

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: P303147

Luminaire Tested: **CTW-F-5050-30L940-UNV-STD-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303147
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-5050-30L940-UNV-STD-8
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 3000 LUMEN PACKAGE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

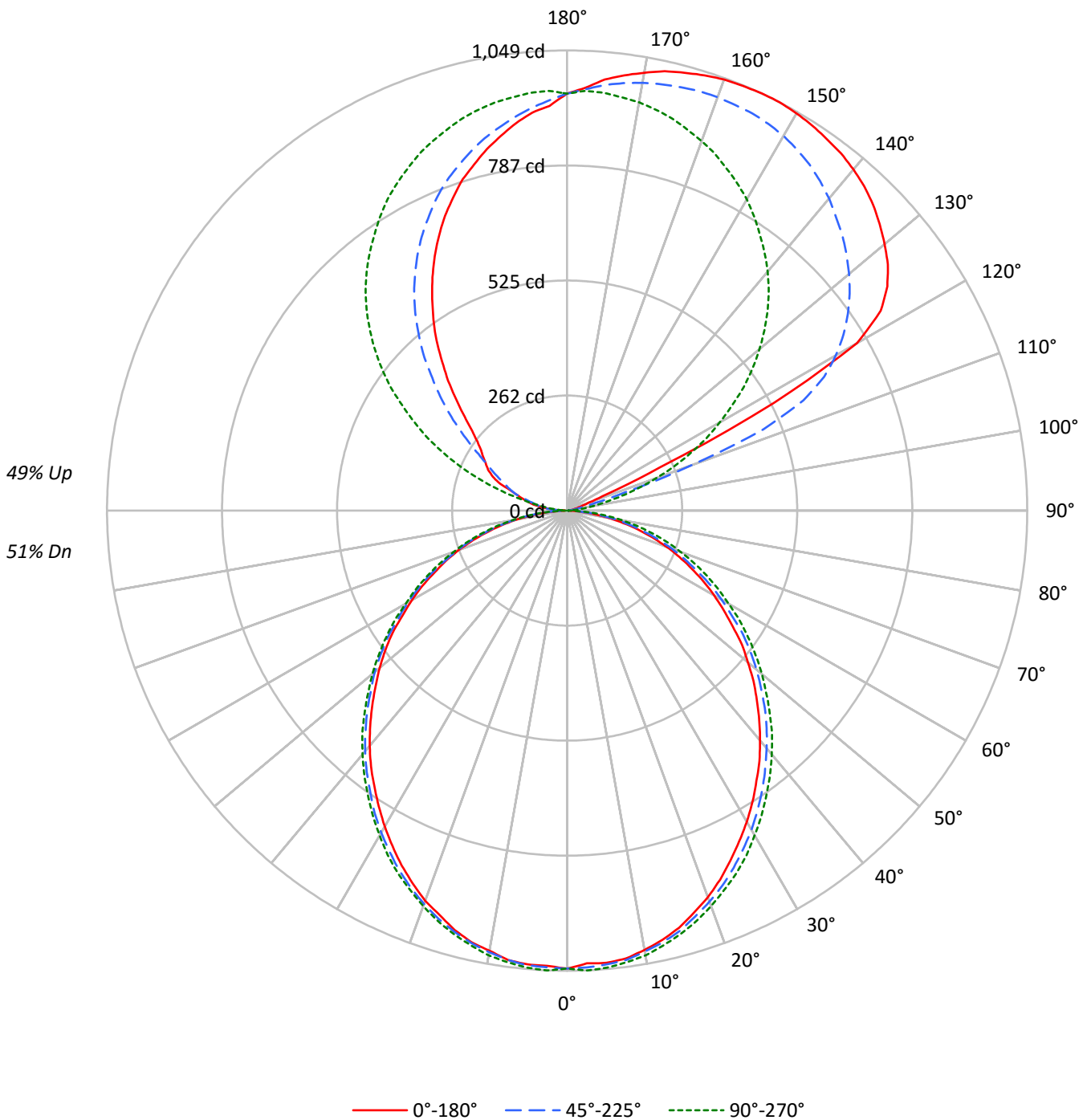
Lumens per Lamp: N/A
Luminaire Lumens: 5458.4 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 8' x L: 0.12' x H: 0')
CIE Type: General Diffuse

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



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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	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°	11238	11238	11238
5°	11183	11300	11222
10°	11116	11253	11135
15°	10972	11132	11032
20°	10742	10990	10845
25°	10454	10839	10603
30°	10179	10627	10336
35°	9887	10407	10076
40°	9611	10193	9839
45°	9316	9946	9563
50°	9013	9706	9344
55°	8648	9458	9120
60°	8331	9145	8796
65°	7977	8940	8481
70°	7591	8667	8271
75°	6962	8384	7785
80°	5914	7810	7141
85°	3557	6891	5335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	1.8
10°-20°	279.1	5.1
20°-30°	413.2	7.6
30°-40°	485.2	8.9
40°-50°	492.0	9.0
50°-60°	437.7	8.0
60°-70°	333.6	6.1
70°-80°	198.2	3.6
80°-90°	53.5	1.0
90°-100°	26.1	0.5
100°-110°	111.2	2.0
110°-120°	315.1	5.8
120°-130°	471.5	8.6
130°-140°	509.7	9.3
140°-150°	485.3	8.9
150°-160°	398.0	7.3
160°-170°	260.1	4.8
170°-180°	90.2	1.7
0°-30°	790.9	14.5
0°-40°	1276.1	23.4
0°-60°	2205.8	40.4
0°-90°	2791.1	51.1
90°-120°	452.4	8.3
90°-150°	1918.9	35.2
90°-180°	2667.0	48.9
0°-180°	5458.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1044	1044	1044	1044	1044	
5°	1035	1039	1046	1040	1039	98
15°	985	992	999	994	990	277
25°	880	898	913	905	893	406
35°	752	776	792	783	767	471
45°	612	637	653	644	628	472
55°	461	488	504	497	486	413
65°	313	328	351	344	333	311
75°	167	178	202	194	187	177
85°	29	38	56	50	43	38
90°	2	2	2	4	5	1
95°	5	5	20	40	36	6
105°	25	65	128	97	104	29
115°	234	594	311	169	189	310
125°	891	781	491	275	239	787
135°	986	887	646	439	356	761
145°	1033	963	767	608	531	648
155°	1049	999	860	743	691	485
165°	1033	999	925	848	817	293
175°	986	974	956	922	911	95
180°	950	950	950	950	950	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0
2.5°	1033.2	1033.2	1038.6	1040.4	1040.4	1042.2	1044.0	1045.8	1045.8	1045.8	1042.2
5°	1035.0	1035.0	1035.0	1035.0	1035.0	1036.8	1038.6	1040.4	1042.2	1040.4	1038.6
7.5°	1029.6	1029.6	1029.6	1029.6	1027.8	1029.6	1029.6	1033.2	1033.2	1033.2	1033.2
10°	1017.0	1017.0	1017.0	1018.8	1017.0	1018.8	1020.6	1022.4	1024.2	1024.2	1020.6
12.5°	1002.6	1002.6	1002.6	1004.4	1002.6	1002.6	1006.2	1006.2	1009.8	1008.0	1008.0
15°	984.6	984.6	984.6	988.2	986.4	986.4	988.2	990.0	991.8	991.8	991.8
17.5°	961.2	961.2	964.8	966.6	964.8	966.6	966.6	968.4	972.0	972.0	970.2
20°	937.8	937.8	937.8	941.4	939.6	941.4	941.4	945.0	948.6	948.6	948.6
22.5°	910.8	909.0	910.8	912.6	912.6	914.4	914.4	918.0	921.6	923.4	925.2
25°	880.2	880.2	882.0	885.6	885.6	885.6	887.4	891.0	894.6	896.4	898.2
27.5°	849.6	849.6	851.4	855.0	856.8	856.8	856.8	862.2	867.6	869.4	869.4
30°	819.0	819.0	819.0	822.6	824.4	824.4	824.4	829.8	835.2	840.6	840.6
32.5°	786.6	786.6	786.6	792.0	793.8	793.8	793.8	797.4	802.8	806.4	808.2
35°	752.4	752.4	754.2	757.8	759.6	759.6	759.6	763.2	766.8	774.0	775.8
37.5°	720.0	718.2	720.0	723.6	725.4	725.4	723.6	729.0	734.4	739.8	741.6
40°	684.0	682.2	685.8	687.6	689.4	689.4	689.4	694.8	700.2	705.6	707.4
42.5°	648.0	648.0	649.8	651.6	653.4	653.4	655.2	658.8	662.4	669.6	673.2
45°	612.0	610.2	613.8	615.6	619.2	617.4	619.2	621.0	626.4	631.8	637.2
47.5°	576.0	576.0	576.0	577.8	581.4	583.2	583.2	585.0	590.4	595.8	599.4
50°	538.2	538.2	540.0	541.8	545.4	545.4	547.2	549.0	550.8	559.8	563.4
52.5°	502.2	502.2	502.2	504.0	509.4	509.4	509.4	513.0	516.6	520.2	525.6
55°	460.8	462.6	462.6	462.6	468.0	468.0	469.8	471.6	475.2	482.4	487.8
57.5°	423.0	424.8	424.8	426.6	428.4	430.2	432.0	432.0	435.6	439.2	444.6
60°	387.0	388.8	388.8	388.8	392.4	392.4	394.2	396.0	397.8	401.4	406.8
62.5°	351.0	351.0	351.0	351.0	354.6	354.6	356.4	360.0	360.0	363.6	369.0
65°	313.2	315.0	313.2	315.0	316.8	316.8	318.6	322.2	322.2	325.8	327.6
67.5°	277.2	277.2	277.2	279.0	279.0	280.8	280.8	284.4	286.2	288.0	289.8
70°	241.2	241.2	239.4	241.2	243.0	244.8	244.8	246.6	248.4	250.2	253.8
72.5°	203.4	203.4	203.4	205.2	205.2	207.0	207.0	210.6	212.4	214.2	216.0
75°	167.4	167.4	167.4	169.2	169.2	169.2	171.0	172.8	174.6	176.4	178.2
77.5°	131.4	131.4	131.4	133.2	131.4	133.2	133.2	136.8	138.6	140.4	142.2
80°	95.4	95.4	95.4	97.2	99.0	99.0	99.0	100.8	102.6	104.4	106.2
82.5°	61.2	59.4	59.4	61.2	63.0	63.0	64.8	64.8	66.6	68.4	72.0
85°	28.8	28.8	27.0	28.8	30.6	30.6	32.4	32.4	34.2	36.0	37.8
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.4	5.4	5.4	7.2
90°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
92.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
95°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
97.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.8	10.8
100°	12.6	12.6	12.6	12.6	12.6	14.4	14.4	14.4	16.2	18.0	19.8
102.5°	18.0	18.0	18.0	18.0	19.8	19.8	19.8	21.6	23.4	28.8	34.2
105°	25.2	25.2	27.0	27.0	28.8	28.8	30.6	32.4	37.8	46.8	64.8
107.5°	36.0	36.0	37.8	37.8	41.4	43.2	46.8	52.2	66.6	93.6	138.6
110°	52.2	54.0	57.6	59.4	68.4	73.8	81.0	104.4	149.4	219.6	300.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	95.4	97.2	111.6	120.6	147.6	167.4	187.2	253.8	345.6	430.2	484.2
115°	234.0	244.8	264.6	300.6	358.2	399.6	437.4	511.2	570.6	592.2	594.0
117.5°	531.0	540.0	567.0	595.8	633.6	658.8	669.6	685.8	687.6	675.0	660.6
120°	763.2	763.2	763.2	770.4	770.4	774.0	768.6	761.4	745.2	725.4	707.4
122.5°	847.8	844.2	842.4	837.0	829.8	824.4	819.0	804.6	790.2	768.6	747.0
125°	891.0	885.6	883.8	876.6	865.8	862.2	855.0	840.6	824.4	802.8	781.2
127.5°	921.6	916.2	912.6	907.2	896.4	891.0	883.8	869.4	853.2	833.4	811.8
130°	945.0	939.6	936.0	932.4	919.8	916.2	909.0	894.6	878.4	860.4	838.8
132.5°	966.6	963.0	957.6	952.2	945.0	939.6	932.4	919.8	903.6	885.6	864.0
135°	986.4	981.0	977.4	973.8	963.0	959.4	952.2	939.6	925.2	905.4	887.4
137.5°	1002.6	997.2	993.6	988.2	981.0	973.8	968.4	957.6	943.2	927.0	907.2
140°	1015.2	1009.8	1006.2	1000.8	993.6	988.2	982.8	973.8	961.2	945.0	928.8
142.5°	1026.0	1018.8	1017.0	1011.6	1004.4	1000.8	995.4	986.4	975.6	959.4	946.8
145°	1033.2	1027.8	1026.0	1020.6	1015.2	1009.8	1008.0	1000.8	988.2	972.0	963.0
147.5°	1040.4	1035.0	1033.2	1029.6	1022.4	1018.8	1017.0	1008.0	997.2	982.8	975.6
150°	1045.8	1040.4	1038.6	1035.0	1027.8	1026.0	1024.2	1017.0	1006.2	991.8	986.4
152.5°	1049.4	1042.2	1040.4	1036.8	1031.4	1029.6	1027.8	1020.6	1011.6	999.0	993.6
155°	1049.4	1044.0	1042.2	1038.6	1033.2	1031.4	1027.8	1022.4	1013.4	1004.4	999.0
157.5°	1047.6	1044.0	1042.2	1038.6	1031.4	1031.4	1027.8	1022.4	1015.2	1008.0	1000.8
160°	1045.8	1040.4	1040.4	1036.8	1031.4	1031.4	1027.8	1024.2	1015.2	1009.8	1002.6
162.5°	1040.4	1036.8	1036.8	1033.2	1029.6	1029.6	1026.0	1022.4	1013.4	1011.6	1002.6
165°	1033.2	1029.6	1029.6	1027.8	1022.4	1022.4	1020.6	1015.2	1009.8	1008.0	999.0
167.5°	1026.0	1020.6	1020.6	1018.8	1013.4	1013.4	1013.4	1009.8	1004.4	1006.2	995.4
170°	1013.4	1008.0	1008.0	1006.2	1004.4	1004.4	1004.4	1000.8	995.4	999.0	990.0
172.5°	1000.8	999.0	997.2	995.4	993.6	993.6	993.6	991.8	988.2	991.8	982.8
175°	986.4	982.8	982.8	981.0	981.0	981.0	981.0	981.0	977.4	982.8	973.8
177.5°	964.8	961.2	963.0	964.8	964.8	966.6	966.6	966.6	964.8	970.2	961.2
180°	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0
2.5°	1038.6	1042.2	1040.4	1040.4	1040.4	1040.4	1040.4	1042.2	1047.6	1049.4	1049.4
5°	1035.0	1038.6	1036.8	1035.0	1035.0	1035.0	1035.0	1038.6	1044.0	1045.8	1044.0
7.5°	1027.8	1031.4	1029.6	1027.8	1029.6	1029.6	1029.6	1033.2	1038.6	1038.6	1038.6
10°	1017.0	1020.6	1018.8	1018.8	1018.8	1018.8	1020.6	1022.4	1027.8	1029.6	1027.8
12.5°	1004.4	1006.2	1004.4	1006.2	1006.2	1006.2	1006.2	1008.0	1013.4	1015.2	1015.2
15°	988.2	990.0	988.2	990.0	988.2	990.0	990.0	993.6	997.2	999.0	1000.8
17.5°	968.4	968.4	968.4	970.2	970.2	970.2	970.2	973.8	979.2	981.0	981.0
20°	945.0	946.8	948.6	948.6	948.6	950.4	950.4	952.2	959.4	959.4	961.2
22.5°	923.4	923.4	925.2	925.2	927.0	927.0	927.0	928.8	936.0	936.0	936.0
25°	896.4	896.4	900.0	901.8	901.8	901.8	903.6	905.4	912.6	912.6	912.6
27.5°	867.6	867.6	873.0	871.2	873.0	874.8	876.6	880.2	883.8	885.6	885.6
30°	838.8	838.8	842.4	842.4	844.2	844.2	846.0	849.6	855.0	855.0	856.8
32.5°	810.0	810.0	811.8	813.6	815.4	813.6	815.4	819.0	824.4	824.4	826.2
35°	777.6	775.8	779.4	781.2	781.2	783.0	783.0	786.6	792.0	792.0	793.8
37.5°	745.2	743.4	747.0	748.8	750.6	750.6	750.6	754.2	757.8	759.6	761.4
40°	711.0	709.2	714.6	716.4	716.4	716.4	716.4	720.0	723.6	725.4	727.2
42.5°	673.2	675.0	678.6	682.2	682.2	682.2	684.0	684.0	689.4	691.2	693.0
45°	639.0	640.8	642.6	648.0	646.2	644.4	648.0	648.0	653.4	653.4	655.2
47.5°	603.0	604.8	604.8	610.2	610.2	608.4	612.0	612.0	615.6	615.6	619.2
50°	567.0	568.8	568.8	574.2	574.2	572.4	576.0	576.0	579.6	579.6	583.2
52.5°	527.4	531.0	531.0	536.4	538.2	536.4	538.2	538.2	541.8	541.8	545.4
55°	489.6	493.2	495.0	496.8	500.4	498.6	500.4	502.2	505.8	504.0	507.6
57.5°	450.0	450.0	453.6	455.4	457.2	457.2	462.6	460.8	460.8	466.2	468.0
60°	410.4	412.2	415.8	417.6	419.4	419.4	421.2	423.0	424.8	424.8	428.4
62.5°	372.6	376.2	378.0	379.8	381.6	379.8	385.2	387.0	388.8	388.8	388.8
65°	334.8	336.6	340.2	342.0	342.0	342.0	347.4	349.2	349.2	351.0	351.0
67.5°	295.2	298.8	302.4	302.4	306.0	304.2	309.6	311.4	311.4	313.2	315.0
70°	257.4	259.2	262.8	264.6	268.2	266.4	270.0	271.8	273.6	275.4	277.2
72.5°	219.6	221.4	225.0	226.8	228.6	230.4	232.2	235.8	237.6	239.4	239.4
75°	181.8	183.6	187.2	189.0	190.8	192.6	194.4	198.0	198.0	201.6	201.6
77.5°	145.8	147.6	149.4	151.2	154.8	156.6	158.4	160.2	162.0	163.8	163.8
80°	109.8	109.8	113.4	115.2	118.8	118.8	120.6	122.4	126.0	126.0	126.0
82.5°	73.8	75.6	77.4	79.2	82.8	82.8	84.6	88.2	90.0	90.0	90.0
85°	39.6	41.4	45.0	46.8	48.6	48.6	52.2	54.0	55.8	55.8	55.8
87.5°	9.0	10.8	12.6	14.4	18.0	19.8	19.8	21.6	23.4	23.4	23.4
90°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
92.5°	3.6	3.6	3.6	3.6	3.6	5.4	7.2	9.0	9.0	7.2	9.0
95°	7.2	7.2	9.0	12.6	16.2	18.0	25.2	27.0	23.4	19.8	19.8
97.5°	12.6	16.2	21.6	32.4	39.6	45.0	54.0	50.4	43.2	37.8	34.2
100°	25.2	34.2	46.8	68.4	79.2	88.2	91.8	82.8	72.0	61.2	54.0
102.5°	45.0	68.4	97.2	131.4	142.2	145.8	144.0	126.0	108.0	90.0	79.2
105°	93.6	136.8	187.2	212.4	217.8	214.2	196.2	176.4	151.2	127.8	109.8
107.5°	201.6	262.8	295.2	298.8	293.4	282.6	255.6	228.6	198.0	171.0	145.8
110°	358.2	390.6	390.6	374.4	360.0	347.4	313.2	282.6	248.4	216.0	189.0



TEST NUMBER: P303147

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	493.2	487.8	464.4	435.6	419.4	403.2	367.2	334.8	297.0	264.6	232.2
115°	577.8	552.6	523.8	491.4	473.4	453.6	421.2	383.4	343.8	311.4	277.2
117.5°	633.6	604.8	572.4	541.8	523.8	509.4	471.6	428.4	392.4	358.2	324.0
120°	678.6	648.0	617.4	586.8	570.6	554.4	514.8	477.0	435.6	401.4	369.0
122.5°	716.4	687.6	657.0	628.2	612.0	594.0	558.0	520.2	486.0	444.6	414.0
125°	754.2	727.2	694.8	667.8	649.8	630.0	597.6	559.8	525.6	491.4	459.0
127.5°	786.6	759.6	732.6	702.0	684.0	666.0	633.6	597.6	565.2	532.8	502.2
130°	815.4	792.0	763.2	732.6	714.6	698.4	666.0	633.6	603.0	572.4	541.8
132.5°	846.0	819.0	792.0	761.4	745.2	729.0	700.2	669.6	639.0	610.2	581.4
135°	871.2	844.2	815.4	784.8	772.2	757.8	730.8	702.0	673.2	646.2	619.2
137.5°	894.6	864.0	837.0	808.2	797.4	784.8	757.8	730.8	705.6	680.4	653.4
140°	912.6	882.0	856.8	831.6	820.8	808.2	781.2	759.6	736.2	711.0	685.8
142.5°	927.0	898.2	873.0	851.4	840.6	831.6	806.4	784.8	763.2	739.8	716.4
145°	939.6	914.4	891.0	869.4	862.2	851.4	828.0	810.0	790.2	766.8	745.2
147.5°	950.4	928.8	907.2	887.4	878.4	869.4	847.8	831.6	811.8	793.8	772.2
150°	961.2	941.4	921.6	903.6	896.4	887.4	865.8	851.4	837.0	819.0	799.2
152.5°	968.4	950.4	932.4	918.0	910.8	903.6	883.8	873.0	856.8	840.6	822.6
155°	975.6	959.4	943.2	930.6	925.2	918.0	901.8	891.0	876.6	860.4	844.2
157.5°	981.0	966.6	952.2	941.4	936.0	930.6	914.4	907.2	894.6	880.2	864.0
160°	982.8	970.2	959.4	950.4	945.0	939.6	927.0	919.8	909.0	896.4	882.0
162.5°	982.8	973.8	963.0	957.6	952.2	946.8	936.0	930.6	921.6	910.8	898.2
165°	982.8	975.6	966.6	961.2	957.6	954.0	945.0	939.6	930.6	925.2	912.6
167.5°	982.8	975.6	968.4	964.8	961.2	957.6	952.2	948.6	941.4	936.0	925.2
170°	979.2	972.0	968.4	966.6	963.0	961.2	955.8	954.0	948.6	945.0	936.0
172.5°	973.8	968.4	966.6	964.8	963.0	961.2	957.6	955.8	952.2	950.4	945.0
175°	966.6	963.0	961.2	961.2	961.2	959.4	955.8	957.6	955.8	955.8	950.4
177.5°	955.8	954.0	954.0	954.0	955.8	954.0	954.0	955.8	955.8	957.6	954.0
180°	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4



TEST NUMBER: P303147

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0
2.5°	1047.6	1044.0	1042.2	1042.2	1040.4	1036.8	1036.8	1038.6	1042.2	1049.4	1044.0
5°	1044.0	1042.2	1036.8	1036.8	1036.8	1035.0	1031.4	1035.0	1040.4	1045.8	1038.6
7.5°	1036.8	1035.0	1031.4	1031.4	1031.4	1027.8	1026.0	1029.6	1033.2	1036.8	1031.4
10°	1027.8	1024.2	1022.4	1020.6	1020.6	1017.0	1015.2	1018.8	1022.4	1026.0	1022.4
12.5°	1015.2	1011.6	1008.0	1008.0	1006.2	1004.4	1002.6	1006.2	1009.8	1013.4	1009.8
15°	999.0	995.4	991.8	991.8	991.8	986.4	986.4	988.2	993.6	995.4	990.0
17.5°	981.0	975.6	972.0	973.8	972.0	966.6	968.4	968.4	975.6	975.6	972.0
20°	959.4	954.0	952.2	952.2	950.4	946.8	946.8	948.6	954.0	952.2	948.6
22.5°	936.0	930.6	930.6	928.8	928.8	923.4	923.4	925.2	930.6	927.0	923.4
25°	910.8	907.2	905.4	905.4	901.8	898.2	898.2	900.0	905.4	900.0	898.2
27.5°	882.0	880.2	878.4	878.4	874.8	871.2	873.0	873.0	876.6	873.0	869.4
30°	855.0	851.4	849.6	849.6	846.0	840.6	842.4	842.4	847.8	842.4	842.4
32.5°	826.2	820.8	820.8	819.0	815.4	811.8	813.6	815.4	817.2	810.0	811.8
35°	793.8	788.4	788.4	786.6	783.0	781.2	781.2	783.0	783.0	777.6	777.6
37.5°	761.4	757.8	756.0	754.2	750.6	748.8	750.6	752.4	750.6	745.2	745.2
40°	727.2	723.6	720.0	720.0	718.2	716.4	716.4	720.0	716.4	711.0	711.0
42.5°	693.0	689.4	685.8	685.8	684.0	684.0	684.0	685.8	680.4	678.6	675.0
45°	657.0	653.4	649.8	649.8	648.0	648.0	648.0	648.0	644.4	642.6	640.8
47.5°	621.0	617.4	613.8	613.8	612.0	613.8	613.8	612.0	606.6	606.6	604.8
50°	585.0	581.4	577.8	577.8	577.8	577.8	577.8	576.0	572.4	570.6	568.8
52.5°	547.2	543.6	540.0	541.8	540.0	541.8	540.0	538.2	534.6	532.8	531.0
55°	509.4	505.8	504.0	505.8	504.0	504.0	502.2	500.4	496.8	496.8	493.2
57.5°	469.8	464.4	464.4	466.2	464.4	464.4	460.8	459.0	455.4	455.4	451.8
60°	428.4	426.6	426.6	426.6	426.6	424.8	423.0	423.0	419.4	417.6	414.0
62.5°	390.6	390.6	388.8	390.6	387.0	387.0	385.2	383.4	381.6	379.8	378.0
65°	352.8	351.0	351.0	349.2	349.2	349.2	347.4	345.6	343.8	342.0	340.2
67.5°	313.2	313.2	313.2	313.2	311.4	311.4	309.6	307.8	304.2	306.0	302.4
70°	275.4	275.4	275.4	275.4	273.6	273.6	271.8	270.0	266.4	268.2	266.4
72.5°	237.6	237.6	237.6	237.6	235.8	235.8	232.2	232.2	232.2	230.4	228.6
75°	199.8	199.8	199.8	198.0	198.0	198.0	194.4	194.4	194.4	194.4	190.8
77.5°	162.0	163.8	162.0	162.0	160.2	160.2	160.2	158.4	158.4	156.6	154.8
80°	124.2	126.0	126.0	126.0	124.2	124.2	124.2	122.4	120.6	120.6	118.8
82.5°	91.8	90.0	90.0	90.0	88.2	88.2	88.2	86.4	86.4	84.6	82.8
85°	55.8	55.8	55.8	55.8	54.0	54.0	52.2	50.4	50.4	46.8	46.8
87.5°	25.2	23.4	23.4	23.4	23.4	21.6	19.8	18.0	18.0	16.2	16.2
90°	1.8	1.8	3.6	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
92.5°	12.6	16.2	18.0	19.8	18.0	19.8	19.8	19.8	18.0	18.0	18.0
95°	21.6	25.2	30.6	32.4	34.2	37.8	39.6	39.6	39.6	37.8	37.8
97.5°	34.2	37.8	39.6	41.4	41.4	46.8	50.4	54.0	57.6	57.6	59.4
100°	52.2	50.4	54.0	57.6	57.6	57.6	59.4	63.0	66.6	68.4	72.0
102.5°	73.8	68.4	68.4	70.2	72.0	77.4	75.6	77.4	79.2	81.0	82.8
105°	99.0	93.6	88.2	88.2	88.2	91.8	97.2	100.8	97.2	97.2	99.0
107.5°	131.4	120.6	111.6	109.8	109.8	108.0	111.6	117.0	120.6	122.4	120.6
110°	167.4	151.2	142.2	133.2	131.4	129.6	129.6	131.4	136.8	142.2	145.8



TEST NUMBER: P303147

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	208.8	189.0	172.8	165.6	158.4	151.2	149.4	149.4	151.2	156.6	160.2
115°	252.0	228.6	207.0	198.0	192.6	178.2	171.0	167.4	169.2	171.0	174.6
117.5°	297.0	271.8	246.6	235.8	228.6	212.4	198.0	192.6	189.0	187.2	190.8
120°	342.0	316.8	291.6	277.2	266.4	248.4	232.2	217.8	210.6	207.0	205.2
122.5°	385.2	360.0	334.8	320.4	309.6	286.2	270.0	252.0	239.4	230.4	225.0
125°	428.4	403.2	378.0	363.6	352.8	327.6	307.8	291.6	275.4	261.0	250.2
127.5°	471.6	444.6	419.4	406.8	396.0	369.0	347.4	331.2	315.0	298.8	284.4
130°	514.8	491.4	464.4	448.2	439.2	412.2	390.6	370.8	356.4	340.2	322.2
132.5°	552.6	531.0	505.8	493.2	480.6	453.6	435.6	414.0	397.8	381.6	365.4
135°	592.2	568.8	543.6	532.8	522.0	500.4	478.8	457.2	439.2	423.0	406.8
137.5°	626.4	606.6	581.4	570.6	559.8	540.0	520.2	504.0	486.0	468.0	448.2
140°	660.6	639.0	617.4	606.6	595.8	579.6	559.8	545.4	527.4	513.0	493.2
142.5°	691.2	669.6	651.6	640.8	630.0	613.8	595.8	583.2	568.8	552.6	540.0
145°	721.8	702.0	684.0	673.2	664.2	648.0	630.0	621.0	608.4	592.2	577.8
147.5°	748.8	730.8	712.8	703.8	696.6	680.4	666.0	655.2	644.4	630.0	617.4
150°	775.8	757.8	741.6	734.4	725.4	712.8	700.2	687.6	680.4	666.0	655.2
152.5°	801.0	784.8	768.6	763.2	756.0	741.6	729.0	718.2	712.8	700.2	691.2
155°	826.2	810.0	793.8	790.2	783.0	770.4	757.8	748.8	743.4	730.8	721.8
157.5°	847.8	831.6	819.0	813.6	806.4	795.6	784.8	777.6	774.0	763.2	754.2
160°	867.6	853.2	840.6	835.2	829.8	819.0	811.8	802.8	801.0	792.0	784.8
162.5°	883.8	871.2	860.4	856.8	851.4	842.4	835.2	826.2	824.4	819.0	811.8
165°	900.0	887.4	878.4	874.8	871.2	862.2	856.8	849.6	847.8	844.2	837.0
167.5°	914.4	903.6	894.6	892.8	889.2	882.0	878.4	871.2	869.4	867.6	860.4
170°	925.2	916.2	909.0	907.2	903.6	898.2	894.6	889.2	887.4	889.2	882.0
172.5°	934.2	927.0	921.6	919.8	918.0	914.4	910.8	907.2	905.4	909.0	901.8
175°	943.2	936.0	932.4	930.6	930.6	927.0	925.2	921.6	921.6	925.2	919.8
177.5°	948.6	943.2	939.6	939.6	937.8	936.0	936.0	932.4	936.0	939.6	934.2
180°	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4



TEST NUMBER: P303147

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0
2.5°	1047.6	1044.0	1044.0	1042.2	1040.4	1038.6	1038.6	1038.6
5°	1042.2	1040.4	1038.6	1035.0	1035.0	1036.8	1038.6	1038.6
7.5°	1033.2	1033.2	1031.4	1029.6	1027.8	1031.4	1031.4	1033.2
10°	1024.2	1022.4	1020.6	1018.8	1017.0	1018.8	1018.8	1018.8
12.5°	1009.8	1008.0	1006.2	1002.6	1002.6	1004.4	1004.4	1008.0
15°	993.6	991.8	988.2	988.2	986.4	988.2	988.2	990.0
17.5°	973.8	970.2	968.4	966.6	966.6	968.4	968.4	966.6
20°	950.4	946.8	943.2	941.4	941.4	943.2	943.2	946.8
22.5°	923.4	919.8	918.0	916.2	916.2	918.0	918.0	919.8
25°	898.2	894.6	892.8	891.0	891.0	891.0	891.0	892.8
27.5°	871.2	865.8	862.2	862.2	860.4	860.4	860.4	862.2
30°	838.8	833.4	831.6	831.6	829.8	829.8	829.8	831.6
32.5°	806.4	802.8	801.0	799.2	797.4	799.2	797.4	799.2
35°	774.0	768.6	768.6	768.6	766.8	766.8	765.0	766.8
37.5°	741.6	736.2	734.4	734.4	732.6	732.6	732.6	734.4
40°	707.4	702.0	702.0	700.2	698.4	698.4	698.4	700.2
42.5°	671.4	667.8	666.0	666.0	664.2	664.2	664.2	664.2
45°	635.4	630.0	630.0	631.8	628.2	628.2	628.2	628.2
47.5°	599.4	595.8	595.8	595.8	592.2	592.2	592.2	592.2
50°	563.4	561.6	559.8	559.8	559.8	558.0	558.0	558.0
52.5°	527.4	525.6	523.8	525.6	522.0	522.0	522.0	522.0
55°	489.6	487.8	487.8	489.6	486.0	486.0	484.2	486.0
57.5°	448.2	446.4	446.4	446.4	446.4	444.6	444.6	444.6
60°	412.2	410.4	410.4	410.4	408.6	408.6	408.6	408.6
62.5°	374.4	374.4	374.4	372.6	372.6	370.8	370.8	372.6
65°	338.4	336.6	336.6	336.6	334.8	334.8	333.0	333.0
67.5°	300.6	300.6	300.6	298.8	298.8	297.0	297.0	298.8
70°	264.6	264.6	262.8	262.8	262.8	261.0	261.0	262.8
72.5°	228.6	226.8	226.8	225.0	226.8	223.2	223.2	225.0
75°	190.8	190.8	189.0	189.0	189.0	187.2	187.2	187.2
77.5°	154.8	154.8	153.0	153.0	153.0	151.2	151.2	151.2
80°	118.8	117.0	117.0	117.0	117.0	115.2	113.4	115.2
82.5°	81.0	81.0	81.0	81.0	79.2	77.4	75.6	77.4
85°	46.8	45.0	45.0	46.8	45.0	45.0	45.0	43.2
87.5°	16.2	14.4	14.4	14.4	14.4	16.2	14.4	14.4
90°	3.6	3.6	3.6	5.4	5.4	5.4	5.4	5.4
92.5°	18.0	18.0	16.2	16.2	16.2	16.2	14.4	14.4
95°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
97.5°	59.4	59.4	57.6	57.6	57.6	57.6	57.6	57.6
100°	73.8	75.6	75.6	75.6	77.4	77.4	77.4	77.4
102.5°	86.4	86.4	88.2	88.2	88.2	90.0	90.0	90.0
105°	99.0	100.8	100.8	100.8	102.6	102.6	104.4	104.4
107.5°	118.8	118.8	118.8	118.8	120.6	120.6	120.6	120.6
110°	145.8	145.8	144.0	142.2	142.2	142.2	140.4	140.4



TEST NUMBER: P303147

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	163.8	167.4	167.4	169.2	171.0	171.0	171.0	171.0
115°	178.2	181.8	183.6	185.4	187.2	187.2	189.0	189.0
117.5°	192.6	194.4	196.2	198.0	199.8	201.6	201.6	203.4
120°	207.0	208.8	210.6	210.6	212.4	214.2	214.2	214.2
122.5°	223.2	225.0	223.2	223.2	225.0	225.0	225.0	226.8
125°	244.8	243.0	241.2	241.2	239.4	239.4	239.4	239.4
127.5°	273.6	270.0	266.4	262.8	261.0	259.2	257.4	257.4
130°	309.6	302.4	297.0	293.4	289.8	286.2	282.6	282.6
132.5°	351.0	342.0	336.6	331.2	325.8	320.4	315.0	316.8
135°	394.2	387.0	379.8	374.4	367.2	360.0	356.4	356.4
137.5°	435.6	426.6	421.2	417.6	412.2	405.0	399.6	401.4
140°	482.4	466.2	462.6	459.0	453.6	446.4	442.8	442.8
142.5°	523.8	511.2	507.6	505.8	498.6	491.4	487.8	489.6
145°	565.2	552.6	550.8	547.2	541.8	534.6	531.0	531.0
147.5°	604.8	594.0	592.2	588.6	583.2	576.0	572.4	572.4
150°	644.4	633.6	630.0	628.2	622.8	615.6	612.0	613.8
152.5°	680.4	669.6	667.8	666.0	658.8	655.2	651.6	653.4
155°	714.6	703.8	702.0	700.2	696.6	691.2	689.4	691.2
157.5°	747.0	738.0	736.2	734.4	730.8	725.4	723.6	727.2
160°	777.6	770.4	768.6	766.8	765.0	761.4	757.8	759.6
162.5°	806.4	799.2	799.2	797.4	795.6	792.0	790.2	792.0
165°	833.4	828.0	826.2	824.4	822.6	820.8	819.0	817.2
167.5°	858.6	851.4	851.4	847.8	847.8	846.0	844.2	844.2
170°	880.2	874.8	874.8	871.2	871.2	869.4	867.6	867.6
172.5°	900.0	896.4	894.6	894.6	894.6	892.8	891.0	891.0
175°	919.8	916.2	914.4	912.6	912.6	910.8	909.0	910.8
177.5°	936.0	934.2	932.4	930.6	930.6	927.0	925.2	923.4
180°	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4

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