

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: P303139

Luminaire Tested: **CTW-F-5050-30L930-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303139
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-6
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

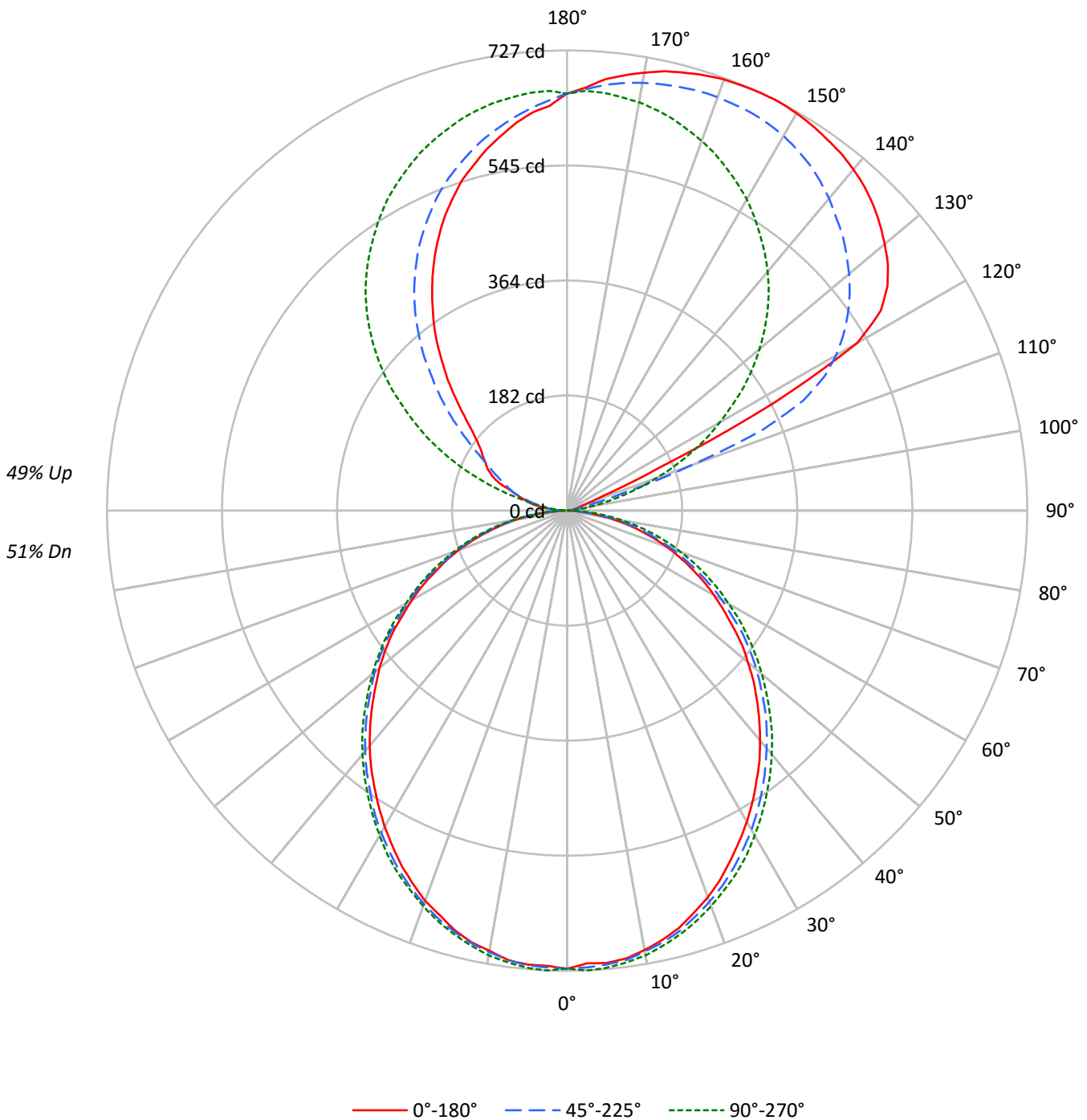
Lumens per Lamp: N/A
Luminaire Lumens: 3783.2 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: General Diffuse

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°	10385	10385	10385
5°	10335	10443	10371
10°	10273	10399	10290
15°	10139	10288	10196
20°	9927	10157	10022
25°	9661	10016	9799
30°	9408	9821	9552
35°	9137	9617	9312
40°	8882	9420	9092
45°	8610	9192	8837
50°	8328	8969	8636
55°	7992	8740	8430
60°	7698	8450	8129
65°	7373	8262	7838
70°	7016	8011	7641
75°	6432	7747	7192
80°	5463	7215	6595
85°	3293	6373	4924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	1.8
10°-20°	193.4	5.1
20°-30°	286.4	7.6
30°-40°	336.3	8.9
40°-50°	341.0	9.0
50°-60°	303.3	8.0
60°-70°	231.2	6.1
70°-80°	137.4	3.6
80°-90°	37.1	1.0
90°-100°	18.1	0.5
100°-110°	77.1	2.0
110°-120°	218.4	5.8
120°-130°	326.8	8.6
130°-140°	353.3	9.3
140°-150°	336.4	8.9
150°-160°	275.9	7.3
160°-170°	180.3	4.8
170°-180°	62.5	1.7
0°-30°	548.2	14.5
0°-40°	884.5	23.4
0°-60°	1528.9	40.4
0°-90°	1934.5	51.1
90°-120°	313.6	8.3
90°-150°	1330.0	35.2
90°-180°	1849.0	48.9
0°-180°	3783.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	724	724	724	724	724	
5°	717	720	725	721	720	68
15°	682	687	692	689	686	192
25°	610	623	632	628	619	281
35°	522	538	549	543	532	327
45°	424	442	453	447	435	327
55°	319	338	349	344	337	286
65°	217	227	243	238	231	215
75°	116	124	140	135	130	123
85°	20	26	39	35	30	26
90°	1	1	1	2	4	1
95°	4	4	14	27	25	4
105°	18	45	89	67	72	20
115°	162	412	216	117	131	215
125°	618	542	341	191	166	545
135°	684	615	448	304	247	528
145°	716	668	532	422	368	449
155°	727	692	596	515	479	336
165°	716	692	641	588	566	203
175°	684	675	662	639	631	66
180°	659	659	659	659	659	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
2.5°	716.1	716.1	719.9	721.1	721.1	722.4	723.6	724.9	724.9	724.9	722.4
5°	717.4	717.4	717.4	717.4	717.4	718.6	719.9	721.1	722.4	721.1	719.9
7.5°	713.6	713.6	713.6	713.6	712.4	713.6	713.6	716.1	716.1	716.1	716.1
10°	704.9	704.9	704.9	706.1	704.9	706.1	707.4	708.6	709.9	709.9	707.4
12.5°	694.9	694.9	694.9	696.2	694.9	694.9	697.4	697.4	699.9	698.7	698.7
15°	682.4	682.4	682.4	684.9	683.7	683.7	684.9	686.2	687.4	687.4	687.4
17.5°	666.2	666.2	668.7	670.0	668.7	670.0	670.0	671.2	673.7	673.7	672.5
20°	650.0	650.0	650.0	652.5	651.2	652.5	652.5	655.0	657.5	657.5	657.5
22.5°	631.3	630.0	631.3	632.5	632.5	633.8	633.8	636.3	638.8	640.0	641.3
25°	610.1	610.1	611.3	613.8	613.8	613.8	615.1	617.6	620.1	621.3	622.6
27.5°	588.9	588.9	590.1	592.6	593.9	593.9	593.9	597.6	601.3	602.6	602.6
30°	567.7	567.7	567.7	570.2	571.4	571.4	571.4	575.1	578.9	582.6	582.6
32.5°	545.2	545.2	545.2	548.9	550.2	550.2	550.2	552.7	556.4	558.9	560.2
35°	521.5	521.5	522.7	525.2	526.5	526.5	526.5	529.0	531.5	536.5	537.7
37.5°	499.0	497.8	499.0	501.5	502.8	502.8	501.5	505.3	509.0	512.8	514.0
40°	474.1	472.8	475.3	476.6	477.8	477.8	477.8	481.6	485.3	489.1	490.3
42.5°	449.1	449.1	450.4	451.6	452.9	452.9	454.1	456.6	459.1	464.1	466.6
45°	424.2	422.9	425.4	426.7	429.2	427.9	429.2	430.4	434.2	437.9	441.6
47.5°	399.2	399.2	399.2	400.5	403.0	404.2	404.2	405.5	409.2	413.0	415.4
50°	373.0	373.0	374.3	375.5	378.0	378.0	379.3	380.5	381.8	388.0	390.5
52.5°	348.1	348.1	348.1	349.3	353.1	353.1	353.1	355.6	358.1	360.6	364.3
55°	319.4	320.6	320.6	320.6	324.4	324.4	325.6	326.9	329.4	334.4	338.1
57.5°	293.2	294.4	294.4	295.7	296.9	298.2	299.4	299.4	301.9	304.4	308.2
60°	268.2	269.5	269.5	269.5	272.0	272.0	273.2	274.5	275.7	278.2	282.0
62.5°	243.3	243.3	243.3	243.3	245.8	245.8	247.0	249.5	249.5	252.0	255.8
65°	217.1	218.3	217.1	218.3	219.6	219.6	220.8	223.3	223.3	225.8	227.1
67.5°	192.1	192.1	192.1	193.4	193.4	194.6	194.6	197.1	198.4	199.6	200.9
70°	167.2	167.2	165.9	167.2	168.4	169.7	169.7	170.9	172.2	173.4	175.9
72.5°	141.0	141.0	141.0	142.2	142.2	143.5	143.5	146.0	147.2	148.5	149.7
75°	116.0	116.0	116.0	117.3	117.3	117.3	118.5	119.8	121.0	122.3	123.5
77.5°	91.1	91.1	91.1	92.3	91.1	92.3	92.3	94.8	96.1	97.3	98.6
80°	66.1	66.1	66.1	67.4	68.6	68.6	68.6	69.9	71.1	72.4	73.6
82.5°	42.4	41.2	41.2	42.4	43.7	43.7	44.9	44.9	46.2	47.4	49.9
85°	20.0	20.0	18.7	20.0	21.2	21.2	22.5	22.5	23.7	25.0	26.2
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7	5.0
90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
92.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
95°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
97.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.5	7.5
100°	8.7	8.7	8.7	8.7	8.7	10.0	10.0	10.0	11.2	12.5	13.7
102.5°	12.5	12.5	12.5	12.5	13.7	13.7	13.7	15.0	16.2	20.0	23.7
105°	17.5	17.5	18.7	18.7	20.0	20.0	21.2	22.5	26.2	32.4	44.9
107.5°	25.0	25.0	26.2	26.2	28.7	29.9	32.4	36.2	46.2	64.9	96.1
110°	36.2	37.4	39.9	41.2	47.4	51.2	56.1	72.4	103.6	152.2	208.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	66.1	67.4	77.4	83.6	102.3	116.0	129.7	175.9	239.5	298.2	335.6
115°	162.2	169.7	183.4	208.3	248.3	277.0	303.2	354.3	395.5	410.5	411.7
117.5°	368.0	374.3	393.0	413.0	439.2	456.6	464.1	475.3	476.6	467.8	457.9
120°	529.0	529.0	529.0	534.0	534.0	536.5	532.7	527.7	516.5	502.8	490.3
122.5°	587.6	585.1	583.9	580.1	575.1	571.4	567.7	557.7	547.7	532.7	517.8
125°	617.6	613.8	612.6	607.6	600.1	597.6	592.6	582.6	571.4	556.4	541.5
127.5°	638.8	635.0	632.5	628.8	621.3	617.6	612.6	602.6	591.4	577.6	562.7
130°	655.0	651.2	648.7	646.3	637.5	635.0	630.0	620.1	608.8	596.4	581.4
132.5°	670.0	667.5	663.7	660.0	655.0	651.2	646.3	637.5	626.3	613.8	598.8
135°	683.7	679.9	677.4	674.9	667.5	665.0	660.0	651.2	641.3	627.5	615.1
137.5°	694.9	691.2	688.7	684.9	679.9	674.9	671.2	663.7	653.7	642.5	628.8
140°	703.6	699.9	697.4	693.7	688.7	684.9	681.2	674.9	666.2	655.0	643.8
142.5°	711.1	706.1	704.9	701.1	696.2	693.7	689.9	683.7	676.2	665.0	656.2
145°	716.1	712.4	711.1	707.4	703.6	699.9	698.7	693.7	684.9	673.7	667.5
147.5°	721.1	717.4	716.1	713.6	708.6	706.1	704.9	698.7	691.2	681.2	676.2
150°	724.9	721.1	719.9	717.4	712.4	711.1	709.9	704.9	697.4	687.4	683.7
152.5°	727.3	722.4	721.1	718.6	714.9	713.6	712.4	707.4	701.1	692.4	688.7
155°	727.3	723.6	722.4	719.9	716.1	714.9	712.4	708.6	702.4	696.2	692.4
157.5°	726.1	723.6	722.4	719.9	714.9	714.9	712.4	708.6	703.6	698.7	693.7
160°	724.9	721.1	721.1	718.6	714.9	714.9	712.4	709.9	703.6	699.9	694.9
162.5°	721.1	718.6	718.6	716.1	713.6	713.6	711.1	708.6	702.4	701.1	694.9
165°	716.1	713.6	713.6	712.4	708.6	708.6	707.4	703.6	699.9	698.7	692.4
167.5°	711.1	707.4	707.4	706.1	702.4	702.4	702.4	699.9	696.2	697.4	689.9
170°	702.4	698.7	698.7	697.4	696.2	696.2	696.2	693.7	689.9	692.4	686.2
172.5°	693.7	692.4	691.2	689.9	688.7	688.7	688.7	687.4	684.9	687.4	681.2
175°	683.7	681.2	681.2	679.9	679.9	679.9	679.9	679.9	677.4	681.2	674.9
177.5°	668.7	666.2	667.5	668.7	668.7	670.0	670.0	670.0	668.7	672.5	666.2
180°	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
2.5°	719.9	722.4	721.1	721.1	721.1	721.1	721.1	722.4	726.1	727.3	727.3
5°	717.4	719.9	718.6	717.4	717.4	717.4	717.4	719.9	723.6	724.9	723.6
7.5°	712.4	714.9	713.6	712.4	713.6	713.6	713.6	716.1	719.9	719.9	719.9
10°	704.9	707.4	706.1	706.1	706.1	706.1	707.4	708.6	712.4	713.6	712.4
12.5°	696.2	697.4	696.2	697.4	697.4	697.4	697.4	698.7	702.4	703.6	703.6
15°	684.9	686.2	684.9	686.2	684.9	686.2	686.2	688.7	691.2	692.4	693.7
17.5°	671.2	671.2	671.2	672.5	672.5	672.5	672.5	674.9	678.7	679.9	679.9
20°	655.0	656.2	657.5	657.5	657.5	658.7	658.7	660.0	665.0	665.0	666.2
22.5°	640.0	640.0	641.3	641.3	642.5	642.5	642.5	643.8	648.7	648.7	648.7
25°	621.3	621.3	623.8	625.0	625.0	625.0	626.3	627.5	632.5	632.5	632.5
27.5°	601.3	601.3	605.1	603.8	605.1	606.3	607.6	610.1	612.6	613.8	613.8
30°	581.4	581.4	583.9	583.9	585.1	585.1	586.4	588.9	592.6	592.6	593.9
32.5°	561.4	561.4	562.7	563.9	565.2	563.9	565.2	567.7	571.4	571.4	572.6
35°	539.0	537.7	540.2	541.5	541.5	542.7	542.7	545.2	548.9	548.9	550.2
37.5°	516.5	515.3	517.8	519.0	520.2	520.2	520.2	522.7	525.2	526.5	527.7
40°	492.8	491.6	495.3	496.5	496.5	496.5	496.5	499.0	501.5	502.8	504.0
42.5°	466.6	467.8	470.3	472.8	472.8	472.8	474.1	474.1	477.8	479.1	480.3
45°	442.9	444.1	445.4	449.1	447.9	446.6	449.1	449.1	452.9	452.9	454.1
47.5°	417.9	419.2	419.2	422.9	422.9	421.7	424.2	424.2	426.7	426.7	429.2
50°	393.0	394.2	394.2	398.0	398.0	396.7	399.2	399.2	401.7	401.7	404.2
52.5°	365.5	368.0	368.0	371.8	373.0	371.8	373.0	373.0	375.5	375.5	378.0
55°	339.3	341.8	343.1	344.3	346.8	345.6	346.8	348.1	350.6	349.3	351.8
57.5°	311.9	311.9	314.4	315.6	316.9	316.9	320.6	319.4	319.4	323.1	324.4
60°	284.5	285.7	288.2	289.4	290.7	290.7	291.9	293.2	294.4	294.4	296.9
62.5°	258.3	260.7	262.0	263.2	264.5	263.2	267.0	268.2	269.5	269.5	269.5
65°	232.1	233.3	235.8	237.0	237.0	237.0	240.8	242.0	242.0	243.3	243.3
67.5°	204.6	207.1	209.6	209.6	212.1	210.8	214.6	215.8	215.8	217.1	218.3
70°	178.4	179.7	182.1	183.4	185.9	184.6	187.1	188.4	189.6	190.9	192.1
72.5°	152.2	153.5	155.9	157.2	158.4	159.7	160.9	163.4	164.7	165.9	165.9
75°	126.0	127.3	129.7	131.0	132.2	133.5	134.7	137.2	137.2	139.7	139.7
77.5°	101.1	102.3	103.6	104.8	107.3	108.5	109.8	111.0	112.3	113.5	113.5
80°	76.1	76.1	78.6	79.8	82.3	82.3	83.6	84.8	87.3	87.3	87.3
82.5°	51.2	52.4	53.6	54.9	57.4	57.4	58.6	61.1	62.4	62.4	62.4
85°	27.4	28.7	31.2	32.4	33.7	33.7	36.2	37.4	38.7	38.7	38.7
87.5°	6.2	7.5	8.7	10.0	12.5	13.7	13.7	15.0	16.2	16.2	16.2
90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
92.5°	2.5	2.5	2.5	2.5	2.5	3.7	5.0	6.2	6.2	5.0	6.2
95°	5.0	5.0	6.2	8.7	11.2	12.5	17.5	18.7	16.2	13.7	13.7
97.5°	8.7	11.2	15.0	22.5	27.4	31.2	37.4	34.9	29.9	26.2	23.7
100°	17.5	23.7	32.4	47.4	54.9	61.1	63.6	57.4	49.9	42.4	37.4
102.5°	31.2	47.4	67.4	91.1	98.6	101.1	99.8	87.3	74.9	62.4	54.9
105°	64.9	94.8	129.7	147.2	151.0	148.5	136.0	122.3	104.8	88.6	76.1
107.5°	139.7	182.1	204.6	207.1	203.4	195.9	177.2	158.4	137.2	118.5	101.1
110°	248.3	270.7	270.7	259.5	249.5	240.8	217.1	195.9	172.2	149.7	131.0



TEST NUMBER: P303139

CATALOG NUMBER: CTW-F-5050-30L930-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	341.8	338.1	321.9	301.9	290.7	279.5	254.5	232.1	205.9	183.4	160.9
115°	400.5	383.0	363.1	340.6	328.1	314.4	291.9	265.7	238.3	215.8	192.1
117.5°	439.2	419.2	396.7	375.5	363.1	353.1	326.9	296.9	272.0	248.3	224.6
120°	470.3	449.1	427.9	406.7	395.5	384.3	356.8	330.6	301.9	278.2	255.8
122.5°	496.5	476.6	455.4	435.4	424.2	411.7	386.8	360.6	336.9	308.2	286.9
125°	522.7	504.0	481.6	462.9	450.4	436.7	414.2	388.0	364.3	340.6	318.1
127.5°	545.2	526.5	507.8	486.6	474.1	461.6	439.2	414.2	391.7	369.3	348.1
130°	565.2	548.9	529.0	507.8	495.3	484.1	461.6	439.2	417.9	396.7	375.5
132.5°	586.4	567.7	548.9	527.7	516.5	505.3	485.3	464.1	442.9	422.9	403.0
135°	603.8	585.1	565.2	544.0	535.2	525.2	506.5	486.6	466.6	447.9	429.2
137.5°	620.1	598.8	580.1	560.2	552.7	544.0	525.2	506.5	489.1	471.6	452.9
140°	632.5	611.3	593.9	576.4	568.9	560.2	541.5	526.5	510.3	492.8	475.3
142.5°	642.5	622.6	605.1	590.1	582.6	576.4	558.9	544.0	529.0	512.8	496.5
145°	651.2	633.8	617.6	602.6	597.6	590.1	573.9	561.4	547.7	531.5	516.5
147.5°	658.7	643.8	628.8	615.1	608.8	602.6	587.6	576.4	562.7	550.2	535.2
150°	666.2	652.5	638.8	626.3	621.3	615.1	600.1	590.1	580.1	567.7	553.9
152.5°	671.2	658.7	646.3	636.3	631.3	626.3	612.6	605.1	593.9	582.6	570.2
155°	676.2	665.0	653.7	645.0	641.3	636.3	625.0	617.6	607.6	596.4	585.1
157.5°	679.9	670.0	660.0	652.5	648.7	645.0	633.8	628.8	620.1	610.1	598.8
160°	681.2	672.5	665.0	658.7	655.0	651.2	642.5	637.5	630.0	621.3	611.3
162.5°	681.2	674.9	667.5	663.7	660.0	656.2	648.7	645.0	638.8	631.3	622.6
165°	681.2	676.2	670.0	666.2	663.7	661.2	655.0	651.2	645.0	641.3	632.5
167.5°	681.2	676.2	671.2	668.7	666.2	663.7	660.0	657.5	652.5	648.7	641.3
170°	678.7	673.7	671.2	670.0	667.5	666.2	662.5	661.2	657.5	655.0	648.7
172.5°	674.9	671.2	670.0	668.7	667.5	666.2	663.7	662.5	660.0	658.7	655.0
175°	670.0	667.5	666.2	666.2	666.2	665.0	662.5	663.7	662.5	662.5	658.7
177.5°	662.5	661.2	661.2	661.2	662.5	661.2	661.2	662.5	662.5	663.7	661.2
180°	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7



TEST NUMBER: P303139

CATALOG NUMBER: CTW-F-5050-30L930-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
2.5°	726.1	723.6	722.4	722.4	721.1	718.6	718.6	719.9	722.4	727.3	723.6
5°	723.6	722.4	718.6	718.6	718.6	717.4	714.9	717.4	721.1	724.9	719.9
7.5°	718.6	717.4	714.9	714.9	714.9	712.4	711.1	713.6	716.1	718.6	714.9
10°	712.4	709.9	708.6	707.4	707.4	704.9	703.6	706.1	708.6	711.1	708.6
12.5°	703.6	701.1	698.7	698.7	697.4	696.2	694.9	697.4	699.9	702.4	699.9
15°	692.4	689.9	687.4	687.4	687.4	683.7	683.7	684.9	688.7	689.9	686.2
17.5°	679.9	676.2	673.7	674.9	673.7	670.0	671.2	671.2	676.2	676.2	673.7
20°	665.0	661.2	660.0	660.0	658.7	656.2	656.2	657.5	661.2	660.0	657.5
22.5°	648.7	645.0	645.0	643.8	643.8	640.0	640.0	641.3	645.0	642.5	640.0
25°	631.3	628.8	627.5	627.5	625.0	622.6	622.6	623.8	627.5	623.8	622.6
27.5°	611.3	610.1	608.8	608.8	606.3	603.8	605.1	605.1	607.6	605.1	602.6
30°	592.6	590.1	588.9	588.9	586.4	582.6	583.9	583.9	587.6	583.9	583.9
32.5°	572.6	568.9	568.9	567.7	565.2	562.7	563.9	565.2	566.4	561.4	562.7
35°	550.2	546.4	546.4	545.2	542.7	541.5	541.5	542.7	542.7	539.0	539.0
37.5°	527.7	525.2	524.0	522.7	520.2	519.0	520.2	521.5	520.2	516.5	516.5
40°	504.0	501.5	499.0	499.0	497.8	496.5	496.5	499.0	496.5	492.8	492.8
42.5°	480.3	477.8	475.3	475.3	474.1	474.1	474.1	475.3	471.6	470.3	467.8
45°	455.4	452.9	450.4	450.4	449.1	449.1	449.1	449.1	446.6	445.4	444.1
47.5°	430.4	427.9	425.4	425.4	424.2	425.4	425.4	424.2	420.4	420.4	419.2
50°	405.5	403.0	400.5	400.5	400.5	400.5	400.5	399.2	396.7	395.5	394.2
52.5°	379.3	376.8	374.3	375.5	374.3	375.5	374.3	373.0	370.5	369.3	368.0
55°	353.1	350.6	349.3	350.6	349.3	349.3	348.1	346.8	344.3	344.3	341.8
57.5°	325.6	321.9	321.9	323.1	321.9	321.9	319.4	318.1	315.6	315.6	313.1
60°	296.9	295.7	295.7	295.7	295.7	294.4	293.2	293.2	290.7	289.4	286.9
62.5°	270.7	270.7	269.5	270.7	268.2	268.2	267.0	265.7	264.5	263.2	262.0
65°	244.5	243.3	243.3	242.0	242.0	242.0	240.8	239.5	238.3	237.0	235.8
67.5°	217.1	217.1	217.1	217.1	215.8	215.8	214.6	213.3	210.8	212.1	209.6
70°	190.9	190.9	190.9	190.9	189.6	189.6	188.4	187.1	184.6	185.9	184.6
72.5°	164.7	164.7	164.7	164.7	163.4	163.4	160.9	160.9	160.9	159.7	158.4
75°	138.5	138.5	138.5	137.2	137.2	137.2	134.7	134.7	134.7	134.7	132.2
77.5°	112.3	113.5	112.3	112.3	111.0	111.0	111.0	109.8	109.8	108.5	107.3
80°	86.1	87.3	87.3	87.3	86.1	86.1	86.1	84.8	83.6	83.6	82.3
82.5°	63.6	62.4	62.4	62.4	61.1	61.1	61.1	59.9	59.9	58.6	57.4
85°	38.7	38.7	38.7	38.7	37.4	37.4	36.2	34.9	34.9	32.4	32.4
87.5°	17.5	16.2	16.2	16.2	16.2	15.0	13.7	12.5	12.5	11.2	11.2
90°	1.2	1.2	2.5	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
92.5°	8.7	11.2	12.5	13.7	12.5	13.7	13.7	13.7	12.5	12.5	12.5
95°	15.0	17.5	21.2	22.5	23.7	26.2	27.4	27.4	27.4	26.2	26.2
97.5°	23.7	26.2	27.4	28.7	28.7	32.4	34.9	37.4	39.9	39.9	41.2
100°	36.2	34.9	37.4	39.9	39.9	39.9	41.2	43.7	46.2	47.4	49.9
102.5°	51.2	47.4	47.4	48.7	49.9	53.6	52.4	53.6	54.9	56.1	57.4
105°	68.6	64.9	61.1	61.1	61.1	63.6	67.4	69.9	67.4	67.4	68.6
107.5°	91.1	83.6	77.4	76.1	76.1	74.9	77.4	81.1	83.6	84.8	83.6
110°	116.0	104.8	98.6	92.3	91.1	89.8	89.8	91.1	94.8	98.6	101.1



TEST NUMBER: P303139

CATALOG NUMBER: CTW-F-5050-30L930-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	144.7	131.0	119.8	114.8	109.8	104.8	103.6	103.6	104.8	108.5	111.0
115°	174.7	158.4	143.5	137.2	133.5	123.5	118.5	116.0	117.3	118.5	121.0
117.5°	205.9	188.4	170.9	163.4	158.4	147.2	137.2	133.5	131.0	129.7	132.2
120°	237.0	219.6	202.1	192.1	184.6	172.2	160.9	151.0	146.0	143.5	142.2
122.5°	267.0	249.5	232.1	222.1	214.6	198.4	187.1	174.7	165.9	159.7	155.9
125°	296.9	279.5	262.0	252.0	244.5	227.1	213.3	202.1	190.9	180.9	173.4
127.5°	326.9	308.2	290.7	282.0	274.5	255.8	240.8	229.6	218.3	207.1	197.1
130°	356.8	340.6	321.9	310.7	304.4	285.7	270.7	257.0	247.0	235.8	223.3
132.5°	383.0	368.0	350.6	341.8	333.1	314.4	301.9	286.9	275.7	264.5	253.3
135°	410.5	394.2	376.8	369.3	361.8	346.8	331.9	316.9	304.4	293.2	282.0
137.5°	434.2	420.4	403.0	395.5	388.0	374.3	360.6	349.3	336.9	324.4	310.7
140°	457.9	442.9	427.9	420.4	413.0	401.7	388.0	378.0	365.5	355.6	341.8
142.5°	479.1	464.1	451.6	444.1	436.7	425.4	413.0	404.2	394.2	383.0	374.3
145°	500.3	486.6	474.1	466.6	460.4	449.1	436.7	430.4	421.7	410.5	400.5
147.5°	519.0	506.5	494.0	487.8	482.8	471.6	461.6	454.1	446.6	436.7	427.9
150°	537.7	525.2	514.0	509.0	502.8	494.0	485.3	476.6	471.6	461.6	454.1
152.5°	555.2	544.0	532.7	529.0	524.0	514.0	505.3	497.8	494.0	485.3	479.1
155°	572.6	561.4	550.2	547.7	542.7	534.0	525.2	519.0	515.3	506.5	500.3
157.5°	587.6	576.4	567.7	563.9	558.9	551.4	544.0	539.0	536.5	529.0	522.7
160°	601.3	591.4	582.6	578.9	575.1	567.7	562.7	556.4	555.2	548.9	544.0
162.5°	612.6	603.8	596.4	593.9	590.1	583.9	578.9	572.6	571.4	567.7	562.7
165°	623.8	615.1	608.8	606.3	603.8	597.6	593.9	588.9	587.6	585.1	580.1
167.5°	633.8	626.3	620.1	618.8	616.3	611.3	608.8	603.8	602.6	601.3	596.4
170°	641.3	635.0	630.0	628.8	626.3	622.6	620.1	616.3	615.1	616.3	611.3
172.5°	647.5	642.5	638.8	637.5	636.3	633.8	631.3	628.8	627.5	630.0	625.0
175°	653.7	648.7	646.3	645.0	645.0	642.5	641.3	638.8	638.8	641.3	637.5
177.5°	657.5	653.7	651.2	651.2	650.0	648.7	648.7	646.3	648.7	651.2	647.5
180°	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7



TEST NUMBER: P303139

CATALOG NUMBER: CTW-F-5050-30L930-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
2.5°	726.1	723.6	723.6	722.4	721.1	719.9	719.9	719.9
5°	722.4	721.1	719.9	717.4	717.4	718.6	719.9	719.9
7.5°	716.1	716.1	714.9	713.6	712.4	714.9	714.9	716.1
10°	709.9	708.6	707.4	706.1	704.9	706.1	706.1	706.1
12.5°	699.9	698.7	697.4	694.9	694.9	696.2	696.2	698.7
15°	688.7	687.4	684.9	684.9	683.7	684.9	684.9	686.2
17.5°	674.9	672.5	671.2	670.0	670.0	671.2	671.2	670.0
20°	658.7	656.2	653.7	652.5	652.5	653.7	653.7	656.2
22.5°	640.0	637.5	636.3	635.0	635.0	636.3	636.3	637.5
25°	622.6	620.1	618.8	617.6	617.6	617.6	617.6	618.8
27.5°	603.8	600.1	597.6	597.6	596.4	596.4	596.4	597.6
30°	581.4	577.6	576.4	576.4	575.1	575.1	575.1	576.4
32.5°	558.9	556.4	555.2	553.9	552.7	553.9	552.7	553.9
35°	536.5	532.7	532.7	532.7	531.5	531.5	530.2	531.5
37.5°	514.0	510.3	509.0	509.0	507.8	507.8	507.8	509.0
40°	490.3	486.6	486.6	485.3	484.1	484.1	484.1	485.3
42.5°	465.4	462.9	461.6	461.6	460.4	460.4	460.4	460.4
45°	440.4	436.7	436.7	437.9	435.4	435.4	435.4	435.4
47.5°	415.4	413.0	413.0	413.0	410.5	410.5	410.5	410.5
50°	390.5	389.2	388.0	388.0	388.0	386.8	386.8	386.8
52.5°	365.5	364.3	363.1	364.3	361.8	361.8	361.8	361.8
55°	339.3	338.1	338.1	339.3	336.9	336.9	335.6	336.9
57.5°	310.7	309.4	309.4	309.4	309.4	308.2	308.2	308.2
60°	285.7	284.5	284.5	284.5	283.2	283.2	283.2	283.2
62.5°	259.5	259.5	259.5	258.3	258.3	257.0	257.0	258.3
65°	234.5	233.3	233.3	233.3	232.1	232.1	230.8	230.8
67.5°	208.3	208.3	208.3	207.1	207.1	205.9	205.9	207.1
70°	183.4	183.4	182.1	182.1	182.1	180.9	180.9	182.1
72.5°	158.4	157.2	157.2	155.9	157.2	154.7	154.7	155.9
75°	132.2	132.2	131.0	131.0	131.0	129.7	129.7	129.7
77.5°	107.3	107.3	106.0	106.0	106.0	104.8	104.8	104.8
80°	82.3	81.1	81.1	81.1	81.1	79.8	78.6	79.8
82.5°	56.1	56.1	56.1	56.1	54.9	53.6	52.4	53.6
85°	32.4	31.2	31.2	32.4	31.2	31.2	31.2	29.9
87.5°	11.2	10.0	10.0	10.0	10.0	11.2	10.0	10.0
90°	2.5	2.5	2.5	3.7	3.7	3.7	3.7	3.7
92.5°	12.5	12.5	11.2	11.2	11.2	11.2	10.0	10.0
95°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
97.5°	41.2	41.2	39.9	39.9	39.9	39.9	39.9	39.9
100°	51.2	52.4	52.4	52.4	53.6	53.6	53.6	53.6
102.5°	59.9	59.9	61.1	61.1	61.1	62.4	62.4	62.4
105°	68.6	69.9	69.9	69.9	71.1	71.1	72.4	72.4
107.5°	82.3	82.3	82.3	82.3	83.6	83.6	83.6	83.6
110°	101.1	101.1	99.8	98.6	98.6	98.6	97.3	97.3



TEST NUMBER: P303139

CATALOG NUMBER: CTW-F-5050-30L930-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	113.5	116.0	116.0	117.3	118.5	118.5	118.5	118.5
115°	123.5	126.0	127.3	128.5	129.7	129.7	131.0	131.0
117.5°	133.5	134.7	136.0	137.2	138.5	139.7	139.7	141.0
120°	143.5	144.7	146.0	146.0	147.2	148.5	148.5	148.5
122.5°	154.7	155.9	154.7	154.7	155.9	155.9	155.9	157.2
125°	169.7	168.4	167.2	167.2	165.9	165.9	165.9	165.9
127.5°	189.6	187.1	184.6	182.1	180.9	179.7	178.4	178.4
130°	214.6	209.6	205.9	203.4	200.9	198.4	195.9	195.9
132.5°	243.3	237.0	233.3	229.6	225.8	222.1	218.3	219.6
135°	273.2	268.2	263.2	259.5	254.5	249.5	247.0	247.0
137.5°	301.9	295.7	291.9	289.4	285.7	280.7	277.0	278.2
140°	334.4	323.1	320.6	318.1	314.4	309.4	306.9	306.9
142.5°	363.1	354.3	351.8	350.6	345.6	340.6	338.1	339.3
145°	391.7	383.0	381.8	379.3	375.5	370.5	368.0	368.0
147.5°	419.2	411.7	410.5	408.0	404.2	399.2	396.7	396.7
150°	446.6	439.2	436.7	435.4	431.7	426.7	424.2	425.4
152.5°	471.6	464.1	462.9	461.6	456.6	454.1	451.6	452.9
155°	495.3	487.8	486.6	485.3	482.8	479.1	477.8	479.1
157.5°	517.8	511.5	510.3	509.0	506.5	502.8	501.5	504.0
160°	539.0	534.0	532.7	531.5	530.2	527.7	525.2	526.5
162.5°	558.9	553.9	553.9	552.7	551.4	548.9	547.7	548.9
165°	577.6	573.9	572.6	571.4	570.2	568.9	567.7	566.4
167.5°	595.1	590.1	590.1	587.6	587.6	586.4	585.1	585.1
170°	610.1	606.3	606.3	603.8	603.8	602.6	601.3	601.3
172.5°	623.8	621.3	620.1	620.1	620.1	618.8	617.6	617.6
175°	637.5	635.0	633.8	632.5	632.5	631.3	630.0	631.3
177.5°	648.7	647.5	646.3	645.0	645.0	642.5	641.3	640.0
180°	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.7

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