

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: P303140

Luminaire Tested: **CTW-F-5050-30L935-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303140
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-6
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

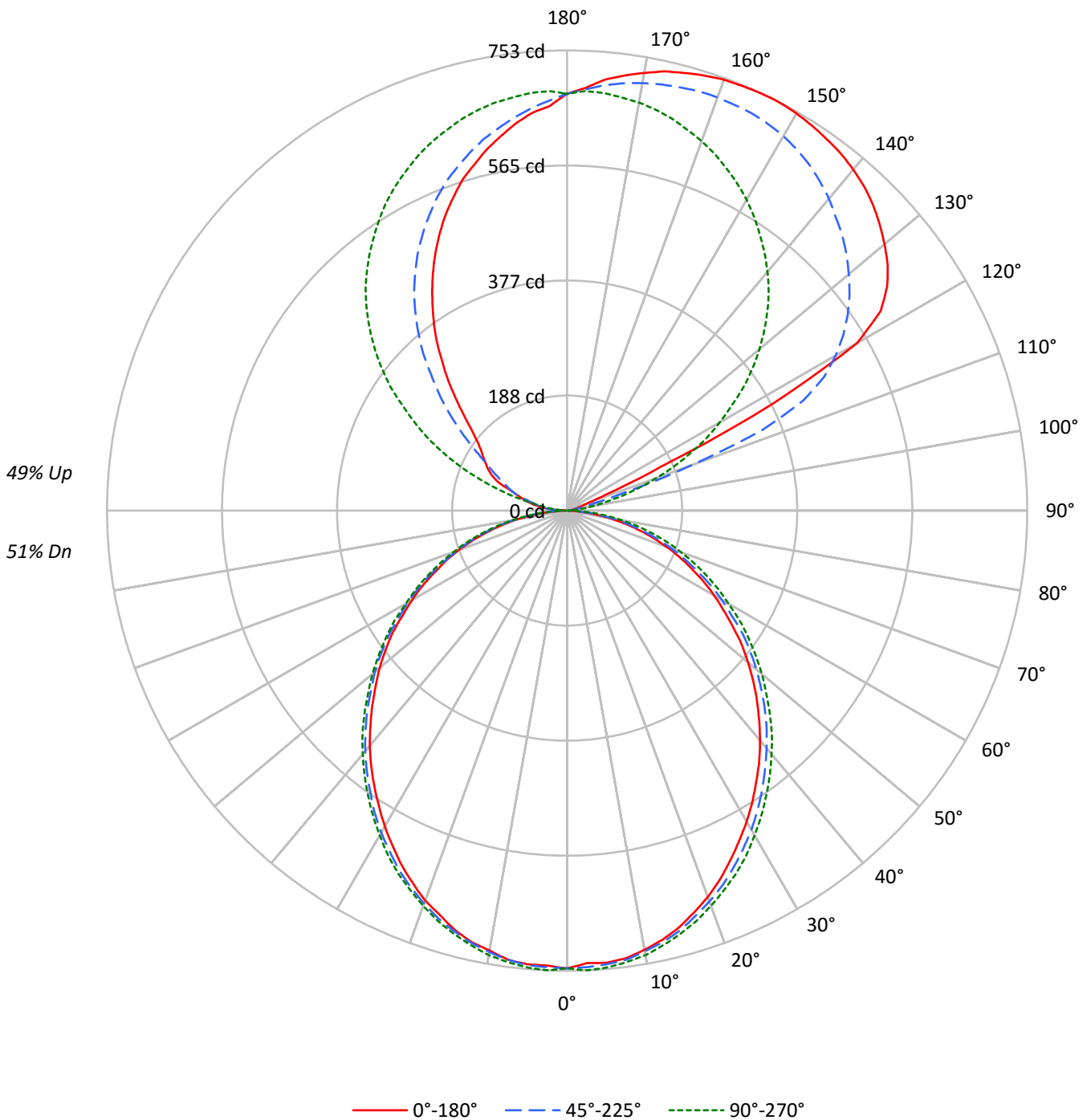
Lumens per Lamp: N/A
Luminaire Lumens: 3916.4 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 33.4
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	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40	36
3	81	72	64	58	75	66	60	55	57	52	48	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	34	30	31	28	26	22
6	63	51	42	36	58	47	40	34	40	35	30	34	30	26	28	25	22	20
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	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	19	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°	10751	10751	10751
5°	10698	10811	10736
10°	10634	10765	10653
15°	10497	10650	10554
20°	10277	10514	10375
25°	10000	10369	10144
30°	9738	10167	9889
35°	9458	9957	9640
40°	9195	9752	9412
45°	8912	9515	9148
50°	8623	9286	8940
55°	8272	9048	8725
60°	7971	8749	8416
65°	7631	8551	8113
70°	7264	8292	7914
75°	6660	8018	7447
80°	5653	7471	6835
85°	3409	6587	5105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.8
10°-20°	200.2	5.1
20°-30°	296.5	7.6
30°-40°	348.1	8.9
40°-50°	353.0	9.0
50°-60°	314.0	8.0
60°-70°	239.4	6.1
70°-80°	142.2	3.6
80°-90°	38.4	1.0
90°-100°	18.7	0.5
100°-110°	79.8	2.0
110°-120°	226.1	5.8
120°-130°	338.3	8.6
130°-140°	365.7	9.3
140°-150°	348.2	8.9
150°-160°	285.6	7.3
160°-170°	186.7	4.8
170°-180°	64.7	1.7
0°-30°	567.5	14.5
0°-40°	915.6	23.4
0°-60°	1582.7	40.4
0°-90°	2002.6	51.1
90°-120°	324.6	8.3
90°-150°	1376.8	35.2
90°-180°	1914.0	48.9
0°-180°	3916.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	749	749	749	749	749	
5°	743	745	750	746	745	70
15°	706	712	717	713	710	199
25°	632	644	655	650	641	291
35°	540	557	568	562	550	338
45°	439	457	469	462	451	339
55°	331	350	362	356	349	297
65°	225	235	252	247	239	223
75°	120	128	145	140	134	127
85°	21	27	40	36	31	27
90°	1	1	1	3	4	1
95°	4	4	14	28	26	4
105°	18	46	92	70	75	21
115°	168	426	223	121	136	222
125°	639	560	353	198	172	565
135°	708	637	464	315	256	546
145°	741	691	550	436	381	465
155°	753	717	617	533	496	348
165°	741	717	664	608	586	210
175°	708	699	686	661	654	68
180°	682	682	682	682	682	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1
2.5°	741.3	741.3	745.2	746.5	746.5	747.8	749.1	750.4	750.4	750.4	747.8
5°	742.6	742.6	742.6	742.6	742.6	743.9	745.2	746.5	747.8	746.5	745.2
7.5°	738.7	738.7	738.7	738.7	737.4	738.7	738.7	741.3	741.3	741.3	741.3
10°	729.7	729.7	729.7	731.0	729.7	731.0	732.3	733.6	734.9	734.9	732.3
12.5°	719.4	719.4	719.4	720.7	719.4	719.4	721.9	721.9	724.5	723.2	723.2
15°	706.5	706.5	706.5	709.0	707.7	707.7	709.0	710.3	711.6	711.6	711.6
17.5°	689.7	689.7	692.2	693.5	692.2	693.5	693.5	694.8	697.4	697.4	696.1
20°	672.9	672.9	672.9	675.5	674.2	675.5	675.5	678.0	680.6	680.6	680.6
22.5°	653.5	652.2	653.5	654.8	654.8	656.1	656.1	658.7	661.2	662.5	663.8
25°	631.5	631.5	632.8	635.4	635.4	635.4	636.7	639.3	641.9	643.2	644.5
27.5°	609.6	609.6	610.9	613.5	614.8	614.8	614.8	618.6	622.5	623.8	623.8
30°	587.6	587.6	587.6	590.2	591.5	591.5	591.5	595.4	599.3	603.1	603.1
32.5°	564.4	564.4	564.4	568.3	569.6	569.6	569.6	572.1	576.0	578.6	579.9
35°	539.8	539.8	541.1	543.7	545.0	545.0	545.0	547.6	550.2	555.3	556.6
37.5°	516.6	515.3	516.6	519.2	520.5	520.5	519.2	523.1	526.9	530.8	532.1
40°	490.8	489.5	492.1	493.4	494.6	494.6	494.6	498.5	502.4	506.3	507.6
42.5°	464.9	464.9	466.2	467.5	468.8	468.8	470.1	472.7	475.3	480.4	483.0
45°	439.1	437.8	440.4	441.7	444.3	443.0	444.3	445.6	449.4	453.3	457.2
47.5°	413.3	413.3	413.3	414.6	417.2	418.4	418.4	419.7	423.6	427.5	430.1
50°	386.2	386.2	387.4	388.7	391.3	391.3	392.6	393.9	395.2	401.7	404.2
52.5°	360.3	360.3	360.3	361.6	365.5	365.5	365.5	368.1	370.7	373.2	377.1
55°	330.6	331.9	331.9	331.9	335.8	335.8	337.1	338.4	341.0	346.1	350.0
57.5°	303.5	304.8	304.8	306.1	307.4	308.7	310.0	310.0	312.5	315.1	319.0
60°	277.7	279.0	279.0	279.0	281.5	281.5	282.8	284.1	285.4	288.0	291.9
62.5°	251.8	251.8	251.8	251.8	254.4	254.4	255.7	258.3	258.3	260.9	264.8
65°	224.7	226.0	224.7	226.0	227.3	227.3	228.6	231.2	231.2	233.8	235.1
67.5°	198.9	198.9	198.9	200.2	200.2	201.5	201.5	204.1	205.3	206.6	207.9
70°	173.1	173.1	171.8	173.1	174.4	175.6	175.6	176.9	178.2	179.5	182.1
72.5°	145.9	145.9	145.9	147.2	147.2	148.5	148.5	151.1	152.4	153.7	155.0
75°	120.1	120.1	120.1	121.4	121.4	121.4	122.7	124.0	125.3	126.6	127.9
77.5°	94.3	94.3	94.3	95.6	94.3	95.6	95.6	98.2	99.4	100.7	102.0
80°	68.4	68.4	68.4	69.7	71.0	71.0	71.0	72.3	73.6	74.9	76.2
82.5°	43.9	42.6	42.6	43.9	45.2	45.2	46.5	46.5	47.8	49.1	51.7
85°	20.7	20.7	19.4	20.7	22.0	22.0	23.2	23.2	24.5	25.8	27.1
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	3.9	5.2
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°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
95°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
97.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.7	7.7
100°	9.0	9.0	9.0	9.0	9.0	10.3	10.3	10.3	11.6	12.9	14.2
102.5°	12.9	12.9	12.9	12.9	14.2	14.2	14.2	15.5	16.8	20.7	24.5
105°	18.1	18.1	19.4	19.4	20.7	20.7	22.0	23.2	27.1	33.6	46.5
107.5°	25.8	25.8	27.1	27.1	29.7	31.0	33.6	37.5	47.8	67.2	99.4
110°	37.5	38.7	41.3	42.6	49.1	53.0	58.1	74.9	107.2	157.6	215.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	68.4	69.7	80.1	86.5	105.9	120.1	134.3	182.1	248.0	308.7	347.4
115°	167.9	175.6	189.9	215.7	257.0	286.7	313.8	366.8	409.4	424.9	426.2
117.5°	381.0	387.4	406.8	427.5	454.6	472.7	480.4	492.1	493.4	484.3	474.0
120°	547.6	547.6	547.6	552.8	552.8	555.3	551.5	546.3	534.7	520.5	507.6
122.5°	608.3	605.7	604.4	600.5	595.4	591.5	587.6	577.3	567.0	551.5	536.0
125°	639.3	635.4	634.1	629.0	621.2	618.6	613.5	603.1	591.5	576.0	560.5
127.5°	661.2	657.4	654.8	650.9	643.2	639.3	634.1	623.8	612.2	598.0	582.5
130°	678.0	674.2	671.6	669.0	660.0	657.4	652.2	641.9	630.3	617.3	601.8
132.5°	693.5	691.0	687.1	683.2	678.0	674.2	669.0	660.0	648.3	635.4	619.9
135°	707.7	703.9	701.3	698.7	691.0	688.4	683.2	674.2	663.8	649.6	636.7
137.5°	719.4	715.5	712.9	709.0	703.9	698.7	694.8	687.1	676.7	665.1	650.9
140°	728.4	724.5	721.9	718.1	712.9	709.0	705.2	698.7	689.7	678.0	666.4
142.5°	736.2	731.0	729.7	725.8	720.7	718.1	714.2	707.7	700.0	688.4	679.3
145°	741.3	737.4	736.2	732.3	728.4	724.5	723.2	718.1	709.0	697.4	691.0
147.5°	746.5	742.6	741.3	738.7	733.6	731.0	729.7	723.2	715.5	705.2	700.0
150°	750.4	746.5	745.2	742.6	737.4	736.2	734.9	729.7	721.9	711.6	707.7
152.5°	752.9	747.8	746.5	743.9	740.0	738.7	737.4	732.3	725.8	716.8	712.9
155°	752.9	749.1	747.8	745.2	741.3	740.0	737.4	733.6	727.1	720.7	716.8
157.5°	751.7	749.1	747.8	745.2	740.0	740.0	737.4	733.6	728.4	723.2	718.1
160°	750.4	746.5	746.5	743.9	740.0	740.0	737.4	734.9	728.4	724.5	719.4
162.5°	746.5	743.9	743.9	741.3	738.7	738.7	736.2	733.6	727.1	725.8	719.4
165°	741.3	738.7	738.7	737.4	733.6	733.6	732.3	728.4	724.5	723.2	716.8
167.5°	736.2	732.3	732.3	731.0	727.1	727.1	727.1	724.5	720.7	721.9	714.2
170°	727.1	723.2	723.2	721.9	720.7	720.7	720.7	718.1	714.2	716.8	710.3
172.5°	718.1	716.8	715.5	714.2	712.9	712.9	712.9	711.6	709.0	711.6	705.2
175°	707.7	705.2	705.2	703.9	703.9	703.9	703.9	703.9	701.3	705.2	698.7
177.5°	692.2	689.7	691.0	692.2	692.2	693.5	693.5	693.5	692.2	696.1	689.7
180°	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1
2.5°	745.2	747.8	746.5	746.5	746.5	746.5	746.5	747.8	751.7	752.9	752.9
5°	742.6	745.2	743.9	742.6	742.6	742.6	742.6	745.2	749.1	750.4	749.1
7.5°	737.4	740.0	738.7	737.4	738.7	738.7	738.7	741.3	745.2	745.2	745.2
10°	729.7	732.3	731.0	731.0	731.0	731.0	732.3	733.6	737.4	738.7	737.4
12.5°	720.7	721.9	720.7	721.9	721.9	721.9	721.9	723.2	727.1	728.4	728.4
15°	709.0	710.3	709.0	710.3	709.0	710.3	710.3	712.9	715.5	716.8	718.1
17.5°	694.8	694.8	694.8	696.1	696.1	696.1	696.1	698.7	702.6	703.9	703.9
20°	678.0	679.3	680.6	680.6	680.6	681.9	681.9	683.2	688.4	688.4	689.7
22.5°	662.5	662.5	663.8	663.8	665.1	665.1	665.1	666.4	671.6	671.6	671.6
25°	643.2	643.2	645.7	647.0	647.0	647.0	648.3	649.6	654.8	654.8	654.8
27.5°	622.5	622.5	626.4	625.1	626.4	627.7	629.0	631.5	634.1	635.4	635.4
30°	601.8	601.8	604.4	604.4	605.7	605.7	607.0	609.6	613.5	613.5	614.8
32.5°	581.2	581.2	582.5	583.8	585.0	583.8	585.0	587.6	591.5	591.5	592.8
35°	557.9	556.6	559.2	560.5	560.5	561.8	561.8	564.4	568.3	568.3	569.6
37.5°	534.7	533.4	536.0	537.3	538.6	538.6	538.6	541.1	543.7	545.0	546.3
40°	510.1	508.9	512.7	514.0	514.0	514.0	514.0	516.6	519.2	520.5	521.8
42.5°	483.0	484.3	486.9	489.5	489.5	489.5	490.8	490.8	494.6	495.9	497.2
45°	458.5	459.8	461.1	464.9	463.6	462.4	464.9	464.9	468.8	468.8	470.1
47.5°	432.7	433.9	433.9	437.8	437.8	436.5	439.1	439.1	441.7	441.7	444.3
50°	406.8	408.1	408.1	412.0	412.0	410.7	413.3	413.3	415.9	415.9	418.4
52.5°	378.4	381.0	381.0	384.9	386.2	384.9	386.2	386.2	388.7	388.7	391.3
55°	351.3	353.9	355.2	356.5	359.0	357.7	359.0	360.3	362.9	361.6	364.2
57.5°	322.9	322.9	325.5	326.7	328.0	328.0	331.9	330.6	330.6	334.5	335.8
60°	294.5	295.8	298.3	299.6	300.9	300.9	302.2	303.5	304.8	304.8	307.4
62.5°	267.3	269.9	271.2	272.5	273.8	272.5	276.4	277.7	279.0	279.0	279.0
65°	240.2	241.5	244.1	245.4	245.4	245.4	249.3	250.6	250.6	251.8	251.8
67.5°	211.8	214.4	217.0	217.0	219.6	218.3	222.1	223.4	223.4	224.7	226.0
70°	184.7	186.0	188.6	189.9	192.4	191.1	193.7	195.0	196.3	197.6	198.9
72.5°	157.6	158.9	161.4	162.7	164.0	165.3	166.6	169.2	170.5	171.8	171.8
75°	130.4	131.7	134.3	135.6	136.9	138.2	139.5	142.1	142.1	144.6	144.6
77.5°	104.6	105.9	107.2	108.5	111.1	112.4	113.7	114.9	116.2	117.5	117.5
80°	78.8	78.8	81.4	82.7	85.2	85.2	86.5	87.8	90.4	90.4	90.4
82.5°	53.0	54.2	55.5	56.8	59.4	59.4	60.7	63.3	64.6	64.6	64.6
85°	28.4	29.7	32.3	33.6	34.9	34.9	37.5	38.7	40.0	40.0	40.0
87.5°	6.5	7.7	9.0	10.3	12.9	14.2	14.2	15.5	16.8	16.8	16.8
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°	2.6	2.6	2.6	2.6	2.6	3.9	5.2	6.5	6.5	5.2	6.5
95°	5.2	5.2	6.5	9.0	11.6	12.9	18.1	19.4	16.8	14.2	14.2
97.5°	9.0	11.6	15.5	23.2	28.4	32.3	38.7	36.2	31.0	27.1	24.5
100°	18.1	24.5	33.6	49.1	56.8	63.3	65.9	59.4	51.7	43.9	38.7
102.5°	32.3	49.1	69.7	94.3	102.0	104.6	103.3	90.4	77.5	64.6	56.8
105°	67.2	98.2	134.3	152.4	156.3	153.7	140.8	126.6	108.5	91.7	78.8
107.5°	144.6	188.6	211.8	214.4	210.5	202.8	183.4	164.0	142.1	122.7	104.6
110°	257.0	280.3	280.3	268.6	258.3	249.3	224.7	202.8	178.2	155.0	135.6



TEST NUMBER: P303140

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	353.9	350.0	333.2	312.5	300.9	289.3	263.5	240.2	213.1	189.9	166.6
115°	414.6	396.5	375.8	352.6	339.7	325.5	302.2	275.1	246.7	223.4	198.9
117.5°	454.6	433.9	410.7	388.7	375.8	365.5	338.4	307.4	281.5	257.0	232.5
120°	486.9	464.9	443.0	421.0	409.4	397.8	369.4	342.2	312.5	288.0	264.8
122.5°	514.0	493.4	471.4	450.7	439.1	426.2	400.4	373.2	348.7	319.0	297.0
125°	541.1	521.8	498.5	479.1	466.2	452.0	428.8	401.7	377.1	352.6	329.3
127.5°	564.4	545.0	525.6	503.7	490.8	477.9	454.6	428.8	405.5	382.3	360.3
130°	585.0	568.3	547.6	525.6	512.7	501.1	477.9	454.6	432.7	410.7	388.7
132.5°	607.0	587.6	568.3	546.3	534.7	523.1	502.4	480.4	458.5	437.8	417.2
135°	625.1	605.7	585.0	563.1	554.1	543.7	524.3	503.7	483.0	463.6	444.3
137.5°	641.9	619.9	600.5	579.9	572.1	563.1	543.7	524.3	506.3	488.2	468.8
140°	654.8	632.8	614.8	596.7	588.9	579.9	560.5	545.0	528.2	510.1	492.1
142.5°	665.1	644.5	626.4	610.9	603.1	596.7	578.6	563.1	547.6	530.8	514.0
145°	674.2	656.1	639.3	623.8	618.6	610.9	594.1	581.2	567.0	550.2	534.7
147.5°	681.9	666.4	650.9	636.7	630.3	623.8	608.3	596.7	582.5	569.6	554.1
150°	689.7	675.5	661.2	648.3	643.2	636.7	621.2	610.9	600.5	587.6	573.4
152.5°	694.8	681.9	669.0	658.7	653.5	648.3	634.1	626.4	614.8	603.1	590.2
155°	700.0	688.4	676.7	667.7	663.8	658.7	647.0	639.3	629.0	617.3	605.7
157.5°	703.9	693.5	683.2	675.5	671.6	667.7	656.1	650.9	641.9	631.5	619.9
160°	705.2	696.1	688.4	681.9	678.0	674.2	665.1	660.0	652.2	643.2	632.8
162.5°	705.2	698.7	691.0	687.1	683.2	679.3	671.6	667.7	661.2	653.5	644.5
165°	705.2	700.0	693.5	689.7	687.1	684.5	678.0	674.2	667.7	663.8	654.8
167.5°	705.2	700.0	694.8	692.2	689.7	687.1	683.2	680.6	675.5	671.6	663.8
170°	702.6	697.4	694.8	693.5	691.0	689.7	685.8	684.5	680.6	678.0	671.6
172.5°	698.7	694.8	693.5	692.2	691.0	689.7	687.1	685.8	683.2	681.9	678.0
175°	693.5	691.0	689.7	689.7	689.7	688.4	685.8	687.1	685.8	685.8	681.9
177.5°	685.8	684.5	684.5	684.5	685.8	684.5	684.5	685.8	685.8	687.1	684.5
180°	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9



TEST NUMBER: P303140

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1
2.5°	751.7	749.1	747.8	747.8	746.5	743.9	743.9	745.2	747.8	752.9	749.1
5°	749.1	747.8	743.9	743.9	743.9	742.6	740.0	742.6	746.5	750.4	745.2
7.5°	743.9	742.6	740.0	740.0	740.0	737.4	736.2	738.7	741.3	743.9	740.0
10°	737.4	734.9	733.6	732.3	732.3	729.7	728.4	731.0	733.6	736.2	733.6
12.5°	728.4	725.8	723.2	723.2	721.9	720.7	719.4	721.9	724.5	727.1	724.5
15°	716.8	714.2	711.6	711.6	711.6	707.7	707.7	709.0	712.9	714.2	710.3
17.5°	703.9	700.0	697.4	698.7	697.4	693.5	694.8	694.8	700.0	700.0	697.4
20°	688.4	684.5	683.2	683.2	681.9	679.3	679.3	680.6	684.5	683.2	680.6
22.5°	671.6	667.7	667.7	666.4	666.4	662.5	662.5	663.8	667.7	665.1	662.5
25°	653.5	650.9	649.6	649.6	647.0	644.5	644.5	645.7	649.6	645.7	644.5
27.5°	632.8	631.5	630.3	630.3	627.7	625.1	626.4	626.4	629.0	626.4	623.8
30°	613.5	610.9	609.6	609.6	607.0	603.1	604.4	604.4	608.3	604.4	604.4
32.5°	592.8	588.9	588.9	587.6	585.0	582.5	583.8	585.0	586.3	581.2	582.5
35°	569.6	565.7	565.7	564.4	561.8	560.5	560.5	561.8	561.8	557.9	557.9
37.5°	546.3	543.7	542.4	541.1	538.6	537.3	538.6	539.8	538.6	534.7	534.7
40°	521.8	519.2	516.6	516.6	515.3	514.0	514.0	516.6	514.0	510.1	510.1
42.5°	497.2	494.6	492.1	492.1	490.8	490.8	490.8	492.1	488.2	486.9	484.3
45°	471.4	468.8	466.2	466.2	464.9	464.9	464.9	464.9	462.4	461.1	459.8
47.5°	445.6	443.0	440.4	440.4	439.1	440.4	440.4	439.1	435.2	435.2	433.9
50°	419.7	417.2	414.6	414.6	414.6	414.6	414.6	413.3	410.7	409.4	408.1
52.5°	392.6	390.0	387.4	388.7	387.4	388.7	387.4	386.2	383.6	382.3	381.0
55°	365.5	362.9	361.6	362.9	361.6	361.6	360.3	359.0	356.5	356.5	353.9
57.5°	337.1	333.2	333.2	334.5	333.2	333.2	330.6	329.3	326.7	326.7	324.2
60°	307.4	306.1	306.1	306.1	306.1	304.8	303.5	303.5	300.9	299.6	297.0
62.5°	280.3	280.3	279.0	280.3	277.7	277.7	276.4	275.1	273.8	272.5	271.2
65°	253.1	251.8	251.8	250.6	250.6	250.6	249.3	248.0	246.7	245.4	244.1
67.5°	224.7	224.7	224.7	224.7	223.4	223.4	222.1	220.8	218.3	219.6	217.0
70°	197.6	197.6	197.6	197.6	196.3	196.3	195.0	193.7	191.1	192.4	191.1
72.5°	170.5	170.5	170.5	170.5	169.2	169.2	166.6	166.6	166.6	165.3	164.0
75°	143.4	143.4	143.4	142.1	142.1	142.1	139.5	139.5	139.5	139.5	136.9
77.5°	116.2	117.5	116.2	116.2	114.9	114.9	114.9	113.7	113.7	112.4	111.1
80°	89.1	90.4	90.4	90.4	89.1	89.1	89.1	87.8	86.5	86.5	85.2
82.5°	65.9	64.6	64.6	64.6	63.3	63.3	63.3	62.0	62.0	60.7	59.4
85°	40.0	40.0	40.0	40.0	38.7	38.7	37.5	36.2	36.2	33.6	33.6
87.5°	18.1	16.8	16.8	16.8	16.8	15.5	14.2	12.9	12.9	11.6	11.6
90°	1.3	1.3	2.6	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
92.5°	9.0	11.6	12.9	14.2	12.9	14.2	14.2	14.2	12.9	12.9	12.9
95°	15.5	18.1	22.0	23.2	24.5	27.1	28.4	28.4	28.4	27.1	27.1
97.5°	24.5	27.1	28.4	29.7	29.7	33.6	36.2	38.7	41.3	41.3	42.6
100°	37.5	36.2	38.7	41.3	41.3	41.3	42.6	45.2	47.8	49.1	51.7
102.5°	53.0	49.1	49.1	50.4	51.7	55.5	54.2	55.5	56.8	58.1	59.4
105°	71.0	67.2	63.3	63.3	63.3	65.9	69.7	72.3	69.7	69.7	71.0
107.5°	94.3	86.5	80.1	78.8	78.8	77.5	80.1	83.9	86.5	87.8	86.5
110°	120.1	108.5	102.0	95.6	94.3	93.0	93.0	94.3	98.2	102.0	104.6



TEST NUMBER: P303140

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	149.8	135.6	124.0	118.8	113.7	108.5	107.2	107.2	108.5	112.4	114.9
115°	180.8	164.0	148.5	142.1	138.2	127.9	122.7	120.1	121.4	122.7	125.3
117.5°	213.1	195.0	176.9	169.2	164.0	152.4	142.1	138.2	135.6	134.3	136.9
120°	245.4	227.3	209.2	198.9	191.1	178.2	166.6	156.3	151.1	148.5	147.2
122.5°	276.4	258.3	240.2	229.9	222.1	205.3	193.7	180.8	171.8	165.3	161.4
125°	307.4	289.3	271.2	260.9	253.1	235.1	220.8	209.2	197.6	187.3	179.5
127.5°	338.4	319.0	300.9	291.9	284.1	264.8	249.3	237.6	226.0	214.4	204.1
130°	369.4	352.6	333.2	321.6	315.1	295.8	280.3	266.0	255.7	244.1	231.2
132.5°	396.5	381.0	362.9	353.9	344.8	325.5	312.5	297.0	285.4	273.8	262.2
135°	424.9	408.1	390.0	382.3	374.5	359.0	343.5	328.0	315.1	303.5	291.9
137.5°	449.4	435.2	417.2	409.4	401.7	387.4	373.2	361.6	348.7	335.8	321.6
140°	474.0	458.5	443.0	435.2	427.5	415.9	401.7	391.3	378.4	368.1	353.9
142.5°	495.9	480.4	467.5	459.8	452.0	440.4	427.5	418.4	408.1	396.5	387.4
145°	517.9	503.7	490.8	483.0	476.6	464.9	452.0	445.6	436.5	424.9	414.6
147.5°	537.3	524.3	511.4	505.0	499.8	488.2	477.9	470.1	462.4	452.0	443.0
150°	556.6	543.7	532.1	526.9	520.5	511.4	502.4	493.4	488.2	477.9	470.1
152.5°	574.7	563.1	551.5	547.6	542.4	532.1	523.1	515.3	511.4	502.4	495.9
155°	592.8	581.2	569.6	567.0	561.8	552.8	543.7	537.3	533.4	524.3	517.9
157.5°	608.3	596.7	587.6	583.8	578.6	570.8	563.1	557.9	555.3	547.6	541.1
160°	622.5	612.2	603.1	599.3	595.4	587.6	582.5	576.0	574.7	568.3	563.1
162.5°	634.1	625.1	617.3	614.8	610.9	604.4	599.3	592.8	591.5	587.6	582.5
165°	645.7	636.7	630.3	627.7	625.1	618.6	614.8	609.6	608.3	605.7	600.5
167.5°	656.1	648.3	641.9	640.6	638.0	632.8	630.3	625.1	623.8	622.5	617.3
170°	663.8	657.4	652.2	650.9	648.3	644.5	641.9	638.0	636.7	638.0	632.8
172.5°	670.3	665.1	661.2	660.0	658.7	656.1	653.5	650.9	649.6	652.2	647.0
175°	676.7	671.6	669.0	667.7	667.7	665.1	663.8	661.2	661.2	663.8	660.0
177.5°	680.6	676.7	674.2	674.2	672.9	671.6	671.6	669.0	671.6	674.2	670.3
180°	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9



TEST NUMBER: P303140

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1
2.5°	751.7	749.1	749.1	747.8	746.5	745.2	745.2	745.2
5°	747.8	746.5	745.2	742.6	742.6	743.9	745.2	745.2
7.5°	741.3	741.3	740.0	738.7	737.4	740.0	740.0	741.3
10°	734.9	733.6	732.3	731.0	729.7	731.0	731.0	731.0
12.5°	724.5	723.2	721.9	719.4	719.4	720.7	720.7	723.2
15°	712.9	711.6	709.0	709.0	707.7	709.0	709.0	710.3
17.5°	698.7	696.1	694.8	693.5	693.5	694.8	694.8	693.5
20°	681.9	679.3	676.7	675.5	675.5	676.7	676.7	679.3
22.5°	662.5	660.0	658.7	657.4	657.4	658.7	658.7	660.0
25°	644.5	641.9	640.6	639.3	639.3	639.3	639.3	640.6
27.5°	625.1	621.2	618.6	618.6	617.3	617.3	617.3	618.6
30°	601.8	598.0	596.7	596.7	595.4	595.4	595.4	596.7
32.5°	578.6	576.0	574.7	573.4	572.1	573.4	572.1	573.4
35°	555.3	551.5	551.5	551.5	550.2	550.2	548.9	550.2
37.5°	532.1	528.2	526.9	526.9	525.6	525.6	525.6	526.9
40°	507.6	503.7	503.7	502.4	501.1	501.1	501.1	502.4
42.5°	481.7	479.1	477.9	477.9	476.6	476.6	476.6	476.6
45°	455.9	452.0	452.0	453.3	450.7	450.7	450.7	450.7
47.5°	430.1	427.5	427.5	427.5	424.9	424.9	424.9	424.9
50°	404.2	402.9	401.7	401.7	401.7	400.4	400.4	400.4
52.5°	378.4	377.1	375.8	377.1	374.5	374.5	374.5	374.5
55°	351.3	350.0	350.0	351.3	348.7	348.7	347.4	348.7
57.5°	321.6	320.3	320.3	320.3	320.3	319.0	319.0	319.0
60°	295.8	294.5	294.5	294.5	293.2	293.2	293.2	293.2
62.5°	268.6	268.6	268.6	267.3	267.3	266.0	266.0	267.3
65°	242.8	241.5	241.5	241.5	240.2	240.2	238.9	238.9
67.5°	215.7	215.7	215.7	214.4	214.4	213.1	213.1	214.4
70°	189.9	189.9	188.6	188.6	188.6	187.3	187.3	188.6
72.5°	164.0	162.7	162.7	161.4	162.7	160.1	160.1	161.4
75°	136.9	136.9	135.6	135.6	135.6	134.3	134.3	134.3
77.5°	111.1	111.1	109.8	109.8	109.8	108.5	108.5	108.5
80°	85.2	83.9	83.9	83.9	83.9	82.7	81.4	82.7
82.5°	58.1	58.1	58.1	58.1	56.8	55.5	54.2	55.5
85°	33.6	32.3	32.3	33.6	32.3	32.3	32.3	31.0
87.5°	11.6	10.3	10.3	10.3	10.3	11.6	10.3	10.3
90°	2.6	2.6	2.6	3.9	3.9	3.9	3.9	3.9
92.5°	12.9	12.9	11.6	11.6	11.6	11.6	10.3	10.3
95°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
97.5°	42.6	42.6	41.3	41.3	41.3	41.3	41.3	41.3
100°	53.0	54.2	54.2	54.2	55.5	55.5	55.5	55.5
102.5°	62.0	62.0	63.3	63.3	63.3	64.6	64.6	64.6
105°	71.0	72.3	72.3	72.3	73.6	73.6	74.9	74.9
107.5°	85.2	85.2	85.2	85.2	86.5	86.5	86.5	86.5
110°	104.6	104.6	103.3	102.0	102.0	102.0	100.7	100.7



TEST NUMBER: P303140

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	117.5	120.1	120.1	121.4	122.7	122.7	122.7	122.7
115°	127.9	130.4	131.7	133.0	134.3	134.3	135.6	135.6
117.5°	138.2	139.5	140.8	142.1	143.4	144.6	144.6	145.9
120°	148.5	149.8	151.1	151.1	152.4	153.7	153.7	153.7
122.5°	160.1	161.4	160.1	160.1	161.4	161.4	161.4	162.7
125°	175.6	174.4	173.1	173.1	171.8	171.8	171.8	171.8
127.5°	196.3	193.7	191.1	188.6	187.3	186.0	184.7	184.7
130°	222.1	217.0	213.1	210.5	207.9	205.3	202.8	202.8
132.5°	251.8	245.4	241.5	237.6	233.8	229.9	226.0	227.3
135°	282.8	277.7	272.5	268.6	263.5	258.3	255.7	255.7
137.5°	312.5	306.1	302.2	299.6	295.8	290.6	286.7	288.0
140°	346.1	334.5	331.9	329.3	325.5	320.3	317.7	317.7
142.5°	375.8	366.8	364.2	362.9	357.7	352.6	350.0	351.3
145°	405.5	396.5	395.2	392.6	388.7	383.6	381.0	381.0
147.5°	433.9	426.2	424.9	422.3	418.4	413.3	410.7	410.7
150°	462.4	454.6	452.0	450.7	446.9	441.7	439.1	440.4
152.5°	488.2	480.4	479.1	477.9	472.7	470.1	467.5	468.8
155°	512.7	505.0	503.7	502.4	499.8	495.9	494.6	495.9
157.5°	536.0	529.5	528.2	526.9	524.3	520.5	519.2	521.8
160°	557.9	552.8	551.5	550.2	548.9	546.3	543.7	545.0
162.5°	578.6	573.4	573.4	572.1	570.8	568.3	567.0	568.3
165°	598.0	594.1	592.8	591.5	590.2	588.9	587.6	586.3
167.5°	616.0	610.9	610.9	608.3	608.3	607.0	605.7	605.7
170°	631.5	627.7	627.7	625.1	625.1	623.8	622.5	622.5
172.5°	645.7	643.2	641.9	641.9	641.9	640.6	639.3	639.3
175°	660.0	657.4	656.1	654.8	654.8	653.5	652.2	653.5
177.5°	671.6	670.3	669.0	667.7	667.7	665.1	663.8	662.5
180°	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9

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