

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: P303183

Luminaire Tested: **CTW-F-7525-20L840-UNV-STD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-7525-20L840-UNV-STD-4
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
75% UPLIGHT, 25% DOWNLIGHT, 2000 LUMEN PACKAGE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

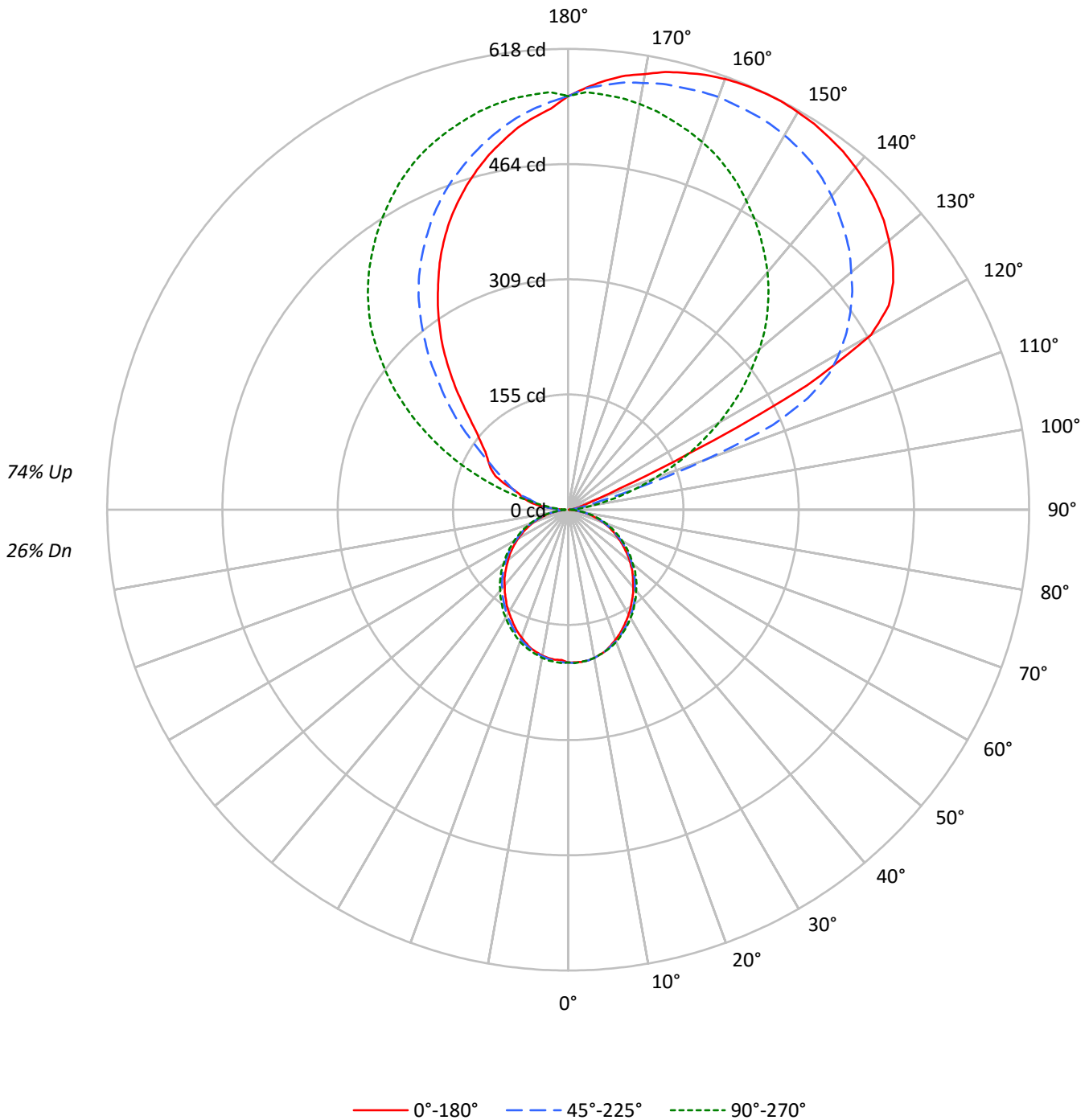
Lumens per Lamp: N/A
Luminaire Lumens: 2115.6 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.32
Luminous Opening: Rectangular (W 4' x L: 0.12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 16.8
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	76	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	66	75	69	64	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	55	68	60	54	50	47	43	39	35	32	30	23	22	20	15
4	70	59	52	46	62	53	47	42	42	37	33	31	28	25	21	19	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	19	17	15	11
6	59	47	39	34	52	42	36	31	33	28	25	25	21	19	17	15	13	10
7	54	42	35	29	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	38	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4411	4411	4411
5°	4428	4428	4361
10°	4411	4411	4346
15°	4362	4362	4293
20°	4250	4321	4179
25°	4140	4238	4067
30°	4030	4156	3952
35°	3911	4071	3832
40°	3811	3982	3724
45°	3723	3909	3632
50°	3617	3788	3517
55°	3483	3712	3442
60°	3380	3599	3337
65°	3270	3530	3219
70°	3141	3399	3078
75°	2886	3219	2886
80°	2529	3037	2529
85°	1754	2766	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	0.9
10°-20°	54.7	2.6
20°-30°	80.8	3.8
30°-40°	94.8	4.5
40°-50°	96.1	4.5
50°-60°	85.6	4.0
60°-70°	65.7	3.1
70°-80°	39.0	1.8
80°-90°	11.0	0.5
90°-100°	16.6	0.8
100°-110°	67.6	3.2
110°-120°	189.5	9.0
120°-130°	276.4	13.1
130°-140°	297.7	14.1
140°-150°	283.6	13.4
150°-160°	232.7	11.0
160°-170°	152.0	7.2
170°-180°	52.7	2.5
0°-30°	154.8	7.3
0°-40°	249.6	11.8
0°-60°	431.3	20.4
0°-90°	546.9	25.9
90°-120°	273.7	12.9
90°-150°	1131.3	53.5
90°-180°	1569.0	74.2
0°-180°	2115.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	205	205	205	205	205	
5°	205	205	205	204	202	19
15°	196	196	196	194	193	55
25°	174	177	178	175	171	80
35°	149	154	155	151	146	93
45°	122	125	128	124	119	94
55°	93	96	99	96	92	83
65°	64	66	69	66	63	64
75°	35	37	39	37	35	37
85°	7	9	11	9	8	9
90°	1	1	1	4	6	1
95°	4	5	12	22	22	4
105°	18	45	73	53	63	21
115°	179	355	178	95	108	212
125°	532	462	286	153	136	471
135°	584	525	378	248	199	451
145°	610	569	448	350	301	382
155°	618	586	504	431	396	286
165°	606	586	540	493	472	172
175°	578	572	558	539	528	56
180°	554	554	554	554	554	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9
2.5°	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	205.9	205.9
5°	204.9	204.9	204.9	204.9	204.9	204.9	204.9	203.8	204.9	204.9	204.9
7.5°	203.8	203.8	203.8	203.8	203.8	203.8	202.8	202.8	202.8	203.8	203.8
10°	201.8	201.8	201.8	200.8	200.8	201.8	200.8	200.8	201.8	201.8	201.8
12.5°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	197.7	198.8	199.8	198.8
15°	195.7	195.7	195.7	195.7	195.7	195.7	195.7	194.7	195.7	196.7	195.7
17.5°	190.6	190.6	190.6	190.6	191.6	191.6	191.6	190.6	191.6	192.6	191.6
20°	185.5	185.5	185.5	186.5	186.5	186.5	186.5	186.5	186.5	187.5	187.5
22.5°	180.4	180.4	180.4	180.4	181.4	181.4	181.4	180.4	181.4	182.4	182.4
25°	174.3	174.3	174.3	174.3	175.3	175.3	175.3	175.3	176.3	177.3	177.3
27.5°	168.2	168.2	168.2	169.2	170.2	170.2	170.2	170.2	170.2	171.2	172.3
30°	162.1	162.1	162.1	163.1	163.1	164.1	164.1	164.1	164.1	165.1	166.1
32.5°	155.9	155.9	155.9	157.0	157.0	157.0	158.0	158.0	158.0	159.0	160.0
35°	148.8	149.8	149.8	149.8	150.8	150.8	150.8	150.8	151.9	152.9	153.9
37.5°	142.7	142.7	142.7	142.7	143.7	143.7	143.7	144.7	144.7	145.8	146.8
40°	135.6	135.6	135.6	136.6	136.6	136.6	137.6	137.6	138.6	139.6	139.6
42.5°	128.4	128.4	128.4	129.4	129.4	129.4	130.5	131.5	131.5	132.5	132.5
45°	122.3	121.3	122.3	122.3	122.3	122.3	123.3	123.3	124.3	125.4	125.4
47.5°	115.2	114.2	115.2	115.2	115.2	115.2	116.2	116.2	117.2	117.2	118.2
50°	108.0	107.0	108.0	108.0	108.0	108.0	109.1	109.1	110.1	110.1	111.1
52.5°	100.9	100.9	100.9	100.9	100.9	100.9	100.9	101.9	102.9	102.9	104.0
55°	92.8	92.8	93.8	93.8	93.8	93.8	93.8	94.8	94.8	95.8	95.8
57.5°	85.6	85.6	85.6	86.6	86.6	86.6	86.6	87.7	87.7	88.7	88.7
60°	78.5	78.5	78.5	78.5	79.5	79.5	79.5	79.5	80.5	81.5	81.5
62.5°	71.3	71.3	71.3	71.3	72.4	72.4	71.3	72.4	72.4	73.4	73.4
65°	64.2	64.2	64.2	64.2	64.2	64.2	64.2	65.2	65.2	66.3	66.3
67.5°	57.1	56.1	57.1	57.1	57.1	57.1	57.1	58.1	58.1	58.1	59.1
70°	49.9	48.9	48.9	48.9	49.9	49.9	49.9	51.0	49.9	51.0	51.0
72.5°	41.8	41.8	41.8	41.8	41.8	42.8	42.8	42.8	42.8	43.8	43.8
75°	34.7	34.7	34.7	34.7	34.7	34.7	35.7	35.7	35.7	36.7	36.7
77.5°	27.5	27.5	27.5	27.5	27.5	27.5	28.5	28.5	28.5	28.5	29.6
80°	20.4	20.4	20.4	20.4	20.4	20.4	21.4	21.4	21.4	21.4	22.4
82.5°	13.3	13.3	13.3	14.3	13.3	14.3	14.3	14.3	14.3	14.3	15.3
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.2	8.2	9.2
87.5°	2.0	1.0	1.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
90°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
92.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
95°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.1	5.1
97.5°	6.1	6.1	6.1	6.1	6.1	7.1	7.1	7.1	7.1	8.2	9.2
100°	9.2	9.2	9.2	9.2	10.2	10.2	10.2	11.2	11.2	13.3	14.3
102.5°	13.3	13.3	13.3	13.3	14.3	14.3	15.3	16.3	17.3	20.4	25.5
105°	18.3	18.3	18.3	19.4	20.4	20.4	21.4	23.4	27.5	33.6	44.8
107.5°	25.5	25.5	26.5	27.5	29.6	30.6	32.6	39.8	48.9	65.2	97.8
110°	38.7	38.7	40.8	43.8	49.9	54.0	61.2	80.5	109.1	150.8	195.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	73.4	74.4	82.6	88.7	109.1	124.3	145.8	188.6	232.4	270.1	296.6
115°	179.4	182.4	202.8	214.0	259.9	269.1	292.5	333.3	352.7	357.8	354.7
117.5°	360.8	361.8	376.1	385.3	402.6	408.7	410.8	417.9	413.8	405.7	394.4
120°	468.8	466.8	468.8	465.8	466.8	464.8	461.7	455.6	445.4	434.2	419.9
122.5°	509.6	508.6	506.6	500.4	497.4	493.3	488.2	481.1	470.9	456.6	442.3
125°	532.0	531.0	529.0	522.9	517.8	513.7	509.6	501.5	489.2	477.0	461.7
127.5°	548.3	547.3	544.3	540.2	534.1	530.0	525.9	517.8	505.5	493.3	480.1
130°	561.6	560.6	557.5	554.5	548.3	545.3	541.2	533.1	520.8	508.6	495.3
132.5°	573.8	572.8	570.8	567.7	561.6	557.5	554.5	547.3	534.1	521.8	511.7
135°	584.0	582.0	582.0	577.9	571.8	568.7	565.7	558.5	546.3	535.1	524.9
137.5°	592.2	591.2	589.1	586.1	581.0	577.9	574.8	567.7	557.5	546.3	537.1
140°	599.3	598.3	597.3	594.2	589.1	586.1	584.0	575.9	566.7	557.5	549.4
142.5°	605.4	604.4	602.4	600.3	595.2	593.2	591.2	584.0	573.8	566.7	559.6
145°	609.5	609.5	607.5	605.4	601.3	599.3	597.3	589.1	581.0	574.8	568.7
147.5°	613.6	613.6	610.5	609.5	606.4	604.4	602.4	594.2	586.1	581.0	574.8
150°	615.6	615.6	613.6	611.5	608.5	607.5	605.4	598.3	591.2	587.1	579.9
152.5°	617.7	617.7	615.6	613.6	610.5	609.5	606.4	601.3	594.2	590.1	584.0
155°	617.7	618.7	615.6	613.6	611.5	610.5	607.5	601.3	596.3	593.2	586.1
157.5°	616.6	616.6	615.6	613.6	610.5	609.5	606.4	600.3	596.3	595.2	587.1
160°	614.6	614.6	613.6	610.5	609.5	607.5	604.4	600.3	597.3	595.2	589.1
162.5°	611.5	610.5	609.5	607.5	606.4	605.4	603.4	598.3	595.2	594.2	588.1
165°	606.4	605.4	604.4	603.4	602.4	601.3	599.3	594.2	593.2	592.2	586.1
167.5°	601.3	599.3	598.3	596.3	596.3	594.2	593.2	590.1	589.1	589.1	585.0
170°	593.2	592.2	591.2	590.1	590.1	589.1	588.1	584.0	584.0	585.0	581.0
172.5°	587.1	585.0	585.0	584.0	584.0	583.0	582.0	578.9	578.9	579.9	577.9
175°	577.9	576.9	575.9	574.8	574.8	574.8	573.8	571.8	572.8	573.8	571.8
177.5°	566.7	563.6	564.7	564.7	566.7	565.7	565.7	563.6	564.7	566.7	565.7
180°	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9
2.5°	203.8	203.8	202.8	203.8	203.8	203.8	204.9	204.9	205.9	205.9	205.9
5°	203.8	202.8	202.8	202.8	203.8	203.8	203.8	204.9	204.9	204.9	204.9
7.5°	201.8	201.8	201.8	201.8	201.8	202.8	202.8	202.8	203.8	203.8	202.8
10°	200.8	199.8	199.8	199.8	200.8	200.8	200.8	201.8	201.8	201.8	200.8
12.5°	197.7	197.7	196.7	197.7	197.7	197.7	197.7	198.8	198.8	198.8	198.8
15°	194.7	194.7	193.7	194.7	194.7	194.7	194.7	195.7	196.7	195.7	195.7
17.5°	190.6	190.6	190.6	190.6	190.6	191.6	191.6	192.6	192.6	192.6	191.6
20°	186.5	186.5	186.5	186.5	186.5	186.5	187.5	187.5	188.6	188.6	187.5
22.5°	181.4	181.4	181.4	181.4	182.4	182.4	182.4	183.5	183.5	183.5	182.4
25°	177.3	176.3	176.3	176.3	177.3	177.3	177.3	178.4	178.4	178.4	178.4
27.5°	171.2	171.2	170.2	171.2	171.2	172.3	172.3	173.3	173.3	173.3	172.3
30°	166.1	165.1	165.1	165.1	166.1	166.1	167.2	167.2	168.2	167.2	167.2
32.5°	160.0	160.0	159.0	160.0	160.0	160.0	161.0	161.0	162.1	162.1	161.0
35°	153.9	152.9	152.9	153.9	153.9	153.9	154.9	154.9	155.9	154.9	154.9
37.5°	147.8	146.8	146.8	146.8	146.8	147.8	148.8	148.8	148.8	148.8	148.8
40°	140.7	140.7	140.7	140.7	140.7	140.7	141.7	141.7	142.7	141.7	141.7
42.5°	134.5	133.5	133.5	133.5	133.5	134.5	134.5	135.6	135.6	135.6	134.5
45°	127.4	127.4	127.4	126.4	126.4	127.4	128.4	128.4	128.4	128.4	127.4
47.5°	120.3	119.3	120.3	120.3	119.3	120.3	121.3	121.3	121.3	121.3	120.3
50°	112.1	112.1	112.1	113.1	112.1	113.1	114.2	114.2	114.2	113.1	113.1
52.5°	104.0	105.0	106.0	106.0	105.0	106.0	106.0	106.0	106.0	106.0	106.0
55°	96.8	97.8	97.8	97.8	97.8	98.9	98.9	98.9	98.9	98.9	98.9
57.5°	89.7	89.7	90.7	90.7	90.7	90.7	90.7	91.7	90.7	90.7	90.7
60°	81.5	82.6	83.6	83.6	83.6	83.6	83.6	84.6	83.6	83.6	83.6
62.5°	74.4	74.4	75.4	76.4	75.4	76.4	76.4	76.4	76.4	76.4	76.4
65°	67.3	67.3	68.3	68.3	68.3	68.3	68.3	69.3	68.3	69.3	69.3
67.5°	59.1	60.1	60.1	61.2	61.2	61.2	61.2	62.2	62.2	61.2	61.2
70°	52.0	52.0	53.0	53.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
72.5°	43.8	44.8	44.8	45.9	45.9	45.9	45.9	46.9	46.9	46.9	46.9
75°	36.7	37.7	37.7	38.7	37.7	38.7	38.7	38.7	39.8	38.7	39.8
77.5°	29.6	30.6	30.6	30.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
80°	22.4	23.4	23.4	23.4	24.5	24.5	24.5	24.5	24.5	24.5	24.5
82.5°	15.3	16.3	16.3	16.3	16.3	17.3	17.3	17.3	17.3	17.3	17.3
85°	9.2	9.2	9.2	10.2	10.2	10.2	10.2	11.2	11.2	11.2	11.2
87.5°	3.1	3.1	3.1	4.1	4.1	4.1	4.1	4.1	4.1	5.1	5.1
90°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
92.5°	3.1	3.1	3.1	3.1	4.1	4.1	6.1	6.1	5.1	5.1	5.1
95°	6.1	6.1	8.2	10.2	12.2	14.3	16.3	16.3	14.3	12.2	11.2
97.5°	10.2	13.3	17.3	23.4	26.5	30.6	33.6	30.6	26.5	22.4	20.4
100°	18.3	24.5	34.7	46.9	52.0	56.1	57.1	51.0	42.8	34.7	31.6
102.5°	34.7	46.9	68.3	84.6	88.7	91.7	86.6	75.4	64.2	52.0	45.9
105°	66.3	93.8	123.3	131.5	133.5	131.5	120.3	104.0	88.7	73.4	64.2
107.5°	135.6	167.2	185.5	181.4	176.3	170.2	153.9	134.5	116.2	96.8	85.6
110°	225.3	238.5	237.5	223.2	213.0	203.8	186.5	165.1	143.7	123.3	109.1



TEST NUMBER: P303183

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	299.7	292.5	278.3	257.9	246.7	235.4	217.1	195.7	172.3	150.8	135.6
115°	344.5	329.2	309.8	291.5	280.3	268.1	246.7	224.2	200.8	178.4	162.1
117.5°	376.1	358.8	340.4	320.0	308.8	297.6	277.2	251.8	228.3	205.9	188.6
120°	401.6	383.2	363.9	345.5	335.3	325.1	303.7	280.3	254.8	233.4	214.0
122.5°	425.0	406.7	389.3	370.0	358.8	349.6	327.2	304.8	282.3	259.9	239.5
125°	446.4	430.1	409.7	391.4	382.2	372.0	350.6	328.2	307.8	286.4	267.0
127.5°	465.8	449.5	431.1	410.8	401.6	392.4	370.0	349.6	331.3	309.8	291.5
130°	483.1	466.8	449.5	430.1	422.0	411.8	391.4	371.0	353.7	334.3	314.9
132.5°	499.4	483.1	465.8	447.4	438.3	429.1	411.8	391.4	375.1	357.8	338.4
135°	513.7	497.4	480.1	461.7	453.6	445.4	428.1	410.8	393.4	378.1	359.8
137.5°	525.9	510.6	493.3	476.0	468.8	460.7	444.4	428.1	412.8	397.5	380.2
140°	537.1	521.8	504.5	488.2	481.1	475.0	458.7	444.4	431.1	415.8	399.5
142.5°	547.3	531.0	514.7	499.4	493.3	487.2	472.9	459.7	447.4	432.2	417.9
145°	555.5	539.2	523.9	509.6	505.5	498.4	485.2	473.9	461.7	448.5	435.2
147.5°	563.6	548.3	533.1	519.8	515.7	509.6	498.4	487.2	476.0	463.8	451.5
150°	568.7	554.5	541.2	530.0	525.9	519.8	508.6	499.4	490.3	478.0	465.8
152.5°	572.8	559.6	547.3	538.2	535.1	530.0	519.8	512.7	502.5	492.3	481.1
155°	575.9	563.6	553.4	545.3	542.2	539.2	529.0	522.9	513.7	504.5	494.3
157.5°	577.9	566.7	557.5	551.4	548.3	545.3	536.1	531.0	523.9	515.7	505.5
160°	578.9	568.7	561.6	556.5	553.4	550.4	544.3	538.2	531.0	524.9	516.8
162.5°	578.9	570.8	563.6	559.6	557.5	555.5	549.4	544.3	539.2	533.1	525.9
165°	578.9	571.8	565.7	562.6	560.6	559.6	553.4	550.4	545.3	540.2	534.1
167.5°	576.9	570.8	566.7	564.7	562.6	561.6	557.5	553.4	550.4	547.3	541.2
170°	574.8	569.8	565.7	564.7	563.6	562.6	559.6	557.5	555.5	552.4	547.3
172.5°	571.8	567.7	564.7	563.6	563.6	562.6	560.6	559.6	558.5	556.5	552.4
175°	566.7	563.6	560.6	561.6	561.6	561.6	559.6	560.6	559.6	558.5	555.5
177.5°	560.6	558.5	557.5	558.5	558.5	558.5	558.5	559.6	560.6	560.6	557.5
180°	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5



TEST NUMBER: P303183

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9
2.5°	203.8	202.8	202.8	202.8	203.8	203.8	203.8	203.8	204.9	204.9	204.9
5°	202.8	201.8	201.8	201.8	202.8	202.8	202.8	202.8	203.8	203.8	203.8
7.5°	201.8	200.8	200.8	200.8	200.8	201.8	201.8	200.8	201.8	202.8	201.8
10°	199.8	198.8	198.8	198.8	198.8	199.8	199.8	198.8	199.8	199.8	199.8
12.5°	196.7	195.7	195.7	195.7	196.7	196.7	196.7	195.7	196.7	197.7	196.7
15°	193.7	192.6	192.6	192.6	192.6	193.7	193.7	192.6	193.7	193.7	192.6
17.5°	190.6	189.6	188.6	188.6	189.6	189.6	189.6	188.6	189.6	189.6	188.6
20°	185.5	184.5	184.5	184.5	185.5	185.5	184.5	184.5	185.5	184.5	184.5
22.5°	181.4	180.4	180.4	180.4	180.4	180.4	180.4	179.4	180.4	179.4	179.4
25°	176.3	175.3	175.3	175.3	175.3	175.3	174.3	174.3	175.3	174.3	173.3
27.5°	171.2	170.2	170.2	170.2	170.2	170.2	169.2	169.2	169.2	168.2	168.2
30°	165.1	165.1	164.1	164.1	164.1	164.1	163.1	163.1	164.1	163.1	162.1
32.5°	160.0	159.0	159.0	159.0	159.0	158.0	157.0	157.0	157.0	157.0	155.9
35°	152.9	152.9	152.9	152.9	151.9	151.9	150.8	151.9	150.8	149.8	149.8
37.5°	146.8	146.8	145.8	145.8	145.8	145.8	144.7	145.8	144.7	143.7	142.7
40°	140.7	139.6	139.6	139.6	139.6	138.6	138.6	138.6	137.6	136.6	136.6
42.5°	133.5	133.5	132.5	133.5	132.5	132.5	131.5	132.5	131.5	130.5	129.4
45°	126.4	126.4	126.4	126.4	126.4	125.4	125.4	125.4	124.3	123.3	122.3
47.5°	119.3	119.3	119.3	120.3	119.3	118.2	118.2	118.2	117.2	116.2	115.2
50°	112.1	112.1	112.1	112.1	112.1	111.1	111.1	110.1	110.1	109.1	108.0
52.5°	105.0	105.0	105.0	106.0	105.0	104.0	104.0	104.0	102.9	101.9	100.9
55°	97.8	97.8	98.9	97.8	97.8	97.8	96.8	96.8	95.8	94.8	93.8
57.5°	90.7	90.7	90.7	90.7	90.7	89.7	89.7	89.7	88.7	87.7	86.6
60°	83.6	83.6	83.6	83.6	82.6	82.6	82.6	81.5	80.5	79.5	79.5
62.5°	75.4	76.4	76.4	75.4	75.4	75.4	74.4	74.4	73.4	73.4	72.4
65°	68.3	69.3	68.3	68.3	68.3	68.3	67.3	67.3	66.3	65.2	65.2
67.5°	61.2	61.2	61.2	61.2	61.2	60.1	60.1	59.1	59.1	58.1	58.1
70°	54.0	54.0	53.0	53.0	54.0	53.0	52.0	52.0	52.0	51.0	51.0
72.5°	46.9	46.9	45.9	45.9	45.9	45.9	44.8	44.8	43.8	43.8	42.8
75°	38.7	38.7	38.7	38.7	38.7	37.7	37.7	37.7	36.7	36.7	35.7
77.5°	31.6	31.6	31.6	31.6	31.6	30.6	30.6	30.6	30.6	29.6	29.6
80°	24.5	24.5	24.5	24.5	24.5	23.4	23.4	23.4	22.4	22.4	21.4
82.5°	17.3	17.3	17.3	17.3	17.3	16.3	16.3	16.3	15.3	15.3	15.3
85°	11.2	10.2	10.2	10.2	10.2	10.2	9.2	9.2	9.2	9.2	8.2
87.5°	5.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.1	4.1
90°	1.0	2.0	2.0	3.1	3.1	3.1	3.1	4.1	4.1	4.1	4.1
92.5°	8.2	10.2	10.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
95°	13.3	15.3	19.4	20.4	21.4	23.4	23.4	23.4	22.4	22.4	22.4
97.5°	19.4	22.4	22.4	24.5	25.5	29.6	32.6	33.6	35.7	35.7	35.7
100°	29.6	28.5	31.6	33.6	33.6	33.6	35.7	39.8	41.8	43.8	44.8
102.5°	42.8	38.7	38.7	39.8	41.8	45.9	42.8	43.8	45.9	47.9	51.0
105°	57.1	53.0	49.9	48.9	49.9	53.0	56.1	55.0	53.0	54.0	56.1
107.5°	75.4	68.3	62.2	61.2	61.2	61.2	64.2	67.3	69.3	67.3	65.2
110°	96.8	85.6	79.5	74.4	73.4	72.4	72.4	74.4	78.5	81.5	82.6



TEST NUMBER: P303183

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	120.3	107.0	96.8	91.7	88.7	84.6	83.6	83.6	85.6	89.7	92.8
115°	144.7	130.5	117.2	112.1	107.0	99.9	96.8	94.8	94.8	96.8	99.9
117.5°	170.2	154.9	140.7	132.5	128.4	118.2	111.1	107.0	106.0	106.0	108.0
120°	195.7	181.4	165.1	155.9	150.8	139.6	129.4	121.3	118.2	117.2	116.2
122.5°	221.2	205.9	190.6	181.4	175.3	162.1	151.9	139.6	134.5	129.4	128.4
125°	246.7	231.4	215.1	207.9	199.8	185.5	174.3	162.1	152.9	145.8	140.7
127.5°	273.2	255.8	239.5	234.4	225.3	211.0	198.8	186.5	176.3	166.1	159.0
130°	296.6	282.3	267.0	258.9	250.7	236.5	222.2	210.0	200.8	190.6	181.4
132.5°	320.0	305.8	291.5	286.4	278.3	261.9	248.7	234.4	224.2	214.0	205.9
135°	341.4	327.2	313.9	308.8	301.7	287.4	275.2	260.9	247.7	238.5	230.3
137.5°	361.8	348.6	335.3	330.2	324.1	310.9	299.7	287.4	275.2	266.0	253.8
140°	382.2	369.0	356.7	351.6	345.5	333.3	321.1	311.9	299.7	290.5	281.3
142.5°	401.6	388.3	376.1	371.0	366.9	354.7	343.5	335.3	325.1	314.9	306.8
145°	419.9	405.7	395.5	390.4	386.3	375.1	364.9	357.8	349.6	339.4	331.3
147.5°	436.2	423.0	412.8	409.7	405.7	396.5	386.3	378.1	372.0	362.8	354.7
150°	451.5	439.3	430.1	427.1	424.0	413.8	404.6	397.5	392.4	384.3	376.1
152.5°	467.8	455.6	447.4	444.4	440.3	432.2	424.0	415.8	411.8	405.7	397.5
155°	481.1	470.9	462.7	459.7	455.6	449.5	440.3	434.2	431.1	424.0	416.9
157.5°	494.3	484.1	477.0	473.9	470.9	464.8	456.6	450.5	448.5	442.3	436.2
160°	505.5	496.4	489.2	486.2	484.1	479.0	471.9	465.8	464.8	460.7	454.6
162.5°	515.7	506.6	501.5	498.4	496.4	493.3	486.2	480.1	479.0	476.0	470.9
165°	523.9	515.7	511.7	509.6	508.6	505.5	499.4	493.3	493.3	491.3	485.2
167.5°	533.1	524.9	520.8	519.8	518.8	515.7	511.7	506.6	506.6	504.5	499.4
170°	540.2	533.1	530.0	529.0	528.0	525.9	522.9	517.8	518.8	516.8	512.7
172.5°	545.3	540.2	538.2	536.1	536.1	535.1	533.1	529.0	530.0	529.0	524.9
175°	549.4	544.3	544.3	542.2	543.3	543.3	540.2	537.1	539.2	540.2	536.1
177.5°	552.4	548.3	548.3	548.3	549.4	549.4	548.3	545.3	547.3	549.4	545.3
180°	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5



TEST NUMBER: P303183

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	204.9	204.9	204.9	204.9	204.9	204.9	204.9	204.9
2.5°	204.9	204.9	204.9	203.8	204.9	202.8	201.8	201.8
5°	202.8	202.8	202.8	202.8	202.8	202.8	201.8	201.8
7.5°	201.8	201.8	200.8	200.8	201.8	201.8	200.8	200.8
10°	198.8	198.8	198.8	198.8	199.8	198.8	198.8	198.8
12.5°	196.7	195.7	195.7	195.7	196.7	195.7	195.7	195.7
15°	192.6	192.6	192.6	192.6	193.7	192.6	192.6	192.6
17.5°	188.6	188.6	188.6	188.6	189.6	188.6	187.5	187.5
20°	184.5	183.5	183.5	183.5	183.5	183.5	182.4	182.4
22.5°	178.4	178.4	178.4	178.4	178.4	177.3	177.3	177.3
25°	173.3	172.3	172.3	173.3	172.3	172.3	171.2	171.2
27.5°	167.2	167.2	167.2	167.2	167.2	166.1	165.1	165.1
30°	162.1	161.0	161.0	161.0	161.0	160.0	159.0	159.0
32.5°	155.9	154.9	154.9	154.9	154.9	152.9	152.9	152.9
35°	148.8	148.8	148.8	148.8	147.8	146.8	146.8	145.8
37.5°	142.7	141.7	141.7	141.7	140.7	140.7	139.6	139.6
40°	135.6	135.6	135.6	135.6	134.5	133.5	132.5	132.5
42.5°	128.4	128.4	128.4	128.4	127.4	126.4	126.4	126.4
45°	122.3	121.3	121.3	121.3	120.3	120.3	119.3	119.3
47.5°	115.2	115.2	114.2	114.2	114.2	113.1	112.1	112.1
50°	108.0	108.0	108.0	107.0	106.0	106.0	106.0	105.0
52.5°	100.9	100.9	100.9	99.9	99.9	98.9	98.9	98.9
55°	93.8	93.8	93.8	92.8	92.8	91.7	91.7	91.7
57.5°	86.6	86.6	86.6	85.6	85.6	84.6	84.6	84.6
60°	79.5	79.5	78.5	78.5	78.5	77.5	77.5	77.5
62.5°	72.4	71.3	71.3	71.3	71.3	70.3	70.3	70.3
65°	65.2	64.2	64.2	64.2	64.2	63.2	63.2	63.2
67.5°	58.1	57.1	57.1	57.1	57.1	56.1	56.1	56.1
70°	49.9	49.9	49.9	49.9	49.9	48.9	48.9	48.9
72.5°	42.8	42.8	42.8	42.8	41.8	41.8	41.8	41.8
75°	35.7	35.7	35.7	35.7	34.7	34.7	34.7	34.7
77.5°	28.5	28.5	28.5	28.5	28.5	27.5	27.5	28.5
80°	21.4	21.4	21.4	21.4	21.4	20.4	20.4	20.4
82.5°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	13.3
85°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	3.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
90°	4.1	5.1	5.1	5.1	5.1	6.1	6.1	6.1
92.5°	11.2	12.2	12.2	11.2	12.2	12.2	12.2	12.2
95°	21.4	22.4	22.4	21.4	22.4	22.4	22.4	22.4
97.5°	35.7	35.7	35.7	34.7	35.7	34.7	34.7	34.7
100°	45.9	45.9	46.9	46.9	47.9	47.9	46.9	47.9
102.5°	52.0	53.0	54.0	54.0	55.0	55.0	56.1	56.1
105°	57.1	58.1	59.1	59.1	61.2	62.2	63.2	63.2
107.5°	65.2	65.2	66.3	66.3	67.3	67.3	67.3	68.3
110°	81.5	78.5	77.5	77.5	76.4	76.4	76.4	76.4



TEST NUMBER: P303183

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	94.8	94.8	95.8	95.8	95.8	94.8	92.8	93.8
115°	102.9	105.0	105.0	106.0	106.0	107.0	107.0	108.0
117.5°	109.1	111.1	112.1	113.1	115.2	116.2	116.2	116.2
120°	117.2	118.2	119.3	119.3	120.3	121.3	122.3	122.3
122.5°	127.4	126.4	127.4	127.4	127.4	128.4	128.4	128.4
125°	138.6	137.6	136.6	136.6	135.6	135.6	135.6	135.6
127.5°	153.9	150.8	149.8	148.8	146.8	146.8	145.8	146.8
130°	174.3	169.2	167.2	165.1	161.0	161.0	159.0	159.0
132.5°	197.7	191.6	188.6	186.5	181.4	179.4	177.3	177.3
135°	223.2	217.1	213.0	211.0	204.9	202.8	200.8	198.8
137.5°	247.7	241.6	238.5	237.5	231.4	229.3	225.3	224.2
140°	274.2	268.1	265.0	263.0	255.8	252.8	250.7	249.7
142.5°	299.7	292.5	289.5	288.4	283.3	280.3	277.2	276.2
145°	324.1	317.0	313.9	313.9	307.8	305.8	302.7	300.7
147.5°	348.6	341.4	338.4	338.4	333.3	329.2	327.2	325.1
150°	371.0	364.9	361.8	361.8	356.7	352.7	349.6	348.6
152.5°	391.4	386.3	384.3	384.3	380.2	376.1	374.1	373.0
155°	411.8	407.7	404.6	404.6	401.6	397.5	396.5	395.5
157.5°	432.2	428.1	425.0	426.0	422.0	418.9	416.9	416.9
160°	450.5	447.4	444.4	444.4	442.3	439.3	435.2	436.2
162.5°	468.8	464.8	462.7	462.7	461.7	457.6	453.6	454.6
165°	482.1	480.1	479.0	479.0	478.0	475.0	471.9	471.9
167.5°	496.4	494.3	493.3	493.3	492.3	490.3	487.2	488.2
170°	510.6	508.6	507.6	506.6	506.6	504.5	502.5	502.5
172.5°	523.9	521.8	520.8	520.8	521.8	519.8	516.8	516.8
175°	535.1	534.1	532.0	532.0	532.0	530.0	528.0	528.0
177.5°	545.3	544.3	544.3	543.3	544.3	541.2	538.2	538.2
180°	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5

(END OF REPORT)