

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: P303136

Luminaire Tested: **CTW-F-5050-30L830-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303136
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-5050-30L830-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 3000 LUMEN PACKAGE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

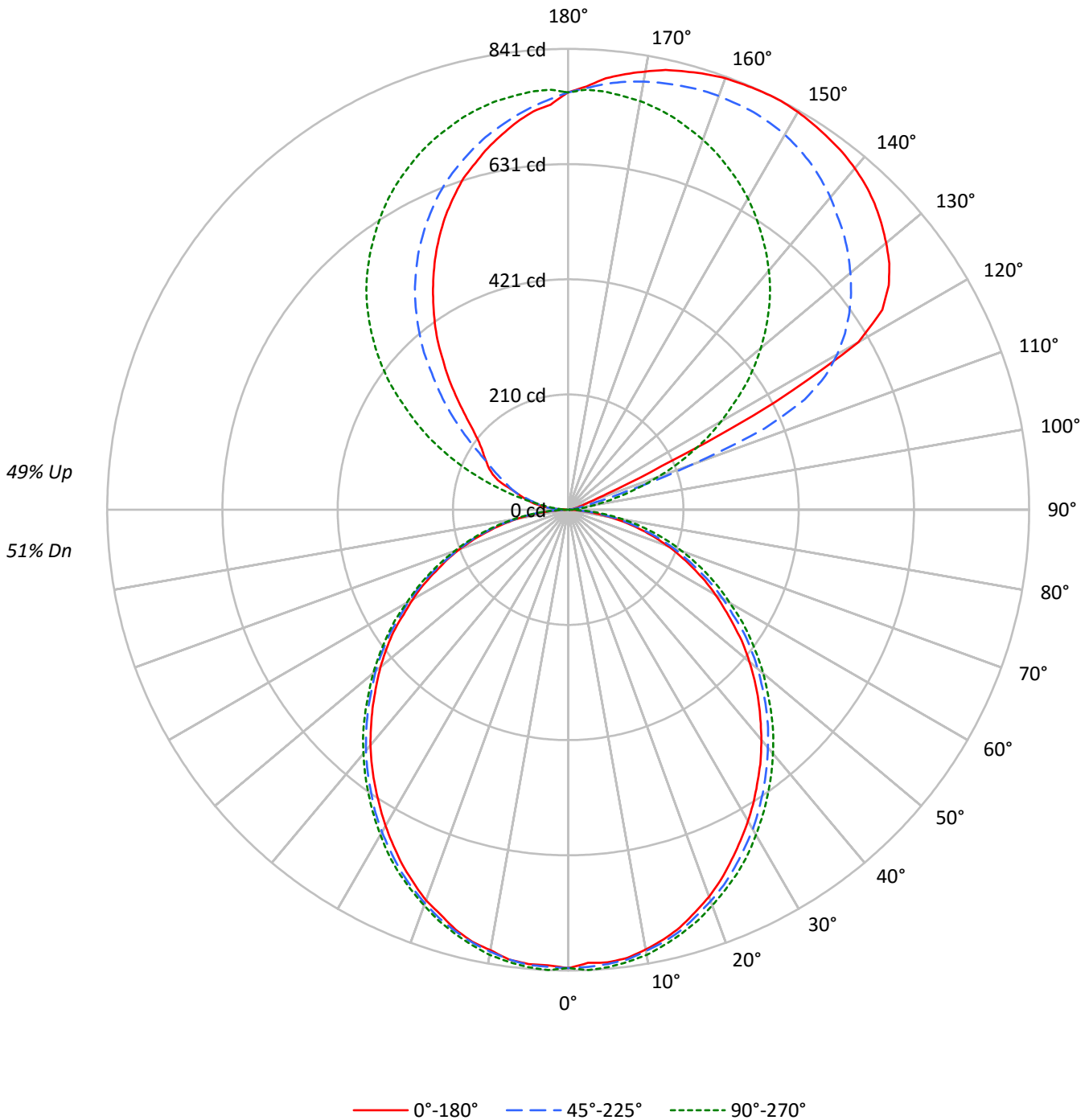
Lumens per Lamp: N/A
Luminaire Lumens: 4373.7 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: General Diffuse

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°	12005	12005	12005
5°	11947	12073	11989
10°	11876	12023	11896
15°	11722	11894	11787
20°	11476	11740	11588
25°	11169	11579	11329
30°	10875	11354	11042
35°	10563	11118	10765
40°	10269	10889	10512
45°	9953	10627	10217
50°	9628	10369	9983
55°	9238	10104	9743
60°	8901	9771	9398
65°	8524	9549	9060
70°	8111	9261	8837
75°	7436	8955	8318
80°	6314	8348	7629
85°	3804	7361	5698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	1.8
10°-20°	223.6	5.1
20°-30°	331.1	7.6
30°-40°	388.8	8.9
40°-50°	394.3	9.0
50°-60°	350.7	8.0
60°-70°	267.3	6.1
70°-80°	158.8	3.6
80°-90°	42.9	1.0
90°-100°	20.9	0.5
100°-110°	89.1	2.0
110°-120°	252.5	5.8
120°-130°	377.8	8.6
130°-140°	408.4	9.3
140°-150°	388.9	8.9
150°-160°	318.9	7.3
160°-170°	208.5	4.8
170°-180°	72.2	1.7
0°-30°	633.7	14.5
0°-40°	1022.5	23.4
0°-60°	1767.5	40.4
0°-90°	2236.5	51.1
90°-120°	362.5	8.3
90°-150°	1537.6	35.2
90°-180°	2137.0	48.9
0°-180°	4373.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	836	836	836	836	836	
5°	829	832	838	834	832	79
15°	789	795	800	796	793	222
25°	705	720	731	726	715	325
35°	603	622	635	627	614	378
45°	490	511	524	516	503	378
55°	369	391	404	398	389	331
65°	251	262	281	276	267	249
75°	134	143	162	156	150	142
85°	23	30	45	40	35	30
90°	1	1	1	3	4	1
95°	4	4	16	32	29	5
105°	20	52	102	78	84	24
115°	188	476	250	136	151	248
125°	714	626	394	221	192	630
135°	790	711	518	352	286	610
145°	828	772	614	488	426	519
155°	841	800	689	596	554	389
165°	828	800	741	679	655	235
175°	790	780	766	738	730	76
180°	762	762	762	762	762	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5
2.5°	827.9	827.9	832.2	833.7	833.7	835.1	836.5	838.0	838.0	838.0	835.1
5°	829.3	829.3	829.3	829.3	829.3	830.8	832.2	833.7	835.1	833.7	832.2
7.5°	825.0	825.0	825.0	825.0	823.6	825.0	825.0	827.9	827.9	827.9	827.9
10°	814.9	814.9	814.9	816.3	814.9	816.3	817.8	819.2	820.7	820.7	817.8
12.5°	803.4	803.4	803.4	804.8	803.4	803.4	806.2	806.2	809.1	807.7	807.7
15°	788.9	788.9	788.9	791.8	790.4	790.4	791.8	793.3	794.7	794.7	794.7
17.5°	770.2	770.2	773.1	774.5	773.1	774.5	774.5	776.0	778.8	778.8	777.4
20°	751.4	751.4	751.4	754.3	752.9	754.3	754.3	757.2	760.1	760.1	760.1
22.5°	729.8	728.4	729.8	731.2	731.2	732.7	732.7	735.6	738.5	739.9	741.3
25°	705.3	705.3	706.7	709.6	709.6	709.6	711.1	713.9	716.8	718.3	719.7
27.5°	680.8	680.8	682.2	685.1	686.5	686.5	686.5	690.9	695.2	696.6	696.6
30°	656.2	656.2	656.2	659.1	660.6	660.6	660.6	664.9	669.2	673.6	673.6
32.5°	630.3	630.3	630.3	634.6	636.1	636.1	636.1	638.9	643.3	646.2	647.6
35°	602.9	602.9	604.3	607.2	608.7	608.7	608.7	611.5	614.4	620.2	621.6
37.5°	576.9	575.5	576.9	579.8	581.2	581.2	579.8	584.1	588.5	592.8	594.2
40°	548.1	546.6	549.5	551.0	552.4	552.4	552.4	556.7	561.1	565.4	566.8
42.5°	519.2	519.2	520.7	522.1	523.6	523.6	525.0	527.9	530.8	536.5	539.4
45°	490.4	488.9	491.8	493.3	496.2	494.7	496.2	497.6	501.9	506.2	510.6
47.5°	461.5	461.5	461.5	463.0	465.9	467.3	467.3	468.7	473.1	477.4	480.3
50°	431.2	431.2	432.7	434.1	437.0	437.0	438.5	439.9	441.3	448.6	451.4
52.5°	402.4	402.4	402.4	403.8	408.2	408.2	408.2	411.1	413.9	416.8	421.2
55°	369.2	370.7	370.7	370.7	375.0	375.0	376.4	377.9	380.8	386.5	390.9
57.5°	338.9	340.4	340.4	341.8	343.3	344.7	346.2	346.2	349.0	351.9	356.2
60°	310.1	311.5	311.5	311.5	314.4	314.4	315.9	317.3	318.7	321.6	326.0
62.5°	281.2	281.2	281.2	281.2	284.1	284.1	285.6	288.5	288.5	291.3	295.7
65°	251.0	252.4	251.0	252.4	253.8	253.8	255.3	258.2	258.2	261.1	262.5
67.5°	222.1	222.1	222.1	223.6	223.6	225.0	225.0	227.9	229.3	230.8	232.2
70°	193.3	193.3	191.8	193.3	194.7	196.2	196.2	197.6	199.0	200.5	203.4
72.5°	163.0	163.0	163.0	164.4	164.4	165.9	165.9	168.7	170.2	171.6	173.1
75°	134.1	134.1	134.1	135.6	135.6	135.6	137.0	138.5	139.9	141.3	142.8
77.5°	105.3	105.3	105.3	106.7	105.3	106.7	106.7	109.6	111.1	112.5	113.9
80°	76.4	76.4	76.4	77.9	79.3	79.3	79.3	80.8	82.2	83.7	85.1
82.5°	49.0	47.6	47.6	49.0	50.5	50.5	51.9	51.9	53.4	54.8	57.7
85°	23.1	23.1	21.6	23.1	24.5	24.5	26.0	26.0	27.4	28.8	30.3
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3	4.3	4.3	5.8
90°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
92.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
95°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
97.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	8.7	8.7
100°	10.1	10.1	10.1	10.1	10.1	11.5	11.5	11.5	13.0	14.4	15.9
102.5°	14.4	14.4	14.4	14.4	15.9	15.9	15.9	17.3	18.7	23.1	27.4
105°	20.2	20.2	21.6	21.6	23.1	23.1	24.5	26.0	30.3	37.5	51.9
107.5°	28.8	28.8	30.3	30.3	33.2	34.6	37.5	41.8	53.4	75.0	111.1
110°	41.8	43.3	46.2	47.6	54.8	59.1	64.9	83.7	119.7	176.0	240.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	76.4	77.9	89.4	96.6	118.3	134.1	150.0	203.4	276.9	344.7	388.0
115°	187.5	196.2	212.0	240.9	287.0	320.2	350.5	409.6	457.2	474.5	476.0
117.5°	425.5	432.7	454.3	477.4	507.7	527.9	536.5	549.5	551.0	540.9	529.3
120°	611.5	611.5	611.5	617.3	617.3	620.2	615.9	610.1	597.1	581.2	566.8
122.5°	679.3	676.4	675.0	670.7	664.9	660.6	656.2	644.7	633.2	615.9	598.6
125°	713.9	709.6	708.2	702.4	693.7	690.9	685.1	673.6	660.6	643.3	626.0
127.5°	738.5	734.1	731.2	726.9	718.3	713.9	708.2	696.6	683.7	667.8	650.5
130°	757.2	752.9	750.0	747.1	737.0	734.1	728.4	716.8	703.8	689.4	672.1
132.5°	774.5	771.6	767.3	763.0	757.2	752.9	747.1	737.0	724.0	709.6	692.3
135°	790.4	786.1	783.2	780.3	771.6	768.7	763.0	752.9	741.3	725.5	711.1
137.5°	803.4	799.0	796.2	791.8	786.1	780.3	776.0	767.3	755.8	742.8	726.9
140°	813.5	809.1	806.2	801.9	796.2	791.8	787.5	780.3	770.2	757.2	744.2
142.5°	822.1	816.3	814.9	810.6	804.8	801.9	797.6	790.4	781.7	768.7	758.7
145°	827.9	823.6	822.1	817.8	813.5	809.1	807.7	801.9	791.8	778.8	771.6
147.5°	833.7	829.3	827.9	825.0	819.2	816.3	814.9	807.7	799.0	787.5	781.7
150°	838.0	833.7	832.2	829.3	823.6	822.1	820.7	814.9	806.2	794.7	790.4
152.5°	840.9	835.1	833.7	830.8	826.4	825.0	823.6	817.8	810.6	800.5	796.2
155°	840.9	836.5	835.1	832.2	827.9	826.4	823.6	819.2	812.0	804.8	800.5
157.5°	839.4	836.5	835.1	832.2	826.4	826.4	823.6	819.2	813.5	807.7	801.9
160°	838.0	833.7	833.7	830.8	826.4	826.4	823.6	820.7	813.5	809.1	803.4
162.5°	833.7	830.8	830.8	827.9	825.0	825.0	822.1	819.2	812.0	810.6	803.4
165°	827.9	825.0	825.0	823.6	819.2	819.2	817.8	813.5	809.1	807.7	800.5
167.5°	822.1	817.8	817.8	816.3	812.0	812.0	812.0	809.1	804.8	806.2	797.6
170°	812.0	807.7	807.7	806.2	804.8	804.8	804.8	801.9	797.6	800.5	793.3
172.5°	801.9	800.5	799.0	797.6	796.2	796.2	796.2	794.7	791.8	794.7	787.5
175°	790.4	787.5	787.5	786.1	786.1	786.1	786.1	786.1	783.2	787.5	780.3
177.5°	773.1	770.2	771.6	773.1	773.1	774.5	774.5	774.5	773.1	777.4	770.2
180°	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5
2.5°	832.2	835.1	833.7	833.7	833.7	833.7	833.7	835.1	839.4	840.9	840.9
5°	829.3	832.2	830.8	829.3	829.3	829.3	829.3	832.2	836.5	838.0	836.5
7.5°	823.6	826.4	825.0	823.6	825.0	825.0	825.0	827.9	832.2	832.2	832.2
10°	814.9	817.8	816.3	816.3	816.3	816.3	817.8	819.2	823.6	825.0	823.6
12.5°	804.8	806.2	804.8	806.2	806.2	806.2	806.2	807.7	812.0	813.5	813.5
15°	791.8	793.3	791.8	793.3	791.8	793.3	793.3	796.2	799.0	800.5	801.9
17.5°	776.0	776.0	776.0	777.4	777.4	777.4	777.4	780.3	784.6	786.1	786.1
20°	757.2	758.7	760.1	760.1	760.1	761.5	761.5	763.0	768.7	768.7	770.2
22.5°	739.9	739.9	741.3	741.3	742.8	742.8	742.8	744.2	750.0	750.0	750.0
25°	718.3	718.3	721.2	722.6	722.6	722.6	724.0	725.5	731.2	731.2	731.2
27.5°	695.2	695.2	699.5	698.1	699.5	701.0	702.4	705.3	708.2	709.6	709.6
30°	672.1	672.1	675.0	675.0	676.4	676.4	677.9	680.8	685.1	685.1	686.5
32.5°	649.0	649.0	650.5	651.9	653.4	651.9	653.4	656.2	660.6	660.6	662.0
35°	623.1	621.6	624.5	626.0	626.0	627.4	627.4	630.3	634.6	634.6	636.1
37.5°	597.1	595.7	598.6	600.0	601.4	601.4	601.4	604.3	607.2	608.7	610.1
40°	569.7	568.3	572.6	574.0	574.0	574.0	574.0	576.9	579.8	581.2	582.7
42.5°	539.4	540.9	543.7	546.6	546.6	546.6	548.1	548.1	552.4	553.8	555.3
45°	512.0	513.5	514.9	519.2	517.8	516.3	519.2	519.2	523.6	523.6	525.0
47.5°	483.2	484.6	484.6	488.9	488.9	487.5	490.4	490.4	493.3	493.3	496.2
50°	454.3	455.8	455.8	460.1	460.1	458.7	461.5	461.5	464.4	464.4	467.3
52.5°	422.6	425.5	425.5	429.8	431.2	429.8	431.2	431.2	434.1	434.1	437.0
55°	392.3	395.2	396.6	398.1	401.0	399.5	401.0	402.4	405.3	403.8	406.7
57.5°	360.6	360.6	363.5	364.9	366.3	366.3	370.7	369.2	369.2	373.6	375.0
60°	328.8	330.3	333.2	334.6	336.1	336.1	337.5	338.9	340.4	340.4	343.3
62.5°	298.6	301.4	302.9	304.3	305.8	304.3	308.7	310.1	311.5	311.5	311.5
65°	268.3	269.7	272.6	274.0	274.0	274.0	278.4	279.8	279.8	281.2	281.2
67.5°	236.5	239.4	242.3	242.3	245.2	243.7	248.1	249.5	249.5	251.0	252.4
70°	206.2	207.7	210.6	212.0	214.9	213.5	216.3	217.8	219.2	220.7	222.1
72.5°	176.0	177.4	180.3	181.7	183.2	184.6	186.1	188.9	190.4	191.8	191.8
75°	145.7	147.1	150.0	151.4	152.9	154.3	155.8	158.7	158.7	161.5	161.5
77.5°	116.8	118.3	119.7	121.2	124.0	125.5	126.9	128.4	129.8	131.2	131.2
80°	88.0	88.0	90.9	92.3	95.2	95.2	96.6	98.1	101.0	101.0	101.0
82.5°	59.1	60.6	62.0	63.5	66.3	66.3	67.8	70.7	72.1	72.1	72.1
85°	31.7	33.2	36.1	37.5	38.9	38.9	41.8	43.3	44.7	44.7	44.7
87.5°	7.2	8.7	10.1	11.5	14.4	15.9	15.9	17.3	18.7	18.7	18.7
90°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
92.5°	2.9	2.9	2.9	2.9	2.9	4.3	5.8	7.2	7.2	5.8	7.2
95°	5.8	5.8	7.2	10.1	13.0	14.4	20.2	21.6	18.7	15.9	15.9
97.5°	10.1	13.0	17.3	26.0	31.7	36.1	43.3	40.4	34.6	30.3	27.4
100°	20.2	27.4	37.5	54.8	63.5	70.7	73.6	66.3	57.7	49.0	43.3
102.5°	36.1	54.8	77.9	105.3	113.9	116.8	115.4	101.0	86.5	72.1	63.5
105°	75.0	109.6	150.0	170.2	174.5	171.6	157.2	141.3	121.2	102.4	88.0
107.5°	161.5	210.6	236.5	239.4	235.1	226.4	204.8	183.2	158.7	137.0	116.8
110°	287.0	313.0	313.0	300.0	288.5	278.4	251.0	226.4	199.0	173.1	151.4



TEST NUMBER: P303136

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	395.2	390.9	372.1	349.0	336.1	323.1	294.2	268.3	238.0	212.0	186.1
115°	463.0	442.8	419.7	393.7	379.3	363.5	337.5	307.2	275.5	249.5	222.1
117.5°	507.7	484.6	458.7	434.1	419.7	408.2	377.9	343.3	314.4	287.0	259.6
120°	543.7	519.2	494.7	470.2	457.2	444.2	412.5	382.2	349.0	321.6	295.7
122.5°	574.0	551.0	526.4	503.4	490.4	476.0	447.1	416.8	389.4	356.2	331.7
125°	604.3	582.7	556.7	535.1	520.7	504.8	478.8	448.6	421.2	393.7	367.8
127.5°	630.3	608.7	587.0	562.5	548.1	533.7	507.7	478.8	452.9	426.9	402.4
130°	653.4	634.6	611.5	587.0	572.6	559.6	533.7	507.7	483.2	458.7	434.1
132.5°	677.9	656.2	634.6	610.1	597.1	584.1	561.1	536.5	512.0	488.9	465.9
135°	698.1	676.4	653.4	628.8	618.7	607.2	585.6	562.5	539.4	517.8	496.2
137.5°	716.8	692.3	670.7	647.6	638.9	628.8	607.2	585.6	565.4	545.2	523.6
140°	731.2	706.7	686.5	666.3	657.7	647.6	626.0	608.7	589.9	569.7	549.5
142.5°	742.8	719.7	699.5	682.2	673.6	666.3	646.2	628.8	611.5	592.8	574.0
145°	752.9	732.7	713.9	696.6	690.9	682.2	663.5	649.0	633.2	614.4	597.1
147.5°	761.5	744.2	726.9	711.1	703.8	696.6	679.3	666.3	650.5	636.1	618.7
150°	770.2	754.3	738.5	724.0	718.3	711.1	693.7	682.2	670.7	656.2	640.4
152.5°	776.0	761.5	747.1	735.6	729.8	724.0	708.2	699.5	686.5	673.6	659.1
155°	781.7	768.7	755.8	745.7	741.3	735.6	722.6	713.9	702.4	689.4	676.4
157.5°	786.1	774.5	763.0	754.3	750.0	745.7	732.7	726.9	716.8	705.3	692.3
160°	787.5	777.4	768.7	761.5	757.2	752.9	742.8	737.0	728.4	718.3	706.7
162.5°	787.5	780.3	771.6	767.3	763.0	758.7	750.0	745.7	738.5	729.8	719.7
165°	787.5	781.7	774.5	770.2	767.3	764.4	757.2	752.9	745.7	741.3	731.2
167.5°	787.5	781.7	776.0	773.1	770.2	767.3	763.0	760.1	754.3	750.0	741.3
170°	784.6	778.8	776.0	774.5	771.6	770.2	765.9	764.4	760.1	757.2	750.0
172.5°	780.3	776.0	774.5	773.1	771.6	770.2	767.3	765.9	763.0	761.5	757.2
175°	774.5	771.6	770.2	770.2	770.2	768.7	765.9	767.3	765.9	765.9	761.5
177.5°	765.9	764.4	764.4	764.4	765.9	764.4	764.4	765.9	765.9	767.3	764.4
180°	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5



TEST NUMBER: P303136

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5
2.5°	839.4	836.5	835.1	835.1	833.7	830.8	830.8	832.2	835.1	840.9	836.5
5°	836.5	835.1	830.8	830.8	830.8	829.3	826.4	829.3	833.7	838.0	832.2
7.5°	830.8	829.3	826.4	826.4	826.4	823.6	822.1	825.0	827.9	830.8	826.4
10°	823.6	820.7	819.2	817.8	817.8	814.9	813.5	816.3	819.2	822.1	819.2
12.5°	813.5	810.6	807.7	807.7	806.2	804.8	803.4	806.2	809.1	812.0	809.1
15°	800.5	797.6	794.7	794.7	794.7	790.4	790.4	791.8	796.2	797.6	793.3
17.5°	786.1	781.7	778.8	780.3	778.8	774.5	776.0	776.0	781.7	781.7	778.8
20°	768.7	764.4	763.0	763.0	761.5	758.7	758.7	760.1	764.4	763.0	760.1
22.5°	750.0	745.7	745.7	744.2	744.2	739.9	739.9	741.3	745.7	742.8	739.9
25°	729.8	726.9	725.5	725.5	722.6	719.7	719.7	721.2	725.5	721.2	719.7
27.5°	706.7	705.3	703.8	703.8	701.0	698.1	699.5	699.5	702.4	699.5	696.6
30°	685.1	682.2	680.8	680.8	677.9	673.6	675.0	675.0	679.3	675.0	675.0
32.5°	662.0	657.7	657.7	656.2	653.4	650.5	651.9	653.4	654.8	649.0	650.5
35°	636.1	631.7	631.7	630.3	627.4	626.0	626.0	627.4	627.4	623.1	623.1
37.5°	610.1	607.2	605.8	604.3	601.4	600.0	601.4	602.9	601.4	597.1	597.1
40°	582.7	579.8	576.9	576.9	575.5	574.0	574.0	576.9	574.0	569.7	569.7
42.5°	555.3	552.4	549.5	549.5	548.1	548.1	548.1	549.5	545.2	543.7	540.9
45°	526.4	523.6	520.7	520.7	519.2	519.2	519.2	519.2	516.3	514.9	513.5
47.5°	497.6	494.7	491.8	491.8	490.4	491.8	491.8	490.4	486.1	486.1	484.6
50°	468.7	465.9	463.0	463.0	463.0	463.0	463.0	461.5	458.7	457.2	455.8
52.5°	438.5	435.6	432.7	434.1	432.7	434.1	432.7	431.2	428.4	426.9	425.5
55°	408.2	405.3	403.8	405.3	403.8	403.8	402.4	401.0	398.1	398.1	395.2
57.5°	376.4	372.1	372.1	373.6	372.1	372.1	369.2	367.8	364.9	364.9	362.0
60°	343.3	341.8	341.8	341.8	341.8	340.4	338.9	338.9	336.1	334.6	331.7
62.5°	313.0	313.0	311.5	313.0	310.1	310.1	308.7	307.2	305.8	304.3	302.9
65°	282.7	281.2	281.2	279.8	279.8	279.8	278.4	276.9	275.5	274.0	272.6
67.5°	251.0	251.0	251.0	251.0	249.5	249.5	248.1	246.6	243.7	245.2	242.3
70°	220.7	220.7	220.7	220.7	219.2	219.2	217.8	216.3	213.5	214.9	213.5
72.5°	190.4	190.4	190.4	190.4	188.9	188.9	186.1	186.1	186.1	184.6	183.2
75°	160.1	160.1	160.1	158.7	158.7	158.7	155.8	155.8	155.8	155.8	152.9
77.5°	129.8	131.2	129.8	129.8	128.4	128.4	128.4	126.9	126.9	125.5	124.0
80°	99.5	101.0	101.0	101.0	99.5	99.5	99.5	98.1	96.6	96.6	95.2
82.5°	73.6	72.1	72.1	72.1	70.7	70.7	70.7	69.2	69.2	67.8	66.3
85°	44.7	44.7	44.7	44.7	43.3	43.3	41.8	40.4	40.4	37.5	37.5
87.5°	20.2	18.7	18.7	18.7	18.7	17.3	15.9	14.4	14.4	13.0	13.0
90°	1.4	1.4	2.9	1.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9
92.5°	10.1	13.0	14.4	15.9	14.4	15.9	15.9	15.9	14.4	14.4	14.4
95°	17.3	20.2	24.5	26.0	27.4	30.3	31.7	31.7	31.7	30.3	30.3
97.5°	27.4	30.3	31.7	33.2	33.2	37.5	40.4	43.3	46.2	46.2	47.6
100°	41.8	40.4	43.3	46.2	46.2	46.2	47.6	50.5	53.4	54.8	57.7
102.5°	59.1	54.8	54.8	56.2	57.7	62.0	60.6	62.0	63.5	64.9	66.3
105°	79.3	75.0	70.7	70.7	70.7	73.6	77.9	80.8	77.9	77.9	79.3
107.5°	105.3	96.6	89.4	88.0	88.0	86.5	89.4	93.7	96.6	98.1	96.6
110°	134.1	121.2	113.9	106.7	105.3	103.8	103.8	105.3	109.6	113.9	116.8



TEST NUMBER: P303136

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	167.3	151.4	138.5	132.7	126.9	121.2	119.7	119.7	121.2	125.5	128.4
115°	201.9	183.2	165.9	158.7	154.3	142.8	137.0	134.1	135.6	137.0	139.9
117.5°	238.0	217.8	197.6	188.9	183.2	170.2	158.7	154.3	151.4	150.0	152.9
120°	274.0	253.8	233.7	222.1	213.5	199.0	186.1	174.5	168.7	165.9	164.4
122.5°	308.7	288.5	268.3	256.7	248.1	229.3	216.3	201.9	191.8	184.6	180.3
125°	343.3	323.1	302.9	291.3	282.7	262.5	246.6	233.7	220.7	209.1	200.5
127.5°	377.9	356.2	336.1	326.0	317.3	295.7	278.4	265.4	252.4	239.4	227.9
130°	412.5	393.7	372.1	359.1	351.9	330.3	313.0	297.1	285.6	272.6	258.2
132.5°	442.8	425.5	405.3	395.2	385.1	363.5	349.0	331.7	318.7	305.8	292.8
135°	474.5	455.8	435.6	426.9	418.3	401.0	383.7	366.3	351.9	338.9	326.0
137.5°	501.9	486.1	465.9	457.2	448.6	432.7	416.8	403.8	389.4	375.0	359.1
140°	529.3	512.0	494.7	486.1	477.4	464.4	448.6	437.0	422.6	411.1	395.2
142.5°	553.8	536.5	522.1	513.5	504.8	491.8	477.4	467.3	455.8	442.8	432.7
145°	578.4	562.5	548.1	539.4	532.2	519.2	504.8	497.6	487.5	474.5	463.0
147.5°	600.0	585.6	571.2	563.9	558.2	545.2	533.7	525.0	516.3	504.8	494.7
150°	621.6	607.2	594.2	588.5	581.2	571.2	561.1	551.0	545.2	533.7	525.0
152.5°	641.8	628.8	615.9	611.5	605.8	594.2	584.1	575.5	571.2	561.1	553.8
155°	662.0	649.0	636.1	633.2	627.4	617.3	607.2	600.0	595.7	585.6	578.4
157.5°	679.3	666.3	656.2	651.9	646.2	637.5	628.8	623.1	620.2	611.5	604.3
160°	695.2	683.7	673.6	669.2	664.9	656.2	650.5	643.3	641.8	634.6	628.8
162.5°	708.2	698.1	689.4	686.5	682.2	675.0	669.2	662.0	660.6	656.2	650.5
165°	721.2	711.1	703.8	701.0	698.1	690.9	686.5	680.8	679.3	676.4	670.7
167.5°	732.7	724.0	716.8	715.4	712.5	706.7	703.8	698.1	696.6	695.2	689.4
170°	741.3	734.1	728.4	726.9	724.0	719.7	716.8	712.5	711.1	712.5	706.7
172.5°	748.6	742.8	738.5	737.0	735.6	732.7	729.8	726.9	725.5	728.4	722.6
175°	755.8	750.0	747.1	745.7	745.7	742.8	741.3	738.5	738.5	741.3	737.0
177.5°	760.1	755.8	752.9	752.9	751.4	750.0	750.0	747.1	750.0	752.9	748.6
180°	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5



TEST NUMBER: P303136

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5
2.5°	839.4	836.5	836.5	835.1	833.7	832.2	832.2	832.2
5°	835.1	833.7	832.2	829.3	829.3	830.8	832.2	832.2
7.5°	827.9	827.9	826.4	825.0	823.6	826.4	826.4	827.9
10°	820.7	819.2	817.8	816.3	814.9	816.3	816.3	816.3
12.5°	809.1	807.7	806.2	803.4	803.4	804.8	804.8	807.7
15°	796.2	794.7	791.8	791.8	790.4	791.8	791.8	793.3
17.5°	780.3	777.4	776.0	774.5	774.5	776.0	776.0	774.5
20°	761.5	758.7	755.8	754.3	754.3	755.8	755.8	758.7
22.5°	739.9	737.0	735.6	734.1	734.1	735.6	735.6	737.0
25°	719.7	716.8	715.4	713.9	713.9	713.9	713.9	715.4
27.5°	698.1	693.7	690.9	690.9	689.4	689.4	689.4	690.9
30°	672.1	667.8	666.3	666.3	664.9	664.9	664.9	666.3
32.5°	646.2	643.3	641.8	640.4	638.9	640.4	638.9	640.4
35°	620.2	615.9	615.9	615.9	614.4	614.4	613.0	614.4
37.5°	594.2	589.9	588.5	588.5	587.0	587.0	587.0	588.5
40°	566.8	562.5	562.5	561.1	559.6	559.6	559.6	561.1
42.5°	538.0	535.1	533.7	533.7	532.2	532.2	532.2	532.2
45°	509.1	504.8	504.8	506.2	503.4	503.4	503.4	503.4
47.5°	480.3	477.4	477.4	477.4	474.5	474.5	474.5	474.5
50°	451.4	450.0	448.6	448.6	448.6	447.1	447.1	447.1
52.5°	422.6	421.2	419.7	421.2	418.3	418.3	418.3	418.3
55°	392.3	390.9	390.9	392.3	389.4	389.4	388.0	389.4
57.5°	359.1	357.7	357.7	357.7	357.7	356.2	356.2	356.2
60°	330.3	328.8	328.8	328.8	327.4	327.4	327.4	327.4
62.5°	300.0	300.0	300.0	298.6	298.6	297.1	297.1	298.6
65°	271.2	269.7	269.7	269.7	268.3	268.3	266.8	266.8
67.5°	240.9	240.9	240.9	239.4	239.4	238.0	238.0	239.4
70°	212.0	212.0	210.6	210.6	210.6	209.1	209.1	210.6
72.5°	183.2	181.7	181.7	180.3	181.7	178.8	178.8	180.3
75°	152.9	152.9	151.4	151.4	151.4	150.0	150.0	150.0
77.5°	124.0	124.0	122.6	122.6	122.6	121.2	121.2	121.2
80°	95.2	93.7	93.7	93.7	93.7	92.3	90.9	92.3
82.5°	64.9	64.9	64.9	64.9	63.5	62.0	60.6	62.0
85°	37.5	36.1	36.1	37.5	36.1	36.1	36.1	34.6
87.5°	13.0	11.5	11.5	11.5	11.5	13.0	11.5	11.5
90°	2.9	2.9	2.9	4.3	4.3	4.3	4.3	4.3
92.5°	14.4	14.4	13.0	13.0	13.0	13.0	11.5	11.5
95°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
97.5°	47.6	47.6	46.2	46.2	46.2	46.2	46.2	46.2
100°	59.1	60.6	60.6	60.6	62.0	62.0	62.0	62.0
102.5°	69.2	69.2	70.7	70.7	70.7	72.1	72.1	72.1
105°	79.3	80.8	80.8	80.8	82.2	82.2	83.7	83.7
107.5°	95.2	95.2	95.2	95.2	96.6	96.6	96.6	96.6
110°	116.8	116.8	115.4	113.9	113.9	113.9	112.5	112.5



TEST NUMBER: P303136

CATALOG NUMBER: CTW-F-5050-30L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	131.2	134.1	134.1	135.6	137.0	137.0	137.0	137.0
115°	142.8	145.7	147.1	148.6	150.0	150.0	151.4	151.4
117.5°	154.3	155.8	157.2	158.7	160.1	161.5	161.5	163.0
120°	165.9	167.3	168.7	168.7	170.2	171.6	171.6	171.6
122.5°	178.8	180.3	178.8	178.8	180.3	180.3	180.3	181.7
125°	196.2	194.7	193.3	193.3	191.8	191.8	191.8	191.8
127.5°	219.2	216.3	213.5	210.6	209.1	207.7	206.2	206.2
130°	248.1	242.3	238.0	235.1	232.2	229.3	226.4	226.4
132.5°	281.2	274.0	269.7	265.4	261.1	256.7	252.4	253.8
135°	315.9	310.1	304.3	300.0	294.2	288.5	285.6	285.6
137.5°	349.0	341.8	337.5	334.6	330.3	324.5	320.2	321.6
140°	386.5	373.6	370.7	367.8	363.5	357.7	354.8	354.8
142.5°	419.7	409.6	406.7	405.3	399.5	393.7	390.9	392.3
145°	452.9	442.8	441.3	438.5	434.1	428.4	425.5	425.5
147.5°	484.6	476.0	474.5	471.6	467.3	461.5	458.7	458.7
150°	516.3	507.7	504.8	503.4	499.0	493.3	490.4	491.8
152.5°	545.2	536.5	535.1	533.7	527.9	525.0	522.1	523.6
155°	572.6	563.9	562.5	561.1	558.2	553.8	552.4	553.8
157.5°	598.6	591.3	589.9	588.5	585.6	581.2	579.8	582.7
160°	623.1	617.3	615.9	614.4	613.0	610.1	607.2	608.7
162.5°	646.2	640.4	640.4	638.9	637.5	634.6	633.2	634.6
165°	667.8	663.5	662.0	660.6	659.1	657.7	656.2	654.8
167.5°	688.0	682.2	682.2	679.3	679.3	677.9	676.4	676.4
170°	705.3	701.0	701.0	698.1	698.1	696.6	695.2	695.2
172.5°	721.2	718.3	716.8	716.8	716.8	715.4	713.9	713.9
175°	737.0	734.1	732.7	731.2	731.2	729.8	728.4	729.8
177.5°	750.0	748.6	747.1	745.7	745.7	742.8	741.3	739.9
180°	761.5	761.5	761.5	761.5	761.5	761.5	761.5	761.5

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