

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: P303155

Luminaire Tested: **CTW-F-5050-40L840-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303155
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-5050-40L840-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 4000 LUMEN PACKAGE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6156.3 lumens
Efficiency: N/A
Efficacy: 133.0 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

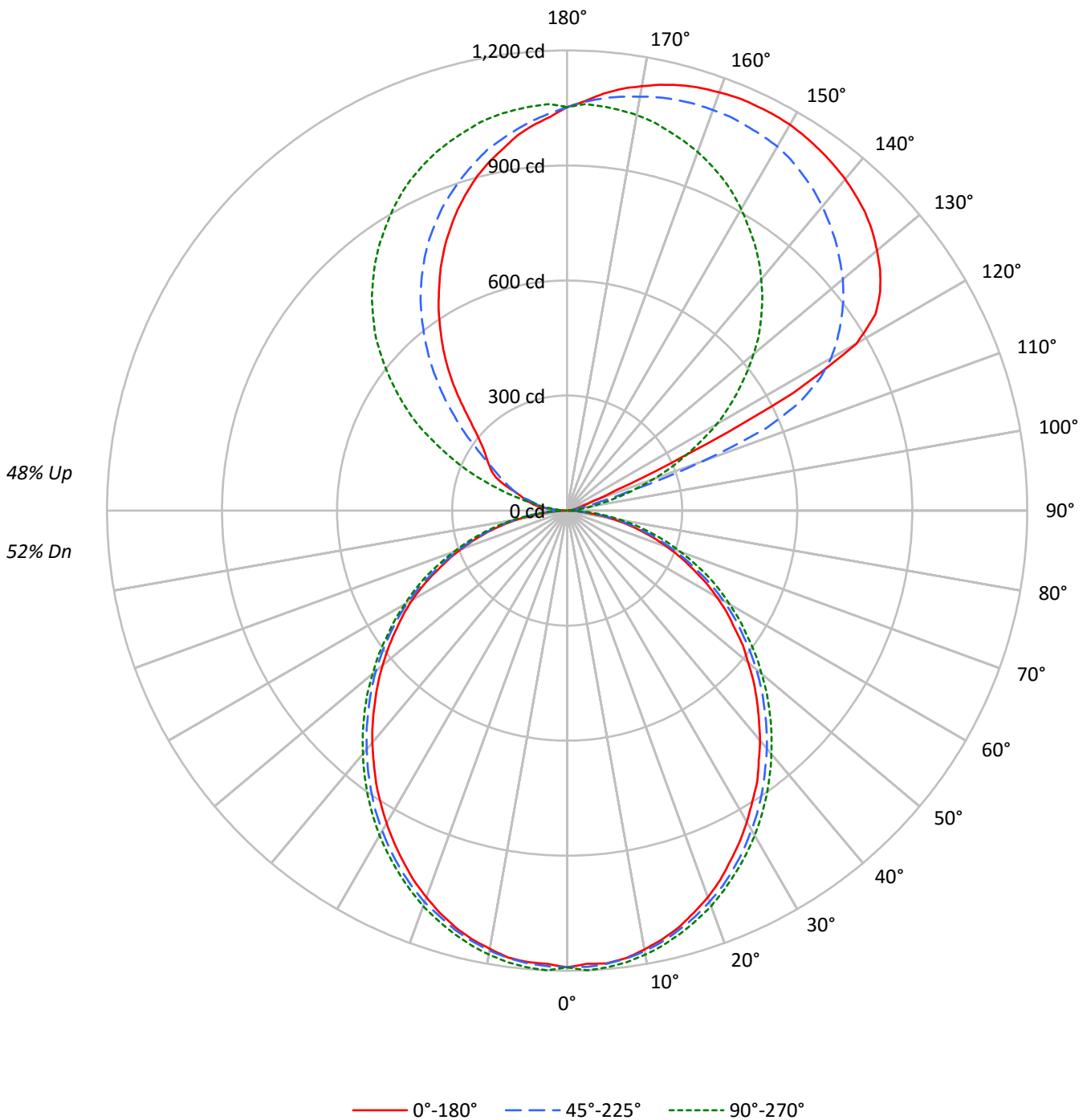
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	17093	17093	17093
5°	17071	17225	17026
10°	16933	17134	16911
15°	16718	16968	16718
20°	16392	16765	16392
25°	15954	16486	16003
30°	15531	16216	15608
35°	15134	15884	15215
40°	14666	15524	14808
45°	14212	15174	14398
50°	13756	14781	14031
55°	13312	14383	13657
60°	12945	14042	13385
65°	12304	13757	12823
70°	11678	13214	12383
75°	10769	12715	11700
80°	9224	11877	10612
85°	5796	10325	8052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	1.8
10°-20°	318.2	5.2
20°-30°	471.1	7.7
30°-40°	553.0	9.0
40°-50°	560.6	9.1
50°-60°	500.1	8.1
60°-70°	381.5	6.2
70°-80°	225.4	3.7
80°-90°	60.8	1.0
90°-100°	30.6	0.5
100°-110°	127.5	2.1
110°-120°	359.6	5.8
120°-130°	524.3	8.5
130°-140°	564.7	9.2
140°-150°	537.3	8.7
150°-160°	440.9	7.2
160°-170°	288.3	4.7
170°-180°	99.9	1.6
0°-30°	901.7	14.6
0°-40°	1454.8	23.6
0°-60°	2515.5	40.9
0°-90°	3183.2	51.7
90°-120°	517.8	8.4
90°-150°	2144.0	34.8
90°-180°	2973.0	48.3
0°-180°	6156.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1191	1191	1191	1191	1191	
5°	1185	1186	1196	1185	1182	112
15°	1125	1131	1142	1131	1125	317
25°	1008	1029	1041	1030	1011	464
35°	864	888	907	891	868	539
45°	700	728	748	732	709	540
55°	532	556	575	566	546	478
65°	362	379	405	388	378	360
75°	194	206	229	217	211	205
85°	35	44	63	55	49	45
90°	2	2	2	6	9	2
95°	8	9	23	43	40	8
105°	34	86	141	101	115	40
115°	333	670	342	184	205	393
125°	997	873	544	295	261	883
135°	1099	991	716	480	384	848
145°	1148	1070	852	667	576	720
155°	1165	1107	957	820	757	539
165°	1148	1108	1024	937	904	325
175°	1092	1079	1058	1021	1009	105
180°	1052	1052	1052	1052	1052	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1183.3	1181.8	1184.9	1187.9	1187.9	1189.4	1191.0	1192.5	1192.5	1195.6	1191.0
5°	1184.9	1181.8	1183.3	1183.3	1181.8	1183.3	1184.9	1187.9	1187.9	1191.0	1186.4
7.5°	1177.2	1175.7	1177.2	1175.7	1174.2	1175.7	1177.2	1178.7	1178.7	1181.8	1178.7
10°	1161.9	1161.9	1161.9	1161.9	1161.9	1163.5	1165.0	1166.5	1166.5	1169.6	1166.5
12.5°	1145.1	1145.1	1145.1	1146.6	1143.6	1145.1	1148.2	1151.2	1151.2	1154.3	1151.2
15°	1125.2	1125.2	1126.8	1128.3	1126.8	1126.8	1128.3	1131.3	1131.3	1134.4	1131.3
17.5°	1099.2	1099.2	1100.8	1103.8	1102.3	1103.8	1105.4	1108.4	1109.9	1109.9	1109.9
20°	1073.3	1071.7	1073.3	1074.8	1074.8	1076.3	1076.3	1080.9	1084.0	1084.0	1085.5
22.5°	1042.7	1039.6	1042.7	1044.2	1044.2	1045.7	1045.7	1050.3	1053.4	1054.9	1059.5
25°	1007.5	1007.5	1009.0	1012.1	1012.1	1013.6	1015.2	1019.7	1022.8	1022.8	1028.9
27.5°	973.9	972.3	973.9	976.9	980.0	981.5	981.5	986.1	990.7	993.8	996.8
30°	937.2	937.2	938.7	941.8	944.8	943.3	944.8	950.9	955.5	958.6	961.6
32.5°	899.0	899.0	900.5	903.5	908.1	908.1	909.7	914.3	917.3	920.4	926.5
35°	863.8	860.7	862.3	865.3	871.4	869.9	871.4	876.0	879.1	883.7	888.3
37.5°	821.0	821.0	822.5	825.6	831.7	830.2	833.2	836.3	840.9	845.5	848.5
40°	782.8	784.3	782.8	785.8	790.4	791.9	791.9	795.0	801.1	805.7	810.3
42.5°	740.0	741.5	743.0	746.1	750.7	750.7	752.2	755.3	759.8	764.4	769.0
45°	700.2	700.2	700.2	703.3	709.4	709.4	712.4	712.4	717.0	723.1	727.7
47.5°	658.9	658.9	658.9	663.5	668.1	668.1	671.2	671.2	677.3	681.9	686.5
50°	616.1	619.2	617.7	620.7	626.8	625.3	628.4	628.4	632.9	639.1	643.6
52.5°	577.9	577.9	574.8	579.4	584.0	584.0	585.5	585.5	591.7	596.3	600.8
55°	532.0	535.1	532.0	536.6	541.2	541.2	544.3	544.3	545.8	551.9	556.5
57.5°	493.8	493.8	490.8	493.8	498.4	498.4	501.5	501.5	504.5	507.6	515.2
60°	451.0	449.5	448.0	452.5	455.6	455.6	458.7	458.7	461.7	463.2	470.9
62.5°	408.2	406.7	406.7	409.7	412.8	411.3	415.8	415.8	418.9	422.0	426.5
65°	362.3	360.8	360.8	363.9	365.4	365.4	368.5	370.0	371.5	376.1	379.2
67.5°	321.1	319.5	318.0	321.1	322.6	322.6	325.6	327.2	330.2	331.8	334.8
70°	278.3	276.7	275.2	278.3	281.3	279.8	282.8	284.4	285.9	289.0	292.0
72.5°	235.4	235.4	235.4	237.0	238.5	238.5	240.0	241.6	244.6	247.7	249.2
75°	194.2	192.6	192.6	195.7	195.7	195.7	198.8	200.3	200.3	204.9	206.4
77.5°	152.9	154.4	152.9	152.9	152.9	154.4	155.9	157.5	160.5	163.6	165.1
80°	111.6	113.1	111.6	113.1	111.6	113.1	116.2	116.2	119.3	122.3	123.8
82.5°	71.9	73.4	71.9	73.4	73.4	73.4	74.9	76.4	79.5	81.0	84.1
85°	35.2	33.6	35.2	35.2	35.2	35.2	38.2	38.2	41.3	42.8	44.3
87.5°	4.6	4.6	4.6	4.6	6.1	4.6	6.1	7.6	7.6	9.2	9.2
90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
92.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
95°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.2	9.2
97.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	13.8	13.8	15.3	16.8
100°	16.8	16.8	18.3	18.3	18.3	18.3	18.3	19.9	21.4	24.5	27.5
102.5°	24.5	24.5	24.5	26.0	26.0	27.5	27.5	30.6	33.6	38.2	47.4
105°	33.6	35.2	35.2	35.2	38.2	38.2	39.8	44.3	52.0	64.2	85.6
107.5°	47.4	48.9	48.9	52.0	55.0	58.1	61.2	74.9	93.3	130.0	183.5
110°	73.4	74.9	76.4	84.1	94.8	104.0	116.2	151.4	206.4	287.4	376.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	137.6	145.2	154.4	175.8	212.5	235.4	261.4	353.2	441.8	519.8	562.6
115°	333.3	353.2	373.0	420.4	483.1	519.8	545.8	625.3	663.5	678.8	669.6
117.5°	665.0	681.9	695.6	721.6	752.2	762.9	767.5	784.3	776.7	764.4	741.5
120°	871.4	877.6	876.0	876.0	876.0	871.4	868.4	857.7	839.3	821.0	795.0
122.5°	954.0	955.5	949.4	941.8	932.6	928.0	921.9	905.1	885.2	863.8	836.3
125°	996.8	996.8	990.7	983.0	972.3	966.2	957.1	941.8	921.9	900.5	873.0
127.5°	1028.9	1027.4	1022.8	1016.7	1004.5	999.9	990.7	973.9	954.0	935.7	908.1
130°	1054.9	1053.4	1047.3	1044.2	1033.5	1025.9	1018.2	1001.4	981.5	963.2	938.7
132.5°	1079.4	1076.3	1070.2	1067.1	1056.4	1050.3	1042.7	1027.4	1007.5	990.7	964.7
135°	1099.2	1094.7	1090.1	1087.0	1077.8	1070.2	1064.1	1048.8	1032.0	1013.6	990.7
137.5°	1114.5	1111.5	1105.4	1102.3	1093.1	1087.0	1080.9	1068.7	1053.4	1035.0	1013.6
140°	1128.3	1123.7	1120.6	1116.1	1108.4	1102.3	1096.2	1085.5	1070.2	1054.9	1035.0
142.5°	1139.0	1135.9	1132.9	1129.8	1120.6	1116.1	1109.9	1100.8	1088.5	1073.3	1054.9
145°	1148.2	1145.1	1142.0	1139.0	1131.3	1126.8	1122.2	1113.0	1102.3	1087.0	1070.2
147.5°	1155.8	1152.8	1149.7	1148.2	1140.5	1135.9	1131.3	1125.2	1113.0	1097.7	1085.5
150°	1161.9	1158.9	1155.8	1152.8	1146.6	1142.0	1140.5	1132.9	1120.6	1108.4	1096.2
152.5°	1165.0	1161.9	1160.4	1157.3	1151.2	1146.6	1145.1	1137.5	1126.8	1113.0	1102.3
155°	1165.0	1163.5	1160.4	1158.9	1151.2	1146.6	1145.1	1137.5	1128.3	1116.1	1106.9
157.5°	1165.0	1161.9	1160.4	1157.3	1149.7	1146.6	1145.1	1139.0	1131.3	1120.6	1111.5
160°	1160.4	1158.9	1157.3	1154.3	1148.2	1145.1	1145.1	1139.0	1131.3	1122.2	1111.5
162.5°	1155.8	1152.8	1151.2	1149.7	1145.1	1143.6	1142.0	1137.5	1129.8	1122.2	1111.5
165°	1148.2	1146.6	1143.6	1142.0	1137.5	1135.9	1134.4	1131.3	1123.7	1119.1	1108.4
167.5°	1137.5	1134.4	1132.9	1129.8	1125.2	1125.2	1125.2	1122.2	1117.6	1114.5	1103.8
170°	1123.7	1120.6	1119.1	1117.6	1114.5	1114.5	1114.5	1113.0	1108.4	1106.9	1096.2
172.5°	1109.9	1108.4	1106.9	1105.4	1100.8	1100.8	1100.8	1100.8	1097.7	1097.7	1088.5
175°	1091.6	1090.1	1088.5	1088.5	1085.5	1087.0	1087.0	1087.0	1085.5	1088.5	1079.4
177.5°	1068.7	1065.6	1068.7	1071.7	1070.2	1071.7	1073.3	1073.3	1071.7	1074.8	1067.1
180°	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1186.4	1187.9	1186.4	1187.9	1187.9	1187.9	1187.9	1192.5	1197.1	1200.1	1198.6
5°	1181.8	1183.3	1181.8	1183.3	1183.3	1183.3	1183.3	1187.9	1194.0	1195.6	1192.5
7.5°	1172.6	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2	1180.3	1184.9	1187.9	1184.9
10°	1160.4	1161.9	1161.9	1161.9	1163.5	1163.5	1163.5	1168.0	1174.2	1175.7	1172.6
12.5°	1145.1	1146.6	1146.6	1146.6	1148.2	1148.2	1148.2	1152.8	1158.9	1160.4	1158.9
15°	1126.8	1128.3	1128.3	1128.3	1129.8	1129.8	1129.8	1134.4	1140.5	1142.0	1140.5
17.5°	1105.4	1105.4	1105.4	1105.4	1108.4	1109.9	1108.4	1113.0	1119.1	1120.6	1119.1
20°	1079.4	1080.9	1080.9	1082.4	1084.0	1085.5	1085.5	1090.1	1096.2	1097.7	1094.7
22.5°	1053.4	1053.4	1054.9	1056.4	1056.4	1058.0	1058.0	1062.5	1068.7	1070.2	1068.7
25°	1024.3	1024.3	1025.9	1028.9	1028.9	1030.4	1030.4	1035.0	1039.6	1041.1	1039.6
27.5°	992.2	990.7	993.8	995.3	996.8	999.9	998.3	1004.5	1009.0	1010.6	1009.0
30°	960.1	958.6	961.6	963.2	964.7	966.2	966.2	972.3	976.9	978.5	976.9
32.5°	925.0	923.4	926.5	929.5	929.5	931.1	931.1	937.2	940.2	943.3	940.2
35°	888.3	885.2	889.8	892.8	891.3	894.4	894.4	900.5	903.5	906.6	903.5
37.5°	851.6	850.0	851.6	854.6	854.6	856.2	856.2	862.3	866.9	868.4	866.9
40°	813.3	811.8	813.3	817.9	816.4	817.9	819.5	824.0	827.1	828.6	827.1
42.5°	772.1	772.1	773.6	778.2	776.7	778.2	779.7	784.3	787.4	788.9	787.4
45°	730.8	732.3	730.8	738.4	735.4	736.9	740.0	741.5	746.1	747.6	744.5
47.5°	689.5	692.6	691.0	697.2	695.6	695.6	697.2	701.7	704.8	706.3	704.8
50°	646.7	649.8	648.2	655.9	652.8	654.3	655.9	658.9	660.5	662.0	662.0
52.5°	603.9	605.4	608.5	613.1	611.5	613.1	614.6	616.1	617.7	620.7	617.7
55°	561.1	562.6	565.7	568.7	570.3	570.3	571.8	574.8	573.3	574.8	576.4
57.5°	518.3	521.3	521.3	527.5	527.5	527.5	527.5	532.0	530.5	533.6	533.6
60°	473.9	473.9	477.0	481.6	483.1	483.1	484.6	487.7	486.2	489.2	490.8
62.5°	429.6	432.7	435.7	438.8	441.8	438.8	443.4	444.9	446.4	448.0	446.4
65°	382.2	385.3	388.3	391.4	391.4	391.4	392.9	399.0	399.0	405.1	403.6
67.5°	337.9	340.9	344.0	347.0	348.6	348.6	350.1	353.2	356.2	357.8	356.2
70°	293.5	296.6	302.7	304.2	307.3	304.2	308.8	310.4	313.4	314.9	313.4
72.5°	250.7	253.8	258.4	259.9	263.0	264.5	266.0	266.0	270.6	272.1	272.1
75°	207.9	211.0	215.6	217.1	220.2	221.7	223.2	223.2	227.8	229.3	227.8
77.5°	166.6	168.2	172.8	174.3	177.3	178.9	180.4	180.4	185.0	186.5	185.0
80°	125.4	126.9	131.5	133.0	136.1	136.1	137.6	139.1	142.2	143.7	142.2
82.5°	85.6	87.1	90.2	93.3	94.8	96.3	97.8	99.4	100.9	102.4	100.9
85°	45.9	47.4	52.0	53.5	56.6	58.1	58.1	59.6	62.7	62.7	62.7
87.5°	10.7	13.8	16.8	18.3	21.4	21.4	22.9	22.9	26.0	27.5	26.0
90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
92.5°	4.6	4.6	6.1	6.1	7.6	7.6	10.7	12.2	10.7	9.2	9.2
95°	10.7	12.2	15.3	19.9	21.4	24.5	30.6	32.1	26.0	22.9	21.4
97.5°	19.9	24.5	32.1	44.3	48.9	55.0	62.7	59.6	48.9	41.3	38.2
100°	35.2	45.9	64.2	87.1	96.3	104.0	105.5	97.8	81.0	67.3	59.6
102.5°	62.7	88.7	126.9	159.0	165.1	169.7	162.1	145.2	120.8	99.4	87.1
105°	125.4	178.9	230.9	250.7	250.7	246.1	223.2	200.3	168.2	140.7	120.8
107.5°	258.4	319.5	350.1	344.0	333.3	318.0	287.4	258.4	220.2	186.5	162.1
110°	435.7	458.7	449.5	426.5	406.7	388.3	350.1	314.9	273.7	238.5	209.5



TEST NUMBER: P303155

CATALOG NUMBER: CTW-F-5050-40L840-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	568.7	551.9	527.5	489.2	470.9	452.5	412.8	373.0	327.2	292.0	258.4
115°	652.8	622.2	588.6	550.4	530.5	510.6	472.4	429.6	380.7	342.5	308.8
117.5°	714.0	677.3	642.1	605.4	584.0	564.1	527.5	481.6	435.7	394.4	360.8
120°	762.9	724.7	689.5	652.8	634.5	616.1	577.9	532.0	487.7	451.0	414.3
122.5°	805.7	767.5	733.8	698.7	681.9	662.0	622.2	577.9	533.6	498.4	464.8
125°	843.9	808.8	775.1	743.0	724.7	703.3	663.5	620.7	579.4	544.3	512.2
127.5°	879.1	847.0	814.9	782.8	766.0	741.5	704.8	663.5	625.3	590.1	559.6
130°	911.2	882.1	850.0	817.9	799.6	778.2	741.5	703.3	668.1	634.5	603.9
132.5°	941.8	912.7	882.1	848.5	831.7	811.8	778.2	741.5	707.9	678.8	648.2
135°	969.3	940.2	909.7	877.6	859.2	842.4	810.3	776.7	744.5	715.5	684.9
137.5°	993.8	963.2	934.1	903.5	886.7	871.4	840.9	808.8	781.2	753.7	723.1
140°	1015.2	983.0	955.5	925.0	911.2	899.0	866.9	840.9	814.9	787.4	761.4
142.5°	1032.0	1001.4	975.4	947.9	935.7	921.9	894.4	869.9	845.5	821.0	795.0
145°	1047.3	1016.7	993.8	967.8	955.5	944.8	918.8	894.4	874.5	851.6	825.6
147.5°	1061.0	1033.5	1010.6	987.6	976.9	966.2	941.8	920.4	902.0	879.1	856.2
150°	1070.2	1047.3	1027.4	1004.5	996.8	986.1	963.2	944.8	926.5	908.1	885.2
152.5°	1077.8	1058.0	1039.6	1021.3	1013.6	1002.9	983.0	967.8	952.5	934.1	912.7
155°	1082.4	1067.1	1050.3	1033.5	1025.9	1018.2	1001.4	986.1	972.3	957.1	935.7
157.5°	1088.5	1074.8	1059.5	1044.2	1038.1	1030.4	1015.2	1002.9	990.7	976.9	958.6
160°	1091.6	1079.4	1065.6	1053.4	1047.3	1042.7	1025.9	1018.2	1007.5	995.3	978.5
162.5°	1093.1	1082.4	1071.7	1061.0	1056.4	1050.3	1038.1	1030.4	1021.3	1010.6	996.8
165°	1093.1	1085.5	1074.8	1067.1	1062.5	1056.4	1047.3	1041.1	1033.5	1024.3	1012.1
167.5°	1091.6	1085.5	1076.3	1070.2	1067.1	1062.5	1053.4	1048.8	1044.2	1038.1	1025.9
170°	1087.0	1082.4	1076.3	1071.7	1067.1	1064.1	1058.0	1054.9	1051.8	1047.3	1036.6
172.5°	1080.9	1077.8	1071.7	1070.2	1067.1	1064.1	1059.5	1059.5	1056.4	1053.4	1045.7
175°	1073.3	1071.7	1067.1	1065.6	1065.6	1062.5	1059.5	1059.5	1061.0	1058.0	1051.8
177.5°	1062.5	1062.5	1059.5	1059.5	1059.5	1058.0	1056.4	1059.5	1061.0	1061.0	1056.4
180°	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8



TEST NUMBER: P303155

CATALOG NUMBER: CTW-F-5050-40L840-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1195.6	1191.0	1187.9	1187.9	1187.9	1184.9	1183.3	1184.9	1189.4	1197.1	1189.4
5°	1189.4	1184.9	1183.3	1183.3	1183.3	1180.3	1178.7	1180.3	1184.9	1192.5	1184.9
7.5°	1181.8	1177.2	1175.7	1175.7	1174.2	1171.1	1171.1	1171.1	1177.2	1181.8	1175.7
10°	1169.6	1165.0	1163.5	1163.5	1161.9	1158.9	1158.9	1158.9	1165.0	1169.6	1163.5
12.5°	1154.3	1149.7	1148.2	1148.2	1146.6	1143.6	1143.6	1143.6	1149.7	1152.8	1148.2
15°	1135.9	1131.3	1129.8	1129.8	1128.3	1125.2	1125.2	1125.2	1131.3	1132.9	1128.3
17.5°	1114.5	1109.9	1108.4	1108.4	1105.4	1103.8	1102.3	1102.3	1108.4	1109.9	1105.4
20°	1091.6	1085.5	1085.5	1084.0	1080.9	1079.4	1079.4	1077.8	1087.0	1084.0	1080.9
22.5°	1064.1	1059.5	1059.5	1058.0	1054.9	1053.4	1051.8	1051.8	1059.5	1053.4	1050.3
25°	1036.6	1030.4	1032.0	1028.9	1027.4	1024.3	1022.8	1022.8	1030.4	1022.8	1021.3
27.5°	1007.5	1001.4	998.3	998.3	996.8	992.2	990.7	990.7	998.3	990.7	989.2
30°	972.3	969.3	966.2	966.2	961.6	960.1	958.6	958.6	964.7	957.1	955.5
32.5°	938.7	934.1	932.6	931.1	929.5	925.0	923.4	925.0	929.5	920.4	918.8
35°	902.0	899.0	897.4	894.4	892.8	889.8	888.3	889.8	891.3	883.7	880.6
37.5°	862.3	860.7	859.2	856.2	854.6	853.1	851.6	853.1	853.1	845.5	842.4
40°	824.0	821.0	819.5	817.9	817.9	814.9	813.3	816.4	813.3	810.3	804.2
42.5°	785.8	781.2	781.2	778.2	778.2	775.1	775.1	776.7	773.6	770.5	764.4
45°	744.5	743.0	741.5	738.4	738.4	735.4	735.4	736.9	732.3	729.3	724.7
47.5°	703.3	703.3	700.2	697.2	698.7	697.2	695.6	695.6	692.6	689.5	684.9
50°	662.0	660.5	655.9	657.4	658.9	654.3	655.9	651.3	651.3	648.2	642.1
52.5°	619.2	617.7	616.1	614.6	616.1	613.1	613.1	610.0	608.5	605.4	600.8
55°	577.9	576.4	573.3	573.3	574.8	570.3	570.3	567.2	565.7	562.6	558.0
57.5°	535.1	533.6	532.0	530.5	532.0	529.0	527.5	525.9	522.9	519.8	516.8
60°	492.3	490.8	487.7	486.2	487.7	484.6	483.1	481.6	480.1	475.5	472.4
62.5°	448.0	444.9	444.9	443.4	444.9	441.8	440.3	438.8	435.7	432.7	432.7
65°	403.6	402.1	402.1	397.5	400.6	397.5	391.4	391.4	388.3	385.3	385.3
67.5°	356.2	354.7	354.7	353.2	353.2	353.2	351.6	348.6	344.0	344.0	344.0
70°	313.4	311.9	311.9	308.8	310.4	308.8	307.3	304.2	301.2	301.2	301.2
72.5°	269.1	267.5	267.5	266.0	267.5	266.0	264.5	261.4	258.4	259.9	258.4
75°	226.3	224.7	226.3	223.2	224.7	223.2	221.7	218.6	217.1	218.6	217.1
77.5°	183.5	183.5	183.5	183.5	181.9	180.4	178.9	177.3	177.3	177.3	174.3
80°	142.2	140.7	140.7	140.7	140.7	139.1	137.6	136.1	136.1	136.1	133.0
82.5°	100.9	100.9	100.9	100.9	99.4	100.9	96.3	94.8	94.8	94.8	91.7
85°	61.2	61.2	62.7	61.2	61.2	59.6	56.6	55.0	55.0	53.5	52.0
87.5°	27.5	24.5	24.5	24.5	22.9	22.9	22.9	19.9	19.9	19.9	16.8
90°	3.1	4.6	4.6	4.6	4.6	6.1	6.1	6.1	6.1	6.1	7.6
92.5°	13.8	18.3	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
95°	24.5	27.5	33.6	36.7	39.8	42.8	42.8	44.3	42.8	41.3	41.3
97.5°	36.7	41.3	42.8	44.3	47.4	53.5	58.1	62.7	65.7	67.3	67.3
100°	56.6	55.0	58.1	62.7	62.7	61.2	65.7	70.3	74.9	79.5	81.0
102.5°	81.0	74.9	73.4	74.9	78.0	84.1	81.0	82.6	84.1	87.1	91.7
105°	110.1	100.9	94.8	93.3	94.8	97.8	104.0	105.5	100.9	102.4	104.0
107.5°	143.7	130.0	120.8	117.7	116.2	116.2	119.3	125.4	130.0	128.4	125.4
110°	185.0	163.6	151.4	145.2	142.2	139.1	139.1	142.2	146.8	152.9	157.5



TEST NUMBER: P303155

CATALOG NUMBER: CTW-F-5050-40L840-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	230.9	204.9	186.5	177.3	172.8	162.1	160.5	162.1	163.6	168.2	174.3
115°	279.8	247.7	224.7	214.0	207.9	191.1	183.5	181.9	183.5	185.0	188.0
117.5°	328.7	296.6	267.5	255.3	246.1	226.3	212.5	207.9	203.3	204.9	204.9
120°	382.2	344.0	316.5	299.7	290.5	266.0	247.7	237.0	227.8	224.7	223.2
122.5°	431.1	397.5	363.9	351.6	336.3	308.8	289.0	272.1	258.4	249.2	244.6
125°	477.0	444.9	414.3	400.6	385.3	354.7	333.3	313.4	295.1	282.8	270.6
127.5°	527.5	493.8	463.2	451.0	435.7	405.1	379.2	360.8	340.9	322.6	305.8
130°	568.7	539.7	510.6	498.4	484.6	455.6	429.6	408.2	383.7	366.9	348.6
132.5°	614.6	584.0	556.5	542.7	529.0	501.5	477.0	455.6	432.7	417.4	397.5
135°	655.9	626.8	597.8	587.1	571.8	547.3	524.4	501.5	480.1	461.7	444.9
137.5°	695.6	666.6	640.6	628.4	614.6	591.7	570.3	553.4	529.0	510.6	492.3
140°	732.3	704.8	680.3	668.1	657.4	632.9	614.6	597.8	574.8	558.0	538.2
142.5°	767.5	741.5	720.1	707.9	695.6	672.7	654.3	639.1	620.7	602.4	585.5
145°	801.1	775.1	755.3	744.5	732.3	710.9	694.1	678.8	666.6	646.7	629.9
147.5°	833.2	807.2	788.9	779.7	769.0	749.1	733.8	718.6	707.9	689.5	674.2
150°	862.3	839.3	822.5	813.3	802.6	784.3	770.5	756.8	747.6	729.3	718.6
152.5°	891.3	869.9	854.6	845.5	836.3	817.9	804.2	790.4	785.8	767.5	758.3
155°	917.3	895.9	882.1	874.5	866.9	848.5	836.3	822.5	819.5	804.2	793.5
157.5°	941.8	921.9	908.1	902.0	894.4	877.6	866.9	854.6	853.1	839.3	830.2
160°	963.2	944.8	932.6	925.0	918.8	905.1	894.4	885.2	882.1	873.0	863.8
162.5°	983.0	967.8	955.5	949.4	944.8	931.1	921.9	912.7	911.2	905.1	894.4
165°	999.9	984.6	975.4	970.8	966.2	954.0	946.4	938.7	937.2	934.1	923.4
167.5°	1015.2	1001.4	993.8	989.2	984.6	975.4	969.3	963.2	963.2	960.1	950.9
170°	1027.4	1015.2	1009.0	1006.0	1002.9	993.8	987.6	983.0	983.0	984.6	973.9
172.5°	1038.1	1028.9	1022.8	1018.2	1016.7	1010.6	1006.0	1001.4	1002.9	1006.0	996.8
175°	1047.3	1038.1	1033.5	1032.0	1030.4	1024.3	1021.3	1019.7	1021.3	1025.9	1018.2
177.5°	1053.4	1047.3	1044.2	1042.7	1042.7	1036.6	1035.0	1035.0	1036.6	1044.2	1035.0
180°	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8



TEST NUMBER: P303155

CATALOG NUMBER: CTW-F-5050-40L840-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1192.5	1191.0	1189.4	1187.9	1186.4	1184.9	1181.8	1183.3
5°	1186.4	1184.9	1183.3	1181.8	1181.8	1181.8	1180.3	1181.8
7.5°	1177.2	1175.7	1174.2	1172.6	1172.6	1174.2	1172.6	1175.7
10°	1165.0	1161.9	1161.9	1158.9	1158.9	1158.9	1158.9	1160.4
12.5°	1148.2	1145.1	1145.1	1142.0	1142.0	1142.0	1143.6	1145.1
15°	1128.3	1126.8	1125.2	1123.7	1123.7	1125.2	1123.7	1125.2
17.5°	1105.4	1102.3	1102.3	1100.8	1100.8	1099.2	1099.2	1100.8
20°	1077.8	1074.8	1074.8	1073.3	1071.7	1071.7	1071.7	1073.3
22.5°	1047.3	1045.7	1044.2	1041.1	1042.7	1042.7	1041.1	1044.2
25°	1016.7	1015.2	1013.6	1012.1	1012.1	1010.6	1009.0	1010.6
27.5°	986.1	983.0	981.5	980.0	978.5	976.9	975.4	976.9
30°	952.5	946.4	947.9	946.4	943.3	941.8	940.2	941.8
32.5°	915.8	912.7	909.7	909.7	906.6	905.1	903.5	905.1
35°	879.1	874.5	873.0	873.0	869.9	868.4	866.9	868.4
37.5°	840.9	836.3	834.8	834.8	831.7	828.6	828.6	828.6
40°	801.1	796.5	796.5	796.5	793.5	790.4	790.4	790.4
42.5°	761.4	758.3	756.8	756.8	753.7	749.1	749.1	750.7
45°	721.6	718.6	717.0	715.5	714.0	709.4	709.4	709.4
47.5°	678.8	678.8	675.8	675.8	672.7	671.2	669.6	669.6
50°	640.6	637.5	634.5	634.5	632.9	628.4	628.4	628.4
52.5°	597.8	596.3	593.2	593.2	590.1	587.1	587.1	587.1
55°	556.5	555.0	551.9	551.9	548.9	547.3	545.8	545.8
57.5°	513.7	513.7	510.6	510.6	506.0	506.0	504.5	507.6
60°	469.4	470.9	467.8	466.3	463.2	463.2	463.2	466.3
62.5°	429.6	428.1	425.0	425.0	423.5	422.0	423.5	423.5
65°	383.7	380.7	379.2	379.2	377.6	376.1	374.6	377.6
67.5°	340.9	339.4	336.3	336.3	336.3	334.8	334.8	336.3
70°	298.1	296.6	295.1	295.1	293.5	293.5	293.5	295.1
72.5°	255.3	255.3	255.3	253.8	252.3	250.7	253.8	252.3
75°	214.0	212.5	212.5	212.5	211.0	209.5	207.9	211.0
77.5°	172.8	171.2	171.2	171.2	169.7	168.2	168.2	169.7
80°	131.5	130.0	130.0	130.0	128.4	128.4	126.9	128.4
82.5°	88.7	88.7	88.7	88.7	85.6	87.1	87.1	85.6
85°	50.5	48.9	48.9	48.9	48.9	48.9	47.4	48.9
87.5°	15.3	15.3	15.3	16.8	15.3	16.8	16.8	16.8
90°	7.6	7.6	7.6	7.6	7.6	7.6	9.2	9.2
92.5°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
95°	39.8	41.3	39.8	39.8	39.8	39.8	39.8	39.8
97.5°	67.3	67.3	67.3	67.3	65.7	64.2	64.2	64.2
100°	84.1	85.6	87.1	87.1	88.7	88.7	88.7	88.7
102.5°	94.8	96.3	96.3	97.8	99.4	99.4	99.4	99.4
105°	105.5	105.5	107.0	108.5	111.6	113.1	114.7	114.7
107.5°	123.8	123.8	125.4	125.4	125.4	126.9	126.9	126.9
110°	155.9	149.8	149.8	148.3	146.8	146.8	146.8	146.8



TEST NUMBER: P303155

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	178.9	180.4	181.9	183.5	181.9	178.9	178.9	178.9
115°	194.2	197.2	200.3	201.8	203.3	203.3	204.9	204.9
117.5°	209.5	212.5	214.0	215.6	218.6	218.6	221.7	221.7
120°	224.7	227.8	227.8	229.3	230.9	232.4	233.9	233.9
122.5°	243.1	244.6	244.6	244.6	246.1	246.1	247.7	247.7
125°	266.0	263.0	261.4	263.0	261.4	261.4	261.4	261.4
127.5°	295.1	289.0	287.4	285.9	282.8	279.8	279.8	279.8
130°	333.3	324.1	319.5	318.0	313.4	307.3	307.3	305.8
132.5°	377.6	366.9	360.8	359.3	351.6	344.0	340.9	339.4
135°	429.6	417.4	409.7	408.2	396.0	388.3	385.3	383.7
137.5°	475.5	463.2	458.7	455.6	448.0	440.3	435.7	434.2
140°	522.9	512.2	504.5	501.5	492.3	487.7	483.1	483.1
142.5°	570.3	559.6	551.9	548.9	541.2	535.1	530.5	530.5
145°	616.1	605.4	597.8	594.7	587.1	581.0	577.9	576.4
147.5°	662.0	651.3	645.2	642.1	634.5	628.4	623.8	623.8
150°	706.3	695.6	689.5	683.4	678.8	672.7	669.6	668.1
152.5°	747.6	738.4	732.3	726.2	721.6	718.6	714.0	714.0
155°	784.3	776.7	770.5	766.0	762.9	758.3	756.8	756.8
157.5°	822.5	813.3	808.8	804.2	801.1	799.6	796.5	796.5
160°	857.7	848.5	845.5	840.9	837.8	834.8	833.2	834.8
162.5°	891.3	885.2	880.6	876.0	874.5	871.4	869.9	869.9
165°	920.4	914.3	911.2	908.1	905.1	903.5	902.0	903.5
167.5°	947.9	941.8	938.7	935.7	934.1	934.1	932.6	932.6
170°	972.3	967.8	966.2	961.6	960.1	960.1	958.6	958.6
172.5°	995.3	992.2	990.7	987.6	987.6	987.6	986.1	987.6
175°	1018.2	1015.2	1013.6	1010.6	1010.6	1009.0	1007.5	1009.0
177.5°	1038.1	1036.6	1033.5	1032.0	1030.4	1028.9	1025.9	1027.4
180°	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8

(END OF REPORT)