

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: P303142

Luminaire Tested: **CTW-F-5050-30L830-UNV-STD-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-5050-30L830-UNV-STD-8
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 3000 LUMEN PACKAGE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

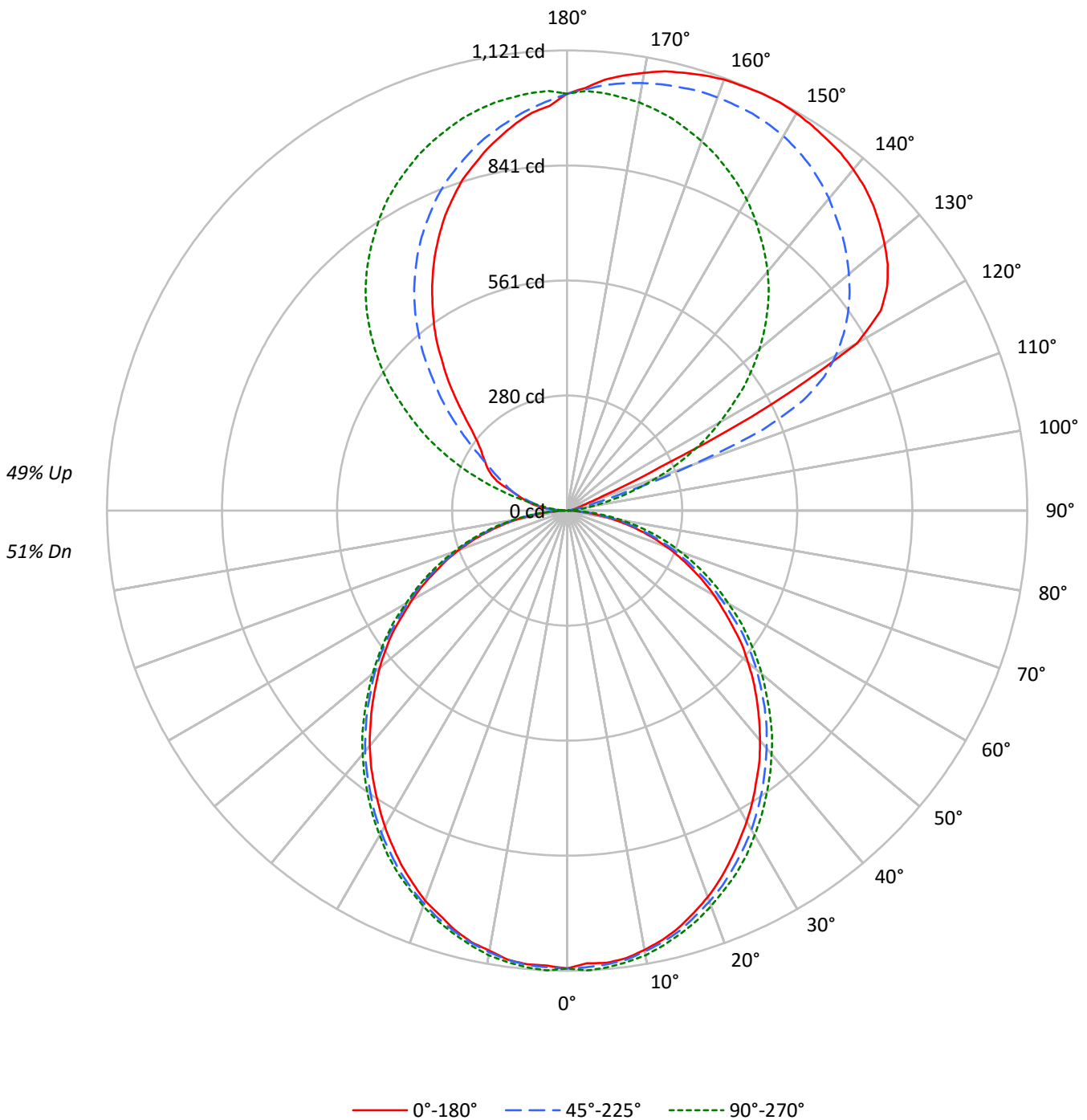
Lumens per Lamp: N/A
Luminaire Lumens: 5831.6 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 8' x L: 0.12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 43.7
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: P303142
CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-8

Luminous Intensity Polar Plot





TEST NUMBER: P303142

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-8

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	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57	57	57	51
1	98	94	90	86	90	87	83	80	73	71	69		61	60	58		50	49	48	43
2	89	82	75	70	82	76	70	66	64	60	57		54	51	48		44	42	40	36
3	81	72	64	58	75	66	60	55	57	52	48		47	44	41		39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40		42	38	35		35	32	29	26
5	68	56	48	42	63	52	45	40	45	39	35		38	34	30		31	28	26	22
6	63	51	42	36	58	47	40	34	40	35	30		34	30	26		28	25	22	20
7	58	46	38	32	53	43	35	30	37	31	27		31	27	23		26	23	20	17
8	54	41	34	28	50	39	32	27	33	28	24		28	24	21		24	20	18	15
9	50	38	30	25	46	35	28	24	31	25	21		26	22	19		22	19	16	14
10	47	35	27	23	43	32	26	21	28	23	19		24	20	17		20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12006	12006	12006
5°	11948	12072	11989
10°	11875	12023	11897
15°	11722	11894	11787
20°	11476	11741	11586
25°	11169	11580	11328
30°	10875	11354	11043
35°	10562	11119	10765
40°	10269	10890	10512
45°	9952	10627	10217
50°	9629	10369	9984
55°	9239	10106	9743
60°	8902	9769	9397
65°	8522	9551	9062
70°	8110	9259	8837
75°	7436	8958	8318
80°	6316	8343	7631
85°	3804	7361	5706



TEST NUMBER: P303142

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.8
10°-20°	298.2	5.1
20°-30°	441.5	7.6
30°-40°	518.4	8.9
40°-50°	525.7	9.0
50°-60°	467.6	8.0
60°-70°	356.5	6.1
70°-80°	211.7	3.6
80°-90°	57.2	1.0
90°-100°	27.9	0.5
100°-110°	118.8	2.0
110°-120°	336.6	5.8
120°-130°	503.7	8.6
130°-140°	544.5	9.3
140°-150°	518.5	8.9
150°-160°	425.2	7.3
160°-170°	277.9	4.8
170°-180°	96.3	1.7
0°-30°	845.0	14.5
0°-40°	1363.4	23.4
0°-60°	2356.6	40.4
0°-90°	2982.0	51.1
90°-120°	483.3	8.3
90°-150°	2050.1	35.2
90°-180°	2850.0	48.9
0°-180°	5831.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1115	1115	1115	1115	1115	
5°	1106	1110	1117	1112	1110	105
15°	1052	1060	1067	1062	1058	296
25°	940	960	975	967	954	433
35°	804	829	846	836	819	503
45°	654	681	698	688	671	505
55°	492	521	538	531	519	442
65°	335	350	375	367	356	332
75°	179	190	215	208	200	189
85°	31	40	60	54	46	41
90°	2	2	2	4	6	2
95°	6	6	21	42	38	7
105°	27	69	136	104	112	31
115°	250	635	333	181	202	331
125°	952	835	525	294	256	841
135°	1054	948	690	469	381	813
145°	1104	1029	819	650	567	693
155°	1121	1067	919	794	738	518
165°	1104	1067	988	906	873	313
175°	1054	1040	1021	985	973	101
180°	1015	1015	1015	1015	1015	



TEST NUMBER: P303142

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-8

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4
2.5°	1103.8	1103.8	1109.6	1111.5	1111.5	1113.5	1115.4	1117.3	1117.3	1117.3	1113.5
5°	1105.8	1105.8	1105.8	1105.8	1105.8	1107.7	1109.6	1111.5	1113.5	1111.5	1109.6
7.5°	1100.0	1100.0	1100.0	1100.0	1098.1	1100.0	1100.0	1103.8	1103.8	1103.8	1103.8
10°	1086.5	1086.5	1086.5	1088.5	1086.5	1088.5	1090.4	1092.3	1094.2	1094.2	1090.4
12.5°	1071.2	1071.2	1071.2	1073.1	1071.2	1071.2	1075.0	1075.0	1078.8	1076.9	1076.9
15°	1051.9	1051.9	1051.9	1055.8	1053.8	1053.8	1055.8	1057.7	1059.6	1059.6	1059.6
17.5°	1026.9	1026.9	1030.8	1032.7	1030.8	1032.7	1032.7	1034.6	1038.5	1038.5	1036.5
20°	1001.9	1001.9	1001.9	1005.8	1003.8	1005.8	1005.8	1009.6	1013.5	1013.5	1013.5
22.5°	973.1	971.2	973.1	975.0	975.0	976.9	976.9	980.8	984.6	986.5	988.5
25°	940.4	940.4	942.3	946.2	946.2	946.2	948.1	951.9	955.8	957.7	959.6
27.5°	907.7	907.7	909.6	913.5	915.4	915.4	915.4	921.2	926.9	928.8	928.8
30°	875.0	875.0	875.0	878.8	880.8	880.8	880.8	886.5	892.3	898.1	898.1
32.5°	840.4	840.4	840.4	846.2	848.1	848.1	848.1	851.9	857.7	861.5	863.5
35°	803.8	803.8	805.8	809.6	811.5	811.5	811.5	815.4	819.2	826.9	828.8
37.5°	769.2	767.3	769.2	773.1	775.0	775.0	773.1	778.8	784.6	790.4	792.3
40°	730.8	728.8	732.7	734.6	736.5	736.5	736.5	742.3	748.1	753.8	755.8
42.5°	692.3	692.3	694.2	696.2	698.1	698.1	700.0	703.8	707.7	715.4	719.2
45°	653.8	651.9	655.8	657.7	661.5	659.6	661.5	663.5	669.2	675.0	680.8
47.5°	615.4	615.4	615.4	617.3	621.2	623.1	623.1	625.0	630.8	636.5	640.4
50°	575.0	575.0	576.9	578.8	582.7	582.7	584.6	586.5	588.5	598.1	601.9
52.5°	536.5	536.5	536.5	538.5	544.2	544.2	544.2	548.1	551.9	555.8	561.5
55°	492.3	494.2	494.2	494.2	500.0	500.0	501.9	503.8	507.7	515.4	521.2
57.5°	451.9	453.8	453.8	455.8	457.7	459.6	461.5	461.5	465.4	469.2	475.0
60°	413.5	415.4	415.4	415.4	419.2	419.2	421.2	423.1	425.0	428.8	434.6
62.5°	375.0	375.0	375.0	375.0	378.8	378.8	380.8	384.6	384.6	388.5	394.2
65°	334.6	336.5	334.6	336.5	338.5	338.5	340.4	344.2	344.2	348.1	350.0
67.5°	296.2	296.2	296.2	298.1	298.1	300.0	300.0	303.8	305.8	307.7	309.6
70°	257.7	257.7	255.8	257.7	259.6	261.5	261.5	263.5	265.4	267.3	271.2
72.5°	217.3	217.3	217.3	219.2	219.2	221.2	221.2	225.0	226.9	228.8	230.8
75°	178.8	178.8	178.8	180.8	180.8	180.8	182.7	184.6	186.5	188.5	190.4
77.5°	140.4	140.4	140.4	142.3	140.4	142.3	142.3	146.2	148.1	150.0	151.9
80°	101.9	101.9	101.9	103.8	105.8	105.8	105.8	107.7	109.6	111.5	113.5
82.5°	65.4	63.5	63.5	65.4	67.3	67.3	69.2	69.2	71.2	73.1	76.9
85°	30.8	30.8	28.8	30.8	32.7	32.7	34.6	34.6	36.5	38.5	40.4
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.8	5.8	5.8	7.7
90°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
92.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
95°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
97.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	11.5	11.5
100°	13.5	13.5	13.5	13.5	13.5	15.4	15.4	15.4	17.3	19.2	21.2
102.5°	19.2	19.2	19.2	19.2	21.2	21.2	21.2	23.1	25.0	30.8	36.5
105°	26.9	26.9	28.8	28.8	30.8	30.8	32.7	34.6	40.4	50.0	69.2
107.5°	38.5	38.5	40.4	40.4	44.2	46.2	50.0	55.8	71.2	100.0	148.1
110°	55.8	57.7	61.5	63.5	73.1	78.8	86.5	111.5	159.6	234.6	321.2



TEST NUMBER: P303142

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	101.9	103.8	119.2	128.8	157.7	178.8	200.0	271.2	369.2	459.6	517.3
115°	250.0	261.5	282.7	321.2	382.7	426.9	467.3	546.2	609.6	632.7	634.6
117.5°	567.3	576.9	605.8	636.5	676.9	703.8	715.4	732.7	734.6	721.2	705.8
120°	815.4	815.4	815.4	823.1	823.1	826.9	821.2	813.5	796.2	775.0	755.8
122.5°	905.8	901.9	900.0	894.2	886.5	880.8	875.0	859.6	844.2	821.2	798.1
125°	951.9	946.2	944.2	936.5	925.0	921.2	913.5	898.1	880.8	857.7	834.6
127.5°	984.6	978.8	975.0	969.2	957.7	951.9	944.2	928.8	911.5	890.4	867.3
130°	1009.6	1003.8	1000.0	996.2	982.7	978.8	971.2	955.8	938.5	919.2	896.2
132.5°	1032.7	1028.8	1023.1	1017.3	1009.6	1003.8	996.2	982.7	965.4	946.2	923.1
135°	1053.8	1048.1	1044.2	1040.4	1028.8	1025.0	1017.3	1003.8	988.5	967.3	948.1
137.5°	1071.2	1065.4	1061.5	1055.8	1048.1	1040.4	1034.6	1023.1	1007.7	990.4	969.2
140°	1084.6	1078.8	1075.0	1069.2	1061.5	1055.8	1050.0	1040.4	1026.9	1009.6	992.3
142.5°	1096.2	1088.5	1086.5	1080.8	1073.1	1069.2	1063.5	1053.8	1042.3	1025.0	1011.5
145°	1103.8	1098.1	1096.2	1090.4	1084.6	1078.8	1076.9	1069.2	1055.8	1038.5	1028.8
147.5°	1111.5	1105.8	1103.8	1100.0	1092.3	1088.5	1086.5	1076.9	1065.4	1050.0	1042.3
150°	1117.3	1111.5	1109.6	1105.8	1098.1	1096.2	1094.2	1086.5	1075.0	1059.6	1053.8
152.5°	1121.2	1113.5	1111.5	1107.7	1101.9	1100.0	1098.1	1090.4	1080.8	1067.3	1061.5
155°	1121.2	1115.4	1113.5	1109.6	1103.8	1101.9	1098.1	1092.3	1082.7	1073.1	1067.3
157.5°	1119.2	1115.4	1113.5	1109.6	1101.9	1101.9	1098.1	1092.3	1084.6	1076.9	1069.2
160°	1117.3	1111.5	1111.5	1107.7	1101.9	1101.9	1098.1	1094.2	1084.6	1078.8	1071.2
162.5°	1111.5	1107.7	1107.7	1103.8	1100.0	1100.0	1096.2	1092.3	1082.7	1080.8	1071.2
165°	1103.8	1100.0	1100.0	1098.1	1092.3	1092.3	1090.4	1084.6	1078.8	1076.9	1067.3
167.5°	1096.2	1090.4	1090.4	1088.5	1082.7	1082.7	1082.7	1078.8	1073.1	1075.0	1063.5
170°	1082.7	1076.9	1076.9	1075.0	1073.1	1073.1	1073.1	1069.2	1063.5	1067.3	1057.7
172.5°	1069.2	1067.3	1065.4	1063.5	1061.5	1061.5	1061.5	1059.6	1055.8	1059.6	1050.0
175°	1053.8	1050.0	1050.0	1048.1	1048.1	1048.1	1048.1	1048.1	1044.2	1050.0	1040.4
177.5°	1030.8	1026.9	1028.8	1030.8	1030.8	1032.7	1032.7	1032.7	1030.8	1036.5	1026.9
180°	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4



TEST NUMBER: P303142

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4
2.5°	1109.6	1113.5	1111.5	1111.5	1111.5	1111.5	1111.5	1113.5	1119.2	1121.2	1121.2
5°	1105.8	1109.6	1107.7	1105.8	1105.8	1105.8	1105.8	1109.6	1115.4	1117.3	1115.4
7.5°	1098.1	1101.9	1100.0	1098.1	1100.0	1100.0	1100.0	1103.8	1109.6	1109.6	1109.6
10°	1086.5	1090.4	1088.5	1088.5	1088.5	1088.5	1090.4	1092.3	1098.1	1100.0	1098.1
12.5°	1073.1	1075.0	1073.1	1075.0	1075.0	1075.0	1075.0	1076.9	1082.7	1084.6	1084.6
15°	1055.8	1057.7	1055.8	1057.7	1055.8	1057.7	1057.7	1061.5	1065.4	1067.3	1069.2
17.5°	1034.6	1034.6	1034.6	1036.5	1036.5	1036.5	1036.5	1040.4	1046.2	1048.1	1048.1
20°	1009.6	1011.5	1013.5	1013.5	1013.5	1015.4	1015.4	1017.3	1025.0	1025.0	1026.9
22.5°	986.5	986.5	988.5	988.5	990.4	990.4	990.4	992.3	1000.0	1000.0	1000.0
25°	957.7	957.7	961.5	963.5	963.5	963.5	965.4	967.3	975.0	975.0	975.0
27.5°	926.9	926.9	932.7	930.8	932.7	934.6	936.5	940.4	944.2	946.2	946.2
30°	896.2	896.2	900.0	900.0	901.9	901.9	903.8	907.7	913.5	913.5	915.4
32.5°	865.4	865.4	867.3	869.2	871.2	869.2	871.2	875.0	880.8	880.8	882.7
35°	830.8	828.8	832.7	834.6	834.6	836.5	836.5	840.4	846.2	846.2	848.1
37.5°	796.2	794.2	798.1	800.0	801.9	801.9	801.9	805.8	809.6	811.5	813.5
40°	759.6	757.7	763.5	765.4	765.4	765.4	765.4	769.2	773.1	775.0	776.9
42.5°	719.2	721.2	725.0	728.8	728.8	728.8	730.8	730.8	736.5	738.5	740.4
45°	682.7	684.6	686.5	692.3	690.4	688.5	692.3	692.3	698.1	698.1	700.0
47.5°	644.2	646.2	646.2	651.9	651.9	650.0	653.8	653.8	657.7	657.7	661.5
50°	605.8	607.7	607.7	613.5	613.5	611.5	615.4	615.4	619.2	619.2	623.1
52.5°	563.5	567.3	567.3	573.1	575.0	573.1	575.0	575.0	578.8	578.8	582.7
55°	523.1	526.9	528.8	530.8	534.6	532.7	534.6	536.5	540.4	538.5	542.3
57.5°	480.8	480.8	484.6	486.5	488.5	488.5	494.2	492.3	492.3	498.1	500.0
60°	438.5	440.4	444.2	446.2	448.1	448.1	450.0	451.9	453.8	453.8	457.7
62.5°	398.1	401.9	403.8	405.8	407.7	405.8	411.5	413.5	415.4	415.4	415.4
65°	357.7	359.6	363.5	365.4	365.4	365.4	371.2	373.1	373.1	375.0	375.0
67.5°	315.4	319.2	323.1	323.1	326.9	325.0	330.8	332.7	332.7	334.6	336.5
70°	275.0	276.9	280.8	282.7	286.5	284.6	288.5	290.4	292.3	294.2	296.2
72.5°	234.6	236.5	240.4	242.3	244.2	246.2	248.1	251.9	253.8	255.8	255.8
75°	194.2	196.2	200.0	201.9	203.8	205.8	207.7	211.5	211.5	215.4	215.4
77.5°	155.8	157.7	159.6	161.5	165.4	167.3	169.2	171.2	173.1	175.0	175.0
80°	117.3	117.3	121.2	123.1	126.9	126.9	128.8	130.8	134.6	134.6	134.6
82.5°	78.8	80.8	82.7	84.6	88.5	88.5	90.4	94.2	96.2	96.2	96.2
85°	42.3	44.2	48.1	50.0	51.9	51.9	55.8	57.7	59.6	59.6	59.6
87.5°	9.6	11.5	13.5	15.4	19.2	21.2	21.2	23.1	25.0	25.0	25.0
90°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
92.5°	3.8	3.8	3.8	3.8	3.8	5.8	7.7	9.6	9.6	7.7	9.6
95°	7.7	7.7	9.6	13.5	17.3	19.2	26.9	28.8	25.0	21.2	21.2
97.5°	13.5	17.3	23.1	34.6	42.3	48.1	57.7	53.8	46.2	40.4	36.5
100°	26.9	36.5	50.0	73.1	84.6	94.2	98.1	88.5	76.9	65.4	57.7
102.5°	48.1	73.1	103.8	140.4	151.9	155.8	153.8	134.6	115.4	96.2	84.6
105°	100.0	146.2	200.0	226.9	232.7	228.8	209.6	188.5	161.5	136.5	117.3
107.5°	215.4	280.8	315.4	319.2	313.5	301.9	273.1	244.2	211.5	182.7	155.8
110°	382.7	417.3	417.3	400.0	384.6	371.2	334.6	301.9	265.4	230.8	201.9



TEST NUMBER: P303142

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	526.9	521.2	496.2	465.4	448.1	430.8	392.3	357.7	317.3	282.7	248.1
115°	617.3	590.4	559.6	525.0	505.8	484.6	450.0	409.6	367.3	332.7	296.2
117.5°	676.9	646.2	611.5	578.8	559.6	544.2	503.8	457.7	419.2	382.7	346.2
120°	725.0	692.3	659.6	626.9	609.6	592.3	550.0	509.6	465.4	428.8	394.2
122.5°	765.4	734.6	701.9	671.2	653.8	634.6	596.2	555.8	519.2	475.0	442.3
125°	805.8	776.9	742.3	713.5	694.2	673.1	638.5	598.1	561.5	525.0	490.4
127.5°	840.4	811.5	782.7	750.0	730.8	711.5	676.9	638.5	603.8	569.2	536.5
130°	871.2	846.2	815.4	782.7	763.5	746.2	711.5	676.9	644.2	611.5	578.8
132.5°	903.8	875.0	846.2	813.5	796.2	778.8	748.1	715.4	682.7	651.9	621.2
135°	930.8	901.9	871.2	838.5	825.0	809.6	780.8	750.0	719.2	690.4	661.5
137.5°	955.8	923.1	894.2	863.5	851.9	838.5	809.6	780.8	753.8	726.9	698.1
140°	975.0	942.3	915.4	888.5	876.9	863.5	834.6	811.5	786.5	759.6	732.7
142.5°	990.4	959.6	932.7	909.6	898.1	888.5	861.5	838.5	815.4	790.4	765.4
145°	1003.8	976.9	951.9	928.8	921.2	909.6	884.6	865.4	844.2	819.2	796.2
147.5°	1015.4	992.3	969.2	948.1	938.5	928.8	905.8	888.5	867.3	848.1	825.0
150°	1026.9	1005.8	984.6	965.4	957.7	948.1	925.0	909.6	894.2	875.0	853.8
152.5°	1034.6	1015.4	996.2	980.8	973.1	965.4	944.2	932.7	915.4	898.1	878.8
155°	1042.3	1025.0	1007.7	994.2	988.5	980.8	963.5	951.9	936.5	919.2	901.9
157.5°	1048.1	1032.7	1017.3	1005.8	1000.0	994.2	976.9	969.2	955.8	940.4	923.1
160°	1050.0	1036.5	1025.0	1015.4	1009.6	1003.8	990.4	982.7	971.2	957.7	942.3
162.5°	1050.0	1040.4	1028.8	1023.1	1017.3	1011.5	1000.0	994.2	984.6	973.1	959.6
165°	1050.0	1042.3	1032.7	1026.9	1023.1	1019.2	1009.6	1003.8	994.2	988.5	975.0
167.5°	1050.0	1042.3	1034.6	1030.8	1026.9	1023.1	1017.3	1013.5	1005.8	1000.0	988.5
170°	1046.2	1038.5	1034.6	1032.7	1028.8	1026.9	1021.2	1019.2	1013.5	1009.6	1000.0
172.5°	1040.4	1034.6	1032.7	1030.8	1028.8	1026.9	1023.1	1021.2	1017.3	1015.4	1009.6
175°	1032.7	1028.8	1026.9	1026.9	1026.9	1025.0	1021.2	1023.1	1021.2	1021.2	1015.4
177.5°	1021.2	1019.2	1019.2	1019.2	1021.2	1019.2	1019.2	1021.2	1021.2	1023.1	1019.2
180°	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4



TEST NUMBER: P303142

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4
2.5°	1119.2	1115.4	1113.5	1113.5	1111.5	1107.7	1107.7	1109.6	1113.5	1121.2	1115.4
5°	1115.4	1113.5	1107.7	1107.7	1107.7	1105.8	1101.9	1105.8	1111.5	1117.3	1109.6
7.5°	1107.7	1105.8	1101.9	1101.9	1101.9	1098.1	1096.2	1100.0	1103.8	1107.7	1101.9
10°	1098.1	1094.2	1092.3	1090.4	1090.4	1086.5	1084.6	1088.5	1092.3	1096.2	1092.3
12.5°	1084.6	1080.8	1076.9	1076.9	1075.0	1073.1	1071.2	1075.0	1078.8	1082.7	1078.8
15°	1067.3	1063.5	1059.6	1059.6	1059.6	1053.8	1053.8	1055.8	1061.5	1063.5	1057.7
17.5°	1048.1	1042.3	1038.5	1040.4	1038.5	1032.7	1034.6	1034.6	1042.3	1042.3	1038.5
20°	1025.0	1019.2	1017.3	1017.3	1015.4	1011.5	1011.5	1013.5	1019.2	1017.3	1013.5
22.5°	1000.0	994.2	994.2	992.3	992.3	986.5	986.5	988.5	994.2	990.4	986.5
25°	973.1	969.2	967.3	967.3	963.5	959.6	959.6	961.5	967.3	961.5	959.6
27.5°	942.3	940.4	938.5	938.5	934.6	930.8	932.7	932.7	936.5	932.7	928.8
30°	913.5	909.6	907.7	907.7	903.8	898.1	900.0	900.0	905.8	900.0	900.0
32.5°	882.7	876.9	876.9	875.0	871.2	867.3	869.2	871.2	873.1	865.4	867.3
35°	848.1	842.3	842.3	840.4	836.5	834.6	834.6	836.5	836.5	830.8	830.8
37.5°	813.5	809.6	807.7	805.8	801.9	800.0	801.9	803.8	801.9	796.2	796.2
40°	776.9	773.1	769.2	769.2	767.3	765.4	765.4	769.2	765.4	759.6	759.6
42.5°	740.4	736.5	732.7	732.7	730.8	730.8	730.8	732.7	726.9	725.0	721.2
45°	701.9	698.1	694.2	694.2	692.3	692.3	692.3	692.3	688.5	686.5	684.6
47.5°	663.5	659.6	655.8	655.8	653.8	655.8	655.8	653.8	648.1	648.1	646.2
50°	625.0	621.2	617.3	617.3	617.3	617.3	617.3	615.4	611.5	609.6	607.7
52.5°	584.6	580.8	576.9	578.8	576.9	578.8	576.9	575.0	571.2	569.2	567.3
55°	544.2	540.4	538.5	540.4	538.5	538.5	536.5	534.6	530.8	530.8	526.9
57.5°	501.9	496.2	496.2	498.1	496.2	496.2	492.3	490.4	486.5	486.5	482.7
60°	457.7	455.8	455.8	455.8	455.8	453.8	451.9	451.9	448.1	446.2	442.3
62.5°	417.3	417.3	415.4	417.3	413.5	413.5	411.5	409.6	407.7	405.8	403.8
65°	376.9	375.0	375.0	373.1	373.1	373.1	371.2	369.2	367.3	365.4	363.5
67.5°	334.6	334.6	334.6	334.6	332.7	332.7	330.8	328.8	325.0	326.9	323.1
70°	294.2	294.2	294.2	294.2	292.3	292.3	290.4	288.5	284.6	286.5	284.6
72.5°	253.8	253.8	253.8	253.8	251.9	251.9	248.1	248.1	248.1	246.2	244.2
75°	213.5	213.5	213.5	211.5	211.5	211.5	207.7	207.7	207.7	207.7	203.8
77.5°	173.1	175.0	173.1	173.1	171.2	171.2	171.2	169.2	169.2	167.3	165.4
80°	132.7	134.6	134.6	134.6	132.7	132.7	132.7	130.8	128.8	128.8	126.9
82.5°	98.1	96.2	96.2	96.2	94.2	94.2	94.2	92.3	92.3	90.4	88.5
85°	59.6	59.6	59.6	59.6	57.7	57.7	55.8	53.8	53.8	50.0	50.0
87.5°	26.9	25.0	25.0	25.0	25.0	23.1	21.2	19.2	19.2	17.3	17.3
90°	1.9	1.9	3.8	1.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8
92.5°	13.5	17.3	19.2	21.2	19.2	21.2	21.2	21.2	19.2	19.2	19.2
95°	23.1	26.9	32.7	34.6	36.5	40.4	42.3	42.3	42.3	40.4	40.4
97.5°	36.5	40.4	42.3	44.2	44.2	50.0	53.8	57.7	61.5	61.5	63.5
100°	55.8	53.8	57.7	61.5	61.5	61.5	63.5	67.3	71.2	73.1	76.9
102.5°	78.8	73.1	73.1	75.0	76.9	82.7	80.8	82.7	84.6	86.5	88.5
105°	105.8	100.0	94.2	94.2	94.2	98.1	103.8	107.7	103.8	103.8	105.8
107.5°	140.4	128.8	119.2	117.3	117.3	115.4	119.2	125.0	128.8	130.8	128.8
110°	178.8	161.5	151.9	142.3	140.4	138.5	138.5	140.4	146.2	151.9	155.8



TEST NUMBER: P303142

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	223.1	201.9	184.6	176.9	169.2	161.5	159.6	159.6	161.5	167.3	171.2
115°	269.2	244.2	221.2	211.5	205.8	190.4	182.7	178.8	180.8	182.7	186.5
117.5°	317.3	290.4	263.5	251.9	244.2	226.9	211.5	205.8	201.9	200.0	203.8
120°	365.4	338.5	311.5	296.2	284.6	265.4	248.1	232.7	225.0	221.2	219.2
122.5°	411.5	384.6	357.7	342.3	330.8	305.8	288.5	269.2	255.8	246.2	240.4
125°	457.7	430.8	403.8	388.5	376.9	350.0	328.8	311.5	294.2	278.8	267.3
127.5°	503.8	475.0	448.1	434.6	423.1	394.2	371.2	353.8	336.5	319.2	303.8
130°	550.0	525.0	496.2	478.8	469.2	440.4	417.3	396.2	380.8	363.5	344.2
132.5°	590.4	567.3	540.4	526.9	513.5	484.6	465.4	442.3	425.0	407.7	390.4
135°	632.7	607.7	580.8	569.2	557.7	534.6	511.5	488.5	469.2	451.9	434.6
137.5°	669.2	648.1	621.2	609.6	598.1	576.9	555.8	538.5	519.2	500.0	478.8
140°	705.8	682.7	659.6	648.1	636.5	619.2	598.1	582.7	563.5	548.1	526.9
142.5°	738.5	715.4	696.2	684.6	673.1	655.8	636.5	623.1	607.7	590.4	576.9
145°	771.2	750.0	730.8	719.2	709.6	692.3	673.1	663.5	650.0	632.7	617.3
147.5°	800.0	780.8	761.5	751.9	744.2	726.9	711.5	700.0	688.5	673.1	659.6
150°	828.8	809.6	792.3	784.6	775.0	761.5	748.1	734.6	726.9	711.5	700.0
152.5°	855.8	838.5	821.2	815.4	807.7	792.3	778.8	767.3	761.5	748.1	738.5
155°	882.7	865.4	848.1	844.2	836.5	823.1	809.6	800.0	794.2	780.8	771.2
157.5°	905.8	888.5	875.0	869.2	861.5	850.0	838.5	830.8	826.9	815.4	805.8
160°	926.9	911.5	898.1	892.3	886.5	875.0	867.3	857.7	855.8	846.2	838.5
162.5°	944.2	930.8	919.2	915.4	909.6	900.0	892.3	882.7	880.8	875.0	867.3
165°	961.5	948.1	938.5	934.6	930.8	921.2	915.4	907.7	905.8	901.9	894.2
167.5°	976.9	965.4	955.8	953.8	950.0	942.3	938.5	930.8	928.8	926.9	919.2
170°	988.5	978.8	971.2	969.2	965.4	959.6	955.8	950.0	948.1	950.0	942.3
172.5°	998.1	990.4	984.6	982.7	980.8	976.9	973.1	969.2	967.3	971.2	963.5
175°	1007.7	1000.0	996.2	994.2	994.2	990.4	988.5	984.6	984.6	988.5	982.7
177.5°	1013.5	1007.7	1003.8	1003.8	1001.9	1000.0	1000.0	996.2	1000.0	1003.8	998.1
180°	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4



TEST NUMBER: P303142

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4
2.5°	1119.2	1115.4	1115.4	1113.5	1111.5	1109.6	1109.6	1109.6
5°	1113.5	1111.5	1109.6	1105.8	1105.8	1107.7	1109.6	1109.6
7.5°	1103.8	1103.8	1101.9	1100.0	1098.1	1101.9	1101.9	1103.8
10°	1094.2	1092.3	1090.4	1088.5	1086.5	1088.5	1088.5	1088.5
12.5°	1078.8	1076.9	1075.0	1071.2	1071.2	1073.1	1073.1	1076.9
15°	1061.5	1059.6	1055.8	1055.8	1053.8	1055.8	1055.8	1057.7
17.5°	1040.4	1036.5	1034.6	1032.7	1032.7	1034.6	1034.6	1032.7
20°	1015.4	1011.5	1007.7	1005.8	1005.8	1007.7	1007.7	1011.5
22.5°	986.5	982.7	980.8	978.8	978.8	980.8	980.8	982.7
25°	959.6	955.8	953.8	951.9	951.9	951.9	951.9	953.8
27.5°	930.8	925.0	921.2	921.2	919.2	919.2	919.2	921.2
30°	896.2	890.4	888.5	888.5	886.5	886.5	886.5	888.5
32.5°	861.5	857.7	855.8	853.8	851.9	853.8	851.9	853.8
35°	826.9	821.2	821.2	821.2	819.2	819.2	817.3	819.2
37.5°	792.3	786.5	784.6	784.6	782.7	782.7	782.7	784.6
40°	755.8	750.0	750.0	748.1	746.2	746.2	746.2	748.1
42.5°	717.3	713.5	711.5	711.5	709.6	709.6	709.6	709.6
45°	678.8	673.1	673.1	675.0	671.2	671.2	671.2	671.2
47.5°	640.4	636.5	636.5	636.5	632.7	632.7	632.7	632.7
50°	601.9	600.0	598.1	598.1	598.1	596.2	596.2	596.2
52.5°	563.5	561.5	559.6	561.5	557.7	557.7	557.7	557.7
55°	523.1	521.2	521.2	523.1	519.2	519.2	517.3	519.2
57.5°	478.8	476.9	476.9	476.9	476.9	475.0	475.0	475.0
60°	440.4	438.5	438.5	438.5	436.5	436.5	436.5	436.5
62.5°	400.0	400.0	400.0	398.1	398.1	396.2	396.2	398.1
65°	361.5	359.6	359.6	359.6	357.7	357.7	355.8	355.8
67.5°	321.2	321.2	321.2	319.2	319.2	317.3	317.3	319.2
70°	282.7	282.7	280.8	280.8	280.8	278.8	278.8	280.8
72.5°	244.2	242.3	242.3	240.4	242.3	238.5	238.5	240.4
75°	203.8	203.8	201.9	201.9	201.9	200.0	200.0	200.0
77.5°	165.4	165.4	163.5	163.5	163.5	161.5	161.5	161.5
80°	126.9	125.0	125.0	125.0	125.0	123.1	121.2	123.1
82.5°	86.5	86.5	86.5	86.5	84.6	82.7	80.8	82.7
85°	50.0	48.1	48.1	50.0	48.1	48.1	48.1	46.2
87.5°	17.3	15.4	15.4	15.4	15.4	17.3	15.4	15.4
90°	3.8	3.8	3.8	5.8	5.8	5.8	5.8	5.8
92.5°	19.2	19.2	17.3	17.3	17.3	17.3	15.4	15.4
95°	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
97.5°	63.5	63.5	61.5	61.5	61.5	61.5	61.5	61.5
100°	78.8	80.8	80.8	80.8	82.7	82.7	82.7	82.7
102.5°	92.3	92.3	94.2	94.2	94.2	96.2	96.2	96.2
105°	105.8	107.7	107.7	107.7	109.6	109.6	111.5	111.5
107.5°	126.9	126.9	126.9	126.9	128.8	128.8	128.8	128.8
110°	155.8	155.8	153.8	151.9	151.9	151.9	150.0	150.0



TEST NUMBER: P303142

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	175.0	178.8	178.8	180.8	182.7	182.7	182.7	182.7
115°	190.4	194.2	196.2	198.1	200.0	200.0	201.9	201.9
117.5°	205.8	207.7	209.6	211.5	213.5	215.4	215.4	217.3
120°	221.2	223.1	225.0	225.0	226.9	228.8	228.8	228.8
122.5°	238.5	240.4	238.5	238.5	240.4	240.4	240.4	242.3
125°	261.5	259.6	257.7	257.7	255.8	255.8	255.8	255.8
127.5°	292.3	288.5	284.6	280.8	278.8	276.9	275.0	275.0
130°	330.8	323.1	317.3	313.5	309.6	305.8	301.9	301.9
132.5°	375.0	365.4	359.6	353.8	348.1	342.3	336.5	338.5
135°	421.2	413.5	405.8	400.0	392.3	384.6	380.8	380.8
137.5°	465.4	455.8	450.0	446.2	440.4	432.7	426.9	428.8
140°	515.4	498.1	494.2	490.4	484.6	476.9	473.1	473.1
142.5°	559.6	546.2	542.3	540.4	532.7	525.0	521.2	523.1
145°	603.8	590.4	588.5	584.6	578.8	571.2	567.3	567.3
147.5°	646.2	634.6	632.7	628.8	623.1	615.4	611.5	611.5
150°	688.5	676.9	673.1	671.2	665.4	657.7	653.8	655.8
152.5°	726.9	715.4	713.5	711.5	703.8	700.0	696.2	698.1
155°	763.5	751.9	750.0	748.1	744.2	738.5	736.5	738.5
157.5°	798.1	788.5	786.5	784.6	780.8	775.0	773.1	776.9
160°	830.8	823.1	821.2	819.2	817.3	813.5	809.6	811.5
162.5°	861.5	853.8	853.8	851.9	850.0	846.2	844.2	846.2
165°	890.4	884.6	882.7	880.8	878.8	876.9	875.0	873.1
167.5°	917.3	909.6	909.6	905.8	905.8	903.8	901.9	901.9
170°	940.4	934.6	934.6	930.8	930.8	928.8	926.9	926.9
172.5°	961.5	957.7	955.8	955.8	955.8	953.8	951.9	951.9
175°	982.7	978.8	976.9	975.0	975.0	973.1	971.2	973.1
177.5°	1000.0	998.1	996.2	994.2	994.2	990.4	988.5	986.5
180°	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4	1015.4

(END OF REPORT)