

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: P303163

Luminaire Tested: **CTW-F-5050-40L935-UNV-STD-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-5050-40L935-UNV-STD-8
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 4000 LUMEN PACKAGE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

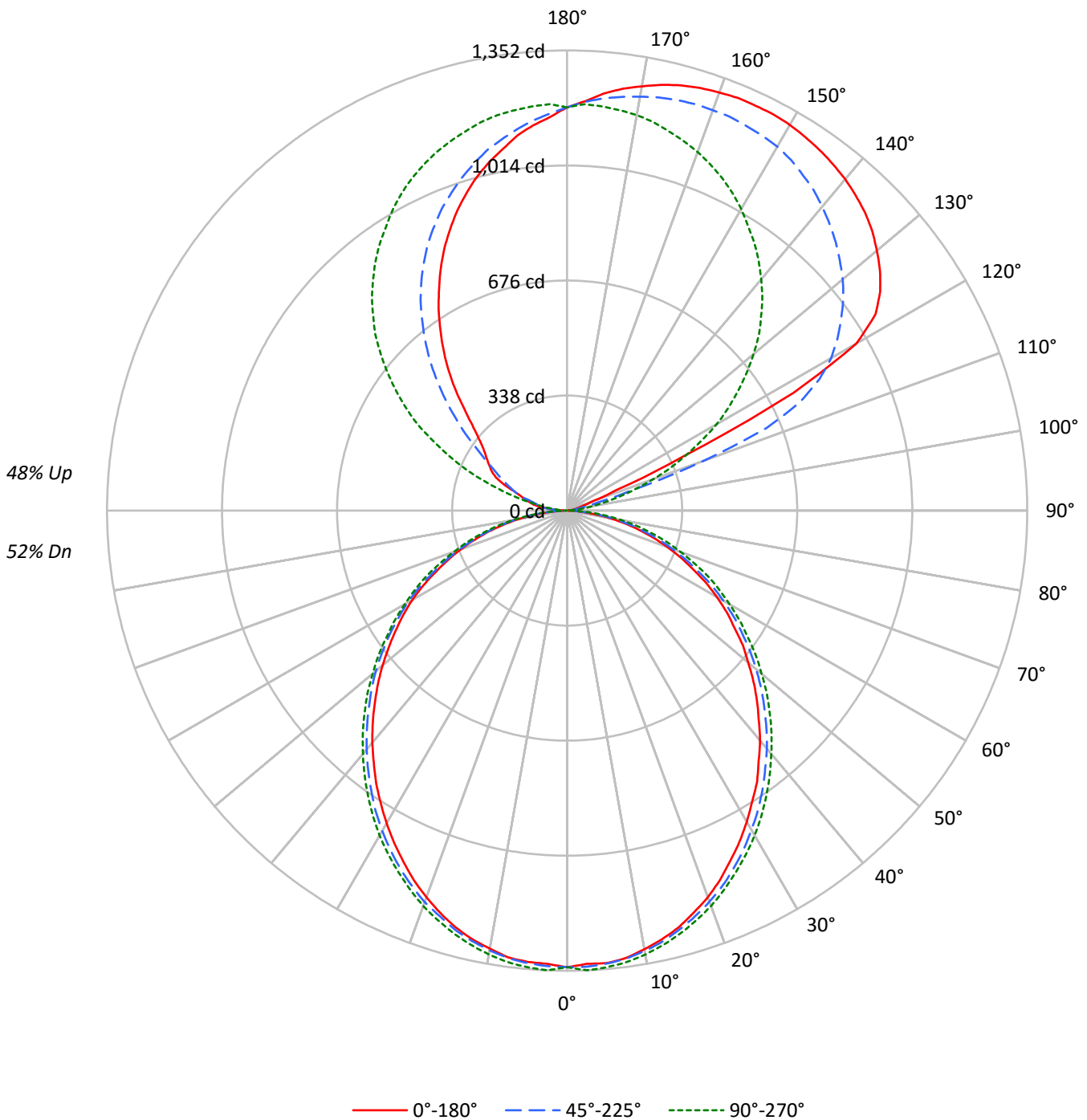
Lumens per Lamp: N/A
Luminaire Lumens: 6934.1 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 8' x L: 0.12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 61.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P303163
CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-8

Luminous Intensity Polar Plot





TEST NUMBER: P303163

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-8

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 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 58 | 58 | 58 | 52 |
| 1 | 98 | 94 | 90 | 86 | 90 | 87 | 83 | 80 | 74 | 71 | 69 | 62 | 60 | 58 | 51 | 50 | 48 | 43 |
| 2 | 89 | 82 | 75 | 70 | 82 | 76 | 70 | 66 | 64 | 60 | 57 | 54 | 51 | 49 | 45 | 42 | 41 | 36 |
| 3 | 81 | 72 | 64 | 58 | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 37 | 34 | 30 |
| 4 | 74 | 63 | 55 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 41 | 42 | 38 | 35 | 35 | 32 | 30 | 26 |
| 5 | 68 | 56 | 48 | 42 | 63 | 52 | 45 | 40 | 45 | 39 | 35 | 38 | 34 | 30 | 32 | 28 | 26 | 23 |
| 6 | 63 | 51 | 42 | 37 | 58 | 47 | 40 | 34 | 41 | 35 | 30 | 34 | 30 | 27 | 29 | 25 | 23 | 20 |
| 7 | 58 | 46 | 38 | 32 | 54 | 43 | 35 | 30 | 37 | 31 | 27 | 31 | 27 | 23 | 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° | 14439 | 14439 | 14439 |
| 5° | 14420 | 14550 | 14383 |
| 10° | 14304 | 14473 | 14285 |
| 15° | 14123 | 14334 | 14123 |
| 20° | 13846 | 14163 | 13846 |
| 25° | 13478 | 13928 | 13518 |
| 30° | 13120 | 13698 | 13185 |
| 35° | 12784 | 13418 | 12853 |
| 40° | 12389 | 13114 | 12510 |
| 45° | 12006 | 12819 | 12163 |
| 50° | 11622 | 12486 | 11851 |
| 55° | 11247 | 12151 | 11538 |
| 60° | 10936 | 11862 | 11306 |
| 65° | 10394 | 11622 | 10832 |
| 70° | 9863 | 11163 | 10458 |
| 75° | 9095 | 10742 | 9881 |
| 80° | 7792 | 10036 | 8963 |
| 85° | 4891 | 8719 | 6805 |



TEST NUMBER: P303163

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-8

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.7 | 1.8 |
| 10°-20° | 358.4 | 5.2 |
| 20°-30° | 530.6 | 7.7 |
| 30°-40° | 622.9 | 9.0 |
| 40°-50° | 631.5 | 9.1 |
| 50°-60° | 563.2 | 8.1 |
| 60°-70° | 429.7 | 6.2 |
| 70°-80° | 253.9 | 3.7 |
| 80°-90° | 68.5 | 1.0 |
| 90°-100° | 34.5 | 0.5 |
| 100°-110° | 143.6 | 2.1 |
| 110°-120° | 405.1 | 5.8 |
| 120°-130° | 590.5 | 8.5 |
| 130°-140° | 636.0 | 9.2 |
| 140°-150° | 605.1 | 8.7 |
| 150°-160° | 496.7 | 7.2 |
| 160°-170° | 324.7 | 4.7 |
| 170°-180° | 112.5 | 1.6 |
| 0°-30° | 1015.7 | 14.6 |
| 0°-40° | 1638.6 | 23.6 |
| 0°-60° | 2833.3 | 40.9 |
| 0°-90° | 3585.4 | 51.7 |
| 90°-120° | 583.2 | 8.4 |
| 90°-150° | 2414.8 | 34.8 |
| 90°-180° | 3349.0 | 48.3 |
| 0°-180° | 6934.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1341 | 1341 | 1341 | 1341 | 1341 | |
| 5° | 1335 | 1336 | 1347 | 1335 | 1331 | 127 |
| 15° | 1267 | 1274 | 1286 | 1274 | 1267 | 357 |
| 25° | 1135 | 1159 | 1173 | 1161 | 1138 | 523 |
| 35° | 973 | 1000 | 1021 | 1004 | 978 | 607 |
| 45° | 789 | 820 | 842 | 825 | 799 | 608 |
| 55° | 599 | 627 | 648 | 637 | 615 | 538 |
| 65° | 408 | 427 | 456 | 437 | 425 | 406 |
| 75° | 219 | 232 | 258 | 244 | 238 | 231 |
| 85° | 40 | 50 | 71 | 62 | 55 | 51 |
| 90° | 2 | 2 | 2 | 7 | 10 | 2 |
| 95° | 9 | 10 | 26 | 48 | 45 | 9 |
| 105° | 38 | 96 | 158 | 114 | 129 | 45 |
| 115° | 375 | 754 | 386 | 207 | 231 | 443 |
| 125° | 1123 | 983 | 613 | 332 | 294 | 994 |
| 135° | 1238 | 1116 | 806 | 541 | 432 | 955 |
| 145° | 1293 | 1205 | 959 | 751 | 649 | 811 |
| 155° | 1312 | 1247 | 1078 | 923 | 852 | 607 |
| 165° | 1293 | 1248 | 1154 | 1056 | 1018 | 366 |
| 175° | 1230 | 1216 | 1192 | 1150 | 1136 | 118 |
| 180° | 1185 | 1185 | 1185 | 1185 | 1185 | |



TEST NUMBER: P303163

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 |
| 2.5° | 1332.8 | 1331.1 | 1334.6 | 1338.0 | 1338.0 | 1339.7 | 1341.4 | 1343.2 | 1343.2 | 1346.6 | 1341.4 |
| 5° | 1334.6 | 1331.1 | 1332.8 | 1332.8 | 1331.1 | 1332.8 | 1334.6 | 1338.0 | 1338.0 | 1341.4 | 1336.3 |
| 7.5° | 1325.9 | 1324.2 | 1325.9 | 1324.2 | 1322.5 | 1324.2 | 1325.9 | 1327.7 | 1327.7 | 1331.1 | 1327.7 |
| 10° | 1308.7 | 1308.7 | 1308.7 | 1308.7 | 1308.7 | 1310.4 | 1312.2 | 1313.9 | 1313.9 | 1317.3 | 1313.9 |
| 12.5° | 1289.8 | 1289.8 | 1289.8 | 1291.5 | 1288.1 | 1289.8 | 1293.2 | 1296.7 | 1296.7 | 1300.1 | 1296.7 |
| 15° | 1267.4 | 1267.4 | 1269.1 | 1270.8 | 1269.1 | 1269.1 | 1270.8 | 1274.3 | 1274.3 | 1277.7 | 1274.3 |
| 17.5° | 1238.1 | 1238.1 | 1239.8 | 1243.3 | 1241.6 | 1243.3 | 1245.0 | 1248.5 | 1250.2 | 1250.2 | 1250.2 |
| 20° | 1208.8 | 1207.1 | 1208.8 | 1210.6 | 1210.6 | 1212.3 | 1212.3 | 1217.5 | 1220.9 | 1220.9 | 1222.6 |
| 22.5° | 1174.4 | 1171.0 | 1174.4 | 1176.1 | 1176.1 | 1177.8 | 1177.8 | 1183.0 | 1186.5 | 1188.2 | 1193.3 |
| 25° | 1134.8 | 1134.8 | 1136.5 | 1140.0 | 1140.0 | 1141.7 | 1143.4 | 1148.6 | 1152.0 | 1152.0 | 1158.9 |
| 27.5° | 1096.9 | 1095.2 | 1096.9 | 1100.4 | 1103.8 | 1105.5 | 1105.5 | 1110.7 | 1115.9 | 1119.3 | 1122.7 |
| 30° | 1055.6 | 1055.6 | 1057.3 | 1060.8 | 1064.2 | 1062.5 | 1064.2 | 1071.1 | 1076.3 | 1079.7 | 1083.1 |
| 32.5° | 1012.5 | 1012.5 | 1014.3 | 1017.7 | 1022.9 | 1022.9 | 1024.6 | 1029.8 | 1033.2 | 1036.6 | 1043.5 |
| 35° | 972.9 | 969.5 | 971.2 | 974.7 | 981.5 | 979.8 | 981.5 | 986.7 | 990.2 | 995.3 | 1000.5 |
| 37.5° | 924.7 | 924.7 | 926.4 | 929.9 | 936.8 | 935.0 | 938.5 | 941.9 | 947.1 | 952.3 | 955.7 |
| 40° | 881.7 | 883.4 | 881.7 | 885.1 | 890.3 | 892.0 | 892.0 | 895.4 | 902.3 | 907.5 | 912.7 |
| 42.5° | 833.4 | 835.2 | 836.9 | 840.3 | 845.5 | 845.5 | 847.2 | 850.7 | 855.8 | 861.0 | 866.2 |
| 45° | 788.7 | 788.7 | 788.7 | 792.1 | 799.0 | 799.0 | 802.5 | 802.5 | 807.6 | 814.5 | 819.7 |
| 47.5° | 742.2 | 742.2 | 742.2 | 747.3 | 752.5 | 752.5 | 756.0 | 756.0 | 762.8 | 768.0 | 773.2 |
| 50° | 694.0 | 697.4 | 695.7 | 699.1 | 706.0 | 704.3 | 707.7 | 707.7 | 712.9 | 719.8 | 725.0 |
| 52.5° | 650.9 | 650.9 | 647.5 | 652.6 | 657.8 | 657.8 | 659.5 | 659.5 | 666.4 | 671.6 | 676.7 |
| 55° | 599.3 | 602.7 | 599.3 | 604.4 | 609.6 | 609.6 | 613.0 | 613.0 | 614.8 | 621.6 | 626.8 |
| 57.5° | 556.2 | 556.2 | 552.8 | 556.2 | 561.4 | 561.4 | 564.8 | 564.8 | 568.3 | 571.7 | 580.3 |
| 60° | 508.0 | 506.3 | 504.5 | 509.7 | 513.2 | 513.2 | 516.6 | 516.6 | 520.0 | 521.8 | 530.4 |
| 62.5° | 459.8 | 458.1 | 458.1 | 461.5 | 464.9 | 463.2 | 468.4 | 468.4 | 471.8 | 475.3 | 480.4 |
| 65° | 408.1 | 406.4 | 406.4 | 409.8 | 411.6 | 411.6 | 415.0 | 416.7 | 418.4 | 423.6 | 427.1 |
| 67.5° | 361.6 | 359.9 | 358.2 | 361.6 | 363.3 | 363.3 | 366.8 | 368.5 | 372.0 | 373.7 | 377.1 |
| 70° | 313.4 | 311.7 | 310.0 | 313.4 | 316.8 | 315.1 | 318.6 | 320.3 | 322.0 | 325.5 | 328.9 |
| 72.5° | 265.2 | 265.2 | 265.2 | 266.9 | 268.6 | 268.6 | 270.4 | 272.1 | 275.5 | 279.0 | 280.7 |
| 75° | 218.7 | 217.0 | 217.0 | 220.4 | 220.4 | 220.4 | 223.9 | 225.6 | 225.6 | 230.7 | 232.5 |
| 77.5° | 172.2 | 173.9 | 172.2 | 172.2 | 172.2 | 173.9 | 175.6 | 177.4 | 180.8 | 184.3 | 186.0 |
| 80° | 125.7 | 127.4 | 125.7 | 127.4 | 125.7 | 127.4 | 130.9 | 130.9 | 134.3 | 137.8 | 139.5 |
| 82.5° | 80.9 | 82.7 | 80.9 | 82.7 | 82.7 | 82.7 | 84.4 | 86.1 | 89.5 | 91.3 | 94.7 |
| 85° | 39.6 | 37.9 | 39.6 | 39.6 | 39.6 | 39.6 | 43.1 | 43.1 | 46.5 | 48.2 | 49.9 |
| 87.5° | 5.2 | 5.2 | 5.2 | 5.2 | 6.9 | 5.2 | 6.9 | 8.6 | 8.6 | 10.3 | 10.3 |
| 90° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 92.5° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 95° | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 10.3 | 10.3 |
| 97.5° | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 15.5 | 15.5 | 17.2 | 18.9 |
| 100° | 18.9 | 18.9 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7 | 22.4 | 24.1 | 27.6 | 31.0 |
| 102.5° | 27.6 | 27.6 | 27.6 | 29.3 | 29.3 | 31.0 | 31.0 | 34.4 | 37.9 | 43.1 | 53.4 |
| 105° | 37.9 | 39.6 | 39.6 | 39.6 | 43.1 | 43.1 | 44.8 | 49.9 | 58.5 | 72.3 | 96.4 |
| 107.5° | 53.4 | 55.1 | 55.1 | 58.5 | 62.0 | 65.4 | 68.9 | 84.4 | 105.0 | 146.4 | 206.6 |
| 110° | 82.7 | 84.4 | 86.1 | 94.7 | 106.8 | 117.1 | 130.9 | 170.5 | 232.5 | 323.7 | 423.6 |



TEST NUMBER: P303163

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 155.0 | 163.6 | 173.9 | 198.0 | 239.4 | 265.2 | 294.5 | 397.8 | 497.7 | 585.5 | 633.7 |
| 115° | 375.4 | 397.8 | 420.2 | 473.6 | 544.2 | 585.5 | 614.8 | 704.3 | 747.3 | 764.6 | 754.2 |
| 117.5° | 749.1 | 768.0 | 783.5 | 812.8 | 847.2 | 859.3 | 864.4 | 883.4 | 874.8 | 861.0 | 835.2 |
| 120° | 981.5 | 988.4 | 986.7 | 986.7 | 986.7 | 981.5 | 978.1 | 966.0 | 945.4 | 924.7 | 895.4 |
| 122.5° | 1074.5 | 1076.3 | 1069.4 | 1060.8 | 1050.4 | 1045.3 | 1038.4 | 1019.4 | 997.0 | 972.9 | 941.9 |
| 125° | 1122.7 | 1122.7 | 1115.9 | 1107.2 | 1095.2 | 1088.3 | 1078.0 | 1060.8 | 1038.4 | 1014.3 | 983.3 |
| 127.5° | 1158.9 | 1157.2 | 1152.0 | 1145.1 | 1131.4 | 1126.2 | 1115.9 | 1096.9 | 1074.5 | 1053.9 | 1022.9 |
| 130° | 1188.2 | 1186.5 | 1179.6 | 1176.1 | 1164.1 | 1155.5 | 1146.9 | 1127.9 | 1105.5 | 1084.9 | 1057.3 |
| 132.5° | 1215.7 | 1212.3 | 1205.4 | 1202.0 | 1189.9 | 1183.0 | 1174.4 | 1157.2 | 1134.8 | 1115.9 | 1086.6 |
| 135° | 1238.1 | 1233.0 | 1227.8 | 1224.3 | 1214.0 | 1205.4 | 1198.5 | 1181.3 | 1162.4 | 1141.7 | 1115.9 |
| 137.5° | 1255.3 | 1251.9 | 1245.0 | 1241.6 | 1231.2 | 1224.3 | 1217.5 | 1203.7 | 1186.5 | 1165.8 | 1141.7 |
| 140° | 1270.8 | 1265.7 | 1262.2 | 1257.1 | 1248.5 | 1241.6 | 1234.7 | 1222.6 | 1205.4 | 1188.2 | 1165.8 |
| 142.5° | 1282.9 | 1279.4 | 1276.0 | 1272.6 | 1262.2 | 1257.1 | 1250.2 | 1239.8 | 1226.1 | 1208.8 | 1188.2 |
| 145° | 1293.2 | 1289.8 | 1286.3 | 1282.9 | 1274.3 | 1269.1 | 1263.9 | 1253.6 | 1241.6 | 1224.3 | 1205.4 |
| 147.5° | 1301.8 | 1298.4 | 1294.9 | 1293.2 | 1284.6 | 1279.4 | 1274.3 | 1267.4 | 1253.6 | 1236.4 | 1222.6 |
| 150° | 1308.7 | 1305.3 | 1301.8 | 1298.4 | 1291.5 | 1286.3 | 1284.6 | 1276.0 | 1262.2 | 1248.5 | 1234.7 |
| 152.5° | 1312.2 | 1308.7 | 1307.0 | 1303.6 | 1296.7 | 1291.5 | 1289.8 | 1281.2 | 1269.1 | 1253.6 | 1241.6 |
| 155° | 1312.2 | 1310.4 | 1307.0 | 1305.3 | 1296.7 | 1291.5 | 1289.8 | 1281.2 | 1270.8 | 1257.1 | 1246.7 |
| 157.5° | 1312.2 | 1308.7 | 1307.0 | 1303.6 | 1294.9 | 1291.5 | 1289.8 | 1282.9 | 1274.3 | 1262.2 | 1251.9 |
| 160° | 1307.0 | 1305.3 | 1303.6 | 1300.1 | 1293.2 | 1289.8 | 1289.8 | 1282.9 | 1274.3 | 1263.9 | 1251.9 |
| 162.5° | 1301.8 | 1298.4 | 1296.7 | 1294.9 | 1289.8 | 1288.1 | 1286.3 | 1281.2 | 1272.6 | 1263.9 | 1251.9 |
| 165° | 1293.2 | 1291.5 | 1288.1 | 1286.3 | 1281.2 | 1279.4 | 1277.7 | 1274.3 | 1265.7 | 1260.5 | 1248.5 |
| 167.5° | 1281.2 | 1277.7 | 1276.0 | 1272.6 | 1267.4 | 1267.4 | 1267.4 | 1263.9 | 1258.8 | 1255.3 | 1243.3 |
| 170° | 1265.7 | 1262.2 | 1260.5 | 1258.8 | 1255.3 | 1255.3 | 1255.3 | 1253.6 | 1248.5 | 1246.7 | 1234.7 |
| 172.5° | 1250.2 | 1248.5 | 1246.7 | 1245.0 | 1239.8 | 1239.8 | 1239.8 | 1239.8 | 1236.4 | 1236.4 | 1226.1 |
| 175° | 1229.5 | 1227.8 | 1226.1 | 1226.1 | 1222.6 | 1224.3 | 1224.3 | 1224.3 | 1222.6 | 1226.1 | 1215.7 |
| 177.5° | 1203.7 | 1200.2 | 1203.7 | 1207.1 | 1205.4 | 1207.1 | 1208.8 | 1208.8 | 1207.1 | 1210.6 | 1202.0 |
| 180° | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 |



TEST NUMBER: P303163

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 |
| 2.5° | 1336.3 | 1338.0 | 1336.3 | 1338.0 | 1338.0 | 1338.0 | 1338.0 | 1343.2 | 1348.3 | 1351.8 | 1350.0 |
| 5° | 1331.1 | 1332.8 | 1331.1 | 1332.8 | 1332.8 | 1332.8 | 1332.8 | 1338.0 | 1344.9 | 1346.6 | 1343.2 |
| 7.5° | 1320.8 | 1322.5 | 1322.5 | 1322.5 | 1322.5 | 1322.5 | 1322.5 | 1329.4 | 1334.6 | 1338.0 | 1334.6 |
| 10° | 1307.0 | 1308.7 | 1308.7 | 1308.7 | 1310.4 | 1310.4 | 1310.4 | 1315.6 | 1322.5 | 1324.2 | 1320.8 |
| 12.5° | 1289.8 | 1291.5 | 1291.5 | 1291.5 | 1293.2 | 1293.2 | 1293.2 | 1298.4 | 1305.3 | 1307.0 | 1305.3 |
| 15° | 1269.1 | 1270.8 | 1270.8 | 1270.8 | 1272.6 | 1272.6 | 1272.6 | 1277.7 | 1284.6 | 1286.3 | 1284.6 |
| 17.5° | 1245.0 | 1245.0 | 1245.0 | 1245.0 | 1248.5 | 1250.2 | 1248.5 | 1253.6 | 1260.5 | 1262.2 | 1260.5 |
| 20° | 1215.7 | 1217.5 | 1217.5 | 1219.2 | 1220.9 | 1222.6 | 1222.6 | 1227.8 | 1234.7 | 1236.4 | 1233.0 |
| 22.5° | 1186.5 | 1186.5 | 1188.2 | 1189.9 | 1189.9 | 1191.6 | 1191.6 | 1196.8 | 1203.7 | 1205.4 | 1203.7 |
| 25° | 1153.7 | 1153.7 | 1155.5 | 1158.9 | 1158.9 | 1160.6 | 1160.6 | 1165.8 | 1171.0 | 1172.7 | 1171.0 |
| 27.5° | 1117.6 | 1115.9 | 1119.3 | 1121.0 | 1122.7 | 1126.2 | 1124.5 | 1131.4 | 1136.5 | 1138.2 | 1136.5 |
| 30° | 1081.4 | 1079.7 | 1083.1 | 1084.9 | 1086.6 | 1088.3 | 1088.3 | 1095.2 | 1100.4 | 1102.1 | 1100.4 |
| 32.5° | 1041.8 | 1040.1 | 1043.5 | 1047.0 | 1047.0 | 1048.7 | 1048.7 | 1055.6 | 1059.0 | 1062.5 | 1059.0 |
| 35° | 1000.5 | 997.0 | 1002.2 | 1005.6 | 1003.9 | 1007.4 | 1007.4 | 1014.3 | 1017.7 | 1021.1 | 1017.7 |
| 37.5° | 959.2 | 957.4 | 959.2 | 962.6 | 962.6 | 964.3 | 964.3 | 971.2 | 976.4 | 978.1 | 976.4 |
| 40° | 916.1 | 914.4 | 916.1 | 921.3 | 919.5 | 921.3 | 923.0 | 928.2 | 931.6 | 933.3 | 931.6 |
| 42.5° | 869.6 | 869.6 | 871.3 | 876.5 | 874.8 | 876.5 | 878.2 | 883.4 | 886.8 | 888.6 | 886.8 |
| 45° | 823.1 | 824.8 | 823.1 | 831.7 | 828.3 | 830.0 | 833.4 | 835.2 | 840.3 | 842.1 | 838.6 |
| 47.5° | 776.6 | 780.1 | 778.3 | 785.2 | 783.5 | 783.5 | 785.2 | 790.4 | 793.8 | 795.6 | 793.8 |
| 50° | 728.4 | 731.9 | 730.1 | 738.7 | 735.3 | 737.0 | 738.7 | 742.2 | 743.9 | 745.6 | 745.6 |
| 52.5° | 680.2 | 681.9 | 685.4 | 690.5 | 688.8 | 690.5 | 692.2 | 694.0 | 695.7 | 699.1 | 695.7 |
| 55° | 632.0 | 633.7 | 637.1 | 640.6 | 642.3 | 642.3 | 644.0 | 647.5 | 645.8 | 647.5 | 649.2 |
| 57.5° | 583.8 | 587.2 | 587.2 | 594.1 | 594.1 | 594.1 | 594.1 | 599.3 | 597.5 | 601.0 | 601.0 |
| 60° | 533.8 | 533.8 | 537.3 | 542.4 | 544.2 | 544.2 | 545.9 | 549.3 | 547.6 | 551.0 | 552.8 |
| 62.5° | 483.9 | 487.3 | 490.8 | 494.2 | 497.7 | 494.2 | 499.4 | 501.1 | 502.8 | 504.5 | 502.8 |
| 65° | 430.5 | 433.9 | 437.4 | 440.8 | 440.8 | 440.8 | 442.6 | 449.4 | 449.4 | 456.3 | 454.6 |
| 67.5° | 380.6 | 384.0 | 387.5 | 390.9 | 392.6 | 392.6 | 394.3 | 397.8 | 401.2 | 402.9 | 401.2 |
| 70° | 330.6 | 334.1 | 341.0 | 342.7 | 346.1 | 342.7 | 347.8 | 349.6 | 353.0 | 354.7 | 353.0 |
| 72.5° | 282.4 | 285.9 | 291.0 | 292.7 | 296.2 | 297.9 | 299.6 | 299.6 | 304.8 | 306.5 | 306.5 |
| 75° | 234.2 | 237.6 | 242.8 | 244.5 | 248.0 | 249.7 | 251.4 | 251.4 | 256.6 | 258.3 | 256.6 |
| 77.5° | 187.7 | 189.4 | 194.6 | 196.3 | 199.8 | 201.5 | 203.2 | 203.2 | 208.4 | 210.1 | 208.4 |
| 80° | 141.2 | 142.9 | 148.1 | 149.8 | 153.3 | 153.3 | 155.0 | 156.7 | 160.1 | 161.9 | 160.1 |
| 82.5° | 96.4 | 98.2 | 101.6 | 105.0 | 106.8 | 108.5 | 110.2 | 111.9 | 113.7 | 115.4 | 113.7 |
| 85° | 51.7 | 53.4 | 58.5 | 60.3 | 63.7 | 65.4 | 65.4 | 67.2 | 70.6 | 70.6 | 70.6 |
| 87.5° | 12.1 | 15.5 | 18.9 | 20.7 | 24.1 | 24.1 | 25.8 | 25.8 | 29.3 | 31.0 | 29.3 |
| 90° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 92.5° | 5.2 | 5.2 | 6.9 | 6.9 | 8.6 | 8.6 | 12.1 | 13.8 | 12.1 | 10.3 | 10.3 |
| 95° | 12.1 | 13.8 | 17.2 | 22.4 | 24.1 | 27.6 | 34.4 | 36.2 | 29.3 | 25.8 | 24.1 |
| 97.5° | 22.4 | 27.6 | 36.2 | 49.9 | 55.1 | 62.0 | 70.6 | 67.2 | 55.1 | 46.5 | 43.1 |
| 100° | 39.6 | 51.7 | 72.3 | 98.2 | 108.5 | 117.1 | 118.8 | 110.2 | 91.3 | 75.8 | 67.2 |
| 102.5° | 70.6 | 99.9 | 142.9 | 179.1 | 186.0 | 191.1 | 182.5 | 163.6 | 136.0 | 111.9 | 98.2 |
| 105° | 141.2 | 201.5 | 260.0 | 282.4 | 282.4 | 277.2 | 251.4 | 225.6 | 189.4 | 158.4 | 136.0 |
| 107.5° | 291.0 | 359.9 | 394.3 | 387.5 | 375.4 | 358.2 | 323.7 | 291.0 | 248.0 | 210.1 | 182.5 |
| 110° | 490.8 | 516.6 | 506.3 | 480.4 | 458.1 | 437.4 | 394.3 | 354.7 | 308.2 | 268.6 | 235.9 |



TEST NUMBER: P303163

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 640.6 | 621.6 | 594.1 | 551.0 | 530.4 | 509.7 | 464.9 | 420.2 | 368.5 | 328.9 | 291.0 |
| 115° | 735.3 | 700.9 | 663.0 | 619.9 | 597.5 | 575.1 | 532.1 | 483.9 | 428.8 | 385.7 | 347.8 |
| 117.5° | 804.2 | 762.8 | 723.2 | 681.9 | 657.8 | 635.4 | 594.1 | 542.4 | 490.8 | 444.3 | 406.4 |
| 120° | 859.3 | 816.2 | 776.6 | 735.3 | 714.6 | 694.0 | 650.9 | 599.3 | 549.3 | 508.0 | 466.7 |
| 122.5° | 907.5 | 864.4 | 826.6 | 787.0 | 768.0 | 745.6 | 700.9 | 650.9 | 601.0 | 561.4 | 523.5 |
| 125° | 950.5 | 910.9 | 873.1 | 836.9 | 816.2 | 792.1 | 747.3 | 699.1 | 652.6 | 613.0 | 576.9 |
| 127.5° | 990.2 | 954.0 | 917.8 | 881.7 | 862.7 | 835.2 | 793.8 | 747.3 | 704.3 | 664.7 | 630.3 |
| 130° | 1026.3 | 993.6 | 957.4 | 921.3 | 900.6 | 876.5 | 835.2 | 792.1 | 752.5 | 714.6 | 680.2 |
| 132.5° | 1060.8 | 1028.0 | 993.6 | 955.7 | 936.8 | 914.4 | 876.5 | 835.2 | 797.3 | 764.6 | 730.1 |
| 135° | 1091.7 | 1059.0 | 1024.6 | 988.4 | 967.8 | 948.8 | 912.7 | 874.8 | 838.6 | 805.9 | 771.5 |
| 137.5° | 1119.3 | 1084.9 | 1052.1 | 1017.7 | 998.8 | 981.5 | 947.1 | 910.9 | 879.9 | 848.9 | 814.5 |
| 140° | 1143.4 | 1107.2 | 1076.3 | 1041.8 | 1026.3 | 1012.5 | 976.4 | 947.1 | 917.8 | 886.8 | 857.6 |
| 142.5° | 1162.4 | 1127.9 | 1098.6 | 1067.6 | 1053.9 | 1038.4 | 1007.4 | 979.8 | 952.3 | 924.7 | 895.4 |
| 145° | 1179.6 | 1145.1 | 1119.3 | 1090.0 | 1076.3 | 1064.2 | 1034.9 | 1007.4 | 985.0 | 959.2 | 929.9 |
| 147.5° | 1195.1 | 1164.1 | 1138.2 | 1112.4 | 1100.4 | 1088.3 | 1060.8 | 1036.6 | 1016.0 | 990.2 | 964.3 |
| 150° | 1205.4 | 1179.6 | 1157.2 | 1131.4 | 1122.7 | 1110.7 | 1084.9 | 1064.2 | 1043.5 | 1022.9 | 997.0 |
| 152.5° | 1214.0 | 1191.6 | 1171.0 | 1150.3 | 1141.7 | 1129.6 | 1107.2 | 1090.0 | 1072.8 | 1052.1 | 1028.0 |
| 155° | 1219.2 | 1202.0 | 1183.0 | 1164.1 | 1155.5 | 1146.9 | 1127.9 | 1110.7 | 1095.2 | 1078.0 | 1053.9 |
| 157.5° | 1226.1 | 1210.6 | 1193.3 | 1176.1 | 1169.2 | 1160.6 | 1143.4 | 1129.6 | 1115.9 | 1100.4 | 1079.7 |
| 160° | 1229.5 | 1215.7 | 1200.2 | 1186.5 | 1179.6 | 1174.4 | 1155.5 | 1146.9 | 1134.8 | 1121.0 | 1102.1 |
| 162.5° | 1231.2 | 1219.2 | 1207.1 | 1195.1 | 1189.9 | 1183.0 | 1169.2 | 1160.6 | 1150.3 | 1138.2 | 1122.7 |
| 165° | 1231.2 | 1222.6 | 1210.6 | 1202.0 | 1196.8 | 1189.9 | 1179.6 | 1172.7 | 1164.1 | 1153.7 | 1140.0 |
| 167.5° | 1229.5 | 1222.6 | 1212.3 | 1205.4 | 1202.0 | 1196.8 | 1186.5 | 1181.3 | 1176.1 | 1169.2 | 1155.5 |
| 170° | 1224.3 | 1219.2 | 1212.3 | 1207.1 | 1202.0 | 1198.5 | 1191.6 | 1188.2 | 1184.7 | 1179.6 | 1167.5 |
| 172.5° | 1217.5 | 1214.0 | 1207.1 | 1205.4 | 1202.0 | 1198.5 | 1193.3 | 1193.3 | 1189.9 | 1186.5 | 1177.8 |
| 175° | 1208.8 | 1207.1 | 1202.0 | 1200.2 | 1200.2 | 1196.8 | 1193.3 | 1193.3 | 1195.1 | 1191.6 | 1184.7 |
| 177.5° | 1196.8 | 1196.8 | 1193.3 | 1193.3 | 1193.3 | 1191.6 | 1189.9 | 1193.3 | 1195.1 | 1195.1 | 1189.9 |
| 180° | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 |



TEST NUMBER: P303163

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 |
| 2.5° | 1346.6 | 1341.4 | 1338.0 | 1338.0 | 1338.0 | 1334.6 | 1332.8 | 1334.6 | 1339.7 | 1348.3 | 1339.7 |
| 5° | 1339.7 | 1334.6 | 1332.8 | 1332.8 | 1332.8 | 1329.4 | 1327.7 | 1329.4 | 1334.6 | 1343.2 | 1334.6 |
| 7.5° | 1331.1 | 1325.9 | 1324.2 | 1324.2 | 1322.5 | 1319.1 | 1319.1 | 1319.1 | 1325.9 | 1331.1 | 1324.2 |
| 10° | 1317.3 | 1312.2 | 1310.4 | 1310.4 | 1308.7 | 1305.3 | 1305.3 | 1305.3 | 1312.2 | 1317.3 | 1310.4 |
| 12.5° | 1300.1 | 1294.9 | 1293.2 | 1293.2 | 1291.5 | 1288.1 | 1288.1 | 1288.1 | 1294.9 | 1298.4 | 1293.2 |
| 15° | 1279.4 | 1274.3 | 1272.6 | 1272.6 | 1270.8 | 1267.4 | 1267.4 | 1267.4 | 1274.3 | 1276.0 | 1270.8 |
| 17.5° | 1255.3 | 1250.2 | 1248.5 | 1248.5 | 1245.0 | 1243.3 | 1241.6 | 1241.6 | 1248.5 | 1250.2 | 1245.0 |
| 20° | 1229.5 | 1222.6 | 1222.6 | 1220.9 | 1217.5 | 1215.7 | 1215.7 | 1214.0 | 1224.3 | 1220.9 | 1217.5 |
| 22.5° | 1198.5 | 1193.3 | 1193.3 | 1191.6 | 1188.2 | 1186.5 | 1184.7 | 1184.7 | 1193.3 | 1186.5 | 1183.0 |
| 25° | 1167.5 | 1160.6 | 1162.4 | 1158.9 | 1157.2 | 1153.7 | 1152.0 | 1152.0 | 1160.6 | 1152.0 | 1150.3 |
| 27.5° | 1134.8 | 1127.9 | 1124.5 | 1124.5 | 1122.7 | 1117.6 | 1115.9 | 1115.9 | 1124.5 | 1115.9 | 1114.1 |
| 30° | 1095.2 | 1091.7 | 1088.3 | 1088.3 | 1083.1 | 1081.4 | 1079.7 | 1079.7 | 1086.6 | 1078.0 | 1076.3 |
| 32.5° | 1057.3 | 1052.1 | 1050.4 | 1048.7 | 1047.0 | 1041.8 | 1040.1 | 1041.8 | 1047.0 | 1036.6 | 1034.9 |
| 35° | 1016.0 | 1012.5 | 1010.8 | 1007.4 | 1005.6 | 1002.2 | 1000.5 | 1002.2 | 1003.9 | 995.3 | 991.9 |
| 37.5° | 971.2 | 969.5 | 967.8 | 964.3 | 962.6 | 960.9 | 959.2 | 960.9 | 960.9 | 952.3 | 948.8 |
| 40° | 928.2 | 924.7 | 923.0 | 921.3 | 921.3 | 917.8 | 916.1 | 919.5 | 916.1 | 912.7 | 905.8 |
| 42.5° | 885.1 | 879.9 | 879.9 | 876.5 | 876.5 | 873.1 | 873.1 | 874.8 | 871.3 | 867.9 | 861.0 |
| 45° | 838.6 | 836.9 | 835.2 | 831.7 | 831.7 | 828.3 | 828.3 | 830.0 | 824.8 | 821.4 | 816.2 |
| 47.5° | 792.1 | 792.1 | 788.7 | 785.2 | 787.0 | 785.2 | 783.5 | 783.5 | 780.1 | 776.6 | 771.5 |
| 50° | 745.6 | 743.9 | 738.7 | 740.5 | 742.2 | 737.0 | 738.7 | 733.6 | 733.6 | 730.1 | 723.2 |
| 52.5° | 697.4 | 695.7 | 694.0 | 692.2 | 694.0 | 690.5 | 690.5 | 687.1 | 685.4 | 681.9 | 676.7 |
| 55° | 650.9 | 649.2 | 645.8 | 645.8 | 647.5 | 642.3 | 642.3 | 638.9 | 637.1 | 633.7 | 628.5 |
| 57.5° | 602.7 | 601.0 | 599.3 | 597.5 | 599.3 | 595.8 | 594.1 | 592.4 | 588.9 | 585.5 | 582.0 |
| 60° | 554.5 | 552.8 | 549.3 | 547.6 | 549.3 | 545.9 | 544.2 | 542.4 | 540.7 | 535.5 | 532.1 |
| 62.5° | 504.5 | 501.1 | 501.1 | 499.4 | 501.1 | 497.7 | 495.9 | 494.2 | 490.8 | 487.3 | 487.3 |
| 65° | 454.6 | 452.9 | 452.9 | 447.7 | 451.2 | 447.7 | 440.8 | 440.8 | 437.4 | 433.9 | 433.9 |
| 67.5° | 401.2 | 399.5 | 399.5 | 397.8 | 397.8 | 397.8 | 396.1 | 392.6 | 387.5 | 387.5 | 387.5 |
| 70° | 353.0 | 351.3 | 351.3 | 347.8 | 349.6 | 347.8 | 346.1 | 342.7 | 339.2 | 339.2 | 339.2 |
| 72.5° | 303.1 | 301.4 | 301.4 | 299.6 | 301.4 | 299.6 | 297.9 | 294.5 | 291.0 | 292.7 | 291.0 |
| 75° | 254.9 | 253.1 | 254.9 | 251.4 | 253.1 | 251.4 | 249.7 | 246.2 | 244.5 | 246.2 | 244.5 |
| 77.5° | 206.6 | 206.6 | 206.6 | 206.6 | 204.9 | 203.2 | 201.5 | 199.8 | 199.8 | 199.8 | 196.3 |
| 80° | 160.1 | 158.4 | 158.4 | 158.4 | 158.4 | 156.7 | 155.0 | 153.3 | 153.3 | 153.3 | 149.8 |
| 82.5° | 113.7 | 113.7 | 113.7 | 113.7 | 111.9 | 113.7 | 108.5 | 106.8 | 106.8 | 106.8 | 103.3 |
| 85° | 68.9 | 68.9 | 70.6 | 68.9 | 68.9 | 67.2 | 63.7 | 62.0 | 62.0 | 60.3 | 58.5 |
| 87.5° | 31.0 | 27.6 | 27.6 | 27.6 | 25.8 | 25.8 | 25.8 | 22.4 | 22.4 | 22.4 | 18.9 |
| 90° | 3.4 | 5.2 | 5.2 | 5.2 | 5.2 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 8.6 |
| 92.5° | 15.5 | 20.7 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 |
| 95° | 27.6 | 31.0 | 37.9 | 41.3 | 44.8 | 48.2 | 48.2 | 49.9 | 48.2 | 46.5 | 46.5 |
| 97.5° | 41.3 | 46.5 | 48.2 | 49.9 | 53.4 | 60.3 | 65.4 | 70.6 | 74.0 | 75.8 | 75.8 |
| 100° | 63.7 | 62.0 | 65.4 | 70.6 | 70.6 | 68.9 | 74.0 | 79.2 | 84.4 | 89.5 | 91.3 |
| 102.5° | 91.3 | 84.4 | 82.7 | 84.4 | 87.8 | 94.7 | 91.3 | 93.0 | 94.7 | 98.2 | 103.3 |
| 105° | 124.0 | 113.7 | 106.8 | 105.0 | 106.8 | 110.2 | 117.1 | 118.8 | 113.7 | 115.4 | 117.1 |
| 107.5° | 161.9 | 146.4 | 136.0 | 132.6 | 130.9 | 130.9 | 134.3 | 141.2 | 146.4 | 144.6 | 141.2 |
| 110° | 208.4 | 184.3 | 170.5 | 163.6 | 160.1 | 156.7 | 156.7 | 160.1 | 165.3 | 172.2 | 177.4 |



TEST NUMBER: P303163

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 260.0 | 230.7 | 210.1 | 199.8 | 194.6 | 182.5 | 180.8 | 182.5 | 184.3 | 189.4 | 196.3 |
| 115° | 315.1 | 279.0 | 253.1 | 241.1 | 234.2 | 215.3 | 206.6 | 204.9 | 206.6 | 208.4 | 211.8 |
| 117.5° | 370.2 | 334.1 | 301.4 | 287.6 | 277.2 | 254.9 | 239.4 | 234.2 | 229.0 | 230.7 | 230.7 |
| 120° | 430.5 | 387.5 | 356.5 | 337.5 | 327.2 | 299.6 | 279.0 | 266.9 | 256.6 | 253.1 | 251.4 |
| 122.5° | 485.6 | 447.7 | 409.8 | 396.1 | 378.8 | 347.8 | 325.5 | 306.5 | 291.0 | 280.7 | 275.5 |
| 125° | 537.3 | 501.1 | 466.7 | 451.2 | 433.9 | 399.5 | 375.4 | 353.0 | 332.3 | 318.6 | 304.8 |
| 127.5° | 594.1 | 556.2 | 521.8 | 508.0 | 490.8 | 456.3 | 427.1 | 406.4 | 384.0 | 363.3 | 344.4 |
| 130° | 640.6 | 607.9 | 575.1 | 561.4 | 545.9 | 513.2 | 483.9 | 459.8 | 432.2 | 413.3 | 392.6 |
| 132.5° | 692.2 | 657.8 | 626.8 | 611.3 | 595.8 | 564.8 | 537.3 | 513.2 | 487.3 | 470.1 | 447.7 |
| 135° | 738.7 | 706.0 | 673.3 | 661.2 | 644.0 | 616.5 | 590.6 | 564.8 | 540.7 | 520.0 | 501.1 |
| 137.5° | 783.5 | 750.8 | 721.5 | 707.7 | 692.2 | 666.4 | 642.3 | 623.4 | 595.8 | 575.1 | 554.5 |
| 140° | 824.8 | 793.8 | 766.3 | 752.5 | 740.5 | 712.9 | 692.2 | 673.3 | 647.5 | 628.5 | 606.1 |
| 142.5° | 864.4 | 835.2 | 811.1 | 797.3 | 783.5 | 757.7 | 737.0 | 719.8 | 699.1 | 678.5 | 659.5 |
| 145° | 902.3 | 873.1 | 850.7 | 838.6 | 824.8 | 800.7 | 781.8 | 764.6 | 750.8 | 728.4 | 709.5 |
| 147.5° | 938.5 | 909.2 | 888.6 | 878.2 | 866.2 | 843.8 | 826.6 | 809.3 | 797.3 | 776.6 | 759.4 |
| 150° | 971.2 | 945.4 | 926.4 | 916.1 | 904.1 | 883.4 | 867.9 | 852.4 | 842.1 | 821.4 | 809.3 |
| 152.5° | 1003.9 | 979.8 | 962.6 | 952.3 | 941.9 | 921.3 | 905.8 | 890.3 | 885.1 | 864.4 | 854.1 |
| 155° | 1033.2 | 1009.1 | 993.6 | 985.0 | 976.4 | 955.7 | 941.9 | 926.4 | 923.0 | 905.8 | 893.7 |
| 157.5° | 1060.8 | 1038.4 | 1022.9 | 1016.0 | 1007.4 | 988.4 | 976.4 | 962.6 | 960.9 | 945.4 | 935.0 |
| 160° | 1084.9 | 1064.2 | 1050.4 | 1041.8 | 1034.9 | 1019.4 | 1007.4 | 997.0 | 993.6 | 983.3 | 972.9 |
| 162.5° | 1107.2 | 1090.0 | 1076.3 | 1069.4 | 1064.2 | 1048.7 | 1038.4 | 1028.0 | 1026.3 | 1019.4 | 1007.4 |
| 165° | 1126.2 | 1109.0 | 1098.6 | 1093.5 | 1088.3 | 1074.5 | 1065.9 | 1057.3 | 1055.6 | 1052.1 | 1040.1 |
| 167.5° | 1143.4 | 1127.9 | 1119.3 | 1114.1 | 1109.0 | 1098.6 | 1091.7 | 1084.9 | 1084.9 | 1081.4 | 1071.1 |
| 170° | 1157.2 | 1143.4 | 1136.5 | 1133.1 | 1129.6 | 1119.3 | 1112.4 | 1107.2 | 1107.2 | 1109.0 | 1096.9 |
| 172.5° | 1169.2 | 1158.9 | 1152.0 | 1146.9 | 1145.1 | 1138.2 | 1133.1 | 1127.9 | 1129.6 | 1133.1 | 1122.7 |
| 175° | 1179.6 | 1169.2 | 1164.1 | 1162.4 | 1160.6 | 1153.7 | 1150.3 | 1148.6 | 1150.3 | 1155.5 | 1146.9 |
| 177.5° | 1186.5 | 1179.6 | 1176.1 | 1174.4 | 1174.4 | 1167.5 | 1165.8 | 1165.8 | 1167.5 | 1176.1 | 1165.8 |
| 180° | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 |



TEST NUMBER: P303163

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 | 1341.4 |
| 2.5° | 1343.2 | 1341.4 | 1339.7 | 1338.0 | 1336.3 | 1334.6 | 1331.1 | 1332.8 |
| 5° | 1336.3 | 1334.6 | 1332.8 | 1331.1 | 1331.1 | 1331.1 | 1329.4 | 1331.1 |
| 7.5° | 1325.9 | 1324.2 | 1322.5 | 1320.8 | 1320.8 | 1322.5 | 1320.8 | 1324.2 |
| 10° | 1312.2 | 1308.7 | 1308.7 | 1305.3 | 1305.3 | 1305.3 | 1305.3 | 1307.0 |
| 12.5° | 1293.2 | 1289.8 | 1289.8 | 1286.3 | 1286.3 | 1286.3 | 1288.1 | 1289.8 |
| 15° | 1270.8 | 1269.1 | 1267.4 | 1265.7 | 1265.7 | 1267.4 | 1265.7 | 1267.4 |
| 17.5° | 1245.0 | 1241.6 | 1241.6 | 1239.8 | 1239.8 | 1238.1 | 1238.1 | 1239.8 |
| 20° | 1214.0 | 1210.6 | 1210.6 | 1208.8 | 1207.1 | 1207.1 | 1207.1 | 1208.8 |
| 22.5° | 1179.6 | 1177.8 | 1176.1 | 1172.7 | 1174.4 | 1174.4 | 1172.7 | 1176.1 |
| 25° | 1145.1 | 1143.4 | 1141.7 | 1140.0 | 1140.0 | 1138.2 | 1136.5 | 1138.2 |
| 27.5° | 1110.7 | 1107.2 | 1105.5 | 1103.8 | 1102.1 | 1100.4 | 1098.6 | 1100.4 |
| 30° | 1072.8 | 1065.9 | 1067.6 | 1065.9 | 1062.5 | 1060.8 | 1059.0 | 1060.8 |
| 32.5° | 1031.5 | 1028.0 | 1024.6 | 1024.6 | 1021.1 | 1019.4 | 1017.7 | 1019.4 |
| 35° | 990.2 | 985.0 | 983.3 | 983.3 | 979.8 | 978.1 | 976.4 | 978.1 |
| 37.5° | 947.1 | 941.9 | 940.2 | 940.2 | 936.8 | 933.3 | 933.3 | 933.3 |
| 40° | 902.3 | 897.2 | 897.2 | 897.2 | 893.7 | 890.3 | 890.3 | 890.3 |
| 42.5° | 857.6 | 854.1 | 852.4 | 852.4 | 848.9 | 843.8 | 843.8 | 845.5 |
| 45° | 812.8 | 809.3 | 807.6 | 805.9 | 804.2 | 799.0 | 799.0 | 799.0 |
| 47.5° | 764.6 | 764.6 | 761.1 | 761.1 | 757.7 | 756.0 | 754.2 | 754.2 |
| 50° | 721.5 | 718.1 | 714.6 | 714.6 | 712.9 | 707.7 | 707.7 | 707.7 |
| 52.5° | 673.3 | 671.6 | 668.1 | 668.1 | 664.7 | 661.2 | 661.2 | 661.2 |
| 55° | 626.8 | 625.1 | 621.6 | 621.6 | 618.2 | 616.5 | 614.8 | 614.8 |
| 57.5° | 578.6 | 578.6 | 575.1 | 575.1 | 570.0 | 570.0 | 568.3 | 571.7 |
| 60° | 528.7 | 530.4 | 526.9 | 525.2 | 521.8 | 521.8 | 521.8 | 525.2 |
| 62.5° | 483.9 | 482.2 | 478.7 | 478.7 | 477.0 | 475.3 | 477.0 | 477.0 |
| 65° | 432.2 | 428.8 | 427.1 | 427.1 | 425.3 | 423.6 | 421.9 | 425.3 |
| 67.5° | 384.0 | 382.3 | 378.8 | 378.8 | 378.8 | 377.1 | 377.1 | 378.8 |
| 70° | 335.8 | 334.1 | 332.3 | 332.3 | 330.6 | 330.6 | 330.6 | 332.3 |
| 72.5° | 287.6 | 287.6 | 287.6 | 285.9 | 284.1 | 282.4 | 285.9 | 284.1 |
| 75° | 241.1 | 239.4 | 239.4 | 239.4 | 237.6 | 235.9 | 234.2 | 237.6 |
| 77.5° | 194.6 | 192.9 | 192.9 | 192.9 | 191.1 | 189.4 | 189.4 | 191.1 |
| 80° | 148.1 | 146.4 | 146.4 | 146.4 | 144.6 | 144.6 | 142.9 | 144.6 |
| 82.5° | 99.9 | 99.9 | 99.9 | 99.9 | 96.4 | 98.2 | 98.2 | 96.4 |
| 85° | 56.8 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 53.4 | 55.1 |
| 87.5° | 17.2 | 17.2 | 17.2 | 18.9 | 17.2 | 18.9 | 18.9 | 18.9 |
| 90° | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 10.3 | 10.3 |
| 92.5° | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 |
| 95° | 44.8 | 46.5 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 |
| 97.5° | 75.8 | 75.8 | 75.8 | 75.8 | 74.0 | 72.3 | 72.3 | 72.3 |
| 100° | 94.7 | 96.4 | 98.2 | 98.2 | 99.9 | 99.9 | 99.9 | 99.9 |
| 102.5° | 106.8 | 108.5 | 108.5 | 110.2 | 111.9 | 111.9 | 111.9 | 111.9 |
| 105° | 118.8 | 118.8 | 120.5 | 122.3 | 125.7 | 127.4 | 129.2 | 129.2 |
| 107.5° | 139.5 | 139.5 | 141.2 | 141.2 | 141.2 | 142.9 | 142.9 | 142.9 |
| 110° | 175.6 | 168.8 | 168.8 | 167.0 | 165.3 | 165.3 | 165.3 | 165.3 |



TEST NUMBER: P303163

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 201.5 | 203.2 | 204.9 | 206.6 | 204.9 | 201.5 | 201.5 | 201.5 |
| 115° | 218.7 | 222.1 | 225.6 | 227.3 | 229.0 | 229.0 | 230.7 | 230.7 |
| 117.5° | 235.9 | 239.4 | 241.1 | 242.8 | 246.2 | 246.2 | 249.7 | 249.7 |
| 120° | 253.1 | 256.6 | 256.6 | 258.3 | 260.0 | 261.7 | 263.5 | 263.5 |
| 122.5° | 273.8 | 275.5 | 275.5 | 275.5 | 277.2 | 277.2 | 279.0 | 279.0 |
| 125° | 299.6 | 296.2 | 294.5 | 296.2 | 294.5 | 294.5 | 294.5 | 294.5 |
| 127.5° | 332.3 | 325.5 | 323.7 | 322.0 | 318.6 | 315.1 | 315.1 | 315.1 |
| 130° | 375.4 | 365.1 | 359.9 | 358.2 | 353.0 | 346.1 | 346.1 | 344.4 |
| 132.5° | 425.3 | 413.3 | 406.4 | 404.7 | 396.1 | 387.5 | 384.0 | 382.3 |
| 135° | 483.9 | 470.1 | 461.5 | 459.8 | 446.0 | 437.4 | 433.9 | 432.2 |
| 137.5° | 535.5 | 521.8 | 516.6 | 513.2 | 504.5 | 495.9 | 490.8 | 489.0 |
| 140° | 588.9 | 576.9 | 568.3 | 564.8 | 554.5 | 549.3 | 544.2 | 544.2 |
| 142.5° | 642.3 | 630.3 | 621.6 | 618.2 | 609.6 | 602.7 | 597.5 | 597.5 |
| 145° | 694.0 | 681.9 | 673.3 | 669.9 | 661.2 | 654.4 | 650.9 | 649.2 |
| 147.5° | 745.6 | 733.6 | 726.7 | 723.2 | 714.6 | 707.7 | 702.6 | 702.6 |
| 150° | 795.6 | 783.5 | 776.6 | 769.7 | 764.6 | 757.7 | 754.2 | 752.5 |
| 152.5° | 842.1 | 831.7 | 824.8 | 818.0 | 812.8 | 809.3 | 804.2 | 804.2 |
| 155° | 883.4 | 874.8 | 867.9 | 862.7 | 859.3 | 854.1 | 852.4 | 852.4 |
| 157.5° | 926.4 | 916.1 | 910.9 | 905.8 | 902.3 | 900.6 | 897.2 | 897.2 |
| 160° | 966.0 | 955.7 | 952.3 | 947.1 | 943.7 | 940.2 | 938.5 | 940.2 |
| 162.5° | 1003.9 | 997.0 | 991.9 | 986.7 | 985.0 | 981.5 | 979.8 | 979.8 |
| 165° | 1036.6 | 1029.8 | 1026.3 | 1022.9 | 1019.4 | 1017.7 | 1016.0 | 1017.7 |
| 167.5° | 1067.6 | 1060.8 | 1057.3 | 1053.9 | 1052.1 | 1052.1 | 1050.4 | 1050.4 |
| 170° | 1095.2 | 1090.0 | 1088.3 | 1083.1 | 1081.4 | 1081.4 | 1079.7 | 1079.7 |
| 172.5° | 1121.0 | 1117.6 | 1115.9 | 1112.4 | 1112.4 | 1112.4 | 1110.7 | 1112.4 |
| 175° | 1146.9 | 1143.4 | 1141.7 | 1138.2 | 1138.2 | 1136.5 | 1134.8 | 1136.5 |
| 177.5° | 1169.2 | 1167.5 | 1164.1 | 1162.4 | 1160.6 | 1158.9 | 1155.5 | 1157.2 |
| 180° | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 |

(END OF REPORT)