 1110.4 | 1107.9 | 1104.1 |
| 22.5°  | 1090.4 | 1084.2 | 1081.7 | 1082.9 | 1080.4 | 1075.4 | 1075.4 | 1074.2 | 1081.7 | 1077.9 | 1072.9 |
| 25°    | 1061.7 | 1054.2 | 1053.0 | 1051.7 | 1050.5 | 1044.2 | 1044.2 | 1044.2 | 1051.7 | 1045.5 | 1041.7 |
| 27.5°  | 1028.0 | 1023.0 | 1021.8 | 1018.0 | 1018.0 | 1013.0 | 1013.0 | 1013.0 | 1020.5 | 1011.8 | 1010.6 |
| 30°    | 994.3  | 989.3  | 989.3  | 985.6  | 984.4  | 979.4  | 979.4  | 979.4  | 986.8  | 978.1  | 975.6  |
| 32.5°  | 960.6  | 954.4  | 951.9  | 949.4  | 949.4  | 944.4  | 944.4  | 944.4  | 949.4  | 940.7  | 938.2  |
| 35°    | 923.2  | 917.0  | 917.0  | 912.0  | 912.0  | 907.0  | 905.8  | 908.2  | 909.5  | 902.0  | 899.5  |
| 37.5°  | 884.5  | 878.3  | 878.3  | 874.6  | 874.6  | 869.6  | 869.6  | 873.3  | 869.6  | 865.8  | 860.8  |
| 40°    | 845.9  | 840.9  | 838.4  | 834.6  | 835.9  | 832.1  | 830.9  | 833.4  | 830.9  | 827.2  | 820.9  |
| 42.5°  | 804.7  | 799.7  | 798.5  | 796.0  | 796.0  | 792.2  | 791.0  | 793.5  | 789.7  | 784.7  | 781.0  |
| 45°    | 763.5  | 759.8  | 758.5  | 756.0  | 756.0  | 751.1  | 751.1  | 752.3  | 747.3  | 744.8  | 739.8  |
| 47.5°  | 719.9  | 717.4  | 714.9  | 714.9  | 713.6  | 709.9  | 709.9  | 709.9  | 706.1  | 703.6  | 697.4  |
| 50°    | 677.4  | 673.7  | 672.5  | 672.5  | 672.5  | 668.7  | 667.5  | 665.0  | 662.5  | 661.2  | 655.0  |
| 52.5°  | 633.8  | 631.3  | 630.0  | 630.0  | 631.3  | 625.0  | 623.8  | 621.3  | 620.1  | 618.8  | 611.3  |
| 55°    | 590.1  | 587.6  | 585.1  | 587.6  | 586.4  | 581.4  | 580.1  | 581.4  | 577.6  | 573.9  | 567.7  |
| 57.5°  | 546.4  | 542.7  | 542.7  | 544.0  | 542.7  | 537.7  | 536.5  | 537.7  | 532.7  | 529.0  | 524.0  |
| 60°    | 502.8  | 499.0  | 497.8  | 499.0  | 497.8  | 492.8  | 491.6  | 491.6  | 487.8  | 485.3  | 480.3  |
| 62.5°  | 459.1  | 455.4  | 455.4  | 455.4  | 454.1  | 451.6  | 447.9  | 447.9  | 444.1  | 440.4  | 436.7  |
| 65°    | 413.0  | 409.2  | 410.5  | 410.5  | 410.5  | 408.0  | 404.2  | 405.5  | 399.2  | 396.7  | 393.0  |
| 67.5°  | 369.3  | 365.5  | 365.5  | 365.5  | 365.5  | 365.5  | 359.3  | 358.1  | 354.3  | 353.1  | 349.3  |
| 70°    | 323.1  | 318.1  | 319.4  | 318.1  | 316.9  | 315.6  | 311.9  | 310.7  | 306.9  | 306.9  | 303.2  |
| 72.5°  | 277.0  | 274.5  | 274.5  | 274.5  | 273.2  | 272.0  | 269.5  | 268.2  | 263.2  | 263.2  | 260.7  |
| 75°    | 230.8  | 230.8  | 229.6  | 229.6  | 229.6  | 228.3  | 225.8  | 224.6  | 219.6  | 220.8  | 218.3  |
| 77.5°  | 188.4  | 188.4  | 185.9  | 185.9  | 185.9  | 184.6  | 183.4  | 179.7  | 179.7  | 177.2  | 175.9  |
| 80°    | 144.7  | 144.7  | 143.5  | 143.5  | 143.5  | 142.2  | 141.0  | 139.7  | 137.2  | 136.0  | 133.5  |
| 82.5°  | 104.8  | 103.6  | 102.3  | 102.3  | 101.1  | 101.1  | 99.8   | 98.6   | 96.1   | 92.3   | 91.1   |
| 85°    | 63.6   | 63.6   | 62.4   | 62.4   | 61.1   | 61.1   | 58.6   | 56.1   | 53.6   | 51.2   | 49.9   |
| 87.5°  | 27.4   | 27.4   | 23.7   | 23.7   | 22.5   | 22.5   | 21.2   | 20.0   | 17.5   | 16.2   | 15.0   |
| 90°    | 2.5    | 3.7    | 3.7    | 3.7    | 5.0    | 5.0    | 5.0    | 6.2    | 6.2    | 6.2    | 6.2    |
| 92.5°  | 15.0   | 18.7   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   | 18.7   | 18.7   |
| 95°    | 25.0   | 27.4   | 33.7   | 36.2   | 38.7   | 41.2   | 41.2   | 41.2   | 41.2   | 39.9   | 37.4   |
| 97.5°  | 37.4   | 39.9   | 43.7   | 43.7   | 44.9   | 51.2   | 56.1   | 58.6   | 61.1   | 62.4   | 62.4   |
| 100°   | 58.6   | 53.6   | 58.6   | 62.4   | 61.1   | 61.1   | 63.6   | 68.6   | 73.6   | 76.1   | 77.4   |
| 102.5° | 83.6   | 74.9   | 72.4   | 74.9   | 77.4   | 82.3   | 79.8   | 81.1   | 83.6   | 87.3   | 91.1   |
| 105°   | 114.8  | 103.6  | 94.8   | 93.6   | 93.6   | 98.6   | 104.8  | 103.6  | 102.3  | 102.3  | 102.3  |
| 107.5° | 151.0  | 134.7  | 121.0  | 118.5  | 116.0  | 116.0  | 119.8  | 127.3  | 132.2  | 127.3  | 124.8  |
| 110°   | 192.1  | 169.7  | 155.9  | 148.5  | 143.5  | 138.5  | 138.5  | 142.2  | 148.5  | 154.7  | 157.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 238.3  | 210.8  | 192.1  | 185.9  | 175.9  | 164.7  | 160.9  | 160.9  | 164.7  | 170.9  | 175.9  |
| 115°   | 285.7  | 257.0  | 230.8  | 223.3  | 213.3  | 195.9  | 185.9  | 183.4  | 183.4  | 185.9  | 190.9  |
| 117.5° | 338.1  | 303.2  | 274.5  | 264.5  | 253.3  | 233.3  | 217.1  | 208.3  | 204.6  | 204.6  | 207.1  |
| 120°   | 384.3  | 354.3  | 324.4  | 310.7  | 296.9  | 274.5  | 253.3  | 239.5  | 230.8  | 225.8  | 224.6  |
| 122.5° | 436.7  | 405.5  | 373.0  | 361.8  | 346.8  | 320.6  | 298.2  | 277.0  | 263.2  | 253.3  | 245.8  |
| 125°   | 484.1  | 455.4  | 421.7  | 408.0  | 394.2  | 368.0  | 345.6  | 321.9  | 303.2  | 286.9  | 274.5  |
| 127.5° | 530.2  | 501.5  | 469.1  | 456.6  | 442.9  | 415.4  | 391.7  | 369.3  | 349.3  | 329.4  | 311.9  |
| 130°   | 576.4  | 548.9  | 516.5  | 502.8  | 490.3  | 464.1  | 437.9  | 415.4  | 398.0  | 378.0  | 358.1  |
| 132.5° | 621.3  | 592.6  | 562.7  | 547.7  | 536.5  | 510.3  | 486.6  | 462.9  | 442.9  | 425.4  | 406.7  |
| 135°   | 663.7  | 636.3  | 606.3  | 591.4  | 580.1  | 556.4  | 532.7  | 511.5  | 489.1  | 471.6  | 454.1  |
| 137.5° | 703.6  | 676.2  | 650.0  | 633.8  | 622.6  | 601.3  | 578.9  | 558.9  | 536.5  | 517.8  | 500.3  |
| 140°   | 741.1  | 714.9  | 689.9  | 676.2  | 663.7  | 642.5  | 622.6  | 606.3  | 582.6  | 565.2  | 547.7  |
| 142.5° | 776.0  | 749.8  | 726.1  | 714.9  | 702.4  | 682.4  | 663.7  | 648.7  | 631.3  | 612.6  | 595.1  |
| 145°   | 807.2  | 784.7  | 762.3  | 751.1  | 739.8  | 721.1  | 703.6  | 689.9  | 674.9  | 656.2  | 640.0  |
| 147.5° | 839.6  | 817.2  | 796.0  | 786.0  | 777.3  | 758.5  | 742.3  | 728.6  | 717.4  | 699.9  | 683.7  |
| 150°   | 869.6  | 848.4  | 829.7  | 819.7  | 812.2  | 792.2  | 779.7  | 766.0  | 757.3  | 741.1  | 727.3  |
| 152.5° | 898.3  | 879.6  | 860.8  | 853.4  | 844.6  | 825.9  | 813.4  | 799.7  | 794.7  | 778.5  | 767.3  |
| 155°   | 925.7  | 905.8  | 890.8  | 883.3  | 874.6  | 857.1  | 847.1  | 834.6  | 830.9  | 815.9  | 804.7  |
| 157.5° | 950.7  | 930.7  | 917.0  | 909.5  | 902.0  | 887.0  | 877.1  | 865.8  | 863.3  | 852.1  | 839.6  |
| 160°   | 971.9  | 953.2  | 940.7  | 935.7  | 928.2  | 914.5  | 904.5  | 895.8  | 893.3  | 885.8  | 873.3  |
| 162.5° | 990.6  | 974.4  | 964.4  | 958.2  | 951.9  | 939.4  | 932.0  | 922.0  | 922.0  | 915.7  | 905.8  |
| 165°   | 1009.3 | 994.3  | 984.4  | 979.4  | 974.4  | 964.4  | 955.7  | 949.4  | 949.4  | 944.4  | 934.4  |
| 167.5° | 1024.3 | 1010.6 | 1003.1 | 998.1  | 994.3  | 984.4  | 978.1  | 971.9  | 973.1  | 970.6  | 960.6  |
| 170°   | 1038.0 | 1025.5 | 1019.3 | 1015.5 | 1011.8 | 1003.1 | 999.3  | 993.1  | 994.3  | 994.3  | 985.6  |
| 172.5° | 1049.2 | 1038.0 | 1033.0 | 1029.3 | 1028.0 | 1019.3 | 1016.8 | 1013.0 | 1014.3 | 1016.8 | 1005.6 |
| 175°   | 1056.7 | 1048.0 | 1043.0 | 1041.7 | 1039.2 | 1034.3 | 1030.5 | 1029.3 | 1031.8 | 1035.5 | 1025.5 |
| 177.5° | 1063.0 | 1055.5 | 1053.0 | 1053.0 | 1050.5 | 1045.5 | 1043.0 | 1043.0 | 1046.7 | 1051.7 | 1044.2 |
| 180°   | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 |



TEST NUMBER: P303173

CATALOG NUMBER: CTW-F-5050-50L930-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 |
| 2.5°   | 1218.9 | 1217.7 | 1216.4 | 1213.9 | 1212.7 | 1210.2 | 1208.9 | 1210.2 |
| 5°     | 1211.4 | 1210.2 | 1208.9 | 1207.7 | 1207.7 | 1206.4 | 1206.4 | 1207.7 |
| 7.5°   | 1202.7 | 1201.4 | 1200.2 | 1198.9 | 1198.9 | 1198.9 | 1198.9 | 1200.2 |
| 10°    | 1190.2 | 1187.7 | 1186.5 | 1185.2 | 1184.0 | 1184.0 | 1184.0 | 1185.2 |
| 12.5°  | 1174.0 | 1171.5 | 1169.0 | 1167.7 | 1167.7 | 1167.7 | 1167.7 | 1170.2 |
| 15°    | 1152.8 | 1151.5 | 1150.3 | 1149.0 | 1149.0 | 1147.8 | 1147.8 | 1150.3 |
| 17.5°  | 1131.6 | 1129.1 | 1126.6 | 1125.3 | 1124.1 | 1124.1 | 1122.8 | 1124.1 |
| 20°    | 1102.9 | 1100.4 | 1097.9 | 1096.6 | 1096.6 | 1095.4 | 1095.4 | 1096.6 |
| 22.5°  | 1071.7 | 1067.9 | 1066.7 | 1065.4 | 1065.4 | 1064.2 | 1064.2 | 1065.4 |
| 25°    | 1040.5 | 1035.5 | 1034.3 | 1033.0 | 1033.0 | 1031.8 | 1031.8 | 1031.8 |
| 27.5°  | 1008.1 | 1003.1 | 1001.8 | 999.3  | 1000.6 | 998.1  | 996.8  | 998.1  |
| 30°    | 973.1  | 968.1  | 966.9  | 964.4  | 964.4  | 961.9  | 960.6  | 961.9  |
| 32.5°  | 935.7  | 930.7  | 929.5  | 928.2  | 929.5  | 924.5  | 923.2  | 925.7  |
| 35°    | 897.0  | 892.0  | 892.0  | 889.5  | 890.8  | 885.8  | 885.8  | 887.0  |
| 37.5°  | 857.1  | 852.1  | 853.4  | 850.9  | 850.9  | 847.1  | 847.1  | 848.4  |
| 40°    | 817.2  | 813.4  | 810.9  | 810.9  | 812.2  | 807.2  | 807.2  | 805.9  |
| 42.5°  | 776.0  | 772.3  | 771.0  | 771.0  | 769.8  | 766.0  | 764.8  | 766.0  |
| 45°    | 734.8  | 731.1  | 731.1  | 729.8  | 729.8  | 724.9  | 726.1  | 724.9  |
| 47.5°  | 692.4  | 689.9  | 688.7  | 687.4  | 687.4  | 682.4  | 683.7  | 682.4  |
| 50°    | 650.0  | 648.7  | 647.5  | 646.3  | 646.3  | 641.3  | 643.8  | 641.3  |
| 52.5°  | 607.6  | 606.3  | 605.1  | 605.1  | 603.8  | 601.3  | 601.3  | 598.8  |
| 55°    | 565.2  | 562.7  | 562.7  | 562.7  | 561.4  | 557.7  | 560.2  | 557.7  |
| 57.5°  | 522.7  | 520.2  | 519.0  | 517.8  | 517.8  | 516.5  | 515.3  | 514.0  |
| 60°    | 479.1  | 476.6  | 476.6  | 474.1  | 474.1  | 474.1  | 472.8  | 471.6  |
| 62.5°  | 435.4  | 432.9  | 432.9  | 431.7  | 431.7  | 431.7  | 430.4  | 429.2  |
| 65°    | 393.0  | 389.2  | 389.2  | 388.0  | 388.0  | 388.0  | 386.8  | 385.5  |
| 67.5°  | 348.1  | 345.6  | 345.6  | 344.3  | 345.6  | 345.6  | 344.3  | 341.8  |
| 70°    | 301.9  | 299.4  | 299.4  | 298.2  | 299.4  | 299.4  | 298.2  | 295.7  |
| 72.5°  | 259.5  | 257.0  | 255.8  | 257.0  | 257.0  | 257.0  | 254.5  | 253.3  |
| 75°    | 217.1  | 213.3  | 213.3  | 214.6  | 213.3  | 214.6  | 212.1  | 214.6  |
| 77.5°  | 174.7  | 170.9  | 170.9  | 172.2  | 170.9  | 170.9  | 169.7  | 172.2  |
| 80°    | 131.0  | 128.5  | 128.5  | 129.7  | 128.5  | 128.5  | 127.3  | 129.7  |
| 82.5°  | 89.8   | 88.6   | 89.8   | 87.3   | 84.8   | 84.8   | 83.6   | 86.1   |
| 85°    | 49.9   | 48.7   | 47.4   | 47.4   | 46.2   | 46.2   | 44.9   | 47.4   |
| 87.5°  | 15.0   | 16.2   | 16.2   | 15.0   | 15.0   | 15.0   | 15.0   | 16.2   |
| 90°    | 6.2    | 6.2    | 6.2    | 7.5    | 7.5    | 8.7    | 8.7    | 8.7    |
| 92.5°  | 18.7   | 18.7   | 17.5   | 18.7   | 17.5   | 17.5   | 17.5   | 17.5   |
| 95°    | 37.4   | 37.4   | 37.4   | 37.4   | 37.4   | 37.4   | 37.4   | 37.4   |
| 97.5°  | 62.4   | 63.6   | 62.4   | 63.6   | 62.4   | 61.1   | 62.4   | 61.1   |
| 100°   | 78.6   | 81.1   | 81.1   | 82.3   | 82.3   | 82.3   | 82.3   | 82.3   |
| 102.5° | 93.6   | 96.1   | 96.1   | 97.3   | 97.3   | 98.6   | 98.6   | 97.3   |
| 105°   | 106.0  | 107.3  | 108.5  | 109.8  | 112.3  | 114.8  | 114.8  | 114.8  |
| 107.5° | 123.5  | 126.0  | 124.8  | 126.0  | 127.3  | 127.3  | 127.3  | 127.3  |
| 110°   | 154.7  | 152.2  | 151.0  | 148.5  | 148.5  | 148.5  | 148.5  | 148.5  |



TEST NUMBER: P303173

CATALOG NUMBER: CTW-F-5050-50L930-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 180.9  | 183.4  | 183.4  | 183.4  | 183.4  | 182.1  | 179.7  | 179.7  |
| 115°   | 197.1  | 202.1  | 203.4  | 204.6  | 207.1  | 208.3  | 208.3  | 208.3  |
| 117.5° | 209.6  | 214.6  | 215.8  | 218.3  | 220.8  | 223.3  | 224.6  | 225.8  |
| 120°   | 225.8  | 229.6  | 230.8  | 230.8  | 233.3  | 234.5  | 237.0  | 237.0  |
| 122.5° | 244.5  | 245.8  | 245.8  | 245.8  | 247.0  | 248.3  | 249.5  | 249.5  |
| 125°   | 269.5  | 265.7  | 265.7  | 263.2  | 263.2  | 262.0  | 263.2  | 263.2  |
| 127.5° | 300.7  | 295.7  | 293.2  | 289.4  | 286.9  | 283.2  | 283.2  | 283.2  |
| 130°   | 344.3  | 335.6  | 330.6  | 324.4  | 319.4  | 311.9  | 311.9  | 311.9  |
| 132.5° | 391.7  | 378.0  | 374.3  | 368.0  | 360.6  | 353.1  | 351.8  | 351.8  |
| 135°   | 440.4  | 425.4  | 420.4  | 414.2  | 405.5  | 399.2  | 394.2  | 398.0  |
| 137.5° | 486.6  | 472.8  | 471.6  | 466.6  | 455.4  | 447.9  | 446.6  | 446.6  |
| 140°   | 534.0  | 519.0  | 516.5  | 511.5  | 505.3  | 497.8  | 494.0  | 495.3  |
| 142.5° | 580.1  | 565.2  | 562.7  | 558.9  | 550.2  | 544.0  | 540.2  | 541.5  |
| 145°   | 627.5  | 612.6  | 610.1  | 605.1  | 596.4  | 591.4  | 586.4  | 590.1  |
| 147.5° | 672.5  | 658.7  | 655.0  | 648.7  | 643.8  | 637.5  | 633.8  | 632.5  |
| 150°   | 716.1  | 702.4  | 699.9  | 693.7  | 688.7  | 683.7  | 678.7  | 681.2  |
| 152.5° | 757.3  | 747.3  | 742.3  | 736.1  | 732.3  | 727.3  | 723.6  | 724.9  |
| 155°   | 796.0  | 783.5  | 781.0  | 776.0  | 773.5  | 768.5  | 766.0  | 766.0  |
| 157.5° | 829.7  | 822.2  | 818.4  | 814.7  | 810.9  | 808.4  | 804.7  | 805.9  |
| 160°   | 865.8  | 858.3  | 854.6  | 852.1  | 847.1  | 847.1  | 843.4  | 844.6  |
| 162.5° | 899.5  | 893.3  | 889.5  | 887.0  | 884.5  | 883.3  | 879.6  | 880.8  |
| 165°   | 929.5  | 923.2  | 922.0  | 918.2  | 917.0  | 917.0  | 913.2  | 913.2  |
| 167.5° | 956.9  | 951.9  | 948.2  | 946.9  | 944.4  | 944.4  | 941.9  | 943.2  |
| 170°   | 983.1  | 978.1  | 975.6  | 973.1  | 970.6  | 970.6  | 969.4  | 969.4  |
| 172.5° | 1005.6 | 1001.8 | 1000.6 | 998.1  | 996.8  | 996.8  | 995.6  | 995.6  |
| 175°   | 1026.8 | 1023.0 | 1021.8 | 1019.3 | 1018.0 | 1016.8 | 1016.8 | 1016.8 |
| 177.5° | 1045.5 | 1044.2 | 1041.7 | 1041.7 | 1039.2 | 1036.8 | 1034.3 | 1033.0 |
| 180°   | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 | 1061.7 |

(END OF REPORT)