

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: P303134

Luminaire Tested: **CTW-F-5050-30L935-UNV-STD-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303134  
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-5050-30L935-UNV-STD-4  
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE  
50% UPLIGHT, 50% DOWNLIGHT, 3000 LUMEN PACKAGE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

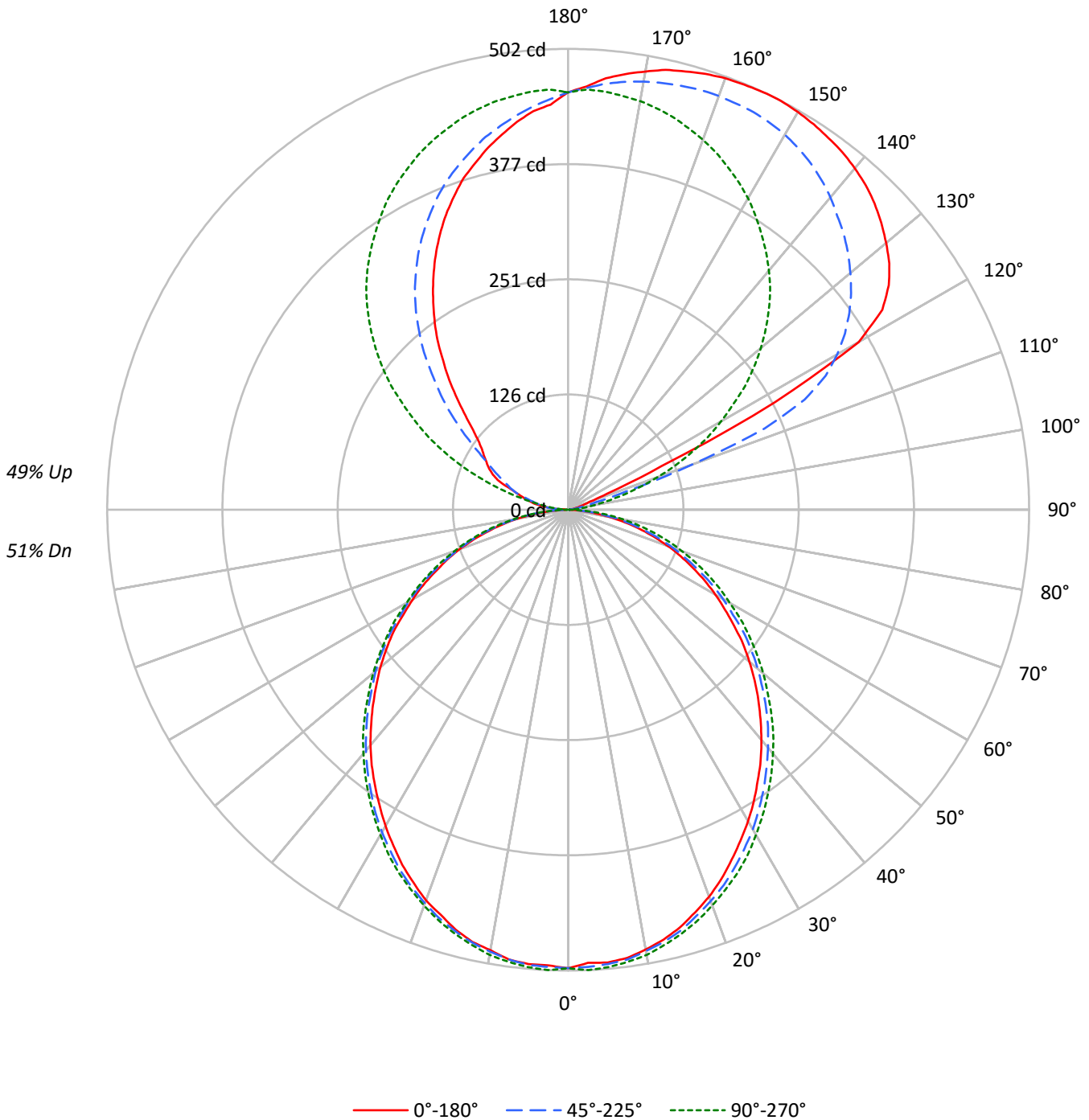
Lumens per Lamp: N/A  
Luminaire Lumens: 2610.9 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32  
Luminous Opening: Rectangular (W 4' x L: 0.12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 24.3  
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					
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	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					51			
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43					43			
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40	36					36			
3	81	72	64	58	75	66	60	55	57	52	48	47	44	41	39	36	34	30					30			
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	35	32	29	26					26			
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26	22					22			
6	63	51	42	36	58	47	40	34	40	35	30	34	30	26	28	25	22	20					20			
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17					17			
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	15					15			
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14					14			
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	15	13					13			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	10751	10751	10751
5°	10699	10809	10736
10°	10635	10766	10652
15°	10497	10651	10553
20°	10277	10513	10376
25°	10000	10368	10145
30°	9739	10167	9889
35°	9458	9955	9640
40°	9195	9752	9412
45°	8911	9514	9149
50°	8621	9284	8939
55°	8272	9049	8726
60°	7970	8749	8413
65°	7631	8553	8115
70°	7264	8290	7912
75°	6662	8018	7444
80°	5653	7476	6831
85°	3409	6595	5113



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.2	1.8
10°-20°	133.5	5.1
20°-30°	197.7	7.6
30°-40°	232.1	8.9
40°-50°	235.4	9.0
50°-60°	209.3	8.0
60°-70°	159.6	6.1
70°-80°	94.8	3.6
80°-90°	25.6	1.0
90°-100°	12.5	0.5
100°-110°	53.2	2.0
110°-120°	150.7	5.8
120°-130°	225.5	8.6
130°-140°	243.8	9.3
140°-150°	232.1	8.9
150°-160°	190.4	7.3
160°-170°	124.4	4.8
170°-180°	43.1	1.7
0°-30°	378.3	14.5
0°-40°	610.4	23.4
0°-60°	1055.1	40.4
0°-90°	1335.1	51.1
90°-120°	216.4	8.3
90°-150°	917.9	35.2
90°-180°	1276.0	48.9
0°-180°	2610.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	499	499	499	499	499	
5°	495	497	500	498	497	47
15°	471	474	478	475	474	133
25°	421	430	436	433	427	194
35°	360	371	379	374	367	225
45°	293	305	312	308	300	226
55°	220	233	241	238	232	198
65°	150	157	168	164	159	149
75°	80	85	96	93	90	85
85°	14	18	27	24	21	18
90°	1	1	1	2	3	1
95°	3	3	10	19	17	3
105°	12	31	61	46	50	14
115°	112	284	149	81	90	148
125°	426	374	235	132	114	376
135°	472	424	309	210	170	364
145°	494	461	367	291	254	310
155°	502	478	412	356	331	232
165°	494	478	443	406	391	140
175°	472	466	457	441	436	45
180°	455	455	455	455	455	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4
2.5°	494.2	494.2	496.8	497.7	497.7	498.5	499.4	500.2	500.2	500.2	498.5
5°	495.1	495.1	495.1	495.1	495.1	495.9	496.8	497.7	498.5	497.7	496.8
7.5°	492.5	492.5	492.5	492.5	491.6	492.5	492.5	494.2	494.2	494.2	494.2
10°	486.5	486.5	486.5	487.3	486.5	487.3	488.2	489.0	489.9	489.9	488.2
12.5°	479.6	479.6	479.6	480.4	479.6	479.6	481.3	481.3	483.0	482.2	482.2
15°	471.0	471.0	471.0	472.7	471.8	471.8	472.7	473.5	474.4	474.4	474.4
17.5°	459.8	459.8	461.5	462.4	461.5	462.4	462.4	463.2	464.9	464.9	464.1
20°	448.6	448.6	448.6	450.3	449.4	450.3	450.3	452.0	453.7	453.7	453.7
22.5°	435.7	434.8	435.7	436.5	436.5	437.4	437.4	439.1	440.8	441.7	442.6
25°	421.0	421.0	421.9	423.6	423.6	423.6	424.5	426.2	427.9	428.8	429.6
27.5°	406.4	406.4	407.3	409.0	409.8	409.8	409.8	412.4	415.0	415.9	415.9
30°	391.8	391.8	391.8	393.5	394.3	394.3	394.3	396.9	399.5	402.1	402.1
32.5°	376.3	376.3	376.3	378.8	379.7	379.7	379.7	381.4	384.0	385.7	386.6
35°	359.9	359.9	360.8	362.5	363.3	363.3	363.3	365.1	366.8	370.2	371.1
37.5°	344.4	343.5	344.4	346.1	347.0	347.0	346.1	348.7	351.3	353.9	354.7
40°	327.2	326.3	328.0	328.9	329.8	329.8	329.8	332.3	334.9	337.5	338.4
42.5°	310.0	310.0	310.8	311.7	312.5	312.5	313.4	315.1	316.8	320.3	322.0
45°	292.7	291.9	293.6	294.5	296.2	295.3	296.2	297.0	299.6	302.2	304.8
47.5°	275.5	275.5	275.5	276.4	278.1	279.0	279.0	279.8	282.4	285.0	286.7
50°	257.4	257.4	258.3	259.2	260.9	260.9	261.7	262.6	263.5	267.8	269.5
52.5°	240.2	240.2	240.2	241.1	243.7	243.7	243.7	245.4	247.1	248.8	251.4
55°	220.4	221.3	221.3	221.3	223.9	223.9	224.7	225.6	227.3	230.7	233.3
57.5°	202.3	203.2	203.2	204.1	204.9	205.8	206.6	206.6	208.4	210.1	212.7
60°	185.1	186.0	186.0	186.0	187.7	187.7	188.6	189.4	190.3	192.0	194.6
62.5°	167.9	167.9	167.9	167.9	169.6	169.6	170.5	172.2	172.2	173.9	176.5
65°	149.8	150.7	149.8	150.7	151.5	151.5	152.4	154.1	154.1	155.8	156.7
67.5°	132.6	132.6	132.6	133.5	133.5	134.3	134.3	136.0	136.9	137.8	138.6
70°	115.4	115.4	114.5	115.4	116.2	117.1	117.1	118.0	118.8	119.7	121.4
72.5°	97.3	97.3	97.3	98.2	98.2	99.0	99.0	100.7	101.6	102.5	103.3
75°	80.1	80.1	80.1	80.9	80.9	80.9	81.8	82.7	83.5	84.4	85.2
77.5°	62.9	62.9	62.9	63.7	62.9	63.7	63.7	65.4	66.3	67.2	68.0
80°	45.6	45.6	45.6	46.5	47.4	47.4	47.4	48.2	49.1	49.9	50.8
82.5°	29.3	28.4	28.4	29.3	30.1	30.1	31.0	31.0	31.9	32.7	34.4
85°	13.8	13.8	12.9	13.8	14.6	14.6	15.5	15.5	16.4	17.2	18.1
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	2.6	3.4
90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
92.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
95°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
97.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.2	5.2
100°	6.0	6.0	6.0	6.0	6.0	6.9	6.9	6.9	7.7	8.6	9.5
102.5°	8.6	8.6	8.6	8.6	9.5	9.5	9.5	10.3	11.2	13.8	16.4
105°	12.1	12.1	12.9	12.9	13.8	13.8	14.6	15.5	18.1	22.4	31.0
107.5°	17.2	17.2	18.1	18.1	19.8	20.7	22.4	25.0	31.9	44.8	66.3
110°	25.0	25.8	27.6	28.4	32.7	35.3	38.7	49.9	71.5	105.0	143.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	45.6	46.5	53.4	57.7	70.6	80.1	89.5	121.4	165.3	205.8	231.6
115°	111.9	117.1	126.6	143.8	171.3	191.1	209.2	244.5	272.9	283.3	284.1
117.5°	254.0	258.3	271.2	285.0	303.1	315.1	320.3	328.0	328.9	322.9	316.0
120°	365.1	365.1	365.1	368.5	368.5	370.2	367.6	364.2	356.5	347.0	338.4
122.5°	405.5	403.8	402.9	400.4	396.9	394.3	391.8	384.9	378.0	367.6	357.3
125°	426.2	423.6	422.8	419.3	414.1	412.4	409.0	402.1	394.3	384.0	373.7
127.5°	440.8	438.2	436.5	433.9	428.8	426.2	422.8	415.9	408.1	398.6	388.3
130°	452.0	449.4	447.7	446.0	440.0	438.2	434.8	427.9	420.2	411.6	401.2
132.5°	462.4	460.6	458.1	455.5	452.0	449.4	446.0	440.0	432.2	423.6	413.3
135°	471.8	469.2	467.5	465.8	460.6	458.9	455.5	449.4	442.6	433.1	424.5
137.5°	479.6	477.0	475.3	472.7	469.2	465.8	463.2	458.1	451.2	443.4	433.9
140°	485.6	483.0	481.3	478.7	475.3	472.7	470.1	465.8	459.8	452.0	444.3
142.5°	490.8	487.3	486.5	483.9	480.4	478.7	476.1	471.8	466.7	458.9	452.9
145°	494.2	491.6	490.8	488.2	485.6	483.0	482.2	478.7	472.7	464.9	460.6
147.5°	497.7	495.1	494.2	492.5	489.0	487.3	486.5	482.2	477.0	470.1	466.7
150°	500.2	497.7	496.8	495.1	491.6	490.8	489.9	486.5	481.3	474.4	471.8
152.5°	502.0	498.5	497.7	495.9	493.4	492.5	491.6	488.2	483.9	477.9	475.3
155°	502.0	499.4	498.5	496.8	494.2	493.4	491.6	489.0	484.7	480.4	477.9
157.5°	501.1	499.4	498.5	496.8	493.4	493.4	491.6	489.0	485.6	482.2	478.7
160°	500.2	497.7	497.7	495.9	493.4	493.4	491.6	489.9	485.6	483.0	479.6
162.5°	497.7	495.9	495.9	494.2	492.5	492.5	490.8	489.0	484.7	483.9	479.6
165°	494.2	492.5	492.5	491.6	489.0	489.0	488.2	485.6	483.0	482.2	477.9
167.5°	490.8	488.2	488.2	487.3	484.7	484.7	484.7	483.0	480.4	481.3	476.1
170°	484.7	482.2	482.2	481.3	480.4	480.4	480.4	478.7	476.1	477.9	473.5
172.5°	478.7	477.9	477.0	476.1	475.3	475.3	475.3	474.4	472.7	474.4	470.1
175°	471.8	470.1	470.1	469.2	469.2	469.2	469.2	469.2	467.5	470.1	465.8
177.5°	461.5	459.8	460.6	461.5	461.5	462.4	462.4	462.4	461.5	464.1	459.8
180°	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4
2.5°	496.8	498.5	497.7	497.7	497.7	497.7	497.7	498.5	501.1	502.0	502.0
5°	495.1	496.8	495.9	495.1	495.1	495.1	495.1	496.8	499.4	500.2	499.4
7.5°	491.6	493.4	492.5	491.6	492.5	492.5	492.5	494.2	496.8	496.8	496.8
10°	486.5	488.2	487.3	487.3	487.3	487.3	488.2	489.0	491.6	492.5	491.6
12.5°	480.4	481.3	480.4	481.3	481.3	481.3	481.3	482.2	484.7	485.6	485.6
15°	472.7	473.5	472.7	473.5	472.7	473.5	473.5	475.3	477.0	477.9	478.7
17.5°	463.2	463.2	463.2	464.1	464.1	464.1	464.1	465.8	468.4	469.2	469.2
20°	452.0	452.9	453.7	453.7	453.7	454.6	454.6	455.5	458.9	458.9	459.8
22.5°	441.7	441.7	442.6	442.6	443.4	443.4	443.4	444.3	447.7	447.7	447.7
25°	428.8	428.8	430.5	431.4	431.4	431.4	432.2	433.1	436.5	436.5	436.5
27.5°	415.0	415.0	417.6	416.7	417.6	418.4	419.3	421.0	422.8	423.6	423.6
30°	401.2	401.2	402.9	402.9	403.8	403.8	404.7	406.4	409.0	409.0	409.8
32.5°	387.4	387.4	388.3	389.2	390.0	389.2	390.0	391.8	394.3	394.3	395.2
35°	372.0	371.1	372.8	373.7	373.7	374.5	374.5	376.3	378.8	378.8	379.7
37.5°	356.5	355.6	357.3	358.2	359.0	359.0	359.0	360.8	362.5	363.3	364.2
40°	340.1	339.2	341.8	342.7	342.7	342.7	342.7	344.4	346.1	347.0	347.8
42.5°	322.0	322.9	324.6	326.3	326.3	326.3	327.2	327.2	329.8	330.6	331.5
45°	305.7	306.5	307.4	310.0	309.1	308.2	310.0	310.0	312.5	312.5	313.4
47.5°	288.4	289.3	289.3	291.9	291.9	291.0	292.7	292.7	294.5	294.5	296.2
50°	271.2	272.1	272.1	274.7	274.7	273.8	275.5	275.5	277.2	277.2	279.0
52.5°	252.3	254.0	254.0	256.6	257.4	256.6	257.4	257.4	259.2	259.2	260.9
55°	234.2	235.9	236.8	237.6	239.4	238.5	239.4	240.2	241.9	241.1	242.8
57.5°	215.2	215.2	217.0	217.8	218.7	218.7	221.3	220.4	220.4	223.0	223.9
60°	196.3	197.2	198.9	199.8	200.6	200.6	201.5	202.3	203.2	203.2	204.9
62.5°	178.2	179.9	180.8	181.7	182.5	181.7	184.3	185.1	186.0	186.0	186.0
65°	160.1	161.0	162.7	163.6	163.6	163.6	166.2	167.0	167.0	167.9	167.9
67.5°	141.2	142.9	144.6	144.6	146.4	145.5	148.1	149.0	149.0	149.8	150.7
70°	123.1	124.0	125.7	126.6	128.3	127.4	129.1	130.0	130.9	131.7	132.6
72.5°	105.0	105.9	107.6	108.5	109.3	110.2	111.1	112.8	113.7	114.5	114.5
75°	87.0	87.8	89.5	90.4	91.3	92.1	93.0	94.7	94.7	96.4	96.4
77.5°	69.7	70.6	71.5	72.3	74.0	74.9	75.8	76.6	77.5	78.4	78.4
80°	52.5	52.5	54.2	55.1	56.8	56.8	57.7	58.5	60.3	60.3	60.3
82.5°	35.3	36.2	37.0	37.9	39.6	39.6	40.5	42.2	43.0	43.0	43.0
85°	18.9	19.8	21.5	22.4	23.2	23.2	25.0	25.8	26.7	26.7	26.7
87.5°	4.3	5.2	6.0	6.9	8.6	9.5	9.5	10.3	11.2	11.2	11.2
90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
92.5°	1.7	1.7	1.7	1.7	1.7	2.6	3.4	4.3	4.3	3.4	4.3
95°	3.4	3.4	4.3	6.0	7.7	8.6	12.1	12.9	11.2	9.5	9.5
97.5°	6.0	7.7	10.3	15.5	18.9	21.5	25.8	24.1	20.7	18.1	16.4
100°	12.1	16.4	22.4	32.7	37.9	42.2	43.9	39.6	34.4	29.3	25.8
102.5°	21.5	32.7	46.5	62.9	68.0	69.7	68.9	60.3	51.7	43.0	37.9
105°	44.8	65.4	89.5	101.6	104.2	102.5	93.8	84.4	72.3	61.1	52.5
107.5°	96.4	125.7	141.2	142.9	140.3	135.2	122.3	109.3	94.7	81.8	69.7
110°	171.3	186.8	186.8	179.1	172.2	166.2	149.8	135.2	118.8	103.3	90.4





TEST NUMBER: P303134

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	235.9	233.3	222.1	208.4	200.6	192.9	175.6	160.1	142.1	126.6	111.1
115°	276.4	264.3	250.6	235.1	226.4	217.0	201.5	183.4	164.5	149.0	132.6
117.5°	303.1	289.3	273.8	259.2	250.6	243.7	225.6	204.9	187.7	171.3	155.0
120°	324.6	310.0	295.3	280.7	272.9	265.2	246.2	228.2	208.4	192.0	176.5
122.5°	342.7	328.9	314.3	300.5	292.7	284.1	266.9	248.8	232.5	212.7	198.0
125°	360.8	347.8	332.3	319.4	310.8	301.3	285.9	267.8	251.4	235.1	219.6
127.5°	376.3	363.3	350.4	335.8	327.2	318.6	303.1	285.9	270.4	254.9	240.2
130°	390.0	378.8	365.1	350.4	341.8	334.1	318.6	303.1	288.4	273.8	259.2
132.5°	404.7	391.8	378.8	364.2	356.5	348.7	334.9	320.3	305.7	291.9	278.1
135°	416.7	403.8	390.0	375.4	369.4	362.5	349.6	335.8	322.0	309.1	296.2
137.5°	427.9	413.3	400.4	386.6	381.4	375.4	362.5	349.6	337.5	325.5	312.5
140°	436.5	421.9	409.8	397.8	392.6	386.6	373.7	363.3	352.1	340.1	328.0
142.5°	443.4	429.6	417.6	407.3	402.1	397.8	385.7	375.4	365.1	353.9	342.7
145°	449.4	437.4	426.2	415.9	412.4	407.3	396.1	387.4	378.0	366.8	356.5
147.5°	454.6	444.3	433.9	424.5	420.2	415.9	405.5	397.8	388.3	379.7	369.4
150°	459.8	450.3	440.8	432.2	428.8	424.5	414.1	407.3	400.4	391.8	382.3
152.5°	463.2	454.6	446.0	439.1	435.7	432.2	422.8	417.6	409.8	402.1	393.5
155°	466.7	458.9	451.2	445.1	442.6	439.1	431.4	426.2	419.3	411.6	403.8
157.5°	469.2	462.4	455.5	450.3	447.7	445.1	437.4	433.9	427.9	421.0	413.3
160°	470.1	464.1	458.9	454.6	452.0	449.4	443.4	440.0	434.8	428.8	421.9
162.5°	470.1	465.8	460.6	458.1	455.5	452.9	447.7	445.1	440.8	435.7	429.6
165°	470.1	466.7	462.4	459.8	458.1	456.3	452.0	449.4	445.1	442.6	436.5
167.5°	470.1	466.7	463.2	461.5	459.8	458.1	455.5	453.7	450.3	447.7	442.6
170°	468.4	464.9	463.2	462.4	460.6	459.8	457.2	456.3	453.7	452.0	447.7
172.5°	465.8	463.2	462.4	461.5	460.6	459.8	458.1	457.2	455.5	454.6	452.0
175°	462.4	460.6	459.8	459.8	459.8	458.9	457.2	458.1	457.2	457.2	454.6
177.5°	457.2	456.3	456.3	456.3	457.2	456.3	456.3	457.2	457.2	458.1	456.3
180°	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6



TEST NUMBER: P303134

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4
2.5°	501.1	499.4	498.5	498.5	497.7	495.9	495.9	496.8	498.5	502.0	499.4
5°	499.4	498.5	495.9	495.9	495.9	495.1	493.4	495.1	497.7	500.2	496.8
7.5°	495.9	495.1	493.4	493.4	493.4	491.6	490.8	492.5	494.2	495.9	493.4
10°	491.6	489.9	489.0	488.2	488.2	486.5	485.6	487.3	489.0	490.8	489.0
12.5°	485.6	483.9	482.2	482.2	481.3	480.4	479.6	481.3	483.0	484.7	483.0
15°	477.9	476.1	474.4	474.4	474.4	471.8	471.8	472.7	475.3	476.1	473.5
17.5°	469.2	466.7	464.9	465.8	464.9	462.4	463.2	463.2	466.7	466.7	464.9
20°	458.9	456.3	455.5	455.5	454.6	452.9	452.9	453.7	456.3	455.5	453.7
22.5°	447.7	445.1	445.1	444.3	444.3	441.7	441.7	442.6	445.1	443.4	441.7
25°	435.7	433.9	433.1	433.1	431.4	429.6	429.6	430.5	433.1	430.5	429.6
27.5°	421.9	421.0	420.2	420.2	418.4	416.7	417.6	417.6	419.3	417.6	415.9
30°	409.0	407.3	406.4	406.4	404.7	402.1	402.9	402.9	405.5	402.9	402.9
32.5°	395.2	392.6	392.6	391.8	390.0	388.3	389.2	390.0	390.9	387.4	388.3
35°	379.7	377.1	377.1	376.3	374.5	373.7	373.7	374.5	374.5	372.0	372.0
37.5°	364.2	362.5	361.6	360.8	359.0	358.2	359.0	359.9	359.0	356.5	356.5
40°	347.8	346.1	344.4	344.4	343.5	342.7	342.7	344.4	342.7	340.1	340.1
42.5°	331.5	329.8	328.0	328.0	327.2	327.2	327.2	328.0	325.5	324.6	322.9
45°	314.3	312.5	310.8	310.8	310.0	310.0	310.0	310.0	308.2	307.4	306.5
47.5°	297.0	295.3	293.6	293.6	292.7	293.6	293.6	292.7	290.2	290.2	289.3
50°	279.8	278.1	276.4	276.4	276.4	276.4	276.4	275.5	273.8	272.9	272.1
52.5°	261.7	260.0	258.3	259.2	258.3	259.2	258.3	257.4	255.7	254.9	254.0
55°	243.7	241.9	241.1	241.9	241.1	241.1	240.2	239.4	237.6	237.6	235.9
57.5°	224.7	222.1	222.1	223.0	222.1	222.1	220.4	219.6	217.8	217.8	216.1
60°	204.9	204.1	204.1	204.1	204.1	203.2	202.3	202.3	200.6	199.8	198.0
62.5°	186.8	186.8	186.0	186.8	185.1	185.1	184.3	183.4	182.5	181.7	180.8
65°	168.8	167.9	167.9	167.0	167.0	167.0	166.2	165.3	164.5	163.6	162.7
67.5°	149.8	149.8	149.8	149.8	149.0	149.0	148.1	147.2	145.5	146.4	144.6
70°	131.7	131.7	131.7	131.7	130.9	130.9	130.0	129.1	127.4	128.3	127.4
72.5°	113.7	113.7	113.7	113.7	112.8	112.8	111.1	111.1	111.1	110.2	109.3
75°	95.6	95.6	95.6	94.7	94.7	94.7	93.0	93.0	93.0	93.0	91.3
77.5°	77.5	78.4	77.5	77.5	76.6	76.6	76.6	75.8	75.8	74.9	74.0
80°	59.4	60.3	60.3	60.3	59.4	59.4	59.4	58.5	57.7	57.7	56.8
82.5°	43.9	43.0	43.0	43.0	42.2	42.2	42.2	41.3	41.3	40.5	39.6
85°	26.7	26.7	26.7	26.7	25.8	25.8	25.0	24.1	24.1	22.4	22.4
87.5°	12.1	11.2	11.2	11.2	11.2	10.3	9.5	8.6	8.6	7.7	7.7
90°	0.9	0.9	1.7	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
92.5°	6.0	7.7	8.6	9.5	8.6	9.5	9.5	9.5	8.6	8.6	8.6
95°	10.3	12.1	14.6	15.5	16.4	18.1	18.9	18.9	18.9	18.1	18.1
97.5°	16.4	18.1	18.9	19.8	19.8	22.4	24.1	25.8	27.6	27.6	28.4
100°	25.0	24.1	25.8	27.6	27.6	27.6	28.4	30.1	31.9	32.7	34.4
102.5°	35.3	32.7	32.7	33.6	34.4	37.0	36.2	37.0	37.9	38.7	39.6
105°	47.4	44.8	42.2	42.2	42.2	43.9	46.5	48.2	46.5	46.5	47.4
107.5°	62.9	57.7	53.4	52.5	52.5	51.7	53.4	56.0	57.7	58.5	57.7
110°	80.1	72.3	68.0	63.7	62.9	62.0	62.0	62.9	65.4	68.0	69.7



TEST NUMBER: P303134

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	99.9	90.4	82.7	79.2	75.8	72.3	71.5	71.5	72.3	74.9	76.6
115°	120.5	109.3	99.0	94.7	92.1	85.2	81.8	80.1	80.9	81.8	83.5
117.5°	142.1	130.0	118.0	112.8	109.3	101.6	94.7	92.1	90.4	89.5	91.3
120°	163.6	151.5	139.5	132.6	127.4	118.8	111.1	104.2	100.7	99.0	98.2
122.5°	184.3	172.2	160.1	153.3	148.1	136.9	129.1	120.5	114.5	110.2	107.6
125°	204.9	192.9	180.8	173.9	168.8	156.7	147.2	139.5	131.7	124.8	119.7
127.5°	225.6	212.7	200.6	194.6	189.4	176.5	166.2	158.4	150.7	142.9	136.0
130°	246.2	235.1	222.1	214.4	210.1	197.2	186.8	177.4	170.5	162.7	154.1
132.5°	264.3	254.0	241.9	235.9	229.9	217.0	208.4	198.0	190.3	182.5	174.8
135°	283.3	272.1	260.0	254.9	249.7	239.4	229.0	218.7	210.1	202.3	194.6
137.5°	299.6	290.2	278.1	272.9	267.8	258.3	248.8	241.1	232.5	223.9	214.4
140°	316.0	305.7	295.3	290.2	285.0	277.2	267.8	260.9	252.3	245.4	235.9
142.5°	330.6	320.3	311.7	306.5	301.3	293.6	285.0	279.0	272.1	264.3	258.3
145°	345.3	335.8	327.2	322.0	317.7	310.0	301.3	297.0	291.0	283.3	276.4
147.5°	358.2	349.6	341.0	336.7	333.2	325.5	318.6	313.4	308.2	301.3	295.3
150°	371.1	362.5	354.7	351.3	347.0	341.0	334.9	328.9	325.5	318.6	313.4
152.5°	383.1	375.4	367.6	365.1	361.6	354.7	348.7	343.5	341.0	334.9	330.6
155°	395.2	387.4	379.7	378.0	374.5	368.5	362.5	358.2	355.6	349.6	345.3
157.5°	405.5	397.8	391.8	389.2	385.7	380.6	375.4	372.0	370.2	365.1	360.8
160°	415.0	408.1	402.1	399.5	396.9	391.8	388.3	384.0	383.1	378.8	375.4
162.5°	422.8	416.7	411.6	409.8	407.3	402.9	399.5	395.2	394.3	391.8	388.3
165°	430.5	424.5	420.2	418.4	416.7	412.4	409.8	406.4	405.5	403.8	400.4
167.5°	437.4	432.2	427.9	427.1	425.3	421.9	420.2	416.7	415.9	415.0	411.6
170°	442.6	438.2	434.8	433.9	432.2	429.6	427.9	425.3	424.5	425.3	421.9
172.5°	446.9	443.4	440.8	440.0	439.1	437.4	435.7	433.9	433.1	434.8	431.4
175°	451.2	447.7	446.0	445.1	445.1	443.4	442.6	440.8	440.8	442.6	440.0
177.5°	453.7	451.2	449.4	449.4	448.6	447.7	447.7	446.0	447.7	449.4	446.9
180°	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6



TEST NUMBER: P303134

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4
2.5°	501.1	499.4	499.4	498.5	497.7	496.8	496.8	496.8
5°	498.5	497.7	496.8	495.1	495.1	495.9	496.8	496.8
7.5°	494.2	494.2	493.4	492.5	491.6	493.4	493.4	494.2
10°	489.9	489.0	488.2	487.3	486.5	487.3	487.3	487.3
12.5°	483.0	482.2	481.3	479.6	479.6	480.4	480.4	482.2
15°	475.3	474.4	472.7	472.7	471.8	472.7	472.7	473.5
17.5°	465.8	464.1	463.2	462.4	462.4	463.2	463.2	462.4
20°	454.6	452.9	451.2	450.3	450.3	451.2	451.2	452.9
22.5°	441.7	440.0	439.1	438.2	438.2	439.1	439.1	440.0
25°	429.6	427.9	427.1	426.2	426.2	426.2	426.2	427.1
27.5°	416.7	414.1	412.4	412.4	411.6	411.6	411.6	412.4
30°	401.2	398.6	397.8	397.8	396.9	396.9	396.9	397.8
32.5°	385.7	384.0	383.1	382.3	381.4	382.3	381.4	382.3
35°	370.2	367.6	367.6	367.6	366.8	366.8	365.9	366.8
37.5°	354.7	352.1	351.3	351.3	350.4	350.4	350.4	351.3
40°	338.4	335.8	335.8	334.9	334.1	334.1	334.1	334.9
42.5°	321.2	319.4	318.6	318.6	317.7	317.7	317.7	317.7
45°	303.9	301.3	301.3	302.2	300.5	300.5	300.5	300.5
47.5°	286.7	285.0	285.0	285.0	283.3	283.3	283.3	283.3
50°	269.5	268.6	267.8	267.8	267.8	266.9	266.9	266.9
52.5°	252.3	251.4	250.6	251.4	249.7	249.7	249.7	249.7
55°	234.2	233.3	233.3	234.2	232.5	232.5	231.6	232.5
57.5°	214.4	213.5	213.5	213.5	213.5	212.7	212.7	212.7
60°	197.2	196.3	196.3	196.3	195.4	195.4	195.4	195.4
62.5°	179.1	179.1	179.1	178.2	178.2	177.4	177.4	178.2
65°	161.9	161.0	161.0	161.0	160.1	160.1	159.3	159.3
67.5°	143.8	143.8	143.8	142.9	142.9	142.1	142.1	142.9
70°	126.6	126.6	125.7	125.7	125.7	124.8	124.8	125.7
72.5°	109.3	108.5	108.5	107.6	108.5	106.8	106.8	107.6
75°	91.3	91.3	90.4	90.4	90.4	89.5	89.5	89.5
77.5°	74.0	74.0	73.2	73.2	73.2	72.3	72.3	72.3
80°	56.8	56.0	56.0	56.0	56.0	55.1	54.2	55.1
82.5°	38.7	38.7	38.7	38.7	37.9	37.0	36.2	37.0
85°	22.4	21.5	21.5	22.4	21.5	21.5	21.5	20.7
87.5°	7.7	6.9	6.9	6.9	6.9	7.7	6.9	6.9
90°	1.7	1.7	1.7	2.6	2.6	2.6	2.6	2.6
92.5°	8.6	8.6	7.7	7.7	7.7	7.7	6.9	6.9
95°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
97.5°	28.4	28.4	27.6	27.6	27.6	27.6	27.6	27.6
100°	35.3	36.2	36.2	36.2	37.0	37.0	37.0	37.0
102.5°	41.3	41.3	42.2	42.2	42.2	43.0	43.0	43.0
105°	47.4	48.2	48.2	48.2	49.1	49.1	49.9	49.9
107.5°	56.8	56.8	56.8	56.8	57.7	57.7	57.7	57.7
110°	69.7	69.7	68.9	68.0	68.0	68.0	67.2	67.2



TEST NUMBER: P303134

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	78.4	80.1	80.1	80.9	81.8	81.8	81.8	81.8
115°	85.2	87.0	87.8	88.7	89.5	89.5	90.4	90.4
117.5°	92.1	93.0	93.8	94.7	95.6	96.4	96.4	97.3
120°	99.0	99.9	100.7	100.7	101.6	102.5	102.5	102.5
122.5°	106.8	107.6	106.8	106.8	107.6	107.6	107.6	108.5
125°	117.1	116.2	115.4	115.4	114.5	114.5	114.5	114.5
127.5°	130.9	129.1	127.4	125.7	124.8	124.0	123.1	123.1
130°	148.1	144.6	142.1	140.3	138.6	136.9	135.2	135.2
132.5°	167.9	163.6	161.0	158.4	155.8	153.3	150.7	151.5
135°	188.6	185.1	181.7	179.1	175.6	172.2	170.5	170.5
137.5°	208.4	204.1	201.5	199.8	197.2	193.7	191.1	192.0
140°	230.7	223.0	221.3	219.6	217.0	213.5	211.8	211.8
142.5°	250.6	244.5	242.8	241.9	238.5	235.1	233.3	234.2
145°	270.4	264.3	263.5	261.7	259.2	255.7	254.0	254.0
147.5°	289.3	284.1	283.3	281.5	279.0	275.5	273.8	273.8
150°	308.2	303.1	301.3	300.5	297.9	294.5	292.7	293.6
152.5°	325.5	320.3	319.4	318.6	315.1	313.4	311.7	312.5
155°	341.8	336.7	335.8	334.9	333.2	330.6	329.8	330.6
157.5°	357.3	353.0	352.1	351.3	349.6	347.0	346.1	347.8
160°	372.0	368.5	367.6	366.8	365.9	364.2	362.5	363.3
162.5°	385.7	382.3	382.3	381.4	380.6	378.8	378.0	378.8
165°	398.6	396.1	395.2	394.3	393.5	392.6	391.8	390.9
167.5°	410.7	407.3	407.3	405.5	405.5	404.7	403.8	403.8
170°	421.0	418.4	418.4	416.7	416.7	415.9	415.0	415.0
172.5°	430.5	428.8	427.9	427.9	427.9	427.1	426.2	426.2
175°	440.0	438.2	437.4	436.5	436.5	435.7	434.8	435.7
177.5°	447.7	446.9	446.0	445.1	445.1	443.4	442.6	441.7
180°	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6

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