

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: P303135

Luminaire Tested: **CTW-F-5050-30L940-UNV-STD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303135
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-5050-30L940-UNV-STD-4
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 3000 LUMEN PACKAGE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

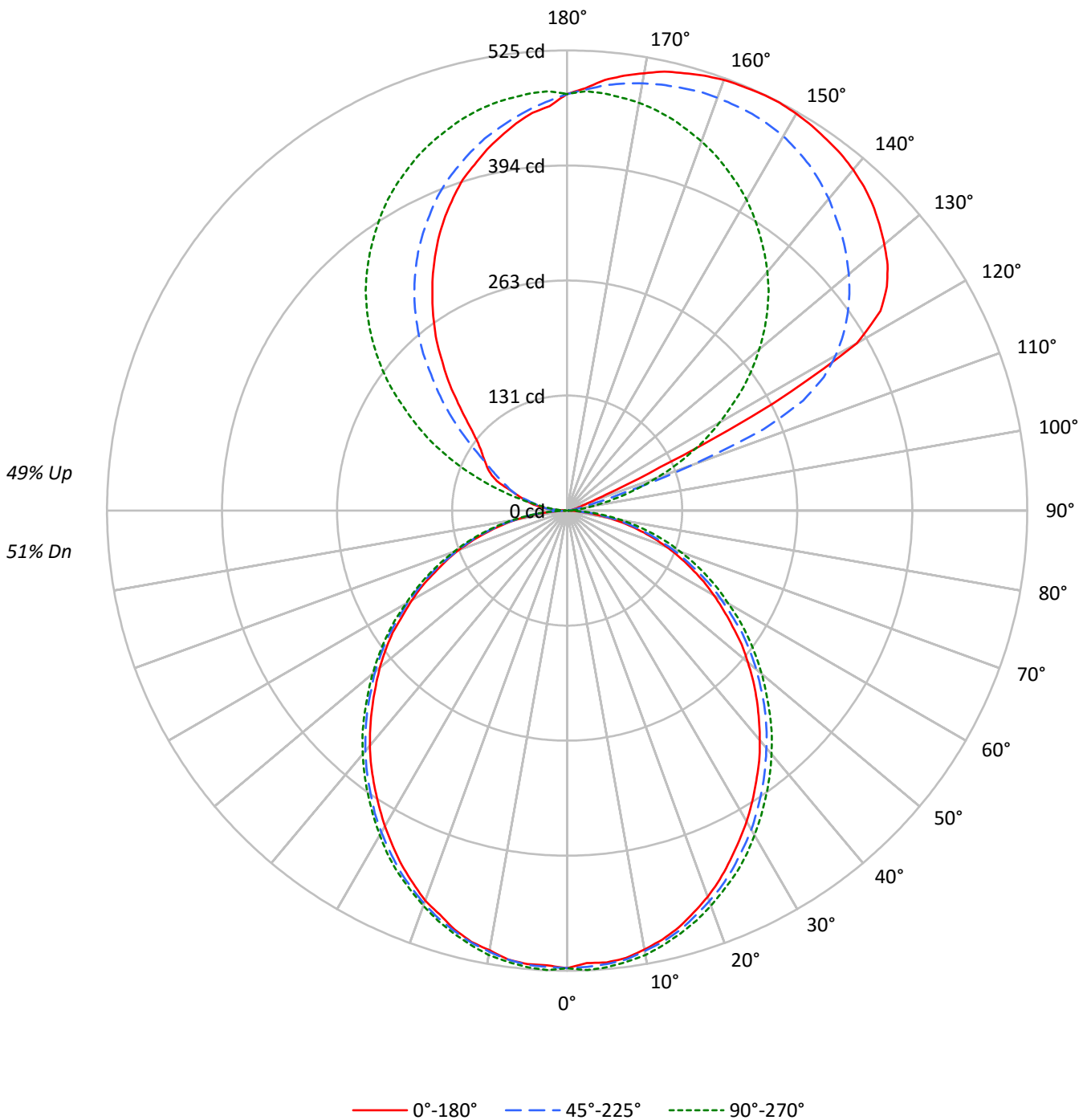
Lumens per Lamp: N/A
Luminaire Lumens: 2729.2 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 4' x L: 0.12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 24.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				
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°	11238	11238	11238
5°	11183	11300	11222
10°	11116	11253	11135
15°	10972	11132	11032
20°	10742	10990	10845
25°	10454	10839	10603
30°	10179	10627	10336
35°	9887	10407	10076
40°	9611	10193	9839
45°	9316	9946	9563
50°	9013	9706	9344
55°	8648	9458	9120
60°	8331	9145	8796
65°	7977	8940	8481
70°	7591	8667	8271
75°	6962	8384	7785
80°	5914	7810	7141
85°	3557	6891	5335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.8
10°-20°	139.5	5.1
20°-30°	206.6	7.6
30°-40°	242.6	8.9
40°-50°	246.0	9.0
50°-60°	218.8	8.0
60°-70°	166.8	6.1
70°-80°	99.1	3.6
80°-90°	26.8	1.0
90°-100°	13.0	0.5
100°-110°	55.6	2.0
110°-120°	157.6	5.8
120°-130°	235.7	8.6
130°-140°	254.8	9.3
140°-150°	242.7	8.9
150°-160°	199.0	7.3
160°-170°	130.1	4.8
170°-180°	45.1	1.7
0°-30°	395.4	14.5
0°-40°	638.1	23.4
0°-60°	1102.9	40.4
0°-90°	1395.6	51.1
90°-120°	226.2	8.3
90°-150°	959.5	35.2
90°-180°	1334.0	48.9
0°-180°	2729.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	522	522	522	522	522	
5°	518	519	523	520	519	49
15°	492	496	500	497	495	139
25°	440	449	456	453	446	203
35°	376	388	396	392	383	236
45°	306	319	327	322	314	236
55°	230	244	252	248	243	207
65°	157	164	176	172	166	155
75°	84	89	101	97	94	88
85°	14	19	28	25	22	19
90°	1	1	1	2	3	1
95°	3	3	10	20	18	3
105°	13	32	64	49	52	15
115°	117	297	156	85	94	155
125°	446	391	246	138	120	393
135°	493	444	323	220	178	381
145°	517	482	383	304	266	324
155°	525	500	430	372	346	243
165°	517	500	463	424	409	147
175°	493	487	478	461	455	47
180°	475	475	475	475	475	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0
2.5°	516.6	516.6	519.3	520.2	520.2	521.1	522.0	522.9	522.9	522.9	521.1
5°	517.5	517.5	517.5	517.5	517.5	518.4	519.3	520.2	521.1	520.2	519.3
7.5°	514.8	514.8	514.8	514.8	513.9	514.8	514.8	516.6	516.6	516.6	516.6
10°	508.5	508.5	508.5	509.4	508.5	509.4	510.3	511.2	512.1	512.1	510.3
12.5°	501.3	501.3	501.3	502.2	501.3	501.3	503.1	503.1	504.9	504.0	504.0
15°	492.3	492.3	492.3	494.1	493.2	493.2	494.1	495.0	495.9	495.9	495.9
17.5°	480.6	480.6	482.4	483.3	482.4	483.3	483.3	484.2	486.0	486.0	485.1
20°	468.9	468.9	468.9	470.7	469.8	470.7	470.7	472.5	474.3	474.3	474.3
22.5°	455.4	454.5	455.4	456.3	456.3	457.2	457.2	459.0	460.8	461.7	462.6
25°	440.1	440.1	441.0	442.8	442.8	442.8	443.7	445.5	447.3	448.2	449.1
27.5°	424.8	424.8	425.7	427.5	428.4	428.4	428.4	431.1	433.8	434.7	434.7
30°	409.5	409.5	409.5	411.3	412.2	412.2	412.2	414.9	417.6	420.3	420.3
32.5°	393.3	393.3	393.3	396.0	396.9	396.9	396.9	398.7	401.4	403.2	404.1
35°	376.2	376.2	377.1	378.9	379.8	379.8	379.8	381.6	383.4	387.0	387.9
37.5°	360.0	359.1	360.0	361.8	362.7	362.7	361.8	364.5	367.2	369.9	370.8
40°	342.0	341.1	342.9	343.8	344.7	344.7	344.7	347.4	350.1	352.8	353.7
42.5°	324.0	324.0	324.9	325.8	326.7	326.7	327.6	329.4	331.2	334.8	336.6
45°	306.0	305.1	306.9	307.8	309.6	308.7	309.6	310.5	313.2	315.9	318.6
47.5°	288.0	288.0	288.0	288.9	290.7	291.6	291.6	292.5	295.2	297.9	299.7
50°	269.1	269.1	270.0	270.9	272.7	272.7	273.6	274.5	275.4	279.9	281.7
52.5°	251.1	251.1	251.1	252.0	254.7	254.7	254.7	256.5	258.3	260.1	262.8
55°	230.4	231.3	231.3	231.3	234.0	234.0	234.9	235.8	237.6	241.2	243.9
57.5°	211.5	212.4	212.4	213.3	214.2	215.1	216.0	216.0	217.8	219.6	222.3
60°	193.5	194.4	194.4	194.4	196.2	196.2	197.1	198.0	198.9	200.7	203.4
62.5°	175.5	175.5	175.5	175.5	177.3	177.3	178.2	180.0	180.0	181.8	184.5
65°	156.6	157.5	156.6	157.5	158.4	158.4	159.3	161.1	161.1	162.9	163.8
67.5°	138.6	138.6	138.6	139.5	139.5	140.4	140.4	142.2	143.1	144.0	144.9
70°	120.6	120.6	119.7	120.6	121.5	122.4	122.4	123.3	124.2	125.1	126.9
72.5°	101.7	101.7	101.7	102.6	102.6	103.5	103.5	105.3	106.2	107.1	108.0
75°	83.7	83.7	83.7	84.6	84.6	84.6	85.5	86.4	87.3	88.2	89.1
77.5°	65.7	65.7	65.7	66.6	65.7	66.6	66.6	68.4	69.3	70.2	71.1
80°	47.7	47.7	47.7	48.6	49.5	49.5	49.5	50.4	51.3	52.2	53.1
82.5°	30.6	29.7	29.7	30.6	31.5	31.5	32.4	32.4	33.3	34.2	36.0
85°	14.4	14.4	13.5	14.4	15.3	15.3	16.2	16.2	17.1	18.0	18.9
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	3.6
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°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
95°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
97.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4	5.4
100°	6.3	6.3	6.3	6.3	6.3	7.2	7.2	7.2	8.1	9.0	9.9
102.5°	9.0	9.0	9.0	9.0	9.9	9.9	9.9	10.8	11.7	14.4	17.1
105°	12.6	12.6	13.5	13.5	14.4	14.4	15.3	16.2	18.9	23.4	32.4
107.5°	18.0	18.0	18.9	18.9	20.7	21.6	23.4	26.1	33.3	46.8	69.3
110°	26.1	27.0	28.8	29.7	34.2	36.9	40.5	52.2	74.7	109.8	150.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	47.7	48.6	55.8	60.3	73.8	83.7	93.6	126.9	172.8	215.1	242.1
115°	117.0	122.4	132.3	150.3	179.1	199.8	218.7	255.6	285.3	296.1	297.0
117.5°	265.5	270.0	283.5	297.9	316.8	329.4	334.8	342.9	343.8	337.5	330.3
120°	381.6	381.6	381.6	385.2	385.2	387.0	384.3	380.7	372.6	362.7	353.7
122.5°	423.9	422.1	421.2	418.5	414.9	412.2	409.5	402.3	395.1	384.3	373.5
125°	445.5	442.8	441.9	438.3	432.9	431.1	427.5	420.3	412.2	401.4	390.6
127.5°	460.8	458.1	456.3	453.6	448.2	445.5	441.9	434.7	426.6	416.7	405.9
130°	472.5	469.8	468.0	466.2	459.9	458.1	454.5	447.3	439.2	430.2	419.4
132.5°	483.3	481.5	478.8	476.1	472.5	469.8	466.2	459.9	451.8	442.8	432.0
135°	493.2	490.5	488.7	486.9	481.5	479.7	476.1	469.8	462.6	452.7	443.7
137.5°	501.3	498.6	496.8	494.1	490.5	486.9	484.2	478.8	471.6	463.5	453.6
140°	507.6	504.9	503.1	500.4	496.8	494.1	491.4	486.9	480.6	472.5	464.4
142.5°	513.0	509.4	508.5	505.8	502.2	500.4	497.7	493.2	487.8	479.7	473.4
145°	516.6	513.9	513.0	510.3	507.6	504.9	504.0	500.4	494.1	486.0	481.5
147.5°	520.2	517.5	516.6	514.8	511.2	509.4	508.5	504.0	498.6	491.4	487.8
150°	522.9	520.2	519.3	517.5	513.9	513.0	512.1	508.5	503.1	495.9	493.2
152.5°	524.7	521.1	520.2	518.4	515.7	514.8	513.9	510.3	505.8	499.5	496.8
155°	524.7	522.0	521.1	519.3	516.6	515.7	513.9	511.2	506.7	502.2	499.5
157.5°	523.8	522.0	521.1	519.3	515.7	515.7	513.9	511.2	507.6	504.0	500.4
160°	522.9	520.2	520.2	518.4	515.7	515.7	513.9	512.1	507.6	504.9	501.3
162.5°	520.2	518.4	518.4	516.6	514.8	514.8	513.0	511.2	506.7	505.8	501.3
165°	516.6	514.8	514.8	513.9	511.2	511.2	510.3	507.6	504.9	504.0	499.5
167.5°	513.0	510.3	510.3	509.4	506.7	506.7	506.7	504.9	502.2	503.1	497.7
170°	506.7	504.0	504.0	503.1	502.2	502.2	502.2	500.4	497.7	499.5	495.0
172.5°	500.4	499.5	498.6	497.7	496.8	496.8	496.8	495.9	494.1	495.9	491.4
175°	493.2	491.4	491.4	490.5	490.5	490.5	490.5	490.5	488.7	491.4	486.9
177.5°	482.4	480.6	481.5	482.4	482.4	483.3	483.3	483.3	482.4	485.1	480.6
180°	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0
2.5°	519.3	521.1	520.2	520.2	520.2	520.2	520.2	521.1	523.8	524.7	524.7
5°	517.5	519.3	518.4	517.5	517.5	517.5	517.5	519.3	522.0	522.9	522.0
7.5°	513.9	515.7	514.8	513.9	514.8	514.8	514.8	516.6	519.3	519.3	519.3
10°	508.5	510.3	509.4	509.4	509.4	509.4	510.3	511.2	513.9	514.8	513.9
12.5°	502.2	503.1	502.2	503.1	503.1	503.1	503.1	504.0	506.7	507.6	507.6
15°	494.1	495.0	494.1	495.0	494.1	495.0	495.0	496.8	498.6	499.5	500.4
17.5°	484.2	484.2	484.2	485.1	485.1	485.1	485.1	486.9	489.6	490.5	490.5
20°	472.5	473.4	474.3	474.3	474.3	475.2	475.2	476.1	479.7	479.7	480.6
22.5°	461.7	461.7	462.6	462.6	463.5	463.5	463.5	464.4	468.0	468.0	468.0
25°	448.2	448.2	450.0	450.9	450.9	450.9	451.8	452.7	456.3	456.3	456.3
27.5°	433.8	433.8	436.5	435.6	436.5	437.4	438.3	440.1	441.9	442.8	442.8
30°	419.4	419.4	421.2	421.2	422.1	422.1	423.0	424.8	427.5	427.5	428.4
32.5°	405.0	405.0	405.9	406.8	407.7	406.8	407.7	409.5	412.2	412.2	413.1
35°	388.8	387.9	389.7	390.6	390.6	391.5	391.5	393.3	396.0	396.0	396.9
37.5°	372.6	371.7	373.5	374.4	375.3	375.3	375.3	377.1	378.9	379.8	380.7
40°	355.5	354.6	357.3	358.2	358.2	358.2	358.2	360.0	361.8	362.7	363.6
42.5°	336.6	337.5	339.3	341.1	341.1	341.1	342.0	342.0	344.7	345.6	346.5
45°	319.5	320.4	321.3	324.0	323.1	322.2	324.0	324.0	326.7	326.7	327.6
47.5°	301.5	302.4	302.4	305.1	305.1	304.2	306.0	306.0	307.8	307.8	309.6
50°	283.5	284.4	284.4	287.1	287.1	286.2	288.0	288.0	289.8	289.8	291.6
52.5°	263.7	265.5	265.5	268.2	269.1	268.2	269.1	269.1	270.9	270.9	272.7
55°	244.8	246.6	247.5	248.4	250.2	249.3	250.2	251.1	252.9	252.0	253.8
57.5°	225.0	225.0	226.8	227.7	228.6	228.6	231.3	230.4	230.4	233.1	234.0
60°	205.2	206.1	207.9	208.8	209.7	209.7	210.6	211.5	212.4	212.4	214.2
62.5°	186.3	188.1	189.0	189.9	190.8	189.9	192.6	193.5	194.4	194.4	194.4
65°	167.4	168.3	170.1	171.0	171.0	171.0	173.7	174.6	174.6	175.5	175.5
67.5°	147.6	149.4	151.2	151.2	153.0	152.1	154.8	155.7	155.7	156.6	157.5
70°	128.7	129.6	131.4	132.3	134.1	133.2	135.0	135.9	136.8	137.7	138.6
72.5°	109.8	110.7	112.5	113.4	114.3	115.2	116.1	117.9	118.8	119.7	119.7
75°	90.9	91.8	93.6	94.5	95.4	96.3	97.2	99.0	99.0	100.8	100.8
77.5°	72.9	73.8	74.7	75.6	77.4	78.3	79.2	80.1	81.0	81.9	81.9
80°	54.9	54.9	56.7	57.6	59.4	59.4	60.3	61.2	63.0	63.0	63.0
82.5°	36.9	37.8	38.7	39.6	41.4	41.4	42.3	44.1	45.0	45.0	45.0
85°	19.8	20.7	22.5	23.4	24.3	24.3	26.1	27.0	27.9	27.9	27.9
87.5°	4.5	5.4	6.3	7.2	9.0	9.9	9.9	10.8	11.7	11.7	11.7
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°	1.8	1.8	1.8	1.8	1.8	2.7	3.6	4.5	4.5	3.6	4.5
95°	3.6	3.6	4.5	6.3	8.1	9.0	12.6	13.5	11.7	9.9	9.9
97.5°	6.3	8.1	10.8	16.2	19.8	22.5	27.0	25.2	21.6	18.9	17.1
100°	12.6	17.1	23.4	34.2	39.6	44.1	45.9	41.4	36.0	30.6	27.0
102.5°	22.5	34.2	48.6	65.7	71.1	72.9	72.0	63.0	54.0	45.0	39.6
105°	46.8	68.4	93.6	106.2	108.9	107.1	98.1	88.2	75.6	63.9	54.9
107.5°	100.8	131.4	147.6	149.4	146.7	141.3	127.8	114.3	99.0	85.5	72.9
110°	179.1	195.3	195.3	187.2	180.0	173.7	156.6	141.3	124.2	108.0	94.5



TEST NUMBER: P303135

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	246.6	243.9	232.2	217.8	209.7	201.6	183.6	167.4	148.5	132.3	116.1
115°	288.9	276.3	261.9	245.7	236.7	226.8	210.6	191.7	171.9	155.7	138.6
117.5°	316.8	302.4	286.2	270.9	261.9	254.7	235.8	214.2	196.2	179.1	162.0
120°	339.3	324.0	308.7	293.4	285.3	277.2	257.4	238.5	217.8	200.7	184.5
122.5°	358.2	343.8	328.5	314.1	306.0	297.0	279.0	260.1	243.0	222.3	207.0
125°	377.1	363.6	347.4	333.9	324.9	315.0	298.8	279.9	262.8	245.7	229.5
127.5°	393.3	379.8	366.3	351.0	342.0	333.0	316.8	298.8	282.6	266.4	251.1
130°	407.7	396.0	381.6	366.3	357.3	349.2	333.0	316.8	301.5	286.2	270.9
132.5°	423.0	409.5	396.0	380.7	372.6	364.5	350.1	334.8	319.5	305.1	290.7
135°	435.6	422.1	407.7	392.4	386.1	378.9	365.4	351.0	336.6	323.1	309.6
137.5°	447.3	432.0	418.5	404.1	398.7	392.4	378.9	365.4	352.8	340.2	326.7
140°	456.3	441.0	428.4	415.8	410.4	404.1	390.6	379.8	368.1	355.5	342.9
142.5°	463.5	449.1	436.5	425.7	420.3	415.8	403.2	392.4	381.6	369.9	358.2
145°	469.8	457.2	445.5	434.7	431.1	425.7	414.0	405.0	395.1	383.4	372.6
147.5°	475.2	464.4	453.6	443.7	439.2	434.7	423.9	415.8	405.9	396.9	386.1
150°	480.6	470.7	460.8	451.8	448.2	443.7	432.9	425.7	418.5	409.5	399.6
152.5°	484.2	475.2	466.2	459.0	455.4	451.8	441.9	436.5	428.4	420.3	411.3
155°	487.8	479.7	471.6	465.3	462.6	459.0	450.9	445.5	438.3	430.2	422.1
157.5°	490.5	483.3	476.1	470.7	468.0	465.3	457.2	453.6	447.3	440.1	432.0
160°	491.4	485.1	479.7	475.2	472.5	469.8	463.5	459.9	454.5	448.2	441.0
162.5°	491.4	486.9	481.5	478.8	476.1	473.4	468.0	465.3	460.8	455.4	449.1
165°	491.4	487.8	483.3	480.6	478.8	477.0	472.5	469.8	465.3	462.6	456.3
167.5°	491.4	487.8	484.2	482.4	480.6	478.8	476.1	474.3	470.7	468.0	462.6
170°	489.6	486.0	484.2	483.3	481.5	480.6	477.9	477.0	474.3	472.5	468.0
172.5°	486.9	484.2	483.3	482.4	481.5	480.6	478.8	477.9	476.1	475.2	472.5
175°	483.3	481.5	480.6	480.6	480.6	479.7	477.9	478.8	477.9	477.9	475.2
177.5°	477.9	477.0	477.0	477.0	477.9	477.0	477.0	477.9	477.9	478.8	477.0
180°	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2



TEST NUMBER: P303135

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0
2.5°	523.8	522.0	521.1	521.1	520.2	518.4	518.4	519.3	521.1	524.7	522.0
5°	522.0	521.1	518.4	518.4	518.4	517.5	515.7	517.5	520.2	522.9	519.3
7.5°	518.4	517.5	515.7	515.7	515.7	513.9	513.0	514.8	516.6	518.4	515.7
10°	513.9	512.1	511.2	510.3	510.3	508.5	507.6	509.4	511.2	513.0	511.2
12.5°	507.6	505.8	504.0	504.0	503.1	502.2	501.3	503.1	504.9	506.7	504.9
15°	499.5	497.7	495.9	495.9	495.9	493.2	493.2	494.1	496.8	497.7	495.0
17.5°	490.5	487.8	486.0	486.9	486.0	483.3	484.2	484.2	487.8	487.8	486.0
20°	479.7	477.0	476.1	476.1	475.2	473.4	473.4	474.3	477.0	476.1	474.3
22.5°	468.0	465.3	465.3	464.4	464.4	461.7	461.7	462.6	465.3	463.5	461.7
25°	455.4	453.6	452.7	452.7	450.9	449.1	449.1	450.0	452.7	450.0	449.1
27.5°	441.0	440.1	439.2	439.2	437.4	435.6	436.5	436.5	438.3	436.5	434.7
30°	427.5	425.7	424.8	424.8	423.0	420.3	421.2	421.2	423.9	421.2	421.2
32.5°	413.1	410.4	410.4	409.5	407.7	405.9	406.8	407.7	408.6	405.0	405.9
35°	396.9	394.2	394.2	393.3	391.5	390.6	390.6	391.5	391.5	388.8	388.8
37.5°	380.7	378.9	378.0	377.1	375.3	374.4	375.3	376.2	375.3	372.6	372.6
40°	363.6	361.8	360.0	360.0	359.1	358.2	358.2	360.0	358.2	355.5	355.5
42.5°	346.5	344.7	342.9	342.9	342.0	342.0	342.0	342.9	340.2	339.3	337.5
45°	328.5	326.7	324.9	324.9	324.0	324.0	324.0	324.0	322.2	321.3	320.4
47.5°	310.5	308.7	306.9	306.9	306.0	306.9	306.9	306.0	303.3	303.3	302.4
50°	292.5	290.7	288.9	288.9	288.9	288.9	288.9	288.0	286.2	285.3	284.4
52.5°	273.6	271.8	270.0	270.9	270.0	270.9	270.0	269.1	267.3	266.4	265.5
55°	254.7	252.9	252.0	252.9	252.0	252.0	251.1	250.2	248.4	248.4	246.6
57.5°	234.9	232.2	232.2	233.1	232.2	232.2	230.4	229.5	227.7	227.7	225.9
60°	214.2	213.3	213.3	213.3	213.3	212.4	211.5	211.5	209.7	208.8	207.0
62.5°	195.3	195.3	194.4	195.3	193.5	193.5	192.6	191.7	190.8	189.9	189.0
65°	176.4	175.5	175.5	174.6	174.6	174.6	173.7	172.8	171.9	171.0	170.1
67.5°	156.6	156.6	156.6	156.6	155.7	155.7	154.8	153.9	152.1	153.0	151.2
70°	137.7	137.7	137.7	137.7	136.8	136.8	135.9	135.0	133.2	134.1	133.2
72.5°	118.8	118.8	118.8	118.8	117.9	117.9	116.1	116.1	116.1	115.2	114.3
75°	99.9	99.9	99.9	99.0	99.0	99.0	97.2	97.2	97.2	97.2	95.4
77.5°	81.0	81.9	81.0	81.0	80.1	80.1	80.1	79.2	79.2	78.3	77.4
80°	62.1	63.0	63.0	63.0	62.1	62.1	62.1	61.2	60.3	60.3	59.4
82.5°	45.9	45.0	45.0	45.0	44.1	44.1	44.1	43.2	43.2	42.3	41.4
85°	27.9	27.9	27.9	27.9	27.0	27.0	26.1	25.2	25.2	23.4	23.4
87.5°	12.6	11.7	11.7	11.7	11.7	10.8	9.9	9.0	9.0	8.1	8.1
90°	0.9	0.9	1.8	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
92.5°	6.3	8.1	9.0	9.9	9.0	9.9	9.9	9.9	9.0	9.0	9.0
95°	10.8	12.6	15.3	16.2	17.1	18.9	19.8	19.8	19.8	18.9	18.9
97.5°	17.1	18.9	19.8	20.7	20.7	23.4	25.2	27.0	28.8	28.8	29.7
100°	26.1	25.2	27.0	28.8	28.8	28.8	29.7	31.5	33.3	34.2	36.0
102.5°	36.9	34.2	34.2	35.1	36.0	38.7	37.8	38.7	39.6	40.5	41.4
105°	49.5	46.8	44.1	44.1	44.1	45.9	48.6	50.4	48.6	48.6	49.5
107.5°	65.7	60.3	55.8	54.9	54.9	54.0	55.8	58.5	60.3	61.2	60.3
110°	83.7	75.6	71.1	66.6	65.7	64.8	64.8	65.7	68.4	71.1	72.9



TEST NUMBER: P303135

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	104.4	94.5	86.4	82.8	79.2	75.6	74.7	74.7	75.6	78.3	80.1
115°	126.0	114.3	103.5	99.0	96.3	89.1	85.5	83.7	84.6	85.5	87.3
117.5°	148.5	135.9	123.3	117.9	114.3	106.2	99.0	96.3	94.5	93.6	95.4
120°	171.0	158.4	145.8	138.6	133.2	124.2	116.1	108.9	105.3	103.5	102.6
122.5°	192.6	180.0	167.4	160.2	154.8	143.1	135.0	126.0	119.7	115.2	112.5
125°	214.2	201.6	189.0	181.8	176.4	163.8	153.9	145.8	137.7	130.5	125.1
127.5°	235.8	222.3	209.7	203.4	198.0	184.5	173.7	165.6	157.5	149.4	142.2
130°	257.4	245.7	232.2	224.1	219.6	206.1	195.3	185.4	178.2	170.1	161.1
132.5°	276.3	265.5	252.9	246.6	240.3	226.8	217.8	207.0	198.9	190.8	182.7
135°	296.1	284.4	271.8	266.4	261.0	250.2	239.4	228.6	219.6	211.5	203.4
137.5°	313.2	303.3	290.7	285.3	279.9	270.0	260.1	252.0	243.0	234.0	224.1
140°	330.3	319.5	308.7	303.3	297.9	289.8	279.9	272.7	263.7	256.5	246.6
142.5°	345.6	334.8	325.8	320.4	315.0	306.9	297.9	291.6	284.4	276.3	270.0
145°	360.9	351.0	342.0	336.6	332.1	324.0	315.0	310.5	304.2	296.1	288.9
147.5°	374.4	365.4	356.4	351.9	348.3	340.2	333.0	327.6	322.2	315.0	308.7
150°	387.9	378.9	370.8	367.2	362.7	356.4	350.1	343.8	340.2	333.0	327.6
152.5°	400.5	392.4	384.3	381.6	378.0	370.8	364.5	359.1	356.4	350.1	345.6
155°	413.1	405.0	396.9	395.1	391.5	385.2	378.9	374.4	371.7	365.4	360.9
157.5°	423.9	415.8	409.5	406.8	403.2	397.8	392.4	388.8	387.0	381.6	377.1
160°	433.8	426.6	420.3	417.6	414.9	409.5	405.9	401.4	400.5	396.0	392.4
162.5°	441.9	435.6	430.2	428.4	425.7	421.2	417.6	413.1	412.2	409.5	405.9
165°	450.0	443.7	439.2	437.4	435.6	431.1	428.4	424.8	423.9	422.1	418.5
167.5°	457.2	451.8	447.3	446.4	444.6	441.0	439.2	435.6	434.7	433.8	430.2
170°	462.6	458.1	454.5	453.6	451.8	449.1	447.3	444.6	443.7	444.6	441.0
172.5°	467.1	463.5	460.8	459.9	459.0	457.2	455.4	453.6	452.7	454.5	450.9
175°	471.6	468.0	466.2	465.3	465.3	463.5	462.6	460.8	460.8	462.6	459.9
177.5°	474.3	471.6	469.8	469.8	468.9	468.0	468.0	466.2	468.0	469.8	467.1
180°	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2



TEST NUMBER: P303135

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0
2.5°	523.8	522.0	522.0	521.1	520.2	519.3	519.3	519.3
5°	521.1	520.2	519.3	517.5	517.5	518.4	519.3	519.3
7.5°	516.6	516.6	515.7	514.8	513.9	515.7	515.7	516.6
10°	512.1	511.2	510.3	509.4	508.5	509.4	509.4	509.4
12.5°	504.9	504.0	503.1	501.3	501.3	502.2	502.2	504.0
15°	496.8	495.9	494.1	494.1	493.2	494.1	494.1	495.0
17.5°	486.9	485.1	484.2	483.3	483.3	484.2	484.2	483.3
20°	475.2	473.4	471.6	470.7	470.7	471.6	471.6	473.4
22.5°	461.7	459.9	459.0	458.1	458.1	459.0	459.0	459.9
25°	449.1	447.3	446.4	445.5	445.5	445.5	445.5	446.4
27.5°	435.6	432.9	431.1	431.1	430.2	430.2	430.2	431.1
30°	419.4	416.7	415.8	415.8	414.9	414.9	414.9	415.8
32.5°	403.2	401.4	400.5	399.6	398.7	399.6	398.7	399.6
35°	387.0	384.3	384.3	384.3	383.4	383.4	382.5	383.4
37.5°	370.8	368.1	367.2	367.2	366.3	366.3	366.3	367.2
40°	353.7	351.0	351.0	350.1	349.2	349.2	349.2	350.1
42.5°	335.7	333.9	333.0	333.0	332.1	332.1	332.1	332.1
45°	317.7	315.0	315.0	315.9	314.1	314.1	314.1	314.1
47.5°	299.7	297.9	297.9	297.9	296.1	296.1	296.1	296.1
50°	281.7	280.8	279.9	279.9	279.9	279.0	279.0	279.0
52.5°	263.7	262.8	261.9	262.8	261.0	261.0	261.0	261.0
55°	244.8	243.9	243.9	244.8	243.0	243.0	242.1	243.0
57.5°	224.1	223.2	223.2	223.2	223.2	222.3	222.3	222.3
60°	206.1	205.2	205.2	205.2	204.3	204.3	204.3	204.3
62.5°	187.2	187.2	187.2	186.3	186.3	185.4	185.4	186.3
65°	169.2	168.3	168.3	168.3	167.4	167.4	166.5	166.5
67.5°	150.3	150.3	150.3	149.4	149.4	148.5	148.5	149.4
70°	132.3	132.3	131.4	131.4	131.4	130.5	130.5	131.4
72.5°	114.3	113.4	113.4	112.5	113.4	111.6	111.6	112.5
75°	95.4	95.4	94.5	94.5	94.5	93.6	93.6	93.6
77.5°	77.4	77.4	76.5	76.5	76.5	75.6	75.6	75.6
80°	59.4	58.5	58.5	58.5	58.5	57.6	56.7	57.6
82.5°	40.5	40.5	40.5	40.5	39.6	38.7	37.8	38.7
85°	23.4	22.5	22.5	23.4	22.5	22.5	22.5	21.6
87.5°	8.1	7.2	7.2	7.2	7.2	8.1	7.2	7.2
90°	1.8	1.8	1.8	2.7	2.7	2.7	2.7	2.7
92.5°	9.0	9.0	8.1	8.1	8.1	8.1	7.2	7.2
95°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
97.5°	29.7	29.7	28.8	28.8	28.8	28.8	28.8	28.8
100°	36.9	37.8	37.8	37.8	38.7	38.7	38.7	38.7
102.5°	43.2	43.2	44.1	44.1	44.1	45.0	45.0	45.0
105°	49.5	50.4	50.4	50.4	51.3	51.3	52.2	52.2
107.5°	59.4	59.4	59.4	59.4	60.3	60.3	60.3	60.3
110°	72.9	72.9	72.0	71.1	71.1	71.1	70.2	70.2



TEST NUMBER: P303135

CATALOG NUMBER: CTW-F-5050-30L940-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	81.9	83.7	83.7	84.6	85.5	85.5	85.5	85.5
115°	89.1	90.9	91.8	92.7	93.6	93.6	94.5	94.5
117.5°	96.3	97.2	98.1	99.0	99.9	100.8	100.8	101.7
120°	103.5	104.4	105.3	105.3	106.2	107.1	107.1	107.1
122.5°	111.6	112.5	111.6	111.6	112.5	112.5	112.5	113.4
125°	122.4	121.5	120.6	120.6	119.7	119.7	119.7	119.7
127.5°	136.8	135.0	133.2	131.4	130.5	129.6	128.7	128.7
130°	154.8	151.2	148.5	146.7	144.9	143.1	141.3	141.3
132.5°	175.5	171.0	168.3	165.6	162.9	160.2	157.5	158.4
135°	197.1	193.5	189.9	187.2	183.6	180.0	178.2	178.2
137.5°	217.8	213.3	210.6	208.8	206.1	202.5	199.8	200.7
140°	241.2	233.1	231.3	229.5	226.8	223.2	221.4	221.4
142.5°	261.9	255.6	253.8	252.9	249.3	245.7	243.9	244.8
145°	282.6	276.3	275.4	273.6	270.9	267.3	265.5	265.5
147.5°	302.4	297.0	296.1	294.3	291.6	288.0	286.2	286.2
150°	322.2	316.8	315.0	314.1	311.4	307.8	306.0	306.9
152.5°	340.2	334.8	333.9	333.0	329.4	327.6	325.8	326.7
155°	357.3	351.9	351.0	350.1	348.3	345.6	344.7	345.6
157.5°	373.5	369.0	368.1	367.2	365.4	362.7	361.8	363.6
160°	388.8	385.2	384.3	383.4	382.5	380.7	378.9	379.8
162.5°	403.2	399.6	399.6	398.7	397.8	396.0	395.1	396.0
165°	416.7	414.0	413.1	412.2	411.3	410.4	409.5	408.6
167.5°	429.3	425.7	425.7	423.9	423.9	423.0	422.1	422.1
170°	440.1	437.4	437.4	435.6	435.6	434.7	433.8	433.8
172.5°	450.0	448.2	447.3	447.3	447.3	446.4	445.5	445.5
175°	459.9	458.1	457.2	456.3	456.3	455.4	454.5	455.4
177.5°	468.0	467.1	466.2	465.3	465.3	463.5	462.6	461.7
180°	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2

(END OF REPORT)