

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: P303153

Luminaire Tested: **CTW-F-5050-40L830-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303153
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-5050-40L830-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 4000 LUMEN PACKAGE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5807.9 lumens
Efficiency: N/A
Efficacy: 125.4 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

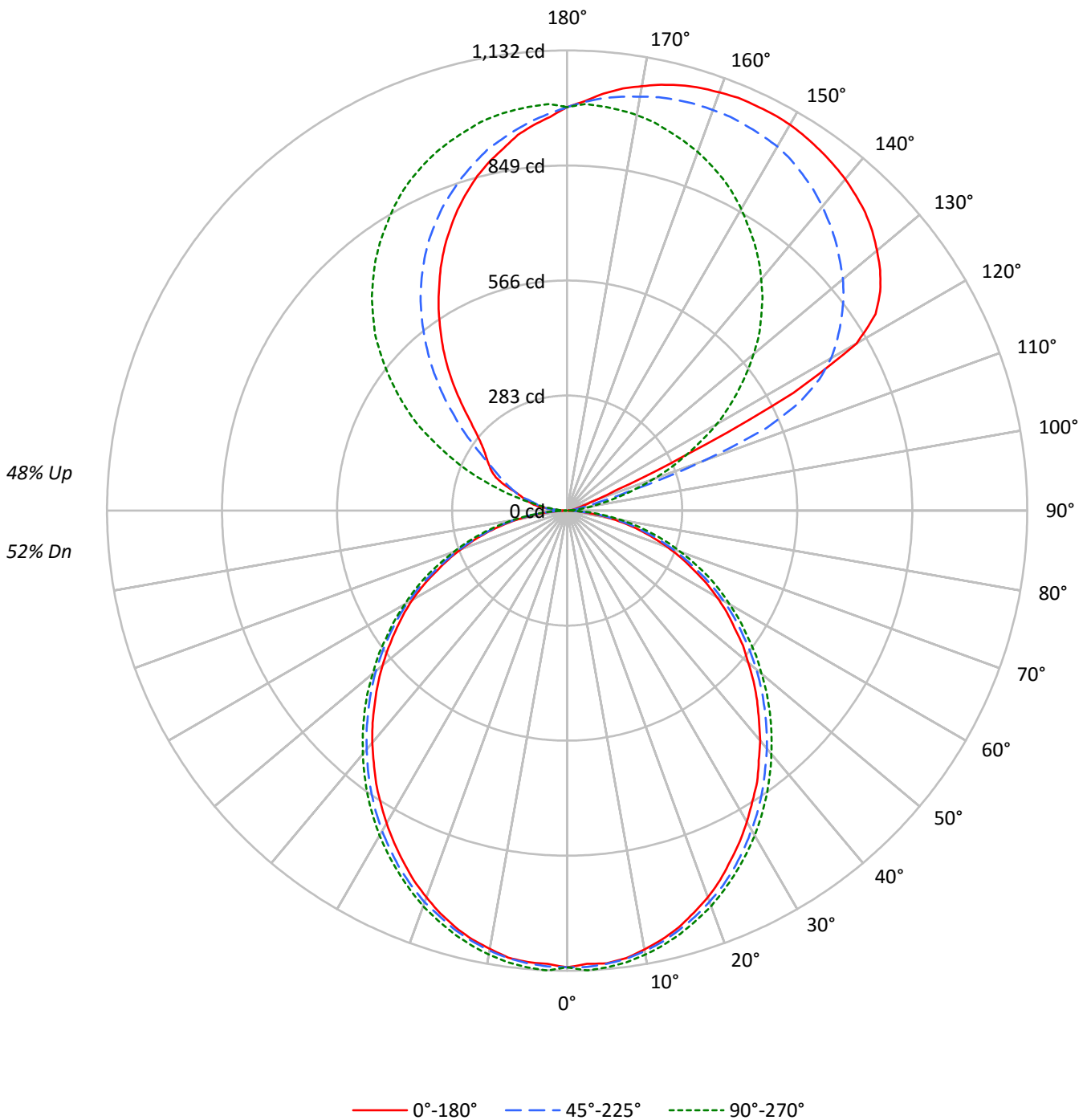
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16126	16126	16126
5°	16104	16249	16062
10°	15975	16163	15953
15°	15772	16008	15772
20°	15464	15817	15464
25°	15052	15554	15098
30°	14651	15298	14724
35°	14277	14985	14353
40°	13836	14645	13971
45°	13408	14315	13583
50°	12979	13944	13236
55°	12558	13569	12884
60°	12213	13247	12627
65°	11607	12979	12100
70°	11015	12467	11682
75°	10159	11994	11035
80°	8703	11207	10017
85°	5467	9732	7608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	1.8
10°-20°	300.2	5.2
20°-30°	444.4	7.7
30°-40°	521.7	9.0
40°-50°	528.9	9.1
50°-60°	471.8	8.1
60°-70°	359.9	6.2
70°-80°	212.7	3.7
80°-90°	57.3	1.0
90°-100°	28.9	0.5
100°-110°	120.3	2.1
110°-120°	339.3	5.8
120°-130°	494.6	8.5
130°-140°	532.7	9.2
140°-150°	506.8	8.7
150°-160°	416.0	7.2
160°-170°	272.0	4.7
170°-180°	94.3	1.6
0°-30°	850.7	14.6
0°-40°	1372.4	23.6
0°-60°	2373.1	40.9
0°-90°	3003.0	51.7
90°-120°	488.5	8.4
90°-150°	2022.6	34.8
90°-180°	2805.0	48.3
0°-180°	5807.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1124	1124	1124	1124	1124	
5°	1118	1119	1128	1118	1115	106
15°	1062	1067	1077	1067	1062	299
25°	950	971	982	972	953	438
35°	815	838	855	841	819	508
45°	661	686	705	691	669	510
55°	502	525	542	534	515	451
65°	342	358	382	366	356	340
75°	183	195	216	205	199	193
85°	33	42	59	52	46	42
90°	1	1	1	6	9	2
95°	7	9	22	40	38	8
105°	32	81	133	95	108	37
115°	314	632	323	173	193	371
125°	940	824	514	278	247	833
135°	1037	935	675	453	362	800
145°	1083	1010	803	629	544	679
155°	1099	1044	903	773	714	508
165°	1083	1046	966	884	852	307
175°	1030	1018	998	964	952	99
180°	992	992	992	992	992	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6
2.5°	1116.3	1114.9	1117.8	1120.7	1120.7	1122.1	1123.6	1125.0	1125.0	1127.9	1123.6
5°	1117.8	1114.9	1116.3	1116.3	1114.9	1116.3	1117.8	1120.7	1120.7	1123.6	1119.2
7.5°	1110.6	1109.1	1110.6	1109.1	1107.7	1109.1	1110.6	1112.0	1112.0	1114.9	1112.0
10°	1096.2	1096.2	1096.2	1096.2	1096.2	1097.6	1099.0	1100.5	1100.5	1103.4	1100.5
12.5°	1080.3	1080.3	1080.3	1081.7	1078.8	1080.3	1083.2	1086.1	1086.1	1088.9	1086.1
15°	1061.5	1061.5	1063.0	1064.4	1063.0	1063.0	1064.4	1067.3	1067.3	1070.2	1067.3
17.5°	1037.0	1037.0	1038.5	1041.3	1039.9	1041.3	1042.8	1045.7	1047.1	1047.1	1047.1
20°	1012.5	1011.1	1012.5	1013.9	1013.9	1015.4	1015.4	1019.7	1022.6	1022.6	1024.0
22.5°	983.7	980.8	983.7	985.1	985.1	986.5	986.5	990.9	993.8	995.2	999.5
25°	950.5	950.5	951.9	954.8	954.8	956.3	957.7	962.0	964.9	964.9	970.7
27.5°	918.8	917.3	918.8	921.6	924.5	926.0	926.0	930.3	934.6	937.5	940.4
30°	884.1	884.1	885.6	888.5	891.3	889.9	891.3	897.1	901.4	904.3	907.2
32.5°	848.1	848.1	849.5	852.4	856.7	856.7	858.2	862.5	865.4	868.3	874.0
35°	814.9	812.0	813.5	816.3	822.1	820.7	822.1	826.4	829.3	833.7	838.0
37.5°	774.5	774.5	776.0	778.8	784.6	783.2	786.1	788.9	793.3	797.6	800.5
40°	738.5	739.9	738.5	741.3	745.7	747.1	747.1	750.0	755.8	760.1	764.4
42.5°	698.1	699.5	701.0	703.8	708.2	708.2	709.6	712.5	716.8	721.2	725.5
45°	660.6	660.6	660.6	663.5	669.2	669.2	672.1	672.1	676.4	682.2	686.5
47.5°	621.6	621.6	621.6	626.0	630.3	630.3	633.2	633.2	638.9	643.3	647.6
50°	581.3	584.1	582.7	585.6	591.3	589.9	592.8	592.8	597.1	602.9	607.2
52.5°	545.2	545.2	542.3	546.6	551.0	551.0	552.4	552.4	558.2	562.5	566.8
55°	501.9	504.8	501.9	506.3	510.6	510.6	513.5	513.5	514.9	520.7	525.0
57.5°	465.9	465.9	463.0	465.9	470.2	470.2	473.1	473.1	476.0	478.8	486.1
60°	425.5	424.0	422.6	426.9	429.8	429.8	432.7	432.7	435.6	437.0	444.2
62.5°	385.1	383.7	383.7	386.5	389.4	388.0	392.3	392.3	395.2	398.1	402.4
65°	341.8	340.4	340.4	343.3	344.7	344.7	347.6	349.0	350.5	354.8	357.7
67.5°	302.9	301.4	300.0	302.9	304.3	304.3	307.2	308.7	311.5	313.0	315.9
70°	262.5	261.1	259.6	262.5	265.4	263.9	266.8	268.3	269.7	272.6	275.5
72.5°	222.1	222.1	222.1	223.6	225.0	225.0	226.4	227.9	230.8	233.7	235.1
75°	183.2	181.7	181.7	184.6	184.6	184.6	187.5	188.9	188.9	193.3	194.7
77.5°	144.2	145.7	144.2	144.2	144.2	145.7	147.1	148.6	151.4	154.3	155.8
80°	105.3	106.7	105.3	106.7	105.3	106.7	109.6	109.6	112.5	115.4	116.8
82.5°	67.8	69.2	67.8	69.2	69.2	69.2	70.7	72.1	75.0	76.4	79.3
85°	33.2	31.7	33.2	33.2	33.2	33.2	36.1	36.1	38.9	40.4	41.8
87.5°	4.3	4.3	4.3	4.3	5.8	4.3	5.8	7.2	7.2	8.7	8.7
90°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
92.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
95°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	8.7	8.7
97.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	13.0	13.0	14.4	15.9
100°	15.9	15.9	17.3	17.3	17.3	17.3	17.3	18.8	20.2	23.1	26.0
102.5°	23.1	23.1	23.1	24.5	24.5	26.0	26.0	28.8	31.7	36.1	44.7
105°	31.7	33.2	33.2	33.2	36.1	36.1	37.5	41.8	49.0	60.6	80.8
107.5°	44.7	46.2	46.2	49.0	51.9	54.8	57.7	70.7	88.0	122.6	173.1
110°	69.2	70.7	72.1	79.3	89.4	98.1	109.6	142.8	194.7	271.2	354.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	129.8	137.0	145.7	165.9	200.5	222.1	246.6	333.2	416.8	490.4	530.8
115°	314.4	333.2	351.9	396.6	455.8	490.4	514.9	589.9	626.0	640.4	631.7
117.5°	627.4	643.3	656.3	680.8	709.6	719.7	724.0	739.9	732.7	721.2	699.5
120°	822.1	827.9	826.4	826.4	826.4	822.1	819.2	809.1	791.8	774.5	750.0
122.5°	900.0	901.4	895.7	888.5	879.8	875.5	869.7	853.8	835.1	814.9	788.9
125°	940.4	940.4	934.6	927.4	917.3	911.5	902.9	888.5	869.7	849.5	823.6
127.5°	970.7	969.2	964.9	959.1	947.6	943.3	934.6	918.8	900.0	882.7	856.7
130°	995.2	993.8	988.0	985.1	975.0	967.8	960.6	944.7	926.0	908.7	885.6
132.5°	1018.3	1015.4	1009.6	1006.7	996.6	990.9	983.7	969.2	950.5	934.6	910.1
135°	1037.0	1032.7	1028.4	1025.5	1016.8	1009.6	1003.8	989.4	973.6	956.3	934.6
137.5°	1051.4	1048.6	1042.8	1039.9	1031.3	1025.5	1019.7	1008.2	993.8	976.4	956.3
140°	1064.4	1060.1	1057.2	1052.9	1045.7	1039.9	1034.1	1024.0	1009.6	995.2	976.4
142.5°	1074.5	1071.6	1068.8	1065.9	1057.2	1052.9	1047.1	1038.5	1026.9	1012.5	995.2
145°	1083.2	1080.3	1077.4	1074.5	1067.3	1063.0	1058.7	1050.0	1039.9	1025.5	1009.6
147.5°	1090.4	1087.5	1084.6	1083.2	1076.0	1071.6	1067.3	1061.5	1050.0	1035.6	1024.0
150°	1096.2	1093.3	1090.4	1087.5	1081.7	1077.4	1076.0	1068.8	1057.2	1045.7	1034.1
152.5°	1099.0	1096.2	1094.7	1091.8	1086.1	1081.7	1080.3	1073.1	1063.0	1050.0	1039.9
155°	1099.0	1097.6	1094.7	1093.3	1086.1	1081.7	1080.3	1073.1	1064.4	1052.9	1044.2
157.5°	1099.0	1096.2	1094.7	1091.8	1084.6	1081.7	1080.3	1074.5	1067.3	1057.2	1048.6
160°	1094.7	1093.3	1091.8	1088.9	1083.2	1080.3	1080.3	1074.5	1067.3	1058.7	1048.6
162.5°	1090.4	1087.5	1086.1	1084.6	1080.3	1078.8	1077.4	1073.1	1065.9	1058.7	1048.6
165°	1083.2	1081.7	1078.8	1077.4	1073.1	1071.6	1070.2	1067.3	1060.1	1055.8	1045.7
167.5°	1073.1	1070.2	1068.8	1065.9	1061.5	1061.5	1061.5	1058.7	1054.3	1051.4	1041.3
170°	1060.1	1057.2	1055.8	1054.3	1051.4	1051.4	1051.4	1050.0	1045.7	1044.2	1034.1
172.5°	1047.1	1045.7	1044.2	1042.8	1038.5	1038.5	1038.5	1038.5	1035.6	1035.6	1026.9
175°	1029.8	1028.4	1026.9	1026.9	1024.0	1025.5	1025.5	1025.5	1024.0	1026.9	1018.3
177.5°	1008.2	1005.3	1008.2	1011.1	1009.6	1011.1	1012.5	1012.5	1011.1	1013.9	1006.7
180°	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6
2.5°	1119.2	1120.7	1119.2	1120.7	1120.7	1120.7	1120.7	1125.0	1129.3	1132.2	1130.8
5°	1114.9	1116.3	1114.9	1116.3	1116.3	1116.3	1116.3	1120.7	1126.4	1127.9	1125.0
7.5°	1106.3	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1113.5	1117.8	1120.7	1117.8
10°	1094.7	1096.2	1096.2	1096.2	1097.6	1097.6	1097.6	1101.9	1107.7	1109.1	1106.3
12.5°	1080.3	1081.7	1081.7	1081.7	1083.2	1083.2	1083.2	1087.5	1093.3	1094.7	1093.3
15°	1063.0	1064.4	1064.4	1064.4	1065.9	1065.9	1065.9	1070.2	1076.0	1077.4	1076.0
17.5°	1042.8	1042.8	1042.8	1042.8	1045.7	1047.1	1045.7	1050.0	1055.8	1057.2	1055.8
20°	1018.3	1019.7	1019.7	1021.2	1022.6	1024.0	1024.0	1028.4	1034.1	1035.6	1032.7
22.5°	993.8	993.8	995.2	996.6	996.6	998.1	998.1	1002.4	1008.2	1009.6	1008.2
25°	966.3	966.3	967.8	970.7	970.7	972.1	972.1	976.4	980.8	982.2	980.8
27.5°	936.1	934.6	937.5	938.9	940.4	943.3	941.8	947.6	951.9	953.4	951.9
30°	905.8	904.3	907.2	908.7	910.1	911.5	911.5	917.3	921.6	923.1	921.6
32.5°	872.6	871.2	874.0	876.9	876.9	878.4	878.4	884.1	887.0	889.9	887.0
35°	838.0	835.1	839.4	842.3	840.9	843.8	843.8	849.5	852.4	855.3	852.4
37.5°	803.4	801.9	803.4	806.3	806.3	807.7	807.7	813.5	817.8	819.2	817.8
40°	767.3	765.9	767.3	771.6	770.2	771.6	773.1	777.4	780.3	781.7	780.3
42.5°	728.4	728.4	729.8	734.1	732.7	734.1	735.6	739.9	742.8	744.2	742.8
45°	689.4	690.9	689.4	696.6	693.8	695.2	698.1	699.5	703.8	705.3	702.4
47.5°	650.5	653.4	651.9	657.7	656.3	656.3	657.7	662.0	664.9	666.3	664.9
50°	610.1	613.0	611.5	618.8	615.9	617.3	618.8	621.6	623.1	624.5	624.5
52.5°	569.7	571.2	574.0	578.4	576.9	578.4	579.8	581.3	582.7	585.6	582.7
55°	529.3	530.8	533.7	536.5	538.0	538.0	539.4	542.3	540.9	542.3	543.8
57.5°	488.9	491.8	491.8	497.6	497.6	497.6	497.6	501.9	500.5	503.4	503.4
60°	447.1	447.1	450.0	454.3	455.8	455.8	457.2	460.1	458.7	461.5	463.0
62.5°	405.3	408.2	411.1	413.9	416.8	413.9	418.3	419.7	421.2	422.6	421.2
65°	360.6	363.5	366.3	369.2	369.2	369.2	370.7	376.4	376.4	382.2	380.8
67.5°	318.8	321.6	324.5	327.4	328.8	328.8	330.3	333.2	336.1	337.5	336.1
70°	276.9	279.8	285.6	287.0	289.9	287.0	291.3	292.8	295.7	297.1	295.7
72.5°	236.5	239.4	243.8	245.2	248.1	249.5	251.0	251.0	255.3	256.7	256.7
75°	196.2	199.0	203.4	204.8	207.7	209.1	210.6	210.6	214.9	216.3	214.9
77.5°	157.2	158.7	163.0	164.4	167.3	168.8	170.2	170.2	174.5	176.0	174.5
80°	118.3	119.7	124.0	125.5	128.4	128.4	129.8	131.3	134.1	135.6	134.1
82.5°	80.8	82.2	85.1	88.0	89.4	90.9	92.3	93.8	95.2	96.6	95.2
85°	43.3	44.7	49.0	50.5	53.4	54.8	54.8	56.3	59.1	59.1	59.1
87.5°	10.1	13.0	15.9	17.3	20.2	20.2	21.6	21.6	24.5	26.0	24.5
90°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
92.5°	4.3	4.3	5.8	5.8	7.2	7.2	10.1	11.5	10.1	8.7	8.7
95°	10.1	11.5	14.4	18.8	20.2	23.1	28.8	30.3	24.5	21.6	20.2
97.5°	18.8	23.1	30.3	41.8	46.2	51.9	59.1	56.3	46.2	38.9	36.1
100°	33.2	43.3	60.6	82.2	90.9	98.1	99.5	92.3	76.4	63.5	56.3
102.5°	59.1	83.7	119.7	150.0	155.8	160.1	152.9	137.0	113.9	93.8	82.2
105°	118.3	168.8	217.8	236.5	236.5	232.2	210.6	188.9	158.7	132.7	113.9
107.5°	243.8	301.4	330.3	324.5	314.4	300.0	271.2	243.8	207.7	176.0	152.9
110°	411.1	432.7	424.0	402.4	383.7	366.3	330.3	297.1	258.2	225.0	197.6



TEST NUMBER: P303153

CATALOG NUMBER: CTW-F-5050-40L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	536.5	520.7	497.6	461.5	444.2	426.9	389.4	351.9	308.7	275.5	243.8
115°	615.9	587.0	555.3	519.2	500.5	481.7	445.7	405.3	359.1	323.1	291.3
117.5°	673.6	638.9	605.8	571.2	551.0	532.2	497.6	454.3	411.1	372.1	340.4
120°	719.7	683.7	650.5	615.9	598.6	581.3	545.2	501.9	460.1	425.5	390.9
122.5°	760.1	724.0	692.3	659.1	643.3	624.5	587.0	545.2	503.4	470.2	438.5
125°	796.2	763.0	731.3	701.0	683.7	663.5	626.0	585.6	546.6	513.5	483.2
127.5°	829.3	799.0	768.8	738.5	722.6	699.5	664.9	626.0	589.9	556.7	527.9
130°	859.6	832.2	801.9	771.6	754.3	734.1	699.5	663.5	630.3	598.6	569.7
132.5°	888.5	861.1	832.2	800.5	784.6	765.9	734.1	699.5	667.8	640.4	611.5
135°	914.4	887.0	858.2	827.9	810.6	794.7	764.4	732.7	702.4	675.0	646.2
137.5°	937.5	908.7	881.3	852.4	836.5	822.1	793.3	763.0	737.0	711.1	682.2
140°	957.7	927.4	901.4	872.6	859.6	848.1	817.8	793.3	768.8	742.8	718.3
142.5°	973.6	944.7	920.2	894.2	882.7	869.7	843.8	820.7	797.6	774.5	750.0
145°	988.0	959.1	937.5	913.0	901.4	891.3	866.8	843.8	825.0	803.4	778.8
147.5°	1001.0	975.0	953.4	931.7	921.6	911.5	888.5	868.3	851.0	829.3	807.7
150°	1009.6	988.0	969.2	947.6	940.4	930.3	908.7	891.3	874.0	856.7	835.1
152.5°	1016.8	998.1	980.8	963.5	956.3	946.2	927.4	913.0	898.6	881.3	861.1
155°	1021.2	1006.7	990.9	975.0	967.8	960.6	944.7	930.3	917.3	902.9	882.7
157.5°	1026.9	1013.9	999.5	985.1	979.3	972.1	957.7	946.2	934.6	921.6	904.3
160°	1029.8	1018.3	1005.3	993.8	988.0	983.7	967.8	960.6	950.5	938.9	923.1
162.5°	1031.3	1021.2	1011.1	1001.0	996.6	990.9	979.3	972.1	963.5	953.4	940.4
165°	1031.3	1024.0	1013.9	1006.7	1002.4	996.6	988.0	982.2	975.0	966.3	954.8
167.5°	1029.8	1024.0	1015.4	1009.6	1006.7	1002.4	993.8	989.4	985.1	979.3	967.8
170°	1025.5	1021.2	1015.4	1011.1	1006.7	1003.8	998.1	995.2	992.3	988.0	977.9
172.5°	1019.7	1016.8	1011.1	1009.6	1006.7	1003.8	999.5	999.5	996.6	993.8	986.5
175°	1012.5	1011.1	1006.7	1005.3	1005.3	1002.4	999.5	999.5	1001.0	998.1	992.3
177.5°	1002.4	1002.4	999.5	999.5	999.5	998.1	996.6	999.5	1001.0	1001.0	996.6
180°	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3



TEST NUMBER: P303153

CATALOG NUMBER: CTW-F-5050-40L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6
2.5°	1127.9	1123.6	1120.7	1120.7	1120.7	1117.8	1116.3	1117.8	1122.1	1129.3	1122.1
5°	1122.1	1117.8	1116.3	1116.3	1116.3	1113.5	1112.0	1113.5	1117.8	1125.0	1117.8
7.5°	1114.9	1110.6	1109.1	1109.1	1107.7	1104.8	1104.8	1104.8	1110.6	1114.9	1109.1
10°	1103.4	1099.0	1097.6	1097.6	1096.2	1093.3	1093.3	1093.3	1099.0	1103.4	1097.6
12.5°	1088.9	1084.6	1083.2	1083.2	1081.7	1078.8	1078.8	1078.8	1084.6	1087.5	1083.2
15°	1071.6	1067.3	1065.9	1065.9	1064.4	1061.5	1061.5	1061.5	1067.3	1068.8	1064.4
17.5°	1051.4	1047.1	1045.7	1045.7	1042.8	1041.3	1039.9	1039.9	1045.7	1047.1	1042.8
20°	1029.8	1024.0	1024.0	1022.6	1019.7	1018.3	1018.3	1016.8	1025.5	1022.6	1019.7
22.5°	1003.8	999.5	999.5	998.1	995.2	993.8	992.3	992.3	999.5	993.8	990.9
25°	977.9	972.1	973.6	970.7	969.2	966.3	964.9	964.9	972.1	964.9	963.5
27.5°	950.5	944.7	941.8	941.8	940.4	936.1	934.6	934.6	941.8	934.6	933.2
30°	917.3	914.4	911.5	911.5	907.2	905.8	904.3	904.3	910.1	902.9	901.4
32.5°	885.6	881.3	879.8	878.4	876.9	872.6	871.2	872.6	876.9	868.3	866.8
35°	851.0	848.1	846.6	843.8	842.3	839.4	838.0	839.4	840.9	833.7	830.8
37.5°	813.5	812.0	810.6	807.7	806.3	804.8	803.4	804.8	804.8	797.6	794.7
40°	777.4	774.5	773.1	771.6	771.6	768.8	767.3	770.2	767.3	764.4	758.7
42.5°	741.3	737.0	737.0	734.1	734.1	731.3	731.3	732.7	729.8	726.9	721.2
45°	702.4	701.0	699.5	696.6	696.6	693.8	693.8	695.2	690.9	688.0	683.7
47.5°	663.5	663.5	660.6	657.7	659.1	657.7	656.3	656.3	653.4	650.5	646.2
50°	624.5	623.1	618.8	620.2	621.6	617.3	618.8	614.4	614.4	611.5	605.8
52.5°	584.1	582.7	581.3	579.8	581.3	578.4	578.4	575.5	574.0	571.2	566.8
55°	545.2	543.8	540.9	540.9	542.3	538.0	538.0	535.1	533.7	530.8	526.4
57.5°	504.8	503.4	501.9	500.5	501.9	499.0	497.6	496.2	493.3	490.4	487.5
60°	464.4	463.0	460.1	458.7	460.1	457.2	455.8	454.3	452.9	448.6	445.7
62.5°	422.6	419.7	419.7	418.3	419.7	416.8	415.4	413.9	411.1	408.2	408.2
65°	380.8	379.3	379.3	375.0	377.9	375.0	369.2	369.2	366.3	363.5	363.5
67.5°	336.1	334.6	334.6	333.2	333.2	333.2	331.7	328.8	324.5	324.5	324.5
70°	295.7	294.2	294.2	291.3	292.8	291.3	289.9	287.0	284.1	284.1	284.1
72.5°	253.8	252.4	252.4	251.0	252.4	251.0	249.5	246.6	243.8	245.2	243.8
75°	213.5	212.0	213.5	210.6	212.0	210.6	209.1	206.3	204.8	206.3	204.8
77.5°	173.1	173.1	173.1	173.1	171.6	170.2	168.8	167.3	167.3	167.3	164.4
80°	134.1	132.7	132.7	132.7	132.7	131.3	129.8	128.4	128.4	128.4	125.5
82.5°	95.2	95.2	95.2	95.2	93.8	95.2	90.9	89.4	89.4	89.4	86.5
85°	57.7	57.7	59.1	57.7	57.7	56.3	53.4	51.9	51.9	50.5	49.0
87.5°	26.0	23.1	23.1	23.1	21.6	21.6	21.6	18.8	18.8	18.8	15.9
90°	2.9	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.8	5.8	7.2
92.5°	13.0	17.3	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
95°	23.1	26.0	31.7	34.6	37.5	40.4	40.4	41.8	40.4	38.9	38.9
97.5°	34.6	38.9	40.4	41.8	44.7	50.5	54.8	59.1	62.0	63.5	63.5
100°	53.4	51.9	54.8	59.1	59.1	57.7	62.0	66.3	70.7	75.0	76.4
102.5°	76.4	70.7	69.2	70.7	73.6	79.3	76.4	77.9	79.3	82.2	86.5
105°	103.8	95.2	89.4	88.0	89.4	92.3	98.1	99.5	95.2	96.6	98.1
107.5°	135.6	122.6	113.9	111.1	109.6	109.6	112.5	118.3	122.6	121.2	118.3
110°	174.5	154.3	142.8	137.0	134.1	131.3	131.3	134.1	138.5	144.2	148.6



TEST NUMBER: P303153

CATALOG NUMBER: CTW-F-5050-40L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	217.8	193.3	176.0	167.3	163.0	152.9	151.4	152.9	154.3	158.7	164.4
115°	263.9	233.7	212.0	201.9	196.2	180.3	173.1	171.6	173.1	174.5	177.4
117.5°	310.1	279.8	252.4	240.9	232.2	213.5	200.5	196.2	191.8	193.3	193.3
120°	360.6	324.5	298.6	282.7	274.0	251.0	233.7	223.6	214.9	212.0	210.6
122.5°	406.7	375.0	343.3	331.7	317.3	291.3	272.6	256.7	243.8	235.1	230.8
125°	450.0	419.7	390.9	377.9	363.5	334.6	314.4	295.7	278.4	266.8	255.3
127.5°	497.6	465.9	437.0	425.5	411.1	382.2	357.7	340.4	321.6	304.3	288.5
130°	536.5	509.1	481.7	470.2	457.2	429.8	405.3	385.1	362.0	346.2	328.8
132.5°	579.8	551.0	525.0	512.0	499.0	473.1	450.0	429.8	408.2	393.8	375.0
135°	618.8	591.3	563.9	553.8	539.4	516.3	494.7	473.1	452.9	435.6	419.7
137.5°	656.3	628.8	604.3	592.8	579.8	558.2	538.0	522.1	499.0	481.7	464.4
140°	690.9	664.9	641.8	630.3	620.2	597.1	579.8	563.9	542.3	526.4	507.7
142.5°	724.0	699.5	679.3	667.8	656.3	634.6	617.3	602.9	585.6	568.3	552.4
145°	755.8	731.3	712.5	702.4	690.9	670.7	654.8	640.4	628.8	610.1	594.2
147.5°	786.1	761.5	744.2	735.6	725.5	706.7	692.3	677.9	667.8	650.5	636.1
150°	813.5	791.8	776.0	767.3	757.2	739.9	726.9	713.9	705.3	688.0	677.9
152.5°	840.9	820.7	806.3	797.6	788.9	771.6	758.7	745.7	741.3	724.0	715.4
155°	865.4	845.2	832.2	825.0	817.8	800.5	788.9	776.0	773.1	758.7	748.6
157.5°	888.5	869.7	856.7	851.0	843.8	827.9	817.8	806.3	804.8	791.8	783.2
160°	908.7	891.3	879.8	872.6	866.8	853.8	843.8	835.1	832.2	823.6	814.9
162.5°	927.4	913.0	901.4	895.7	891.3	878.4	869.7	861.1	859.6	853.8	843.8
165°	943.3	928.8	920.2	915.9	911.5	900.0	892.8	885.6	884.1	881.3	871.2
167.5°	957.7	944.7	937.5	933.2	928.8	920.2	914.4	908.7	908.7	905.8	897.1
170°	969.2	957.7	951.9	949.0	946.2	937.5	931.7	927.4	927.4	928.8	918.8
172.5°	979.3	970.7	964.9	960.6	959.1	953.4	949.0	944.7	946.2	949.0	940.4
175°	988.0	979.3	975.0	973.6	972.1	966.3	963.5	962.0	963.5	967.8	960.6
177.5°	993.8	988.0	985.1	983.7	983.7	977.9	976.4	976.4	977.9	985.1	976.4
180°	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3



TEST NUMBER: P303153

CATALOG NUMBER: CTW-F-5050-40L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6	1123.6
2.5°	1125.0	1123.6	1122.1	1120.7	1119.2	1117.8	1114.9	1116.3
5°	1119.2	1117.8	1116.3	1114.9	1114.9	1114.9	1113.5	1114.9
7.5°	1110.6	1109.1	1107.7	1106.3	1106.3	1107.7	1106.3	1109.1
10°	1099.0	1096.2	1096.2	1093.3	1093.3	1093.3	1093.3	1094.7
12.5°	1083.2	1080.3	1080.3	1077.4	1077.4	1077.4	1078.8	1080.3
15°	1064.4	1063.0	1061.5	1060.1	1060.1	1061.5	1060.1	1061.5
17.5°	1042.8	1039.9	1039.9	1038.5	1038.5	1037.0	1037.0	1038.5
20°	1016.8	1013.9	1013.9	1012.5	1011.1	1011.1	1011.1	1012.5
22.5°	988.0	986.5	985.1	982.2	983.7	983.7	982.2	985.1
25°	959.1	957.7	956.3	954.8	954.8	953.4	951.9	953.4
27.5°	930.3	927.4	926.0	924.5	923.1	921.6	920.2	921.6
30°	898.6	892.8	894.2	892.8	889.9	888.5	887.0	888.5
32.5°	863.9	861.1	858.2	858.2	855.3	853.8	852.4	853.8
35°	829.3	825.0	823.6	823.6	820.7	819.2	817.8	819.2
37.5°	793.3	788.9	787.5	787.5	784.6	781.7	781.7	781.7
40°	755.8	751.4	751.4	751.4	748.6	745.7	745.7	745.7
42.5°	718.3	715.4	713.9	713.9	711.1	706.7	706.7	708.2
45°	680.8	677.9	676.4	675.0	673.6	669.2	669.2	669.2
47.5°	640.4	640.4	637.5	637.5	634.6	633.2	631.7	631.7
50°	604.3	601.4	598.6	598.6	597.1	592.8	592.8	592.8
52.5°	563.9	562.5	559.6	559.6	556.7	553.8	553.8	553.8
55°	525.0	523.6	520.7	520.7	517.8	516.3	514.9	514.9
57.5°	484.6	484.6	481.7	481.7	477.4	477.4	476.0	478.8
60°	442.8	444.2	441.3	439.9	437.0	437.0	437.0	439.9
62.5°	405.3	403.8	401.0	401.0	399.5	398.1	399.5	399.5
65°	362.0	359.1	357.7	357.7	356.3	354.8	353.4	356.3
67.5°	321.6	320.2	317.3	317.3	317.3	315.9	315.9	317.3
70°	281.3	279.8	278.4	278.4	276.9	276.9	276.9	278.4
72.5°	240.9	240.9	240.9	239.4	238.0	236.5	239.4	238.0
75°	201.9	200.5	200.5	200.5	199.0	197.6	196.2	199.0
77.5°	163.0	161.5	161.5	161.5	160.1	158.7	158.7	160.1
80°	124.0	122.6	122.6	122.6	121.2	121.2	119.7	121.2
82.5°	83.7	83.7	83.7	83.7	80.8	82.2	82.2	80.8
85°	47.6	46.2	46.2	46.2	46.2	46.2	44.7	46.2
87.5°	14.4	14.4	14.4	15.9	14.4	15.9	15.9	15.9
90°	7.2	7.2	7.2	7.2	7.2	7.2	8.7	8.7
92.5°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
95°	37.5	38.9	37.5	37.5	37.5	37.5	37.5	37.5
97.5°	63.5	63.5	63.5	63.5	62.0	60.6	60.6	60.6
100°	79.3	80.8	82.2	82.2	83.7	83.7	83.7	83.7
102.5°	89.4	90.9	90.9	92.3	93.8	93.8	93.8	93.8
105°	99.5	99.5	101.0	102.4	105.3	106.7	108.2	108.2
107.5°	116.8	116.8	118.3	118.3	118.3	119.7	119.7	119.7
110°	147.1	141.3	141.3	139.9	138.5	138.5	138.5	138.5



TEST NUMBER: P303153

CATALOG NUMBER: CTW-F-5050-40L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	168.8	170.2	171.6	173.1	171.6	168.8	168.8	168.8
115°	183.2	186.1	188.9	190.4	191.8	191.8	193.3	193.3
117.5°	197.6	200.5	201.9	203.4	206.3	206.3	209.1	209.1
120°	212.0	214.9	214.9	216.3	217.8	219.2	220.7	220.7
122.5°	229.3	230.8	230.8	230.8	232.2	232.2	233.7	233.7
125°	251.0	248.1	246.6	248.1	246.6	246.6	246.6	246.6
127.5°	278.4	272.6	271.2	269.7	266.8	263.9	263.9	263.9
130°	314.4	305.8	301.4	300.0	295.7	289.9	289.9	288.5
132.5°	356.3	346.2	340.4	338.9	331.7	324.5	321.6	320.2
135°	405.3	393.8	386.5	385.1	373.6	366.3	363.5	362.0
137.5°	448.6	437.0	432.7	429.8	422.6	415.4	411.1	409.6
140°	493.3	483.2	476.0	473.1	464.4	460.1	455.8	455.8
142.5°	538.0	527.9	520.7	517.8	510.6	504.8	500.5	500.5
145°	581.3	571.2	563.9	561.1	553.8	548.1	545.2	543.8
147.5°	624.5	614.4	608.7	605.8	598.6	592.8	588.5	588.5
150°	666.3	656.3	650.5	644.7	640.4	634.6	631.7	630.3
152.5°	705.3	696.6	690.9	685.1	680.8	677.9	673.6	673.6
155°	739.9	732.7	726.9	722.6	719.7	715.4	713.9	713.9
157.5°	776.0	767.3	763.0	758.7	755.8	754.3	751.4	751.4
160°	809.1	800.5	797.6	793.3	790.4	787.5	786.1	787.5
162.5°	840.9	835.1	830.8	826.4	825.0	822.1	820.7	820.7
165°	868.3	862.5	859.6	856.7	853.8	852.4	851.0	852.4
167.5°	894.2	888.5	885.6	882.7	881.3	881.3	879.8	879.8
170°	917.3	913.0	911.5	907.2	905.8	905.8	904.3	904.3
172.5°	938.9	936.1	934.6	931.7	931.7	931.7	930.3	931.7
175°	960.6	957.7	956.3	953.4	953.4	951.9	950.5	951.9
177.5°	979.3	977.9	975.0	973.6	972.1	970.7	967.8	969.2
180°	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3

(END OF REPORT)