

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: P303156

Luminaire Tested: **CTW-F-5050-40L930-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303156
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-5050-40L930-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 4000 LUMEN PACKAGE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

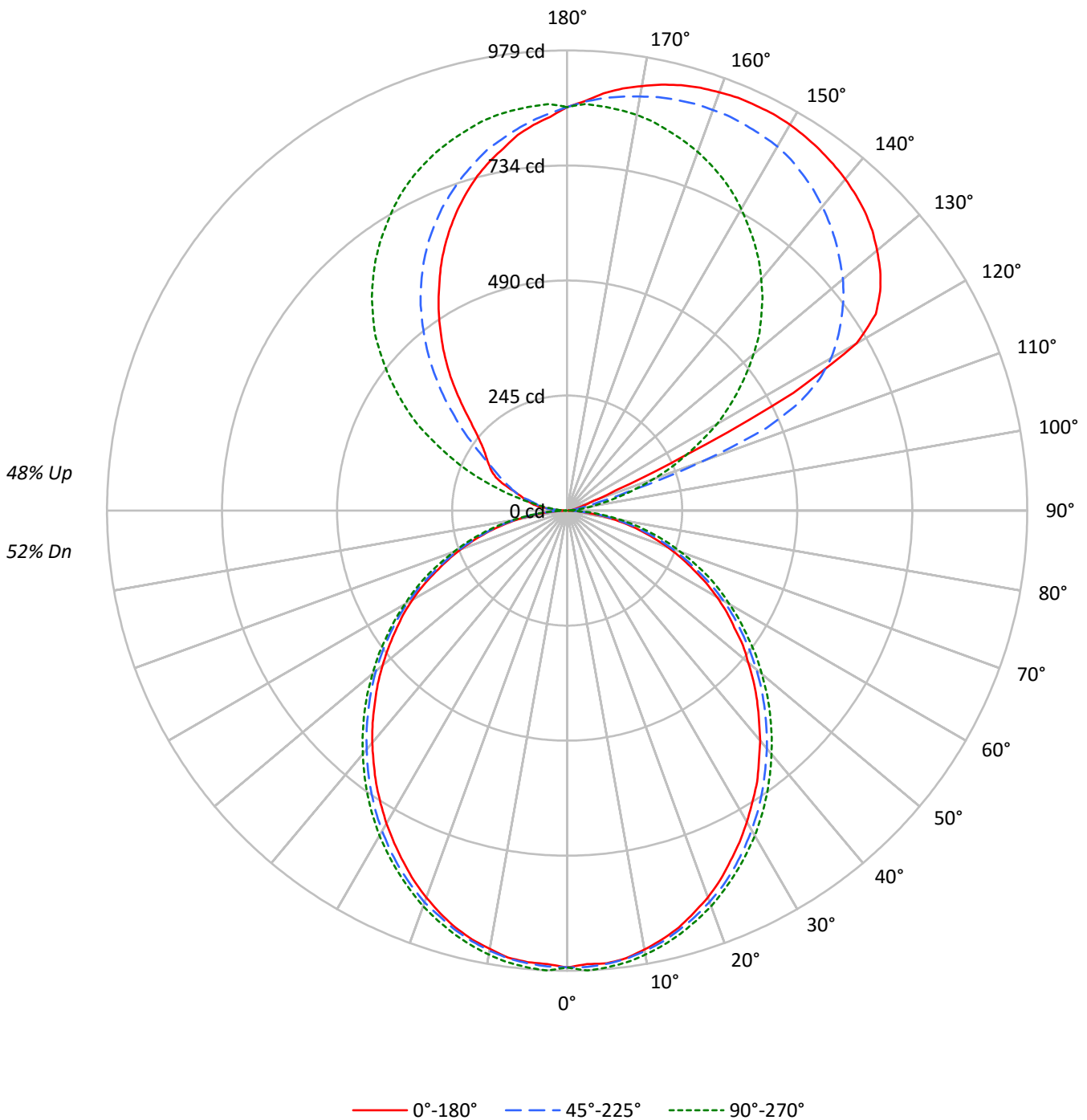
Lumens per Lamp: N/A
Luminaire Lumens: 5023.8 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: General Diffuse

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			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°	13949	13949	13949
5°	13930	14055	13894
10°	13818	13982	13799
15°	13643	13848	13643
20°	13376	13682	13376
25°	13020	13454	13060
30°	12674	13233	12736
35°	12350	12962	12415
40°	11968	12669	12084
45°	11597	12383	11750
50°	11226	12061	11450
55°	10864	11738	11145
60°	10563	11459	10922
65°	10042	11227	10466
70°	9530	10784	10104
75°	8784	10375	9549
80°	7529	9695	8662
85°	4726	8431	6570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.8
10°-20°	259.7	5.2
20°-30°	384.4	7.7
30°-40°	451.3	9.0
40°-50°	457.5	9.1
50°-60°	408.1	8.1
60°-70°	311.4	6.2
70°-80°	183.9	3.7
80°-90°	49.6	1.0
90°-100°	25.0	0.5
100°-110°	104.0	2.1
110°-120°	293.5	5.8
120°-130°	427.8	8.5
130°-140°	460.8	9.2
140°-150°	438.4	8.7
150°-160°	359.8	7.2
160°-170°	235.3	4.7
170°-180°	81.5	1.6
0°-30°	735.9	14.6
0°-40°	1187.1	23.6
0°-60°	2052.7	40.9
0°-90°	2597.6	51.7
90°-120°	422.5	8.4
90°-150°	1749.6	34.8
90°-180°	2426.0	48.3
0°-180°	5023.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	972	972	972	972	972	
5°	967	968	976	967	964	92
15°	918	923	932	923	918	258
25°	822	840	850	841	825	379
35°	705	725	740	727	709	440
45°	571	594	610	598	579	441
55°	434	454	469	462	445	390
65°	296	309	331	317	308	294
75°	158	168	187	177	172	167
85°	29	36	51	45	40	37
90°	1	1	1	5	8	1
95°	6	8	19	35	32	7
105°	27	70	115	82	94	32
115°	272	546	280	150	167	321
125°	813	712	444	241	213	720
135°	897	808	584	392	313	692
145°	937	873	695	544	470	588
155°	951	903	781	669	618	440
165°	937	904	836	765	737	265
175°	891	881	863	833	823	86
180°	858	858	858	858	858	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	965.6	964.4	966.9	969.4	969.4	970.6	971.9	973.1	973.1	975.6	971.9
5°	966.9	964.4	965.6	965.6	964.4	965.6	966.9	969.4	969.4	971.9	968.1
7.5°	960.6	959.4	960.6	959.4	958.2	959.4	960.6	961.9	961.9	964.4	961.9
10°	948.2	948.2	948.2	948.2	948.2	949.4	950.7	951.9	951.9	954.4	951.9
12.5°	934.5	934.5	934.5	935.7	933.2	934.5	936.9	939.4	939.4	941.9	939.4
15°	918.2	918.2	919.5	920.7	919.5	919.5	920.7	923.2	923.2	925.7	923.2
17.5°	897.0	897.0	898.3	900.8	899.5	900.8	902.0	904.5	905.8	905.8	905.8
20°	875.8	874.6	875.8	877.1	877.1	878.3	878.3	882.1	884.5	884.5	885.8
22.5°	850.9	848.4	850.9	852.1	852.1	853.4	853.4	857.1	859.6	860.8	864.6
25°	822.2	822.2	823.4	825.9	825.9	827.2	828.4	832.1	834.6	834.6	839.6
27.5°	794.7	793.5	794.7	797.2	799.7	801.0	801.0	804.7	808.4	810.9	813.4
30°	764.8	764.8	766.0	768.5	771.0	769.8	771.0	776.0	779.7	782.2	784.7
32.5°	733.6	733.6	734.8	737.3	741.1	741.1	742.3	746.1	748.6	751.1	756.0
35°	704.9	702.4	703.6	706.1	711.1	709.9	711.1	714.9	717.4	721.1	724.9
37.5°	670.0	670.0	671.2	673.7	678.7	677.4	679.9	682.4	686.2	689.9	692.4
40°	638.8	640.0	638.8	641.3	645.0	646.3	646.3	648.8	653.7	657.5	661.2
42.5°	603.8	605.1	606.3	608.8	612.6	612.6	613.8	616.3	620.1	623.8	627.5
45°	571.4	571.4	571.4	573.9	578.9	578.9	581.4	581.4	585.1	590.1	593.9
47.5°	537.7	537.7	537.7	541.5	545.2	545.2	547.7	547.7	552.7	556.4	560.2
50°	502.8	505.3	504.0	506.5	511.5	510.3	512.8	512.8	516.5	521.5	525.2
52.5°	471.6	471.6	469.1	472.8	476.6	476.6	477.8	477.8	482.8	486.6	490.3
55°	434.2	436.7	434.2	437.9	441.6	441.6	444.1	444.1	445.4	450.4	454.1
57.5°	403.0	403.0	400.5	403.0	406.7	406.7	409.2	409.2	411.7	414.2	420.4
60°	368.0	366.8	365.5	369.3	371.8	371.8	374.3	374.3	376.8	378.0	384.3
62.5°	333.1	331.9	331.9	334.4	336.9	335.6	339.3	339.3	341.8	344.3	348.1
65°	295.7	294.4	294.4	296.9	298.2	298.2	300.7	301.9	303.2	306.9	309.4
67.5°	262.0	260.7	259.5	262.0	263.2	263.2	265.7	267.0	269.5	270.7	273.2
70°	227.1	225.8	224.6	227.1	229.6	228.3	230.8	232.1	233.3	235.8	238.3
72.5°	192.1	192.1	192.1	193.4	194.6	194.6	195.9	197.1	199.6	202.1	203.4
75°	158.4	157.2	157.2	159.7	159.7	159.7	162.2	163.4	163.4	167.2	168.4
77.5°	124.8	126.0	124.8	124.8	124.8	126.0	127.3	128.5	131.0	133.5	134.7
80°	91.1	92.3	91.1	92.3	91.1	92.3	94.8	94.8	97.3	99.8	101.1
82.5°	58.6	59.9	58.6	59.9	59.9	59.9	61.1	62.4	64.9	66.1	68.6
85°	28.7	27.4	28.7	28.7	28.7	28.7	31.2	31.2	33.7	34.9	36.2
87.5°	3.7	3.7	3.7	3.7	5.0	3.7	5.0	6.2	6.2	7.5	7.5
90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
92.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
95°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.5	7.5
97.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	11.2	11.2	12.5	13.7
100°	13.7	13.7	15.0	15.0	15.0	15.0	15.0	16.2	17.5	20.0	22.5
102.5°	20.0	20.0	20.0	21.2	21.2	22.5	22.5	25.0	27.4	31.2	38.7
105°	27.4	28.7	28.7	28.7	31.2	31.2	32.4	36.2	42.4	52.4	69.9
107.5°	38.7	39.9	39.9	42.4	44.9	47.4	49.9	61.1	76.1	106.0	149.7
110°	59.9	61.1	62.4	68.6	77.4	84.8	94.8	123.5	168.4	234.5	306.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	112.3	118.5	126.0	143.5	173.4	192.1	213.3	288.2	360.6	424.2	459.1
115°	272.0	288.2	304.4	343.1	394.2	424.2	445.4	510.3	541.5	553.9	546.4
117.5°	542.7	556.4	567.7	588.9	613.8	622.6	626.3	640.0	633.8	623.8	605.1
120°	711.1	716.1	714.9	714.9	714.9	711.1	708.6	699.9	684.9	670.0	648.8
122.5°	778.5	779.7	774.8	768.5	761.0	757.3	752.3	738.6	722.4	704.9	682.4
125°	813.4	813.4	808.4	802.2	793.5	788.5	781.0	768.5	752.3	734.8	712.4
127.5°	839.6	838.4	834.6	829.7	819.7	815.9	808.4	794.7	778.5	763.5	741.1
130°	860.8	859.6	854.6	852.1	843.4	837.1	830.9	817.2	801.0	786.0	766.0
132.5°	880.8	878.3	873.3	870.8	862.1	857.1	850.9	838.4	822.2	808.4	787.2
135°	897.0	893.3	889.5	887.0	879.6	873.3	868.3	855.9	842.1	827.2	808.4
137.5°	909.5	907.0	902.0	899.5	892.0	887.0	882.1	872.1	859.6	844.6	827.2
140°	920.7	917.0	914.5	910.7	904.5	899.5	894.5	885.8	873.3	860.8	844.6
142.5°	929.5	927.0	924.5	922.0	914.5	910.7	905.8	898.3	888.3	875.8	860.8
145°	936.9	934.5	932.0	929.5	923.2	919.5	915.7	908.3	899.5	887.0	873.3
147.5°	943.2	940.7	938.2	936.9	930.7	927.0	923.2	918.2	908.3	895.8	885.8
150°	948.2	945.7	943.2	940.7	935.7	932.0	930.7	924.5	914.5	904.5	894.5
152.5°	950.7	948.2	946.9	944.4	939.4	935.7	934.5	928.2	919.5	908.3	899.5
155°	950.7	949.4	946.9	945.7	939.4	935.7	934.5	928.2	920.7	910.7	903.3
157.5°	950.7	948.2	946.9	944.4	938.2	935.7	934.5	929.5	923.2	914.5	907.0
160°	946.9	945.7	944.4	941.9	936.9	934.5	934.5	929.5	923.2	915.7	907.0
162.5°	943.2	940.7	939.4	938.2	934.5	933.2	932.0	928.2	922.0	915.7	907.0
165°	936.9	935.7	933.2	932.0	928.2	927.0	925.7	923.2	917.0	913.2	904.5
167.5°	928.2	925.7	924.5	922.0	918.2	918.2	918.2	915.7	912.0	909.5	900.8
170°	917.0	914.5	913.2	912.0	909.5	909.5	909.5	908.3	904.5	903.3	894.5
172.5°	905.8	904.5	903.3	902.0	898.3	898.3	898.3	898.3	895.8	895.8	888.3
175°	890.8	889.5	888.3	888.3	885.8	887.0	887.0	887.0	885.8	888.3	880.8
177.5°	872.1	869.6	872.1	874.6	873.3	874.6	875.8	875.8	874.6	877.1	870.8
180°	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	968.1	969.4	968.1	969.4	969.4	969.4	969.4	973.1	976.9	979.4	978.1
5°	964.4	965.6	964.4	965.6	965.6	965.6	965.6	969.4	974.4	975.6	973.1
7.5°	956.9	958.2	958.2	958.2	958.2	958.2	958.2	963.1	966.9	969.4	966.9
10°	946.9	948.2	948.2	948.2	949.4	949.4	949.4	953.2	958.2	959.4	956.9
12.5°	934.5	935.7	935.7	935.7	936.9	936.9	936.9	940.7	945.7	946.9	945.7
15°	919.5	920.7	920.7	920.7	922.0	922.0	922.0	925.7	930.7	932.0	930.7
17.5°	902.0	902.0	902.0	902.0	904.5	905.8	904.5	908.3	913.2	914.5	913.2
20°	880.8	882.1	882.1	883.3	884.5	885.8	885.8	889.5	894.5	895.8	893.3
22.5°	859.6	859.6	860.8	862.1	862.1	863.3	863.3	867.1	872.1	873.3	872.1
25°	835.9	835.9	837.1	839.6	839.6	840.9	840.9	844.6	848.4	849.6	848.4
27.5°	809.7	808.4	810.9	812.2	813.4	815.9	814.7	819.7	823.4	824.7	823.4
30°	783.5	782.2	784.7	786.0	787.2	788.5	788.5	793.5	797.2	798.5	797.2
32.5°	754.8	753.5	756.0	758.5	758.5	759.8	759.8	764.8	767.3	769.8	767.3
35°	724.9	722.4	726.1	728.6	727.3	729.8	729.8	734.8	737.3	739.8	737.3
37.5°	694.9	693.7	694.9	697.4	697.4	698.7	698.7	703.6	707.4	708.6	707.4
40°	663.7	662.5	663.7	667.5	666.2	667.5	668.7	672.5	674.9	676.2	674.9
42.5°	630.0	630.0	631.3	635.0	633.8	635.0	636.3	640.0	642.5	643.8	642.5
45°	596.4	597.6	596.4	602.6	600.1	601.3	603.8	605.1	608.8	610.1	607.6
47.5°	562.7	565.2	563.9	568.9	567.7	567.7	568.9	572.6	575.1	576.4	575.1
50°	527.7	530.2	529.0	535.2	532.7	534.0	535.2	537.7	539.0	540.2	540.2
52.5°	492.8	494.0	496.5	500.3	499.0	500.3	501.5	502.8	504.0	506.5	504.0
55°	457.9	459.1	461.6	464.1	465.4	465.4	466.6	469.1	467.8	469.1	470.3
57.5°	422.9	425.4	425.4	430.4	430.4	430.4	430.4	434.2	432.9	435.4	435.4
60°	386.8	386.8	389.3	393.0	394.2	394.2	395.5	398.0	396.7	399.2	400.5
62.5°	350.6	353.1	355.6	358.1	360.6	358.1	361.8	363.1	364.3	365.5	364.3
65°	311.9	314.4	316.9	319.4	319.4	319.4	320.6	325.6	325.6	330.6	329.4
67.5°	275.7	278.2	280.7	283.2	284.5	284.5	285.7	288.2	290.7	291.9	290.7
70°	239.5	242.0	247.0	248.3	250.8	248.3	252.0	253.3	255.8	257.0	255.8
72.5°	204.6	207.1	210.8	212.1	214.6	215.8	217.1	217.1	220.8	222.1	222.1
75°	169.7	172.2	175.9	177.2	179.7	180.9	182.1	182.1	185.9	187.1	185.9
77.5°	136.0	137.2	141.0	142.2	144.7	146.0	147.2	147.2	151.0	152.2	151.0
80°	102.3	103.6	107.3	108.5	111.0	111.0	112.3	113.5	116.0	117.3	116.0
82.5°	69.9	71.1	73.6	76.1	77.4	78.6	79.8	81.1	82.3	83.6	82.3
85°	37.4	38.7	42.4	43.7	46.2	47.4	47.4	48.7	51.2	51.2	51.2
87.5°	8.7	11.2	13.7	15.0	17.5	17.5	18.7	18.7	21.2	22.5	21.2
90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
92.5°	3.7	3.7	5.0	5.0	6.2	6.2	8.7	10.0	8.7	7.5	7.5
95°	8.7	10.0	12.5	16.2	17.5	20.0	25.0	26.2	21.2	18.7	17.5
97.5°	16.2	20.0	26.2	36.2	39.9	44.9	51.2	48.7	39.9	33.7	31.2
100°	28.7	37.4	52.4	71.1	78.6	84.8	86.1	79.8	66.1	54.9	48.7
102.5°	51.2	72.4	103.6	129.8	134.7	138.5	132.2	118.5	98.6	81.1	71.1
105°	102.3	146.0	188.4	204.6	204.6	200.9	182.1	163.4	137.2	114.8	98.6
107.5°	210.8	260.7	285.7	280.7	272.0	259.5	234.5	210.8	179.7	152.2	132.2
110°	355.6	374.3	366.8	348.1	331.9	316.9	285.7	257.0	223.3	194.6	170.9



TEST NUMBER: P303156

CATALOG NUMBER: CTW-F-5050-40L930-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	464.1	450.4	430.4	399.2	384.3	369.3	336.9	304.4	267.0	238.3	210.8
115°	532.7	507.8	480.3	449.1	432.9	416.7	385.5	350.6	310.7	279.5	252.0
117.5°	582.6	552.7	524.0	494.0	476.6	460.4	430.4	393.0	355.6	321.9	294.4
120°	622.6	591.4	562.7	532.7	517.8	502.8	471.6	434.2	398.0	368.0	338.1
122.5°	657.5	626.3	598.8	570.2	556.4	540.2	507.8	471.6	435.4	406.7	379.3
125°	688.7	660.0	632.5	606.3	591.4	573.9	541.5	506.5	472.8	444.1	417.9
127.5°	717.4	691.2	665.0	638.8	625.0	605.1	575.1	541.5	510.3	481.6	456.6
130°	743.6	719.9	693.7	667.5	652.5	635.0	605.1	573.9	545.2	517.8	492.8
132.5°	768.5	744.8	719.9	692.4	678.7	662.5	635.0	605.1	577.6	553.9	529.0
135°	791.0	767.3	742.3	716.1	701.1	687.4	661.2	633.8	607.6	583.9	558.9
137.5°	810.9	786.0	762.3	737.3	723.6	711.1	686.2	660.0	637.5	615.1	590.1
140°	828.4	802.2	779.7	754.8	743.6	733.6	707.4	686.2	665.0	642.5	621.3
142.5°	842.1	817.2	796.0	773.5	763.5	752.3	729.8	709.9	689.9	670.0	648.8
145°	854.6	829.7	810.9	789.7	779.7	771.0	749.8	729.8	713.6	694.9	673.7
147.5°	865.8	843.4	824.7	805.9	797.2	788.5	768.5	751.1	736.1	717.4	698.7
150°	873.3	854.6	838.4	819.7	813.4	804.7	786.0	771.0	756.0	741.1	722.4
152.5°	879.6	863.3	848.4	833.4	827.2	818.4	802.2	789.7	777.3	762.3	744.8
155°	883.3	870.8	857.1	843.4	837.1	830.9	817.2	804.7	793.5	781.0	763.5
157.5°	888.3	877.1	864.6	852.1	847.1	840.9	828.4	818.4	808.4	797.2	782.2
160°	890.8	880.8	869.6	859.6	854.6	850.9	837.1	830.9	822.2	812.2	798.5
162.5°	892.0	883.3	874.6	865.8	862.1	857.1	847.1	840.9	833.4	824.7	813.4
165°	892.0	885.8	877.1	870.8	867.1	862.1	854.6	849.6	843.4	835.9	825.9
167.5°	890.8	885.8	878.3	873.3	870.8	867.1	859.6	855.9	852.1	847.1	837.1
170°	887.0	883.3	878.3	874.6	870.8	868.3	863.3	860.8	858.3	854.6	845.9
172.5°	882.1	879.6	874.6	873.3	870.8	868.3	864.6	864.6	862.1	859.6	853.4
175°	875.8	874.6	870.8	869.6	869.6	867.1	864.6	864.6	865.8	863.3	858.3
177.5°	867.1	867.1	864.6	864.6	864.6	863.3	862.1	864.6	865.8	865.8	862.1
180°	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3



TEST NUMBER: P303156

CATALOG NUMBER: CTW-F-5050-40L930-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	975.6	971.9	969.4	969.4	969.4	966.9	965.6	966.9	970.6	976.9	970.6
5°	970.6	966.9	965.6	965.6	965.6	963.1	961.9	963.1	966.9	973.1	966.9
7.5°	964.4	960.6	959.4	959.4	958.2	955.7	955.7	955.7	960.6	964.4	959.4
10°	954.4	950.7	949.4	949.4	948.2	945.7	945.7	945.7	950.7	954.4	949.4
12.5°	941.9	938.2	936.9	936.9	935.7	933.2	933.2	933.2	938.2	940.7	936.9
15°	927.0	923.2	922.0	922.0	920.7	918.2	918.2	918.2	923.2	924.5	920.7
17.5°	909.5	905.8	904.5	904.5	902.0	900.8	899.5	899.5	904.5	905.8	902.0
20°	890.8	885.8	885.8	884.5	882.1	880.8	880.8	879.6	887.0	884.5	882.1
22.5°	868.3	864.6	864.6	863.3	860.8	859.6	858.3	858.3	864.6	859.6	857.1
25°	845.9	840.9	842.1	839.6	838.4	835.9	834.6	834.6	840.9	834.6	833.4
27.5°	822.2	817.2	814.7	814.7	813.4	809.7	808.4	808.4	814.7	808.4	807.2
30°	793.5	791.0	788.5	788.5	784.7	783.5	782.2	782.2	787.2	781.0	779.7
32.5°	766.0	762.3	761.0	759.8	758.5	754.8	753.5	754.8	758.5	751.1	749.8
35°	736.1	733.6	732.3	729.8	728.6	726.1	724.9	726.1	727.3	721.1	718.6
37.5°	703.6	702.4	701.1	698.7	697.4	696.2	694.9	696.2	696.2	689.9	687.4
40°	672.5	670.0	668.7	667.5	667.5	665.0	663.7	666.2	663.7	661.2	656.2
42.5°	641.3	637.5	637.5	635.0	635.0	632.5	632.5	633.8	631.3	628.8	623.8
45°	607.6	606.3	605.1	602.6	602.6	600.1	600.1	601.3	597.6	595.1	591.4
47.5°	573.9	573.9	571.4	568.9	570.2	568.9	567.7	567.7	565.2	562.7	558.9
50°	540.2	539.0	535.2	536.5	537.7	534.0	535.2	531.5	531.5	529.0	524.0
52.5°	505.3	504.0	502.8	501.5	502.8	500.3	500.3	497.8	496.5	494.0	490.3
55°	471.6	470.3	467.8	467.8	469.1	465.4	465.4	462.9	461.6	459.1	455.4
57.5°	436.7	435.4	434.2	432.9	434.2	431.7	430.4	429.2	426.7	424.2	421.7
60°	401.7	400.5	398.0	396.7	398.0	395.5	394.2	393.0	391.7	388.0	385.5
62.5°	365.5	363.1	363.1	361.8	363.1	360.6	359.3	358.1	355.6	353.1	353.1
65°	329.4	328.1	328.1	324.4	326.9	324.4	319.4	319.4	316.9	314.4	314.4
67.5°	290.7	289.4	289.4	288.2	288.2	288.2	286.9	284.5	280.7	280.7	280.7
70°	255.8	254.5	254.5	252.0	253.3	252.0	250.8	248.3	245.8	245.8	245.8
72.5°	219.6	218.3	218.3	217.1	218.3	217.1	215.8	213.3	210.8	212.1	210.8
75°	184.6	183.4	184.6	182.1	183.4	182.1	180.9	178.4	177.2	178.4	177.2
77.5°	149.7	149.7	149.7	149.7	148.5	147.2	146.0	144.7	144.7	144.7	142.2
80°	116.0	114.8	114.8	114.8	114.8	113.5	112.3	111.0	111.0	111.0	108.5
82.5°	82.3	82.3	82.3	82.3	81.1	82.3	78.6	77.4	77.4	77.4	74.9
85°	49.9	49.9	51.2	49.9	49.9	48.7	46.2	44.9	44.9	43.7	42.4
87.5°	22.5	20.0	20.0	20.0	18.7	18.7	18.7	16.2	16.2	16.2	13.7
90°	2.5	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0	6.2
92.5°	11.2	15.0	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
95°	20.0	22.5	27.4	29.9	32.4	34.9	34.9	36.2	34.9	33.7	33.7
97.5°	29.9	33.7	34.9	36.2	38.7	43.7	47.4	51.2	53.6	54.9	54.9
100°	46.2	44.9	47.4	51.2	51.2	49.9	53.6	57.4	61.1	64.9	66.1
102.5°	66.1	61.1	59.9	61.1	63.6	68.6	66.1	67.4	68.6	71.1	74.9
105°	89.8	82.3	77.4	76.1	77.4	79.8	84.8	86.1	82.3	83.6	84.8
107.5°	117.3	106.0	98.6	96.1	94.8	94.8	97.3	102.3	106.0	104.8	102.3
110°	151.0	133.5	123.5	118.5	116.0	113.5	113.5	116.0	119.8	124.8	128.5



TEST NUMBER: P303156

CATALOG NUMBER: CTW-F-5050-40L930-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	188.4	167.2	152.2	144.7	141.0	132.2	131.0	132.2	133.5	137.2	142.2
115°	228.3	202.1	183.4	174.7	169.7	155.9	149.7	148.5	149.7	151.0	153.5
117.5°	268.2	242.0	218.3	208.3	200.9	184.6	173.4	169.7	165.9	167.2	167.2
120°	311.9	280.7	258.3	244.5	237.0	217.1	202.1	193.4	185.9	183.4	182.1
122.5°	351.8	324.4	296.9	286.9	274.5	252.0	235.8	222.1	210.8	203.4	199.6
125°	389.3	363.1	338.1	326.9	314.4	289.4	272.0	255.8	240.8	230.8	220.8
127.5°	430.4	403.0	378.0	368.0	355.6	330.6	309.4	294.4	278.2	263.2	249.5
130°	464.1	440.4	416.7	406.7	395.5	371.8	350.6	333.1	313.1	299.4	284.5
132.5°	501.5	476.6	454.1	442.9	431.7	409.2	389.3	371.8	353.1	340.6	324.4
135°	535.2	511.5	487.8	479.1	466.6	446.6	427.9	409.2	391.7	376.8	363.1
137.5°	567.7	544.0	522.7	512.8	501.5	482.8	465.4	451.6	431.7	416.7	401.7
140°	597.6	575.1	555.2	545.2	536.5	516.5	501.5	487.8	469.1	455.4	439.2
142.5°	626.3	605.1	587.6	577.6	567.7	548.9	534.0	521.5	506.5	491.6	477.8
145°	653.7	632.5	616.3	607.6	597.6	580.1	566.4	553.9	544.0	527.7	514.0
147.5°	679.9	658.7	643.8	636.3	627.5	611.3	598.8	586.4	577.6	562.7	550.2
150°	703.6	684.9	671.2	663.7	655.0	640.0	628.8	617.6	610.1	595.1	586.4
152.5°	727.3	709.9	697.4	689.9	682.4	667.5	656.2	645.0	641.3	626.3	618.8
155°	748.6	731.1	719.9	713.6	707.4	692.4	682.4	671.2	668.7	656.2	647.5
157.5°	768.5	752.3	741.1	736.1	729.8	716.1	707.4	697.4	696.2	684.9	677.4
160°	786.0	771.0	761.0	754.8	749.8	738.6	729.8	722.4	719.9	712.4	704.9
162.5°	802.2	789.7	779.7	774.8	771.0	759.8	752.3	744.8	743.6	738.6	729.8
165°	815.9	803.5	796.0	792.2	788.5	778.5	772.3	766.0	764.8	762.3	753.5
167.5°	828.4	817.2	810.9	807.2	803.5	796.0	791.0	786.0	786.0	783.5	776.0
170°	838.4	828.4	823.4	820.9	818.4	810.9	805.9	802.2	802.2	803.5	794.7
172.5°	847.1	839.6	834.6	830.9	829.7	824.7	820.9	817.2	818.4	820.9	813.4
175°	854.6	847.1	843.4	842.1	840.9	835.9	833.4	832.1	833.4	837.1	830.9
177.5°	859.6	854.6	852.1	850.9	850.9	845.9	844.6	844.6	845.9	852.1	844.6
180°	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3



TEST NUMBER: P303156

CATALOG NUMBER: CTW-F-5050-40L930-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	973.1	971.9	970.6	969.4	968.1	966.9	964.4	965.6
5°	968.1	966.9	965.6	964.4	964.4	964.4	963.1	964.4
7.5°	960.6	959.4	958.2	956.9	956.9	958.2	956.9	959.4
10°	950.7	948.2	948.2	945.7	945.7	945.7	945.7	946.9
12.5°	936.9	934.5	934.5	932.0	932.0	932.0	933.2	934.5
15°	920.7	919.5	918.2	917.0	917.0	918.2	917.0	918.2
17.5°	902.0	899.5	899.5	898.3	898.3	897.0	897.0	898.3
20°	879.6	877.1	877.1	875.8	874.6	874.6	874.6	875.8
22.5°	854.6	853.4	852.1	849.6	850.9	850.9	849.6	852.1
25°	829.7	828.4	827.2	825.9	825.9	824.7	823.4	824.7
27.5°	804.7	802.2	801.0	799.7	798.5	797.2	796.0	797.2
30°	777.3	772.3	773.5	772.3	769.8	768.5	767.3	768.5
32.5°	747.3	744.8	742.3	742.3	739.8	738.6	737.3	738.6
35°	717.4	713.6	712.4	712.4	709.9	708.6	707.4	708.6
37.5°	686.2	682.4	681.2	681.2	678.7	676.2	676.2	676.2
40°	653.7	650.0	650.0	650.0	647.5	645.0	645.0	645.0
42.5°	621.3	618.8	617.6	617.6	615.1	611.3	611.3	612.6
45°	588.9	586.4	585.1	583.9	582.6	578.9	578.9	578.9
47.5°	553.9	553.9	551.4	551.4	548.9	547.7	546.4	546.4
50°	522.7	520.2	517.8	517.8	516.5	512.8	512.8	512.8
52.5°	487.8	486.6	484.1	484.1	481.6	479.1	479.1	479.1
55°	454.1	452.9	450.4	450.4	447.9	446.6	445.4	445.4
57.5°	419.2	419.2	416.7	416.7	413.0	413.0	411.7	414.2
60°	383.0	384.3	381.8	380.5	378.0	378.0	378.0	380.5
62.5°	350.6	349.3	346.8	346.8	345.6	344.3	345.6	345.6
65°	313.1	310.7	309.4	309.4	308.2	306.9	305.7	308.2
67.5°	278.2	277.0	274.5	274.5	274.5	273.2	273.2	274.5
70°	243.3	242.0	240.8	240.8	239.5	239.5	239.5	240.8
72.5°	208.3	208.3	208.3	207.1	205.9	204.6	207.1	205.9
75°	174.7	173.4	173.4	173.4	172.2	170.9	169.7	172.2
77.5°	141.0	139.7	139.7	139.7	138.5	137.2	137.2	138.5
80°	107.3	106.0	106.0	106.0	104.8	104.8	103.6	104.8
82.5°	72.4	72.4	72.4	72.4	69.9	71.1	71.1	69.9
85°	41.2	39.9	39.9	39.9	39.9	39.9	38.7	39.9
87.5°	12.5	12.5	12.5	13.7	12.5	13.7	13.7	13.7
90°	6.2	6.2	6.2	6.2	6.2	6.2	7.5	7.5
92.5°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
95°	32.4	33.7	32.4	32.4	32.4	32.4	32.4	32.4
97.5°	54.9	54.9	54.9	54.9	53.6	52.4	52.4	52.4
100°	68.6	69.9	71.1	71.1	72.4	72.4	72.4	72.4
102.5°	77.4	78.6	78.6	79.8	81.1	81.1	81.1	81.1
105°	86.1	86.1	87.3	88.6	91.1	92.3	93.6	93.6
107.5°	101.1	101.1	102.3	102.3	102.3	103.6	103.6	103.6
110°	127.3	122.3	122.3	121.0	119.8	119.8	119.8	119.8



TEST NUMBER: P303156

CATALOG NUMBER: CTW-F-5050-40L930-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	146.0	147.2	148.5	149.7	148.5	146.0	146.0	146.0
115°	158.4	160.9	163.4	164.7	165.9	165.9	167.2	167.2
117.5°	170.9	173.4	174.7	175.9	178.4	178.4	180.9	180.9
120°	183.4	185.9	185.9	187.1	188.4	189.6	190.9	190.9
122.5°	198.4	199.6	199.6	199.6	200.9	200.9	202.1	202.1
125°	217.1	214.6	213.3	214.6	213.3	213.3	213.3	213.3
127.5°	240.8	235.8	234.5	233.3	230.8	228.3	228.3	228.3
130°	272.0	264.5	260.7	259.5	255.8	250.8	250.8	249.5
132.5°	308.2	299.4	294.4	293.2	286.9	280.7	278.2	277.0
135°	350.6	340.6	334.4	333.1	323.1	316.9	314.4	313.1
137.5°	388.0	378.0	374.3	371.8	365.5	359.3	355.6	354.3
140°	426.7	417.9	411.7	409.2	401.7	398.0	394.2	394.2
142.5°	465.4	456.6	450.4	447.9	441.6	436.7	432.9	432.9
145°	502.8	494.0	487.8	485.3	479.1	474.1	471.6	470.3
147.5°	540.2	531.5	526.5	524.0	517.8	512.8	509.0	509.0
150°	576.4	567.7	562.7	557.7	553.9	548.9	546.4	545.2
152.5°	610.1	602.6	597.6	592.6	588.9	586.4	582.6	582.6
155°	640.0	633.8	628.8	625.0	622.6	618.8	617.6	617.6
157.5°	671.2	663.7	660.0	656.2	653.7	652.5	650.0	650.0
160°	699.9	692.4	689.9	686.2	683.7	681.2	679.9	681.2
162.5°	727.3	722.4	718.6	714.9	713.6	711.1	709.9	709.9
165°	751.1	746.1	743.6	741.1	738.6	737.3	736.1	737.3
167.5°	773.5	768.5	766.0	763.5	762.3	762.3	761.0	761.0
170°	793.5	789.7	788.5	784.7	783.5	783.5	782.2	782.2
172.5°	812.2	809.7	808.4	805.9	805.9	805.9	804.7	805.9
175°	830.9	828.4	827.2	824.7	824.7	823.4	822.2	823.4
177.5°	847.1	845.9	843.4	842.1	840.9	839.6	837.1	838.4
180°	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3

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