

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: P303162

Luminaire Tested: **CTW-F-5050-40L930-UNV-STD-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303162  
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-5050-40L930-UNV-STD-8  
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE  
50% UPLIGHT, 50% DOWNLIGHT, 4000 LUMEN PACKAGE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

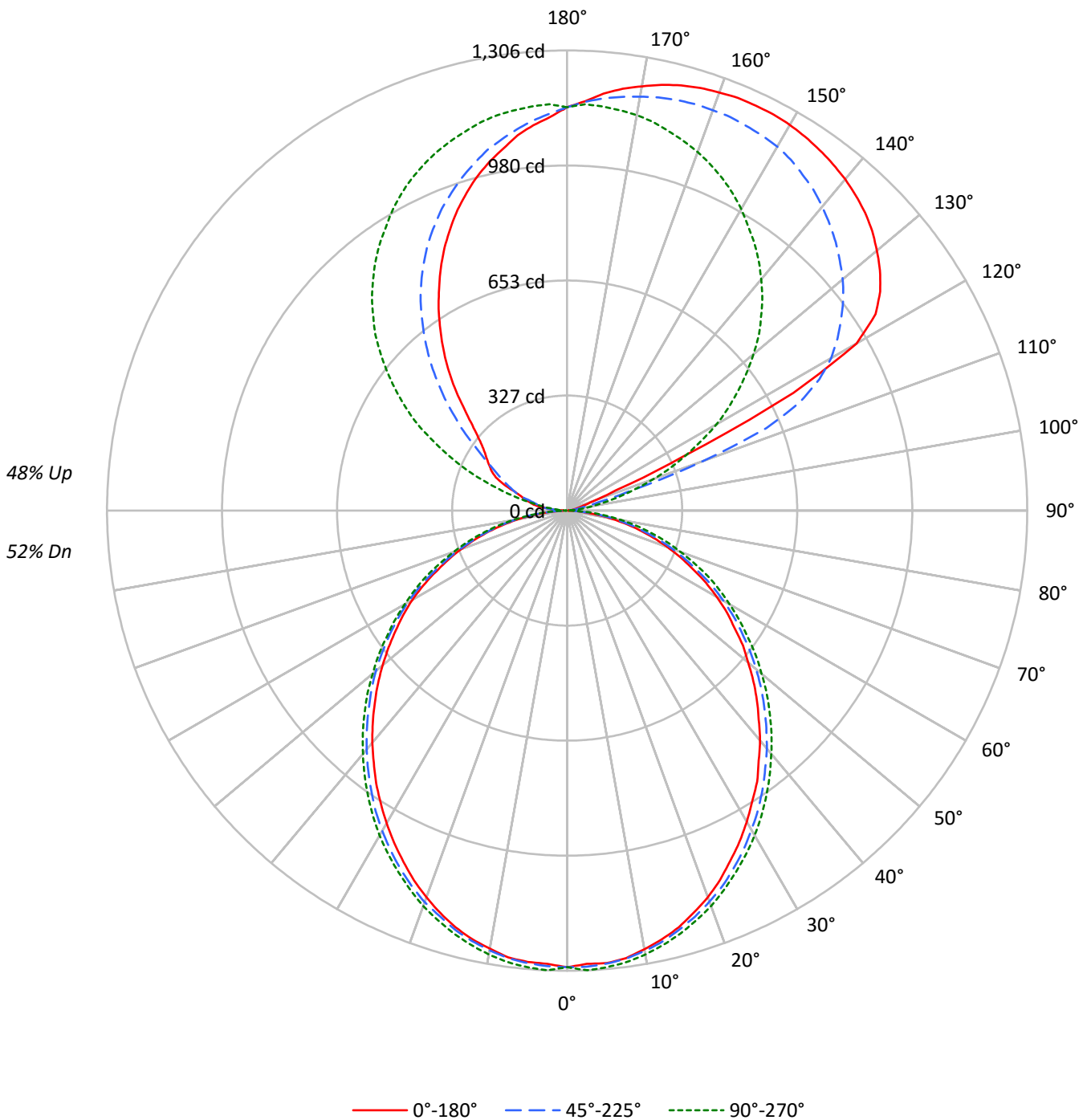
Lumens per Lamp: N/A  
Luminaire Lumens: 6698.4 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32  
Luminous Opening: Rectangular (W 8' x L: 0.12' x H: 0')  
CIE Type: General Diffuse

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



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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	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°	13948	13948	13948
5°	13930	14055	13894
10°	13818	13982	13800
15°	13643	13847	13643
20°	13377	13682	13377
25°	13019	13454	13058
30°	12674	13232	12736
35°	12351	12962	12415
40°	11967	12669	12084
45°	11598	12382	11749
50°	11226	12062	11449
55°	10864	11738	11145
60°	10564	11459	10923
65°	10040	11227	10465
70°	9530	10785	10102
75°	8788	10376	9549
80°	7525	9695	8660
85°	4730	8423	6570



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.3	1.8
10°-20°	346.2	5.2
20°-30°	512.6	7.7
30°-40°	601.7	9.0
40°-50°	610.0	9.1
50°-60°	544.1	8.1
60°-70°	415.1	6.2
70°-80°	245.3	3.7
80°-90°	66.1	1.0
90°-100°	33.3	0.5
100°-110°	138.7	2.1
110°-120°	391.3	5.8
120°-130°	570.4	8.5
130°-140°	614.4	9.2
140°-150°	584.6	8.7
150°-160°	479.8	7.2
160°-170°	313.7	4.7
170°-180°	108.7	1.6
0°-30°	981.1	14.6
0°-40°	1582.9	23.6
0°-60°	2736.9	40.9
0°-90°	3463.5	51.7
90°-120°	563.4	8.4
90°-150°	2332.8	34.8
90°-180°	3235.0	48.3
0°-180°	6698.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1296	1296	1296	1296	1296	
5°	1289	1291	1301	1289	1286	122
15°	1224	1231	1243	1231	1224	345
25°	1096	1120	1133	1121	1100	505
35°	940	966	986	970	945	586
45°	762	792	813	797	772	588
55°	579	606	626	616	594	520
65°	394	412	441	422	411	392
75°	211	225	250	236	230	223
85°	38	48	68	60	53	49
90°	2	2	2	7	10	2
95°	8	10	25	47	43	9
105°	37	93	153	110	125	43
115°	363	729	373	200	223	428
125°	1085	950	592	321	284	961
135°	1196	1078	778	522	418	923
145°	1249	1164	926	725	627	784
155°	1268	1204	1041	892	823	586
165°	1249	1206	1114	1020	983	354
175°	1188	1174	1151	1111	1098	114
180°	1144	1144	1144	1144	1144	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8
2.5°	1287.5	1285.9	1289.2	1292.5	1292.5	1294.2	1295.8	1297.5	1297.5	1300.8	1295.8
5°	1289.2	1285.9	1287.5	1287.5	1285.9	1287.5	1289.2	1292.5	1292.5	1295.8	1290.8
7.5°	1280.9	1279.2	1280.9	1279.2	1277.5	1279.2	1280.9	1282.5	1282.5	1285.9	1282.5
10°	1264.2	1264.2	1264.2	1264.2	1264.2	1265.9	1267.6	1269.2	1269.2	1272.5	1269.2
12.5°	1245.9	1245.9	1245.9	1247.6	1244.3	1245.9	1249.3	1252.6	1252.6	1255.9	1252.6
15°	1224.3	1224.3	1226.0	1227.6	1226.0	1226.0	1227.6	1231.0	1231.0	1234.3	1231.0
17.5°	1196.0	1196.0	1197.7	1201.0	1199.4	1201.0	1202.7	1206.0	1207.7	1207.7	1207.7
20°	1167.8	1166.1	1167.8	1169.4	1169.4	1171.1	1171.1	1176.1	1179.4	1179.4	1181.1
22.5°	1134.5	1131.2	1134.5	1136.1	1136.1	1137.8	1137.8	1142.8	1146.1	1147.8	1152.8
25°	1096.2	1096.2	1097.9	1101.2	1101.2	1102.9	1104.5	1109.5	1112.9	1112.9	1119.5
27.5°	1059.6	1058.0	1059.6	1063.0	1066.3	1067.9	1067.9	1072.9	1077.9	1081.3	1084.6
30°	1019.7	1019.7	1021.4	1024.7	1028.0	1026.4	1028.0	1034.7	1039.7	1043.0	1046.3
32.5°	978.1	978.1	979.8	983.1	988.1	988.1	989.8	994.8	998.1	1001.4	1008.1
35°	939.9	936.5	938.2	941.5	948.2	946.5	948.2	953.2	956.5	961.5	966.5
37.5°	893.3	893.3	894.9	898.3	904.9	903.3	906.6	909.9	914.9	919.9	923.2
40°	851.7	853.4	851.7	855.0	860.0	861.7	861.7	865.0	871.7	876.6	881.6
42.5°	805.1	806.8	808.4	811.8	816.8	816.8	818.4	821.8	826.7	831.7	836.7
45°	761.9	761.9	761.9	765.2	771.8	771.8	775.2	775.2	780.2	786.8	791.8
47.5°	717.0	717.0	717.0	721.9	726.9	726.9	730.3	730.3	736.9	741.9	746.9
50°	670.4	673.7	672.0	675.4	682.0	680.4	683.7	683.7	688.7	695.3	700.3
52.5°	628.8	628.8	625.5	630.5	635.4	635.4	637.1	637.1	643.8	648.8	653.7
55°	578.9	582.2	578.9	583.9	588.9	588.9	592.2	592.2	593.9	600.5	605.5
57.5°	537.3	537.3	534.0	537.3	542.3	542.3	545.6	545.6	548.9	552.3	560.6
60°	490.7	489.1	487.4	492.4	495.7	495.7	499.0	499.0	502.4	504.0	512.3
62.5°	444.1	442.5	442.5	445.8	449.1	447.5	452.5	452.5	455.8	459.1	464.1
65°	394.2	392.6	392.6	395.9	397.6	397.6	400.9	402.6	404.2	409.2	412.5
67.5°	349.3	347.7	346.0	349.3	351.0	351.0	354.3	356.0	359.3	361.0	364.3
70°	302.8	301.1	299.4	302.8	306.1	304.4	307.7	309.4	311.1	314.4	317.7
72.5°	256.2	256.2	256.2	257.8	259.5	259.5	261.2	262.8	266.2	269.5	271.1
75°	211.3	209.6	209.6	212.9	212.9	212.9	216.3	217.9	217.9	222.9	224.6
77.5°	166.3	168.0	166.3	166.3	166.3	168.0	169.7	171.3	174.7	178.0	179.7
80°	121.4	123.1	121.4	123.1	121.4	123.1	126.4	126.4	129.8	133.1	134.7
82.5°	78.2	79.8	78.2	79.8	79.8	79.8	81.5	83.2	86.5	88.2	91.5
85°	38.3	36.6	38.3	38.3	38.3	38.3	41.6	41.6	44.9	46.6	48.2
87.5°	5.0	5.0	5.0	5.0	6.7	5.0	6.7	8.3	8.3	10.0	10.0
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°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
95°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.0	10.0
97.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	15.0	15.0	16.6	18.3
100°	18.3	18.3	20.0	20.0	20.0	20.0	20.0	21.6	23.3	26.6	29.9
102.5°	26.6	26.6	26.6	28.3	28.3	29.9	29.9	33.3	36.6	41.6	51.6
105°	36.6	38.3	38.3	38.3	41.6	41.6	43.3	48.2	56.6	69.9	93.2
107.5°	51.6	53.2	53.2	56.6	59.9	63.2	66.5	81.5	101.5	141.4	199.6
110°	79.8	81.5	83.2	91.5	103.1	113.1	126.4	164.7	224.6	312.7	409.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	149.7	158.0	168.0	191.3	231.2	256.2	284.5	384.3	480.7	565.6	612.2
115°	362.6	384.3	405.9	457.5	525.7	565.6	593.9	680.4	721.9	738.6	728.6
117.5°	723.6	741.9	756.9	785.2	818.4	830.1	835.1	853.4	845.0	831.7	806.8
120°	948.2	954.8	953.2	953.2	953.2	948.2	944.8	933.2	913.2	893.3	865.0
122.5°	1038.0	1039.7	1033.0	1024.7	1014.7	1009.7	1003.1	984.8	963.1	939.9	909.9
125°	1084.6	1084.6	1077.9	1069.6	1058.0	1051.3	1041.3	1024.7	1003.1	979.8	949.8
127.5°	1119.5	1117.8	1112.9	1106.2	1092.9	1087.9	1077.9	1059.6	1038.0	1018.0	988.1
130°	1147.8	1146.1	1139.5	1136.1	1124.5	1116.2	1107.9	1089.6	1067.9	1048.0	1021.4
132.5°	1174.4	1171.1	1164.4	1161.1	1149.5	1142.8	1134.5	1117.8	1096.2	1077.9	1049.6
135°	1196.0	1191.0	1186.0	1182.7	1172.7	1164.4	1157.8	1141.1	1122.8	1102.9	1077.9
137.5°	1212.7	1209.3	1202.7	1199.4	1189.4	1182.7	1176.1	1162.8	1146.1	1126.2	1102.9
140°	1227.6	1222.6	1219.3	1214.3	1206.0	1199.4	1192.7	1181.1	1164.4	1147.8	1126.2
142.5°	1239.3	1236.0	1232.6	1229.3	1219.3	1214.3	1207.7	1197.7	1184.4	1167.8	1147.8
145°	1249.3	1245.9	1242.6	1239.3	1231.0	1226.0	1221.0	1211.0	1199.4	1182.7	1164.4
147.5°	1257.6	1254.3	1250.9	1249.3	1240.9	1236.0	1231.0	1224.3	1211.0	1194.4	1181.1
150°	1264.2	1260.9	1257.6	1254.3	1247.6	1242.6	1240.9	1232.6	1219.3	1206.0	1192.7
152.5°	1267.6	1264.2	1262.6	1259.2	1252.6	1247.6	1245.9	1237.6	1226.0	1211.0	1199.4
155°	1267.6	1265.9	1262.6	1260.9	1252.6	1247.6	1245.9	1237.6	1227.6	1214.3	1204.3
157.5°	1267.6	1264.2	1262.6	1259.2	1250.9	1247.6	1245.9	1239.3	1231.0	1219.3	1209.3
160°	1262.6	1260.9	1259.2	1255.9	1249.3	1245.9	1245.9	1239.3	1231.0	1221.0	1209.3
162.5°	1257.6	1254.3	1252.6	1250.9	1245.9	1244.3	1242.6	1237.6	1229.3	1221.0	1209.3
165°	1249.3	1247.6	1244.3	1242.6	1237.6	1236.0	1234.3	1231.0	1222.6	1217.7	1206.0
167.5°	1237.6	1234.3	1232.6	1229.3	1224.3	1224.3	1224.3	1221.0	1216.0	1212.7	1201.0
170°	1222.6	1219.3	1217.7	1216.0	1212.7	1212.7	1212.7	1211.0	1206.0	1204.3	1192.7
172.5°	1207.7	1206.0	1204.3	1202.7	1197.7	1197.7	1197.7	1197.7	1194.4	1194.4	1184.4
175°	1187.7	1186.0	1184.4	1184.4	1181.1	1182.7	1182.7	1182.7	1181.1	1184.4	1174.4
177.5°	1162.8	1159.4	1162.8	1166.1	1164.4	1166.1	1167.8	1167.8	1166.1	1169.4	1161.1
180°	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8
2.5°	1290.8	1292.5	1290.8	1292.5	1292.5	1292.5	1292.5	1297.5	1302.5	1305.8	1304.2
5°	1285.9	1287.5	1285.9	1287.5	1287.5	1287.5	1287.5	1292.5	1299.2	1300.8	1297.5
7.5°	1275.9	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1284.2	1289.2	1292.5	1289.2
10°	1262.6	1264.2	1264.2	1264.2	1265.9	1265.9	1265.9	1270.9	1277.5	1279.2	1275.9
12.5°	1245.9	1247.6	1247.6	1247.6	1249.3	1249.3	1249.3	1254.3	1260.9	1262.6	1260.9
15°	1226.0	1227.6	1227.6	1227.6	1229.3	1229.3	1229.3	1234.3	1240.9	1242.6	1240.9
17.5°	1202.7	1202.7	1202.7	1202.7	1206.0	1207.7	1206.0	1211.0	1217.7	1219.3	1217.7
20°	1174.4	1176.1	1176.1	1177.7	1179.4	1181.1	1181.1	1186.0	1192.7	1194.4	1191.0
22.5°	1146.1	1146.1	1147.8	1149.5	1149.5	1151.1	1151.1	1156.1	1162.8	1164.4	1162.8
25°	1114.5	1114.5	1116.2	1119.5	1119.5	1121.2	1121.2	1126.2	1131.2	1132.8	1131.2
27.5°	1079.6	1077.9	1081.3	1082.9	1084.6	1087.9	1086.2	1092.9	1097.9	1099.5	1097.9
30°	1044.7	1043.0	1046.3	1048.0	1049.6	1051.3	1051.3	1058.0	1063.0	1064.6	1063.0
32.5°	1006.4	1004.7	1008.1	1011.4	1011.4	1013.0	1013.0	1019.7	1023.0	1026.4	1023.0
35°	966.5	963.1	968.1	971.5	969.8	973.1	973.1	979.8	983.1	986.4	983.1
37.5°	926.5	924.9	926.5	929.9	929.9	931.5	931.5	938.2	943.2	944.8	943.2
40°	885.0	883.3	885.0	890.0	888.3	890.0	891.6	896.6	899.9	901.6	899.9
42.5°	840.0	840.0	841.7	846.7	845.0	846.7	848.4	853.4	856.7	858.3	856.7
45°	795.1	796.8	795.1	803.5	800.1	801.8	805.1	806.8	811.8	813.4	810.1
47.5°	750.2	753.5	751.9	758.5	756.9	756.9	758.5	763.5	766.9	768.5	766.9
50°	703.6	707.0	705.3	713.6	710.3	712.0	713.6	717.0	718.6	720.3	720.3
52.5°	657.1	658.7	662.1	667.0	665.4	667.0	668.7	670.4	672.0	675.4	672.0
55°	610.5	612.2	615.5	618.8	620.5	620.5	622.1	625.5	623.8	625.5	627.1
57.5°	563.9	567.2	567.2	573.9	573.9	573.9	573.9	578.9	577.2	580.5	580.5
60°	515.7	515.7	519.0	524.0	525.7	525.7	527.3	530.6	529.0	532.3	534.0
62.5°	467.4	470.8	474.1	477.4	480.7	477.4	482.4	484.1	485.7	487.4	485.7
65°	415.9	419.2	422.5	425.8	425.8	425.8	427.5	434.2	434.2	440.8	439.2
67.5°	367.6	371.0	374.3	377.6	379.3	379.3	380.9	384.3	387.6	389.3	387.6
70°	319.4	322.7	329.4	331.0	334.4	331.0	336.0	337.7	341.0	342.7	341.0
72.5°	272.8	276.1	281.1	282.8	286.1	287.8	289.4	289.4	294.4	296.1	296.1
75°	226.2	229.6	234.5	236.2	239.5	241.2	242.9	242.9	247.9	249.5	247.9
77.5°	181.3	183.0	188.0	189.6	193.0	194.6	196.3	196.3	201.3	202.9	201.3
80°	136.4	138.1	143.1	144.7	148.0	148.0	149.7	151.4	154.7	156.4	154.7
82.5°	93.2	94.8	98.1	101.5	103.1	104.8	106.5	108.1	109.8	111.5	109.8
85°	49.9	51.6	56.6	58.2	61.5	63.2	63.2	64.9	68.2	68.2	68.2
87.5°	11.6	15.0	18.3	20.0	23.3	23.3	25.0	25.0	28.3	29.9	28.3
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°	5.0	5.0	6.7	6.7	8.3	8.3	11.6	13.3	11.6	10.0	10.0
95°	11.6	13.3	16.6	21.6	23.3	26.6	33.3	34.9	28.3	25.0	23.3
97.5°	21.6	26.6	34.9	48.2	53.2	59.9	68.2	64.9	53.2	44.9	41.6
100°	38.3	49.9	69.9	94.8	104.8	113.1	114.8	106.5	88.2	73.2	64.9
102.5°	68.2	96.5	138.1	173.0	179.7	184.6	176.3	158.0	131.4	108.1	94.8
105°	136.4	194.6	251.2	272.8	272.8	267.8	242.9	217.9	183.0	153.0	131.4
107.5°	281.1	347.7	380.9	374.3	362.6	346.0	312.7	281.1	239.5	202.9	176.3
110°	474.1	499.0	489.1	464.1	442.5	422.5	380.9	342.7	297.8	259.5	227.9





TEST NUMBER: P303162

CATALOG NUMBER: CTW-F-5050-40L930-UNV-STD-8

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	618.8	600.5	573.9	532.3	512.3	492.4	449.1	405.9	356.0	317.7	281.1
115°	710.3	677.0	640.4	598.8	577.2	555.6	514.0	467.4	414.2	372.6	336.0
117.5°	776.8	736.9	698.7	658.7	635.4	613.8	573.9	524.0	474.1	429.2	392.6
120°	830.1	788.5	750.2	710.3	690.3	670.4	628.8	578.9	530.6	490.7	450.8
122.5°	876.6	835.1	798.5	760.2	741.9	720.3	677.0	628.8	580.5	542.3	505.7
125°	918.2	880.0	843.4	808.4	788.5	765.2	721.9	675.4	630.5	592.2	557.3
127.5°	956.5	921.6	886.6	851.7	833.4	806.8	766.9	721.9	680.4	642.1	608.8
130°	991.4	959.8	924.9	890.0	870.0	846.7	806.8	765.2	726.9	690.3	657.1
132.5°	1024.7	993.1	959.8	923.2	904.9	883.3	846.7	806.8	770.2	738.6	705.3
135°	1054.6	1023.0	989.8	954.8	934.9	916.6	881.6	845.0	810.1	778.5	745.2
137.5°	1081.3	1048.0	1016.4	983.1	964.8	948.2	914.9	880.0	850.0	820.1	786.8
140°	1104.5	1069.6	1039.7	1006.4	991.4	978.1	943.2	914.9	886.6	856.7	828.4
142.5°	1122.8	1089.6	1061.3	1031.3	1018.0	1003.1	973.1	946.5	919.9	893.3	865.0
145°	1139.5	1106.2	1081.3	1053.0	1039.7	1028.0	999.7	973.1	951.5	926.5	898.3
147.5°	1154.4	1124.5	1099.5	1074.6	1063.0	1051.3	1024.7	1001.4	981.4	956.5	931.5
150°	1164.4	1139.5	1117.8	1092.9	1084.6	1072.9	1048.0	1028.0	1008.1	988.1	963.1
152.5°	1172.7	1151.1	1131.2	1111.2	1102.9	1091.2	1069.6	1053.0	1036.3	1016.4	993.1
155°	1177.7	1161.1	1142.8	1124.5	1116.2	1107.9	1089.6	1072.9	1058.0	1041.3	1018.0
157.5°	1184.4	1169.4	1152.8	1136.1	1129.5	1121.2	1104.5	1091.2	1077.9	1063.0	1043.0
160°	1187.7	1174.4	1159.4	1146.1	1139.5	1134.5	1116.2	1107.9	1096.2	1082.9	1064.6
162.5°	1189.4	1177.7	1166.1	1154.4	1149.5	1142.8	1129.5	1121.2	1111.2	1099.5	1084.6
165°	1189.4	1181.1	1169.4	1161.1	1156.1	1149.5	1139.5	1132.8	1124.5	1114.5	1101.2
167.5°	1187.7	1181.1	1171.1	1164.4	1161.1	1156.1	1146.1	1141.1	1136.1	1129.5	1116.2
170°	1182.7	1177.7	1171.1	1166.1	1161.1	1157.8	1151.1	1147.8	1144.5	1139.5	1127.8
172.5°	1176.1	1172.7	1166.1	1164.4	1161.1	1157.8	1152.8	1152.8	1149.5	1146.1	1137.8
175°	1167.8	1166.1	1161.1	1159.4	1159.4	1156.1	1152.8	1152.8	1154.4	1151.1	1144.5
177.5°	1156.1	1156.1	1152.8	1152.8	1152.8	1151.1	1149.5	1152.8	1154.4	1154.4	1149.5
180°	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8
2.5°	1300.8	1295.8	1292.5	1292.5	1292.5	1289.2	1287.5	1289.2	1294.2	1302.5	1294.2
5°	1294.2	1289.2	1287.5	1287.5	1287.5	1284.2	1282.5	1284.2	1289.2	1297.5	1289.2
7.5°	1285.9	1280.9	1279.2	1279.2	1277.5	1274.2	1274.2	1274.2	1280.9	1285.9	1279.2
10°	1272.5	1267.6	1265.9	1265.9	1264.2	1260.9	1260.9	1260.9	1267.6	1272.5	1265.9
12.5°	1255.9	1250.9	1249.3	1249.3	1247.6	1244.3	1244.3	1244.3	1250.9	1254.3	1249.3
15°	1236.0	1231.0	1229.3	1229.3	1227.6	1224.3	1224.3	1224.3	1231.0	1232.6	1227.6
17.5°	1212.7	1207.7	1206.0	1206.0	1202.7	1201.0	1199.4	1199.4	1206.0	1207.7	1202.7
20°	1187.7	1181.1	1181.1	1179.4	1176.1	1174.4	1174.4	1172.7	1182.7	1179.4	1176.1
22.5°	1157.8	1152.8	1152.8	1151.1	1147.8	1146.1	1144.5	1144.5	1152.8	1146.1	1142.8
25°	1127.8	1121.2	1122.8	1119.5	1117.8	1114.5	1112.9	1112.9	1121.2	1112.9	1111.2
27.5°	1096.2	1089.6	1086.2	1086.2	1084.6	1079.6	1077.9	1077.9	1086.2	1077.9	1076.3
30°	1058.0	1054.6	1051.3	1051.3	1046.3	1044.7	1043.0	1043.0	1049.6	1041.3	1039.7
32.5°	1021.4	1016.4	1014.7	1013.0	1011.4	1006.4	1004.7	1006.4	1011.4	1001.4	999.7
35°	981.4	978.1	976.5	973.1	971.5	968.1	966.5	968.1	969.8	961.5	958.2
37.5°	938.2	936.5	934.9	931.5	929.9	928.2	926.5	928.2	928.2	919.9	916.6
40°	896.6	893.3	891.6	890.0	890.0	886.6	885.0	888.3	885.0	881.6	875.0
42.5°	855.0	850.0	850.0	846.7	846.7	843.4	843.4	845.0	841.7	838.4	831.7
45°	810.1	808.4	806.8	803.5	803.5	800.1	800.1	801.8	796.8	793.5	788.5
47.5°	765.2	765.2	761.9	758.5	760.2	758.5	756.9	756.9	753.5	750.2	745.2
50°	720.3	718.6	713.6	715.3	717.0	712.0	713.6	708.6	708.6	705.3	698.7
52.5°	673.7	672.0	670.4	668.7	670.4	667.0	667.0	663.7	662.1	658.7	653.7
55°	628.8	627.1	623.8	623.8	625.5	620.5	620.5	617.1	615.5	612.2	607.2
57.5°	582.2	580.5	578.9	577.2	578.9	575.6	573.9	572.2	568.9	565.6	562.3
60°	535.6	534.0	530.6	529.0	530.6	527.3	525.7	524.0	522.3	517.3	514.0
62.5°	487.4	484.1	484.1	482.4	484.1	480.7	479.1	477.4	474.1	470.8	470.8
65°	439.2	437.5	437.5	432.5	435.8	432.5	425.8	425.8	422.5	419.2	419.2
67.5°	387.6	385.9	385.9	384.3	384.3	384.3	382.6	379.3	374.3	374.3	374.3
70°	341.0	339.3	339.3	336.0	337.7	336.0	334.4	331.0	327.7	327.7	327.7
72.5°	292.8	291.1	291.1	289.4	291.1	289.4	287.8	284.5	281.1	282.8	281.1
75°	246.2	244.5	246.2	242.9	244.5	242.9	241.2	237.9	236.2	237.9	236.2
77.5°	199.6	199.6	199.6	199.6	198.0	196.3	194.6	193.0	193.0	193.0	189.6
80°	154.7	153.0	153.0	153.0	153.0	151.4	149.7	148.0	148.0	148.0	144.7
82.5°	109.8	109.8	109.8	109.8	108.1	109.8	104.8	103.1	103.1	103.1	99.8
85°	66.5	66.5	68.2	66.5	66.5	64.9	61.5	59.9	59.9	58.2	56.6
87.5°	29.9	26.6	26.6	26.6	25.0	25.0	25.0	21.6	21.6	21.6	18.3
90°	3.3	5.0	5.0	5.0	5.0	6.7	6.7	6.7	6.7	6.7	8.3
92.5°	15.0	20.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
95°	26.6	29.9	36.6	39.9	43.3	46.6	46.6	48.2	46.6	44.9	44.9
97.5°	39.9	44.9	46.6	48.2	51.6	58.2	63.2	68.2	71.5	73.2	73.2
100°	61.5	59.9	63.2	68.2	68.2	66.5	71.5	76.5	81.5	86.5	88.2
102.5°	88.2	81.5	79.8	81.5	84.8	91.5	88.2	89.8	91.5	94.8	99.8
105°	119.8	109.8	103.1	101.5	103.1	106.5	113.1	114.8	109.8	111.5	113.1
107.5°	156.4	141.4	131.4	128.1	126.4	126.4	129.8	136.4	141.4	139.7	136.4
110°	201.3	178.0	164.7	158.0	154.7	151.4	151.4	154.7	159.7	166.3	171.3



TEST NUMBER: P303162

CATALOG NUMBER: CTW-F-5050-40L930-UNV-STD-8

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	251.2	222.9	202.9	193.0	188.0	176.3	174.7	176.3	178.0	183.0	189.6
115°	304.4	269.5	244.5	232.9	226.2	207.9	199.6	198.0	199.6	201.3	204.6
117.5°	357.6	322.7	291.1	277.8	267.8	246.2	231.2	226.2	221.2	222.9	222.9
120°	415.9	374.3	344.3	326.0	316.1	289.4	269.5	257.8	247.9	244.5	242.9
122.5°	469.1	432.5	395.9	382.6	366.0	336.0	314.4	296.1	281.1	271.1	266.2
125°	519.0	484.1	450.8	435.8	419.2	385.9	362.6	341.0	321.0	307.7	294.4
127.5°	573.9	537.3	504.0	490.7	474.1	440.8	412.5	392.6	371.0	351.0	332.7
130°	618.8	587.2	555.6	542.3	527.3	495.7	467.4	444.1	417.5	399.2	379.3
132.5°	668.7	635.4	605.5	590.5	575.6	545.6	519.0	495.7	470.8	454.1	432.5
135°	713.6	682.0	650.4	638.8	622.1	595.5	570.6	545.6	522.3	502.4	484.1
137.5°	756.9	725.3	697.0	683.7	668.7	643.8	620.5	602.2	575.6	555.6	535.6
140°	796.8	766.9	740.2	726.9	715.3	688.7	668.7	650.4	625.5	607.2	585.5
142.5°	835.1	806.8	783.5	770.2	756.9	731.9	712.0	695.3	675.4	655.4	637.1
145°	871.7	843.4	821.8	810.1	796.8	773.5	755.2	738.6	725.3	703.6	685.3
147.5°	906.6	878.3	858.3	848.4	836.7	815.1	798.5	781.8	770.2	750.2	733.6
150°	938.2	913.2	894.9	885.0	873.3	853.4	838.4	823.4	813.4	793.5	781.8
152.5°	969.8	946.5	929.9	919.9	909.9	890.0	875.0	860.0	855.0	835.1	825.1
155°	998.1	974.8	959.8	951.5	943.2	923.2	909.9	894.9	891.6	875.0	863.3
157.5°	1024.7	1003.1	988.1	981.4	973.1	954.8	943.2	929.9	928.2	913.2	903.3
160°	1048.0	1028.0	1014.7	1006.4	999.7	984.8	973.1	963.1	959.8	949.8	939.9
162.5°	1069.6	1053.0	1039.7	1033.0	1028.0	1013.0	1003.1	993.1	991.4	984.8	973.1
165°	1087.9	1071.3	1061.3	1056.3	1051.3	1038.0	1029.7	1021.4	1019.7	1016.4	1004.7
167.5°	1104.5	1089.6	1081.3	1076.3	1071.3	1061.3	1054.6	1048.0	1048.0	1044.7	1034.7
170°	1117.8	1104.5	1097.9	1094.6	1091.2	1081.3	1074.6	1069.6	1069.6	1071.3	1059.6
172.5°	1129.5	1119.5	1112.9	1107.9	1106.2	1099.5	1094.6	1089.6	1091.2	1094.6	1084.6
175°	1139.5	1129.5	1124.5	1122.8	1121.2	1114.5	1111.2	1109.5	1111.2	1116.2	1107.9
177.5°	1146.1	1139.5	1136.1	1134.5	1134.5	1127.8	1126.2	1126.2	1127.8	1136.1	1126.2
180°	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5



TEST NUMBER: P303162

CATALOG NUMBER: CTW-F-5050-40L930-UNV-STD-8

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8	1295.8
2.5°	1297.5	1295.8	1294.2	1292.5	1290.8	1289.2	1285.9	1287.5
5°	1290.8	1289.2	1287.5	1285.9	1285.9	1285.9	1284.2	1285.9
7.5°	1280.9	1279.2	1277.5	1275.9	1275.9	1277.5	1275.9	1279.2
10°	1267.6	1264.2	1264.2	1260.9	1260.9	1260.9	1260.9	1262.6
12.5°	1249.3	1245.9	1245.9	1242.6	1242.6	1242.6	1244.3	1245.9
15°	1227.6	1226.0	1224.3	1222.6	1222.6	1224.3	1222.6	1224.3
17.5°	1202.7	1199.4	1199.4	1197.7	1197.7	1196.0	1196.0	1197.7
20°	1172.7	1169.4	1169.4	1167.8	1166.1	1166.1	1166.1	1167.8
22.5°	1139.5	1137.8	1136.1	1132.8	1134.5	1134.5	1132.8	1136.1
25°	1106.2	1104.5	1102.9	1101.2	1101.2	1099.5	1097.9	1099.5
27.5°	1072.9	1069.6	1067.9	1066.3	1064.6	1063.0	1061.3	1063.0
30°	1036.3	1029.7	1031.3	1029.7	1026.4	1024.7	1023.0	1024.7
32.5°	996.4	993.1	989.8	989.8	986.4	984.8	983.1	984.8
35°	956.5	951.5	949.8	949.8	946.5	944.8	943.2	944.8
37.5°	914.9	909.9	908.3	908.3	904.9	901.6	901.6	901.6
40°	871.7	866.7	866.7	866.7	863.3	860.0	860.0	860.0
42.5°	828.4	825.1	823.4	823.4	820.1	815.1	815.1	816.8
45°	785.2	781.8	780.2	778.5	776.8	771.8	771.8	771.8
47.5°	738.6	738.6	735.3	735.3	731.9	730.3	728.6	728.6
50°	697.0	693.7	690.3	690.3	688.7	683.7	683.7	683.7
52.5°	650.4	648.8	645.4	645.4	642.1	638.8	638.8	638.8
55°	605.5	603.8	600.5	600.5	597.2	595.5	593.9	593.9
57.5°	558.9	558.9	555.6	555.6	550.6	550.6	548.9	552.3
60°	510.7	512.3	509.0	507.4	504.0	504.0	504.0	507.4
62.5°	467.4	465.8	462.4	462.4	460.8	459.1	460.8	460.8
65°	417.5	414.2	412.5	412.5	410.9	409.2	407.5	410.9
67.5°	371.0	369.3	366.0	366.0	366.0	364.3	364.3	366.0
70°	324.4	322.7	321.0	321.0	319.4	319.4	319.4	321.0
72.5°	277.8	277.8	277.8	276.1	274.5	272.8	276.1	274.5
75°	232.9	231.2	231.2	231.2	229.6	227.9	226.2	229.6
77.5°	188.0	186.3	186.3	186.3	184.6	183.0	183.0	184.6
80°	143.1	141.4	141.4	141.4	139.7	139.7	138.1	139.7
82.5°	96.5	96.5	96.5	96.5	93.2	94.8	94.8	93.2
85°	54.9	53.2	53.2	53.2	53.2	53.2	51.6	53.2
87.5°	16.6	16.6	16.6	18.3	16.6	18.3	18.3	18.3
90°	8.3	8.3	8.3	8.3	8.3	8.3	10.0	10.0
92.5°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
95°	43.3	44.9	43.3	43.3	43.3	43.3	43.3	43.3
97.5°	73.2	73.2	73.2	73.2	71.5	69.9	69.9	69.9
100°	91.5	93.2	94.8	94.8	96.5	96.5	96.5	96.5
102.5°	103.1	104.8	104.8	106.5	108.1	108.1	108.1	108.1
105°	114.8	114.8	116.4	118.1	121.4	123.1	124.8	124.8
107.5°	134.7	134.7	136.4	136.4	136.4	138.1	138.1	138.1
110°	169.7	163.0	163.0	161.4	159.7	159.7	159.7	159.7



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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	194.6	196.3	198.0	199.6	198.0	194.6	194.6	194.6
115°	211.3	214.6	217.9	219.6	221.2	221.2	222.9	222.9
117.5°	227.9	231.2	232.9	234.5	237.9	237.9	241.2	241.2
120°	244.5	247.9	247.9	249.5	251.2	252.8	254.5	254.5
122.5°	264.5	266.2	266.2	266.2	267.8	267.8	269.5	269.5
125°	289.4	286.1	284.5	286.1	284.5	284.5	284.5	284.5
127.5°	321.0	314.4	312.7	311.1	307.7	304.4	304.4	304.4
130°	362.6	352.7	347.7	346.0	341.0	334.4	334.4	332.7
132.5°	410.9	399.2	392.6	390.9	382.6	374.3	371.0	369.3
135°	467.4	454.1	445.8	444.1	430.8	422.5	419.2	417.5
137.5°	517.3	504.0	499.0	495.7	487.4	479.1	474.1	472.4
140°	568.9	557.3	548.9	545.6	535.6	530.6	525.7	525.7
142.5°	620.5	608.8	600.5	597.2	588.9	582.2	577.2	577.2
145°	670.4	658.7	650.4	647.1	638.8	632.1	628.8	627.1
147.5°	720.3	708.6	702.0	698.7	690.3	683.7	678.7	678.7
150°	768.5	756.9	750.2	743.6	738.6	731.9	728.6	726.9
152.5°	813.4	803.5	796.8	790.1	785.2	781.8	776.8	776.8
155°	853.4	845.0	838.4	833.4	830.1	825.1	823.4	823.4
157.5°	894.9	885.0	880.0	875.0	871.7	870.0	866.7	866.7
160°	933.2	923.2	919.9	914.9	911.6	908.3	906.6	908.3
162.5°	969.8	963.1	958.2	953.2	951.5	948.2	946.5	946.5
165°	1001.4	994.8	991.4	988.1	984.8	983.1	981.4	983.1
167.5°	1031.3	1024.7	1021.4	1018.0	1016.4	1016.4	1014.7	1014.7
170°	1058.0	1053.0	1051.3	1046.3	1044.7	1044.7	1043.0	1043.0
172.5°	1082.9	1079.6	1077.9	1074.6	1074.6	1074.6	1072.9	1074.6
175°	1107.9	1104.5	1102.9	1099.5	1099.5	1097.9	1096.2	1097.9
177.5°	1129.5	1127.8	1124.5	1122.8	1121.2	1119.5	1116.2	1117.8
180°	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5	1144.5

(END OF REPORT)