

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: P303175

Luminaire Tested: **CTW-F-5050-50L940-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303175
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-5050-50L940-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 5000 LUMEN PACKAGE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

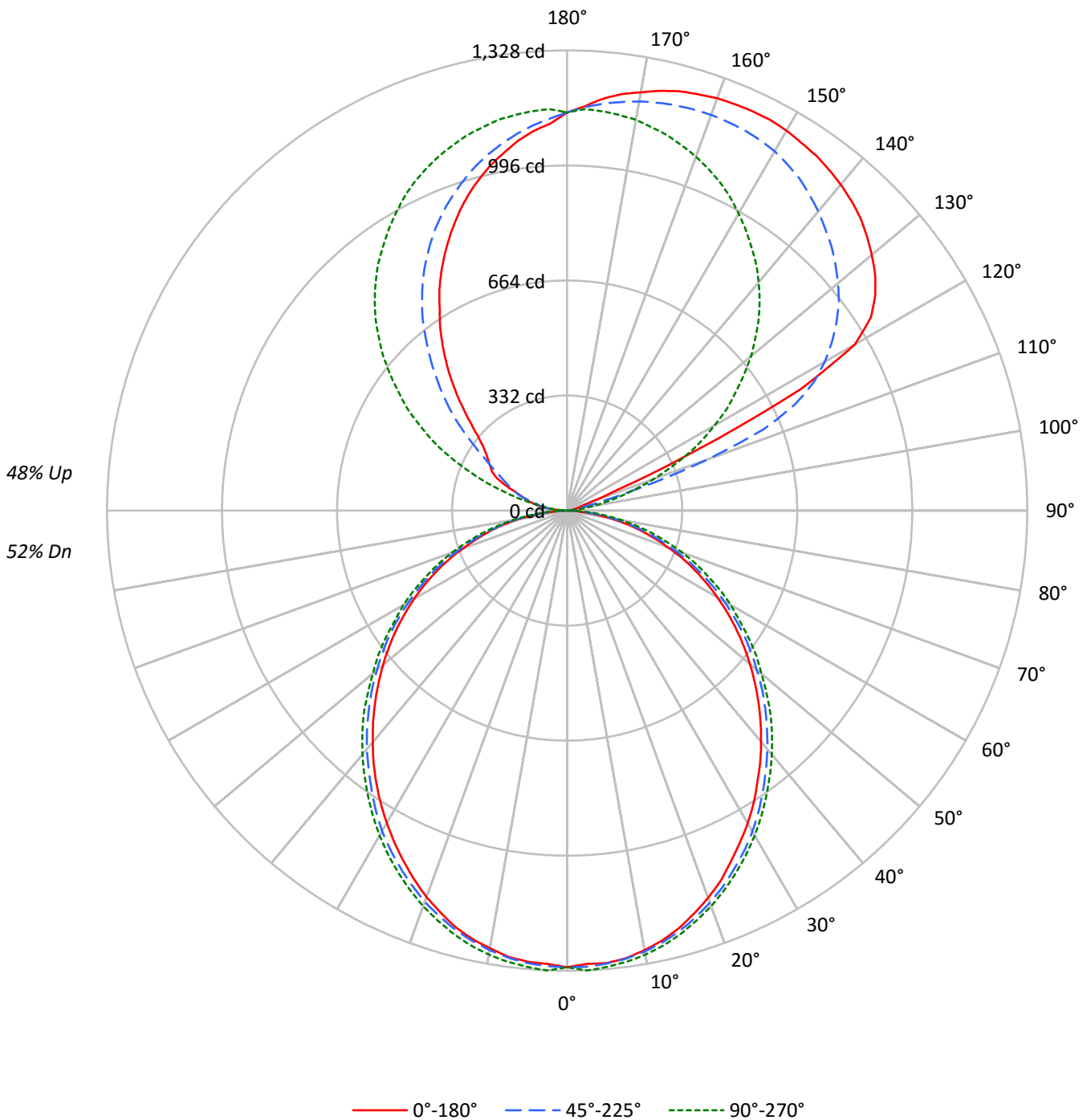
Lumens per Lamp: N/A
Luminaire Lumens: 6779.2 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: General Diffuse

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: P303175
CATALOG NUMBER: CTW-F-5050-50L940-UNV-STD-6

Luminous Intensity Polar Plot





TEST NUMBER: P303175

CATALOG NUMBER: CTW-F-5050-50L940-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°	18910	18910	18910
5°	18884	19040	18827
10°	18769	18966	18690
15°	18534	18794	18494
20°	18164	18557	18123
25°	17701	18257	17679
30°	17271	17943	17248
35°	16769	17573	16816
40°	16313	17223	16339
45°	15837	16850	15919
50°	15373	16337	15493
55°	14895	15976	15098
60°	14375	15655	14648
65°	13798	15221	14164
70°	12970	14783	13424
75°	11978	14146	12876
80°	10265	13166	11604
85°	6439	11560	8448



TEST NUMBER: P303175

CATALOG NUMBER: CTW-F-5050-50L940-UNV-STD-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	1.8
10°-20°	352.3	5.2
20°-30°	521.6	7.7
30°-40°	612.5	9.0
40°-50°	621.1	9.2
50°-60°	554.0	8.2
60°-70°	424.6	6.3
70°-80°	250.0	3.7
80°-90°	67.4	1.0
90°-100°	32.7	0.5
100°-110°	141.1	2.1
110°-120°	395.5	5.8
120°-130°	571.8	8.4
130°-140°	617.2	9.1
140°-150°	587.0	8.7
150°-160°	481.8	7.1
160°-170°	314.9	4.6
170°-180°	109.1	1.6
0°-30°	998.3	14.7
0°-40°	1610.9	23.8
0°-60°	2785.9	41.1
0°-90°	3527.9	52.0
90°-120°	569.3	8.4
90°-150°	2345.4	34.6
90°-180°	3251.0	48.0
0°-180°	6779.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1318	1318	1318	1318	1318	
5°	1311	1312	1322	1311	1307	124
15°	1247	1256	1265	1251	1245	351
25°	1118	1141	1153	1138	1116	515
35°	957	986	1003	984	960	599
45°	780	809	830	809	784	602
55°	595	621	638	625	603	532
65°	406	425	448	432	417	402
75°	216	231	255	238	232	228
85°	39	51	70	58	51	50
90°	1	1	1	7	9	2
95°	8	9	24	44	40	9
105°	35	103	159	111	124	41
115°	409	726	382	198	225	452
125°	1085	949	593	328	285	963
135°	1196	1079	782	529	431	923
145°	1251	1169	927	730	638	784
155°	1270	1211	1045	899	829	587
165°	1253	1211	1120	1027	988	355
175°	1193	1178	1157	1116	1100	115
180°	1149	1149	1149	1149	1149	



TEST NUMBER: P303175

CATALOG NUMBER: CTW-F-5050-50L940-UNV-STD-6

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6
2.5°	1309.5	1308.1	1312.2	1314.9	1314.9	1316.2	1318.9	1320.3	1318.9	1324.3	1317.6
5°	1310.8	1308.1	1309.5	1309.5	1308.1	1309.5	1312.2	1313.5	1313.5	1318.9	1312.2
7.5°	1302.7	1301.4	1302.7	1301.4	1300.0	1301.4	1302.7	1305.4	1304.1	1309.5	1304.1
10°	1287.9	1286.5	1286.5	1286.5	1285.2	1286.5	1289.2	1291.9	1291.9	1296.0	1291.9
12.5°	1270.3	1267.6	1269.0	1270.3	1267.6	1269.0	1271.7	1274.4	1274.4	1279.8	1275.7
15°	1247.4	1246.0	1248.7	1251.4	1248.7	1248.7	1251.4	1252.8	1254.1	1258.2	1255.5
17.5°	1219.0	1219.0	1221.7	1225.8	1223.1	1223.1	1225.8	1228.5	1228.5	1231.2	1231.2
20°	1189.3	1188.0	1190.7	1193.4	1193.4	1192.0	1196.1	1198.8	1200.1	1202.8	1204.2
22.5°	1156.9	1154.2	1155.6	1159.6	1158.3	1158.3	1159.6	1165.0	1167.7	1170.4	1174.5
25°	1117.8	1117.8	1120.5	1123.2	1123.2	1123.2	1124.5	1128.6	1132.6	1136.7	1140.7
27.5°	1080.0	1080.0	1081.3	1086.7	1086.7	1085.4	1088.1	1094.8	1098.9	1101.6	1107.0
30°	1042.2	1038.1	1042.2	1046.2	1048.9	1046.2	1050.3	1055.7	1058.4	1062.4	1069.2
32.5°	1001.7	1000.3	1000.3	1005.7	1008.4	1007.1	1008.4	1015.2	1020.6	1021.9	1028.7
35°	957.1	958.5	958.5	962.5	965.2	963.9	965.2	972.0	977.4	978.7	985.5
37.5°	915.3	915.3	915.3	919.3	922.0	922.0	922.0	928.8	934.2	938.2	942.3
40°	870.7	872.1	870.7	874.8	878.8	877.5	878.8	884.2	891.0	895.0	899.1
42.5°	826.2	824.8	824.8	828.9	834.3	832.9	834.3	839.7	845.1	850.5	853.2
45°	780.3	777.6	780.3	784.3	788.4	789.7	788.4	793.8	799.2	803.2	808.6
47.5°	734.4	733.0	733.0	737.1	741.1	741.1	742.5	746.5	753.3	756.0	762.7
50°	688.5	688.5	687.1	691.2	695.2	696.6	696.6	699.3	706.0	711.4	714.1
52.5°	642.6	642.6	642.6	643.9	646.6	650.7	650.7	653.4	657.4	664.2	668.2
55°	595.3	596.7	595.3	596.7	600.7	603.4	603.4	606.1	610.2	616.9	621.0
57.5°	548.1	549.4	548.1	549.4	553.5	554.8	556.2	558.9	561.6	567.0	571.0
60°	500.8	502.2	500.8	502.2	506.2	508.9	507.6	511.6	514.3	517.0	522.4
62.5°	453.6	456.3	454.9	457.6	459.0	461.7	460.3	464.4	467.1	469.8	475.2
65°	406.3	409.0	407.7	410.4	410.4	413.1	411.7	415.8	418.5	421.2	425.2
67.5°	359.1	361.8	360.4	361.8	363.1	365.8	363.1	368.5	371.2	372.6	376.6
70°	309.1	311.8	310.5	311.8	313.2	314.5	313.2	317.2	321.3	322.6	325.3
72.5°	261.9	264.6	264.6	265.9	265.9	268.6	268.6	268.6	271.3	275.4	276.7
75°	216.0	218.7	218.7	218.7	218.7	221.4	221.4	224.1	225.4	228.1	230.8
77.5°	170.1	172.8	172.8	172.8	172.8	175.5	175.5	178.2	179.5	182.2	184.9
80°	124.2	126.9	128.2	128.2	128.2	129.6	129.6	132.3	133.6	136.3	139.0
82.5°	81.0	82.3	83.7	82.3	83.7	85.0	87.7	87.7	89.1	91.8	94.5
85°	39.1	40.5	41.8	41.8	41.8	43.2	43.2	45.9	47.2	48.6	51.3
87.5°	5.4	6.7	6.7	6.7	6.7	8.1	8.1	8.1	9.4	9.4	12.1
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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
95°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	9.4
97.5°	12.1	12.1	13.5	12.1	13.5	13.5	13.5	13.5	14.8	14.8	17.5
100°	18.9	18.9	18.9	18.9	18.9	18.9	20.2	20.2	22.9	24.3	28.3
102.5°	25.6	25.6	25.6	27.0	27.0	28.3	28.3	29.7	33.7	39.1	51.3
105°	35.1	35.1	36.4	36.4	37.8	39.1	40.5	45.9	54.0	70.2	102.6
107.5°	48.6	49.9	51.3	52.6	56.7	60.7	64.8	79.6	103.9	153.9	229.5
110°	76.9	78.3	83.7	89.1	102.6	116.1	129.6	179.5	252.4	344.2	427.9



TEST NUMBER: P303175

CATALOG NUMBER: CTW-F-5050-50L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	160.6	166.0	170.1	202.5	245.7	283.5	318.6	407.7	503.5	581.8	614.2
115°	409.0	418.5	425.2	488.7	556.2	599.4	626.4	687.1	726.3	738.4	726.3
117.5°	760.0	764.1	773.5	796.5	827.5	842.4	845.1	854.5	845.1	826.2	801.9
120°	958.5	958.5	953.1	954.4	950.4	950.4	945.0	930.1	909.9	886.9	858.6
122.5°	1039.5	1035.4	1028.7	1023.3	1011.1	1008.4	1000.3	981.4	959.8	936.9	905.8
125°	1085.4	1081.3	1075.9	1069.2	1055.7	1050.3	1042.2	1023.3	1001.7	977.4	949.0
127.5°	1120.5	1116.4	1111.0	1104.3	1092.1	1086.7	1077.3	1058.4	1036.8	1013.8	988.2
130°	1147.5	1146.1	1139.4	1135.3	1123.2	1117.8	1108.3	1089.4	1069.2	1046.2	1020.6
132.5°	1173.1	1170.4	1163.7	1161.0	1150.2	1143.4	1135.3	1117.8	1097.5	1074.6	1050.3
135°	1196.1	1193.4	1185.3	1182.6	1173.1	1165.0	1158.3	1142.1	1124.5	1101.6	1078.6
137.5°	1213.6	1209.6	1204.2	1201.5	1192.0	1183.9	1178.5	1163.7	1146.1	1124.5	1102.9
140°	1228.5	1224.4	1220.4	1217.7	1209.6	1202.8	1196.1	1181.2	1166.4	1148.8	1127.2
142.5°	1240.6	1237.9	1233.9	1229.8	1221.7	1216.3	1210.9	1198.8	1185.3	1167.7	1148.8
145°	1251.4	1248.7	1244.7	1242.0	1232.5	1228.5	1223.1	1212.3	1200.1	1182.6	1169.1
147.5°	1258.2	1256.8	1254.1	1251.4	1242.0	1237.9	1232.5	1224.4	1212.3	1196.1	1183.9
150°	1266.3	1263.6	1260.9	1259.5	1250.1	1246.0	1243.3	1233.9	1223.1	1208.2	1197.4
152.5°	1270.3	1267.6	1264.9	1263.6	1254.1	1251.4	1248.7	1240.6	1228.5	1215.0	1205.5
155°	1270.3	1269.0	1266.3	1264.9	1255.5	1251.4	1250.1	1242.0	1231.2	1220.4	1210.9
157.5°	1269.0	1266.3	1264.9	1262.2	1254.1	1251.4	1248.7	1242.0	1232.5	1223.1	1213.6
160°	1266.3	1263.6	1262.2	1259.5	1252.8	1250.1	1248.7	1242.0	1235.2	1225.8	1215.0
162.5°	1259.5	1258.2	1256.8	1255.5	1250.1	1247.4	1246.0	1240.6	1232.5	1224.4	1213.6
165°	1252.8	1250.1	1248.7	1246.0	1240.6	1240.6	1239.3	1235.2	1227.1	1223.1	1210.9
167.5°	1240.6	1236.6	1236.6	1232.5	1228.5	1228.5	1227.1	1225.8	1219.0	1216.3	1205.5
170°	1225.8	1224.4	1221.7	1220.4	1217.7	1217.7	1216.3	1215.0	1209.6	1209.6	1198.8
172.5°	1212.3	1210.9	1209.6	1206.9	1202.8	1202.8	1202.8	1202.8	1198.8	1198.8	1189.3
175°	1193.4	1190.7	1190.7	1189.3	1186.6	1188.0	1188.0	1188.0	1185.3	1188.0	1178.5
177.5°	1167.7	1165.0	1167.7	1170.4	1169.1	1170.4	1171.8	1171.8	1169.1	1173.1	1165.0
180°	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8



TEST NUMBER: P303175

CATALOG NUMBER: CTW-F-5050-50L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6
2.5°	1312.2	1313.5	1312.2	1313.5	1314.9	1313.5	1314.9	1320.3	1325.7	1328.4	1325.7
5°	1306.8	1308.1	1306.8	1308.1	1309.5	1308.1	1309.5	1313.5	1320.3	1321.6	1320.3
7.5°	1298.7	1300.0	1298.7	1300.0	1300.0	1300.0	1300.0	1305.4	1310.8	1313.5	1310.8
10°	1285.2	1286.5	1285.2	1287.9	1287.9	1287.9	1287.9	1293.3	1298.7	1301.4	1297.3
12.5°	1269.0	1270.3	1269.0	1271.7	1270.3	1271.7	1273.0	1277.1	1282.5	1285.2	1282.5
15°	1247.4	1250.1	1248.7	1251.4	1251.4	1251.4	1251.4	1256.8	1262.2	1264.9	1262.2
17.5°	1223.1	1224.4	1224.4	1227.1	1227.1	1227.1	1228.5	1233.9	1237.9	1240.6	1237.9
20°	1196.1	1198.8	1198.8	1200.1	1200.1	1201.5	1202.8	1206.9	1212.3	1215.0	1212.3
22.5°	1166.4	1169.1	1170.4	1170.4	1170.4	1171.8	1173.1	1177.2	1183.9	1185.3	1182.6
25°	1135.3	1135.3	1138.0	1138.0	1139.4	1140.7	1142.1	1144.8	1151.5	1152.9	1151.5
27.5°	1101.6	1100.2	1101.6	1104.3	1104.3	1107.0	1108.3	1111.0	1116.4	1119.1	1116.4
30°	1063.8	1063.8	1066.5	1067.8	1067.8	1069.2	1071.9	1074.6	1080.0	1082.7	1080.0
32.5°	1026.0	1024.6	1028.7	1028.7	1030.0	1031.4	1032.7	1036.8	1040.8	1043.5	1042.2
35°	986.8	982.8	988.2	988.2	989.5	992.2	992.2	994.9	1000.3	1003.0	1000.3
37.5°	946.3	942.3	946.3	949.0	947.7	950.4	951.7	954.4	959.8	961.2	961.2
40°	904.5	900.4	904.5	905.8	905.8	907.2	909.9	911.2	915.3	919.3	916.6
42.5°	858.6	857.2	859.9	862.6	862.6	864.0	865.3	866.7	870.7	874.8	872.1
45°	812.7	812.7	815.4	818.1	819.4	819.4	820.8	822.1	824.8	830.2	826.2
47.5°	766.8	766.8	769.5	770.8	770.8	772.2	774.9	774.9	780.3	780.3	781.6
50°	718.2	720.9	723.6	727.6	724.9	726.3	729.0	729.0	731.7	731.7	735.7
52.5°	670.9	672.3	676.3	680.4	681.7	680.4	681.7	681.7	684.4	688.5	685.8
55°	623.7	623.7	629.1	633.1	633.1	633.1	633.1	634.5	638.5	638.5	638.5
57.5°	575.1	576.4	580.5	585.9	585.9	585.9	585.9	587.2	589.9	588.6	592.6
60°	527.8	527.8	533.2	535.9	535.9	538.6	538.6	540.0	541.3	545.4	545.4
62.5°	480.6	480.6	484.6	487.3	490.0	488.7	490.0	491.4	494.1	498.1	495.4
65°	432.0	432.0	436.0	437.4	441.4	440.1	441.4	445.5	446.8	448.2	446.8
67.5°	382.0	383.4	387.4	388.8	392.8	394.2	392.8	398.2	399.6	402.3	400.9
70°	329.4	330.7	336.1	337.5	340.2	338.8	341.5	348.3	351.0	352.3	349.6
72.5°	282.1	283.5	288.9	290.2	292.9	291.6	294.3	298.3	301.0	302.4	302.4
75°	233.5	236.2	238.9	241.6	245.7	244.3	247.0	251.1	253.8	255.1	255.1
77.5°	187.6	189.0	193.0	194.4	198.4	197.1	198.4	201.1	205.2	206.5	206.5
80°	141.7	144.4	145.8	148.5	151.2	149.8	152.5	156.6	157.9	159.3	159.3
82.5°	97.2	98.5	101.2	103.9	106.6	108.0	109.3	112.0	113.4	113.4	113.4
85°	54.0	56.7	59.4	60.7	63.4	62.1	66.1	68.8	70.2	70.2	71.5
87.5°	14.8	17.5	18.9	21.6	24.3	24.3	24.3	29.7	29.7	31.0	31.0
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°	4.0	5.4	5.4	6.7	8.1	9.4	13.5	13.5	10.8	9.4	10.8
95°	10.8	12.1	14.8	22.9	28.3	32.4	37.8	36.4	31.0	24.3	22.9
97.5°	20.2	25.6	36.4	55.3	66.1	71.5	76.9	68.8	58.0	47.2	43.2
100°	37.8	51.3	78.3	110.7	122.8	128.2	126.9	109.3	94.5	76.9	67.5
102.5°	71.5	109.3	155.2	191.7	199.8	193.0	182.2	160.6	139.0	114.7	99.9
105°	155.2	220.0	267.3	280.8	284.8	271.3	245.7	218.7	187.6	159.3	137.7
107.5°	309.1	368.5	386.1	376.6	371.2	348.3	315.9	280.8	244.3	209.2	182.2
110°	490.0	500.8	488.7	459.0	442.8	422.5	386.1	345.6	299.7	264.6	232.2



TEST NUMBER: P303175

CATALOG NUMBER: CTW-F-5050-50L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	622.3	599.4	568.3	529.2	510.3	488.7	449.5	410.4	360.4	321.3	286.2
115°	707.4	673.6	635.8	594.0	573.7	550.8	511.6	468.4	418.5	382.0	341.5
117.5°	773.5	731.7	693.9	653.4	634.5	611.5	572.4	525.1	475.2	438.7	398.2
120°	824.8	785.7	746.5	708.7	687.1	668.2	627.7	580.5	530.5	490.0	452.2
122.5°	870.7	834.3	796.5	760.0	739.8	718.2	676.3	630.4	584.5	546.7	508.9
125°	913.9	880.2	842.4	805.9	785.7	764.1	723.6	679.0	633.1	592.6	560.2
127.5°	954.4	922.0	884.2	849.1	828.9	805.9	766.8	723.6	684.4	642.6	610.2
130°	990.9	961.2	924.7	889.6	869.4	847.8	808.6	766.8	729.0	692.5	657.4
132.5°	1023.3	993.6	958.5	926.1	904.5	885.6	847.8	808.6	770.8	737.1	704.7
135°	1054.3	1023.3	990.9	957.1	938.2	920.7	884.2	847.8	812.7	781.6	751.9
137.5°	1082.7	1048.9	1016.5	984.1	966.6	951.7	916.6	882.9	853.2	822.1	792.4
140°	1107.0	1071.9	1042.2	1011.1	994.9	980.1	947.7	915.3	889.6	859.9	831.6
142.5°	1125.9	1090.8	1063.8	1034.1	1019.2	1007.1	976.0	947.7	922.0	896.4	868.0
145°	1140.7	1109.7	1084.0	1055.7	1043.5	1030.0	1001.7	976.0	953.1	927.4	901.8
147.5°	1155.6	1128.6	1102.9	1077.3	1065.1	1053.0	1027.3	1004.4	982.8	959.8	934.2
150°	1167.7	1143.4	1120.5	1097.5	1086.7	1074.6	1051.6	1030.0	1011.1	989.5	965.2
152.5°	1175.8	1155.6	1135.3	1115.1	1104.3	1094.8	1073.2	1055.7	1038.1	1019.2	994.9
155°	1182.6	1166.4	1147.5	1129.9	1120.5	1112.4	1092.1	1075.9	1061.1	1044.9	1023.3
157.5°	1189.3	1173.1	1156.9	1140.7	1132.6	1124.5	1107.0	1094.8	1081.3	1066.5	1046.2
160°	1192.0	1179.9	1163.7	1150.2	1143.4	1136.7	1121.8	1111.0	1100.2	1086.7	1067.8
162.5°	1193.4	1182.6	1169.1	1158.3	1152.9	1147.5	1132.6	1124.5	1115.1	1104.3	1088.1
165°	1193.4	1185.3	1174.5	1165.0	1159.6	1155.6	1143.4	1136.7	1129.9	1120.5	1105.6
167.5°	1192.0	1183.9	1175.8	1167.7	1163.7	1159.6	1150.2	1146.1	1140.7	1132.6	1120.5
170°	1188.0	1182.6	1174.5	1169.1	1166.4	1162.3	1155.6	1152.9	1150.2	1144.8	1132.6
172.5°	1181.2	1177.2	1171.8	1167.7	1166.4	1162.3	1156.9	1155.6	1155.6	1151.5	1142.1
175°	1171.8	1170.4	1166.4	1163.7	1161.0	1159.6	1155.6	1156.9	1158.3	1156.9	1148.8
177.5°	1159.6	1159.6	1156.9	1156.9	1155.6	1154.2	1152.9	1155.6	1159.6	1159.6	1154.2
180°	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8



TEST NUMBER: P303175

CATALOG NUMBER: CTW-F-5050-50L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6
2.5°	1321.6	1316.2	1314.9	1314.9	1313.5	1310.8	1309.5	1310.8	1316.2	1324.3	1316.2
5°	1316.2	1310.8	1308.1	1308.1	1308.1	1304.1	1304.1	1304.1	1310.8	1317.6	1309.5
7.5°	1306.8	1301.4	1300.0	1300.0	1298.7	1296.0	1294.6	1296.0	1301.4	1308.1	1300.0
10°	1294.6	1289.2	1287.9	1286.5	1285.2	1282.5	1281.1	1282.5	1287.9	1293.3	1286.5
12.5°	1278.4	1273.0	1270.3	1271.7	1269.0	1264.9	1264.9	1264.9	1271.7	1275.7	1269.0
15°	1258.2	1251.4	1250.1	1250.1	1248.7	1244.7	1244.7	1244.7	1251.4	1254.1	1246.0
17.5°	1233.9	1228.5	1227.1	1227.1	1224.4	1220.4	1220.4	1219.0	1227.1	1228.5	1223.1
20°	1208.2	1202.8	1200.1	1200.1	1197.4	1193.4	1193.4	1192.0	1201.5	1198.8	1194.7
22.5°	1179.9	1173.1	1170.4	1171.8	1169.1	1163.7	1163.7	1162.3	1170.4	1166.4	1161.0
25°	1148.8	1140.7	1139.4	1138.0	1136.7	1129.9	1129.9	1129.9	1138.0	1131.3	1127.2
27.5°	1112.4	1107.0	1105.6	1101.6	1101.6	1096.2	1096.2	1096.2	1104.3	1094.8	1093.5
30°	1075.9	1070.5	1070.5	1066.5	1065.1	1059.7	1059.7	1059.7	1067.8	1058.4	1055.7
32.5°	1039.5	1032.7	1030.0	1027.3	1027.3	1021.9	1021.9	1021.9	1027.3	1017.9	1015.2
35°	999.0	992.2	992.2	986.8	986.8	981.4	980.1	982.8	984.1	976.0	973.3
37.5°	957.1	950.4	950.4	946.3	946.3	940.9	940.9	945.0	940.9	936.9	931.5
40°	915.3	909.9	907.2	903.1	904.5	900.4	899.1	901.8	899.1	895.0	888.3
42.5°	870.7	865.3	864.0	861.3	861.3	857.2	855.9	858.6	854.5	849.1	845.1
45°	826.2	822.1	820.8	818.1	818.1	812.7	812.7	814.0	808.6	805.9	800.5
47.5°	778.9	776.2	773.5	773.5	772.2	768.1	768.1	768.1	764.1	761.4	754.6
50°	733.0	729.0	727.6	727.6	727.6	723.6	722.2	719.5	716.8	715.5	708.7
52.5°	685.8	683.1	681.7	681.7	683.1	676.3	675.0	672.3	670.9	669.6	661.5
55°	638.5	635.8	633.1	635.8	634.5	629.1	627.7	629.1	625.0	621.0	614.2
57.5°	591.3	587.2	587.2	588.6	587.2	581.8	580.5	581.8	576.4	572.4	567.0
60°	544.0	540.0	538.6	540.0	538.6	533.2	531.9	531.9	527.8	525.1	519.7
62.5°	496.8	492.7	492.7	492.7	491.4	488.7	484.6	484.6	480.6	476.5	472.5
65°	446.8	442.8	444.1	444.1	444.1	441.4	437.4	438.7	432.0	429.3	425.2
67.5°	399.6	395.5	395.5	395.5	395.5	395.5	388.8	387.4	383.4	382.0	378.0
70°	349.6	344.2	345.6	344.2	342.9	341.5	337.5	336.1	332.1	332.1	328.0
72.5°	299.7	297.0	297.0	297.0	295.6	294.3	291.6	290.2	284.8	284.8	282.1
75°	249.7	249.7	248.4	248.4	248.4	247.0	244.3	243.0	237.6	238.9	236.2
77.5°	203.8	203.8	201.1	201.1	201.1	199.8	198.4	194.4	194.4	191.7	190.3
80°	156.6	156.6	155.2	155.2	155.2	153.9	152.5	151.2	148.5	147.1	144.4
82.5°	113.4	112.0	110.7	110.7	109.3	109.3	108.0	106.6	103.9	99.9	98.5
85°	68.8	68.8	67.5	67.5	66.1	66.1	63.4	60.7	58.0	55.3	54.0
87.5°	29.7	29.7	25.6	25.6	24.3	24.3	22.9	21.6	18.9	17.5	16.2
90°	2.7	4.0	4.0	4.0	5.4	5.4	5.4	6.7	6.7	6.7	6.7
92.5°	16.2	20.2	21.6	21.6	21.6	21.6	21.6	21.6	21.6	20.2	20.2
95°	27.0	29.7	36.4	39.1	41.8	44.5	44.5	44.5	44.5	43.2	40.5
97.5°	40.5	43.2	47.2	47.2	48.6	55.3	60.7	63.4	66.1	67.5	67.5
100°	63.4	58.0	63.4	67.5	66.1	66.1	68.8	74.2	79.6	82.3	83.7
102.5°	90.4	81.0	78.3	81.0	83.7	89.1	86.4	87.7	90.4	94.5	98.5
105°	124.2	112.0	102.6	101.2	101.2	106.6	113.4	112.0	110.7	110.7	110.7
107.5°	163.3	145.8	130.9	128.2	125.5	125.5	129.6	137.7	143.1	137.7	135.0
110°	207.9	183.6	168.7	160.6	155.2	149.8	149.8	153.9	160.6	167.4	170.1



TEST NUMBER: P303175

CATALOG NUMBER: CTW-F-5050-50L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	257.8	228.1	207.9	201.1	190.3	178.2	174.1	174.1	178.2	184.9	190.3
115°	309.1	278.1	249.7	241.6	230.8	211.9	201.1	198.4	198.4	201.1	206.5
117.5°	365.8	328.0	297.0	286.2	274.0	252.4	234.9	225.4	221.4	221.4	224.1
120°	415.8	383.4	351.0	336.1	321.3	297.0	274.0	259.2	249.7	244.3	243.0
122.5°	472.5	438.7	403.6	391.5	375.3	346.9	322.6	299.7	284.8	274.0	265.9
125°	523.8	492.7	456.3	441.4	426.6	398.2	373.9	348.3	328.0	310.5	297.0
127.5°	573.7	542.7	507.6	494.1	479.2	449.5	423.9	399.6	378.0	356.4	337.5
130°	623.7	594.0	558.9	544.0	530.5	502.2	473.8	449.5	430.6	409.0	387.4
132.5°	672.3	641.2	608.8	592.6	580.5	552.1	526.5	500.8	479.2	460.3	440.1
135°	718.2	688.5	656.1	639.9	627.7	602.1	576.4	553.5	529.2	510.3	491.4
137.5°	761.4	731.7	703.3	685.8	673.6	650.7	626.4	604.8	580.5	560.2	541.3
140°	801.9	773.5	746.5	731.7	718.2	695.2	673.6	656.1	630.4	611.5	592.6
142.5°	839.7	811.3	785.7	773.5	760.0	738.4	718.2	702.0	683.1	662.8	643.9
145°	873.4	849.1	824.8	812.7	800.5	780.3	761.4	746.5	730.3	710.1	692.5
147.5°	908.5	884.2	861.3	850.5	841.0	820.8	803.2	788.4	776.2	757.3	739.8
150°	940.9	918.0	897.7	886.9	878.8	857.2	843.7	828.9	819.4	801.9	787.0
152.5°	972.0	951.7	931.5	923.4	913.9	893.7	880.2	865.3	859.9	842.4	830.2
155°	1001.7	980.1	963.9	955.8	946.3	927.4	916.6	903.1	899.1	882.9	870.7
157.5°	1028.7	1007.1	992.2	984.1	976.0	959.8	949.0	936.9	934.2	922.0	908.5
160°	1051.6	1031.4	1017.9	1012.5	1004.4	989.5	978.7	969.3	966.6	958.5	945.0
162.5°	1071.9	1054.3	1043.5	1036.8	1030.0	1016.5	1008.4	997.6	997.6	990.9	980.1
165°	1092.1	1075.9	1065.1	1059.7	1054.3	1043.5	1034.1	1027.3	1027.3	1021.9	1011.1
167.5°	1108.3	1093.5	1085.4	1080.0	1075.9	1065.1	1058.4	1051.6	1053.0	1050.3	1039.5
170°	1123.2	1109.7	1102.9	1098.9	1094.8	1085.4	1081.3	1074.6	1075.9	1075.9	1066.5
172.5°	1135.3	1123.2	1117.8	1113.7	1112.4	1102.9	1100.2	1096.2	1097.5	1100.2	1088.1
175°	1143.4	1134.0	1128.6	1127.2	1124.5	1119.1	1115.1	1113.7	1116.4	1120.5	1109.7
177.5°	1150.2	1142.1	1139.4	1139.4	1136.7	1131.3	1128.6	1128.6	1132.6	1138.0	1129.9
180°	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8



TEST NUMBER: P303175

CATALOG NUMBER: CTW-F-5050-50L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6
2.5°	1318.9	1317.6	1316.2	1313.5	1312.2	1309.5	1308.1	1309.5
5°	1310.8	1309.5	1308.1	1306.8	1306.8	1305.4	1305.4	1306.8
7.5°	1301.4	1300.0	1298.7	1297.3	1297.3	1297.3	1297.3	1298.7
10°	1287.9	1285.2	1283.8	1282.5	1281.1	1281.1	1281.1	1282.5
12.5°	1270.3	1267.6	1264.9	1263.6	1263.6	1263.6	1263.6	1266.3
15°	1247.4	1246.0	1244.7	1243.3	1243.3	1242.0	1242.0	1244.7
17.5°	1224.4	1221.7	1219.0	1217.7	1216.3	1216.3	1215.0	1216.3
20°	1193.4	1190.7	1188.0	1186.6	1186.6	1185.3	1185.3	1186.6
22.5°	1159.6	1155.6	1154.2	1152.9	1152.9	1151.5	1151.5	1152.9
25°	1125.9	1120.5	1119.1	1117.8	1117.8	1116.4	1116.4	1116.4
27.5°	1090.8	1085.4	1084.0	1081.3	1082.7	1080.0	1078.6	1080.0
30°	1053.0	1047.6	1046.2	1043.5	1043.5	1040.8	1039.5	1040.8
32.5°	1012.5	1007.1	1005.7	1004.4	1005.7	1000.3	999.0	1001.7
35°	970.6	965.2	965.2	962.5	963.9	958.5	958.5	959.8
37.5°	927.4	922.0	923.4	920.7	920.7	916.6	916.6	918.0
40°	884.2	880.2	877.5	877.5	878.8	873.4	873.4	872.1
42.5°	839.7	835.6	834.3	834.3	832.9	828.9	827.5	828.9
45°	795.1	791.1	791.1	789.7	789.7	784.3	785.7	784.3
47.5°	749.2	746.5	745.2	743.8	743.8	738.4	739.8	738.4
50°	703.3	702.0	700.6	699.3	699.3	693.9	696.6	693.9
52.5°	657.4	656.1	654.7	654.7	653.4	650.7	650.7	648.0
55°	611.5	608.8	608.8	608.8	607.5	603.4	606.1	603.4
57.5°	565.6	562.9	561.6	560.2	560.2	558.9	557.5	556.2
60°	518.4	515.7	515.7	513.0	513.0	513.0	511.6	510.3
62.5°	471.1	468.4	468.4	467.1	467.1	467.1	465.7	464.4
65°	425.2	421.2	421.2	419.8	419.8	419.8	418.5	417.1
67.5°	376.6	373.9	373.9	372.6	373.9	373.9	372.6	369.9
70°	326.7	324.0	324.0	322.6	324.0	324.0	322.6	319.9
72.5°	280.8	278.1	276.7	278.1	278.1	278.1	275.4	274.0
75°	234.9	230.8	230.8	232.2	230.8	232.2	229.5	232.2
77.5°	189.0	184.9	184.9	186.3	184.9	184.9	183.6	186.3
80°	141.7	139.0	139.0	140.4	139.0	139.0	137.7	140.4
82.5°	97.2	95.8	97.2	94.5	91.8	91.8	90.4	93.1
85°	54.0	52.6	51.3	51.3	49.9	49.9	48.6	51.3
87.5°	16.2	17.5	17.5	16.2	16.2	16.2	16.2	17.5
90°	6.7	6.7	6.7	8.1	8.1	9.4	9.4	9.4
92.5°	20.2	20.2	18.9	20.2	18.9	18.9	18.9	18.9
95°	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
97.5°	67.5	68.8	67.5	68.8	67.5	66.1	67.5	66.1
100°	85.0	87.7	87.7	89.1	89.1	89.1	89.1	89.1
102.5°	101.2	103.9	103.9	105.3	105.3	106.6	106.6	105.3
105°	114.7	116.1	117.4	118.8	121.5	124.2	124.2	124.2
107.5°	133.6	136.3	135.0	136.3	137.7	137.7	137.7	137.7
110°	167.4	164.7	163.3	160.6	160.6	160.6	160.6	160.6



TEST NUMBER: P303175

CATALOG NUMBER: CTW-F-5050-50L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	195.7	198.4	198.4	198.4	198.4	197.1	194.4	194.4
115°	213.3	218.7	220.0	221.4	224.1	225.4	225.4	225.4
117.5°	226.8	232.2	233.5	236.2	238.9	241.6	243.0	244.3
120°	244.3	248.4	249.7	249.7	252.4	253.8	256.5	256.5
122.5°	264.6	265.9	265.9	265.9	267.3	268.6	270.0	270.0
125°	291.6	287.5	287.5	284.8	284.8	283.5	284.8	284.8
127.5°	325.3	319.9	317.2	313.2	310.5	306.4	306.4	306.4
130°	372.6	363.1	357.7	351.0	345.6	337.5	337.5	337.5
132.5°	423.9	409.0	405.0	398.2	390.1	382.0	380.7	380.7
135°	476.5	460.3	454.9	448.2	438.7	432.0	426.6	430.6
137.5°	526.5	511.6	510.3	504.9	492.7	484.6	483.3	483.3
140°	577.8	561.6	558.9	553.5	546.7	538.6	534.6	535.9
142.5°	627.7	611.5	608.8	604.8	595.3	588.6	584.5	585.9
145°	679.0	662.8	660.1	654.7	645.3	639.9	634.5	638.5
147.5°	727.6	712.8	708.7	702.0	696.6	689.8	685.8	684.4
150°	774.9	760.0	757.3	750.6	745.2	739.8	734.4	737.1
152.5°	819.4	808.6	803.2	796.5	792.4	787.0	783.0	784.3
155°	861.3	847.8	845.1	839.7	837.0	831.6	828.9	828.9
157.5°	897.7	889.6	885.6	881.5	877.5	874.8	870.7	872.1
160°	936.9	928.8	924.7	922.0	916.6	916.6	912.6	913.9
162.5°	973.3	966.6	962.5	959.8	957.1	955.8	951.7	953.1
165°	1005.7	999.0	997.6	993.6	992.2	992.2	988.2	988.2
167.5°	1035.4	1030.0	1026.0	1024.6	1021.9	1021.9	1019.2	1020.6
170°	1063.8	1058.4	1055.7	1053.0	1050.3	1050.3	1048.9	1048.9
172.5°	1088.1	1084.0	1082.7	1080.0	1078.6	1078.6	1077.3	1077.3
175°	1111.0	1107.0	1105.6	1102.9	1101.6	1100.2	1100.2	1100.2
177.5°	1131.3	1129.9	1127.2	1127.2	1124.5	1121.8	1119.1	1117.8
180°	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8

(END OF REPORT)