

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: P303174

Luminaire Tested: **CTW-F-5050-50L935-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303174
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-5050-50L935-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 5000 LUMEN PACKAGE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

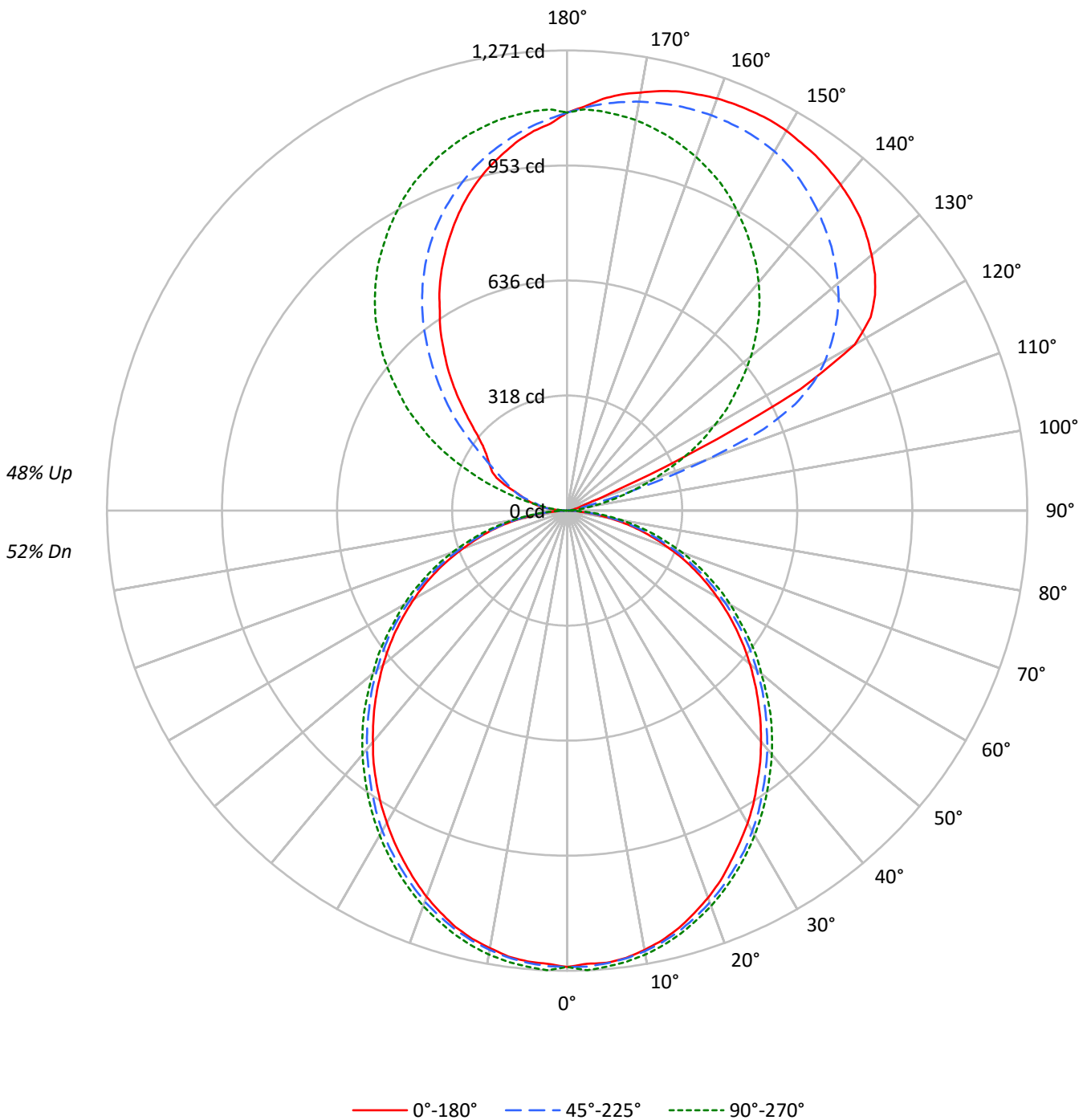
Lumens per Lamp: N/A
Luminaire Lumens: 6485.7 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
Input Voltage (V): 120
Input Current (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: P303174
CATALOG NUMBER: CTW-F-5050-50L935-UNV-STD-6

Luminous Intensity Polar Plot





TEST NUMBER: P303174

CATALOG NUMBER: CTW-F-5050-50L935-UNV-STD-6

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°	18091	18091	18091
5°	18066	18216	18011
10°	17956	18144	17880
15°	17730	17980	17693
20°	17378	17752	17338
25°	16935	17465	16914
30°	16522	17165	16501
35°	16043	16813	16089
40°	15606	16477	15631
45°	15151	16122	15231
50°	14707	15629	14821
55°	14252	15286	14445
60°	13752	14978	14013
65°	13200	14562	13553
70°	12412	14145	12845
75°	11456	13536	12316
80°	9819	12596	11100
85°	6175	11066	8085



TEST NUMBER: P303174

CATALOG NUMBER: CTW-F-5050-50L935-UNV-STD-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	1.8
10°-20°	337.1	5.2
20°-30°	499.0	7.7
30°-40°	586.0	9.0
40°-50°	594.2	9.2
50°-60°	530.0	8.2
60°-70°	406.3	6.3
70°-80°	239.2	3.7
80°-90°	64.5	1.0
90°-100°	31.3	0.5
100°-110°	135.0	2.1
110°-120°	378.4	5.8
120°-130°	547.0	8.4
130°-140°	590.5	9.1
140°-150°	561.6	8.7
150°-160°	460.9	7.1
160°-170°	301.3	4.6
170°-180°	104.4	1.6
0°-30°	955.1	14.7
0°-40°	1541.1	23.8
0°-60°	2665.3	41.1
0°-90°	3375.2	52.0
90°-120°	544.7	8.4
90°-150°	2243.9	34.6
90°-180°	3111.0	48.0
0°-180°	6485.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1260	1260	1260	1260	1260	
5°	1254	1255	1264	1254	1250	119
15°	1193	1201	1210	1197	1191	336
25°	1069	1091	1103	1089	1068	493
35°	916	943	960	942	918	574
45°	746	774	794	774	750	576
55°	570	594	611	598	577	509
65°	389	407	429	413	399	384
75°	207	221	244	227	222	218
85°	38	49	67	56	49	48
90°	1	1	1	6	9	2
95°	8	9	23	43	39	8
105°	34	98	152	106	119	40
115°	391	695	366	190	216	432
125°	1038	908	567	314	272	921
135°	1144	1032	748	506	412	883
145°	1197	1118	887	699	611	750
155°	1215	1158	1000	860	793	562
165°	1198	1158	1072	983	945	339
175°	1142	1128	1107	1068	1053	110
180°	1099	1099	1099	1099	1099	



TEST NUMBER: P303174

CATALOG NUMBER: CTW-F-5050-50L935-UNV-STD-6

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5
2.5°	1252.8	1251.5	1255.3	1257.9	1257.9	1259.2	1261.8	1263.1	1261.8	1267.0	1260.5
5°	1254.0	1251.5	1252.8	1252.8	1251.5	1252.8	1255.3	1256.6	1256.6	1261.8	1255.3
7.5°	1246.3	1245.0	1246.3	1245.0	1243.7	1245.0	1246.3	1248.9	1247.6	1252.8	1247.6
10°	1232.1	1230.8	1230.8	1230.8	1229.5	1230.8	1233.4	1236.0	1236.0	1239.8	1236.0
12.5°	1215.3	1212.7	1214.0	1215.3	1212.7	1214.0	1216.6	1219.2	1219.2	1224.3	1220.5
15°	1193.3	1192.1	1194.6	1197.2	1194.6	1194.6	1197.2	1198.5	1199.8	1203.7	1201.1
17.5°	1166.2	1166.2	1168.8	1172.7	1170.1	1170.1	1172.7	1175.3	1175.3	1177.8	1177.8
20°	1137.8	1136.5	1139.1	1141.7	1141.7	1140.4	1144.3	1146.9	1148.1	1150.7	1152.0
22.5°	1106.8	1104.2	1105.5	1109.4	1108.1	1108.1	1109.4	1114.6	1117.1	1119.7	1123.6
25°	1069.4	1069.4	1071.9	1074.5	1074.5	1074.5	1075.8	1079.7	1083.6	1087.4	1091.3
27.5°	1033.2	1033.2	1034.5	1039.7	1039.7	1038.4	1040.9	1047.4	1051.3	1053.9	1059.0
30°	997.0	993.2	997.0	1000.9	1003.5	1000.9	1004.8	1010.0	1012.5	1016.4	1022.9
32.5°	958.3	957.0	957.0	962.2	964.8	963.5	964.8	971.2	976.4	977.7	984.1
35°	915.7	917.0	917.0	920.8	923.4	922.1	923.4	929.9	935.0	936.3	942.8
37.5°	875.6	875.6	875.6	879.5	882.1	882.1	882.1	888.6	893.7	897.6	901.5
40°	833.0	834.3	833.0	836.9	840.8	839.5	840.8	845.9	852.4	856.3	860.1
42.5°	790.4	789.1	789.1	793.0	798.1	796.9	798.1	803.3	808.5	813.6	816.2
45°	746.5	743.9	746.5	750.4	754.2	755.5	754.2	759.4	764.6	768.4	773.6
47.5°	702.6	701.3	701.3	705.2	709.0	709.0	710.3	714.2	720.7	723.2	729.7
50°	658.7	658.7	657.4	661.2	665.1	666.4	666.4	669.0	675.5	680.6	683.2
52.5°	614.8	614.8	614.8	616.0	618.6	622.5	622.5	625.1	629.0	635.4	639.3
55°	569.6	570.8	569.6	570.8	574.7	577.3	577.3	579.9	583.8	590.2	594.1
57.5°	524.3	525.6	524.3	525.6	529.5	530.8	532.1	534.7	537.3	542.4	546.3
60°	479.1	480.4	479.1	480.4	484.3	486.9	485.6	489.5	492.1	494.6	499.8
62.5°	433.9	436.5	435.2	437.8	439.1	441.7	440.4	444.3	446.9	449.4	454.6
65°	388.7	391.3	390.0	392.6	392.6	395.2	393.9	397.8	400.4	402.9	406.8
67.5°	343.5	346.1	344.8	346.1	347.4	350.0	347.4	352.6	355.2	356.5	360.3
70°	295.8	298.3	297.0	298.3	299.6	300.9	299.6	303.5	307.4	308.7	311.3
72.5°	250.6	253.1	253.1	254.4	254.4	257.0	257.0	257.0	259.6	263.5	264.8
75°	206.6	209.2	209.2	209.2	209.2	211.8	211.8	214.4	215.7	218.3	220.8
77.5°	162.7	165.3	165.3	165.3	165.3	167.9	167.9	170.5	171.8	174.4	176.9
80°	118.8	121.4	122.7	122.7	122.7	124.0	124.0	126.6	127.9	130.4	133.0
82.5°	77.5	78.8	80.1	78.8	80.1	81.4	83.9	83.9	85.2	87.8	90.4
85°	37.5	38.7	40.0	40.0	40.0	41.3	41.3	43.9	45.2	46.5	49.1
87.5°	5.2	6.5	6.5	6.5	6.5	7.7	7.7	7.7	9.0	9.0	11.6
90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
92.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
95°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	9.0
97.5°	11.6	11.6	12.9	11.6	12.9	12.9	12.9	12.9	14.2	14.2	16.8
100°	18.1	18.1	18.1	18.1	18.1	18.1	19.4	19.4	22.0	23.2	27.1
102.5°	24.5	24.5	24.5	25.8	25.8	27.1	27.1	28.4	32.3	37.5	49.1
105°	33.6	33.6	34.9	34.9	36.2	37.5	38.7	43.9	51.7	67.2	98.2
107.5°	46.5	47.8	49.1	50.4	54.2	58.1	62.0	76.2	99.4	147.2	219.6
110°	73.6	74.9	80.1	85.2	98.2	111.1	124.0	171.8	241.5	329.3	409.4



TEST NUMBER: P303174

CATALOG NUMBER: CTW-F-5050-50L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	153.7	158.9	162.7	193.7	235.1	271.2	304.8	390.0	481.7	556.6	587.6
115°	391.3	400.4	406.8	467.5	532.1	573.4	599.3	657.4	694.8	706.5	694.8
117.5°	727.1	731.0	740.0	762.0	791.7	805.9	808.5	817.5	808.5	790.4	767.2
120°	917.0	917.0	911.8	913.1	909.2	909.2	904.0	889.8	870.5	848.5	821.4
122.5°	994.5	990.6	984.1	979.0	967.3	964.8	957.0	938.9	918.3	896.3	866.6
125°	1038.4	1034.5	1029.3	1022.9	1010.0	1004.8	997.0	979.0	958.3	935.0	907.9
127.5°	1071.9	1068.1	1062.9	1056.4	1044.8	1039.7	1030.6	1012.5	991.9	969.9	945.4
130°	1097.8	1096.5	1090.0	1086.2	1074.5	1069.4	1060.3	1042.2	1022.9	1000.9	976.4
132.5°	1122.3	1119.7	1113.3	1110.7	1100.4	1093.9	1086.2	1069.4	1050.0	1028.0	1004.8
135°	1144.3	1141.7	1133.9	1131.4	1122.3	1114.6	1108.1	1092.6	1075.8	1053.9	1031.9
137.5°	1161.1	1157.2	1152.0	1149.4	1140.4	1132.6	1127.5	1113.3	1096.5	1075.8	1055.2
140°	1175.3	1171.4	1167.5	1164.9	1157.2	1150.7	1144.3	1130.1	1115.9	1099.1	1078.4
142.5°	1186.9	1184.3	1180.4	1176.6	1168.8	1163.6	1158.5	1146.9	1133.9	1117.1	1099.1
145°	1197.2	1194.6	1190.8	1188.2	1179.1	1175.3	1170.1	1159.8	1148.1	1131.4	1118.4
147.5°	1203.7	1202.4	1199.8	1197.2	1188.2	1184.3	1179.1	1171.4	1159.8	1144.3	1132.6
150°	1211.4	1208.8	1206.3	1205.0	1195.9	1192.1	1189.5	1180.4	1170.1	1155.9	1145.6
152.5°	1215.3	1212.7	1210.1	1208.8	1199.8	1197.2	1194.6	1186.9	1175.3	1162.3	1153.3
155°	1215.3	1214.0	1211.4	1210.1	1201.1	1197.2	1195.9	1188.2	1177.8	1167.5	1158.5
157.5°	1214.0	1211.4	1210.1	1207.6	1199.8	1197.2	1194.6	1188.2	1179.1	1170.1	1161.1
160°	1211.4	1208.8	1207.6	1205.0	1198.5	1195.9	1194.6	1188.2	1181.7	1172.7	1162.3
162.5°	1205.0	1203.7	1202.4	1201.1	1195.9	1193.3	1192.1	1186.9	1179.1	1171.4	1161.1
165°	1198.5	1195.9	1194.6	1192.1	1186.9	1186.9	1185.6	1181.7	1174.0	1170.1	1158.5
167.5°	1186.9	1183.0	1183.0	1179.1	1175.3	1175.3	1174.0	1172.7	1166.2	1163.6	1153.3
170°	1172.7	1171.4	1168.8	1167.5	1164.9	1164.9	1163.6	1162.3	1157.2	1157.2	1146.9
172.5°	1159.8	1158.5	1157.2	1154.6	1150.7	1150.7	1150.7	1150.7	1146.9	1146.9	1137.8
175°	1141.7	1139.1	1139.1	1137.8	1135.2	1136.5	1136.5	1136.5	1133.9	1136.5	1127.5
177.5°	1117.1	1114.6	1117.1	1119.7	1118.4	1119.7	1121.0	1121.0	1118.4	1122.3	1114.6
180°	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1



TEST NUMBER: P303174

CATALOG NUMBER: CTW-F-5050-50L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5
2.5°	1255.3	1256.6	1255.3	1256.6	1257.9	1256.6	1257.9	1263.1	1268.3	1270.8	1268.3
5°	1250.2	1251.5	1250.2	1251.5	1252.8	1251.5	1252.8	1256.6	1263.1	1264.4	1263.1
7.5°	1242.4	1243.7	1242.4	1243.7	1243.7	1243.7	1243.7	1248.9	1254.0	1256.6	1254.0
10°	1229.5	1230.8	1229.5	1232.1	1232.1	1232.1	1232.1	1237.3	1242.4	1245.0	1241.1
12.5°	1214.0	1215.3	1214.0	1216.6	1215.3	1216.6	1217.9	1221.8	1226.9	1229.5	1226.9
15°	1193.3	1195.9	1194.6	1197.2	1197.2	1197.2	1197.2	1202.4	1207.6	1210.1	1207.6
17.5°	1170.1	1171.4	1171.4	1174.0	1174.0	1174.0	1175.3	1180.4	1184.3	1186.9	1184.3
20°	1144.3	1146.9	1146.9	1148.1	1148.1	1149.4	1150.7	1154.6	1159.8	1162.3	1159.8
22.5°	1115.9	1118.4	1119.7	1119.7	1119.7	1121.0	1122.3	1126.2	1132.6	1133.9	1131.4
25°	1086.2	1086.2	1088.7	1088.7	1090.0	1091.3	1092.6	1095.2	1101.6	1102.9	1101.6
27.5°	1053.9	1052.6	1053.9	1056.4	1056.4	1059.0	1060.3	1062.9	1068.1	1070.7	1068.1
30°	1017.7	1017.7	1020.3	1021.6	1021.6	1022.9	1025.5	1028.0	1033.2	1035.8	1033.2
32.5°	981.5	980.2	984.1	984.1	985.4	986.7	988.0	991.9	995.7	998.3	997.0
35°	944.1	940.2	945.4	945.4	946.7	949.3	949.3	951.8	957.0	959.6	957.0
37.5°	905.3	901.5	905.3	907.9	906.6	909.2	910.5	913.1	918.3	919.5	919.5
40°	865.3	861.4	865.3	866.6	866.6	867.9	870.5	871.8	875.6	879.5	876.9
42.5°	821.4	820.1	822.7	825.3	825.3	826.6	827.9	829.1	833.0	836.9	834.3
45°	777.5	777.5	780.1	782.6	783.9	783.9	785.2	786.5	789.1	794.3	790.4
47.5°	733.6	733.6	736.2	737.4	737.4	738.7	741.3	741.3	746.5	746.5	747.8
50°	687.1	689.7	692.2	696.1	693.5	694.8	697.4	697.4	700.0	700.0	703.9
52.5°	641.9	643.2	647.0	650.9	652.2	650.9	652.2	652.2	654.8	658.7	656.1
55°	596.7	596.7	601.8	605.7	605.7	605.7	605.7	607.0	610.9	610.9	610.9
57.5°	550.2	551.5	555.3	560.5	560.5	560.5	560.5	561.8	564.4	563.1	567.0
60°	505.0	505.0	510.1	512.7	512.7	515.3	515.3	516.6	517.9	521.8	521.8
62.5°	459.8	459.8	463.6	466.2	468.8	467.5	468.8	470.1	472.7	476.6	474.0
65°	413.3	413.3	417.2	418.4	422.3	421.0	422.3	426.2	427.5	428.8	427.5
67.5°	365.5	366.8	370.7	372.0	375.8	377.1	375.8	381.0	382.3	384.9	383.6
70°	315.1	316.4	321.6	322.9	325.5	324.2	326.7	333.2	335.8	337.1	334.5
72.5°	269.9	271.2	276.4	277.7	280.3	279.0	281.5	285.4	288.0	289.3	289.3
75°	223.4	226.0	228.6	231.2	235.1	233.8	236.3	240.2	242.8	244.1	244.1
77.5°	179.5	180.8	184.7	186.0	189.9	188.6	189.9	192.4	196.3	197.6	197.6
80°	135.6	138.2	139.5	142.1	144.6	143.4	145.9	149.8	151.1	152.4	152.4
82.5°	93.0	94.3	96.9	99.4	102.0	103.3	104.6	107.2	108.5	108.5	108.5
85°	51.7	54.2	56.8	58.1	60.7	59.4	63.3	65.9	67.2	67.2	68.4
87.5°	14.2	16.8	18.1	20.7	23.2	23.2	23.2	28.4	28.4	29.7	29.7
90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
92.5°	3.9	5.2	5.2	6.5	7.7	9.0	12.9	12.9	10.3	9.0	10.3
95°	10.3	11.6	14.2	22.0	27.1	31.0	36.2	34.9	29.7	23.2	22.0
97.5°	19.4	24.5	34.9	53.0	63.3	68.4	73.6	65.9	55.5	45.2	41.3
100°	36.2	49.1	74.9	105.9	117.5	122.7	121.4	104.6	90.4	73.6	64.6
102.5°	68.4	104.6	148.5	183.4	191.1	184.7	174.4	153.7	133.0	109.8	95.6
105°	148.5	210.5	255.7	268.6	272.5	259.6	235.1	209.2	179.5	152.4	131.7
107.5°	295.8	352.6	369.4	360.3	355.2	333.2	302.2	268.6	233.8	200.2	174.4
110°	468.8	479.1	467.5	439.1	423.6	404.2	369.4	330.6	286.7	253.1	222.1



TEST NUMBER: P303174

CATALOG NUMBER: CTW-F-5050-50L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	595.4	573.4	543.7	506.3	488.2	467.5	430.1	392.6	344.8	307.4	273.8
115°	676.7	644.5	608.3	568.3	548.9	526.9	489.5	448.2	400.4	365.5	326.7
117.5°	740.0	700.0	663.8	625.1	607.0	585.0	547.6	502.4	454.6	419.7	381.0
120°	789.1	751.7	714.2	678.0	657.4	639.3	600.5	555.3	507.6	468.8	432.7
122.5°	833.0	798.1	762.0	727.1	707.7	687.1	647.0	603.1	559.2	523.1	486.9
125°	874.3	842.1	805.9	771.0	751.7	731.0	692.2	649.6	605.7	567.0	536.0
127.5°	913.1	882.1	845.9	812.4	793.0	771.0	733.6	692.2	654.8	614.8	583.8
130°	948.0	919.5	884.7	851.1	831.7	811.1	773.6	733.6	697.4	662.5	629.0
132.5°	979.0	950.5	917.0	886.0	865.3	847.2	811.1	773.6	737.4	705.2	674.2
135°	1008.7	979.0	948.0	915.7	897.6	880.8	845.9	811.1	777.5	747.8	719.4
137.5°	1035.8	1003.5	972.5	941.5	924.7	910.5	876.9	844.6	816.2	786.5	758.1
140°	1059.0	1025.5	997.0	967.3	951.8	937.6	906.6	875.6	851.1	822.7	795.6
142.5°	1077.1	1043.5	1017.7	989.3	975.1	963.5	933.8	906.6	882.1	857.6	830.4
145°	1091.3	1061.6	1037.1	1010.0	998.3	985.4	958.3	933.8	911.8	887.3	862.7
147.5°	1105.5	1079.7	1055.2	1030.6	1019.0	1007.4	982.8	960.9	940.2	918.3	893.7
150°	1117.1	1093.9	1071.9	1050.0	1039.7	1028.0	1006.1	985.4	967.3	946.7	923.4
152.5°	1124.9	1105.5	1086.2	1066.8	1056.4	1047.4	1026.7	1010.0	993.2	975.1	951.8
155°	1131.4	1115.9	1097.8	1081.0	1071.9	1064.2	1044.8	1029.3	1015.1	999.6	979.0
157.5°	1137.8	1122.3	1106.8	1091.3	1083.6	1075.8	1059.0	1047.4	1034.5	1020.3	1000.9
160°	1140.4	1128.8	1113.3	1100.4	1093.9	1087.4	1073.2	1062.9	1052.6	1039.7	1021.6
162.5°	1141.7	1131.4	1118.4	1108.1	1102.9	1097.8	1083.6	1075.8	1066.8	1056.4	1040.9
165°	1141.7	1133.9	1123.6	1114.6	1109.4	1105.5	1093.9	1087.4	1081.0	1071.9	1057.7
167.5°	1140.4	1132.6	1124.9	1117.1	1113.3	1109.4	1100.4	1096.5	1091.3	1083.6	1071.9
170°	1136.5	1131.4	1123.6	1118.4	1115.9	1112.0	1105.5	1102.9	1100.4	1095.2	1083.6
172.5°	1130.1	1126.2	1121.0	1117.1	1115.9	1112.0	1106.8	1105.5	1105.5	1101.6	1092.6
175°	1121.0	1119.7	1115.9	1113.3	1110.7	1109.4	1105.5	1106.8	1108.1	1106.8	1099.1
177.5°	1109.4	1109.4	1106.8	1106.8	1105.5	1104.2	1102.9	1105.5	1109.4	1109.4	1104.2
180°	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1



TEST NUMBER: P303174

CATALOG NUMBER: CTW-F-5050-50L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5
2.5°	1264.4	1259.2	1257.9	1257.9	1256.6	1254.0	1252.8	1254.0	1259.2	1267.0	1259.2
5°	1259.2	1254.0	1251.5	1251.5	1251.5	1247.6	1247.6	1247.6	1254.0	1260.5	1252.8
7.5°	1250.2	1245.0	1243.7	1243.7	1242.4	1239.8	1238.5	1239.8	1245.0	1251.5	1243.7
10°	1238.5	1233.4	1232.1	1230.8	1229.5	1226.9	1225.6	1226.9	1232.1	1237.3	1230.8
12.5°	1223.1	1217.9	1215.3	1216.6	1214.0	1210.1	1210.1	1210.1	1216.6	1220.5	1214.0
15°	1203.7	1197.2	1195.9	1195.9	1194.6	1190.8	1190.8	1190.8	1197.2	1199.8	1192.1
17.5°	1180.4	1175.3	1174.0	1174.0	1171.4	1167.5	1167.5	1166.2	1174.0	1175.3	1170.1
20°	1155.9	1150.7	1148.1	1148.1	1145.6	1141.7	1141.7	1140.4	1149.4	1146.9	1143.0
22.5°	1128.8	1122.3	1119.7	1121.0	1118.4	1113.3	1113.3	1112.0	1119.7	1115.9	1110.7
25°	1099.1	1091.3	1090.0	1088.7	1087.4	1081.0	1081.0	1081.0	1088.7	1082.3	1078.4
27.5°	1064.2	1059.0	1057.7	1053.9	1053.9	1048.7	1048.7	1048.7	1056.4	1047.4	1046.1
30°	1029.3	1024.2	1024.2	1020.3	1019.0	1013.8	1013.8	1013.8	1021.6	1012.5	1010.0
32.5°	994.5	988.0	985.4	982.8	982.8	977.7	977.7	977.7	982.8	973.8	971.2
35°	955.7	949.3	949.3	944.1	944.1	938.9	937.6	940.2	941.5	933.8	931.2
37.5°	915.7	909.2	909.2	905.3	905.3	900.2	900.2	904.0	900.2	896.3	891.1
40°	875.6	870.5	867.9	864.0	865.3	861.4	860.1	862.7	860.1	856.3	849.8
42.5°	833.0	827.9	826.6	824.0	824.0	820.1	818.8	821.4	817.5	812.4	808.5
45°	790.4	786.5	785.2	782.6	782.6	777.5	777.5	778.8	773.6	771.0	765.9
47.5°	745.2	742.6	740.0	740.0	738.7	734.9	734.9	734.9	731.0	728.4	721.9
50°	701.3	697.4	696.1	696.1	696.1	692.2	691.0	688.4	685.8	684.5	678.0
52.5°	656.1	653.5	652.2	652.2	653.5	647.0	645.7	643.2	641.9	640.6	632.8
55°	610.9	608.3	605.7	608.3	607.0	601.8	600.5	601.8	598.0	594.1	587.6
57.5°	565.7	561.8	561.8	563.1	561.8	556.6	555.3	556.6	551.5	547.6	542.4
60°	520.5	516.6	515.3	516.6	515.3	510.1	508.9	508.9	505.0	502.4	497.2
62.5°	475.3	471.4	471.4	471.4	470.1	467.5	463.6	463.6	459.8	455.9	452.0
65°	427.5	423.6	424.9	424.9	424.9	422.3	418.4	419.7	413.3	410.7	406.8
67.5°	382.3	378.4	378.4	378.4	378.4	378.4	372.0	370.7	366.8	365.5	361.6
70°	334.5	329.3	330.6	329.3	328.0	326.7	322.9	321.6	317.7	317.7	313.8
72.5°	286.7	284.1	284.1	284.1	282.8	281.5	279.0	277.7	272.5	272.5	269.9
75°	238.9	238.9	237.6	237.6	237.6	236.3	233.8	232.5	227.3	228.6	226.0
77.5°	195.0	195.0	192.4	192.4	192.4	191.1	189.9	186.0	186.0	183.4	182.1
80°	149.8	149.8	148.5	148.5	148.5	147.2	145.9	144.6	142.1	140.8	138.2
82.5°	108.5	107.2	105.9	105.9	104.6	104.6	103.3	102.0	99.4	95.6	94.3
85°	65.9	65.9	64.6	64.6	63.3	63.3	60.7	58.1	55.5	53.0	51.7
87.5°	28.4	28.4	24.5	24.5	23.2	23.2	22.0	20.7	18.1	16.8	15.5
90°	2.6	3.9	3.9	3.9	5.2	5.2	5.2	6.5	6.5	6.5	6.5
92.5°	15.5	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	19.4	19.4
95°	25.8	28.4	34.9	37.5	40.0	42.6	42.6	42.6	42.6	41.3	38.7
97.5°	38.7	41.3	45.2	45.2	46.5	53.0	58.1	60.7	63.3	64.6	64.6
100°	60.7	55.5	60.7	64.6	63.3	63.3	65.9	71.0	76.2	78.8	80.1
102.5°	86.5	77.5	74.9	77.5	80.1	85.2	82.7	83.9	86.5	90.4	94.3
105°	118.8	107.2	98.2	96.9	96.9	102.0	108.5	107.2	105.9	105.9	105.9
107.5°	156.3	139.5	125.3	122.7	120.1	120.1	124.0	131.7	136.9	131.7	129.1
110°	198.9	175.6	161.4	153.7	148.5	143.4	143.4	147.2	153.7	160.1	162.7



TEST NUMBER: P303174

CATALOG NUMBER: CTW-F-5050-50L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	246.7	218.3	198.9	192.4	182.1	170.5	166.6	166.6	170.5	176.9	182.1
115°	295.8	266.0	238.9	231.2	220.8	202.8	192.4	189.9	189.9	192.4	197.6
117.5°	350.0	313.8	284.1	273.8	262.2	241.5	224.7	215.7	211.8	211.8	214.4
120°	397.8	366.8	335.8	321.6	307.4	284.1	262.2	248.0	238.9	233.8	232.5
122.5°	452.0	419.7	386.2	374.5	359.0	331.9	308.7	286.7	272.5	262.2	254.4
125°	501.1	471.4	436.5	422.3	408.1	381.0	357.7	333.2	313.8	297.0	284.1
127.5°	548.9	519.2	485.6	472.7	458.5	430.1	405.5	382.3	361.6	341.0	322.9
130°	596.7	568.3	534.7	520.5	507.6	480.4	453.3	430.1	412.0	391.3	370.7
132.5°	643.2	613.5	582.5	567.0	555.3	528.2	503.7	479.1	458.5	440.4	421.0
135°	687.1	658.7	627.7	612.2	600.5	576.0	551.5	529.5	506.3	488.2	470.1
137.5°	728.4	700.0	672.9	656.1	644.5	622.5	599.3	578.6	555.3	536.0	517.9
140°	767.2	740.0	714.2	700.0	687.1	665.1	644.5	627.7	603.1	585.0	567.0
142.5°	803.3	776.2	751.7	740.0	727.1	706.5	687.1	671.6	653.5	634.1	616.0
145°	835.6	812.4	789.1	777.5	765.9	746.5	728.4	714.2	698.7	679.3	662.5
147.5°	869.2	845.9	824.0	813.6	804.6	785.2	768.4	754.2	742.6	724.5	707.7
150°	900.2	878.2	858.8	848.5	840.8	820.1	807.2	793.0	783.9	767.2	752.9
152.5°	929.9	910.5	891.1	883.4	874.3	855.0	842.1	827.9	822.7	805.9	794.3
155°	958.3	937.6	922.1	914.4	905.3	887.3	876.9	864.0	860.1	844.6	833.0
157.5°	984.1	963.5	949.3	941.5	933.8	918.3	907.9	896.3	893.7	882.1	869.2
160°	1006.1	986.7	973.8	968.6	960.9	946.7	936.3	927.3	924.7	917.0	904.0
162.5°	1025.5	1008.7	998.3	991.9	985.4	972.5	964.8	954.4	954.4	948.0	937.6
165°	1044.8	1029.3	1019.0	1013.8	1008.7	998.3	989.3	982.8	982.8	977.7	967.3
167.5°	1060.3	1046.1	1038.4	1033.2	1029.3	1019.0	1012.5	1006.1	1007.4	1004.8	994.5
170°	1074.5	1061.6	1055.2	1051.3	1047.4	1038.4	1034.5	1028.0	1029.3	1029.3	1020.3
172.5°	1086.2	1074.5	1069.4	1065.5	1064.2	1055.2	1052.6	1048.7	1050.0	1052.6	1040.9
175°	1093.9	1084.9	1079.7	1078.4	1075.8	1070.7	1066.8	1065.5	1068.1	1071.9	1061.6
177.5°	1100.4	1092.6	1090.0	1090.0	1087.4	1082.3	1079.7	1079.7	1083.6	1088.7	1081.0
180°	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1



TEST NUMBER: P303174

CATALOG NUMBER: CTW-F-5050-50L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5
2.5°	1261.8	1260.5	1259.2	1256.6	1255.3	1252.8	1251.5	1252.8
5°	1254.0	1252.8	1251.5	1250.2	1250.2	1248.9	1248.9	1250.2
7.5°	1245.0	1243.7	1242.4	1241.1	1241.1	1241.1	1241.1	1242.4
10°	1232.1	1229.5	1228.2	1226.9	1225.6	1225.6	1225.6	1226.9
12.5°	1215.3	1212.7	1210.1	1208.8	1208.8	1208.8	1208.8	1211.4
15°	1193.3	1192.1	1190.8	1189.5	1189.5	1188.2	1188.2	1190.8
17.5°	1171.4	1168.8	1166.2	1164.9	1163.6	1163.6	1162.3	1163.6
20°	1141.7	1139.1	1136.5	1135.2	1135.2	1133.9	1133.9	1135.2
22.5°	1109.4	1105.5	1104.2	1102.9	1102.9	1101.6	1101.6	1102.9
25°	1077.1	1071.9	1070.7	1069.4	1069.4	1068.1	1068.1	1068.1
27.5°	1043.5	1038.4	1037.1	1034.5	1035.8	1033.2	1031.9	1033.2
30°	1007.4	1002.2	1000.9	998.3	998.3	995.7	994.5	995.7
32.5°	968.6	963.5	962.2	960.9	962.2	957.0	955.7	958.3
35°	928.6	923.4	923.4	920.8	922.1	917.0	917.0	918.3
37.5°	887.3	882.1	883.4	880.8	880.8	876.9	876.9	878.2
40°	845.9	842.1	839.5	839.5	840.8	835.6	835.6	834.3
42.5°	803.3	799.4	798.1	798.1	796.9	793.0	791.7	793.0
45°	760.7	756.8	756.8	755.5	755.5	750.4	751.7	750.4
47.5°	716.8	714.2	712.9	711.6	711.6	706.5	707.7	706.5
50°	672.9	671.6	670.3	669.0	669.0	663.8	666.4	663.8
52.5°	629.0	627.7	626.4	626.4	625.1	622.5	622.5	619.9
55°	585.0	582.5	582.5	582.5	581.2	577.3	579.9	577.3
57.5°	541.1	538.6	537.3	536.0	536.0	534.7	533.4	532.1
60°	495.9	493.4	493.4	490.8	490.8	490.8	489.5	488.2
62.5°	450.7	448.2	448.2	446.9	446.9	446.9	445.6	444.3
65°	406.8	402.9	402.9	401.7	401.7	401.7	400.4	399.1
67.5°	360.3	357.7	357.7	356.5	357.7	357.7	356.5	353.9
70°	312.5	310.0	310.0	308.7	310.0	310.0	308.7	306.1
72.5°	268.6	266.0	264.8	266.0	266.0	266.0	263.5	262.2
75°	224.7	220.8	220.8	222.1	220.8	222.1	219.6	222.1
77.5°	180.8	176.9	176.9	178.2	176.9	176.9	175.6	178.2
80°	135.6	133.0	133.0	134.3	133.0	133.0	131.7	134.3
82.5°	93.0	91.7	93.0	90.4	87.8	87.8	86.5	89.1
85°	51.7	50.4	49.1	49.1	47.8	47.8	46.5	49.1
87.5°	15.5	16.8	16.8	15.5	15.5	15.5	15.5	16.8
90°	6.5	6.5	6.5	7.7	7.7	9.0	9.0	9.0
92.5°	19.4	19.4	18.1	19.4	18.1	18.1	18.1	18.1
95°	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
97.5°	64.6	65.9	64.6	65.9	64.6	63.3	64.6	63.3
100°	81.4	83.9	83.9	85.2	85.2	85.2	85.2	85.2
102.5°	96.9	99.4	99.4	100.7	100.7	102.0	102.0	100.7
105°	109.8	111.1	112.4	113.7	116.2	118.8	118.8	118.8
107.5°	127.9	130.4	129.1	130.4	131.7	131.7	131.7	131.7
110°	160.1	157.6	156.3	153.7	153.7	153.7	153.7	153.7



TEST NUMBER: P303174

CATALOG NUMBER: CTW-F-5050-50L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	187.3	189.9	189.9	189.9	189.9	188.6	186.0	186.0
115°	204.1	209.2	210.5	211.8	214.4	215.7	215.7	215.7
117.5°	217.0	222.1	223.4	226.0	228.6	231.2	232.5	233.8
120°	233.8	237.6	238.9	238.9	241.5	242.8	245.4	245.4
122.5°	253.1	254.4	254.4	254.4	255.7	257.0	258.3	258.3
125°	279.0	275.1	275.1	272.5	272.5	271.2	272.5	272.5
127.5°	311.3	306.1	303.5	299.6	297.0	293.2	293.2	293.2
130°	356.5	347.4	342.2	335.8	330.6	322.9	322.9	322.9
132.5°	405.5	391.3	387.4	381.0	373.2	365.5	364.2	364.2
135°	455.9	440.4	435.2	428.8	419.7	413.3	408.1	412.0
137.5°	503.7	489.5	488.2	483.0	471.4	463.6	462.4	462.4
140°	552.8	537.3	534.7	529.5	523.1	515.3	511.4	512.7
142.5°	600.5	585.0	582.5	578.6	569.6	563.1	559.2	560.5
145°	649.6	634.1	631.5	626.4	617.3	612.2	607.0	610.9
147.5°	696.1	681.9	678.0	671.6	666.4	660.0	656.1	654.8
150°	741.3	727.1	724.5	718.1	712.9	707.7	702.6	705.2
152.5°	783.9	773.6	768.4	762.0	758.1	752.9	749.1	750.4
155°	824.0	811.1	808.5	803.3	800.7	795.6	793.0	793.0
157.5°	858.8	851.1	847.2	843.3	839.5	836.9	833.0	834.3
160°	896.3	888.6	884.7	882.1	876.9	876.9	873.1	874.3
162.5°	931.2	924.7	920.8	918.3	915.7	914.4	910.5	911.8
165°	962.2	955.7	954.4	950.5	949.3	949.3	945.4	945.4
167.5°	990.6	985.4	981.5	980.2	977.7	977.7	975.1	976.4
170°	1017.7	1012.5	1010.0	1007.4	1004.8	1004.8	1003.5	1003.5
172.5°	1040.9	1037.1	1035.8	1033.2	1031.9	1031.9	1030.6	1030.6
175°	1062.9	1059.0	1057.7	1055.2	1053.9	1052.6	1052.6	1052.6
177.5°	1082.3	1081.0	1078.4	1078.4	1075.8	1073.2	1070.7	1069.4
180°	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1

(END OF REPORT)