

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: P303145

Luminaire Tested: **CTW-F-5050-30L930-UNV-STD-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303145  
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-5050-30L930-UNV-STD-8  
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE  
50% UPLIGHT, 50% DOWNLIGHT, 3000 LUMEN PACKAGE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5044.3 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32  
Luminous Opening: Rectangular (W 8' x L: 0.12' x H: 0')  
CIE Type: General Diffuse

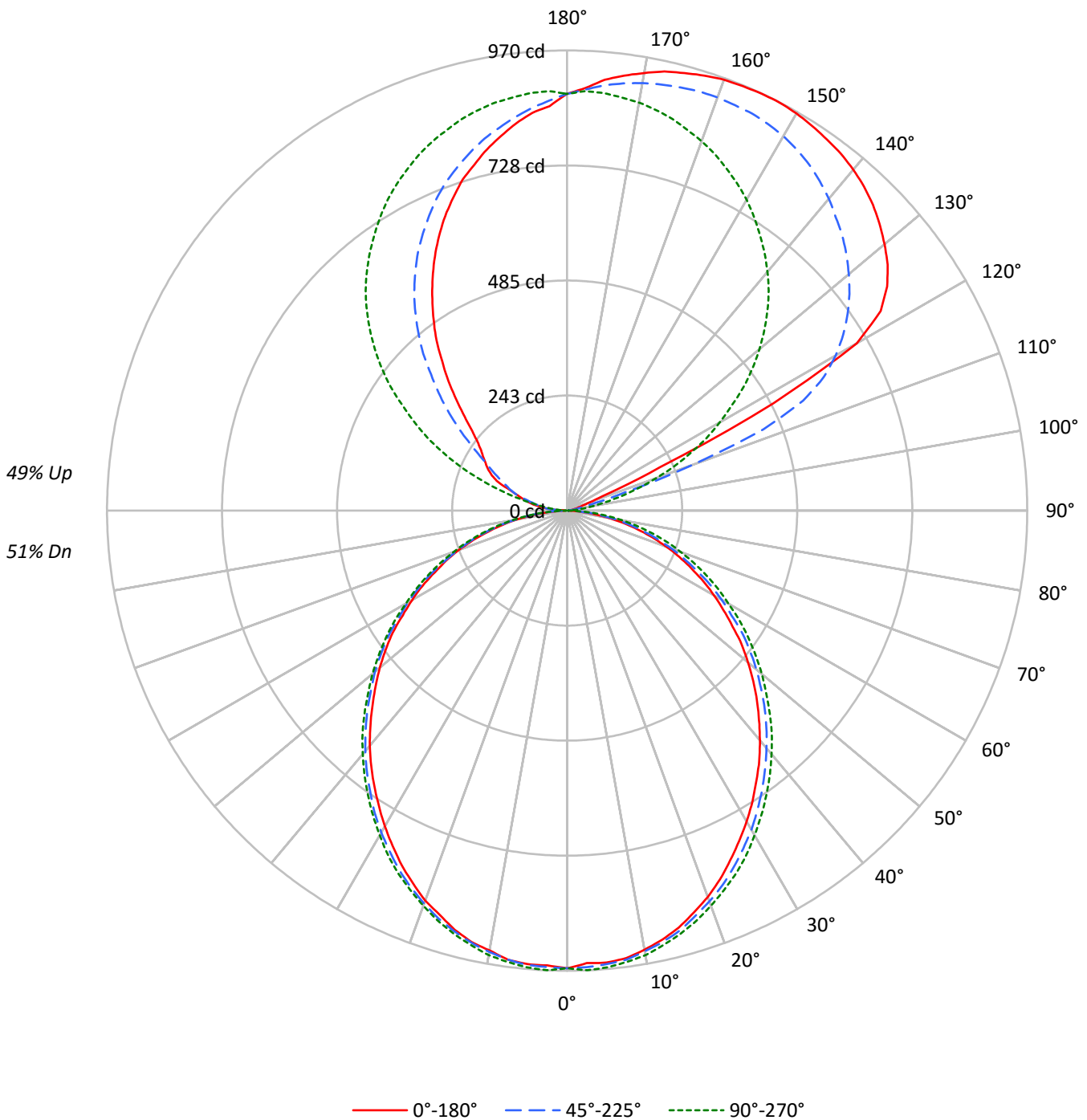
Input Watts (W): 43.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	10385	10385	10385
5°	10335	10443	10371
10°	10273	10400	10291
15°	10140	10288	10195
20°	9928	10156	10023
25°	9660	10017	9799
30°	9408	9820	9552
35°	9136	9617	9311
40°	8882	9420	9093
45°	8610	9191	8837
50°	8329	8969	8636
55°	7991	8741	8428
60°	7698	8452	8129
65°	7371	8262	7837
70°	7015	8010	7644
75°	6434	7748	7195
80°	5467	7215	6602
85°	3285	6373	4928



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.1	1.8
10°-20°	257.9	5.1
20°-30°	381.9	7.6
30°-40°	448.4	8.9
40°-50°	454.7	9.0
50°-60°	404.5	8.0
60°-70°	308.3	6.1
70°-80°	183.2	3.6
80°-90°	49.5	1.0
90°-100°	24.1	0.5
100°-110°	102.8	2.0
110°-120°	291.2	5.8
120°-130°	435.7	8.6
130°-140°	471.0	9.3
140°-150°	448.5	8.9
150°-160°	367.8	7.3
160°-170°	240.4	4.8
170°-180°	83.3	1.7
0°-30°	730.9	14.5
0°-40°	1179.3	23.4
0°-60°	2038.5	40.4
0°-90°	2579.4	51.1
90°-120°	418.1	8.3
90°-150°	1773.3	35.2
90°-180°	2465.0	48.9
0°-180°	5044.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	965	965	965	965	965	
5°	956	960	966	962	960	91
15°	910	917	923	918	915	256
25°	813	830	843	837	825	375
35°	695	717	732	724	709	435
45°	566	589	604	596	580	436
55°	426	451	466	459	449	382
65°	289	303	324	318	308	287
75°	155	165	186	180	173	163
85°	27	35	52	47	40	35
90°	2	2	2	3	5	1
95°	5	5	18	37	33	6
105°	23	60	118	90	96	27
115°	216	549	288	156	175	286
125°	823	722	454	254	221	727
135°	912	820	597	406	329	704
145°	955	890	709	562	491	599
155°	970	923	795	687	639	448
165°	955	923	855	784	755	271
175°	912	900	883	852	842	88
180°	878	878	878	878	878	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8
2.5°	954.8	954.8	959.8	961.5	961.5	963.1	964.8	966.5	966.5	966.5	963.1
5°	956.5	956.5	956.5	956.5	956.5	958.2	959.8	961.5	963.1	961.5	959.8
7.5°	951.5	951.5	951.5	951.5	949.8	951.5	951.5	954.8	954.8	954.8	954.8
10°	939.9	939.9	939.9	941.5	939.9	941.5	943.2	944.8	946.5	946.5	943.2
12.5°	926.5	926.5	926.5	928.2	926.5	926.5	929.9	929.9	933.2	931.5	931.5
15°	909.9	909.9	909.9	913.2	911.6	911.6	913.2	914.9	916.6	916.6	916.6
17.5°	888.3	888.3	891.6	893.3	891.6	893.3	893.3	894.9	898.3	898.3	896.6
20°	866.7	866.7	866.7	870.0	868.3	870.0	870.0	873.3	876.6	876.6	876.6
22.5°	841.7	840.0	841.7	843.4	843.4	845.0	845.0	848.4	851.7	853.4	855.0
25°	813.4	813.4	815.1	818.4	818.4	818.4	820.1	823.4	826.7	828.4	830.1
27.5°	785.2	785.2	786.8	790.1	791.8	791.8	791.8	796.8	801.8	803.5	803.5
30°	756.9	756.9	756.9	760.2	761.9	761.9	761.9	766.9	771.8	776.8	776.8
32.5°	726.9	726.9	726.9	731.9	733.6	733.6	733.6	736.9	741.9	745.2	746.9
35°	695.3	695.3	697.0	700.3	702.0	702.0	702.0	705.3	708.6	715.3	717.0
37.5°	665.4	663.7	665.4	668.7	670.4	670.4	668.7	673.7	678.7	683.7	685.3
40°	632.1	630.5	633.8	635.4	637.1	637.1	637.1	642.1	647.1	652.1	653.7
42.5°	598.8	598.8	600.5	602.2	603.8	603.8	605.5	608.8	612.2	618.8	622.1
45°	565.6	563.9	567.2	568.9	572.2	570.6	572.2	573.9	578.9	583.9	588.9
47.5°	532.3	532.3	532.3	534.0	537.3	539.0	539.0	540.6	545.6	550.6	553.9
50°	497.4	497.4	499.0	500.7	504.0	504.0	505.7	507.4	509.0	517.3	520.7
52.5°	464.1	464.1	464.1	465.8	470.8	470.8	470.8	474.1	477.4	480.7	485.7
55°	425.8	427.5	427.5	427.5	432.5	432.5	434.2	435.8	439.2	445.8	450.8
57.5°	390.9	392.6	392.6	394.2	395.9	397.6	399.2	399.2	402.6	405.9	410.9
60°	357.6	359.3	359.3	359.3	362.6	362.6	364.3	366.0	367.6	371.0	375.9
62.5°	324.4	324.4	324.4	324.4	327.7	327.7	329.4	332.7	332.7	336.0	341.0
65°	289.4	291.1	289.4	291.1	292.8	292.8	294.4	297.8	297.8	301.1	302.7
67.5°	256.2	256.2	256.2	257.8	257.8	259.5	259.5	262.8	264.5	266.2	267.8
70°	222.9	222.9	221.2	222.9	224.6	226.2	226.2	227.9	229.6	231.2	234.5
72.5°	188.0	188.0	188.0	189.6	189.6	191.3	191.3	194.6	196.3	198.0	199.6
75°	154.7	154.7	154.7	156.4	156.4	156.4	158.0	159.7	161.4	163.0	164.7
77.5°	121.4	121.4	121.4	123.1	121.4	123.1	123.1	126.4	128.1	129.7	131.4
80°	88.2	88.2	88.2	89.8	91.5	91.5	91.5	93.2	94.8	96.5	98.1
82.5°	56.6	54.9	54.9	56.6	58.2	58.2	59.9	59.9	61.5	63.2	66.5
85°	26.6	26.6	25.0	26.6	28.3	28.3	29.9	29.9	31.6	33.3	34.9
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	5.0	5.0	5.0	6.7
90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
92.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
95°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
97.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.0	10.0
100°	11.6	11.6	11.6	11.6	11.6	13.3	13.3	13.3	15.0	16.6	18.3
102.5°	16.6	16.6	16.6	16.6	18.3	18.3	18.3	20.0	21.6	26.6	31.6
105°	23.3	23.3	25.0	25.0	26.6	26.6	28.3	29.9	34.9	43.2	59.9
107.5°	33.3	33.3	34.9	34.9	38.3	39.9	43.2	48.2	61.5	86.5	128.1
110°	48.2	49.9	53.2	54.9	63.2	68.2	74.9	96.5	138.1	202.9	277.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	88.2	89.8	103.1	111.5	136.4	154.7	173.0	234.5	319.4	397.6	447.5
115°	216.2	226.2	244.5	277.8	331.0	369.3	404.2	472.4	527.3	547.3	548.9
117.5°	490.7	499.0	524.0	550.6	585.5	608.8	618.8	633.8	635.4	623.8	610.5
120°	705.3	705.3	705.3	712.0	712.0	715.3	710.3	703.6	688.7	670.4	653.7
122.5°	783.5	780.2	778.5	773.5	766.9	761.9	756.9	743.6	730.3	710.3	690.3
125°	823.4	818.4	816.8	810.1	800.1	796.8	790.1	776.8	761.9	741.9	721.9
127.5°	851.7	846.7	843.4	838.4	828.4	823.4	816.8	803.5	788.5	770.2	750.2
130°	873.3	868.3	865.0	861.7	850.0	846.7	840.0	826.7	811.8	795.1	775.2
132.5°	893.3	890.0	885.0	880.0	873.3	868.3	861.7	850.0	835.1	818.4	798.5
135°	911.6	906.6	903.3	899.9	890.0	886.6	880.0	868.3	855.0	836.7	820.1
137.5°	926.5	921.6	918.2	913.2	906.6	899.9	894.9	885.0	871.7	856.7	838.4
140°	938.2	933.2	929.9	924.9	918.2	913.2	908.2	899.9	888.3	873.3	858.3
142.5°	948.2	941.5	939.9	934.9	928.2	924.9	919.9	911.6	901.6	886.6	875.0
145°	954.8	949.8	948.2	943.2	938.2	933.2	931.5	924.9	913.2	898.3	890.0
147.5°	961.5	956.5	954.8	951.5	944.8	941.5	939.9	931.5	921.6	908.2	901.6
150°	966.5	961.5	959.8	956.5	949.8	948.2	946.5	939.9	929.9	916.6	911.6
152.5°	969.8	963.1	961.5	958.2	953.2	951.5	949.8	943.2	934.9	923.2	918.2
155°	969.8	964.8	963.1	959.8	954.8	953.2	949.8	944.8	936.5	928.2	923.2
157.5°	968.1	964.8	963.1	959.8	953.2	953.2	949.8	944.8	938.2	931.5	924.9
160°	966.5	961.5	961.5	958.2	953.2	953.2	949.8	946.5	938.2	933.2	926.5
162.5°	961.5	958.2	958.2	954.8	951.5	951.5	948.2	944.8	936.5	934.9	926.5
165°	954.8	951.5	951.5	949.8	944.8	944.8	943.2	938.2	933.2	931.5	923.2
167.5°	948.2	943.2	943.2	941.5	936.5	936.5	936.5	933.2	928.2	929.9	919.9
170°	936.5	931.5	931.5	929.9	928.2	928.2	928.2	924.9	919.9	923.2	914.9
172.5°	924.9	923.2	921.6	919.9	918.2	918.2	918.2	916.6	913.2	916.6	908.2
175°	911.6	908.2	908.2	906.6	906.6	906.6	906.6	906.6	903.3	908.2	899.9
177.5°	891.6	888.3	890.0	891.6	891.6	893.3	893.3	893.3	891.6	896.6	888.3
180°	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8
2.5°	959.8	963.1	961.5	961.5	961.5	961.5	961.5	963.1	968.1	969.8	969.8
5°	956.5	959.8	958.2	956.5	956.5	956.5	956.5	959.8	964.8	966.5	964.8
7.5°	949.8	953.2	951.5	949.8	951.5	951.5	951.5	954.8	959.8	959.8	959.8
10°	939.9	943.2	941.5	941.5	941.5	941.5	943.2	944.8	949.8	951.5	949.8
12.5°	928.2	929.9	928.2	929.9	929.9	929.9	929.9	931.5	936.5	938.2	938.2
15°	913.2	914.9	913.2	914.9	913.2	914.9	914.9	918.2	921.6	923.2	924.9
17.5°	894.9	894.9	894.9	896.6	896.6	896.6	896.6	899.9	904.9	906.6	906.6
20°	873.3	875.0	876.6	876.6	876.6	878.3	878.3	880.0	886.6	886.6	888.3
22.5°	853.4	853.4	855.0	855.0	856.7	856.7	856.7	858.3	865.0	865.0	865.0
25°	828.4	828.4	831.7	833.4	833.4	833.4	835.1	836.7	843.4	843.4	843.4
27.5°	801.8	801.8	806.8	805.1	806.8	808.4	810.1	813.4	816.8	818.4	818.4
30°	775.2	775.2	778.5	778.5	780.2	780.2	781.8	785.2	790.1	790.1	791.8
32.5°	748.6	748.6	750.2	751.9	753.5	751.9	753.5	756.9	761.9	761.9	763.5
35°	718.6	717.0	720.3	721.9	721.9	723.6	723.6	726.9	731.9	731.9	733.6
37.5°	688.7	687.0	690.3	692.0	693.7	693.7	693.7	697.0	700.3	702.0	703.6
40°	657.1	655.4	660.4	662.1	662.1	662.1	662.1	665.4	668.7	670.4	672.0
42.5°	622.1	623.8	627.1	630.5	630.5	630.5	632.1	632.1	637.1	638.8	640.4
45°	590.5	592.2	593.9	598.8	597.2	595.5	598.8	598.8	603.8	603.8	605.5
47.5°	557.3	558.9	558.9	563.9	563.9	562.2	565.6	565.6	568.9	568.9	572.2
50°	524.0	525.7	525.7	530.6	530.6	529.0	532.3	532.3	535.6	535.6	539.0
52.5°	487.4	490.7	490.7	495.7	497.4	495.7	497.4	497.4	500.7	500.7	504.0
55°	452.5	455.8	457.5	459.1	462.4	460.8	462.4	464.1	467.4	465.8	469.1
57.5°	415.9	415.9	419.2	420.9	422.5	422.5	427.5	425.8	425.8	430.8	432.5
60°	379.3	380.9	384.3	385.9	387.6	387.6	389.2	390.9	392.6	392.6	395.9
62.5°	344.3	347.7	349.3	351.0	352.7	351.0	356.0	357.6	359.3	359.3	359.3
65°	309.4	311.1	314.4	316.1	316.1	316.1	321.0	322.7	322.7	324.4	324.4
67.5°	272.8	276.1	279.5	279.5	282.8	281.1	286.1	287.8	287.8	289.4	291.1
70°	237.9	239.5	242.9	244.5	247.9	246.2	249.5	251.2	252.8	254.5	256.2
72.5°	202.9	204.6	207.9	209.6	211.3	212.9	214.6	217.9	219.6	221.2	221.2
75°	168.0	169.7	173.0	174.7	176.3	178.0	179.7	183.0	183.0	186.3	186.3
77.5°	134.7	136.4	138.1	139.7	143.1	144.7	146.4	148.0	149.7	151.4	151.4
80°	101.5	101.5	104.8	106.5	109.8	109.8	111.5	113.1	116.4	116.4	116.4
82.5°	68.2	69.9	71.5	73.2	76.5	76.5	78.2	81.5	83.2	83.2	83.2
85°	36.6	38.3	41.6	43.2	44.9	44.9	48.2	49.9	51.6	51.6	51.6
87.5°	8.3	10.0	11.6	13.3	16.6	18.3	18.3	20.0	21.6	21.6	21.6
90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
92.5°	3.3	3.3	3.3	3.3	3.3	5.0	6.7	8.3	8.3	6.7	8.3
95°	6.7	6.7	8.3	11.6	15.0	16.6	23.3	25.0	21.6	18.3	18.3
97.5°	11.6	15.0	20.0	29.9	36.6	41.6	49.9	46.6	39.9	34.9	31.6
100°	23.3	31.6	43.2	63.2	73.2	81.5	84.8	76.5	66.5	56.6	49.9
102.5°	41.6	63.2	89.8	121.4	131.4	134.7	133.1	116.4	99.8	83.2	73.2
105°	86.5	126.4	173.0	196.3	201.3	198.0	181.3	163.0	139.7	118.1	101.5
107.5°	186.3	242.9	272.8	276.1	271.1	261.2	236.2	211.3	183.0	158.0	134.7
110°	331.0	361.0	361.0	346.0	332.7	321.0	289.4	261.2	229.6	199.6	174.7





TEST NUMBER: P303145

CATALOG NUMBER: CTW-F-5050-30L930-UNV-STD-8

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	455.8	450.8	429.2	402.6	387.6	372.6	339.3	309.4	274.5	244.5	214.6
115°	534.0	510.7	484.1	454.1	437.5	419.2	389.2	354.3	317.7	287.8	256.2
117.5°	585.5	558.9	529.0	500.7	484.1	470.8	435.8	395.9	362.6	331.0	299.4
120°	627.1	598.8	570.6	542.3	527.3	512.3	475.7	440.8	402.6	371.0	341.0
122.5°	662.1	635.4	607.2	580.5	565.6	548.9	515.7	480.7	449.1	410.9	382.6
125°	697.0	672.0	642.1	617.1	600.5	582.2	552.3	517.3	485.7	454.1	424.2
127.5°	726.9	702.0	677.0	648.7	632.1	615.5	585.5	552.3	522.3	492.4	464.1
130°	753.5	731.9	705.3	677.0	660.4	645.4	615.5	585.5	557.3	529.0	500.7
132.5°	781.8	756.9	731.9	703.6	688.7	673.7	647.1	618.8	590.5	563.9	537.3
135°	805.1	780.2	753.5	725.3	713.6	700.3	675.4	648.7	622.1	597.2	572.2
137.5°	826.7	798.5	773.5	746.9	736.9	725.3	700.3	675.4	652.1	628.8	603.8
140°	843.4	815.1	791.8	768.5	758.5	746.9	721.9	702.0	680.4	657.1	633.8
142.5°	856.7	830.1	806.8	786.8	776.8	768.5	745.2	725.3	705.3	683.7	662.1
145°	868.3	845.0	823.4	803.5	796.8	786.8	765.2	748.6	730.3	708.6	688.7
147.5°	878.3	858.3	838.4	820.1	811.8	803.5	783.5	768.5	750.2	733.6	713.6
150°	888.3	870.0	851.7	835.1	828.4	820.1	800.1	786.8	773.5	756.9	738.6
152.5°	894.9	878.3	861.7	848.4	841.7	835.1	816.8	806.8	791.8	776.8	760.2
155°	901.6	886.6	871.7	860.0	855.0	848.4	833.4	823.4	810.1	795.1	780.2
157.5°	906.6	893.3	880.0	870.0	865.0	860.0	845.0	838.4	826.7	813.4	798.5
160°	908.2	896.6	886.6	878.3	873.3	868.3	856.7	850.0	840.0	828.4	815.1
162.5°	908.2	899.9	890.0	885.0	880.0	875.0	865.0	860.0	851.7	841.7	830.1
165°	908.2	901.6	893.3	888.3	885.0	881.6	873.3	868.3	860.0	855.0	843.4
167.5°	908.2	901.6	894.9	891.6	888.3	885.0	880.0	876.6	870.0	865.0	855.0
170°	904.9	898.3	894.9	893.3	890.0	888.3	883.3	881.6	876.6	873.3	865.0
172.5°	899.9	894.9	893.3	891.6	890.0	888.3	885.0	883.3	880.0	878.3	873.3
175°	893.3	890.0	888.3	888.3	888.3	886.6	883.3	885.0	883.3	883.3	878.3
177.5°	883.3	881.6	881.6	881.6	883.3	881.6	881.6	883.3	883.3	885.0	881.6
180°	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3



TEST NUMBER: P303145

CATALOG NUMBER: CTW-F-5050-30L930-UNV-STD-8

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8
2.5°	968.1	964.8	963.1	963.1	961.5	958.2	958.2	959.8	963.1	969.8	964.8
5°	964.8	963.1	958.2	958.2	958.2	956.5	953.2	956.5	961.5	966.5	959.8
7.5°	958.2	956.5	953.2	953.2	953.2	949.8	948.2	951.5	954.8	958.2	953.2
10°	949.8	946.5	944.8	943.2	943.2	939.9	938.2	941.5	944.8	948.2	944.8
12.5°	938.2	934.9	931.5	931.5	929.9	928.2	926.5	929.9	933.2	936.5	933.2
15°	923.2	919.9	916.6	916.6	916.6	911.6	911.6	913.2	918.2	919.9	914.9
17.5°	906.6	901.6	898.3	899.9	898.3	893.3	894.9	894.9	901.6	901.6	898.3
20°	886.6	881.6	880.0	880.0	878.3	875.0	875.0	876.6	881.6	880.0	876.6
22.5°	865.0	860.0	860.0	858.3	858.3	853.4	853.4	855.0	860.0	856.7	853.4
25°	841.7	838.4	836.7	836.7	833.4	830.1	830.1	831.7	836.7	831.7	830.1
27.5°	815.1	813.4	811.8	811.8	808.4	805.1	806.8	806.8	810.1	806.8	803.5
30°	790.1	786.8	785.2	785.2	781.8	776.8	778.5	778.5	783.5	778.5	778.5
32.5°	763.5	758.5	758.5	756.9	753.5	750.2	751.9	753.5	755.2	748.6	750.2
35°	733.6	728.6	728.6	726.9	723.6	721.9	721.9	723.6	723.6	718.6	718.6
37.5°	703.6	700.3	698.7	697.0	693.7	692.0	693.7	695.3	693.7	688.7	688.7
40°	672.0	668.7	665.4	665.4	663.7	662.1	662.1	665.4	662.1	657.1	657.1
42.5°	640.4	637.1	633.8	633.8	632.1	632.1	632.1	633.8	628.8	627.1	623.8
45°	607.2	603.8	600.5	600.5	598.8	598.8	598.8	598.8	595.5	593.9	592.2
47.5°	573.9	570.6	567.2	567.2	565.6	567.2	567.2	565.6	560.6	560.6	558.9
50°	540.6	537.3	534.0	534.0	534.0	534.0	534.0	532.3	529.0	527.3	525.7
52.5°	505.7	502.4	499.0	500.7	499.0	500.7	499.0	497.4	494.0	492.4	490.7
55°	470.8	467.4	465.8	467.4	465.8	465.8	464.1	462.4	459.1	459.1	455.8
57.5°	434.2	429.2	429.2	430.8	429.2	429.2	425.8	424.2	420.9	420.9	417.5
60°	395.9	394.2	394.2	394.2	394.2	392.6	390.9	390.9	387.6	385.9	382.6
62.5°	361.0	361.0	359.3	361.0	357.6	357.6	356.0	354.3	352.7	351.0	349.3
65°	326.0	324.4	324.4	322.7	322.7	322.7	321.0	319.4	317.7	316.1	314.4
67.5°	289.4	289.4	289.4	289.4	287.8	287.8	286.1	284.5	281.1	282.8	279.5
70°	254.5	254.5	254.5	254.5	252.8	252.8	251.2	249.5	246.2	247.9	246.2
72.5°	219.6	219.6	219.6	219.6	217.9	217.9	214.6	214.6	214.6	212.9	211.3
75°	184.6	184.6	184.6	183.0	183.0	183.0	179.7	179.7	179.7	179.7	176.3
77.5°	149.7	151.4	149.7	149.7	148.0	148.0	148.0	146.4	146.4	144.7	143.1
80°	114.8	116.4	116.4	116.4	114.8	114.8	114.8	113.1	111.5	111.5	109.8
82.5°	84.8	83.2	83.2	83.2	81.5	81.5	81.5	79.8	79.8	78.2	76.5
85°	51.6	51.6	51.6	51.6	49.9	49.9	48.2	46.6	46.6	43.2	43.2
87.5°	23.3	21.6	21.6	21.6	21.6	20.0	18.3	16.6	16.6	15.0	15.0
90°	1.7	1.7	3.3	1.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3
92.5°	11.6	15.0	16.6	18.3	16.6	18.3	18.3	18.3	16.6	16.6	16.6
95°	20.0	23.3	28.3	29.9	31.6	34.9	36.6	36.6	36.6	34.9	34.9
97.5°	31.6	34.9	36.6	38.3	38.3	43.2	46.6	49.9	53.2	53.2	54.9
100°	48.2	46.6	49.9	53.2	53.2	53.2	54.9	58.2	61.5	63.2	66.5
102.5°	68.2	63.2	63.2	64.9	66.5	71.5	69.9	71.5	73.2	74.9	76.5
105°	91.5	86.5	81.5	81.5	81.5	84.8	89.8	93.2	89.8	89.8	91.5
107.5°	121.4	111.5	103.1	101.5	101.5	99.8	103.1	108.1	111.5	113.1	111.5
110°	154.7	139.7	131.4	123.1	121.4	119.8	119.8	121.4	126.4	131.4	134.7



TEST NUMBER: P303145

CATALOG NUMBER: CTW-F-5050-30L930-UNV-STD-8

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	193.0	174.7	159.7	153.0	146.4	139.7	138.1	138.1	139.7	144.7	148.0
115°	232.9	211.3	191.3	183.0	178.0	164.7	158.0	154.7	156.4	158.0	161.4
117.5°	274.5	251.2	227.9	217.9	211.3	196.3	183.0	178.0	174.7	173.0	176.3
120°	316.1	292.8	269.5	256.2	246.2	229.6	214.6	201.3	194.6	191.3	189.6
122.5°	356.0	332.7	309.4	296.1	286.1	264.5	249.5	232.9	221.2	212.9	207.9
125°	395.9	372.6	349.3	336.0	326.0	302.7	284.5	269.5	254.5	241.2	231.2
127.5°	435.8	410.9	387.6	375.9	366.0	341.0	321.0	306.1	291.1	276.1	262.8
130°	475.7	454.1	429.2	414.2	405.9	380.9	361.0	342.7	329.4	314.4	297.8
132.5°	510.7	490.7	467.4	455.8	444.1	419.2	402.6	382.6	367.6	352.7	337.7
135°	547.3	525.7	502.4	492.4	482.4	462.4	442.5	422.5	405.9	390.9	375.9
137.5°	578.9	560.6	537.3	527.3	517.3	499.0	480.7	465.8	449.1	432.5	414.2
140°	610.5	590.5	570.6	560.6	550.6	535.6	517.3	504.0	487.4	474.1	455.8
142.5°	638.8	618.8	602.2	592.2	582.2	567.2	550.6	539.0	525.7	510.7	499.0
145°	667.0	648.7	632.1	622.1	613.8	598.8	582.2	573.9	562.2	547.3	534.0
147.5°	692.0	675.4	658.7	650.4	643.8	628.8	615.5	605.5	595.5	582.2	570.6
150°	717.0	700.3	685.3	678.7	670.4	658.7	647.1	635.4	628.8	615.5	605.5
152.5°	740.2	725.3	710.3	705.3	698.7	685.3	673.7	663.7	658.7	647.1	638.8
155°	763.5	748.6	733.6	730.3	723.6	712.0	700.3	692.0	687.0	675.4	667.0
157.5°	783.5	768.5	756.9	751.9	745.2	735.2	725.3	718.6	715.3	705.3	697.0
160°	801.8	788.5	776.8	771.8	766.9	756.9	750.2	741.9	740.2	731.9	725.3
162.5°	816.8	805.1	795.1	791.8	786.8	778.5	771.8	763.5	761.9	756.9	750.2
165°	831.7	820.1	811.8	808.4	805.1	796.8	791.8	785.2	783.5	780.2	773.5
167.5°	845.0	835.1	826.7	825.1	821.7	815.1	811.8	805.1	803.5	801.8	795.1
170°	855.0	846.7	840.0	838.4	835.1	830.1	826.7	821.7	820.1	821.7	815.1
172.5°	863.3	856.7	851.7	850.0	848.4	845.0	841.7	838.4	836.7	840.0	833.4
175°	871.7	865.0	861.7	860.0	860.0	856.7	855.0	851.7	851.7	855.0	850.0
177.5°	876.6	871.7	868.3	868.3	866.7	865.0	865.0	861.7	865.0	868.3	863.3
180°	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3



TEST NUMBER: P303145

CATALOG NUMBER: CTW-F-5050-30L930-UNV-STD-8

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8
2.5°	968.1	964.8	964.8	963.1	961.5	959.8	959.8	959.8
5°	963.1	961.5	959.8	956.5	956.5	958.2	959.8	959.8
7.5°	954.8	954.8	953.2	951.5	949.8	953.2	953.2	954.8
10°	946.5	944.8	943.2	941.5	939.9	941.5	941.5	941.5
12.5°	933.2	931.5	929.9	926.5	926.5	928.2	928.2	931.5
15°	918.2	916.6	913.2	913.2	911.6	913.2	913.2	914.9
17.5°	899.9	896.6	894.9	893.3	893.3	894.9	894.9	893.3
20°	878.3	875.0	871.7	870.0	870.0	871.7	871.7	875.0
22.5°	853.4	850.0	848.4	846.7	846.7	848.4	848.4	850.0
25°	830.1	826.7	825.1	823.4	823.4	823.4	823.4	825.1
27.5°	805.1	800.1	796.8	796.8	795.1	795.1	795.1	796.8
30°	775.2	770.2	768.5	768.5	766.9	766.9	766.9	768.5
32.5°	745.2	741.9	740.2	738.6	736.9	738.6	736.9	738.6
35°	715.3	710.3	710.3	710.3	708.6	708.6	707.0	708.6
37.5°	685.3	680.4	678.7	678.7	677.0	677.0	677.0	678.7
40°	653.7	648.7	648.7	647.1	645.4	645.4	645.4	647.1
42.5°	620.5	617.1	615.5	615.5	613.8	613.8	613.8	613.8
45°	587.2	582.2	582.2	583.9	580.5	580.5	580.5	580.5
47.5°	553.9	550.6	550.6	550.6	547.3	547.3	547.3	547.3
50°	520.7	519.0	517.3	517.3	517.3	515.7	515.7	515.7
52.5°	487.4	485.7	484.1	485.7	482.4	482.4	482.4	482.4
55°	452.5	450.8	450.8	452.5	449.1	449.1	447.5	449.1
57.5°	414.2	412.5	412.5	412.5	412.5	410.9	410.9	410.9
60°	380.9	379.3	379.3	379.3	377.6	377.6	377.6	377.6
62.5°	346.0	346.0	346.0	344.3	344.3	342.7	342.7	344.3
65°	312.7	311.1	311.1	311.1	309.4	309.4	307.7	307.7
67.5°	277.8	277.8	277.8	276.1	276.1	274.5	274.5	276.1
70°	244.5	244.5	242.9	242.9	242.9	241.2	241.2	242.9
72.5°	211.3	209.6	209.6	207.9	209.6	206.3	206.3	207.9
75°	176.3	176.3	174.7	174.7	174.7	173.0	173.0	173.0
77.5°	143.1	143.1	141.4	141.4	141.4	139.7	139.7	139.7
80°	109.8	108.1	108.1	108.1	108.1	106.5	104.8	106.5
82.5°	74.9	74.9	74.9	74.9	73.2	71.5	69.9	71.5
85°	43.2	41.6	41.6	43.2	41.6	41.6	41.6	39.9
87.5°	15.0	13.3	13.3	13.3	13.3	15.0	13.3	13.3
90°	3.3	3.3	3.3	5.0	5.0	5.0	5.0	5.0
92.5°	16.6	16.6	15.0	15.0	15.0	15.0	13.3	13.3
95°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
97.5°	54.9	54.9	53.2	53.2	53.2	53.2	53.2	53.2
100°	68.2	69.9	69.9	69.9	71.5	71.5	71.5	71.5
102.5°	79.8	79.8	81.5	81.5	81.5	83.2	83.2	83.2
105°	91.5	93.2	93.2	93.2	94.8	94.8	96.5	96.5
107.5°	109.8	109.8	109.8	109.8	111.5	111.5	111.5	111.5
110°	134.7	134.7	133.1	131.4	131.4	131.4	129.7	129.7



TEST NUMBER: P303145

CATALOG NUMBER: CTW-F-5050-30L930-UNV-STD-8

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	151.4	154.7	154.7	156.4	158.0	158.0	158.0	158.0
115°	164.7	168.0	169.7	171.3	173.0	173.0	174.7	174.7
117.5°	178.0	179.7	181.3	183.0	184.6	186.3	186.3	188.0
120°	191.3	193.0	194.6	194.6	196.3	198.0	198.0	198.0
122.5°	206.3	207.9	206.3	206.3	207.9	207.9	207.9	209.6
125°	226.2	224.6	222.9	222.9	221.2	221.2	221.2	221.2
127.5°	252.8	249.5	246.2	242.9	241.2	239.5	237.9	237.9
130°	286.1	279.5	274.5	271.1	267.8	264.5	261.2	261.2
132.5°	324.4	316.1	311.1	306.1	301.1	296.1	291.1	292.8
135°	364.3	357.6	351.0	346.0	339.3	332.7	329.4	329.4
137.5°	402.6	394.2	389.2	385.9	380.9	374.3	369.3	371.0
140°	445.8	430.8	427.5	424.2	419.2	412.5	409.2	409.2
142.5°	484.1	472.4	469.1	467.4	460.8	454.1	450.8	452.5
145°	522.3	510.7	509.0	505.7	500.7	494.0	490.7	490.7
147.5°	558.9	548.9	547.3	544.0	539.0	532.3	529.0	529.0
150°	595.5	585.5	582.2	580.5	575.6	568.9	565.6	567.2
152.5°	628.8	618.8	617.1	615.5	608.8	605.5	602.2	603.8
155°	660.4	650.4	648.7	647.1	643.8	638.8	637.1	638.8
157.5°	690.3	682.0	680.4	678.7	675.4	670.4	668.7	672.0
160°	718.6	712.0	710.3	708.6	707.0	703.6	700.3	702.0
162.5°	745.2	738.6	738.6	736.9	735.2	731.9	730.3	731.9
165°	770.2	765.2	763.5	761.9	760.2	758.5	756.9	755.2
167.5°	793.5	786.8	786.8	783.5	783.5	781.8	780.2	780.2
170°	813.4	808.4	808.4	805.1	805.1	803.5	801.8	801.8
172.5°	831.7	828.4	826.7	826.7	826.7	825.1	823.4	823.4
175°	850.0	846.7	845.0	843.4	843.4	841.7	840.0	841.7
177.5°	865.0	863.3	861.7	860.0	860.0	856.7	855.0	853.4
180°	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3

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