

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: P303151

Luminaire Tested: **CTW-F-5050-40L935-UNV-STD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-5050-40L935-UNV-STD-4
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 4000 LUMEN PACKAGE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

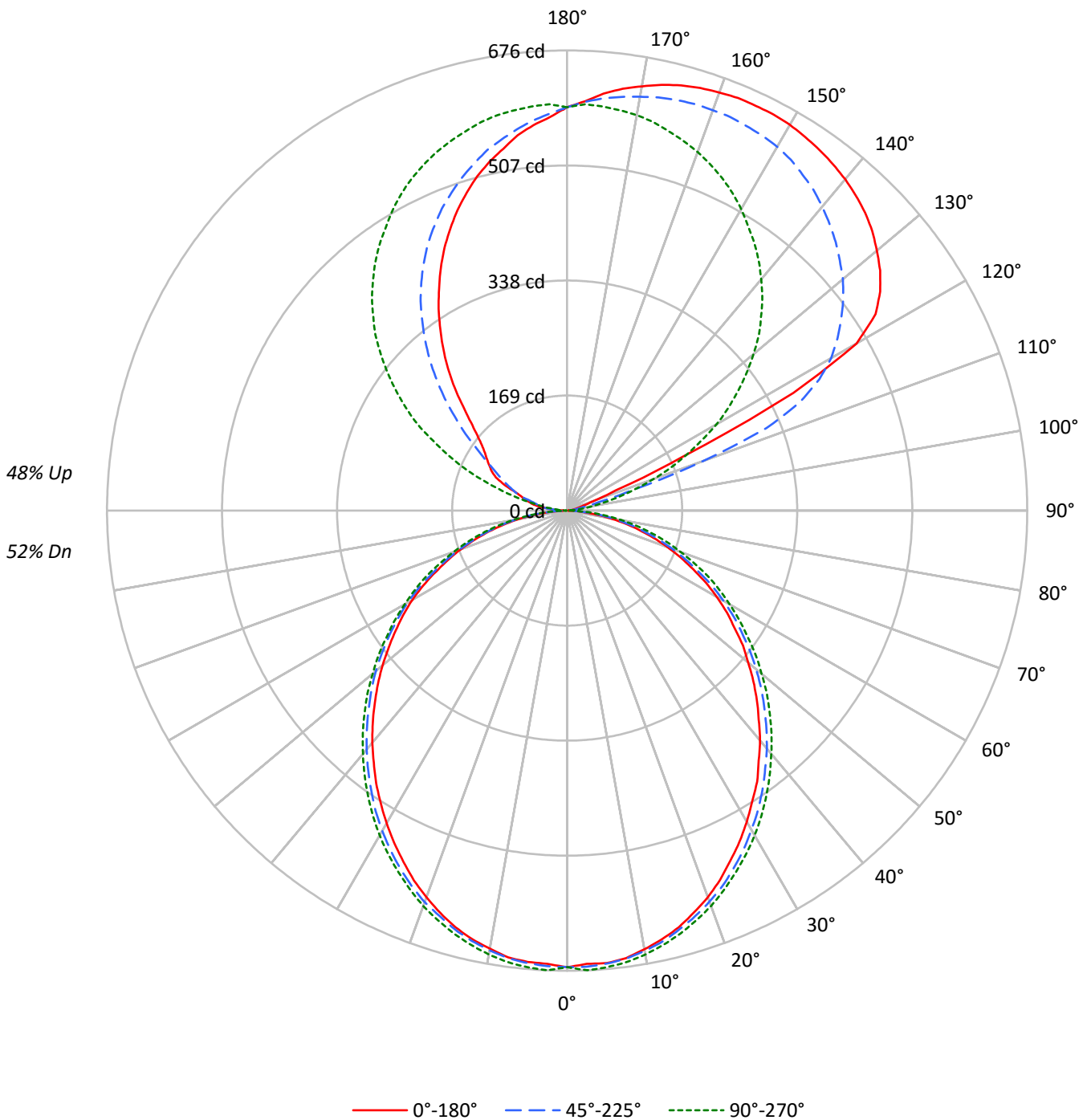
Lumens per Lamp: N/A
Luminaire Lumens: 3467.1 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 4' x L: 0.12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 32.1
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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52				
1	98	94	90	86	90	87	83	80	74	71	69	62	60	58	51	50	48	43				
2	89	82	75	70	82	76	70	66	64	60	57	54	51	49	45	42	41	36				
3	81	72	64	58	75	67	60	55	57	52	48	48	44	41	39	37	34	30				
4	74	63	55	49	68	59	52	46	50	45	41	42	38	35	35	32	30	26				
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	32	28	26	23				
6	63	51	42	37	58	47	40	34	41	35	30	34	30	27	29	25	23	20				
7	58	46	38	32	54	43	35	30	37	31	27	31	27	23	26	23	20	18				
8	54	41	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14				
10	47	35	27	23	43	33	26	21	28	23	19	24	20	17	21	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	14439	14439	14439
5°	14420	14550	14384
10°	14305	14473	14285
15°	14123	14335	14123
20°	13846	14163	13846
25°	13478	13927	13518
30°	13120	13697	13185
35°	12786	13419	12851
40°	12388	13115	12508
45°	12004	12817	12163
50°	11622	12486	11853
55°	11245	12149	11538
60°	10936	11862	11306
65°	10397	11624	10835
70°	9863	11166	10461
75°	9091	10746	9881
80°	7798	10029	8963
85°	4891	8719	6817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	1.8
10°-20°	179.2	5.2
20°-30°	265.3	7.7
30°-40°	311.4	9.0
40°-50°	315.7	9.1
50°-60°	281.6	8.1
60°-70°	214.9	6.2
70°-80°	126.9	3.7
80°-90°	34.2	1.0
90°-100°	17.3	0.5
100°-110°	71.8	2.1
110°-120°	202.5	5.8
120°-130°	295.3	8.5
130°-140°	318.0	9.2
140°-150°	302.6	8.7
150°-160°	248.3	7.2
160°-170°	162.4	4.7
170°-180°	56.3	1.6
0°-30°	507.8	14.6
0°-40°	819.3	23.6
0°-60°	1416.6	40.9
0°-90°	1792.7	51.7
90°-120°	291.6	8.4
90°-150°	1207.4	34.8
90°-180°	1674.0	48.3
0°-180°	3467.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	671	671	671	671	671	
5°	667	668	673	667	666	63
15°	634	637	643	637	634	178
25°	567	580	586	580	569	262
35°	486	500	511	502	489	304
45°	394	410	421	412	400	304
55°	300	313	324	319	307	269
65°	204	214	228	219	213	203
75°	109	116	129	122	119	115
85°	20	25	35	31	28	25
90°	1	1	1	3	5	1
95°	4	5	13	24	22	5
105°	19	48	79	57	65	22
115°	188	377	193	103	115	222
125°	561	492	306	166	147	497
135°	619	558	403	270	216	478
145°	647	603	480	375	325	406
155°	656	623	539	462	426	303
165°	647	624	577	528	509	183
175°	615	608	596	575	568	59
180°	592	592	592	592	592	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7
2.5°	666.4	665.6	667.3	669.0	669.0	669.9	670.7	671.6	671.6	673.3	670.7
5°	667.3	665.6	666.4	666.4	665.6	666.4	667.3	669.0	669.0	670.7	668.1
7.5°	663.0	662.1	663.0	662.1	661.2	662.1	663.0	663.8	663.8	665.6	663.8
10°	654.4	654.4	654.4	654.4	654.4	655.2	656.1	656.9	656.9	658.7	656.9
12.5°	644.9	644.9	644.9	645.8	644.0	644.9	646.6	648.3	648.3	650.1	648.3
15°	633.7	633.7	634.6	635.4	634.6	634.6	635.4	637.1	637.1	638.9	637.1
17.5°	619.1	619.1	619.9	621.6	620.8	621.6	622.5	624.2	625.1	625.1	625.1
20°	604.4	603.6	604.4	605.3	605.3	606.1	606.1	608.7	610.4	610.4	611.3
22.5°	587.2	585.5	587.2	588.1	588.1	588.9	588.9	591.5	593.2	594.1	596.7
25°	567.4	567.4	568.3	570.0	570.0	570.8	571.7	574.3	576.0	576.0	579.5
27.5°	548.5	547.6	548.5	550.2	551.9	552.8	552.8	555.3	557.9	559.7	561.4
30°	527.8	527.8	528.7	530.4	532.1	531.2	532.1	535.5	538.1	539.8	541.6
32.5°	506.3	506.3	507.1	508.9	511.4	511.4	512.3	514.9	516.6	518.3	521.8
35°	486.5	484.7	485.6	487.3	490.8	489.9	490.8	493.4	495.1	497.7	500.2
37.5°	462.4	462.4	463.2	464.9	468.4	467.5	469.2	471.0	473.6	476.1	477.9
40°	440.8	441.7	440.8	442.6	445.1	446.0	446.0	447.7	451.2	453.7	456.3
42.5°	416.7	417.6	418.4	420.2	422.8	422.8	423.6	425.3	427.9	430.5	433.1
45°	394.3	394.3	394.3	396.1	399.5	399.5	401.2	401.2	403.8	407.3	409.8
47.5°	371.1	371.1	371.1	373.7	376.3	376.3	378.0	378.0	381.4	384.0	386.6
50°	347.0	348.7	347.8	349.6	353.0	352.1	353.9	353.9	356.5	359.9	362.5
52.5°	325.5	325.5	323.7	326.3	328.9	328.9	329.8	329.8	333.2	335.8	338.4
55°	299.6	301.4	299.6	302.2	304.8	304.8	306.5	306.5	307.4	310.8	313.4
57.5°	278.1	278.1	276.4	278.1	280.7	280.7	282.4	282.4	284.1	285.9	290.2
60°	254.0	253.1	252.3	254.9	256.6	256.6	258.3	258.3	260.0	260.9	265.2
62.5°	229.9	229.0	229.0	230.7	232.5	231.6	234.2	234.2	235.9	237.6	240.2
65°	204.1	203.2	203.2	204.9	205.8	205.8	207.5	208.4	209.2	211.8	213.5
67.5°	180.8	179.9	179.1	180.8	181.7	181.7	183.4	184.3	186.0	186.8	188.6
70°	156.7	155.8	155.0	156.7	158.4	157.6	159.3	160.1	161.0	162.7	164.5
72.5°	132.6	132.6	132.6	133.5	134.3	134.3	135.2	136.0	137.8	139.5	140.3
75°	109.3	108.5	108.5	110.2	110.2	110.2	111.9	112.8	112.8	115.4	116.2
77.5°	86.1	87.0	86.1	86.1	86.1	87.0	87.8	88.7	90.4	92.1	93.0
80°	62.9	63.7	62.9	63.7	62.9	63.7	65.4	65.4	67.2	68.9	69.7
82.5°	40.5	41.3	40.5	41.3	41.3	41.3	42.2	43.1	44.8	45.6	47.4
85°	19.8	18.9	19.8	19.8	19.8	19.8	21.5	21.5	23.2	24.1	25.0
87.5°	2.6	2.6	2.6	2.6	3.4	2.6	3.4	4.3	4.3	5.2	5.2
90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
92.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
95°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.2	5.2
97.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.7	7.7	8.6	9.5
100°	9.5	9.5	10.3	10.3	10.3	10.3	10.3	11.2	12.1	13.8	15.5
102.5°	13.8	13.8	13.8	14.6	14.6	15.5	15.5	17.2	18.9	21.5	26.7
105°	18.9	19.8	19.8	19.8	21.5	21.5	22.4	25.0	29.3	36.2	48.2
107.5°	26.7	27.6	27.6	29.3	31.0	32.7	34.4	42.2	52.5	73.2	103.3
110°	41.3	42.2	43.1	47.4	53.4	58.5	65.4	85.2	116.2	161.9	211.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	77.5	81.8	87.0	99.0	119.7	132.6	147.2	198.9	248.8	292.7	316.8
115°	187.7	198.9	210.1	236.8	272.1	292.7	307.4	352.1	373.7	382.3	377.1
117.5°	374.5	384.0	391.8	406.4	423.6	429.6	432.2	441.7	437.4	430.5	417.6
120°	490.8	494.2	493.4	493.4	493.4	490.8	489.0	483.0	472.7	462.4	447.7
122.5°	537.3	538.1	534.7	530.4	525.2	522.6	519.2	509.7	498.5	486.5	471.0
125°	561.4	561.4	557.9	553.6	547.6	544.2	539.0	530.4	519.2	507.1	491.6
127.5°	579.5	578.6	576.0	572.6	565.7	563.1	557.9	548.5	537.3	526.9	511.4
130°	594.1	593.2	589.8	588.1	582.0	577.7	573.4	564.0	552.8	542.4	528.7
132.5°	607.9	606.1	602.7	601.0	595.0	591.5	587.2	578.6	567.4	557.9	543.3
135°	619.1	616.5	613.9	612.2	607.0	602.7	599.3	590.6	581.2	570.8	557.9
137.5°	627.7	625.9	622.5	620.8	615.6	612.2	608.7	601.8	593.2	582.9	570.8
140°	635.4	632.8	631.1	628.5	624.2	620.8	617.3	611.3	602.7	594.1	582.9
142.5°	641.4	639.7	638.0	636.3	631.1	628.5	625.1	619.9	613.0	604.4	594.1
145°	646.6	644.9	643.2	641.4	637.1	634.6	632.0	626.8	620.8	612.2	602.7
147.5°	650.9	649.2	647.5	646.6	642.3	639.7	637.1	633.7	626.8	618.2	611.3
150°	654.4	652.6	650.9	649.2	645.8	643.2	642.3	638.0	631.1	624.2	617.3
152.5°	656.1	654.4	653.5	651.8	648.3	645.8	644.9	640.6	634.6	626.8	620.8
155°	656.1	655.2	653.5	652.6	648.3	645.8	644.9	640.6	635.4	628.5	623.4
157.5°	656.1	654.4	653.5	651.8	647.5	645.8	644.9	641.4	637.1	631.1	625.9
160°	653.5	652.6	651.8	650.1	646.6	644.9	644.9	641.4	637.1	632.0	625.9
162.5°	650.9	649.2	648.3	647.5	644.9	644.0	643.2	640.6	636.3	632.0	625.9
165°	646.6	645.8	644.0	643.2	640.6	639.7	638.9	637.1	632.8	630.3	624.2
167.5°	640.6	638.9	638.0	636.3	633.7	633.7	633.7	632.0	629.4	627.7	621.6
170°	632.8	631.1	630.3	629.4	627.7	627.7	627.7	626.8	624.2	623.4	617.3
172.5°	625.1	624.2	623.4	622.5	619.9	619.9	619.9	619.9	618.2	618.2	613.0
175°	614.8	613.9	613.0	613.0	611.3	612.2	612.2	612.2	611.3	613.0	607.9
177.5°	601.8	600.1	601.8	603.6	602.7	603.6	604.4	604.4	603.6	605.3	601.0
180°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7
2.5°	668.1	669.0	668.1	669.0	669.0	669.0	669.0	671.6	674.2	675.9	675.0
5°	665.6	666.4	665.6	666.4	666.4	666.4	666.4	669.0	672.4	673.3	671.6
7.5°	660.4	661.2	661.2	661.2	661.2	661.2	661.2	664.7	667.3	669.0	667.3
10°	653.5	654.4	654.4	654.4	655.2	655.2	655.2	657.8	661.2	662.1	660.4
12.5°	644.9	645.8	645.8	645.8	646.6	646.6	646.6	649.2	652.6	653.5	652.6
15°	634.6	635.4	635.4	635.4	636.3	636.3	636.3	638.9	642.3	643.2	642.3
17.5°	622.5	622.5	622.5	622.5	624.2	625.1	624.2	626.8	630.3	631.1	630.3
20°	607.9	608.7	608.7	609.6	610.4	611.3	611.3	613.9	617.3	618.2	616.5
22.5°	593.2	593.2	594.1	595.0	595.0	595.8	595.8	598.4	601.8	602.7	601.8
25°	576.9	576.9	577.7	579.5	579.5	580.3	580.3	582.9	585.5	586.3	585.5
27.5°	558.8	557.9	559.7	560.5	561.4	563.1	562.2	565.7	568.3	569.1	568.3
30°	540.7	539.8	541.6	542.4	543.3	544.2	544.2	547.6	550.2	551.0	550.2
32.5°	520.9	520.0	521.8	523.5	523.5	524.3	524.3	527.8	529.5	531.2	529.5
35°	500.2	498.5	501.1	502.8	502.0	503.7	503.7	507.1	508.9	510.6	508.9
37.5°	479.6	478.7	479.6	481.3	481.3	482.2	482.2	485.6	488.2	489.0	488.2
40°	458.1	457.2	458.1	460.6	459.8	460.6	461.5	464.1	465.8	466.7	465.8
42.5°	434.8	434.8	435.7	438.2	437.4	438.2	439.1	441.7	443.4	444.3	443.4
45°	411.6	412.4	411.6	415.9	414.1	415.0	416.7	417.6	420.2	421.0	419.3
47.5°	388.3	390.0	389.2	392.6	391.8	391.8	392.6	395.2	396.9	397.8	396.9
50°	364.2	365.9	365.1	369.4	367.6	368.5	369.4	371.1	372.0	372.8	372.8
52.5°	340.1	341.0	342.7	345.3	344.4	345.3	346.1	347.0	347.8	349.6	347.8
55°	316.0	316.8	318.6	320.3	321.2	321.2	322.0	323.7	322.9	323.7	324.6
57.5°	291.9	293.6	293.6	297.0	297.0	297.0	297.0	299.6	298.8	300.5	300.5
60°	266.9	266.9	268.6	271.2	272.1	272.1	272.9	274.7	273.8	275.5	276.4
62.5°	241.9	243.7	245.4	247.1	248.8	247.1	249.7	250.6	251.4	252.3	251.4
65°	215.3	217.0	218.7	220.4	220.4	220.4	221.3	224.7	224.7	228.2	227.3
67.5°	190.3	192.0	193.7	195.4	196.3	196.3	197.2	198.9	200.6	201.5	200.6
70°	165.3	167.0	170.5	171.3	173.1	171.3	173.9	174.8	176.5	177.4	176.5
72.5°	141.2	142.9	145.5	146.4	148.1	149.0	149.8	149.8	152.4	153.3	153.3
75°	117.1	118.8	121.4	122.3	124.0	124.8	125.7	125.7	128.3	129.2	128.3
77.5°	93.8	94.7	97.3	98.2	99.9	100.7	101.6	101.6	104.2	105.0	104.2
80°	70.6	71.5	74.0	74.9	76.6	76.6	77.5	78.4	80.1	80.9	80.1
82.5°	48.2	49.1	50.8	52.5	53.4	54.2	55.1	56.0	56.8	57.7	56.8
85°	25.8	26.7	29.3	30.1	31.9	32.7	32.7	33.6	35.3	35.3	35.3
87.5°	6.0	7.7	9.5	10.3	12.1	12.1	12.9	12.9	14.6	15.5	14.6
90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
92.5°	2.6	2.6	3.4	3.4	4.3	4.3	6.0	6.9	6.0	5.2	5.2
95°	6.0	6.9	8.6	11.2	12.1	13.8	17.2	18.1	14.6	12.9	12.1
97.5°	11.2	13.8	18.1	25.0	27.6	31.0	35.3	33.6	27.6	23.2	21.5
100°	19.8	25.8	36.2	49.1	54.2	58.5	59.4	55.1	45.6	37.9	33.6
102.5°	35.3	49.9	71.5	89.5	93.0	95.6	91.3	81.8	68.0	56.0	49.1
105°	70.6	100.7	130.0	141.2	141.2	138.6	125.7	112.8	94.7	79.2	68.0
107.5°	145.5	179.9	197.2	193.7	187.7	179.1	161.9	145.5	124.0	105.0	91.3
110°	245.4	258.3	253.1	240.2	229.0	218.7	197.2	177.4	154.1	134.3	118.0



TEST NUMBER: P303151

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	320.3	310.8	297.0	275.5	265.2	254.9	232.5	210.1	184.3	164.5	145.5
115°	367.6	350.4	331.5	310.0	298.8	287.6	266.0	241.9	214.4	192.9	173.9
117.5°	402.1	381.4	361.6	341.0	328.9	317.7	297.0	271.2	245.4	222.1	203.2
120°	429.6	408.1	388.3	367.6	357.3	347.0	325.5	299.6	274.7	254.0	233.3
122.5°	453.7	432.2	413.3	393.5	384.0	372.8	350.4	325.5	300.5	280.7	261.7
125°	475.3	455.5	436.5	418.4	408.1	396.1	373.7	349.6	326.3	306.5	288.4
127.5°	495.1	477.0	458.9	440.8	431.4	417.6	396.9	373.7	352.1	332.3	315.1
130°	513.2	496.8	478.7	460.6	450.3	438.2	417.6	396.1	376.3	357.3	340.1
132.5°	530.4	514.0	496.8	477.9	468.4	457.2	438.2	417.6	398.6	382.3	365.1
135°	545.9	529.5	512.3	494.2	483.9	474.4	456.3	437.4	419.3	402.9	385.7
137.5°	559.7	542.4	526.1	508.9	499.4	490.8	473.6	455.5	440.0	424.5	407.3
140°	571.7	553.6	538.1	520.9	513.2	506.3	488.2	473.6	458.9	443.4	428.8
142.5°	581.2	564.0	549.3	533.8	526.9	519.2	503.7	489.9	476.1	462.4	447.7
145°	589.8	572.6	559.7	545.0	538.1	532.1	517.5	503.7	492.5	479.6	464.9
147.5°	597.5	582.0	569.1	556.2	550.2	544.2	530.4	518.3	508.0	495.1	482.2
150°	602.7	589.8	578.6	565.7	561.4	555.3	542.4	532.1	521.8	511.4	498.5
152.5°	607.0	595.8	585.5	575.1	570.8	564.8	553.6	545.0	536.4	526.1	514.0
155°	609.6	601.0	591.5	582.0	577.7	573.4	564.0	555.3	547.6	539.0	526.9
157.5°	613.0	605.3	596.7	588.1	584.6	580.3	571.7	564.8	557.9	550.2	539.8
160°	614.8	607.9	600.1	593.2	589.8	587.2	577.7	573.4	567.4	560.5	551.0
162.5°	615.6	609.6	603.6	597.5	595.0	591.5	584.6	580.3	575.1	569.1	561.4
165°	615.6	611.3	605.3	601.0	598.4	595.0	589.8	586.3	582.0	576.9	570.0
167.5°	614.8	611.3	606.1	602.7	601.0	598.4	593.2	590.6	588.1	584.6	577.7
170°	612.2	609.6	606.1	603.6	601.0	599.3	595.8	594.1	592.4	589.8	583.8
172.5°	608.7	607.0	603.6	602.7	601.0	599.3	596.7	596.7	595.0	593.2	588.9
175°	604.4	603.6	601.0	600.1	600.1	598.4	596.7	596.7	597.5	595.8	592.4
177.5°	598.4	598.4	596.7	596.7	596.7	595.8	595.0	596.7	597.5	597.5	595.0
180°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4



TEST NUMBER: P303151

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7
2.5°	673.3	670.7	669.0	669.0	669.0	667.3	666.4	667.3	669.9	674.2	669.9
5°	669.9	667.3	666.4	666.4	666.4	664.7	663.8	664.7	667.3	671.6	667.3
7.5°	665.6	663.0	662.1	662.1	661.2	659.5	659.5	659.5	663.0	665.6	662.1
10°	658.7	656.1	655.2	655.2	654.4	652.6	652.6	652.6	656.1	658.7	655.2
12.5°	650.1	647.5	646.6	646.6	645.8	644.0	644.0	644.0	647.5	649.2	646.6
15°	639.7	637.1	636.3	636.3	635.4	633.7	633.7	633.7	637.1	638.0	635.4
17.5°	627.7	625.1	624.2	624.2	622.5	621.6	620.8	620.8	624.2	625.1	622.5
20°	614.8	611.3	611.3	610.4	608.7	607.9	607.9	607.0	612.2	610.4	608.7
22.5°	599.3	596.7	596.7	595.8	594.1	593.2	592.4	592.4	596.7	593.2	591.5
25°	583.8	580.3	581.2	579.5	578.6	576.9	576.0	576.0	580.3	576.0	575.1
27.5°	567.4	564.0	562.2	562.2	561.4	558.8	557.9	557.9	562.2	557.9	557.1
30°	547.6	545.9	544.2	544.2	541.6	540.7	539.8	539.8	543.3	539.0	538.1
32.5°	528.7	526.1	525.2	524.3	523.5	520.9	520.9	520.9	523.5	518.3	517.5
35°	508.0	506.3	505.4	503.7	502.8	501.1	500.2	501.1	502.0	497.7	495.9
37.5°	485.6	484.7	483.9	482.2	481.3	480.4	479.6	480.4	480.4	476.1	474.4
40°	464.1	462.4	461.5	460.6	460.6	458.9	458.1	459.8	458.1	456.3	452.9
42.5°	442.6	440.0	440.0	438.2	438.2	436.5	436.5	437.4	435.7	433.9	430.5
45°	419.3	418.4	417.6	415.9	415.9	414.1	414.1	415.0	412.4	410.7	408.1
47.5°	396.1	396.1	394.3	392.6	393.5	392.6	391.8	391.8	390.0	388.3	385.7
50°	372.8	372.0	369.4	370.2	371.1	368.5	369.4	366.8	366.8	365.1	361.6
52.5°	348.7	347.8	347.0	346.1	347.0	345.3	345.3	343.5	342.7	341.0	338.4
55°	325.5	324.6	322.9	322.9	323.7	321.2	321.2	319.4	318.6	316.8	314.3
57.5°	301.4	300.5	299.6	298.8	299.6	297.9	297.0	296.2	294.5	292.7	291.0
60°	277.2	276.4	274.7	273.8	274.7	272.9	272.1	271.2	270.4	267.8	266.0
62.5°	252.3	250.6	250.6	249.7	250.6	248.8	248.0	247.1	245.4	243.7	243.7
65°	227.3	226.4	226.4	223.9	225.6	223.9	220.4	220.4	218.7	217.0	217.0
67.5°	200.6	199.8	199.8	198.9	198.9	198.9	198.0	196.3	193.7	193.7	193.7
70°	176.5	175.6	175.6	173.9	174.8	173.9	173.1	171.3	169.6	169.6	169.6
72.5°	151.5	150.7	150.7	149.8	150.7	149.8	149.0	147.2	145.5	146.4	145.5
75°	127.4	126.6	127.4	125.7	126.6	125.7	124.8	123.1	122.3	123.1	122.3
77.5°	103.3	103.3	103.3	103.3	102.5	101.6	100.7	99.9	99.9	99.9	98.2
80°	80.1	79.2	79.2	79.2	79.2	78.4	77.5	76.6	76.6	76.6	74.9
82.5°	56.8	56.8	56.8	56.8	56.0	56.8	54.2	53.4	53.4	53.4	51.7
85°	34.4	34.4	35.3	34.4	34.4	33.6	31.9	31.0	31.0	30.1	29.3
87.5°	15.5	13.8	13.8	13.8	12.9	12.9	12.9	11.2	11.2	11.2	9.5
90°	1.7	2.6	2.6	2.6	2.6	3.4	3.4	3.4	3.4	3.4	4.3
92.5°	7.7	10.3	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
95°	13.8	15.5	18.9	20.7	22.4	24.1	24.1	25.0	24.1	23.2	23.2
97.5°	20.7	23.2	24.1	25.0	26.7	30.1	32.7	35.3	37.0	37.9	37.9
100°	31.9	31.0	32.7	35.3	35.3	34.4	37.0	39.6	42.2	44.8	45.6
102.5°	45.6	42.2	41.3	42.2	43.9	47.4	45.6	46.5	47.4	49.1	51.7
105°	62.0	56.8	53.4	52.5	53.4	55.1	58.5	59.4	56.8	57.7	58.5
107.5°	80.9	73.2	68.0	66.3	65.4	65.4	67.2	70.6	73.2	72.3	70.6
110°	104.2	92.1	85.2	81.8	80.1	78.4	78.4	80.1	82.7	86.1	88.7



TEST NUMBER: P303151

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	130.0	115.4	105.0	99.9	97.3	91.3	90.4	91.3	92.1	94.7	98.2
115°	157.6	139.5	126.6	120.5	117.1	107.6	103.3	102.5	103.3	104.2	105.9
117.5°	185.1	167.0	150.7	143.8	138.6	127.4	119.7	117.1	114.5	115.4	115.4
120°	215.3	193.7	178.2	168.8	163.6	149.8	139.5	133.5	128.3	126.6	125.7
122.5°	242.8	223.9	204.9	198.0	189.4	173.9	162.7	153.3	145.5	140.3	137.8
125°	268.6	250.6	233.3	225.6	217.0	199.8	187.7	176.5	166.2	159.3	152.4
127.5°	297.0	278.1	260.9	254.0	245.4	228.2	213.5	203.2	192.0	181.7	172.2
130°	320.3	303.9	287.6	280.7	272.9	256.6	241.9	229.9	216.1	206.6	196.3
132.5°	346.1	328.9	313.4	305.7	297.9	282.4	268.6	256.6	243.7	235.1	223.9
135°	369.4	353.0	336.7	330.6	322.0	308.2	295.3	282.4	270.4	260.0	250.6
137.5°	391.8	375.4	360.8	353.9	346.1	333.2	321.2	311.7	297.9	287.6	277.2
140°	412.4	396.9	383.1	376.3	370.2	356.5	346.1	336.7	323.7	314.3	303.1
142.5°	432.2	417.6	405.5	398.6	391.8	378.8	368.5	359.9	349.6	339.2	329.8
145°	451.2	436.5	425.3	419.3	412.4	400.4	390.9	382.3	375.4	364.2	354.7
147.5°	469.2	454.6	444.3	439.1	433.1	421.9	413.3	404.7	398.6	388.3	379.7
150°	485.6	472.7	463.2	458.1	452.0	441.7	433.9	426.2	421.0	410.7	404.7
152.5°	502.0	489.9	481.3	476.1	471.0	460.6	452.9	445.1	442.6	432.2	427.1
155°	516.6	504.5	496.8	492.5	488.2	477.9	471.0	463.2	461.5	452.9	446.9
157.5°	530.4	519.2	511.4	508.0	503.7	494.2	488.2	481.3	480.4	472.7	467.5
160°	542.4	532.1	525.2	520.9	517.5	509.7	503.7	498.5	496.8	491.6	486.5
162.5°	553.6	545.0	538.1	534.7	532.1	524.3	519.2	514.0	513.2	509.7	503.7
165°	563.1	554.5	549.3	546.7	544.2	537.3	533.0	528.7	527.8	526.1	520.0
167.5°	571.7	564.0	559.7	557.1	554.5	549.3	545.9	542.4	542.4	540.7	535.5
170°	578.6	571.7	568.3	566.5	564.8	559.7	556.2	553.6	553.6	554.5	548.5
172.5°	584.6	579.5	576.0	573.4	572.6	569.1	566.5	564.0	564.8	566.5	561.4
175°	589.8	584.6	582.0	581.2	580.3	576.9	575.1	574.3	575.1	577.7	573.4
177.5°	593.2	589.8	588.1	587.2	587.2	583.8	582.9	582.9	583.8	588.1	582.9
180°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4



TEST NUMBER: P303151

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	670.7	670.7	670.7	670.7	670.7	670.7	670.7	670.7
2.5°	671.6	670.7	669.9	669.0	668.1	667.3	665.6	666.4
5°	668.1	667.3	666.4	665.6	665.6	665.6	664.7	665.6
7.5°	663.0	662.1	661.2	660.4	660.4	661.2	660.4	662.1
10°	656.1	654.4	654.4	652.6	652.6	652.6	652.6	653.5
12.5°	646.6	644.9	644.9	643.2	643.2	643.2	644.0	644.9
15°	635.4	634.6	633.7	632.8	632.8	633.7	632.8	633.7
17.5°	622.5	620.8	620.8	619.9	619.9	619.1	619.1	619.9
20°	607.0	605.3	605.3	604.4	603.6	603.6	603.6	604.4
22.5°	589.8	588.9	588.1	586.3	587.2	587.2	586.3	588.1
25°	572.6	571.7	570.8	570.0	570.0	569.1	568.3	569.1
27.5°	555.3	553.6	552.8	551.9	551.0	550.2	549.3	550.2
30°	536.4	533.0	533.8	533.0	531.2	530.4	529.5	530.4
32.5°	515.7	514.0	512.3	512.3	510.6	509.7	508.9	509.7
35°	495.1	492.5	491.6	491.6	489.9	489.0	488.2	489.0
37.5°	473.6	471.0	470.1	470.1	468.4	466.7	466.7	466.7
40°	451.2	448.6	448.6	448.6	446.9	445.1	445.1	445.1
42.5°	428.8	427.1	426.2	426.2	424.5	421.9	421.9	422.8
45°	406.4	404.7	403.8	402.9	402.1	399.5	399.5	399.5
47.5°	382.3	382.3	380.6	380.6	378.8	378.0	377.1	377.1
50°	360.8	359.0	357.3	357.3	356.5	353.9	353.9	353.9
52.5°	336.7	335.8	334.1	334.1	332.3	330.6	330.6	330.6
55°	313.4	312.5	310.8	310.8	309.1	308.2	307.4	307.4
57.5°	289.3	289.3	287.6	287.6	285.0	285.0	284.1	285.9
60°	264.3	265.2	263.5	262.6	260.9	260.9	260.9	262.6
62.5°	241.9	241.1	239.4	239.4	238.5	237.6	238.5	238.5
65°	216.1	214.4	213.5	213.5	212.7	211.8	210.9	212.7
67.5°	192.0	191.1	189.4	189.4	189.4	188.6	188.6	189.4
70°	167.9	167.0	166.2	166.2	165.3	165.3	165.3	166.2
72.5°	143.8	143.8	143.8	142.9	142.1	141.2	142.9	142.1
75°	120.5	119.7	119.7	119.7	118.8	118.0	117.1	118.8
77.5°	97.3	96.4	96.4	96.4	95.6	94.7	94.7	95.6
80°	74.0	73.2	73.2	73.2	72.3	72.3	71.5	72.3
82.5°	49.9	49.9	49.9	49.9	48.2	49.1	49.1	48.2
85°	28.4	27.6	27.6	27.6	27.6	27.6	26.7	27.6
87.5°	8.6	8.6	8.6	9.5	8.6	9.5	9.5	9.5
90°	4.3	4.3	4.3	4.3	4.3	4.3	5.2	5.2
92.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
95°	22.4	23.2	22.4	22.4	22.4	22.4	22.4	22.4
97.5°	37.9	37.9	37.9	37.9	37.0	36.2	36.2	36.2
100°	47.4	48.2	49.1	49.1	49.9	49.9	49.9	49.9
102.5°	53.4	54.2	54.2	55.1	56.0	56.0	56.0	56.0
105°	59.4	59.4	60.3	61.1	62.9	63.7	64.6	64.6
107.5°	69.7	69.7	70.6	70.6	70.6	71.5	71.5	71.5
110°	87.8	84.4	84.4	83.5	82.7	82.7	82.7	82.7



TEST NUMBER: P303151

CATALOG NUMBER: CTW-F-5050-40L935-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	100.7	101.6	102.5	103.3	102.5	100.7	100.7	100.7
115°	109.3	111.1	112.8	113.7	114.5	114.5	115.4	115.4
117.5°	118.0	119.7	120.5	121.4	123.1	123.1	124.8	124.8
120°	126.6	128.3	128.3	129.2	130.0	130.9	131.7	131.7
122.5°	136.9	137.8	137.8	137.8	138.6	138.6	139.5	139.5
125°	149.8	148.1	147.2	148.1	147.2	147.2	147.2	147.2
127.5°	166.2	162.7	161.9	161.0	159.3	157.6	157.6	157.6
130°	187.7	182.5	179.9	179.1	176.5	173.1	173.1	172.2
132.5°	212.7	206.6	203.2	202.3	198.0	193.7	192.0	191.1
135°	241.9	235.1	230.7	229.9	223.0	218.7	217.0	216.1
137.5°	267.8	260.9	258.3	256.6	252.3	248.0	245.4	244.5
140°	294.5	288.4	284.1	282.4	277.2	274.7	272.1	272.1
142.5°	321.2	315.1	310.8	309.1	304.8	301.4	298.8	298.8
145°	347.0	341.0	336.7	334.9	330.6	327.2	325.5	324.6
147.5°	372.8	366.8	363.3	361.6	357.3	353.9	351.3	351.3
150°	397.8	391.8	388.3	384.9	382.3	378.8	377.1	376.3
152.5°	421.0	415.9	412.4	409.0	406.4	404.7	402.1	402.1
155°	441.7	437.4	433.9	431.4	429.6	427.1	426.2	426.2
157.5°	463.2	458.1	455.5	452.9	451.2	450.3	448.6	448.6
160°	483.0	477.9	476.1	473.6	471.8	470.1	469.2	470.1
162.5°	502.0	498.5	495.9	493.4	492.5	490.8	489.9	489.9
165°	518.3	514.9	513.2	511.4	509.7	508.9	508.0	508.9
167.5°	533.8	530.4	528.7	526.9	526.1	526.1	525.2	525.2
170°	547.6	545.0	544.2	541.6	540.7	540.7	539.8	539.8
172.5°	560.5	558.8	557.9	556.2	556.2	556.2	555.3	556.2
175°	573.4	571.7	570.8	569.1	569.1	568.3	567.4	568.3
177.5°	584.6	583.8	582.0	581.2	580.3	579.5	577.7	578.6
180°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4

(END OF REPORT)