

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: P303189

Luminaire Tested: **CTW-F-7525-20L840-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303189
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-6
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: 3173.4 lumens
Efficiency: N/A
Efficacy: 136.8 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

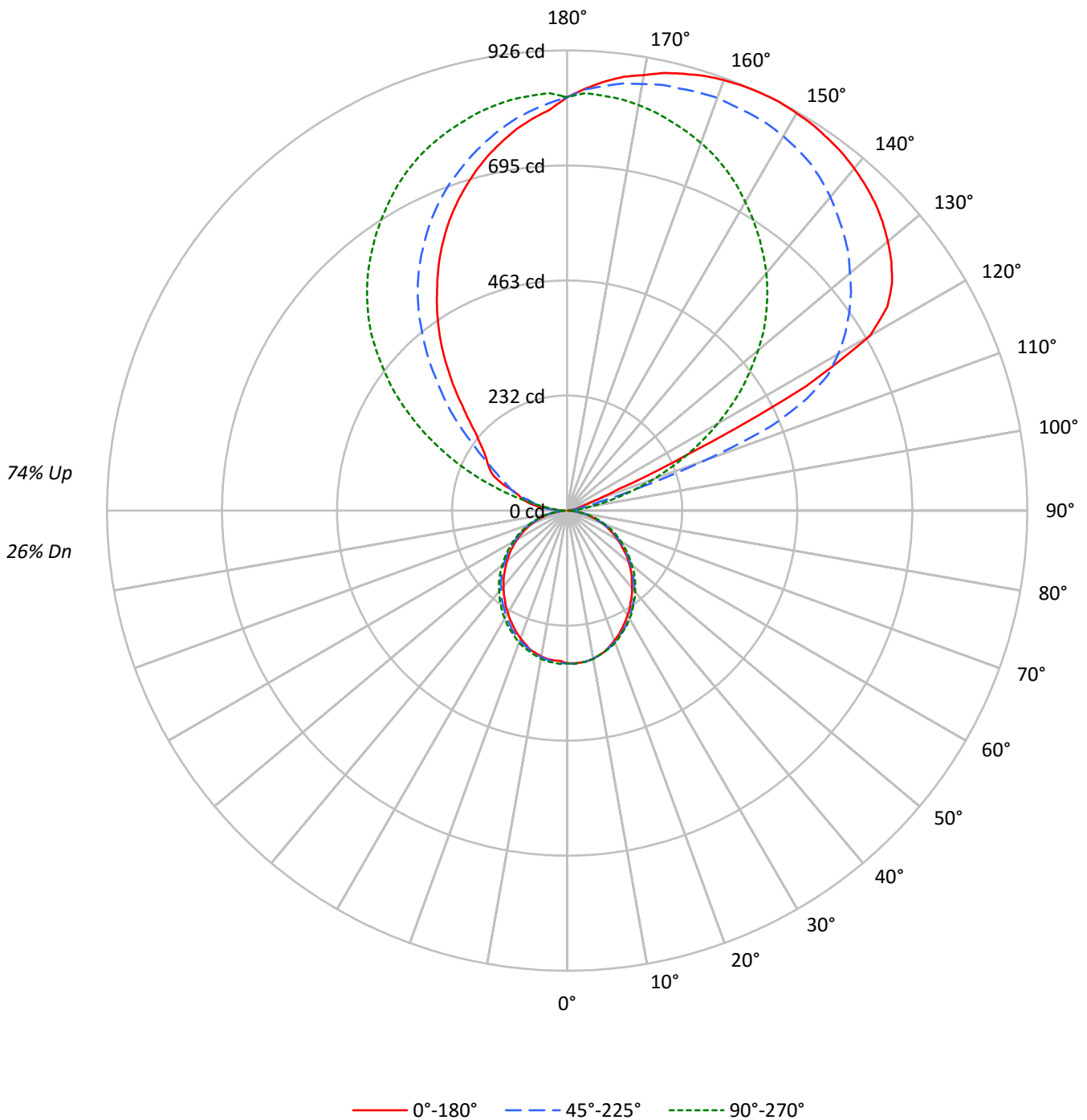
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P303189

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-6

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°	4410	4410	4410
5°	4427	4427	4361
10°	4411	4411	4344
15°	4361	4361	4294
20°	4250	4319	4180
25°	4139	4236	4067
30°	4029	4155	3952
35°	3911	4072	3830
40°	3809	3981	3725
45°	3724	3909	3631
50°	3619	3789	3517
55°	3481	3711	3443
60°	3378	3599	3335
65°	3270	3532	3219
70°	3143	3399	3080
75°	2883	3222	2883
80°	2529	3033	2529
85°	1762	2766	2009



TEST NUMBER: P303189

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.9
10°-20°	82.1	2.6
20°-30°	121.2	3.8
30°-40°	142.2	4.5
40°-50°	144.1	4.5
50°-60°	128.5	4.0
60°-70°	98.5	3.1
70°-80°	58.4	1.8
80°-90°	16.5	0.5
90°-100°	24.9	0.8
100°-110°	101.4	3.2
110°-120°	284.2	9.0
120°-130°	414.5	13.1
130°-140°	446.5	14.1
140°-150°	425.3	13.4
150°-160°	349.1	11.0
160°-170°	228.0	7.2
170°-180°	79.0	2.5
0°-30°	232.2	7.3
0°-40°	374.4	11.8
0°-60°	646.9	20.4
0°-90°	820.4	25.9
90°-120°	410.6	12.9
90°-150°	1697.0	53.5
90°-180°	2353.0	74.1
0°-180°	3173.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	307	307	307	307	307	
5°	307	307	307	306	303	29
15°	294	294	294	290	289	82
25°	261	266	268	263	257	120
35°	223	231	232	226	219	140
45°	184	188	193	186	179	141
55°	139	144	148	144	138	125
65°	96	99	104	99	95	95
75°	52	55	58	55	52	55
85°	11	14	17	14	12	13
90°	2	2	2	6	9	1
95°	6	8	18	34	34	6
105°	28	67	110	80	95	32
115°	269	532	268	142	162	318
125°	798	693	430	229	203	707
135°	876	787	567	372	298	676
145°	914	853	673	524	451	574
155°	926	879	757	647	593	428
165°	910	879	810	740	708	258
175°	867	858	838	809	792	83
180°	832	832	832	832	832	



TEST NUMBER: P303189

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-6

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3
2.5°	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	308.8	308.8
5°	307.3	307.3	307.3	307.3	307.3	307.3	307.3	305.8	307.3	307.3	307.3
7.5°	305.8	305.8	305.8	305.8	305.8	305.8	304.2	304.2	304.2	305.8	305.8
10°	302.7	302.7	302.7	301.2	301.2	302.7	301.2	301.2	302.7	302.7	302.7
12.5°	298.1	298.1	298.1	298.1	298.1	298.1	298.1	296.6	298.1	299.7	298.1
15°	293.5	293.5	293.5	293.5	293.5	293.5	293.5	292.0	293.5	295.1	293.5
17.5°	285.9	285.9	285.9	285.9	287.4	287.4	287.4	285.9	287.4	289.0	287.4
20°	278.3	278.3	278.3	279.8	279.8	279.8	279.8	279.8	279.8	281.3	281.3
22.5°	270.6	270.6	270.6	270.6	272.1	272.1	272.1	270.6	272.1	273.7	273.7
25°	261.4	261.4	261.4	261.4	263.0	263.0	263.0	263.0	264.5	266.0	266.0
27.5°	252.3	252.3	252.3	253.8	255.3	255.3	255.3	255.3	255.3	256.8	258.4
30°	243.1	243.1	243.1	244.6	244.6	246.1	246.1	246.1	246.1	247.7	249.2
32.5°	233.9	233.9	233.9	235.4	235.4	235.4	237.0	237.0	237.0	238.5	240.0
35°	223.2	224.7	224.7	224.7	226.3	226.3	226.3	226.3	227.8	229.3	230.9
37.5°	214.0	214.0	214.0	214.0	215.6	215.6	215.6	217.1	217.1	218.6	220.2
40°	203.3	203.3	203.3	204.9	204.9	204.9	206.4	206.4	207.9	209.5	209.5
42.5°	192.6	192.6	192.6	194.2	194.2	194.2	195.7	197.2	197.2	198.8	198.8
45°	183.5	181.9	183.5	183.5	183.5	183.5	185.0	185.0	186.5	188.0	188.0
47.5°	172.8	171.2	172.8	172.8	172.8	172.8	174.3	174.3	175.8	175.8	177.3
50°	162.1	160.5	162.1	162.1	162.1	162.1	163.6	163.6	165.1	165.1	166.6
52.5°	151.4	151.4	151.4	151.4	151.4	151.4	151.4	152.9	154.4	154.4	155.9
55°	139.1	139.1	140.7	140.7	140.7	140.7	140.7	142.2	142.2	143.7	143.7
57.5°	128.4	128.4	128.4	130.0	130.0	130.0	130.0	131.5	131.5	133.0	133.0
60°	117.7	117.7	117.7	117.7	119.3	119.3	119.3	119.3	120.8	122.3	122.3
62.5°	107.0	107.0	107.0	107.0	108.5	108.5	107.0	108.5	108.5	110.1	110.1
65°	96.3	96.3	96.3	96.3	96.3	96.3	96.3	97.8	97.8	99.4	99.4
67.5°	85.6	84.1	85.6	85.6	85.6	85.6	85.6	87.1	87.1	87.1	88.7
70°	74.9	73.4	73.4	73.4	74.9	74.9	74.9	76.4	74.9	76.4	76.4
72.5°	62.7	62.7	62.7	62.7	62.7	64.2	64.2	64.2	64.2	65.7	65.7
75°	52.0	52.0	52.0	52.0	52.0	52.0	53.5	53.5	53.5	55.0	55.0
77.5°	41.3	41.3	41.3	41.3	41.3	41.3	42.8	42.8	42.8	42.8	44.3
80°	30.6	30.6	30.6	30.6	30.6	30.6	32.1	32.1	32.1	32.1	33.6
82.5°	19.9	19.9	19.9	21.4	19.9	21.4	21.4	21.4	21.4	21.4	22.9
85°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	12.2	12.2	13.8
87.5°	3.1	1.5	1.5	3.1	1.5	3.1	3.1	3.1	3.1	3.1	3.1
90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
92.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
95°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6	7.6
97.5°	9.2	9.2	9.2	9.2	9.2	10.7	10.7	10.7	10.7	12.2	13.8
100°	13.8	13.8	13.8	13.8	15.3	15.3	15.3	16.8	16.8	19.9	21.4
102.5°	19.9	19.9	19.9	19.9	21.4	21.4	22.9	24.5	26.0	30.6	38.2
105°	27.5	27.5	27.5	29.0	30.6	30.6	32.1	35.2	41.3	50.5	67.3
107.5°	38.2	38.2	39.8	41.3	44.3	45.9	48.9	59.6	73.4	97.8	146.8
110°	58.1	58.1	61.2	65.7	74.9	81.0	91.7	120.8	163.6	226.3	293.5



TEST NUMBER: P303189

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	110.1	111.6	123.8	133.0	163.6	186.5	218.6	282.8	348.6	405.1	444.9
115°	269.1	273.7	304.2	321.1	389.9	403.6	438.8	499.9	529.0	536.6	532.0
117.5°	541.2	542.7	564.1	577.9	603.9	613.1	616.1	626.8	620.7	608.5	591.7
120°	703.3	700.2	703.3	698.7	700.2	697.2	692.6	683.4	668.1	651.3	629.9
122.5°	764.4	762.9	759.8	750.7	746.1	740.0	732.3	721.6	706.3	684.9	663.5
125°	798.1	796.5	793.5	784.3	776.7	770.5	764.4	752.2	733.8	715.5	692.6
127.5°	822.5	821.0	816.4	810.3	801.1	795.0	788.9	776.7	758.3	740.0	720.1
130°	842.4	840.9	836.3	831.7	822.5	817.9	811.8	799.6	781.2	762.9	743.0
132.5°	860.7	859.2	856.2	851.6	842.4	836.3	831.7	821.0	801.1	782.8	767.5
135°	876.0	873.0	873.0	866.9	857.7	853.1	848.5	837.8	819.5	802.6	787.4
137.5°	888.3	886.7	883.7	879.1	871.4	866.9	862.3	851.6	836.3	819.5	805.7
140°	899.0	897.4	895.9	891.3	883.7	879.1	876.0	863.8	850.0	836.3	824.0
142.5°	908.1	906.6	903.5	900.5	892.8	889.8	886.7	876.0	860.7	850.0	839.3
145°	914.3	914.3	911.2	908.1	902.0	899.0	895.9	883.7	871.4	862.3	853.1
147.5°	920.4	920.4	915.8	914.3	909.7	906.6	903.5	891.3	879.1	871.4	862.3
150°	923.4	923.4	920.4	917.3	912.7	911.2	908.1	897.4	886.7	880.6	869.9
152.5°	926.5	926.5	923.4	920.4	915.8	914.3	909.7	902.0	891.3	885.2	876.0
155°	926.5	928.0	923.4	920.4	917.3	915.8	911.2	902.0	894.4	889.8	879.1
157.5°	925.0	925.0	923.4	920.4	915.8	914.3	909.7	900.5	894.4	892.8	880.6
160°	921.9	921.9	920.4	915.8	914.3	911.2	906.6	900.5	895.9	892.8	883.7
162.5°	917.3	915.8	914.3	911.2	909.7	908.1	905.1	897.4	892.8	891.3	882.1
165°	909.7	908.1	906.6	905.1	903.5	902.0	899.0	891.3	889.8	888.3	879.1
167.5°	902.0	899.0	897.4	894.4	894.4	891.3	889.8	885.2	883.7	883.7	877.6
170°	889.8	888.3	886.7	885.2	885.2	883.7	882.1	876.0	876.0	877.6	871.4
172.5°	880.6	877.6	877.6	876.0	876.0	874.5	873.0	868.4	868.4	869.9	866.9
175°	866.9	865.3	863.8	862.3	862.3	862.3	860.7	857.7	859.2	860.7	857.7
177.5°	850.0	845.5	847.0	847.0	850.0	848.5	848.5	845.5	847.0	850.0	848.5
180°	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7



TEST NUMBER: P303189

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3
2.5°	305.8	305.8	304.2	305.8	305.8	305.8	307.3	307.3	308.8	308.8	308.8
5°	305.8	304.2	304.2	304.2	305.8	305.8	305.8	307.3	307.3	307.3	307.3
7.5°	302.7	302.7	302.7	302.7	302.7	304.2	304.2	304.2	305.8	305.8	304.2
10°	301.2	299.7	299.7	299.7	301.2	301.2	301.2	302.7	302.7	302.7	301.2
12.5°	296.6	296.6	295.1	296.6	296.6	296.6	296.6	298.1	298.1	298.1	298.1
15°	292.0	292.0	290.5	292.0	292.0	292.0	292.0	293.5	295.1	293.5	293.5
17.5°	285.9	285.9	285.9	285.9	285.9	287.4	287.4	289.0	289.0	289.0	287.4
20°	279.8	279.8	279.8	279.8	279.8	279.8	281.3	281.3	282.8	282.8	281.3
22.5°	272.1	272.1	272.1	272.1	273.7	273.7	273.7	275.2	275.2	275.2	273.7
25°	266.0	264.5	264.5	264.5	266.0	266.0	266.0	267.5	267.5	267.5	267.5
27.5°	256.8	256.8	255.3	256.8	256.8	258.4	258.4	259.9	259.9	259.9	258.4
30°	249.2	247.7	247.7	247.7	249.2	249.2	250.7	250.7	252.3	250.7	250.7
32.5°	240.0	240.0	238.5	240.0	240.0	240.0	241.6	241.6	243.1	243.1	241.6
35°	230.9	229.3	229.3	230.9	230.9	230.9	232.4	232.4	233.9	232.4	232.4
37.5°	221.7	220.2	220.2	220.2	220.2	221.7	223.2	223.2	223.2	223.2	223.2
40°	211.0	211.0	211.0	211.0	211.0	211.0	212.5	212.5	214.0	212.5	212.5
42.5°	201.8	200.3	200.3	200.3	200.3	201.8	201.8	203.3	203.3	203.3	201.8
45°	191.1	191.1	191.1	189.6	189.6	191.1	192.6	192.6	192.6	192.6	191.1
47.5°	180.4	178.9	180.4	180.4	178.9	180.4	181.9	181.9	181.9	181.9	180.4
50°	168.2	168.2	168.2	169.7	168.2	169.7	171.2	171.2	171.2	169.7	169.7
52.5°	155.9	157.5	159.0	159.0	157.5	159.0	159.0	159.0	159.0	159.0	159.0
55°	145.2	146.8	146.8	146.8	146.8	148.3	148.3	148.3	148.3	148.3	148.3
57.5°	134.5	134.5	136.1	136.1	136.1	136.1	136.1	137.6	136.1	136.1	136.1
60°	122.3	123.8	125.4	125.4	125.4	125.4	125.4	126.9	125.4	125.4	125.4
62.5°	111.6	111.6	113.1	114.7	113.1	114.7	114.7	114.7	114.7	114.7	114.7
65°	100.9	100.9	102.4	102.4	102.4	102.4	102.4	104.0	102.4	104.0	104.0
67.5°	88.7	90.2	90.2	91.7	91.7	91.7	91.7	93.3	93.3	91.7	91.7
70°	78.0	78.0	79.5	79.5	81.0	81.0	81.0	81.0	81.0	81.0	81.0
72.5°	65.7	67.3	67.3	68.8	68.8	68.8	68.8	70.3	70.3	70.3	70.3
75°	55.0	56.6	56.6	58.1	56.6	58.1	58.1	58.1	59.6	58.1	59.6
77.5°	44.3	45.9	45.9	45.9	47.4	47.4	47.4	47.4	47.4	47.4	47.4
80°	33.6	35.2	35.2	35.2	36.7	36.7	36.7	36.7	36.7	36.7	36.7
82.5°	22.9	24.5	24.5	24.5	24.5	26.0	26.0	26.0	26.0	26.0	26.0
85°	13.8	13.8	13.8	15.3	15.3	15.3	15.3	16.8	16.8	16.8	16.8
87.5°	4.6	4.6	4.6	6.1	6.1	6.1	6.1	6.1	6.1	7.6	7.6
90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
92.5°	4.6	4.6	4.6	4.6	6.1	6.1	9.2	9.2	7.6	7.6	7.6
95°	9.2	9.2	12.2	15.3	18.3	21.4	24.5	24.5	21.4	18.3	16.8
97.5°	15.3	19.9	26.0	35.2	39.8	45.9	50.5	45.9	39.8	33.6	30.6
100°	27.5	36.7	52.0	70.3	78.0	84.1	85.6	76.4	64.2	52.0	47.4
102.5°	52.0	70.3	102.4	126.9	133.0	137.6	130.0	113.1	96.3	78.0	68.8
105°	99.4	140.7	185.0	197.2	200.3	197.2	180.4	155.9	133.0	110.1	96.3
107.5°	203.3	250.7	278.3	272.1	264.5	255.3	230.9	201.8	174.3	145.2	128.4
110°	337.9	357.8	356.2	334.8	319.5	305.8	279.8	247.7	215.6	185.0	163.6



TEST NUMBER: P303189

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	449.5	438.8	417.4	386.8	370.0	353.2	325.6	293.5	258.4	226.3	203.3
115°	516.8	493.8	464.8	437.3	420.4	402.1	370.0	336.3	301.2	267.5	243.1
117.5°	564.1	538.2	510.6	480.1	463.2	446.4	415.8	377.6	342.5	308.8	282.8
120°	602.4	574.8	545.8	518.3	503.0	487.7	455.6	420.4	382.2	350.1	321.1
122.5°	637.5	610.0	584.0	555.0	538.2	524.4	490.8	457.1	423.5	389.9	359.3
125°	669.6	645.2	614.6	587.1	573.3	558.0	525.9	492.3	461.7	429.6	400.6
127.5°	698.7	674.2	646.7	616.1	602.4	588.6	555.0	524.4	496.9	464.8	437.3
130°	724.7	700.2	674.2	645.2	632.9	617.7	587.1	556.5	530.5	501.5	472.4
132.5°	749.1	724.7	698.7	671.2	657.4	643.6	617.7	587.1	562.6	536.6	507.6
135°	770.5	746.1	720.1	692.6	680.3	668.1	642.1	616.1	590.1	567.2	539.7
137.5°	788.9	766.0	740.0	714.0	703.3	691.0	666.6	642.1	619.2	596.3	570.3
140°	805.7	782.8	756.8	732.3	721.6	712.4	688.0	666.6	646.7	623.8	599.3
142.5°	821.0	796.5	772.1	749.1	740.0	730.8	709.4	689.5	671.2	648.2	626.8
145°	833.2	808.8	785.8	764.4	758.3	747.6	727.7	710.9	692.6	672.7	652.8
147.5°	845.5	822.5	799.6	779.7	773.6	764.4	747.6	730.8	714.0	695.6	677.3
150°	853.1	831.7	811.8	795.0	788.9	779.7	762.9	749.1	735.4	717.0	698.7
152.5°	859.2	839.3	821.0	807.2	802.6	795.0	779.7	769.0	753.7	738.4	721.6
155°	863.8	845.5	830.2	817.9	813.3	808.8	793.5	784.3	770.5	756.8	741.5
157.5°	866.9	850.0	836.3	827.1	822.5	817.9	804.2	796.5	785.8	773.6	758.3
160°	868.4	853.1	842.4	834.8	830.2	825.6	816.4	807.2	796.5	787.4	775.1
162.5°	868.4	856.2	845.5	839.3	836.3	833.2	824.0	816.4	808.8	799.6	788.9
165°	868.4	857.7	848.5	843.9	840.9	839.3	830.2	825.6	817.9	810.3	801.1
167.5°	865.3	856.2	850.0	847.0	843.9	842.4	836.3	830.2	825.6	821.0	811.8
170°	862.3	854.6	848.5	847.0	845.5	843.9	839.3	836.3	833.2	828.6	821.0
172.5°	857.7	851.6	847.0	845.5	845.5	843.9	840.9	839.3	837.8	834.8	828.6
175°	850.0	845.5	840.9	842.4	842.4	842.4	839.3	840.9	839.3	837.8	833.2
177.5°	840.9	837.8	836.3	837.8	837.8	837.8	837.8	839.3	840.9	840.9	836.3
180°	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7



TEST NUMBER: P303189

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3
2.5°	305.8	304.2	304.2	304.2	305.8	305.8	305.8	305.8	307.3	307.3	307.3
5°	304.2	302.7	302.7	302.7	304.2	304.2	304.2	304.2	305.8	305.8	305.8
7.5°	302.7	301.2	301.2	301.2	301.2	302.7	302.7	301.2	302.7	304.2	302.7
10°	299.7	298.1	298.1	298.1	298.1	299.7	299.7	298.1	299.7	299.7	299.7
12.5°	295.1	293.5	293.5	293.5	295.1	295.1	295.1	293.5	295.1	296.6	295.1
15°	290.5	289.0	289.0	289.0	289.0	290.5	290.5	289.0	290.5	290.5	289.0
17.5°	285.9	284.4	282.8	282.8	284.4	284.4	284.4	282.8	284.4	284.4	282.8
20°	278.3	276.7	276.7	276.7	278.3	278.3	276.7	276.7	278.3	276.7	276.7
22.5°	272.1	270.6	270.6	270.6	270.6	270.6	270.6	269.1	270.6	269.1	269.1
25°	264.5	263.0	263.0	263.0	263.0	263.0	261.4	261.4	263.0	261.4	259.9
27.5°	256.8	255.3	255.3	255.3	255.3	255.3	253.8	253.8	253.8	252.3	252.3
30°	247.7	247.7	246.1	246.1	246.1	246.1	244.6	244.6	246.1	244.6	243.1
32.5°	240.0	238.5	238.5	238.5	238.5	237.0	235.4	235.4	235.4	235.4	233.9
35°	229.3	229.3	229.3	229.3	227.8	227.8	226.3	227.8	226.3	224.7	224.7
37.5°	220.2	220.2	218.6	218.6	218.6	218.6	217.1	218.6	217.1	215.6	214.0
40°	211.0	209.5	209.5	209.5	209.5	207.9	207.9	207.9	206.4	204.9	204.9
42.5°	200.3	200.3	198.8	200.3	198.8	198.8	197.2	198.8	197.2	195.7	194.2
45°	189.6	189.6	189.6	189.6	189.6	188.0	188.0	188.0	186.5	185.0	183.5
47.5°	178.9	178.9	178.9	180.4	178.9	177.3	177.3	177.3	175.8	174.3	172.8
50°	168.2	168.2	168.2	168.2	168.2	166.6	166.6	165.1	165.1	163.6	162.1
52.5°	157.5	157.5	157.5	159.0	157.5	155.9	155.9	155.9	154.4	152.9	151.4
55°	146.8	146.8	148.3	146.8	146.8	146.8	145.2	145.2	143.7	142.2	140.7
57.5°	136.1	136.1	136.1	136.1	136.1	134.5	134.5	134.5	133.0	131.5	130.0
60°	125.4	125.4	125.4	125.4	123.8	123.8	123.8	122.3	120.8	119.3	119.3
62.5°	113.1	114.7	114.7	113.1	113.1	113.1	111.6	111.6	110.1	110.1	108.5
65°	102.4	104.0	102.4	102.4	102.4	102.4	100.9	100.9	99.4	97.8	97.8
67.5°	91.7	91.7	91.7	91.7	91.7	90.2	90.2	88.7	88.7	87.1	87.1
70°	81.0	81.0	79.5	79.5	81.0	79.5	78.0	78.0	78.0	76.4	76.4
72.5°	70.3	70.3	68.8	68.8	68.8	68.8	67.3	67.3	65.7	65.7	64.2
75°	58.1	58.1	58.1	58.1	58.1	56.6	56.6	56.6	55.0	55.0	53.5
77.5°	47.4	47.4	47.4	47.4	47.4	45.9	45.9	45.9	45.9	44.3	44.3
80°	36.7	36.7	36.7	36.7	36.7	35.2	35.2	35.2	33.6	33.6	32.1
82.5°	26.0	26.0	26.0	26.0	26.0	24.5	24.5	24.5	22.9	22.9	22.9
85°	16.8	15.3	15.3	15.3	15.3	15.3	13.8	13.8	13.8	13.8	12.2
87.5°	7.6	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	4.6	6.1
90°	1.5	3.1	3.1	4.6	4.6	4.6	4.6	6.1	6.1	6.1	6.1
92.5°	12.2	15.3	15.3	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
95°	19.9	22.9	29.0	30.6	32.1	35.2	35.2	35.2	33.6	33.6	33.6
97.5°	29.0	33.6	33.6	36.7	38.2	44.3	48.9	50.5	53.5	53.5	53.5
100°	44.3	42.8	47.4	50.5	50.5	50.5	53.5	59.6	62.7	65.7	67.3
102.5°	64.2	58.1	58.1	59.6	62.7	68.8	64.2	65.7	68.8	71.9	76.4
105°	85.6	79.5	74.9	73.4	74.9	79.5	84.1	82.6	79.5	81.0	84.1
107.5°	113.1	102.4	93.3	91.7	91.7	91.7	96.3	100.9	104.0	100.9	97.8
110°	145.2	128.4	119.3	111.6	110.1	108.5	108.5	111.6	117.7	122.3	123.8



TEST NUMBER: P303189

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	180.4	160.5	145.2	137.6	133.0	126.9	125.4	125.4	128.4	134.5	139.1
115°	217.1	195.7	175.8	168.2	160.5	149.8	145.2	142.2	142.2	145.2	149.8
117.5°	255.3	232.4	211.0	198.8	192.6	177.3	166.6	160.5	159.0	159.0	162.1
120°	293.5	272.1	247.7	233.9	226.3	209.5	194.2	181.9	177.3	175.8	174.3
122.5°	331.8	308.8	285.9	272.1	263.0	243.1	227.8	209.5	201.8	194.2	192.6
125°	370.0	347.0	322.6	311.9	299.7	278.3	261.4	243.1	229.3	218.6	211.0
127.5°	409.7	383.7	359.3	351.6	337.9	316.5	298.1	279.8	264.5	249.2	238.5
130°	444.9	423.5	400.6	388.3	376.1	354.7	333.3	314.9	301.2	285.9	272.1
132.5°	480.1	458.7	437.3	429.6	417.4	392.9	373.0	351.6	336.3	321.1	308.8
135°	512.2	490.8	470.9	463.2	452.5	431.1	412.8	391.4	371.5	357.8	345.5
137.5°	542.7	522.9	503.0	495.3	486.2	466.3	449.5	431.1	412.8	399.0	380.7
140°	573.3	553.4	535.1	527.5	518.3	499.9	481.6	467.8	449.5	435.7	422.0
142.5°	602.4	582.5	564.1	556.5	550.4	532.0	515.2	503.0	487.7	472.4	460.2
145°	629.9	608.5	593.2	585.5	579.4	562.6	547.3	536.6	524.4	509.1	496.9
147.5°	654.3	634.5	619.2	614.6	608.5	594.7	579.4	567.2	558.0	544.3	532.0
150°	677.3	658.9	645.2	640.6	636.0	620.7	607.0	596.3	588.6	576.4	564.1
152.5°	701.7	683.4	671.2	666.6	660.5	648.2	636.0	623.8	617.7	608.5	596.3
155°	721.6	706.3	694.1	689.5	683.4	674.2	660.5	651.3	646.7	636.0	625.3
157.5°	741.5	726.2	715.5	710.9	706.3	697.2	684.9	675.8	672.7	663.5	654.3
160°	758.3	744.5	733.8	729.3	726.2	718.6	707.9	698.7	697.2	691.0	681.9
162.5°	773.6	759.8	752.2	747.6	744.5	740.0	729.3	720.1	718.6	714.0	706.3
165°	785.8	773.6	767.5	764.4	762.9	758.3	749.1	740.0	740.0	736.9	727.7
167.5°	799.6	787.4	781.2	779.7	778.2	773.6	767.5	759.8	759.8	756.8	749.1
170°	810.3	799.6	795.0	793.5	791.9	788.9	784.3	776.7	778.2	775.1	769.0
172.5°	817.9	810.3	807.2	804.2	804.2	802.6	799.6	793.5	795.0	793.5	787.4
175°	824.0	816.4	816.4	813.3	814.9	814.9	810.3	805.7	808.8	810.3	804.2
177.5°	828.6	822.5	822.5	822.5	824.0	824.0	822.5	817.9	821.0	824.0	817.9
180°	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7



TEST NUMBER: P303189

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3
2.5°	307.3	307.3	307.3	305.8	307.3	304.2	302.7	302.7
5°	304.2	304.2	304.2	304.2	304.2	304.2	302.7	302.7
7.5°	302.7	302.7	301.2	301.2	302.7	302.7	301.2	301.2
10°	298.1	298.1	298.1	298.1	299.7	298.1	298.1	298.1
12.5°	295.1	293.5	293.5	293.5	295.1	293.5	293.5	293.5
15°	289.0	289.0	289.0	289.0	290.5	289.0	289.0	289.0
17.5°	282.8	282.8	282.8	282.8	284.4	282.8	281.3	281.3
20°	276.7	275.2	275.2	275.2	275.2	275.2	273.7	273.7
22.5°	267.5	267.5	267.5	267.5	267.5	266.0	266.0	266.0
25°	259.9	258.4	258.4	259.9	258.4	258.4	256.8	256.8
27.5°	250.7	250.7	250.7	250.7	250.7	249.2	247.7	247.7
30°	243.1	241.6	241.6	241.6	241.6	240.0	238.5	238.5
32.5°	233.9	232.4	232.4	232.4	232.4	229.3	229.3	229.3
35°	223.2	223.2	223.2	223.2	221.7	220.2	220.2	218.6
37.5°	214.0	212.5	212.5	212.5	211.0	211.0	209.5	209.5
40°	203.3	203.3	203.3	203.3	201.8	200.3	198.8	198.8
42.5°	192.6	192.6	192.6	192.6	191.1	189.6	189.6	189.6
45°	183.5	181.9	181.9	181.9	180.4	180.4	178.9	178.9
47.5°	172.8	172.8	171.2	171.2	171.2	169.7	168.2	168.2
50°	162.1	162.1	162.1	160.5	159.0	159.0	159.0	157.5
52.5°	151.4	151.4	151.4	149.8	149.8	148.3	148.3	148.3
55°	140.7	140.7	140.7	139.1	139.1	137.6	137.6	137.6
57.5°	130.0	130.0	130.0	128.4	128.4	126.9	126.9	126.9
60°	119.3	119.3	117.7	117.7	117.7	116.2	116.2	116.2
62.5°	108.5	107.0	107.0	107.0	107.0	105.5	105.5	105.5
65°	97.8	96.3	96.3	96.3	96.3	94.8	94.8	94.8
67.5°	87.1	85.6	85.6	85.6	85.6	84.1	84.1	84.1
70°	74.9	74.9	74.9	74.9	74.9	73.4	73.4	73.4
72.5°	64.2	64.2	64.2	64.2	62.7	62.7	62.7	62.7
75°	53.5	53.5	53.5	53.5	52.0	52.0	52.0	52.0
77.5°	42.8	42.8	42.8	42.8	42.8	41.3	41.3	42.8
80°	32.1	32.1	32.1	32.1	32.1	30.6	30.6	30.6
82.5°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	19.9
85°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
87.5°	4.6	6.1	6.1	6.1	6.1	6.1	6.1	6.1
90°	6.1	7.6	7.6	7.6	7.6	9.2	9.2	9.2
92.5°	16.8	18.3	18.3	16.8	18.3	18.3	18.3	18.3
95°	32.1	33.6	33.6	32.1	33.6	33.6	33.6	33.6
97.5°	53.5	53.5	53.5	52.0	53.5	52.0	52.0	52.0
100°	68.8	68.8	70.3	70.3	71.9	71.9	70.3	71.9
102.5°	78.0	79.5	81.0	81.0	82.6	82.6	84.1	84.1
105°	85.6	87.1	88.7	88.7	91.7	93.3	94.8	94.8
107.5°	97.8	97.8	99.4	99.4	100.9	100.9	100.9	102.4
110°	122.3	117.7	116.2	116.2	114.7	114.7	114.7	114.7



TEST NUMBER: P303189

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	142.2	142.2	143.7	143.7	143.7	142.2	139.1	140.7
115°	154.4	157.5	157.5	159.0	159.0	160.5	160.5	162.1
117.5°	163.6	166.6	168.2	169.7	172.8	174.3	174.3	174.3
120°	175.8	177.3	178.9	178.9	180.4	181.9	183.5	183.5
122.5°	191.1	189.6	191.1	191.1	191.1	192.6	192.6	192.6
125°	207.9	206.4	204.9	204.9	203.3	203.3	203.3	203.3
127.5°	230.9	226.3	224.7	223.2	220.2	220.2	218.6	220.2
130°	261.4	253.8	250.7	247.7	241.6	241.6	238.5	238.5
132.5°	296.6	287.4	282.8	279.8	272.1	269.1	266.0	266.0
135°	334.8	325.6	319.5	316.5	307.3	304.2	301.2	298.1
137.5°	371.5	362.3	357.8	356.2	347.0	344.0	337.9	336.3
140°	411.3	402.1	397.5	394.4	383.7	379.2	376.1	374.6
142.5°	449.5	438.8	434.2	432.7	425.0	420.4	415.8	414.3
145°	486.2	475.5	470.9	470.9	461.7	458.7	454.1	451.0
147.5°	522.9	512.2	507.6	507.6	499.9	493.8	490.8	487.7
150°	556.5	547.3	542.7	542.7	535.1	529.0	524.4	522.9
152.5°	587.1	579.4	576.4	576.4	570.3	564.1	561.1	559.6
155°	617.7	611.5	607.0	607.0	602.4	596.3	594.7	593.2
157.5°	648.2	642.1	637.5	639.1	632.9	628.4	625.3	625.3
160°	675.8	671.2	666.6	666.6	663.5	658.9	652.8	654.3
162.5°	703.3	697.2	694.1	694.1	692.6	686.5	680.3	681.9
165°	723.1	720.1	718.6	718.6	717.0	712.4	707.9	707.9
167.5°	744.5	741.5	740.0	740.0	738.4	735.4	730.8	732.3
170°	766.0	762.9	761.4	759.8	759.8	756.8	753.7	753.7
172.5°	785.8	782.8	781.2	781.2	782.8	779.7	775.1	775.1
175°	802.6	801.1	798.1	798.1	798.1	795.0	791.9	791.9
177.5°	817.9	816.4	816.4	814.9	816.4	811.8	807.2	807.2
180°	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7

(END OF REPORT)