

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: P303124

Luminaire Tested: **CTW-F-5050-20L940-UNV-STD-6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303124  
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-5050-20L940-UNV-STD-6  
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE  
50% UPLIGHT, 50% DOWNLIGHT, 2000 LUMEN PACKAGE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

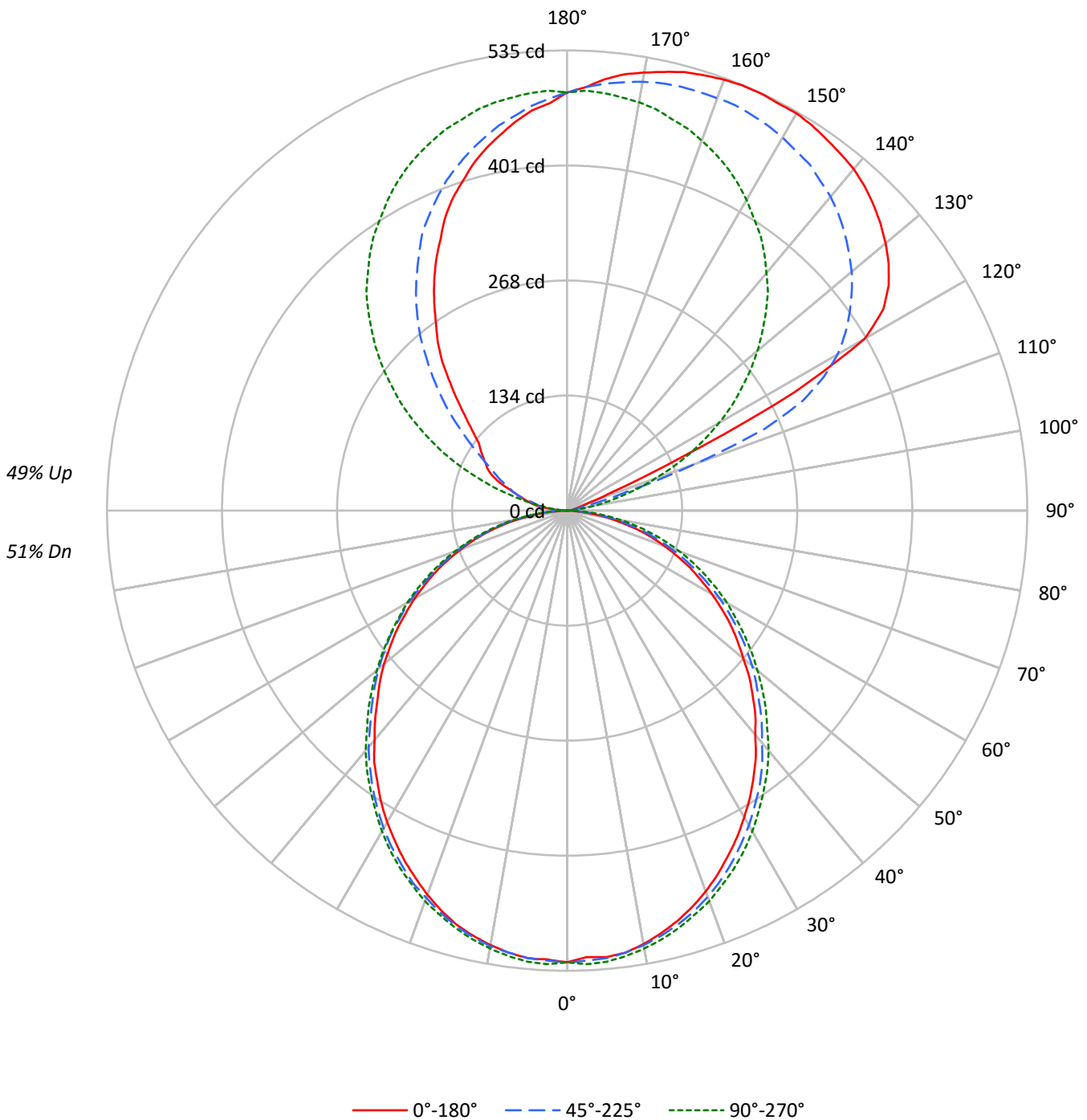
Lumens per Lamp: N/A  
Luminaire Lumens: 2764.2 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.31  
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')  
CIE Type: General Diffuse

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°	7536	7536	7536
5°	7507	7585	7526
10°	7456	7534	7476
15°	7341	7462	7401
20°	7195	7381	7258
25°	7012	7269	7097
30°	6823	7136	6935
35°	6623	6977	6740
40°	6374	6829	6525
45°	6193	6631	6328
50°	5968	6450	6209
55°	5810	6283	6045
60°	5580	6160	5890
65°	5362	6004	5729
70°	5040	5833	5493
75°	4641	5612	5240
80°	3901	5240	4686
85°	2223	4660	3557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.6	1.8
10°-20°	140.3	5.1
20°-30°	207.9	7.5
30°-40°	243.7	8.8
40°-50°	245.2	8.9
50°-60°	218.7	7.9
60°-70°	167.8	6.1
70°-80°	99.8	3.6
80°-90°	27.0	1.0
90°-100°	12.8	0.5
100°-110°	57.4	2.1
110°-120°	163.5	5.9
120°-130°	240.8	8.7
130°-140°	259.7	9.4
140°-150°	247.3	8.9
150°-160°	203.5	7.4
160°-170°	133.1	4.8
170°-180°	46.2	1.7
0°-30°	397.8	14.4
0°-40°	641.5	23.2
0°-60°	1105.4	40.0
0°-90°	1400.0	50.6
90°-120°	233.6	8.5
90°-150°	981.4	35.5
90°-180°	1364.0	49.3
0°-180°	2764.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	525	525	525	525	525	
5°	521	522	526	522	522	49
15°	494	498	502	500	498	139
25°	443	452	459	455	448	204
35°	378	390	398	394	385	236
45°	305	316	327	321	312	236
55°	232	243	251	250	242	207
65°	158	166	177	173	169	156
75°	84	90	101	97	94	88
85°	14	19	28	26	22	18
90°	1	1	0	1	3	1
95°	3	3	9	18	16	3
105°	14	34	65	49	53	16
115°	143	302	158	86	96	175
125°	456	401	247	139	123	404
135°	504	456	327	221	180	389
145°	526	491	392	306	266	330
155°	535	508	440	379	348	247
165°	528	510	471	433	418	149
175°	504	498	487	472	467	48
180°	486	486	486	486	486	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1
2.5°	519.7	519.7	521.1	522.4	523.8	523.8	525.1	525.1	525.1	525.1	523.8
5°	521.1	519.7	521.1	521.1	521.1	521.1	522.4	523.8	523.8	523.8	522.4
7.5°	518.4	517.0	518.4	518.4	517.0	517.0	518.4	519.7	519.7	519.7	518.4
10°	511.6	510.3	511.6	511.6	511.6	511.6	513.0	513.0	514.3	514.3	513.0
12.5°	503.5	503.5	503.5	504.9	503.5	504.9	504.9	506.2	507.6	507.6	506.2
15°	494.1	494.1	495.4	496.8	495.4	496.8	496.8	498.1	498.1	499.5	498.1
17.5°	483.3	483.3	484.6	486.0	486.0	486.0	487.3	487.3	488.7	488.7	488.7
20°	471.1	471.1	471.1	473.8	473.8	473.8	473.8	475.2	477.9	477.9	477.9
22.5°	457.6	457.6	457.6	460.3	460.3	460.3	460.3	461.7	464.4	465.7	465.7
25°	442.8	442.8	442.8	445.5	445.5	445.5	445.5	448.2	450.9	450.9	452.2
27.5°	427.9	427.9	429.3	430.6	430.6	430.6	432.0	433.3	436.0	437.4	437.4
30°	411.7	411.7	411.7	414.4	414.4	415.8	415.8	418.5	419.8	422.5	422.5
32.5°	395.5	395.5	396.9	398.2	398.2	398.2	399.6	402.3	403.6	405.0	406.3
35°	378.0	378.0	379.3	380.7	382.0	382.0	382.0	384.7	386.1	388.8	390.1
37.5°	360.4	360.4	361.8	363.1	364.5	364.5	364.5	367.2	368.5	371.2	372.6
40°	340.2	340.2	340.2	342.9	342.9	344.2	344.2	345.6	348.3	351.0	352.3
42.5°	324.0	322.6	322.6	324.0	325.3	326.7	326.7	328.0	330.7	333.4	334.8
45°	305.1	305.1	305.1	306.4	307.8	307.8	309.1	310.5	311.8	315.9	315.9
47.5°	287.5	286.2	286.2	288.9	288.9	290.2	290.2	291.6	294.3	297.0	298.3
50°	267.3	268.6	268.6	270.0	271.3	271.3	272.7	272.7	275.4	278.1	280.8
52.5°	249.7	249.7	249.7	251.1	252.4	253.8	253.8	255.1	256.5	259.2	261.9
55°	232.2	232.2	232.2	233.5	233.5	234.9	234.9	236.2	237.6	240.3	243.0
57.5°	213.3	213.3	213.3	214.6	216.0	216.0	217.3	217.3	218.7	221.4	224.1
60°	194.4	194.4	194.4	195.7	197.1	197.1	198.4	198.4	199.8	202.5	205.2
62.5°	175.5	176.8	175.5	176.8	178.2	178.2	179.5	179.5	182.2	182.2	184.9
65°	157.9	157.9	157.9	157.9	159.3	159.3	159.3	162.0	162.0	164.7	166.0
67.5°	139.0	139.0	139.0	139.0	140.4	141.7	141.7	143.1	144.4	144.4	147.1
70°	120.1	121.5	121.5	120.1	121.5	122.8	122.8	124.2	125.5	125.5	128.2
72.5°	102.6	102.6	102.6	102.6	102.6	103.9	105.3	105.3	106.6	108.0	109.3
75°	83.7	83.7	85.0	83.7	83.7	85.0	86.4	87.7	87.7	89.1	90.4
77.5°	64.8	66.1	66.1	66.1	67.5	67.5	67.5	68.8	70.2	70.2	71.5
80°	47.2	48.6	48.6	48.6	49.9	48.6	49.9	51.3	51.3	52.6	54.0
82.5°	29.7	29.7	31.0	31.0	31.0	31.0	32.4	33.7	33.7	33.7	36.4
85°	13.5	13.5	14.8	14.8	14.8	14.8	16.2	16.2	17.5	17.5	18.9
87.5°	1.3	1.3	1.3	1.3	2.7	1.3	2.7	2.7	2.7	2.7	4.0
90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
92.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
95°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
97.5°	4.0	4.0	4.0	4.0	4.0	4.0	5.4	5.4	5.4	5.4	6.7
100°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.1	8.1	9.4	10.8
102.5°	9.4	9.4	9.4	9.4	10.8	10.8	10.8	12.1	12.1	14.8	17.5
105°	13.5	13.5	13.5	14.8	14.8	14.8	16.2	17.5	20.2	25.6	33.7
107.5°	18.9	20.2	20.2	20.2	22.9	22.9	25.6	29.7	36.4	52.6	74.2
110°	29.7	31.0	31.0	33.7	39.1	41.8	47.2	62.1	83.7	117.4	157.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	58.0	60.7	63.4	71.5	86.4	97.2	112.0	147.1	186.3	230.8	248.4
115°	143.1	144.4	156.6	172.8	206.5	225.4	243.0	274.0	298.3	303.7	302.4
117.5°	298.3	305.1	311.8	322.6	337.5	344.2	352.3	359.1	353.7	346.9	336.1
120°	399.6	396.9	399.6	400.9	399.6	399.6	398.2	392.8	383.4	373.9	363.1
122.5°	436.0	434.7	433.3	432.0	426.6	425.2	422.5	414.4	405.0	394.2	383.4
125°	456.3	454.9	452.2	449.5	445.5	442.8	440.1	432.0	422.5	411.7	400.9
127.5°	471.1	469.8	467.1	464.4	460.3	457.6	453.6	446.8	437.4	427.9	417.1
130°	483.3	481.9	479.2	477.9	472.5	471.1	467.1	459.0	450.9	442.8	432.0
132.5°	494.1	492.7	490.0	488.7	484.6	481.9	479.2	471.1	461.7	453.6	444.1
135°	503.5	502.2	500.8	499.5	495.4	492.7	488.7	481.9	473.8	465.7	456.3
137.5°	511.6	510.3	508.9	506.2	503.5	500.8	496.8	490.0	484.6	476.5	467.1
140°	518.4	517.0	514.3	513.0	510.3	507.6	504.9	499.5	492.7	486.0	476.5
142.5°	522.4	522.4	519.7	519.7	515.7	513.0	510.3	504.9	500.8	494.1	483.3
145°	526.5	526.5	525.1	523.8	521.1	518.4	515.7	511.6	506.2	500.8	491.4
147.5°	530.5	529.2	529.2	527.8	525.1	522.4	521.1	517.0	511.6	506.2	495.4
150°	533.2	531.9	531.9	530.5	527.8	525.1	523.8	521.1	515.7	510.3	500.8
152.5°	533.2	533.2	534.6	531.9	529.2	527.8	526.5	522.4	519.7	513.0	504.9
155°	534.6	534.6	534.6	533.2	529.2	527.8	526.5	523.8	521.1	515.7	507.6
157.5°	534.6	534.6	534.6	533.2	529.2	527.8	526.5	525.1	522.4	517.0	510.3
160°	533.2	533.2	533.2	533.2	530.5	527.8	526.5	525.1	522.4	517.0	510.3
162.5°	530.5	530.5	530.5	530.5	527.8	526.5	525.1	523.8	522.4	515.7	510.3
165°	527.8	527.8	527.8	526.5	523.8	523.8	522.4	521.1	519.7	514.3	510.3
167.5°	522.4	522.4	522.4	521.1	518.4	518.4	518.4	517.0	515.7	511.6	508.9
170°	517.0	517.0	517.0	515.7	514.3	514.3	514.3	513.0	513.0	508.9	506.2
172.5°	511.6	511.6	511.6	510.3	507.6	507.6	507.6	508.9	507.6	504.9	502.2
175°	503.5	502.2	502.2	502.2	502.2	500.8	502.2	502.2	502.2	499.5	498.1
177.5°	492.7	492.7	492.7	494.1	494.1	494.1	494.1	495.4	495.4	494.1	492.7
180°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1
2.5°	522.4	523.8	522.4	522.4	522.4	522.4	522.4	523.8	526.5	527.8	526.5
5°	521.1	522.4	521.1	521.1	521.1	521.1	521.1	522.4	525.1	526.5	525.1
7.5°	517.0	518.4	517.0	517.0	517.0	517.0	517.0	518.4	522.4	522.4	522.4
10°	511.6	513.0	511.6	511.6	511.6	513.0	513.0	514.3	517.0	517.0	517.0
12.5°	504.9	506.2	504.9	504.9	506.2	506.2	504.9	507.6	510.3	510.3	510.3
15°	496.8	498.1	496.8	496.8	496.8	498.1	498.1	499.5	502.2	502.2	502.2
17.5°	486.0	487.3	487.3	487.3	488.7	488.7	488.7	490.0	492.7	492.7	492.7
20°	476.5	476.5	476.5	476.5	476.5	477.9	477.9	480.6	483.3	483.3	483.3
22.5°	464.4	464.4	465.7	464.4	465.7	467.1	465.7	468.4	471.1	471.1	471.1
25°	450.9	452.2	452.2	452.2	452.2	453.6	453.6	456.3	457.6	459.0	459.0
27.5°	437.4	437.4	438.7	438.7	438.7	440.1	440.1	442.8	445.5	445.5	445.5
30°	422.5	422.5	423.9	425.2	423.9	425.2	425.2	427.9	429.3	430.6	430.6
32.5°	406.3	406.3	409.0	409.0	409.0	410.4	410.4	411.7	414.4	414.4	415.8
35°	390.1	390.1	392.8	392.8	392.8	394.2	394.2	395.5	398.2	398.2	399.6
37.5°	372.6	373.9	375.3	376.6	375.3	376.6	376.6	379.3	380.7	382.0	382.0
40°	355.0	355.0	356.4	357.7	357.7	359.1	360.4	361.8	364.5	364.5	364.5
42.5°	334.8	336.1	337.5	338.8	338.8	340.2	341.5	341.5	342.9	344.2	344.2
45°	317.2	318.6	318.6	321.3	322.6	322.6	322.6	324.0	325.3	326.7	326.7
47.5°	299.7	301.0	302.4	305.1	303.7	303.7	305.1	305.1	306.4	307.8	309.1
50°	280.8	282.1	283.5	284.8	284.8	286.2	286.2	287.5	288.9	288.9	290.2
52.5°	261.9	263.2	265.9	265.9	267.3	267.3	268.6	268.6	270.0	270.0	271.3
55°	243.0	244.3	247.0	248.4	248.4	249.7	249.7	251.1	251.1	251.1	252.4
57.5°	224.1	225.4	228.1	229.5	229.5	230.8	230.8	232.2	232.2	232.2	233.5
60°	205.2	206.5	209.2	210.6	210.6	211.9	211.9	213.3	213.3	214.6	214.6
62.5°	187.6	187.6	190.3	191.7	191.7	191.7	193.0	194.4	194.4	195.7	197.1
65°	167.4	168.7	171.4	172.8	171.4	172.8	174.1	175.5	175.5	176.8	176.8
67.5°	148.5	149.8	152.5	152.5	152.5	153.9	155.2	156.6	156.6	157.9	157.9
70°	129.6	129.6	132.3	133.6	133.6	135.0	136.3	137.7	137.7	139.0	139.0
72.5°	109.3	110.7	113.4	114.7	116.1	116.1	117.4	117.4	120.1	120.1	120.1
75°	91.8	91.8	94.5	95.8	97.2	97.2	98.5	98.5	99.9	101.2	101.2
77.5°	72.9	74.2	75.6	76.9	78.3	78.3	79.6	79.6	81.0	82.3	82.3
80°	55.3	55.3	58.0	58.0	59.4	59.4	60.7	62.1	63.4	63.4	63.4
82.5°	36.4	37.8	40.5	40.5	41.8	41.8	43.2	43.2	44.5	44.5	45.9
85°	20.2	21.6	22.9	22.9	24.3	24.3	25.6	27.0	27.0	28.3	28.3
87.5°	4.0	6.7	6.7	8.1	8.1	9.4	9.4	10.8	12.1	12.1	12.1
90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	1.3	0.0	1.3
92.5°	1.3	1.3	1.3	2.7	2.7	2.7	4.0	4.0	4.0	4.0	5.4
95°	4.0	4.0	5.4	6.7	8.1	9.4	12.1	13.5	12.1	9.4	9.4
97.5°	6.7	9.4	12.1	17.5	20.2	22.9	27.0	25.6	22.9	18.9	17.5
100°	13.5	18.9	25.6	36.4	41.8	45.9	47.2	44.5	37.8	31.0	28.3
102.5°	24.3	36.4	52.6	70.2	74.2	75.6	72.9	66.1	56.7	47.2	40.5
105°	49.9	75.6	98.5	112.0	113.4	110.7	103.9	90.4	78.3	64.8	56.7
107.5°	108.0	141.7	155.2	156.6	152.5	145.8	132.3	117.4	102.6	87.7	75.6
110°	191.7	206.5	203.8	191.7	184.9	178.2	160.6	144.4	126.9	109.3	97.2





TEST NUMBER: P303124

CATALOG NUMBER: CTW-F-5050-20L940-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	255.1	251.1	238.9	222.7	214.6	206.5	189.0	171.4	149.8	133.6	120.1
115°	295.6	283.5	267.3	249.7	241.6	233.5	216.0	195.7	175.5	157.9	143.1
117.5°	324.0	309.1	292.9	275.4	265.9	257.8	238.9	218.7	199.8	180.9	167.4
120°	346.9	330.7	314.5	297.0	290.2	280.8	261.9	241.6	221.4	203.8	190.3
122.5°	368.5	352.3	334.8	319.9	310.5	302.4	282.1	263.2	244.3	226.8	213.3
125°	388.8	372.6	355.0	338.8	330.7	321.3	301.0	283.5	264.6	247.0	234.9
127.5°	403.6	390.1	375.3	359.1	349.6	340.2	319.9	302.4	284.8	268.6	255.1
130°	418.5	405.0	391.5	376.6	368.5	356.4	338.8	319.9	303.7	288.9	276.7
132.5°	430.6	419.8	405.0	391.5	382.0	372.6	355.0	337.5	322.6	307.8	295.6
135°	444.1	432.0	418.5	405.0	396.9	388.8	372.6	355.0	341.5	326.7	314.5
137.5°	454.9	442.8	430.6	417.1	409.0	400.9	387.4	371.2	357.7	345.6	332.1
140°	464.4	452.2	441.4	427.9	419.8	413.1	399.6	386.1	375.3	360.4	349.6
142.5°	472.5	460.3	450.9	437.4	429.3	423.9	411.7	398.2	388.8	376.6	367.2
145°	479.2	468.4	459.0	446.8	440.1	434.7	422.5	411.7	402.3	391.5	382.0
147.5°	487.3	475.2	467.1	454.9	449.5	444.1	433.3	422.5	414.4	403.6	395.5
150°	492.7	483.3	475.2	463.0	457.6	452.2	442.8	434.7	426.6	417.1	409.0
152.5°	496.8	488.7	480.6	469.8	465.7	461.7	452.2	444.1	437.4	429.3	421.2
155°	500.8	492.7	487.3	476.5	472.5	468.4	460.3	453.6	446.8	440.1	432.0
157.5°	503.5	496.8	491.4	481.9	479.2	475.2	468.4	461.7	456.3	449.5	442.8
160°	504.9	499.5	494.1	486.0	483.3	480.6	473.8	468.4	464.4	457.6	452.2
162.5°	504.9	500.8	495.4	488.7	486.0	483.3	479.2	473.8	471.1	465.7	460.3
165°	504.9	502.2	496.8	491.4	488.7	487.3	483.3	479.2	476.5	471.1	467.1
167.5°	503.5	500.8	496.8	492.7	491.4	488.7	486.0	481.9	480.6	477.9	472.5
170°	502.2	500.8	496.8	494.1	492.7	491.4	488.7	486.0	484.6	481.9	477.9
172.5°	499.5	499.5	496.8	494.1	492.7	491.4	488.7	487.3	487.3	484.6	481.9
175°	496.8	495.4	494.1	491.4	490.0	490.0	488.7	487.3	488.7	487.3	486.0
177.5°	490.0	491.4	488.7	488.7	487.3	487.3	487.3	487.3	488.7	488.7	487.3
180°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0



TEST NUMBER: P303124

CATALOG NUMBER: CTW-F-5050-20L940-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1
2.5°	526.5	525.1	523.8	523.8	523.8	521.1	521.1	522.4	523.8	526.5	523.8
5°	525.1	523.8	522.4	522.4	522.4	519.7	519.7	521.1	522.4	525.1	522.4
7.5°	521.1	521.1	518.4	518.4	518.4	515.7	515.7	517.0	518.4	521.1	518.4
10°	517.0	515.7	513.0	513.0	513.0	511.6	510.3	511.6	514.3	515.7	513.0
12.5°	510.3	508.9	507.6	506.2	506.2	503.5	503.5	504.9	507.6	508.9	507.6
15°	502.2	500.8	499.5	498.1	498.1	496.8	495.4	496.8	499.5	500.8	498.1
17.5°	492.7	491.4	490.0	488.7	488.7	487.3	486.0	487.3	490.0	490.0	488.7
20°	481.9	480.6	479.2	479.2	479.2	476.5	476.5	476.5	479.2	479.2	476.5
22.5°	471.1	469.8	467.1	467.1	467.1	465.7	464.4	465.7	468.4	465.7	464.4
25°	459.0	456.3	454.9	454.9	453.6	450.9	452.2	452.2	454.9	453.6	450.9
27.5°	445.5	444.1	442.8	441.4	440.1	438.7	438.7	438.7	441.4	438.7	437.4
30°	430.6	429.3	427.9	426.6	426.6	423.9	423.9	425.2	426.6	423.9	422.5
32.5°	414.4	413.1	411.7	411.7	410.4	409.0	409.0	409.0	410.4	407.7	406.3
35°	399.6	396.9	395.5	395.5	394.2	392.8	392.8	394.2	394.2	391.5	390.1
37.5°	382.0	380.7	379.3	378.0	378.0	376.6	376.6	376.6	376.6	373.9	372.6
40°	365.8	363.1	361.8	360.4	360.4	360.4	360.4	360.4	359.1	356.4	353.7
42.5°	344.2	342.9	341.5	341.5	340.2	340.2	340.2	340.2	338.8	337.5	336.1
45°	326.7	325.3	324.0	322.6	324.0	324.0	322.6	322.6	321.3	319.9	318.6
47.5°	309.1	307.8	306.4	305.1	306.4	306.4	305.1	305.1	303.7	303.7	301.0
50°	290.2	288.9	287.5	287.5	288.9	287.5	287.5	286.2	286.2	284.8	282.1
52.5°	272.7	271.3	268.6	268.6	270.0	270.0	268.6	267.3	267.3	267.3	264.6
55°	253.8	252.4	251.1	251.1	252.4	251.1	249.7	248.4	249.7	248.4	245.7
57.5°	234.9	233.5	232.2	232.2	233.5	232.2	230.8	230.8	229.5	229.5	228.1
60°	216.0	214.6	213.3	214.6	214.6	213.3	211.9	211.9	211.9	209.2	209.2
62.5°	197.1	194.4	194.4	194.4	195.7	194.4	193.0	193.0	191.7	190.3	190.3
65°	176.8	175.5	176.8	175.5	175.5	175.5	174.1	174.1	172.8	171.4	171.4
67.5°	157.9	156.6	157.9	156.6	156.6	156.6	156.6	155.2	153.9	153.9	152.5
70°	139.0	137.7	139.0	137.7	137.7	137.7	137.7	136.3	135.0	133.6	133.6
72.5°	120.1	118.8	118.8	118.8	118.8	118.8	117.4	117.4	116.1	116.1	116.1
75°	101.2	99.9	99.9	99.9	99.9	98.5	98.5	98.5	97.2	97.2	97.2
77.5°	82.3	81.0	82.3	82.3	81.0	81.0	81.0	81.0	79.6	78.3	78.3
80°	63.4	63.4	63.4	63.4	63.4	63.4	62.1	62.1	62.1	60.7	60.7
82.5°	45.9	45.9	45.9	45.9	44.5	44.5	44.5	44.5	43.2	41.8	41.8
85°	28.3	28.3	28.3	28.3	27.0	28.3	27.0	25.6	25.6	24.3	22.9
87.5°	13.5	13.5	12.1	10.8	10.8	10.8	9.4	10.8	9.4	8.1	8.1
90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
92.5°	6.7	8.1	9.4	9.4	9.4	8.1	8.1	8.1	8.1	8.1	6.7
95°	10.8	13.5	14.8	16.2	17.5	18.9	18.9	18.9	17.5	17.5	17.5
97.5°	17.5	18.9	20.2	20.2	21.6	22.9	25.6	27.0	28.3	29.7	28.3
100°	27.0	25.6	28.3	28.3	28.3	28.3	29.7	31.0	33.7	35.1	36.4
102.5°	37.8	35.1	35.1	36.4	36.4	37.8	37.8	37.8	39.1	40.5	41.8
105°	51.3	47.2	45.9	44.5	44.5	45.9	48.6	48.6	48.6	48.6	48.6
107.5°	67.5	62.1	56.7	55.3	54.0	55.3	56.7	59.4	60.7	60.7	59.4
110°	86.4	78.3	71.5	68.8	66.1	64.8	66.1	66.1	68.8	71.5	72.9



TEST NUMBER: P303124

CATALOG NUMBER: CTW-F-5050-20L940-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	108.0	95.8	86.4	85.0	81.0	76.9	75.6	75.6	76.9	78.3	81.0
115°	128.2	116.1	105.3	101.2	97.2	90.4	87.7	85.0	86.4	86.4	89.1
117.5°	152.5	137.7	125.5	120.1	114.7	106.6	99.9	97.2	95.8	95.8	95.8
120°	175.5	162.0	145.8	140.4	135.0	125.5	117.4	110.7	106.6	103.9	103.9
122.5°	197.1	183.6	168.7	162.0	155.2	145.8	136.3	126.9	121.5	116.1	113.4
125°	220.0	206.5	190.3	184.9	176.8	166.0	156.6	147.1	139.0	132.3	126.9
127.5°	241.6	228.1	211.9	205.2	199.8	189.0	176.8	167.4	157.9	151.2	143.1
130°	261.9	248.4	233.5	226.8	221.4	210.6	198.4	189.0	179.5	171.4	162.0
132.5°	282.1	268.6	255.1	248.4	241.6	232.2	220.0	210.6	199.8	191.7	184.9
135°	301.0	287.5	275.4	268.6	263.2	252.4	241.6	232.2	221.4	213.3	206.5
137.5°	319.9	306.4	294.3	287.5	282.1	272.7	263.2	253.8	243.0	234.9	226.8
140°	336.1	324.0	311.8	306.4	301.0	291.6	283.5	275.4	265.9	256.5	248.4
142.5°	353.7	341.5	330.7	324.0	318.6	309.1	301.0	294.3	286.2	276.7	270.0
145°	371.2	357.7	348.3	340.2	336.1	326.7	318.6	313.2	306.4	298.3	291.6
147.5°	384.7	373.9	365.8	360.4	353.7	344.2	336.1	330.7	325.3	317.2	311.8
150°	398.2	388.8	379.3	376.6	371.2	363.1	356.4	349.6	344.2	336.1	330.7
152.5°	413.1	402.3	395.5	390.1	386.1	378.0	371.2	367.2	364.5	355.0	351.0
155°	425.2	415.8	407.7	403.6	400.9	392.8	386.1	383.4	379.3	373.9	368.5
157.5°	436.0	427.9	419.8	415.8	414.4	406.3	400.9	396.9	394.2	390.1	384.7
160°	445.5	438.7	430.6	427.9	425.2	418.5	413.1	410.4	409.0	405.0	400.9
162.5°	454.9	448.2	441.4	438.7	436.0	430.6	425.2	422.5	421.2	418.5	414.4
165°	461.7	456.3	450.9	448.2	446.8	440.1	436.0	434.7	433.3	432.0	427.9
167.5°	469.8	464.4	459.0	457.6	454.9	450.9	446.8	445.5	444.1	444.1	440.1
170°	475.2	471.1	467.1	465.7	464.4	459.0	456.3	454.9	454.9	454.9	450.9
172.5°	480.6	477.9	472.5	472.5	471.1	467.1	464.4	464.4	463.0	464.4	460.3
175°	484.6	481.9	477.9	477.9	476.5	473.8	471.1	471.1	472.5	473.8	469.8
177.5°	487.3	484.6	481.9	481.9	480.6	479.2	476.5	477.9	479.2	480.6	477.9
180°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0



TEST NUMBER: P303124

CATALOG NUMBER: CTW-F-5050-20L940-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1
2.5°	526.5	525.1	523.8	523.8	522.4	522.4	522.4	522.4
5°	523.8	522.4	522.4	521.1	521.1	521.1	522.4	522.4
7.5°	521.1	518.4	518.4	517.0	517.0	517.0	518.4	518.4
10°	514.3	514.3	513.0	511.6	511.6	511.6	511.6	513.0
12.5°	507.6	506.2	506.2	503.5	503.5	504.9	504.9	506.2
15°	499.5	498.1	496.8	496.8	496.8	496.8	496.8	498.1
17.5°	490.0	488.7	487.3	486.0	486.0	487.3	487.3	487.3
20°	477.9	475.2	475.2	473.8	473.8	473.8	475.2	475.2
22.5°	464.4	461.7	461.7	460.3	460.3	461.7	461.7	461.7
25°	450.9	449.5	448.2	446.8	446.8	446.8	448.2	448.2
27.5°	437.4	434.7	434.7	433.3	433.3	433.3	433.3	433.3
30°	422.5	419.8	418.5	418.5	417.1	417.1	418.5	418.5
32.5°	405.0	403.6	402.3	402.3	400.9	402.3	402.3	402.3
35°	388.8	386.1	386.1	386.1	384.7	386.1	384.7	384.7
37.5°	372.6	368.5	368.5	368.5	368.5	368.5	368.5	368.5
40°	352.3	349.6	349.6	348.3	348.3	348.3	348.3	348.3
42.5°	334.8	332.1	332.1	330.7	330.7	330.7	330.7	330.7
45°	317.2	314.5	314.5	314.5	313.2	313.2	313.2	311.8
47.5°	298.3	297.0	297.0	295.6	295.6	295.6	295.6	295.6
50°	280.8	279.4	279.4	278.1	279.4	278.1	278.1	278.1
52.5°	261.9	261.9	260.5	260.5	260.5	259.2	259.2	259.2
55°	244.3	243.0	243.0	241.6	243.0	241.6	241.6	241.6
57.5°	225.4	225.4	225.4	224.1	224.1	222.7	222.7	222.7
60°	206.5	206.5	206.5	205.2	206.5	205.2	205.2	205.2
62.5°	189.0	189.0	187.6	187.6	187.6	186.3	186.3	186.3
65°	170.1	168.7	168.7	170.1	168.7	168.7	168.7	168.7
67.5°	152.5	152.5	151.2	151.2	151.2	149.8	149.8	149.8
70°	133.6	133.6	132.3	132.3	132.3	130.9	132.3	130.9
72.5°	114.7	114.7	113.4	114.7	113.4	112.0	113.4	113.4
75°	95.8	95.8	95.8	95.8	95.8	94.5	94.5	94.5
77.5°	78.3	78.3	76.9	76.9	76.9	76.9	76.9	75.6
80°	59.4	59.4	58.0	58.0	58.0	58.0	58.0	56.7
82.5°	41.8	40.5	40.5	40.5	40.5	39.1	39.1	39.1
85°	22.9	22.9	22.9	22.9	21.6	22.9	21.6	21.6
87.5°	8.1	8.1	8.1	6.7	6.7	8.1	8.1	6.7
90°	1.3	1.3	2.7	2.7	2.7	2.7	2.7	2.7
92.5°	6.7	6.7	6.7	5.4	5.4	5.4	5.4	5.4
95°	17.5	17.5	17.5	16.2	16.2	17.5	16.2	16.2
97.5°	28.3	28.3	28.3	28.3	27.0	28.3	27.0	27.0
100°	36.4	37.8	37.8	37.8	37.8	37.8	37.8	39.1
102.5°	43.2	43.2	43.2	43.2	44.5	44.5	44.5	44.5
105°	49.9	49.9	49.9	51.3	51.3	52.6	52.6	52.6
107.5°	59.4	59.4	59.4	59.4	60.7	60.7	60.7	60.7
110°	72.9	72.9	71.5	71.5	70.2	70.2	70.2	70.2



TEST NUMBER: P303124

CATALOG NUMBER: CTW-F-5050-20L940-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	83.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0
115°	90.4	93.1	93.1	94.5	94.5	95.8	95.8	95.8
117.5°	97.2	99.9	99.9	101.2	101.2	102.6	103.9	103.9
120°	105.3	106.6	106.6	108.0	108.0	109.3	109.3	109.3
122.5°	113.4	113.4	113.4	114.7	114.7	114.7	116.1	116.1
125°	124.2	122.8	122.8	121.5	121.5	121.5	121.5	122.8
127.5°	139.0	135.0	133.6	133.6	132.3	130.9	130.9	129.6
130°	155.2	152.5	149.8	148.5	145.8	144.4	143.1	143.1
132.5°	176.8	171.4	168.7	166.0	163.3	160.6	160.6	159.3
135°	199.8	193.0	191.7	187.6	184.9	182.2	179.5	179.5
137.5°	220.0	214.6	213.3	210.6	207.9	203.8	203.8	201.1
140°	241.6	236.2	233.5	230.8	228.1	225.4	225.4	225.4
142.5°	263.2	257.8	255.1	252.4	249.7	247.0	245.7	247.0
145°	284.8	279.4	276.7	274.0	271.3	268.6	267.3	265.9
147.5°	305.1	299.7	297.0	295.6	292.9	290.2	288.9	287.5
150°	325.3	319.9	318.6	315.9	313.2	310.5	309.1	309.1
152.5°	344.2	340.2	337.5	334.8	333.4	330.7	329.4	329.4
155°	364.5	360.4	357.7	356.4	353.7	351.0	351.0	348.3
157.5°	382.0	378.0	375.3	373.9	371.2	369.9	369.9	369.9
160°	398.2	394.2	392.8	390.1	387.4	387.4	387.4	387.4
162.5°	413.1	410.4	409.0	406.3	403.6	403.6	403.6	402.3
165°	426.6	423.9	422.5	419.8	418.5	418.5	418.5	418.5
167.5°	440.1	436.0	434.7	433.3	432.0	432.0	432.0	432.0
170°	450.9	448.2	446.8	445.5	444.1	444.1	444.1	444.1
172.5°	461.7	460.3	459.0	456.3	456.3	456.3	457.6	456.3
175°	471.1	469.8	468.4	467.1	465.7	467.1	467.1	467.1
177.5°	479.2	477.9	477.9	476.5	475.2	473.8	475.2	473.8
180°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0

(END OF REPORT)