

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: P303182

Luminaire Tested: **CTW-F-7525-20L830-UNV-STD-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303182  
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-4  
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**

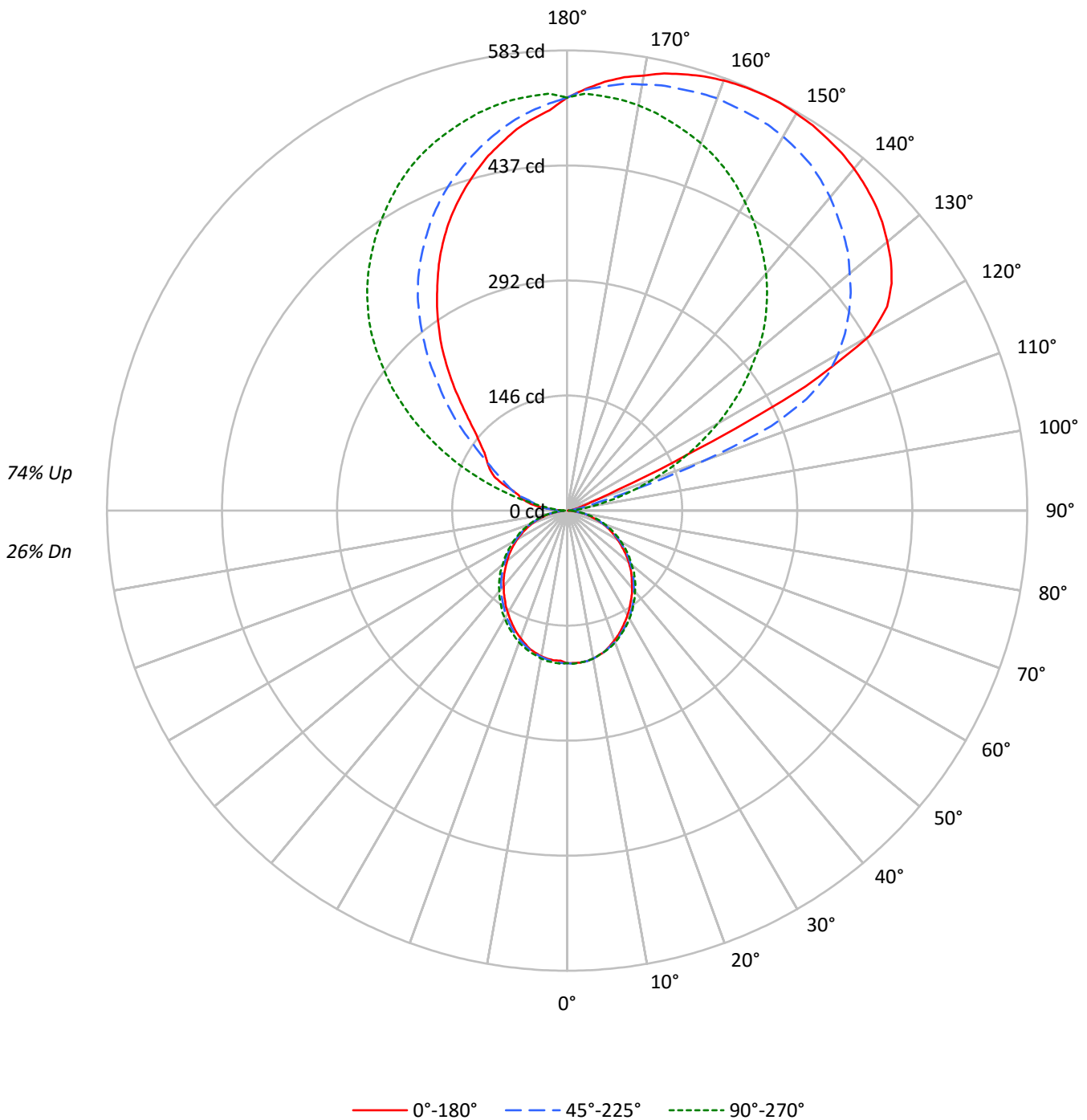
Lumens per Lamp: N/A  
Luminaire Lumens: 1995.9 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.32  
Luminous Opening: Rectangular (W 4' x L: 0.12' x H: 0')  
CIE Type: Semi-Indirect

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°	4161	4161	4161
5°	4177	4177	4115
10°	4162	4162	4099
15°	4114	4114	4050
20°	4009	4076	3943
25°	3905	3998	3836
30°	3801	3920	3729
35°	3690	3842	3614
40°	3594	3757	3513
45°	3513	3690	3425
50°	3413	3574	3316
55°	3284	3502	3247
60°	3186	3393	3147
65°	3087	3331	3036
70°	2965	3210	2908
75°	2720	3036	2720
80°	2380	2864	2380
85°	1655	2618	1902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.2	0.9
10°-20°	51.6	2.6
20°-30°	76.2	3.8
30°-40°	89.4	4.5
40°-50°	90.6	4.5
50°-60°	80.8	4.0
60°-70°	62.0	3.1
70°-80°	36.8	1.8
80°-90°	10.4	0.5
90°-100°	15.7	0.8
100°-110°	63.8	3.2
110°-120°	178.8	9.0
120°-130°	260.7	13.1
130°-140°	280.8	14.1
140°-150°	267.5	13.4
150°-160°	219.6	11.0
160°-170°	143.4	7.2
170°-180°	49.7	2.5
0°-30°	146.1	7.3
0°-40°	235.5	11.8
0°-60°	406.9	20.4
0°-90°	515.9	25.9
90°-120°	258.3	12.9
90°-150°	1067.3	53.5
90°-180°	1480.0	74.2
0°-180°	1995.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	193	193	193	193	193	
5°	193	193	193	192	190	18
15°	185	185	185	183	182	52
25°	164	167	168	165	162	76
35°	140	145	146	142	138	88
45°	115	118	121	117	112	89
55°	88	90	93	90	86	79
65°	61	62	65	62	60	60
75°	33	35	36	35	33	35
85°	7	9	11	9	8	8
90°	1	1	1	4	6	1
95°	4	5	12	21	21	4
105°	17	42	69	50	60	20
115°	169	335	168	89	102	200
125°	502	436	270	144	128	445
135°	551	495	357	234	188	425
145°	575	536	423	330	284	361
155°	583	553	476	407	373	269
165°	572	553	510	465	445	162
175°	545	539	527	509	498	52
180°	523	523	523	523	523	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3
2.5°	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	194.2	194.2
5°	193.3	193.3	193.3	193.3	193.3	193.3	193.3	192.3	193.3	193.3	193.3
7.5°	192.3	192.3	192.3	192.3	192.3	192.3	191.3	191.3	191.3	192.3	192.3
10°	190.4	190.4	190.4	189.4	189.4	190.4	189.4	189.4	190.4	190.4	190.4
12.5°	187.5	187.5	187.5	187.5	187.5	187.5	187.5	186.5	187.5	188.5	187.5
15°	184.6	184.6	184.6	184.6	184.6	184.6	184.6	183.7	184.6	185.6	184.6
17.5°	179.8	179.8	179.8	179.8	180.8	180.8	180.8	179.8	180.8	181.7	180.8
20°	175.0	175.0	175.0	176.0	176.0	176.0	176.0	176.0	176.0	176.9	176.9
22.5°	170.2	170.2	170.2	170.2	171.2	171.2	171.2	170.2	171.2	172.1	172.1
25°	164.4	164.4	164.4	164.4	165.4	165.4	165.4	165.4	166.3	167.3	167.3
27.5°	158.7	158.7	158.7	159.6	160.6	160.6	160.6	160.6	160.6	161.5	162.5
30°	152.9	152.9	152.9	153.8	153.8	154.8	154.8	154.8	154.8	155.8	156.7
32.5°	147.1	147.1	147.1	148.1	148.1	148.1	149.0	149.0	149.0	150.0	151.0
35°	140.4	141.3	141.3	141.3	142.3	142.3	142.3	142.3	143.3	144.2	145.2
37.5°	134.6	134.6	134.6	134.6	135.6	135.6	135.6	136.5	136.5	137.5	138.5
40°	127.9	127.9	127.9	128.8	128.8	128.8	129.8	129.8	130.8	131.7	131.7
42.5°	121.2	121.2	121.2	122.1	122.1	122.1	123.1	124.0	124.0	125.0	125.0
45°	115.4	114.4	115.4	115.4	115.4	115.4	116.3	116.3	117.3	118.3	118.3
47.5°	108.7	107.7	108.7	108.7	108.7	108.7	109.6	109.6	110.6	110.6	111.5
50°	101.9	101.0	101.9	101.9	101.9	101.9	102.9	102.9	103.8	103.8	104.8
52.5°	95.2	95.2	95.2	95.2	95.2	95.2	95.2	96.2	97.1	97.1	98.1
55°	87.5	87.5	88.5	88.5	88.5	88.5	88.5	89.4	89.4	90.4	90.4
57.5°	80.8	80.8	80.8	81.7	81.7	81.7	81.7	82.7	82.7	83.7	83.7
60°	74.0	74.0	74.0	74.0	75.0	75.0	75.0	75.0	76.0	76.9	76.9
62.5°	67.3	67.3	67.3	67.3	68.3	68.3	67.3	68.3	68.3	69.2	69.2
65°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	61.5	61.5	62.5	62.5
67.5°	53.8	52.9	53.8	53.8	53.8	53.8	53.8	54.8	54.8	54.8	55.8
70°	47.1	46.2	46.2	46.2	47.1	47.1	47.1	48.1	47.1	48.1	48.1
72.5°	39.4	39.4	39.4	39.4	39.4	40.4	40.4	40.4	40.4	41.3	41.3
75°	32.7	32.7	32.7	32.7	32.7	32.7	33.7	33.7	33.7	34.6	34.6
77.5°	26.0	26.0	26.0	26.0	26.0	26.0	26.9	26.9	26.9	26.9	27.9
80°	19.2	19.2	19.2	19.2	19.2	19.2	20.2	20.2	20.2	20.2	21.2
82.5°	12.5	12.5	12.5	13.5	12.5	13.5	13.5	13.5	13.5	13.5	14.4
85°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.7	7.7	8.7
87.5°	1.9	1.0	1.0	1.9	1.0	1.9	1.9	1.9	1.9	1.9	1.9
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°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
95°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.8	4.8
97.5°	5.8	5.8	5.8	5.8	5.8	6.7	6.7	6.7	6.7	7.7	8.7
100°	8.7	8.7	8.7	8.7	9.6	9.6	9.6	10.6	10.6	12.5	13.5
102.5°	12.5	12.5	12.5	12.5	13.5	13.5	14.4	15.4	16.3	19.2	24.0
105°	17.3	17.3	17.3	18.3	19.2	19.2	20.2	22.1	26.0	31.7	42.3
107.5°	24.0	24.0	25.0	26.0	27.9	28.8	30.8	37.5	46.2	61.5	92.3
110°	36.5	36.5	38.5	41.3	47.1	51.0	57.7	76.0	102.9	142.3	184.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	69.2	70.2	77.9	83.7	102.9	117.3	137.5	177.9	219.2	254.8	279.8
115°	169.2	172.1	191.3	201.9	245.2	253.8	276.0	314.4	332.7	337.5	334.6
117.5°	340.4	341.3	354.8	363.5	379.8	385.6	387.5	394.2	390.4	382.7	372.1
120°	442.3	440.4	442.3	439.4	440.4	438.5	435.6	429.8	420.2	409.6	396.2
122.5°	480.8	479.8	477.9	472.1	469.2	465.4	460.6	453.8	444.2	430.8	417.3
125°	501.9	501.0	499.0	493.3	488.5	484.6	480.8	473.1	461.5	450.0	435.6
127.5°	517.3	516.3	513.5	509.6	503.8	500.0	496.2	488.5	476.9	465.4	452.9
130°	529.8	528.8	526.0	523.1	517.3	514.4	510.6	502.9	491.3	479.8	467.3
132.5°	541.3	540.4	538.5	535.6	529.8	526.0	523.1	516.3	503.8	492.3	482.7
135°	551.0	549.0	549.0	545.2	539.4	536.5	533.7	526.9	515.4	504.8	495.2
137.5°	558.7	557.7	555.8	552.9	548.1	545.2	542.3	535.6	526.0	515.4	506.7
140°	565.4	564.4	563.5	560.6	555.8	552.9	551.0	543.3	534.6	526.0	518.3
142.5°	571.2	570.2	568.3	566.3	561.5	559.6	557.7	551.0	541.3	534.6	527.9
145°	575.0	575.0	573.1	571.2	567.3	565.4	563.5	555.8	548.1	542.3	536.5
147.5°	578.8	578.8	576.0	575.0	572.1	570.2	568.3	560.6	552.9	548.1	542.3
150°	580.8	580.8	578.8	576.9	574.0	573.1	571.2	564.4	557.7	553.8	547.1
152.5°	582.7	582.7	580.8	578.8	576.0	575.0	572.1	567.3	560.6	556.7	551.0
155°	582.7	583.7	580.8	578.8	576.9	576.0	573.1	567.3	562.5	559.6	552.9
157.5°	581.7	581.7	580.8	578.8	576.0	575.0	572.1	566.3	562.5	561.5	553.8
160°	579.8	579.8	578.8	576.0	575.0	573.1	570.2	566.3	563.5	561.5	555.8
162.5°	576.9	576.0	575.0	573.1	572.1	571.2	569.2	564.4	561.5	560.6	554.8
165°	572.1	571.2	570.2	569.2	568.3	567.3	565.4	560.6	559.6	558.7	552.9
167.5°	567.3	565.4	564.4	562.5	562.5	560.6	559.6	556.7	555.8	555.8	551.9
170°	559.6	558.7	557.7	556.7	556.7	555.8	554.8	551.0	551.0	551.9	548.1
172.5°	553.8	551.9	551.9	551.0	551.0	550.0	549.0	546.2	546.2	547.1	545.2
175°	545.2	544.2	543.3	542.3	542.3	542.3	541.3	539.4	540.4	541.3	539.4
177.5°	534.6	531.7	532.7	532.7	534.6	533.7	533.7	531.7	532.7	534.6	533.7
180°	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3
2.5°	192.3	192.3	191.3	192.3	192.3	192.3	193.3	193.3	194.2	194.2	194.2
5°	192.3	191.3	191.3	191.3	192.3	192.3	192.3	193.3	193.3	193.3	193.3
7.5°	190.4	190.4	190.4	190.4	190.4	191.3	191.3	191.3	192.3	192.3	191.3
10°	189.4	188.5	188.5	188.5	189.4	189.4	189.4	190.4	190.4	190.4	189.4
12.5°	186.5	186.5	185.6	186.5	186.5	186.5	186.5	187.5	187.5	187.5	187.5
15°	183.7	183.7	182.7	183.7	183.7	183.7	183.7	184.6	185.6	184.6	184.6
17.5°	179.8	179.8	179.8	179.8	179.8	180.8	180.8	181.7	181.7	181.7	180.8
20°	176.0	176.0	176.0	176.0	176.0	176.0	176.9	176.9	177.9	177.9	176.9
22.5°	171.2	171.2	171.2	171.2	172.1	172.1	172.1	173.1	173.1	173.1	172.1
25°	167.3	166.3	166.3	166.3	167.3	167.3	167.3	168.3	168.3	168.3	168.3
27.5°	161.5	161.5	160.6	161.5	161.5	162.5	162.5	163.5	163.5	163.5	162.5
30°	156.7	155.8	155.8	155.8	156.7	156.7	157.7	157.7	158.7	157.7	157.7
32.5°	151.0	151.0	150.0	151.0	151.0	151.0	151.9	151.9	152.9	152.9	151.9
35°	145.2	144.2	144.2	145.2	145.2	145.2	146.2	146.2	147.1	146.2	146.2
37.5°	139.4	138.5	138.5	138.5	138.5	139.4	140.4	140.4	140.4	140.4	140.4
40°	132.7	132.7	132.7	132.7	132.7	132.7	133.7	133.7	134.6	133.7	133.7
42.5°	126.9	126.0	126.0	126.0	126.0	126.9	126.9	127.9	127.9	127.9	126.9
45°	120.2	120.2	120.2	119.2	119.2	120.2	121.2	121.2	121.2	121.2	120.2
47.5°	113.5	112.5	113.5	113.5	112.5	113.5	114.4	114.4	114.4	114.4	113.5
50°	105.8	105.8	105.8	106.7	105.8	106.7	107.7	107.7	107.7	106.7	106.7
52.5°	98.1	99.0	100.0	100.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0
55°	91.3	92.3	92.3	92.3	92.3	93.3	93.3	93.3	93.3	93.3	93.3
57.5°	84.6	84.6	85.6	85.6	85.6	85.6	85.6	86.5	85.6	85.6	85.6
60°	76.9	77.9	78.8	78.8	78.8	78.8	78.8	79.8	78.8	78.8	78.8
62.5°	70.2	70.2	71.2	72.1	71.2	72.1	72.1	72.1	72.1	72.1	72.1
65°	63.5	63.5	64.4	64.4	64.4	64.4	64.4	65.4	64.4	65.4	65.4
67.5°	55.8	56.7	56.7	57.7	57.7	57.7	57.7	58.7	58.7	57.7	57.7
70°	49.0	49.0	50.0	50.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
72.5°	41.3	42.3	42.3	43.3	43.3	43.3	43.3	44.2	44.2	44.2	44.2
75°	34.6	35.6	35.6	36.5	35.6	36.5	36.5	36.5	37.5	36.5	37.5
77.5°	27.9	28.8	28.8	28.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
80°	21.2	22.1	22.1	22.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
82.5°	14.4	15.4	15.4	15.4	15.4	16.3	16.3	16.3	16.3	16.3	16.3
85°	8.7	8.7	8.7	9.6	9.6	9.6	9.6	10.6	10.6	10.6	10.6
87.5°	2.9	2.9	2.9	3.8	3.8	3.8	3.8	3.8	3.8	4.8	4.8
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°	2.9	2.9	2.9	2.9	3.8	3.8	5.8	5.8	4.8	4.8	4.8
95°	5.8	5.8	7.7	9.6	11.5	13.5	15.4	15.4	13.5	11.5	10.6
97.5°	9.6	12.5	16.3	22.1	25.0	28.8	31.7	28.8	25.0	21.2	19.2
100°	17.3	23.1	32.7	44.2	49.0	52.9	53.8	48.1	40.4	32.7	29.8
102.5°	32.7	44.2	64.4	79.8	83.7	86.5	81.7	71.2	60.6	49.0	43.3
105°	62.5	88.5	116.3	124.0	126.0	124.0	113.5	98.1	83.7	69.2	60.6
107.5°	127.9	157.7	175.0	171.2	166.3	160.6	145.2	126.9	109.6	91.3	80.8
110°	212.5	225.0	224.0	210.6	201.0	192.3	176.0	155.8	135.6	116.3	102.9





TEST NUMBER: P303182

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	282.7	276.0	262.5	243.3	232.7	222.1	204.8	184.6	162.5	142.3	127.9
115°	325.0	310.6	292.3	275.0	264.4	252.9	232.7	211.5	189.4	168.3	152.9
117.5°	354.8	338.5	321.2	301.9	291.3	280.8	261.5	237.5	215.4	194.2	177.9
120°	378.8	361.5	343.3	326.0	316.3	306.7	286.5	264.4	240.4	220.2	201.9
122.5°	401.0	383.7	367.3	349.0	338.5	329.8	308.7	287.5	266.3	245.2	226.0
125°	421.2	405.8	386.5	369.2	360.6	351.0	330.8	309.6	290.4	270.2	251.9
127.5°	439.4	424.0	406.7	387.5	378.8	370.2	349.0	329.8	312.5	292.3	275.0
130°	455.8	440.4	424.0	405.8	398.1	388.5	369.2	350.0	333.7	315.4	297.1
132.5°	471.2	455.8	439.4	422.1	413.5	404.8	388.5	369.2	353.8	337.5	319.2
135°	484.6	469.2	452.9	435.6	427.9	420.2	403.8	387.5	371.2	356.7	339.4
137.5°	496.2	481.7	465.4	449.0	442.3	434.6	419.2	403.8	389.4	375.0	358.7
140°	506.7	492.3	476.0	460.6	453.8	448.1	432.7	419.2	406.7	392.3	376.9
142.5°	516.3	501.0	485.6	471.2	465.4	459.6	446.2	433.7	422.1	407.7	394.2
145°	524.0	508.7	494.2	480.8	476.9	470.2	457.7	447.1	435.6	423.1	410.6
147.5°	531.7	517.3	502.9	490.4	486.5	480.8	470.2	459.6	449.0	437.5	426.0
150°	536.5	523.1	510.6	500.0	496.2	490.4	479.8	471.2	462.5	451.0	439.4
152.5°	540.4	527.9	516.3	507.7	504.8	500.0	490.4	483.7	474.0	464.4	453.8
155°	543.3	531.7	522.1	514.4	511.5	508.7	499.0	493.3	484.6	476.0	466.3
157.5°	545.2	534.6	526.0	520.2	517.3	514.4	505.8	501.0	494.2	486.5	476.9
160°	546.2	536.5	529.8	525.0	522.1	519.2	513.5	507.7	501.0	495.2	487.5
162.5°	546.2	538.5	531.7	527.9	526.0	524.0	518.3	513.5	508.7	502.9	496.2
165°	546.2	539.4	533.7	530.8	528.8	527.9	522.1	519.2	514.4	509.6	503.8
167.5°	544.2	538.5	534.6	532.7	530.8	529.8	526.0	522.1	519.2	516.3	510.6
170°	542.3	537.5	533.7	532.7	531.7	530.8	527.9	526.0	524.0	521.2	516.3
172.5°	539.4	535.6	532.7	531.7	531.7	530.8	528.8	527.9	526.9	525.0	521.2
175°	534.6	531.7	528.8	529.8	529.8	529.8	527.9	528.8	527.9	526.9	524.0
177.5°	528.8	526.9	526.0	526.9	526.9	526.9	526.9	527.9	528.8	528.8	526.0
180°	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1



TEST NUMBER: P303182

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3
2.5°	192.3	191.3	191.3	191.3	192.3	192.3	192.3	192.3	193.3	193.3	193.3
5°	191.3	190.4	190.4	190.4	191.3	191.3	191.3	191.3	192.3	192.3	192.3
7.5°	190.4	189.4	189.4	189.4	189.4	190.4	190.4	189.4	190.4	191.3	190.4
10°	188.5	187.5	187.5	187.5	187.5	188.5	188.5	187.5	188.5	188.5	188.5
12.5°	185.6	184.6	184.6	184.6	185.6	185.6	185.6	184.6	185.6	186.5	185.6
15°	182.7	181.7	181.7	181.7	181.7	182.7	182.7	181.7	182.7	182.7	181.7
17.5°	179.8	178.8	177.9	177.9	178.8	178.8	178.8	177.9	178.8	178.8	177.9
20°	175.0	174.0	174.0	174.0	175.0	175.0	174.0	174.0	175.0	174.0	174.0
22.5°	171.2	170.2	170.2	170.2	170.2	170.2	170.2	169.2	170.2	169.2	169.2
25°	166.3	165.4	165.4	165.4	165.4	165.4	164.4	164.4	165.4	164.4	163.5
27.5°	161.5	160.6	160.6	160.6	160.6	160.6	159.6	159.6	159.6	158.7	158.7
30°	155.8	155.8	154.8	154.8	154.8	154.8	153.8	153.8	154.8	153.8	152.9
32.5°	151.0	150.0	150.0	150.0	150.0	149.0	148.1	148.1	148.1	148.1	147.1
35°	144.2	144.2	144.2	144.2	143.3	143.3	142.3	143.3	142.3	141.3	141.3
37.5°	138.5	138.5	137.5	137.5	137.5	137.5	136.5	137.5	136.5	135.6	134.6
40°	132.7	131.7	131.7	131.7	131.7	130.8	130.8	130.8	129.8	128.8	128.8
42.5°	126.0	126.0	125.0	126.0	125.0	125.0	124.0	125.0	124.0	123.1	122.1
45°	119.2	119.2	119.2	119.2	119.2	118.3	118.3	118.3	117.3	116.3	115.4
47.5°	112.5	112.5	112.5	113.5	112.5	111.5	111.5	111.5	110.6	109.6	108.7
50°	105.8	105.8	105.8	105.8	105.8	104.8	104.8	103.8	103.8	102.9	101.9
52.5°	99.0	99.0	99.0	100.0	99.0	98.1	98.1	98.1	97.1	96.2	95.2
55°	92.3	92.3	93.3	92.3	92.3	92.3	91.3	91.3	90.4	89.4	88.5
57.5°	85.6	85.6	85.6	85.6	85.6	84.6	84.6	84.6	83.7	82.7	81.7
60°	78.8	78.8	78.8	78.8	77.9	77.9	77.9	76.9	76.0	75.0	75.0
62.5°	71.2	72.1	72.1	71.2	71.2	71.2	70.2	70.2	69.2	69.2	68.3
65°	64.4	65.4	64.4	64.4	64.4	64.4	63.5	63.5	62.5	61.5	61.5
67.5°	57.7	57.7	57.7	57.7	57.7	56.7	56.7	55.8	55.8	54.8	54.8
70°	51.0	51.0	50.0	50.0	51.0	50.0	49.0	49.0	49.0	48.1	48.1
72.5°	44.2	44.2	43.3	43.3	43.3	43.3	42.3	42.3	41.3	41.3	40.4
75°	36.5	36.5	36.5	36.5	36.5	35.6	35.6	35.6	34.6	34.6	33.7
77.5°	29.8	29.8	29.8	29.8	29.8	28.8	28.8	28.8	28.8	27.9	27.9
80°	23.1	23.1	23.1	23.1	23.1	22.1	22.1	22.1	21.2	21.2	20.2
82.5°	16.3	16.3	16.3	16.3	16.3	15.4	15.4	15.4	14.4	14.4	14.4
85°	10.6	9.6	9.6	9.6	9.6	9.6	8.7	8.7	8.7	8.7	7.7
87.5°	4.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.9	3.8
90°	1.0	1.9	1.9	2.9	2.9	2.9	2.9	3.8	3.8	3.8	3.8
92.5°	7.7	9.6	9.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
95°	12.5	14.4	18.3	19.2	20.2	22.1	22.1	22.1	21.2	21.2	21.2
97.5°	18.3	21.2	21.2	23.1	24.0	27.9	30.8	31.7	33.7	33.7	33.7
100°	27.9	26.9	29.8	31.7	31.7	31.7	33.7	37.5	39.4	41.3	42.3
102.5°	40.4	36.5	36.5	37.5	39.4	43.3	40.4	41.3	43.3	45.2	48.1
105°	53.8	50.0	47.1	46.2	47.1	50.0	52.9	51.9	50.0	51.0	52.9
107.5°	71.2	64.4	58.7	57.7	57.7	57.7	60.6	63.5	65.4	63.5	61.5
110°	91.3	80.8	75.0	70.2	69.2	68.3	68.3	70.2	74.0	76.9	77.9



TEST NUMBER: P303182

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	113.5	101.0	91.3	86.5	83.7	79.8	78.8	78.8	80.8	84.6	87.5
115°	136.5	123.1	110.6	105.8	101.0	94.2	91.3	89.4	89.4	91.3	94.2
117.5°	160.6	146.2	132.7	125.0	121.2	111.5	104.8	101.0	100.0	100.0	101.9
120°	184.6	171.2	155.8	147.1	142.3	131.7	122.1	114.4	111.5	110.6	109.6
122.5°	208.7	194.2	179.8	171.2	165.4	152.9	143.3	131.7	126.9	122.1	121.2
125°	232.7	218.3	202.9	196.2	188.5	175.0	164.4	152.9	144.2	137.5	132.7
127.5°	257.7	241.3	226.0	221.2	212.5	199.0	187.5	176.0	166.3	156.7	150.0
130°	279.8	266.3	251.9	244.2	236.5	223.1	209.6	198.1	189.4	179.8	171.2
132.5°	301.9	288.5	275.0	270.2	262.5	247.1	234.6	221.2	211.5	201.9	194.2
135°	322.1	308.7	296.2	291.3	284.6	271.2	259.6	246.2	233.7	225.0	217.3
137.5°	341.3	328.8	316.3	311.5	305.8	293.3	282.7	271.2	259.6	251.0	239.4
140°	360.6	348.1	336.5	331.7	326.0	314.4	302.9	294.2	282.7	274.0	265.4
142.5°	378.8	366.3	354.8	350.0	346.2	334.6	324.0	316.3	306.7	297.1	289.4
145°	396.2	382.7	373.1	368.3	364.4	353.8	344.2	337.5	329.8	320.2	312.5
147.5°	411.5	399.0	389.4	386.5	382.7	374.0	364.4	356.7	351.0	342.3	334.6
150°	426.0	414.4	405.8	402.9	400.0	390.4	381.7	375.0	370.2	362.5	354.8
152.5°	441.3	429.8	422.1	419.2	415.4	407.7	400.0	392.3	388.5	382.7	375.0
155°	453.8	444.2	436.5	433.7	429.8	424.0	415.4	409.6	406.7	400.0	393.3
157.5°	466.3	456.7	450.0	447.1	444.2	438.5	430.8	425.0	423.1	417.3	411.5
160°	476.9	468.3	461.5	458.7	456.7	451.9	445.2	439.4	438.5	434.6	428.8
162.5°	486.5	477.9	473.1	470.2	468.3	465.4	458.7	452.9	451.9	449.0	444.2
165°	494.2	486.5	482.7	480.8	479.8	476.9	471.2	465.4	465.4	463.5	457.7
167.5°	502.9	495.2	491.3	490.4	489.4	486.5	482.7	477.9	477.9	476.0	471.2
170°	509.6	502.9	500.0	499.0	498.1	496.2	493.3	488.5	489.4	487.5	483.7
172.5°	514.4	509.6	507.7	505.8	505.8	504.8	502.9	499.0	500.0	499.0	495.2
175°	518.3	513.5	513.5	511.5	512.5	512.5	509.6	506.7	508.7	509.6	505.8
177.5°	521.2	517.3	517.3	517.3	518.3	518.3	517.3	514.4	516.3	518.3	514.4
180°	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1



TEST NUMBER: P303182

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3
2.5°	193.3	193.3	193.3	192.3	193.3	191.3	190.4	190.4
5°	191.3	191.3	191.3	191.3	191.3	191.3	190.4	190.4
7.5°	190.4	190.4	189.4	189.4	190.4	190.4	189.4	189.4
10°	187.5	187.5	187.5	187.5	188.5	187.5	187.5	187.5
12.5°	185.6	184.6	184.6	184.6	185.6	184.6	184.6	184.6
15°	181.7	181.7	181.7	181.7	182.7	181.7	181.7	181.7
17.5°	177.9	177.9	177.9	177.9	178.8	177.9	176.9	176.9
20°	174.0	173.1	173.1	173.1	173.1	173.1	172.1	172.1
22.5°	168.3	168.3	168.3	168.3	168.3	167.3	167.3	167.3
25°	163.5	162.5	162.5	163.5	162.5	162.5	161.5	161.5
27.5°	157.7	157.7	157.7	157.7	157.7	156.7	155.8	155.8
30°	152.9	151.9	151.9	151.9	151.9	151.0	150.0	150.0
32.5°	147.1	146.2	146.2	146.2	146.2	144.2	144.2	144.2
35°	140.4	140.4	140.4	140.4	139.4	138.5	138.5	137.5
37.5°	134.6	133.7	133.7	133.7	132.7	132.7	131.7	131.7
40°	127.9	127.9	127.9	127.9	126.9	126.0	125.0	125.0
42.5°	121.2	121.2	121.2	121.2	120.2	119.2	119.2	119.2
45°	115.4	114.4	114.4	114.4	113.5	113.5	112.5	112.5
47.5°	108.7	108.7	107.7	107.7	107.7	106.7	105.8	105.8
50°	101.9	101.9	101.9	101.0	100.0	100.0	100.0	99.0
52.5°	95.2	95.2	95.2	94.2	94.2	93.3	93.3	93.3
55°	88.5	88.5	88.5	87.5	87.5	86.5	86.5	86.5
57.5°	81.7	81.7	81.7	80.8	80.8	79.8	79.8	79.8
60°	75.0	75.0	74.0	74.0	74.0	73.1	73.1	73.1
62.5°	68.3	67.3	67.3	67.3	67.3	66.3	66.3	66.3
65°	61.5	60.6	60.6	60.6	60.6	59.6	59.6	59.6
67.5°	54.8	53.8	53.8	53.8	53.8	52.9	52.9	52.9
70°	47.1	47.1	47.1	47.1	47.1	46.2	46.2	46.2
72.5°	40.4	40.4	40.4	40.4	39.4	39.4	39.4	39.4
75°	33.7	33.7	33.7	33.7	32.7	32.7	32.7	32.7
77.5°	26.9	26.9	26.9	26.9	26.9	26.0	26.0	26.9
80°	20.2	20.2	20.2	20.2	20.2	19.2	19.2	19.2
82.5°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	12.5
85°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
87.5°	2.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8
90°	3.8	4.8	4.8	4.8	4.8	5.8	5.8	5.8
92.5°	10.6	11.5	11.5	10.6	11.5	11.5	11.5	11.5
95°	20.2	21.2	21.2	20.2	21.2	21.2	21.2	21.2
97.5°	33.7	33.7	33.7	32.7	33.7	32.7	32.7	32.7
100°	43.3	43.3	44.2	44.2	45.2	45.2	44.2	45.2
102.5°	49.0	50.0	51.0	51.0	51.9	51.9	52.9	52.9
105°	53.8	54.8	55.8	55.8	57.7	58.7	59.6	59.6
107.5°	61.5	61.5	62.5	62.5	63.5	63.5	63.5	64.4
110°	76.9	74.0	73.1	73.1	72.1	72.1	72.1	72.1



TEST NUMBER: P303182

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	89.4	89.4	90.4	90.4	90.4	89.4	87.5	88.5
115°	97.1	99.0	99.0	100.0	100.0	101.0	101.0	101.9
117.5°	102.9	104.8	105.8	106.7	108.7	109.6	109.6	109.6
120°	110.6	111.5	112.5	112.5	113.5	114.4	115.4	115.4
122.5°	120.2	119.2	120.2	120.2	120.2	121.2	121.2	121.2
125°	130.8	129.8	128.8	128.8	127.9	127.9	127.9	127.9
127.5°	145.2	142.3	141.3	140.4	138.5	138.5	137.5	138.5
130°	164.4	159.6	157.7	155.8	151.9	151.9	150.0	150.0
132.5°	186.5	180.8	177.9	176.0	171.2	169.2	167.3	167.3
135°	210.6	204.8	201.0	199.0	193.3	191.3	189.4	187.5
137.5°	233.7	227.9	225.0	224.0	218.3	216.3	212.5	211.5
140°	258.7	252.9	250.0	248.1	241.3	238.5	236.5	235.6
142.5°	282.7	276.0	273.1	272.1	267.3	264.4	261.5	260.6
145°	305.8	299.0	296.2	296.2	290.4	288.5	285.6	283.7
147.5°	328.8	322.1	319.2	319.2	314.4	310.6	308.7	306.7
150°	350.0	344.2	341.3	341.3	336.5	332.7	329.8	328.8
152.5°	369.2	364.4	362.5	362.5	358.7	354.8	352.9	351.9
155°	388.5	384.6	381.7	381.7	378.8	375.0	374.0	373.1
157.5°	407.7	403.8	401.0	401.9	398.1	395.2	393.3	393.3
160°	425.0	422.1	419.2	419.2	417.3	414.4	410.6	411.5
162.5°	442.3	438.5	436.5	436.5	435.6	431.7	427.9	428.8
165°	454.8	452.9	451.9	451.9	451.0	448.1	445.2	445.2
167.5°	468.3	466.3	465.4	465.4	464.4	462.5	459.6	460.6
170°	481.7	479.8	478.8	477.9	477.9	476.0	474.0	474.0
172.5°	494.2	492.3	491.3	491.3	492.3	490.4	487.5	487.5
175°	504.8	503.8	501.9	501.9	501.9	500.0	498.1	498.1
177.5°	514.4	513.5	513.5	512.5	513.5	510.6	507.7	507.7
180°	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1

(END OF REPORT)