

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: P303187

Luminaire Tested: **CTW-F-7525-20L830-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303187
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-7525-20L830-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
75% UPLIGHT, 25% DOWNLIGHT, 2000 LUMEN PACKAGE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

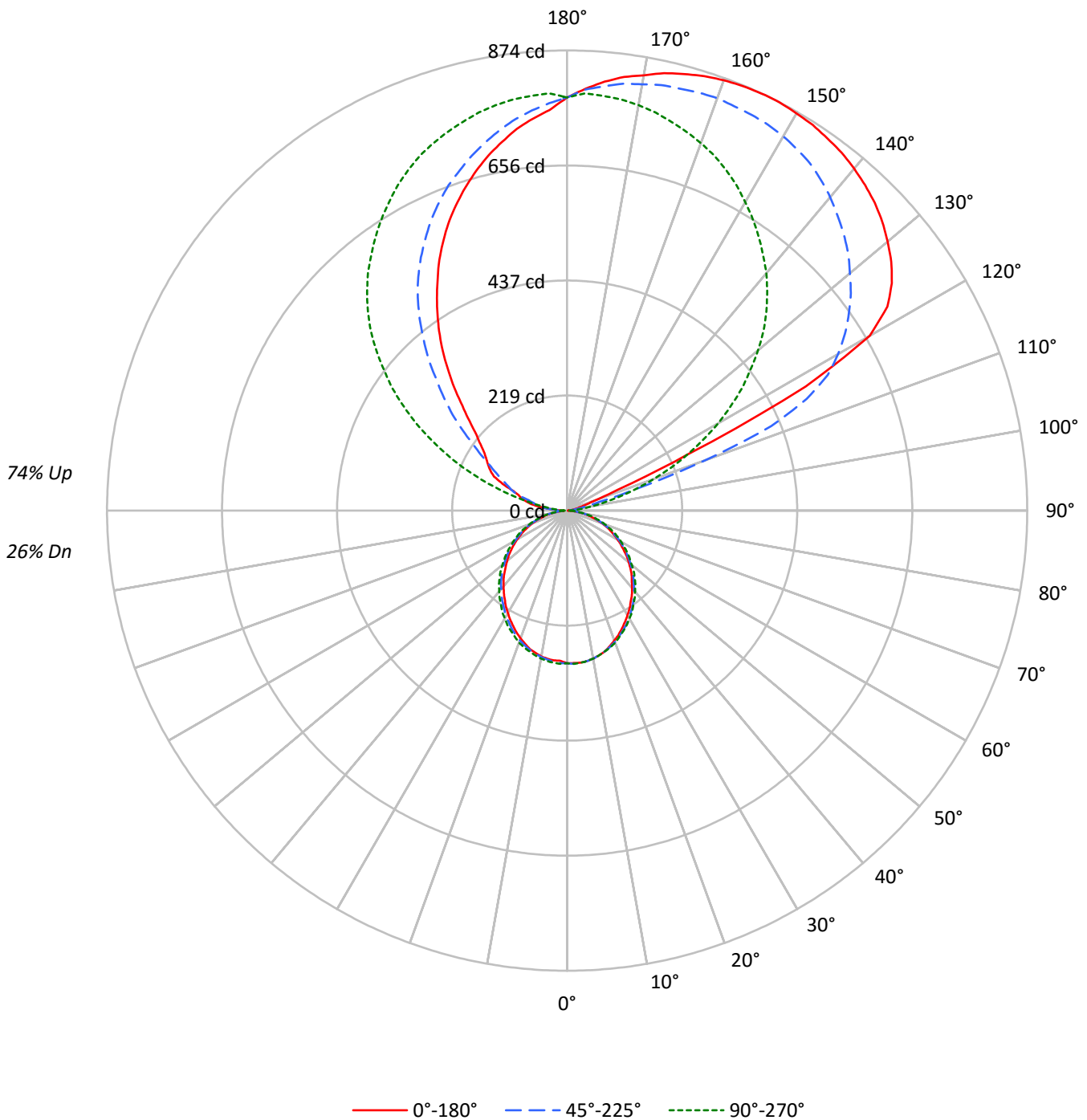
Lumens per Lamp: N/A
Luminaire Lumens: 2993.8 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 23.2
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



TEST NUMBER: P303187
CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-6

Luminous Intensity Polar Plot





TEST NUMBER: P303187

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-6

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°	4161	4161	4161
5°	4177	4177	4115
10°	4162	4162	4099
15°	4114	4114	4050
20°	4009	4075	3943
25°	3905	3997	3837
30°	3800	3919	3729
35°	3690	3840	3614
40°	3593	3756	3513
45°	3513	3688	3426
50°	3414	3575	3318
55°	3285	3501	3248
60°	3189	3396	3146
65°	3087	3331	3036
70°	2967	3206	2904
75°	2717	3039	2717
80°	2380	2860	2380
85°	1663	2618	1894



TEST NUMBER: P303187

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	0.9
10°-20°	77.4	2.6
20°-30°	114.3	3.8
30°-40°	134.1	4.5
40°-50°	135.9	4.5
50°-60°	121.2	4.0
60°-70°	92.9	3.1
70°-80°	55.1	1.8
80°-90°	15.5	0.5
90°-100°	23.5	0.8
100°-110°	95.7	3.2
110°-120°	268.2	9.0
120°-130°	391.1	13.1
130°-140°	421.2	14.1
140°-150°	401.3	13.4
150°-160°	329.3	11.0
160°-170°	215.1	7.2
170°-180°	74.6	2.5
0°-30°	219.1	7.3
0°-40°	353.2	11.8
0°-60°	610.3	20.4
0°-90°	773.9	25.9
90°-120°	387.4	12.9
90°-150°	1600.9	53.5
90°-180°	2220.0	74.2
0°-180°	2993.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	290	290	290	290	290	
5°	290	290	290	288	286	28
15°	277	277	277	274	273	78
25°	247	251	252	248	242	114
35°	211	218	219	214	206	132
45°	173	177	182	176	169	133
55°	131	136	140	136	130	118
65°	91	94	98	94	89	90
75°	49	52	55	52	49	52
85°	10	13	16	13	12	12
90°	1	1	1	6	9	1
95°	6	7	17	32	32	6
105°	26	64	104	75	89	30
115°	254	502	252	134	153	300
125°	753	653	405	216	192	667
135°	826	743	535	350	281	638
145°	862	805	635	495	426	541
155°	874	829	714	610	560	404
165°	858	829	764	698	668	243
175°	818	809	790	763	747	79
180°	785	785	785	785	785	



TEST NUMBER: P303187

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-6

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9
2.5°	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	291.3	291.3
5°	289.9	289.9	289.9	289.9	289.9	289.9	289.9	288.5	289.9	289.9	289.9
7.5°	288.5	288.5	288.5	288.5	288.5	288.5	287.0	287.0	287.0	288.5	288.5
10°	285.6	285.6	285.6	284.1	284.1	285.6	284.1	284.1	285.6	285.6	285.6
12.5°	281.3	281.3	281.3	281.3	281.3	281.3	281.3	279.8	281.3	282.7	281.3
15°	276.9	276.9	276.9	276.9	276.9	276.9	276.9	275.5	276.9	278.4	276.9
17.5°	269.7	269.7	269.7	269.7	271.2	271.2	271.2	269.7	271.2	272.6	271.2
20°	262.5	262.5	262.5	263.9	263.9	263.9	263.9	263.9	263.9	265.4	265.4
22.5°	255.3	255.3	255.3	255.3	256.7	256.7	256.7	255.3	256.7	258.2	258.2
25°	246.6	246.6	246.6	246.6	248.1	248.1	248.1	248.1	249.5	251.0	251.0
27.5°	238.0	238.0	238.0	239.4	240.9	240.9	240.9	240.9	240.9	242.3	243.8
30°	229.3	229.3	229.3	230.8	230.8	232.2	232.2	232.2	232.2	233.7	235.1
32.5°	220.7	220.7	220.7	222.1	222.1	222.1	223.6	223.6	223.6	225.0	226.4
35°	210.6	212.0	212.0	212.0	213.5	213.5	213.5	213.5	214.9	216.3	217.8
37.5°	201.9	201.9	201.9	201.9	203.4	203.4	203.4	204.8	204.8	206.3	207.7
40°	191.8	191.8	191.8	193.3	193.3	193.3	194.7	194.7	196.2	197.6	197.6
42.5°	181.7	181.7	181.7	183.2	183.2	183.2	184.6	186.1	186.1	187.5	187.5
45°	173.1	171.6	173.1	173.1	173.1	173.1	174.5	174.5	176.0	177.4	177.4
47.5°	163.0	161.5	163.0	163.0	163.0	163.0	164.4	164.4	165.9	165.9	167.3
50°	152.9	151.4	152.9	152.9	152.9	152.9	154.3	154.3	155.8	155.8	157.2
52.5°	142.8	142.8	142.8	142.8	142.8	142.8	142.8	144.2	145.7	145.7	147.1
55°	131.3	131.3	132.7	132.7	132.7	132.7	132.7	134.1	134.1	135.6	135.6
57.5°	121.2	121.2	121.2	122.6	122.6	122.6	122.6	124.0	124.0	125.5	125.5
60°	111.1	111.1	111.1	111.1	112.5	112.5	112.5	112.5	113.9	115.4	115.4
62.5°	101.0	101.0	101.0	101.0	102.4	102.4	101.0	102.4	102.4	103.8	103.8
65°	90.9	90.9	90.9	90.9	90.9	90.9	90.9	92.3	92.3	93.8	93.8
67.5°	80.8	79.3	80.8	80.8	80.8	80.8	80.8	82.2	82.2	82.2	83.7
70°	70.7	69.2	69.2	69.2	70.7	70.7	70.7	72.1	70.7	72.1	72.1
72.5°	59.1	59.1	59.1	59.1	59.1	60.6	60.6	60.6	60.6	62.0	62.0
75°	49.0	49.0	49.0	49.0	49.0	49.0	50.5	50.5	50.5	51.9	51.9
77.5°	38.9	38.9	38.9	38.9	38.9	38.9	40.4	40.4	40.4	40.4	41.8
80°	28.8	28.8	28.8	28.8	28.8	28.8	30.3	30.3	30.3	30.3	31.7
82.5°	18.8	18.8	18.8	20.2	18.8	20.2	20.2	20.2	20.2	20.2	21.6
85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	11.5	11.5	13.0
87.5°	2.9	1.4	1.4	2.9	1.4	2.9	2.9	2.9	2.9	2.9	2.9
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°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.2	7.2
97.5°	8.7	8.7	8.7	8.7	8.7	10.1	10.1	10.1	10.1	11.5	13.0
100°	13.0	13.0	13.0	13.0	14.4	14.4	14.4	15.9	15.9	18.8	20.2
102.5°	18.8	18.8	18.8	18.8	20.2	20.2	21.6	23.1	24.5	28.8	36.1
105°	26.0	26.0	26.0	27.4	28.8	28.8	30.3	33.2	38.9	47.6	63.5
107.5°	36.1	36.1	37.5	38.9	41.8	43.3	46.2	56.3	69.2	92.3	138.5
110°	54.8	54.8	57.7	62.0	70.7	76.4	86.5	113.9	154.3	213.5	276.9



TEST NUMBER: P303187

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	103.8	105.3	116.8	125.5	154.3	176.0	206.3	266.8	328.8	382.2	419.7
115°	253.8	258.2	287.0	302.9	367.8	380.8	413.9	471.6	499.0	506.3	501.9
117.5°	510.6	512.0	532.2	545.2	569.7	578.4	581.3	591.3	585.6	574.0	558.2
120°	663.5	660.6	663.5	659.1	660.6	657.7	653.4	644.7	630.3	614.4	594.2
122.5°	721.2	719.7	716.8	708.2	703.8	698.1	690.9	680.8	666.3	646.2	626.0
125°	752.9	751.4	748.6	739.9	732.7	726.9	721.2	709.6	692.3	675.0	653.4
127.5°	776.0	774.5	770.2	764.4	755.8	750.0	744.2	732.7	715.4	698.1	679.3
130°	794.7	793.3	788.9	784.6	776.0	771.6	765.9	754.3	737.0	719.7	701.0
132.5°	812.0	810.6	807.7	803.4	794.7	788.9	784.6	774.5	755.8	738.5	724.0
135°	826.4	823.6	823.6	817.8	809.1	804.8	800.5	790.4	773.1	757.2	742.8
137.5°	838.0	836.5	833.7	829.3	822.1	817.8	813.5	803.4	788.9	773.1	760.1
140°	848.1	846.6	845.2	840.9	833.7	829.3	826.4	814.9	801.9	788.9	777.4
142.5°	856.7	855.3	852.4	849.5	842.3	839.4	836.5	826.4	812.0	801.9	791.8
145°	862.5	862.5	859.6	856.7	851.0	848.1	845.2	833.7	822.1	813.5	804.8
147.5°	868.3	868.3	863.9	862.5	858.2	855.3	852.4	840.9	829.3	822.1	813.5
150°	871.2	871.2	868.3	865.4	861.1	859.6	856.7	846.6	836.5	830.8	820.7
152.5°	874.0	874.0	871.2	868.3	863.9	862.5	858.2	851.0	840.9	835.1	826.4
155°	874.0	875.5	871.2	868.3	865.4	863.9	859.6	851.0	843.8	839.4	829.3
157.5°	872.6	872.6	871.2	868.3	863.9	862.5	858.2	849.5	843.8	842.3	830.8
160°	869.7	869.7	868.3	863.9	862.5	859.6	855.3	849.5	845.2	842.3	833.7
162.5°	865.4	863.9	862.5	859.6	858.2	856.7	853.8	846.6	842.3	840.9	832.2
165°	858.2	856.7	855.3	853.8	852.4	851.0	848.1	840.9	839.4	838.0	829.3
167.5°	851.0	848.1	846.6	843.8	843.8	840.9	839.4	835.1	833.7	833.7	827.9
170°	839.4	838.0	836.5	835.1	835.1	833.7	832.2	826.4	826.4	827.9	822.1
172.5°	830.8	827.9	827.9	826.4	826.4	825.0	823.6	819.2	819.2	820.7	817.8
175°	817.8	816.3	814.9	813.5	813.5	813.5	812.0	809.1	810.6	812.0	809.1
177.5°	801.9	797.6	799.0	799.0	801.9	800.5	800.5	797.6	799.0	801.9	800.5
180°	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6



TEST NUMBER: P303187

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9
2.5°	288.5	288.5	287.0	288.5	288.5	288.5	289.9	289.9	291.3	291.3	291.3
5°	288.5	287.0	287.0	287.0	288.5	288.5	288.5	289.9	289.9	289.9	289.9
7.5°	285.6	285.6	285.6	285.6	285.6	287.0	287.0	287.0	288.5	288.5	287.0
10°	284.1	282.7	282.7	282.7	284.1	284.1	284.1	285.6	285.6	285.6	284.1
12.5°	279.8	279.8	278.4	279.8	279.8	279.8	279.8	281.3	281.3	281.3	281.3
15°	275.5	275.5	274.0	275.5	275.5	275.5	275.5	276.9	278.4	276.9	276.9
17.5°	269.7	269.7	269.7	269.7	269.7	271.2	271.2	272.6	272.6	272.6	271.2
20°	263.9	263.9	263.9	263.9	263.9	263.9	265.4	265.4	266.8	266.8	265.4
22.5°	256.7	256.7	256.7	256.7	258.2	258.2	258.2	259.6	259.6	259.6	258.2
25°	251.0	249.5	249.5	249.5	251.0	251.0	251.0	252.4	252.4	252.4	252.4
27.5°	242.3	242.3	240.9	242.3	242.3	243.8	243.8	245.2	245.2	245.2	243.8
30°	235.1	233.7	233.7	233.7	235.1	235.1	236.5	236.5	238.0	236.5	236.5
32.5°	226.4	226.4	225.0	226.4	226.4	226.4	227.9	227.9	229.3	229.3	227.9
35°	217.8	216.3	216.3	217.8	217.8	217.8	219.2	219.2	220.7	219.2	219.2
37.5°	209.1	207.7	207.7	207.7	207.7	209.1	210.6	210.6	210.6	210.6	210.6
40°	199.0	199.0	199.0	199.0	199.0	199.0	200.5	200.5	201.9	200.5	200.5
42.5°	190.4	188.9	188.9	188.9	188.9	190.4	190.4	191.8	191.8	191.8	190.4
45°	180.3	180.3	180.3	178.8	178.8	180.3	181.7	181.7	181.7	181.7	180.3
47.5°	170.2	168.8	170.2	170.2	168.8	170.2	171.6	171.6	171.6	171.6	170.2
50°	158.7	158.7	158.7	160.1	158.7	160.1	161.5	161.5	161.5	160.1	160.1
52.5°	147.1	148.6	150.0	150.0	148.6	150.0	150.0	150.0	150.0	150.0	150.0
55°	137.0	138.5	138.5	138.5	138.5	139.9	139.9	139.9	139.9	139.9	139.9
57.5°	126.9	126.9	128.4	128.4	128.4	128.4	128.4	129.8	128.4	128.4	128.4
60°	115.4	116.8	118.3	118.3	118.3	118.3	118.3	119.7	118.3	118.3	118.3
62.5°	105.3	105.3	106.7	108.2	106.7	108.2	108.2	108.2	108.2	108.2	108.2
65°	95.2	95.2	96.6	96.6	96.6	96.6	96.6	98.1	96.6	98.1	98.1
67.5°	83.7	85.1	85.1	86.5	86.5	86.5	86.5	88.0	88.0	86.5	86.5
70°	73.6	73.6	75.0	75.0	76.4	76.4	76.4	76.4	76.4	76.4	76.4
72.5°	62.0	63.5	63.5	64.9	64.9	64.9	64.9	66.3	66.3	66.3	66.3
75°	51.9	53.4	53.4	54.8	53.4	54.8	54.8	54.8	56.3	54.8	56.3
77.5°	41.8	43.3	43.3	43.3	44.7	44.7	44.7	44.7	44.7	44.7	44.7
80°	31.7	33.2	33.2	33.2	34.6	34.6	34.6	34.6	34.6	34.6	34.6
82.5°	21.6	23.1	23.1	23.1	23.1	24.5	24.5	24.5	24.5	24.5	24.5
85°	13.0	13.0	13.0	14.4	14.4	14.4	14.4	15.9	15.9	15.9	15.9
87.5°	4.3	4.3	4.3	5.8	5.8	5.8	5.8	5.8	5.8	7.2	7.2
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°	4.3	4.3	4.3	4.3	5.8	5.8	8.7	8.7	7.2	7.2	7.2
95°	8.7	8.7	11.5	14.4	17.3	20.2	23.1	23.1	20.2	17.3	15.9
97.5°	14.4	18.8	24.5	33.2	37.5	43.3	47.6	43.3	37.5	31.7	28.8
100°	26.0	34.6	49.0	66.3	73.6	79.3	80.8	72.1	60.6	49.0	44.7
102.5°	49.0	66.3	96.6	119.7	125.5	129.8	122.6	106.7	90.9	73.6	64.9
105°	93.8	132.7	174.5	186.1	188.9	186.1	170.2	147.1	125.5	103.8	90.9
107.5°	191.8	236.5	262.5	256.7	249.5	240.9	217.8	190.4	164.4	137.0	121.2
110°	318.8	337.5	336.1	315.9	301.4	288.5	263.9	233.7	203.4	174.5	154.3



TEST NUMBER: P303187

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	424.0	413.9	393.8	364.9	349.0	333.2	307.2	276.9	243.8	213.5	191.8
115°	487.5	465.9	438.5	412.5	396.6	379.3	349.0	317.3	284.1	252.4	229.3
117.5°	532.2	507.7	481.7	452.9	437.0	421.2	392.3	356.3	323.1	291.3	266.8
120°	568.3	542.3	514.9	488.9	474.5	460.1	429.8	396.6	360.6	330.3	302.9
122.5°	601.4	575.5	551.0	523.6	507.7	494.7	463.0	431.3	399.5	367.8	338.9
125°	631.7	608.7	579.8	553.8	540.9	526.4	496.2	464.4	435.6	405.3	377.9
127.5°	659.1	636.1	610.1	581.3	568.3	555.3	523.6	494.7	468.8	438.5	412.5
130°	683.7	660.6	636.1	608.7	597.1	582.7	553.8	525.0	500.5	473.1	445.7
132.5°	706.7	683.7	659.1	633.2	620.2	607.2	582.7	553.8	530.8	506.3	478.8
135°	726.9	703.8	679.3	653.4	641.8	630.3	605.8	581.3	556.7	535.1	509.1
137.5°	744.2	722.6	698.1	673.6	663.5	651.9	628.8	605.8	584.1	562.5	538.0
140°	760.1	738.5	713.9	690.9	680.8	672.1	649.0	628.8	610.1	588.5	565.4
142.5°	774.5	751.4	728.4	706.7	698.1	689.4	669.2	650.5	633.2	611.5	591.3
145°	786.1	763.0	741.3	721.2	715.4	705.3	686.5	670.7	653.4	634.6	615.9
147.5°	797.6	776.0	754.3	735.6	729.8	721.2	705.3	689.4	673.6	656.3	638.9
150°	804.8	784.6	765.9	750.0	744.2	735.6	719.7	706.7	693.8	676.4	659.1
152.5°	810.6	791.8	774.5	761.5	757.2	750.0	735.6	725.5	711.1	696.6	680.8
155°	814.9	797.6	783.2	771.6	767.3	763.0	748.6	739.9	726.9	713.9	699.5
157.5°	817.8	801.9	788.9	780.3	776.0	771.6	758.7	751.4	741.3	729.8	715.4
160°	819.2	804.8	794.7	787.5	783.2	778.8	770.2	761.5	751.4	742.8	731.3
162.5°	819.2	807.7	797.6	791.8	788.9	786.1	777.4	770.2	763.0	754.3	744.2
165°	819.2	809.1	800.5	796.2	793.3	791.8	783.2	778.8	771.6	764.4	755.8
167.5°	816.3	807.7	801.9	799.0	796.2	794.7	788.9	783.2	778.8	774.5	765.9
170°	813.5	806.3	800.5	799.0	797.6	796.2	791.8	788.9	786.1	781.7	774.5
172.5°	809.1	803.4	799.0	797.6	797.6	796.2	793.3	791.8	790.4	787.5	781.7
175°	801.9	797.6	793.3	794.7	794.7	794.7	791.8	793.3	791.8	790.4	786.1
177.5°	793.3	790.4	788.9	790.4	790.4	790.4	790.4	791.8	793.3	793.3	788.9
180°	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6



TEST NUMBER: P303187

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9
2.5°	288.5	287.0	287.0	287.0	288.5	288.5	288.5	288.5	289.9	289.9	289.9
5°	287.0	285.6	285.6	285.6	287.0	287.0	287.0	287.0	288.5	288.5	288.5
7.5°	285.6	284.1	284.1	284.1	284.1	285.6	285.6	284.1	285.6	287.0	285.6
10°	282.7	281.3	281.3	281.3	281.3	282.7	282.7	281.3	282.7	282.7	282.7
12.5°	278.4	276.9	276.9	276.9	278.4	278.4	278.4	276.9	278.4	279.8	278.4
15°	274.0	272.6	272.6	272.6	272.6	274.0	274.0	272.6	274.0	274.0	272.6
17.5°	269.7	268.3	266.8	266.8	268.3	268.3	268.3	266.8	268.3	268.3	266.8
20°	262.5	261.1	261.1	261.1	262.5	262.5	261.1	261.1	262.5	261.1	261.1
22.5°	256.7	255.3	255.3	255.3	255.3	255.3	255.3	253.8	255.3	253.8	253.8
25°	249.5	248.1	248.1	248.1	248.1	248.1	246.6	246.6	248.1	246.6	245.2
27.5°	242.3	240.9	240.9	240.9	240.9	240.9	239.4	239.4	239.4	238.0	238.0
30°	233.7	233.7	232.2	232.2	232.2	232.2	230.8	230.8	232.2	230.8	229.3
32.5°	226.4	225.0	225.0	225.0	225.0	223.6	222.1	222.1	222.1	222.1	220.7
35°	216.3	216.3	216.3	216.3	214.9	214.9	213.5	214.9	213.5	212.0	212.0
37.5°	207.7	207.7	206.3	206.3	206.3	206.3	204.8	206.3	204.8	203.4	201.9
40°	199.0	197.6	197.6	197.6	197.6	196.2	196.2	196.2	194.7	193.3	193.3
42.5°	188.9	188.9	187.5	188.9	187.5	187.5	186.1	187.5	186.1	184.6	183.2
45°	178.8	178.8	178.8	178.8	178.8	177.4	177.4	177.4	176.0	174.5	173.1
47.5°	168.8	168.8	168.8	170.2	168.8	167.3	167.3	167.3	165.9	164.4	163.0
50°	158.7	158.7	158.7	158.7	158.7	157.2	157.2	155.8	155.8	154.3	152.9
52.5°	148.6	148.6	148.6	150.0	148.6	147.1	147.1	147.1	145.7	144.2	142.8
55°	138.5	138.5	139.9	138.5	138.5	138.5	137.0	137.0	135.6	134.1	132.7
57.5°	128.4	128.4	128.4	128.4	128.4	126.9	126.9	126.9	125.5	124.0	122.6
60°	118.3	118.3	118.3	118.3	116.8	116.8	116.8	115.4	113.9	112.5	112.5
62.5°	106.7	108.2	108.2	106.7	106.7	106.7	105.3	105.3	103.8	103.8	102.4
65°	96.6	98.1	96.6	96.6	96.6	96.6	95.2	95.2	93.8	92.3	92.3
67.5°	86.5	86.5	86.5	86.5	86.5	85.1	85.1	83.7	83.7	82.2	82.2
70°	76.4	76.4	75.0	75.0	76.4	75.0	73.6	73.6	73.6	72.1	72.1
72.5°	66.3	66.3	64.9	64.9	64.9	64.9	63.5	63.5	62.0	62.0	60.6
75°	54.8	54.8	54.8	54.8	54.8	53.4	53.4	53.4	51.9	51.9	50.5
77.5°	44.7	44.7	44.7	44.7	44.7	43.3	43.3	43.3	43.3	41.8	41.8
80°	34.6	34.6	34.6	34.6	34.6	33.2	33.2	33.2	31.7	31.7	30.3
82.5°	24.5	24.5	24.5	24.5	24.5	23.1	23.1	23.1	21.6	21.6	21.6
85°	15.9	14.4	14.4	14.4	14.4	14.4	13.0	13.0	13.0	13.0	11.5
87.5°	7.2	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.3	5.8
90°	1.4	2.9	2.9	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.8
92.5°	11.5	14.4	14.4	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
95°	18.8	21.6	27.4	28.8	30.3	33.2	33.2	33.2	31.7	31.7	31.7
97.5°	27.4	31.7	31.7	34.6	36.1	41.8	46.2	47.6	50.5	50.5	50.5
100°	41.8	40.4	44.7	47.6	47.6	47.6	50.5	56.3	59.1	62.0	63.5
102.5°	60.6	54.8	54.8	56.3	59.1	64.9	60.6	62.0	64.9	67.8	72.1
105°	80.8	75.0	70.7	69.2	70.7	75.0	79.3	77.9	75.0	76.4	79.3
107.5°	106.7	96.6	88.0	86.5	86.5	86.5	90.9	95.2	98.1	95.2	92.3
110°	137.0	121.2	112.5	105.3	103.8	102.4	102.4	105.3	111.1	115.4	116.8



TEST NUMBER: P303187

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	170.2	151.4	137.0	129.8	125.5	119.7	118.3	118.3	121.2	126.9	131.3
115°	204.8	184.6	165.9	158.7	151.4	141.3	137.0	134.1	134.1	137.0	141.3
117.5°	240.9	219.2	199.0	187.5	181.7	167.3	157.2	151.4	150.0	150.0	152.9
120°	276.9	256.7	233.7	220.7	213.5	197.6	183.2	171.6	167.3	165.9	164.4
122.5°	313.0	291.3	269.7	256.7	248.1	229.3	214.9	197.6	190.4	183.2	181.7
125°	349.0	327.4	304.3	294.2	282.7	262.5	246.6	229.3	216.3	206.3	199.0
127.5°	386.5	362.0	338.9	331.7	318.8	298.6	281.3	263.9	249.5	235.1	225.0
130°	419.7	399.5	377.9	366.3	354.8	334.6	314.4	297.1	284.1	269.7	256.7
132.5°	452.9	432.7	412.5	405.3	393.8	370.7	351.9	331.7	317.3	302.9	291.3
135°	483.2	463.0	444.2	437.0	426.9	406.7	389.4	369.2	350.5	337.5	326.0
137.5°	512.0	493.3	474.5	467.3	458.7	439.9	424.0	406.7	389.4	376.4	359.1
140°	540.9	522.1	504.8	497.6	488.9	471.6	454.3	441.3	424.0	411.1	398.1
142.5°	568.3	549.5	532.2	525.0	519.2	501.9	486.1	474.5	460.1	445.7	434.1
145°	594.2	574.0	559.6	552.4	546.6	530.8	516.3	506.3	494.7	480.3	468.8
147.5°	617.3	598.6	584.1	579.8	574.0	561.1	546.6	535.1	526.4	513.5	501.9
150°	638.9	621.6	608.7	604.3	600.0	585.6	572.6	562.5	555.3	543.8	532.2
152.5°	662.0	644.7	633.2	628.8	623.1	611.5	600.0	588.5	582.7	574.0	562.5
155°	680.8	666.3	654.8	650.5	644.7	636.1	623.1	614.4	610.1	600.0	589.9
157.5°	699.5	685.1	675.0	670.7	666.3	657.7	646.2	637.5	634.6	626.0	617.3
160°	715.4	702.4	692.3	688.0	685.1	677.9	667.8	659.1	657.7	651.9	643.3
162.5°	729.8	716.8	709.6	705.3	702.4	698.1	688.0	679.3	677.9	673.6	666.3
165°	741.3	729.8	724.0	721.2	719.7	715.4	706.7	698.1	698.1	695.2	686.5
167.5°	754.3	742.8	737.0	735.6	734.1	729.8	724.0	716.8	716.8	713.9	706.7
170°	764.4	754.3	750.0	748.6	747.1	744.2	739.9	732.7	734.1	731.3	725.5
172.5°	771.6	764.4	761.5	758.7	758.7	757.2	754.3	748.6	750.0	748.6	742.8
175°	777.4	770.2	770.2	767.3	768.8	768.8	764.4	760.1	763.0	764.4	758.7
177.5°	781.7	776.0	776.0	776.0	777.4	777.4	776.0	771.6	774.5	777.4	771.6
180°	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6



TEST NUMBER: P303187

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9
2.5°	289.9	289.9	289.9	288.5	289.9	287.0	285.6	285.6
5°	287.0	287.0	287.0	287.0	287.0	287.0	285.6	285.6
7.5°	285.6	285.6	284.1	284.1	285.6	285.6	284.1	284.1
10°	281.3	281.3	281.3	281.3	282.7	281.3	281.3	281.3
12.5°	278.4	276.9	276.9	276.9	278.4	276.9	276.9	276.9
15°	272.6	272.6	272.6	272.6	274.0	272.6	272.6	272.6
17.5°	266.8	266.8	266.8	266.8	268.3	266.8	265.4	265.4
20°	261.1	259.6	259.6	259.6	259.6	259.6	258.2	258.2
22.5°	252.4	252.4	252.4	252.4	252.4	251.0	251.0	251.0
25°	245.2	243.8	243.8	245.2	243.8	243.8	242.3	242.3
27.5°	236.5	236.5	236.5	236.5	236.5	235.1	233.7	233.7
30°	229.3	227.9	227.9	227.9	227.9	226.4	225.0	225.0
32.5°	220.7	219.2	219.2	219.2	219.2	216.3	216.3	216.3
35°	210.6	210.6	210.6	210.6	209.1	207.7	207.7	206.3
37.5°	201.9	200.5	200.5	200.5	199.0	199.0	197.6	197.6
40°	191.8	191.8	191.8	191.8	190.4	188.9	187.5	187.5
42.5°	181.7	181.7	181.7	181.7	180.3	178.8	178.8	178.8
45°	173.1	171.6	171.6	171.6	170.2	170.2	168.8	168.8
47.5°	163.0	163.0	161.5	161.5	161.5	160.1	158.7	158.7
50°	152.9	152.9	152.9	151.4	150.0	150.0	150.0	148.6
52.5°	142.8	142.8	142.8	141.3	141.3	139.9	139.9	139.9
55°	132.7	132.7	132.7	131.3	131.3	129.8	129.8	129.8
57.5°	122.6	122.6	122.6	121.2	121.2	119.7	119.7	119.7
60°	112.5	112.5	111.1	111.1	111.1	109.6	109.6	109.6
62.5°	102.4	101.0	101.0	101.0	101.0	99.5	99.5	99.5
65°	92.3	90.9	90.9	90.9	90.9	89.4	89.4	89.4
67.5°	82.2	80.8	80.8	80.8	80.8	79.3	79.3	79.3
70°	70.7	70.7	70.7	70.7	70.7	69.2	69.2	69.2
72.5°	60.6	60.6	60.6	60.6	59.1	59.1	59.1	59.1
75°	50.5	50.5	50.5	50.5	49.0	49.0	49.0	49.0
77.5°	40.4	40.4	40.4	40.4	40.4	38.9	38.9	40.4
80°	30.3	30.3	30.3	30.3	30.3	28.8	28.8	28.8
82.5°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	18.8
85°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
87.5°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8
90°	5.8	7.2	7.2	7.2	7.2	8.7	8.7	8.7
92.5°	15.9	17.3	17.3	15.9	17.3	17.3	17.3	17.3
95°	30.3	31.7	31.7	30.3	31.7	31.7	31.7	31.7
97.5°	50.5	50.5	50.5	49.0	50.5	49.0	49.0	49.0
100°	64.9	64.9	66.3	66.3	67.8	67.8	66.3	67.8
102.5°	73.6	75.0	76.4	76.4	77.9	77.9	79.3	79.3
105°	80.8	82.2	83.7	83.7	86.5	88.0	89.4	89.4
107.5°	92.3	92.3	93.8	93.8	95.2	95.2	95.2	96.6
110°	115.4	111.1	109.6	109.6	108.2	108.2	108.2	108.2



TEST NUMBER: P303187

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	134.1	134.1	135.6	135.6	135.6	134.1	131.3	132.7
115°	145.7	148.6	148.6	150.0	150.0	151.4	151.4	152.9
117.5°	154.3	157.2	158.7	160.1	163.0	164.4	164.4	164.4
120°	165.9	167.3	168.8	168.8	170.2	171.6	173.1	173.1
122.5°	180.3	178.8	180.3	180.3	180.3	181.7	181.7	181.7
125°	196.2	194.7	193.3	193.3	191.8	191.8	191.8	191.8
127.5°	217.8	213.5	212.0	210.6	207.7	207.7	206.3	207.7
130°	246.6	239.4	236.5	233.7	227.9	227.9	225.0	225.0
132.5°	279.8	271.2	266.8	263.9	256.7	253.8	251.0	251.0
135°	315.9	307.2	301.4	298.6	289.9	287.0	284.1	281.3
137.5°	350.5	341.8	337.5	336.1	327.4	324.5	318.8	317.3
140°	388.0	379.3	375.0	372.1	362.0	357.7	354.8	353.4
142.5°	424.0	413.9	409.6	408.2	401.0	396.6	392.3	390.9
145°	458.7	448.6	444.2	444.2	435.6	432.7	428.4	425.5
147.5°	493.3	483.2	478.8	478.8	471.6	465.9	463.0	460.1
150°	525.0	516.3	512.0	512.0	504.8	499.0	494.7	493.3
152.5°	553.8	546.6	543.8	543.8	538.0	532.2	529.3	527.9
155°	582.7	576.9	572.6	572.6	568.3	562.5	561.1	559.6
157.5°	611.5	605.8	601.4	602.9	597.1	592.8	589.9	589.9
160°	637.5	633.2	628.8	628.8	626.0	621.6	615.9	617.3
162.5°	663.5	657.7	654.8	654.8	653.4	647.6	641.8	643.3
165°	682.2	679.3	677.9	677.9	676.4	672.1	667.8	667.8
167.5°	702.4	699.5	698.1	698.1	696.6	693.8	689.4	690.9
170°	722.6	719.7	718.3	716.8	716.8	713.9	711.1	711.1
172.5°	741.3	738.5	737.0	737.0	738.5	735.6	731.3	731.3
175°	757.2	755.8	752.9	752.9	752.9	750.0	747.1	747.1
177.5°	771.6	770.2	770.2	768.8	770.2	765.9	761.5	761.5
180°	784.6	784.6	784.6	784.6	784.6	784.6	784.6	784.6

(END OF REPORT)