

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: P303196

Luminaire Tested: **CTW-F-7525-20L930-UNV-STD-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303196
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-7525-20L930-UNV-STD-8
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
75% UPLIGHT, 25% DOWNLIGHT, 2000 LUMEN PACKAGE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

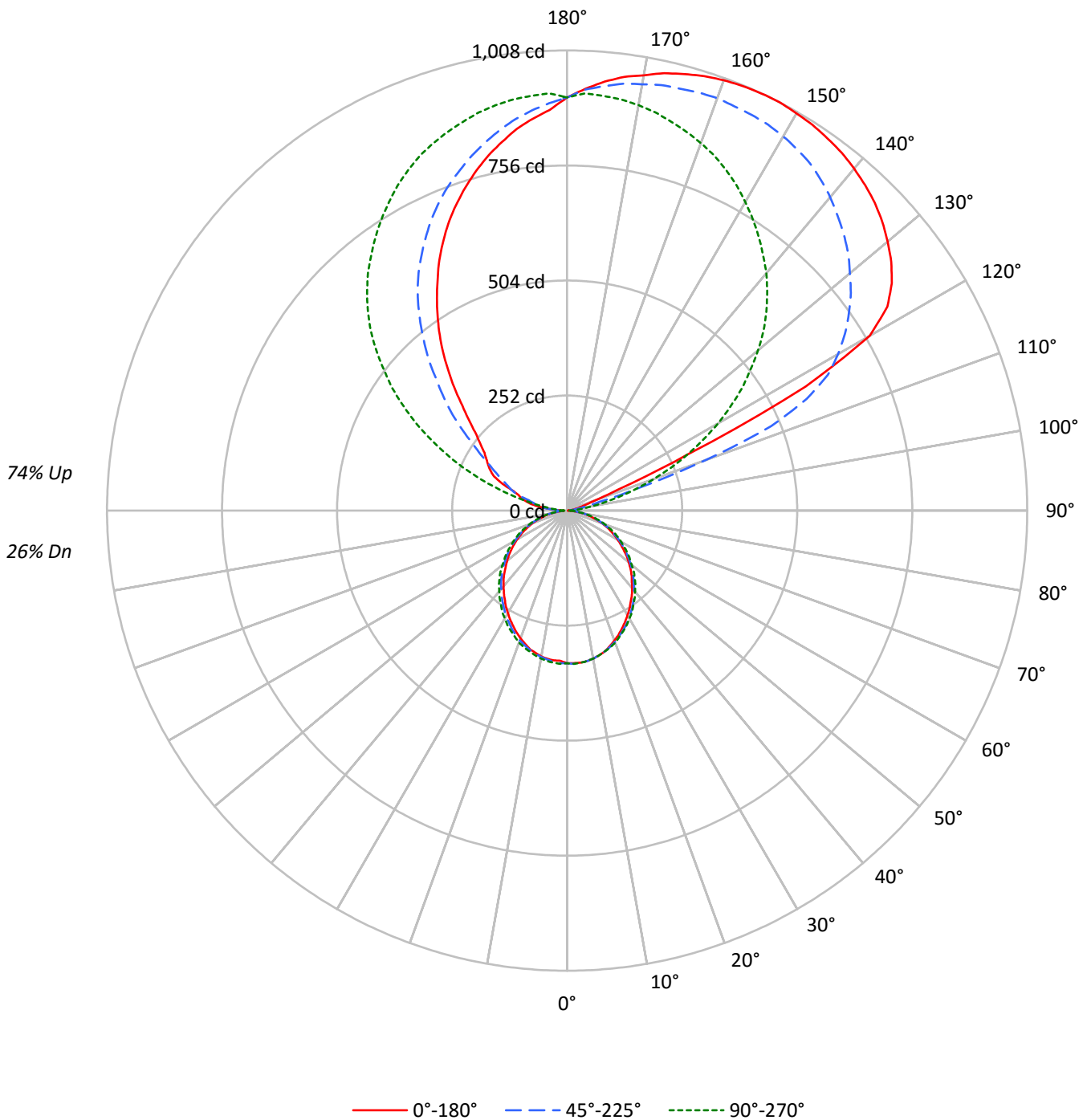
Lumens per Lamp: N/A
Luminaire Lumens: 3452.9 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.32
Luminous Opening: Rectangular (W 8' x L: 0.12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 29.8
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°	3599	3599	3599
5°	3613	3613	3559
10°	3600	3600	3546
15°	3559	3559	3504
20°	3468	3525	3411
25°	3379	3457	3320
30°	3287	3391	3225
35°	3192	3322	3126
40°	3108	3249	3039
45°	3038	3191	2962
50°	2952	3091	2869
55°	2841	3029	2809
60°	2758	2936	2721
65°	2669	2881	2626
70°	2565	2776	2511
75°	2354	2628	2354
80°	2064	2473	2064
85°	1433	2260	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	0.9
10°-20°	89.3	2.6
20°-30°	131.8	3.8
30°-40°	154.7	4.5
40°-50°	156.8	4.5
50°-60°	139.8	4.0
60°-70°	107.2	3.1
70°-80°	63.6	1.8
80°-90°	17.9	0.5
90°-100°	27.1	0.8
100°-110°	110.4	3.2
110°-120°	309.3	9.0
120°-130°	451.0	13.1
130°-140°	485.8	14.1
140°-150°	462.8	13.4
150°-160°	379.8	11.0
160°-170°	248.0	7.2
170°-180°	86.0	2.5
0°-30°	252.7	7.3
0°-40°	407.3	11.8
0°-60°	703.9	20.4
0°-90°	892.6	25.9
90°-120°	446.8	12.9
90°-150°	1846.4	53.5
90°-180°	2560.0	74.1
0°-180°	3452.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	334	334	334	334	334	
5°	334	334	334	333	329	32
15°	319	319	319	316	314	90
25°	284	289	291	286	280	131
35°	243	251	253	246	238	152
45°	200	205	210	203	195	154
55°	151	156	161	156	150	136
65°	105	108	113	108	103	104
75°	57	60	63	60	57	60
85°	12	15	18	15	13	14
90°	2	2	2	7	10	1
95°	7	8	20	37	37	7
105°	30	73	120	86	103	35
115°	293	579	291	155	176	346
125°	868	754	467	250	221	769
135°	953	857	617	404	324	736
145°	995	928	732	571	491	624
155°	1008	956	823	704	645	466
165°	990	956	882	805	770	281
175°	943	933	912	880	862	91
180°	905	905	905	905	905	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4
2.5°	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	336.0	336.0
5°	334.4	334.4	334.4	334.4	334.4	334.4	334.4	332.7	334.4	334.4	334.4
7.5°	332.7	332.7	332.7	332.7	332.7	332.7	331.0	331.0	331.0	332.7	332.7
10°	329.4	329.4	329.4	327.7	327.7	329.4	327.7	327.7	329.4	329.4	329.4
12.5°	324.4	324.4	324.4	324.4	324.4	324.4	324.4	322.7	324.4	326.0	324.4
15°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	317.7	319.4	321.0	319.4
17.5°	311.1	311.1	311.1	311.1	312.7	312.7	312.7	311.1	312.7	314.4	312.7
20°	302.8	302.8	302.8	304.4	304.4	304.4	304.4	304.4	304.4	306.1	306.1
22.5°	294.4	294.4	294.4	294.4	296.1	296.1	296.1	294.4	296.1	297.8	297.8
25°	284.5	284.5	284.5	284.5	286.1	286.1	286.1	286.1	287.8	289.4	289.4
27.5°	274.5	274.5	274.5	276.1	277.8	277.8	277.8	277.8	277.8	279.5	281.1
30°	264.5	264.5	264.5	266.2	266.2	267.8	267.8	267.8	267.8	269.5	271.1
32.5°	254.5	254.5	254.5	256.2	256.2	256.2	257.8	257.8	257.8	259.5	261.2
35°	242.9	244.5	244.5	244.5	246.2	246.2	246.2	246.2	247.9	249.5	251.2
37.5°	232.9	232.9	232.9	232.9	234.5	234.5	234.5	236.2	236.2	237.9	239.5
40°	221.2	221.2	221.2	222.9	222.9	222.9	224.6	224.6	226.2	227.9	227.9
42.5°	209.6	209.6	209.6	211.3	211.3	211.3	212.9	214.6	214.6	216.3	216.3
45°	199.6	198.0	199.6	199.6	199.6	199.6	201.3	201.3	202.9	204.6	204.6
47.5°	188.0	186.3	188.0	188.0	188.0	188.0	189.6	189.6	191.3	191.3	193.0
50°	176.3	174.7	176.3	176.3	176.3	176.3	178.0	178.0	179.7	179.7	181.3
52.5°	164.7	164.7	164.7	164.7	164.7	164.7	164.7	166.3	168.0	168.0	169.7
55°	151.4	151.4	153.0	153.0	153.0	153.0	153.0	154.7	154.7	156.4	156.4
57.5°	139.7	139.7	139.7	141.4	141.4	141.4	141.4	143.1	143.1	144.7	144.7
60°	128.1	128.1	128.1	128.1	129.8	129.8	129.8	129.8	131.4	133.1	133.1
62.5°	116.4	116.4	116.4	116.4	118.1	118.1	116.4	118.1	118.1	119.8	119.8
65°	104.8	104.8	104.8	104.8	104.8	104.8	104.8	106.5	106.5	108.1	108.1
67.5°	93.2	91.5	93.2	93.2	93.2	93.2	93.2	94.8	94.8	94.8	96.5
70°	81.5	79.8	79.8	79.8	81.5	81.5	81.5	83.2	81.5	83.2	83.2
72.5°	68.2	68.2	68.2	68.2	68.2	69.9	69.9	69.9	69.9	71.5	71.5
75°	56.6	56.6	56.6	56.6	56.6	56.6	58.2	58.2	58.2	59.9	59.9
77.5°	44.9	44.9	44.9	44.9	44.9	44.9	46.6	46.6	46.6	46.6	48.2
80°	33.3	33.3	33.3	33.3	33.3	33.3	34.9	34.9	34.9	34.9	36.6
82.5°	21.6	21.6	21.6	23.3	21.6	23.3	23.3	23.3	23.3	23.3	25.0
85°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	13.3	13.3	15.0
87.5°	3.3	1.7	1.7	3.3	1.7	3.3	3.3	3.3	3.3	3.3	3.3
90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
92.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
95°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.3	8.3
97.5°	10.0	10.0	10.0	10.0	10.0	11.6	11.6	11.6	11.6	13.3	15.0
100°	15.0	15.0	15.0	15.0	16.6	16.6	16.6	18.3	18.3	21.6	23.3
102.5°	21.6	21.6	21.6	21.6	23.3	23.3	25.0	26.6	28.3	33.3	41.6
105°	29.9	29.9	29.9	31.6	33.3	33.3	34.9	38.3	44.9	54.9	73.2
107.5°	41.6	41.6	43.3	44.9	48.2	49.9	53.2	64.9	79.8	106.5	159.7
110°	63.2	63.2	66.5	71.5	81.5	88.2	99.8	131.4	178.0	246.2	319.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	119.8	121.4	134.7	144.7	178.0	202.9	237.9	307.7	379.3	440.8	484.1
115°	292.8	297.8	331.0	349.3	424.2	439.2	477.4	544.0	575.6	583.9	578.9
117.5°	588.9	590.5	613.8	628.8	657.1	667.0	670.4	682.0	675.4	662.1	643.8
120°	765.2	761.9	765.2	760.2	761.9	758.5	753.5	743.6	726.9	708.6	685.3
122.5°	831.7	830.1	826.7	816.8	811.8	805.1	796.8	785.2	768.5	745.2	721.9
125°	868.3	866.7	863.3	853.4	845.0	838.4	831.7	818.4	798.5	778.5	753.5
127.5°	894.9	893.3	888.3	881.6	871.7	865.0	858.3	845.0	825.1	805.1	783.5
130°	916.6	914.9	909.9	904.9	894.9	890.0	883.3	870.0	850.0	830.1	808.4
132.5°	936.5	934.9	931.5	926.5	916.6	909.9	904.9	893.3	871.7	851.7	835.1
135°	953.2	949.8	949.8	943.2	933.2	928.2	923.2	911.6	891.6	873.3	856.7
137.5°	966.5	964.8	961.5	956.5	948.2	943.2	938.2	926.5	909.9	891.6	876.6
140°	978.1	976.5	974.8	969.8	961.5	956.5	953.2	939.9	924.9	909.9	896.6
142.5°	988.1	986.4	983.1	979.8	971.5	968.1	964.8	953.2	936.5	924.9	913.2
145°	994.8	994.8	991.4	988.1	981.4	978.1	974.8	961.5	948.2	938.2	928.2
147.5°	1001.4	1001.4	996.4	994.8	989.8	986.4	983.1	969.8	956.5	948.2	938.2
150°	1004.7	1004.7	1001.4	998.1	993.1	991.4	988.1	976.5	964.8	958.2	946.5
152.5°	1008.1	1008.1	1004.7	1001.4	996.4	994.8	989.8	981.4	969.8	963.1	953.2
155°	1008.1	1009.7	1004.7	1001.4	998.1	996.4	991.4	981.4	973.1	968.1	956.5
157.5°	1006.4	1006.4	1004.7	1001.4	996.4	994.8	989.8	979.8	973.1	971.5	958.2
160°	1003.1	1003.1	1001.4	996.4	994.8	991.4	986.4	979.8	974.8	971.5	961.5
162.5°	998.1	996.4	994.8	991.4	989.8	988.1	984.8	976.5	971.5	969.8	959.8
165°	989.8	988.1	986.4	984.8	983.1	981.4	978.1	969.8	968.1	966.5	956.5
167.5°	981.4	978.1	976.5	973.1	973.1	969.8	968.1	963.1	961.5	961.5	954.8
170°	968.1	966.5	964.8	963.1	963.1	961.5	959.8	953.2	953.2	954.8	948.2
172.5°	958.2	954.8	954.8	953.2	953.2	951.5	949.8	944.8	944.8	946.5	943.2
175°	943.2	941.5	939.9	938.2	938.2	938.2	936.5	933.2	934.9	936.5	933.2
177.5°	924.9	919.9	921.6	921.6	924.9	923.2	923.2	919.9	921.6	924.9	923.2
180°	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4
2.5°	332.7	332.7	331.0	332.7	332.7	332.7	334.4	334.4	336.0	336.0	336.0
5°	332.7	331.0	331.0	331.0	332.7	332.7	332.7	334.4	334.4	334.4	334.4
7.5°	329.4	329.4	329.4	329.4	329.4	331.0	331.0	331.0	332.7	332.7	331.0
10°	327.7	326.0	326.0	326.0	327.7	327.7	327.7	329.4	329.4	329.4	327.7
12.5°	322.7	322.7	321.0	322.7	322.7	322.7	322.7	324.4	324.4	324.4	324.4
15°	317.7	317.7	316.1	317.7	317.7	317.7	317.7	319.4	321.0	319.4	319.4
17.5°	311.1	311.1	311.1	311.1	311.1	312.7	312.7	314.4	314.4	314.4	312.7
20°	304.4	304.4	304.4	304.4	304.4	304.4	306.1	306.1	307.7	307.7	306.1
22.5°	296.1	296.1	296.1	296.1	297.8	297.8	297.8	299.4	299.4	299.4	297.8
25°	289.4	287.8	287.8	287.8	289.4	289.4	289.4	291.1	291.1	291.1	291.1
27.5°	279.5	279.5	277.8	279.5	279.5	281.1	281.1	282.8	282.8	282.8	281.1
30°	271.1	269.5	269.5	269.5	271.1	271.1	272.8	272.8	274.5	272.8	272.8
32.5°	261.2	261.2	259.5	261.2	261.2	261.2	262.8	262.8	264.5	264.5	262.8
35°	251.2	249.5	249.5	251.2	251.2	251.2	252.8	252.8	254.5	252.8	252.8
37.5°	241.2	239.5	239.5	239.5	239.5	241.2	242.9	242.9	242.9	242.9	242.9
40°	229.6	229.6	229.6	229.6	229.6	229.6	231.2	231.2	232.9	231.2	231.2
42.5°	219.6	217.9	217.9	217.9	217.9	219.6	219.6	221.2	221.2	221.2	219.6
45°	207.9	207.9	207.9	206.3	206.3	207.9	209.6	209.6	209.6	209.6	207.9
47.5°	196.3	194.6	196.3	196.3	194.6	196.3	198.0	198.0	198.0	198.0	196.3
50°	183.0	183.0	183.0	184.6	183.0	184.6	186.3	186.3	186.3	184.6	184.6
52.5°	169.7	171.3	173.0	173.0	171.3	173.0	173.0	173.0	173.0	173.0	173.0
55°	158.0	159.7	159.7	159.7	159.7	161.4	161.4	161.4	161.4	161.4	161.4
57.5°	146.4	146.4	148.0	148.0	148.0	148.0	148.0	149.7	148.0	148.0	148.0
60°	133.1	134.7	136.4	136.4	136.4	136.4	136.4	138.1	136.4	136.4	136.4
62.5°	121.4	121.4	123.1	124.8	123.1	124.8	124.8	124.8	124.8	124.8	124.8
65°	109.8	109.8	111.5	111.5	111.5	111.5	111.5	113.1	111.5	113.1	113.1
67.5°	96.5	98.1	98.1	99.8	99.8	99.8	99.8	101.5	101.5	99.8	99.8
70°	84.8	84.8	86.5	86.5	88.2	88.2	88.2	88.2	88.2	88.2	88.2
72.5°	71.5	73.2	73.2	74.9	74.9	74.9	74.9	76.5	76.5	76.5	76.5
75°	59.9	61.5	61.5	63.2	61.5	63.2	63.2	63.2	64.9	63.2	64.9
77.5°	48.2	49.9	49.9	49.9	51.6	51.6	51.6	51.6	51.6	51.6	51.6
80°	36.6	38.3	38.3	38.3	39.9	39.9	39.9	39.9	39.9	39.9	39.9
82.5°	25.0	26.6	26.6	26.6	26.6	28.3	28.3	28.3	28.3	28.3	28.3
85°	15.0	15.0	15.0	16.6	16.6	16.6	16.6	18.3	18.3	18.3	18.3
87.5°	5.0	5.0	5.0	6.7	6.7	6.7	6.7	6.7	6.7	8.3	8.3
90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
92.5°	5.0	5.0	5.0	5.0	6.7	6.7	10.0	10.0	8.3	8.3	8.3
95°	10.0	10.0	13.3	16.6	20.0	23.3	26.6	26.6	23.3	20.0	18.3
97.5°	16.6	21.6	28.3	38.3	43.3	49.9	54.9	49.9	43.3	36.6	33.3
100°	29.9	39.9	56.6	76.5	84.8	91.5	93.2	83.2	69.9	56.6	51.6
102.5°	56.6	76.5	111.5	138.1	144.7	149.7	141.4	123.1	104.8	84.8	74.9
105°	108.1	153.0	201.3	214.6	217.9	214.6	196.3	169.7	144.7	119.8	104.8
107.5°	221.2	272.8	302.8	296.1	287.8	277.8	251.2	219.6	189.6	158.0	139.7
110°	367.6	389.3	387.6	364.3	347.7	332.7	304.4	269.5	234.5	201.3	178.0



TEST NUMBER: P303196

CATALOG NUMBER: CTW-F-7525-20L930-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	489.1	477.4	454.1	420.9	402.6	384.3	354.3	319.4	281.1	246.2	221.2
115°	562.3	537.3	505.7	475.8	457.5	437.5	402.6	366.0	327.7	291.1	264.5
117.5°	613.8	585.5	555.6	522.3	504.0	485.7	452.5	410.9	372.6	336.0	307.7
120°	655.4	625.5	593.9	563.9	547.3	530.6	495.7	457.5	415.9	380.9	349.3
122.5°	693.7	663.7	635.4	603.8	585.5	570.6	534.0	497.4	460.8	424.2	390.9
125°	728.6	702.0	668.7	638.8	623.8	607.2	572.2	535.6	502.4	467.4	435.8
127.5°	760.2	733.6	703.6	670.4	655.4	640.4	603.8	570.6	540.6	505.7	475.8
130°	788.5	761.9	733.6	702.0	688.7	672.0	638.8	605.5	577.2	545.6	514.0
132.5°	815.1	788.5	760.2	730.3	715.3	700.3	672.0	638.8	612.2	583.9	552.3
135°	838.4	811.8	783.5	753.5	740.2	726.9	698.7	670.4	642.1	617.1	587.2
137.5°	858.3	833.4	805.1	776.8	765.2	751.9	725.3	698.7	673.7	648.8	620.5
140°	876.6	851.7	823.4	796.8	785.2	775.2	748.6	725.3	703.6	678.7	652.1
142.5°	893.3	866.7	840.0	815.1	805.1	795.1	771.8	750.2	730.3	705.3	682.0
145°	906.6	880.0	855.0	831.7	825.1	813.4	791.8	773.5	753.5	731.9	710.3
147.5°	919.9	894.9	870.0	848.4	841.7	831.7	813.4	795.1	776.8	756.9	736.9
150°	928.2	904.9	883.3	865.0	858.3	848.4	830.1	815.1	800.1	780.2	760.2
152.5°	934.9	913.2	893.3	878.3	873.3	865.0	848.4	836.7	820.1	803.5	785.2
155°	939.9	919.9	903.3	890.0	885.0	880.0	863.3	853.4	838.4	823.4	806.8
157.5°	943.2	924.9	909.9	899.9	894.9	890.0	875.0	866.7	855.0	841.7	825.1
160°	944.8	928.2	916.6	908.3	903.3	898.3	888.3	878.3	866.7	856.7	843.4
162.5°	944.8	931.5	919.9	913.2	909.9	906.6	896.6	888.3	880.0	870.0	858.3
165°	944.8	933.2	923.2	918.2	914.9	913.2	903.3	898.3	890.0	881.6	871.7
167.5°	941.5	931.5	924.9	921.6	918.2	916.6	909.9	903.3	898.3	893.3	883.3
170°	938.2	929.9	923.2	921.6	919.9	918.2	913.2	909.9	906.6	901.6	893.3
172.5°	933.2	926.5	921.6	919.9	919.9	918.2	914.9	913.2	911.6	908.3	901.6
175°	924.9	919.9	914.9	916.6	916.6	916.6	913.2	914.9	913.2	911.6	906.6
177.5°	914.9	911.6	909.9	911.6	911.6	911.6	911.6	913.2	914.9	914.9	909.9
180°	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9



TEST NUMBER: P303196

CATALOG NUMBER: CTW-F-7525-20L930-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4
2.5°	332.7	331.0	331.0	331.0	332.7	332.7	332.7	332.7	334.4	334.4	334.4
5°	331.0	329.4	329.4	329.4	331.0	331.0	331.0	331.0	332.7	332.7	332.7
7.5°	329.4	327.7	327.7	327.7	327.7	329.4	329.4	327.7	329.4	331.0	329.4
10°	326.0	324.4	324.4	324.4	324.4	326.0	326.0	324.4	326.0	326.0	326.0
12.5°	321.0	319.4	319.4	319.4	321.0	321.0	321.0	319.4	321.0	322.7	321.0
15°	316.1	314.4	314.4	314.4	314.4	316.1	316.1	314.4	316.1	316.1	314.4
17.5°	311.1	309.4	307.7	307.7	309.4	309.4	309.4	307.7	309.4	309.4	307.7
20°	302.8	301.1	301.1	301.1	302.8	302.8	301.1	301.1	302.8	301.1	301.1
22.5°	296.1	294.4	294.4	294.4	294.4	294.4	294.4	292.8	294.4	292.8	292.8
25°	287.8	286.1	286.1	286.1	286.1	286.1	284.5	284.5	286.1	284.5	282.8
27.5°	279.5	277.8	277.8	277.8	277.8	277.8	276.1	276.1	276.1	274.5	274.5
30°	269.5	269.5	267.8	267.8	267.8	267.8	266.2	266.2	267.8	266.2	264.5
32.5°	261.2	259.5	259.5	259.5	259.5	257.8	256.2	256.2	256.2	256.2	254.5
35°	249.5	249.5	249.5	249.5	247.9	247.9	246.2	247.9	246.2	244.5	244.5
37.5°	239.5	239.5	237.9	237.9	237.9	237.9	236.2	237.9	236.2	234.5	232.9
40°	229.6	227.9	227.9	227.9	227.9	226.2	226.2	226.2	224.6	222.9	222.9
42.5°	217.9	217.9	216.3	217.9	216.3	216.3	214.6	216.3	214.6	212.9	211.3
45°	206.3	206.3	206.3	206.3	206.3	204.6	204.6	204.6	202.9	201.3	199.6
47.5°	194.6	194.6	194.6	196.3	194.6	193.0	193.0	193.0	191.3	189.6	188.0
50°	183.0	183.0	183.0	183.0	183.0	181.3	181.3	179.7	179.7	178.0	176.3
52.5°	171.3	171.3	171.3	173.0	171.3	169.7	169.7	169.7	168.0	166.3	164.7
55°	159.7	159.7	161.4	159.7	159.7	159.7	158.0	158.0	156.4	154.7	153.0
57.5°	148.0	148.0	148.0	148.0	148.0	146.4	146.4	146.4	144.7	143.1	141.4
60°	136.4	136.4	136.4	136.4	134.7	134.7	134.7	133.1	131.4	129.8	129.8
62.5°	123.1	124.8	124.8	123.1	123.1	123.1	121.4	121.4	119.8	119.8	118.1
65°	111.5	113.1	111.5	111.5	111.5	111.5	109.8	109.8	108.1	106.5	106.5
67.5°	99.8	99.8	99.8	99.8	99.8	98.1	98.1	96.5	96.5	94.8	94.8
70°	88.2	88.2	86.5	86.5	88.2	86.5	84.8	84.8	84.8	83.2	83.2
72.5°	76.5	76.5	74.9	74.9	74.9	74.9	73.2	73.2	71.5	71.5	69.9
75°	63.2	63.2	63.2	63.2	63.2	61.5	61.5	61.5	59.9	59.9	58.2
77.5°	51.6	51.6	51.6	51.6	51.6	49.9	49.9	49.9	49.9	48.2	48.2
80°	39.9	39.9	39.9	39.9	39.9	38.3	38.3	38.3	36.6	36.6	34.9
82.5°	28.3	28.3	28.3	28.3	28.3	26.6	26.6	26.6	25.0	25.0	25.0
85°	18.3	16.6	16.6	16.6	16.6	16.6	15.0	15.0	15.0	15.0	13.3
87.5°	8.3	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	5.0	6.7
90°	1.7	3.3	3.3	5.0	5.0	5.0	5.0	6.7	6.7	6.7	6.7
92.5°	13.3	16.6	16.6	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
95°	21.6	25.0	31.6	33.3	34.9	38.3	38.3	38.3	36.6	36.6	36.6
97.5°	31.6	36.6	36.6	39.9	41.6	48.2	53.2	54.9	58.2	58.2	58.2
100°	48.2	46.6	51.6	54.9	54.9	54.9	58.2	64.9	68.2	71.5	73.2
102.5°	69.9	63.2	63.2	64.9	68.2	74.9	69.9	71.5	74.9	78.2	83.2
105°	93.2	86.5	81.5	79.8	81.5	86.5	91.5	89.8	86.5	88.2	91.5
107.5°	123.1	111.5	101.5	99.8	99.8	99.8	104.8	109.8	113.1	109.8	106.5
110°	158.0	139.7	129.8	121.4	119.8	118.1	118.1	121.4	128.1	133.1	134.7



TEST NUMBER: P303196

CATALOG NUMBER: CTW-F-7525-20L930-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	196.3	174.7	158.0	149.7	144.7	138.1	136.4	136.4	139.7	146.4	151.4
115°	236.2	212.9	191.3	183.0	174.7	163.0	158.0	154.7	154.7	158.0	163.0
117.5°	277.8	252.8	229.6	216.3	209.6	193.0	181.3	174.7	173.0	173.0	176.3
120°	319.4	296.1	269.5	254.5	246.2	227.9	211.3	198.0	193.0	191.3	189.6
122.5°	361.0	336.0	311.1	296.1	286.1	264.5	247.9	227.9	219.6	211.3	209.6
125°	402.6	377.6	351.0	339.3	326.0	302.8	284.5	264.5	249.5	237.9	229.6
127.5°	445.8	417.5	390.9	382.6	367.6	344.3	324.4	304.4	287.8	271.1	259.5
130°	484.1	460.8	435.8	422.5	409.2	385.9	362.6	342.7	327.7	311.1	296.1
132.5°	522.3	499.0	475.8	467.4	454.1	427.5	405.9	382.6	366.0	349.3	336.0
135°	557.3	534.0	512.3	504.0	492.4	469.1	449.1	425.8	404.2	389.3	375.9
137.5°	590.5	568.9	547.3	539.0	529.0	507.4	489.1	469.1	449.1	434.2	414.2
140°	623.8	602.2	582.2	573.9	563.9	544.0	524.0	509.0	489.1	474.1	459.1
142.5°	655.4	633.8	613.8	605.5	598.8	578.9	560.6	547.3	530.6	514.0	500.7
145°	685.3	662.1	645.4	637.1	630.5	612.2	595.5	583.9	570.6	553.9	540.6
147.5°	712.0	690.3	673.7	668.7	662.1	647.1	630.5	617.1	607.2	592.2	578.9
150°	736.9	717.0	702.0	697.0	692.0	675.4	660.4	648.8	640.4	627.1	613.8
152.5°	763.5	743.6	730.3	725.3	718.6	705.3	692.0	678.7	672.0	662.1	648.8
155°	785.2	768.5	755.2	750.2	743.6	733.6	718.6	708.6	703.6	692.0	680.4
157.5°	806.8	790.1	778.5	773.5	768.5	758.5	745.2	735.3	731.9	721.9	712.0
160°	825.1	810.1	798.5	793.5	790.1	781.8	770.2	760.2	758.5	751.9	741.9
162.5°	841.7	826.7	818.4	813.4	810.1	805.1	793.5	783.5	781.8	776.8	768.5
165°	855.0	841.7	835.1	831.7	830.1	825.1	815.1	805.1	805.1	801.8	791.8
167.5°	870.0	856.7	850.0	848.4	846.7	841.7	835.1	826.7	826.7	823.4	815.1
170°	881.6	870.0	865.0	863.3	861.7	858.3	853.4	845.0	846.7	843.4	836.7
172.5°	890.0	881.6	878.3	875.0	875.0	873.3	870.0	863.3	865.0	863.3	856.7
175°	896.6	888.3	888.3	885.0	886.6	886.6	881.6	876.6	880.0	881.6	875.0
177.5°	901.6	894.9	894.9	894.9	896.6	896.6	894.9	890.0	893.3	896.6	890.0
180°	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9



TEST NUMBER: P303196

CATALOG NUMBER: CTW-F-7525-20L930-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4
2.5°	334.4	334.4	334.4	332.7	334.4	331.0	329.4	329.4
5°	331.0	331.0	331.0	331.0	331.0	331.0	329.4	329.4
7.5°	329.4	329.4	327.7	327.7	329.4	329.4	327.7	327.7
10°	324.4	324.4	324.4	324.4	326.0	324.4	324.4	324.4
12.5°	321.0	319.4	319.4	319.4	321.0	319.4	319.4	319.4
15°	314.4	314.4	314.4	314.4	316.1	314.4	314.4	314.4
17.5°	307.7	307.7	307.7	307.7	309.4	307.7	306.1	306.1
20°	301.1	299.4	299.4	299.4	299.4	299.4	297.8	297.8
22.5°	291.1	291.1	291.1	291.1	291.1	289.4	289.4	289.4
25°	282.8	281.1	281.1	282.8	281.1	281.1	279.5	279.5
27.5°	272.8	272.8	272.8	272.8	272.8	271.1	269.5	269.5
30°	264.5	262.8	262.8	262.8	262.8	261.2	259.5	259.5
32.5°	254.5	252.8	252.8	252.8	252.8	249.5	249.5	249.5
35°	242.9	242.9	242.9	242.9	241.2	239.5	239.5	237.9
37.5°	232.9	231.2	231.2	231.2	229.6	229.6	227.9	227.9
40°	221.2	221.2	221.2	221.2	219.6	217.9	216.3	216.3
42.5°	209.6	209.6	209.6	209.6	207.9	206.3	206.3	206.3
45°	199.6	198.0	198.0	198.0	196.3	196.3	194.6	194.6
47.5°	188.0	188.0	186.3	186.3	186.3	184.6	183.0	183.0
50°	176.3	176.3	176.3	174.7	173.0	173.0	173.0	171.3
52.5°	164.7	164.7	164.7	163.0	163.0	161.4	161.4	161.4
55°	153.0	153.0	153.0	151.4	151.4	149.7	149.7	149.7
57.5°	141.4	141.4	141.4	139.7	139.7	138.1	138.1	138.1
60°	129.8	129.8	128.1	128.1	128.1	126.4	126.4	126.4
62.5°	118.1	116.4	116.4	116.4	116.4	114.8	114.8	114.8
65°	106.5	104.8	104.8	104.8	104.8	103.1	103.1	103.1
67.5°	94.8	93.2	93.2	93.2	93.2	91.5	91.5	91.5
70°	81.5	81.5	81.5	81.5	81.5	79.8	79.8	79.8
72.5°	69.9	69.9	69.9	69.9	68.2	68.2	68.2	68.2
75°	58.2	58.2	58.2	58.2	56.6	56.6	56.6	56.6
77.5°	46.6	46.6	46.6	46.6	46.6	44.9	44.9	46.6
80°	34.9	34.9	34.9	34.9	34.9	33.3	33.3	33.3
82.5°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	21.6
85°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
87.5°	5.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7
90°	6.7	8.3	8.3	8.3	8.3	10.0	10.0	10.0
92.5°	18.3	20.0	20.0	18.3	20.0	20.0	20.0	20.0
95°	34.9	36.6	36.6	34.9	36.6	36.6	36.6	36.6
97.5°	58.2	58.2	58.2	56.6	58.2	56.6	56.6	56.6
100°	74.9	74.9	76.5	76.5	78.2	78.2	76.5	78.2
102.5°	84.8	86.5	88.2	88.2	89.8	89.8	91.5	91.5
105°	93.2	94.8	96.5	96.5	99.8	101.5	103.1	103.1
107.5°	106.5	106.5	108.1	108.1	109.8	109.8	109.8	111.5
110°	133.1	128.1	126.4	126.4	124.8	124.8	124.8	124.8



TEST NUMBER: P303196

CATALOG NUMBER: CTW-F-7525-20L930-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	154.7	154.7	156.4	156.4	156.4	154.7	151.4	153.0
115°	168.0	171.3	171.3	173.0	173.0	174.7	174.7	176.3
117.5°	178.0	181.3	183.0	184.6	188.0	189.6	189.6	189.6
120°	191.3	193.0	194.6	194.6	196.3	198.0	199.6	199.6
122.5°	207.9	206.3	207.9	207.9	207.9	209.6	209.6	209.6
125°	226.2	224.6	222.9	222.9	221.2	221.2	221.2	221.2
127.5°	251.2	246.2	244.5	242.9	239.5	239.5	237.9	239.5
130°	284.5	276.1	272.8	269.5	262.8	262.8	259.5	259.5
132.5°	322.7	312.7	307.7	304.4	296.1	292.8	289.4	289.4
135°	364.3	354.3	347.7	344.3	334.4	331.0	327.7	324.4
137.5°	404.2	394.2	389.3	387.6	377.6	374.3	367.6	366.0
140°	447.5	437.5	432.5	429.2	417.5	412.5	409.2	407.5
142.5°	489.1	477.4	472.4	470.8	462.4	457.5	452.5	450.8
145°	529.0	517.3	512.3	512.3	502.4	499.0	494.0	490.7
147.5°	568.9	557.3	552.3	552.3	544.0	537.3	534.0	530.6
150°	605.5	595.5	590.5	590.5	582.2	575.6	570.6	568.9
152.5°	638.8	630.5	627.1	627.1	620.5	613.8	610.5	608.8
155°	672.0	665.4	660.4	660.4	655.4	648.8	647.1	645.4
157.5°	705.3	698.7	693.7	695.3	688.7	683.7	680.4	680.4
160°	735.3	730.3	725.3	725.3	721.9	717.0	710.3	712.0
162.5°	765.2	758.5	755.2	755.2	753.5	746.9	740.2	741.9
165°	786.8	783.5	781.8	781.8	780.2	775.2	770.2	770.2
167.5°	810.1	806.8	805.1	805.1	803.5	800.1	795.1	796.8
170°	833.4	830.1	828.4	826.7	826.7	823.4	820.1	820.1
172.5°	855.0	851.7	850.0	850.0	851.7	848.4	843.4	843.4
175°	873.3	871.7	868.3	868.3	868.3	865.0	861.7	861.7
177.5°	890.0	888.3	888.3	886.6	888.3	883.3	878.3	878.3
180°	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9

(END OF REPORT)