

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: P303122

Luminaire Tested: **CTW-F-5050-20L930-UNV-STD-6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTW-F-5050-20L930-UNV-STD-6  
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE  
50% UPLIGHT, 50% DOWNLIGHT, 2000 LUMEN PACKAGE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

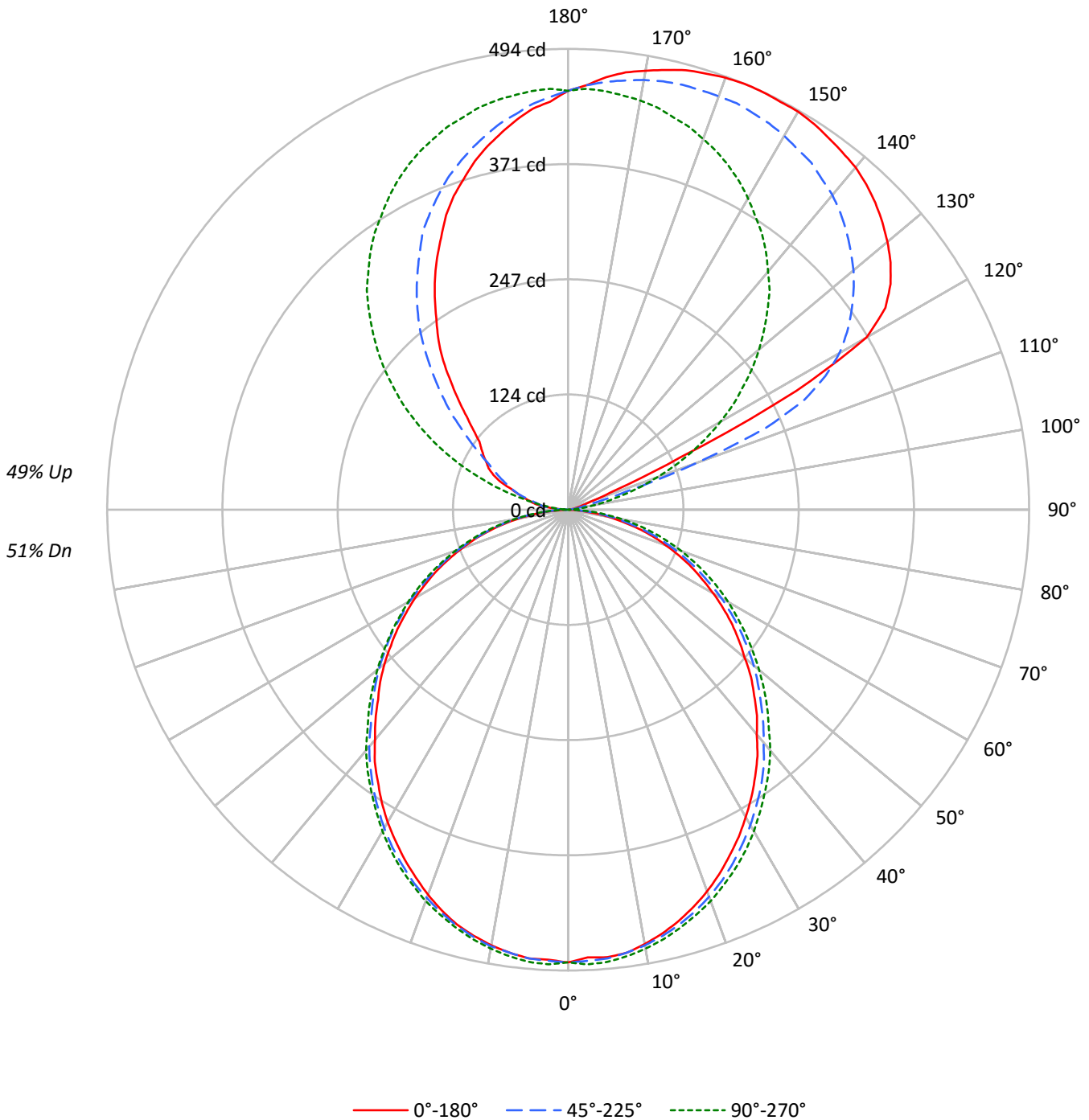
Lumens per Lamp: N/A  
Luminaire Lumens: 2554.8 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.31  
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 24  
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	93	89	86	90	86	83	80	73	71	68	61	59	58	50	49	48	42
2	89	81	75	70	82	75	70	65	64	60	57	54	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	51	47	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	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	37	31	27	31	27	23	26	22	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	18	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°	6965	6965	6965
5°	6938	7010	6956
10°	6890	6963	6909
15°	6784	6896	6841
20°	6650	6821	6708
25°	6480	6717	6559
30°	6306	6596	6410
35°	6120	6448	6230
40°	5890	6312	6031
45°	5724	6128	5849
50°	5515	5961	5738
55°	5370	5808	5587
60°	5158	5695	5442
65°	4958	5549	5294
70°	4658	5392	5077
75°	4292	5190	4841
80°	3612	4843	4331
85°	2058	4314	3293



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.8	1.8
10°-20°	129.7	5.1
20°-30°	192.1	7.5
30°-40°	225.3	8.8
40°-50°	226.6	8.9
50°-60°	202.1	7.9
60°-70°	155.1	6.1
70°-80°	92.2	3.6
80°-90°	25.0	1.0
90°-100°	11.9	0.5
100°-110°	53.0	2.1
110°-120°	151.1	5.9
120°-130°	222.6	8.7
130°-140°	240.0	9.4
140°-150°	228.6	8.9
150°-160°	188.1	7.4
160°-170°	123.0	4.8
170°-180°	42.7	1.7
0°-30°	367.6	14.4
0°-40°	592.9	23.2
0°-60°	1021.6	40.0
0°-90°	1293.9	50.6
90°-120°	216.0	8.5
90°-150°	907.1	35.5
90°-180°	1261.0	49.4
0°-180°	2554.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	485	485	485	485	485	
5°	482	483	487	483	483	46
15°	457	460	464	462	460	129
25°	409	418	424	420	414	189
35°	349	361	368	364	356	218
45°	282	292	302	297	288	218
55°	215	225	232	231	223	191
65°	146	154	163	160	156	144
75°	77	84	94	90	87	82
85°	12	18	26	24	20	17
90°	1	1	0	1	2	1
95°	2	2	9	16	15	3
105°	12	31	60	45	49	15
115°	132	280	146	80	89	161
125°	422	370	228	128	114	374
135°	465	422	302	205	166	359
145°	487	454	362	283	246	305
155°	494	469	407	351	322	228
165°	488	472	435	400	387	138
175°	465	460	450	437	432	45
180°	449	449	449	449	449	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	480.3	480.3	481.6	482.8	484.1	484.1	485.3	485.3	485.3	485.3	484.1
5°	481.6	480.3	481.6	481.6	481.6	481.6	482.8	484.1	484.1	484.1	482.8
7.5°	479.1	477.8	479.1	479.1	477.8	477.8	479.1	480.3	480.3	480.3	479.1
10°	472.8	471.6	472.8	472.8	472.8	472.8	474.1	474.1	475.3	475.3	474.1
12.5°	465.4	465.4	465.4	466.6	465.4	466.6	466.6	467.8	469.1	469.1	467.8
15°	456.6	456.6	457.9	459.1	457.9	459.1	459.1	460.4	460.4	461.6	460.4
17.5°	446.6	446.6	447.9	449.1	449.1	449.1	450.4	450.4	451.6	451.6	451.6
20°	435.4	435.4	435.4	437.9	437.9	437.9	437.9	439.2	441.6	441.6	441.6
22.5°	422.9	422.9	422.9	425.4	425.4	425.4	425.4	426.7	429.2	430.4	430.4
25°	409.2	409.2	409.2	411.7	411.7	411.7	411.7	414.2	416.7	416.7	417.9
27.5°	395.5	395.5	396.7	398.0	398.0	398.0	399.2	400.5	403.0	404.2	404.2
30°	380.5	380.5	380.5	383.0	383.0	384.3	384.3	386.8	388.0	390.5	390.5
32.5°	365.5	365.5	366.8	368.0	368.0	368.0	369.3	371.8	373.0	374.3	375.5
35°	349.3	349.3	350.6	351.8	353.1	353.1	353.1	355.6	356.8	359.3	360.6
37.5°	333.1	333.1	334.4	335.6	336.9	336.9	336.9	339.3	340.6	343.1	344.3
40°	314.4	314.4	314.4	316.9	316.9	318.1	318.1	319.4	321.9	324.4	325.6
42.5°	299.4	298.2	298.2	299.4	300.7	301.9	301.9	303.2	305.7	308.2	309.4
45°	282.0	282.0	282.0	283.2	284.5	284.5	285.7	286.9	288.2	291.9	291.9
47.5°	265.7	264.5	264.5	267.0	267.0	268.2	268.2	269.5	272.0	274.5	275.7
50°	247.0	248.3	248.3	249.5	250.8	250.8	252.0	252.0	254.5	257.0	259.5
52.5°	230.8	230.8	230.8	232.1	233.3	234.5	234.5	235.8	237.0	239.5	242.0
55°	214.6	214.6	214.6	215.8	215.8	217.1	217.1	218.3	219.6	222.1	224.6
57.5°	197.1	197.1	197.1	198.4	199.6	199.6	200.9	200.9	202.1	204.6	207.1
60°	179.7	179.7	179.7	180.9	182.1	182.1	183.4	183.4	184.6	187.1	189.6
62.5°	162.2	163.4	162.2	163.4	164.7	164.7	165.9	165.9	168.4	168.4	170.9
65°	146.0	146.0	146.0	146.0	147.2	147.2	147.2	149.7	149.7	152.2	153.5
67.5°	128.5	128.5	128.5	128.5	129.8	131.0	131.0	132.2	133.5	133.5	136.0
70°	111.0	112.3	112.3	111.0	112.3	113.5	113.5	114.8	116.0	116.0	118.5
72.5°	94.8	94.8	94.8	94.8	94.8	96.1	97.3	97.3	98.6	99.8	101.1
75°	77.4	77.4	78.6	77.4	77.4	78.6	79.8	81.1	81.1	82.3	83.6
77.5°	59.9	61.1	61.1	61.1	62.4	62.4	62.4	63.6	64.9	64.9	66.1
80°	43.7	44.9	44.9	44.9	46.2	44.9	46.2	47.4	47.4	48.7	49.9
82.5°	27.4	27.4	28.7	28.7	28.7	28.7	29.9	31.2	31.2	31.2	33.7
85°	12.5	12.5	13.7	13.7	13.7	13.7	15.0	15.0	16.2	16.2	17.5
87.5°	1.2	1.2	1.2	1.2	2.5	1.2	2.5	2.5	2.5	2.5	3.7
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°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
95°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
97.5°	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0	6.2
100°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.5	7.5	8.7	10.0
102.5°	8.7	8.7	8.7	8.7	10.0	10.0	10.0	11.2	11.2	13.7	16.2
105°	12.5	12.5	12.5	13.7	13.7	13.7	15.0	16.2	18.7	23.7	31.2
107.5°	17.5	18.7	18.7	18.7	21.2	21.2	23.7	27.4	33.7	48.7	68.6
110°	27.4	28.7	28.7	31.2	36.2	38.7	43.7	57.4	77.4	108.5	146.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	53.6	56.1	58.6	66.1	79.8	89.8	103.6	136.0	172.2	213.3	229.6
115°	132.2	133.5	144.7	159.7	190.9	208.3	224.6	253.3	275.7	280.7	279.5
117.5°	275.7	282.0	288.2	298.2	311.9	318.1	325.6	331.9	326.9	320.6	310.7
120°	369.3	366.8	369.3	370.5	369.3	369.3	368.0	363.1	354.3	345.6	335.6
122.5°	403.0	401.7	400.5	399.2	394.2	393.0	390.5	383.0	374.3	364.3	354.3
125°	421.7	420.4	417.9	415.5	411.7	409.2	406.7	399.2	390.5	380.5	370.5
127.5°	435.4	434.2	431.7	429.2	425.4	422.9	419.2	413.0	404.2	395.5	385.5
130°	446.6	445.4	442.9	441.6	436.7	435.4	431.7	424.2	416.7	409.2	399.2
132.5°	456.6	455.4	452.9	451.6	447.9	445.4	442.9	435.4	426.7	419.2	410.5
135°	465.4	464.1	462.9	461.6	457.9	455.4	451.6	445.4	437.9	430.4	421.7
137.5°	472.8	471.6	470.3	467.8	465.4	462.9	459.1	452.9	447.9	440.4	431.7
140°	479.1	477.8	475.3	474.1	471.6	469.1	466.6	461.6	455.4	449.1	440.4
142.5°	482.8	482.8	480.3	480.3	476.6	474.1	471.6	466.6	462.9	456.6	446.6
145°	486.6	486.6	485.3	484.1	481.6	479.1	476.6	472.8	467.8	462.9	454.1
147.5°	490.3	489.1	489.1	487.8	485.3	482.8	481.6	477.8	472.8	467.8	457.9
150°	492.8	491.6	491.6	490.3	487.8	485.3	484.1	481.6	476.6	471.6	462.9
152.5°	492.8	492.8	494.0	491.6	489.1	487.8	486.6	482.8	480.3	474.1	466.6
155°	494.0	494.0	494.0	492.8	489.1	487.8	486.6	484.1	481.6	476.6	469.1
157.5°	494.0	494.0	494.0	492.8	489.1	487.8	486.6	485.3	482.8	477.8	471.6
160°	492.8	492.8	492.8	492.8	490.3	487.8	486.6	485.3	482.8	477.8	471.6
162.5°	490.3	490.3	490.3	490.3	487.8	486.6	485.3	484.1	482.8	476.6	471.6
165°	487.8	487.8	487.8	486.6	484.1	484.1	482.8	481.6	480.3	475.3	471.6
167.5°	482.8	482.8	482.8	481.6	479.1	479.1	479.1	477.8	476.6	472.8	470.3
170°	477.8	477.8	477.8	476.6	475.3	475.3	475.3	474.1	474.1	470.3	467.8
172.5°	472.8	472.8	472.8	471.6	469.1	469.1	469.1	470.3	469.1	466.6	464.1
175°	465.4	464.1	464.1	464.1	464.1	462.9	464.1	464.1	464.1	461.6	460.4
177.5°	455.4	455.4	455.4	456.6	456.6	456.6	456.6	457.9	457.9	456.6	455.4
180°	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	482.8	484.1	482.8	482.8	482.8	482.8	482.8	484.1	486.6	487.8	486.6
5°	481.6	482.8	481.6	481.6	481.6	481.6	481.6	482.8	485.3	486.6	485.3
7.5°	477.8	479.1	477.8	477.8	477.8	477.8	477.8	479.1	482.8	482.8	482.8
10°	472.8	474.1	472.8	472.8	472.8	474.1	474.1	475.3	477.8	477.8	477.8
12.5°	466.6	467.8	466.6	466.6	467.8	467.8	466.6	469.1	471.6	471.6	471.6
15°	459.1	460.4	459.1	459.1	459.1	460.4	460.4	461.6	464.1	464.1	464.1
17.5°	449.1	450.4	450.4	450.4	451.6	451.6	451.6	452.9	455.4	455.4	455.4
20°	440.4	440.4	440.4	440.4	440.4	441.6	441.6	444.1	446.6	446.6	446.6
22.5°	429.2	429.2	430.4	429.2	430.4	431.7	430.4	432.9	435.4	435.4	435.4
25°	416.7	417.9	417.9	417.9	417.9	419.2	419.2	421.7	422.9	424.2	424.2
27.5°	404.2	404.2	405.5	405.5	405.5	406.7	406.7	409.2	411.7	411.7	411.7
30°	390.5	390.5	391.7	393.0	391.7	393.0	393.0	395.5	396.7	398.0	398.0
32.5°	375.5	375.5	378.0	378.0	378.0	379.3	379.3	380.5	383.0	383.0	384.3
35°	360.6	360.6	363.1	363.1	363.1	364.3	364.3	365.5	368.0	368.0	369.3
37.5°	344.3	345.6	346.8	348.1	346.8	348.1	348.1	350.6	351.8	353.1	353.1
40°	328.1	328.1	329.4	330.6	330.6	331.9	333.1	334.4	336.9	336.9	336.9
42.5°	309.4	310.7	311.9	313.1	313.1	314.4	315.6	315.6	316.9	318.1	318.1
45°	293.2	294.4	294.4	296.9	298.2	298.2	298.2	299.4	300.7	301.9	301.9
47.5°	277.0	278.2	279.5	282.0	280.7	280.7	282.0	282.0	283.2	284.5	285.7
50°	259.5	260.7	262.0	263.2	263.2	264.5	264.5	265.7	267.0	267.0	268.2
52.5°	242.0	243.3	245.8	245.8	247.0	247.0	248.3	248.3	249.5	249.5	250.8
55°	224.6	225.8	228.3	229.6	229.6	230.8	230.8	232.1	232.1	232.1	233.3
57.5°	207.1	208.3	210.8	212.1	212.1	213.3	213.3	214.6	214.6	214.6	215.8
60°	189.6	190.9	193.4	194.6	194.6	195.9	195.9	197.1	197.1	198.4	198.4
62.5°	173.4	173.4	175.9	177.2	177.2	177.2	178.4	179.7	179.7	180.9	182.1
65°	154.7	155.9	158.4	159.7	158.4	159.7	160.9	162.2	162.2	163.4	163.4
67.5°	137.2	138.5	141.0	141.0	141.0	142.2	143.5	144.7	144.7	146.0	146.0
70°	119.8	119.8	122.3	123.5	123.5	124.8	126.0	127.3	127.3	128.5	128.5
72.5°	101.1	102.3	104.8	106.0	107.3	107.3	108.5	108.5	111.0	111.0	111.0
75°	84.8	84.8	87.3	88.6	89.8	89.8	91.1	91.1	92.3	93.6	93.6
77.5°	67.4	68.6	69.9	71.1	72.4	72.4	73.6	73.6	74.9	76.1	76.1
80°	51.2	51.2	53.6	53.6	54.9	54.9	56.1	57.4	58.6	58.6	58.6
82.5°	33.7	34.9	37.4	37.4	38.7	38.7	39.9	39.9	41.2	41.2	42.4
85°	18.7	20.0	21.2	21.2	22.5	22.5	23.7	25.0	25.0	26.2	26.2
87.5°	3.7	6.2	6.2	7.5	7.5	8.7	8.7	10.0	11.2	11.2	11.2
90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	1.2	0.0	1.2
92.5°	1.2	1.2	1.2	2.5	2.5	2.5	3.7	3.7	3.7	3.7	5.0
95°	3.7	3.7	5.0	6.2	7.5	8.7	11.2	12.5	11.2	8.7	8.7
97.5°	6.2	8.7	11.2	16.2	18.7	21.2	25.0	23.7	21.2	17.5	16.2
100°	12.5	17.5	23.7	33.7	38.7	42.4	43.7	41.2	34.9	28.7	26.2
102.5°	22.5	33.7	48.7	64.9	68.6	69.9	67.4	61.1	52.4	43.7	37.4
105°	46.2	69.9	91.1	103.6	104.8	102.3	96.1	83.6	72.4	59.9	52.4
107.5°	99.8	131.0	143.5	144.7	141.0	134.7	122.3	108.5	94.8	81.1	69.9
110°	177.2	190.9	188.4	177.2	170.9	164.7	148.5	133.5	117.3	101.1	89.8





TEST NUMBER: P303122

CATALOG NUMBER: CTW-F-5050-20L930-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	235.8	232.1	220.8	205.9	198.4	190.9	174.7	158.4	138.5	123.5	111.0
115°	273.2	262.0	247.0	230.8	223.3	215.8	199.6	180.9	162.2	146.0	132.2
117.5°	299.4	285.7	270.7	254.5	245.8	238.3	220.8	202.1	184.6	167.2	154.7
120°	320.6	305.7	290.7	274.5	268.2	259.5	242.0	223.3	204.6	188.4	175.9
122.5°	340.6	325.6	309.4	295.7	286.9	279.5	260.7	243.3	225.8	209.6	197.1
125°	359.3	344.3	328.1	313.1	305.7	296.9	278.2	262.0	244.5	228.3	217.1
127.5°	373.0	360.6	346.8	331.9	323.1	314.4	295.7	279.5	263.2	248.3	235.8
130°	386.8	374.3	361.8	348.1	340.6	329.4	313.1	295.7	280.7	267.0	255.8
132.5°	398.0	388.0	374.3	361.8	353.1	344.3	328.1	311.9	298.2	284.5	273.2
135°	410.5	399.2	386.8	374.3	366.8	359.3	344.3	328.1	315.6	301.9	290.7
137.5°	420.4	409.2	398.0	385.5	378.0	370.5	358.1	343.1	330.6	319.4	306.9
140°	429.2	417.9	408.0	395.5	388.0	381.8	369.3	356.8	346.8	333.1	323.1
142.5°	436.7	425.4	416.7	404.2	396.7	391.7	380.5	368.0	359.3	348.1	339.3
145°	442.9	432.9	424.2	413.0	406.7	401.7	390.5	380.5	371.8	361.8	353.1
147.5°	450.4	439.2	431.7	420.4	415.5	410.5	400.5	390.5	383.0	373.0	365.5
150°	455.4	446.6	439.2	427.9	422.9	417.9	409.2	401.7	394.2	385.5	378.0
152.5°	459.1	451.6	444.1	434.2	430.4	426.7	417.9	410.5	404.2	396.7	389.3
155°	462.9	455.4	450.4	440.4	436.7	432.9	425.4	419.2	413.0	406.7	399.2
157.5°	465.4	459.1	454.1	445.4	442.9	439.2	432.9	426.7	421.7	415.5	409.2
160°	466.6	461.6	456.6	449.1	446.6	444.1	437.9	432.9	429.2	422.9	417.9
162.5°	466.6	462.9	457.9	451.6	449.1	446.6	442.9	437.9	435.4	430.4	425.4
165°	466.6	464.1	459.1	454.1	451.6	450.4	446.6	442.9	440.4	435.4	431.7
167.5°	465.4	462.9	459.1	455.4	454.1	451.6	449.1	445.4	444.1	441.6	436.7
170°	464.1	462.9	459.1	456.6	455.4	454.1	451.6	449.1	447.9	445.4	441.6
172.5°	461.6	461.6	459.1	456.6	455.4	454.1	451.6	450.4	450.4	447.9	445.4
175°	459.1	457.9	456.6	454.1	452.9	452.9	451.6	450.4	451.6	450.4	449.1
177.5°	452.9	454.1	451.6	451.6	450.4	450.4	450.4	450.4	451.6	451.6	450.4
180°	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1



TEST NUMBER: P303122

CATALOG NUMBER: CTW-F-5050-20L930-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	486.6	485.3	484.1	484.1	484.1	481.6	481.6	482.8	484.1	486.6	484.1
5°	485.3	484.1	482.8	482.8	482.8	480.3	480.3	481.6	482.8	485.3	482.8
7.5°	481.6	481.6	479.1	479.1	479.1	476.6	476.6	477.8	479.1	481.6	479.1
10°	477.8	476.6	474.1	474.1	474.1	472.8	471.6	472.8	475.3	476.6	474.1
12.5°	471.6	470.3	469.1	467.8	467.8	465.4	465.4	466.6	469.1	470.3	469.1
15°	464.1	462.9	461.6	460.4	460.4	459.1	457.9	459.1	461.6	462.9	460.4
17.5°	455.4	454.1	452.9	451.6	451.6	450.4	449.1	450.4	452.9	452.9	451.6
20°	445.4	444.1	442.9	442.9	442.9	440.4	440.4	440.4	442.9	442.9	440.4
22.5°	435.4	434.2	431.7	431.7	431.7	430.4	429.2	430.4	432.9	430.4	429.2
25°	424.2	421.7	420.4	420.4	419.2	416.7	417.9	417.9	420.4	419.2	416.7
27.5°	411.7	410.5	409.2	408.0	406.7	405.5	405.5	405.5	408.0	405.5	404.2
30°	398.0	396.7	395.5	394.2	394.2	391.7	391.7	393.0	394.2	391.7	390.5
32.5°	383.0	381.8	380.5	380.5	379.3	378.0	378.0	378.0	379.3	376.8	375.5
35°	369.3	366.8	365.5	365.5	364.3	363.1	363.1	364.3	364.3	361.8	360.6
37.5°	353.1	351.8	350.6	349.3	349.3	348.1	348.1	348.1	348.1	345.6	344.3
40°	338.1	335.6	334.4	333.1	333.1	333.1	333.1	333.1	331.9	329.4	326.9
42.5°	318.1	316.9	315.6	315.6	314.4	314.4	314.4	314.4	313.1	311.9	310.7
45°	301.9	300.7	299.4	298.2	299.4	299.4	298.2	298.2	296.9	295.7	294.4
47.5°	285.7	284.5	283.2	282.0	283.2	283.2	282.0	282.0	280.7	280.7	278.2
50°	268.2	267.0	265.7	265.7	267.0	265.7	265.7	264.5	264.5	263.2	260.7
52.5°	252.0	250.8	248.3	248.3	249.5	249.5	248.3	247.0	247.0	247.0	244.5
55°	234.5	233.3	232.1	232.1	233.3	232.1	230.8	229.6	230.8	229.6	227.1
57.5°	217.1	215.8	214.6	214.6	215.8	214.6	213.3	213.3	212.1	212.1	210.8
60°	199.6	198.4	197.1	198.4	198.4	197.1	195.9	195.9	195.9	193.4	193.4
62.5°	182.1	179.7	179.7	179.7	180.9	179.7	178.4	178.4	177.2	175.9	175.9
65°	163.4	162.2	163.4	162.2	162.2	162.2	160.9	160.9	159.7	158.4	158.4
67.5°	146.0	144.7	146.0	144.7	144.7	144.7	144.7	143.5	142.2	142.2	141.0
70°	128.5	127.3	128.5	127.3	127.3	127.3	127.3	126.0	124.8	123.5	123.5
72.5°	111.0	109.8	109.8	109.8	109.8	109.8	108.5	108.5	107.3	107.3	107.3
75°	93.6	92.3	92.3	92.3	92.3	91.1	91.1	91.1	89.8	89.8	89.8
77.5°	76.1	74.9	76.1	76.1	74.9	74.9	74.9	74.9	73.6	72.4	72.4
80°	58.6	58.6	58.6	58.6	58.6	58.6	57.4	57.4	57.4	56.1	56.1
82.5°	42.4	42.4	42.4	42.4	41.2	41.2	41.2	41.2	39.9	38.7	38.7
85°	26.2	26.2	26.2	26.2	25.0	26.2	25.0	23.7	23.7	22.5	21.2
87.5°	12.5	12.5	11.2	10.0	10.0	10.0	8.7	10.0	8.7	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°	6.2	7.5	8.7	8.7	8.7	7.5	7.5	7.5	7.5	7.5	6.2
95°	10.0	12.5	13.7	15.0	16.2	17.5	17.5	17.5	16.2	16.2	16.2
97.5°	16.2	17.5	18.7	18.7	20.0	21.2	23.7	25.0	26.2	27.4	26.2
100°	25.0	23.7	26.2	26.2	26.2	26.2	27.4	28.7	31.2	32.4	33.7
102.5°	34.9	32.4	32.4	33.7	33.7	34.9	34.9	34.9	36.2	37.4	38.7
105°	47.4	43.7	42.4	41.2	41.2	42.4	44.9	44.9	44.9	44.9	44.9
107.5°	62.4	57.4	52.4	51.2	49.9	51.2	52.4	54.9	56.1	56.1	54.9
110°	79.8	72.4	66.1	63.6	61.1	59.9	61.1	61.1	63.6	66.1	67.4



TEST NUMBER: P303122

CATALOG NUMBER: CTW-F-5050-20L930-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	99.8	88.6	79.8	78.6	74.9	71.1	69.9	69.9	71.1	72.4	74.9
115°	118.5	107.3	97.3	93.6	89.8	83.6	81.1	78.6	79.8	79.8	82.3
117.5°	141.0	127.3	116.0	111.0	106.0	98.6	92.3	89.8	88.6	88.6	88.6
120°	162.2	149.7	134.7	129.8	124.8	116.0	108.5	102.3	98.6	96.1	96.1
122.5°	182.1	169.7	155.9	149.7	143.5	134.7	126.0	117.3	112.3	107.3	104.8
125°	203.4	190.9	175.9	170.9	163.4	153.5	144.7	136.0	128.5	122.3	117.3
127.5°	223.3	210.8	195.9	189.6	184.6	174.7	163.4	154.7	146.0	139.7	132.2
130°	242.0	229.6	215.8	209.6	204.6	194.6	183.4	174.7	165.9	158.4	149.7
132.5°	260.7	248.3	235.8	229.6	223.3	214.6	203.4	194.6	184.6	177.2	170.9
135°	278.2	265.7	254.5	248.3	243.3	233.3	223.3	214.6	204.6	197.1	190.9
137.5°	295.7	283.2	272.0	265.7	260.7	252.0	243.3	234.5	224.6	217.1	209.6
140°	310.7	299.4	288.2	283.2	278.2	269.5	262.0	254.5	245.8	237.0	229.6
142.5°	326.9	315.6	305.7	299.4	294.4	285.7	278.2	272.0	264.5	255.8	249.5
145°	343.1	330.6	321.9	314.4	310.7	301.9	294.4	289.4	283.2	275.7	269.5
147.5°	355.6	345.6	338.1	333.1	326.9	318.1	310.7	305.7	300.7	293.2	288.2
150°	368.0	359.3	350.6	348.1	343.1	335.6	329.4	323.1	318.1	310.7	305.7
152.5°	381.8	371.8	365.5	360.6	356.8	349.3	343.1	339.3	336.9	328.1	324.4
155°	393.0	384.3	376.8	373.0	370.5	363.1	356.8	354.3	350.6	345.6	340.6
157.5°	403.0	395.5	388.0	384.3	383.0	375.5	370.5	366.8	364.3	360.6	355.6
160°	411.7	405.5	398.0	395.5	393.0	386.8	381.8	379.3	378.0	374.3	370.5
162.5°	420.4	414.2	408.0	405.5	403.0	398.0	393.0	390.5	389.3	386.8	383.0
165°	426.7	421.7	416.7	414.2	413.0	406.7	403.0	401.7	400.5	399.2	395.5
167.5°	434.2	429.2	424.2	422.9	420.4	416.7	413.0	411.7	410.5	410.5	406.7
170°	439.2	435.4	431.7	430.4	429.2	424.2	421.7	420.4	420.4	420.4	416.7
172.5°	444.1	441.6	436.7	436.7	435.4	431.7	429.2	429.2	427.9	429.2	425.4
175°	447.9	445.4	441.6	441.6	440.4	437.9	435.4	435.4	436.7	437.9	434.2
177.5°	450.4	447.9	445.4	445.4	444.1	442.9	440.4	441.6	442.9	444.1	441.6
180°	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1



TEST NUMBER: P303122

CATALOG NUMBER: CTW-F-5050-20L930-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	486.6	485.3	484.1	484.1	482.8	482.8	482.8	482.8
5°	484.1	482.8	482.8	481.6	481.6	481.6	482.8	482.8
7.5°	481.6	479.1	479.1	477.8	477.8	477.8	479.1	479.1
10°	475.3	475.3	474.1	472.8	472.8	472.8	472.8	474.1
12.5°	469.1	467.8	467.8	465.4	465.4	466.6	466.6	467.8
15°	461.6	460.4	459.1	459.1	459.1	459.1	459.1	460.4
17.5°	452.9	451.6	450.4	449.1	449.1	450.4	450.4	450.4
20°	441.6	439.2	439.2	437.9	437.9	437.9	439.2	439.2
22.5°	429.2	426.7	426.7	425.4	425.4	426.7	426.7	426.7
25°	416.7	415.5	414.2	413.0	413.0	413.0	414.2	414.2
27.5°	404.2	401.7	401.7	400.5	400.5	400.5	400.5	400.5
30°	390.5	388.0	386.8	386.8	385.5	385.5	386.8	386.8
32.5°	374.3	373.0	371.8	371.8	370.5	371.8	371.8	371.8
35°	359.3	356.8	356.8	356.8	355.6	356.8	355.6	355.6
37.5°	344.3	340.6	340.6	340.6	340.6	340.6	340.6	340.6
40°	325.6	323.1	323.1	321.9	321.9	321.9	321.9	321.9
42.5°	309.4	306.9	306.9	305.7	305.7	305.7	305.7	305.7
45°	293.2	290.7	290.7	290.7	289.4	289.4	289.4	288.2
47.5°	275.7	274.5	274.5	273.2	273.2	273.2	273.2	273.2
50°	259.5	258.3	258.3	257.0	258.3	257.0	257.0	257.0
52.5°	242.0	242.0	240.8	240.8	240.8	239.5	239.5	239.5
55°	225.8	224.6	224.6	223.3	224.6	223.3	223.3	223.3
57.5°	208.3	208.3	208.3	207.1	207.1	205.9	205.9	205.9
60°	190.9	190.9	190.9	189.6	190.9	189.6	189.6	189.6
62.5°	174.7	174.7	173.4	173.4	173.4	172.2	172.2	172.2
65°	157.2	155.9	155.9	157.2	155.9	155.9	155.9	155.9
67.5°	141.0	141.0	139.7	139.7	139.7	138.5	138.5	138.5
70°	123.5	123.5	122.3	122.3	122.3	121.0	122.3	121.0
72.5°	106.0	106.0	104.8	106.0	104.8	103.6	104.8	104.8
75°	88.6	88.6	88.6	88.6	88.6	87.3	87.3	87.3
77.5°	72.4	72.4	71.1	71.1	71.1	71.1	71.1	69.9
80°	54.9	54.9	53.6	53.6	53.6	53.6	53.6	52.4
82.5°	38.7	37.4	37.4	37.4	37.4	36.2	36.2	36.2
85°	21.2	21.2	21.2	21.2	20.0	21.2	20.0	20.0
87.5°	7.5	7.5	7.5	6.2	6.2	7.5	7.5	6.2
90°	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5
92.5°	6.2	6.2	6.2	5.0	5.0	5.0	5.0	5.0
95°	16.2	16.2	16.2	15.0	15.0	16.2	15.0	15.0
97.5°	26.2	26.2	26.2	26.2	25.0	26.2	25.0	25.0
100°	33.7	34.9	34.9	34.9	34.9	34.9	34.9	36.2
102.5°	39.9	39.9	39.9	39.9	41.2	41.2	41.2	41.2
105°	46.2	46.2	46.2	47.4	47.4	48.7	48.7	48.7
107.5°	54.9	54.9	54.9	54.9	56.1	56.1	56.1	56.1
110°	67.4	67.4	66.1	66.1	64.9	64.9	64.9	64.9



TEST NUMBER: P303122

CATALOG NUMBER: CTW-F-5050-20L930-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	77.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6
115°	83.6	86.1	86.1	87.3	87.3	88.6	88.6	88.6
117.5°	89.8	92.3	92.3	93.6	93.6	94.8	96.1	96.1
120°	97.3	98.6	98.6	99.8	99.8	101.1	101.1	101.1
122.5°	104.8	104.8	104.8	106.0	106.0	106.0	107.3	107.3
125°	114.8	113.5	113.5	112.3	112.3	112.3	112.3	113.5
127.5°	128.5	124.8	123.5	123.5	122.3	121.0	121.0	119.8
130°	143.5	141.0	138.5	137.2	134.7	133.5	132.2	132.2
132.5°	163.4	158.4	155.9	153.5	151.0	148.5	148.5	147.2
135°	184.6	178.4	177.2	173.4	170.9	168.4	165.9	165.9
137.5°	203.4	198.4	197.1	194.6	192.1	188.4	188.4	185.9
140°	223.3	218.3	215.8	213.3	210.8	208.3	208.3	208.3
142.5°	243.3	238.3	235.8	233.3	230.8	228.3	227.1	228.3
145°	263.2	258.3	255.8	253.3	250.8	248.3	247.0	245.8
147.5°	282.0	277.0	274.5	273.2	270.7	268.2	267.0	265.7
150°	300.7	295.7	294.4	291.9	289.4	286.9	285.7	285.7
152.5°	318.1	314.4	311.9	309.4	308.2	305.7	304.4	304.4
155°	336.9	333.1	330.6	329.4	326.9	324.4	324.4	321.9
157.5°	353.1	349.3	346.8	345.6	343.1	341.8	341.8	341.8
160°	368.0	364.3	363.1	360.6	358.1	358.1	358.1	358.1
162.5°	381.8	379.3	378.0	375.5	373.0	373.0	373.0	371.8
165°	394.2	391.7	390.5	388.0	386.8	386.8	386.8	386.8
167.5°	406.7	403.0	401.7	400.5	399.2	399.2	399.2	399.2
170°	416.7	414.2	413.0	411.7	410.5	410.5	410.5	410.5
172.5°	426.7	425.4	424.2	421.7	421.7	421.7	422.9	421.7
175°	435.4	434.2	432.9	431.7	430.4	431.7	431.7	431.7
177.5°	442.9	441.6	441.6	440.4	439.2	437.9	439.2	437.9
180°	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1

(END OF REPORT)