

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: P303193

Luminaire Tested: **CTW-F-7525-20L830-UNV-STD-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303193
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-8
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

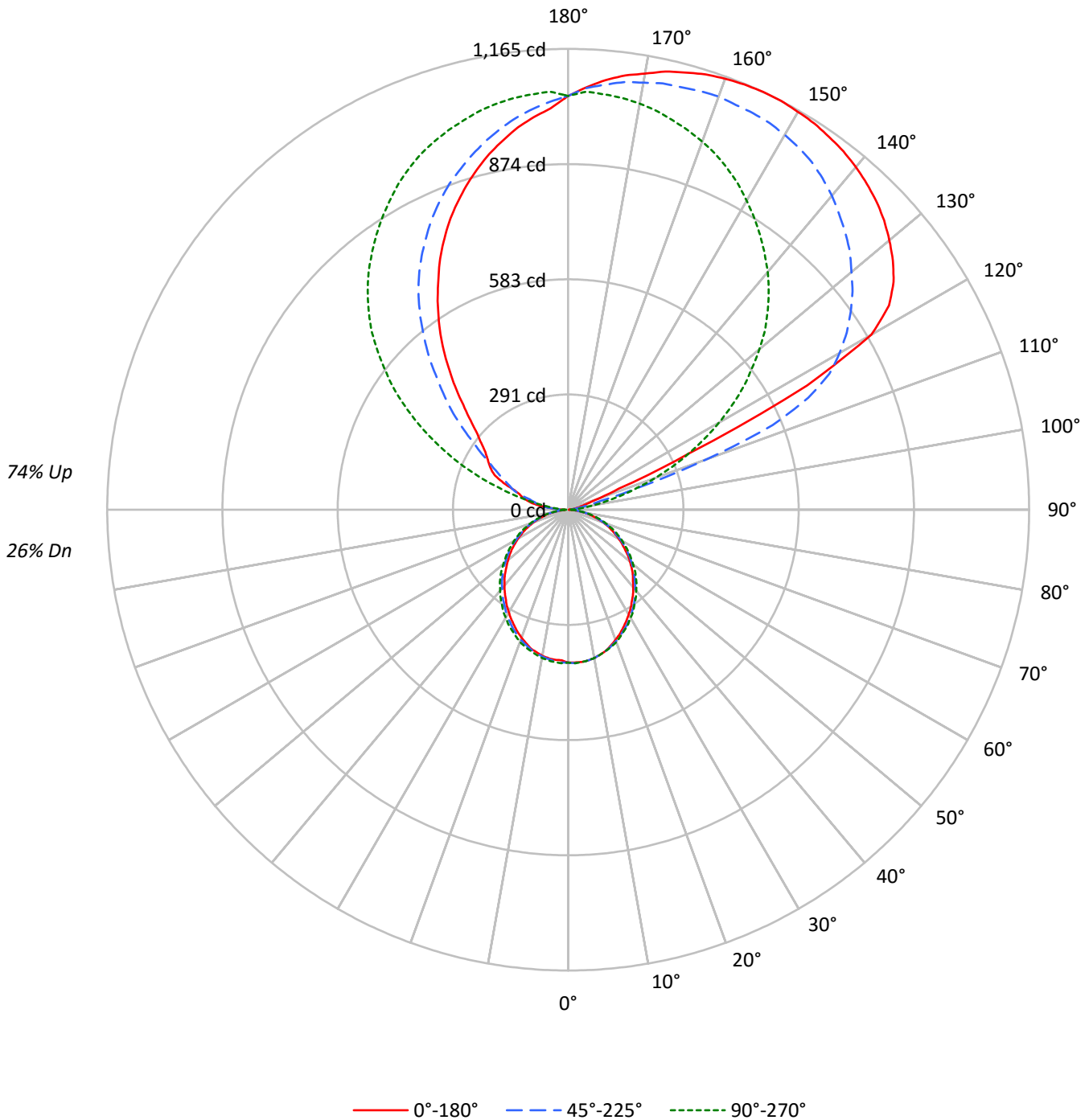
Lumens per Lamp: N/A
Luminaire Lumens: 3991.7 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.32
Luminous Opening: Rectangular (W 8' x L: 0.12' x H: 0')
CIE Type: Semi-Indirect

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°	4160	4160	4160
5°	4176	4176	4115
10°	4162	4162	4099
15°	4114	4114	4051
20°	4009	4076	3943
25°	3905	3996	3837
30°	3801	3920	3729
35°	3690	3841	3614
40°	3594	3756	3513
45°	3513	3688	3425
50°	3413	3575	3317
55°	3284	3500	3248
60°	3188	3395	3147
65°	3087	3331	3036
70°	2965	3207	2905
75°	2720	3040	2720
80°	2386	2864	2386
85°	1667	2618	1902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	0.9
10°-20°	103.2	2.6
20°-30°	152.4	3.8
30°-40°	178.8	4.5
40°-50°	181.2	4.5
50°-60°	161.6	4.0
60°-70°	123.9	3.1
70°-80°	73.5	1.8
80°-90°	20.7	0.5
90°-100°	31.3	0.8
100°-110°	127.6	3.2
110°-120°	357.5	9.0
120°-130°	521.4	13.1
130°-140°	561.6	14.1
140°-150°	535.0	13.4
150°-160°	439.1	11.0
160°-170°	286.7	7.2
170°-180°	99.4	2.5
0°-30°	292.1	7.3
0°-40°	470.9	11.8
0°-60°	813.7	20.4
0°-90°	1031.9	25.9
90°-120°	516.5	12.9
90°-150°	2134.6	53.5
90°-180°	2960.0	74.2
0°-180°	3991.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	386	386	386	386	386	
5°	386	386	386	385	381	37
15°	369	369	369	365	364	104
25°	329	335	336	331	323	151
35°	281	290	292	285	275	176
45°	231	236	242	235	225	178
55°	175	181	186	181	173	157
65°	121	125	131	125	119	120
75°	65	69	73	69	65	69
85°	14	17	21	17	15	16
90°	2	2	2	8	12	2
95°	8	10	23	42	42	8
105°	35	85	138	100	119	40
115°	338	669	336	179	204	400
125°	1004	871	540	288	256	889
135°	1102	990	714	467	375	851
145°	1150	1073	846	660	567	721
155°	1165	1106	952	814	746	539
165°	1144	1106	1019	931	890	325
175°	1090	1079	1054	1017	996	105
180°	1046	1046	1046	1046	1046	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5
2.5°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	388.5	388.5
5°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	384.6	386.5	386.5	386.5
7.5°	384.6	384.6	384.6	384.6	384.6	384.6	382.7	382.7	382.7	384.6	384.6
10°	380.8	380.8	380.8	378.8	378.8	380.8	378.8	378.8	380.8	380.8	380.8
12.5°	375.0	375.0	375.0	375.0	375.0	375.0	375.0	373.1	375.0	376.9	375.0
15°	369.2	369.2	369.2	369.2	369.2	369.2	369.2	367.3	369.2	371.2	369.2
17.5°	359.6	359.6	359.6	359.6	361.5	361.5	361.5	359.6	361.5	363.5	361.5
20°	350.0	350.0	350.0	351.9	351.9	351.9	351.9	351.9	351.9	353.8	353.8
22.5°	340.4	340.4	340.4	340.4	342.3	342.3	342.3	340.4	342.3	344.2	344.2
25°	328.8	328.8	328.8	328.8	330.8	330.8	330.8	330.8	332.7	334.6	334.6
27.5°	317.3	317.3	317.3	319.2	321.2	321.2	321.2	321.2	321.2	323.1	325.0
30°	305.8	305.8	305.8	307.7	307.7	309.6	309.6	309.6	309.6	311.5	313.5
32.5°	294.2	294.2	294.2	296.2	296.2	296.2	298.1	298.1	298.1	300.0	301.9
35°	280.8	282.7	282.7	282.7	284.6	284.6	284.6	284.6	286.5	288.5	290.4
37.5°	269.2	269.2	269.2	269.2	271.2	271.2	271.2	273.1	273.1	275.0	276.9
40°	255.8	255.8	255.8	257.7	257.7	257.7	259.6	259.6	261.5	263.5	263.5
42.5°	242.3	242.3	242.3	244.2	244.2	244.2	246.2	248.1	248.1	250.0	250.0
45°	230.8	228.8	230.8	230.8	230.8	230.8	232.7	232.7	234.6	236.5	236.5
47.5°	217.3	215.4	217.3	217.3	217.3	217.3	219.2	219.2	221.2	221.2	223.1
50°	203.8	201.9	203.8	203.8	203.8	203.8	205.8	205.8	207.7	207.7	209.6
52.5°	190.4	190.4	190.4	190.4	190.4	190.4	190.4	192.3	194.2	194.2	196.2
55°	175.0	175.0	176.9	176.9	176.9	176.9	176.9	178.8	178.8	180.8	180.8
57.5°	161.5	161.5	161.5	163.5	163.5	163.5	163.5	165.4	165.4	167.3	167.3
60°	148.1	148.1	148.1	148.1	150.0	150.0	150.0	150.0	151.9	153.8	153.8
62.5°	134.6	134.6	134.6	134.6	136.5	136.5	136.5	136.5	136.5	138.5	138.5
65°	121.2	121.2	121.2	121.2	121.2	121.2	121.2	123.1	123.1	125.0	125.0
67.5°	107.7	105.8	107.7	107.7	107.7	107.7	107.7	109.6	109.6	109.6	111.5
70°	94.2	92.3	92.3	92.3	94.2	94.2	94.2	96.2	94.2	96.2	96.2
72.5°	78.8	78.8	78.8	78.8	78.8	80.8	80.8	80.8	80.8	82.7	82.7
75°	65.4	65.4	65.4	65.4	65.4	65.4	67.3	67.3	67.3	69.2	69.2
77.5°	51.9	51.9	51.9	51.9	51.9	51.9	53.8	53.8	53.8	53.8	55.8
80°	38.5	38.5	38.5	38.5	38.5	38.5	40.4	40.4	40.4	40.4	42.3
82.5°	25.0	25.0	25.0	26.9	25.0	26.9	26.9	26.9	26.9	26.9	28.8
85°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	15.4	15.4	17.3
87.5°	3.8	1.9	1.9	3.8	1.9	3.8	3.8	3.8	3.8	3.8	3.8
90°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
92.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
95°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	9.6	9.6
97.5°	11.5	11.5	11.5	11.5	11.5	13.5	13.5	13.5	13.5	15.4	17.3
100°	17.3	17.3	17.3	17.3	19.2	19.2	19.2	21.2	21.2	25.0	26.9
102.5°	25.0	25.0	25.0	25.0	26.9	26.9	28.8	30.8	32.7	38.5	48.1
105°	34.6	34.6	34.6	36.5	38.5	38.5	40.4	44.2	51.9	63.5	84.6
107.5°	48.1	48.1	50.0	51.9	55.8	57.7	61.5	75.0	92.3	123.1	184.6
110°	73.1	73.1	76.9	82.7	94.2	101.9	115.4	151.9	205.8	284.6	369.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	138.5	140.4	155.8	167.3	205.8	234.6	275.0	355.8	438.5	509.6	559.6
115°	338.5	344.2	382.7	403.8	490.4	507.7	551.9	628.8	665.4	675.0	669.2
117.5°	680.8	682.7	709.6	726.9	759.6	771.2	775.0	788.5	780.8	765.4	744.2
120°	884.6	880.8	884.6	878.8	880.8	876.9	871.2	859.6	840.4	819.2	792.3
122.5°	961.5	959.6	955.8	944.2	938.5	930.8	921.2	907.7	888.5	861.5	834.6
125°	1003.8	1001.9	998.1	986.5	976.9	969.2	961.5	946.2	923.1	900.0	871.2
127.5°	1034.6	1032.7	1026.9	1019.2	1007.7	1000.0	992.3	976.9	953.8	930.8	905.8
130°	1059.6	1057.7	1051.9	1046.2	1034.6	1028.8	1021.2	1005.8	982.7	959.6	934.6
132.5°	1082.7	1080.8	1076.9	1071.2	1059.6	1051.9	1046.2	1032.7	1007.7	984.6	965.4
135°	1101.9	1098.1	1098.1	1090.4	1078.8	1073.1	1067.3	1053.8	1030.8	1009.6	990.4
137.5°	1117.3	1115.4	1111.5	1105.8	1096.2	1090.4	1084.6	1071.2	1051.9	1030.8	1013.5
140°	1130.8	1128.8	1126.9	1121.2	1111.5	1105.8	1101.9	1086.5	1069.2	1051.9	1036.5
142.5°	1142.3	1140.4	1136.5	1132.7	1123.1	1119.2	1115.4	1101.9	1082.7	1069.2	1055.8
145°	1150.0	1150.0	1146.2	1142.3	1134.6	1130.8	1126.9	1111.5	1096.2	1084.6	1073.1
147.5°	1157.7	1157.7	1151.9	1150.0	1144.2	1140.4	1136.5	1121.2	1105.8	1096.2	1084.6
150°	1161.5	1161.5	1157.7	1153.8	1148.1	1146.2	1142.3	1128.8	1115.4	1107.7	1094.2
152.5°	1165.4	1165.4	1161.5	1157.7	1151.9	1150.0	1144.2	1134.6	1121.2	1113.5	1101.9
155°	1165.4	1167.3	1161.5	1157.7	1153.8	1151.9	1146.2	1134.6	1125.0	1119.2	1105.8
157.5°	1163.5	1163.5	1161.5	1157.7	1151.9	1150.0	1144.2	1132.7	1125.0	1123.1	1107.7
160°	1159.6	1159.6	1157.7	1151.9	1150.0	1146.2	1140.4	1132.7	1126.9	1123.1	1111.5
162.5°	1153.8	1151.9	1150.0	1146.2	1144.2	1142.3	1138.5	1128.8	1123.1	1121.2	1109.6
165°	1144.2	1142.3	1140.4	1138.5	1136.5	1134.6	1130.8	1121.2	1119.2	1117.3	1105.8
167.5°	1134.6	1130.8	1128.8	1125.0	1125.0	1121.2	1119.2	1113.5	1111.5	1111.5	1103.8
170°	1119.2	1117.3	1115.4	1113.5	1113.5	1111.5	1109.6	1101.9	1101.9	1103.8	1096.2
172.5°	1107.7	1103.8	1103.8	1101.9	1101.9	1100.0	1098.1	1092.3	1092.3	1094.2	1090.4
175°	1090.4	1088.5	1086.5	1084.6	1084.6	1084.6	1082.7	1078.8	1080.8	1082.7	1078.8
177.5°	1069.2	1063.5	1065.4	1065.4	1069.2	1067.3	1067.3	1063.5	1065.4	1069.2	1067.3
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5
2.5°	384.6	384.6	382.7	384.6	384.6	384.6	386.5	386.5	388.5	388.5	388.5
5°	384.6	382.7	382.7	382.7	384.6	384.6	384.6	386.5	386.5	386.5	386.5
7.5°	380.8	380.8	380.8	380.8	380.8	382.7	382.7	382.7	384.6	384.6	382.7
10°	378.8	376.9	376.9	376.9	378.8	378.8	378.8	380.8	380.8	380.8	378.8
12.5°	373.1	373.1	371.2	373.1	373.1	373.1	373.1	375.0	375.0	375.0	375.0
15°	367.3	367.3	365.4	367.3	367.3	367.3	367.3	369.2	371.2	369.2	369.2
17.5°	359.6	359.6	359.6	359.6	359.6	361.5	361.5	363.5	363.5	363.5	361.5
20°	351.9	351.9	351.9	351.9	351.9	351.9	353.8	353.8	355.8	355.8	353.8
22.5°	342.3	342.3	342.3	342.3	344.2	344.2	344.2	346.2	346.2	346.2	344.2
25°	334.6	332.7	332.7	332.7	334.6	334.6	334.6	336.5	336.5	336.5	336.5
27.5°	323.1	323.1	321.2	323.1	323.1	325.0	325.0	326.9	326.9	326.9	325.0
30°	313.5	311.5	311.5	311.5	313.5	313.5	315.4	315.4	317.3	315.4	315.4
32.5°	301.9	301.9	300.0	301.9	301.9	301.9	303.8	303.8	305.8	305.8	303.8
35°	290.4	288.5	288.5	290.4	290.4	290.4	292.3	292.3	294.2	292.3	292.3
37.5°	278.8	276.9	276.9	276.9	276.9	278.8	280.8	280.8	280.8	280.8	280.8
40°	265.4	265.4	265.4	265.4	265.4	265.4	267.3	267.3	269.2	267.3	267.3
42.5°	253.8	251.9	251.9	251.9	251.9	253.8	253.8	255.8	255.8	255.8	253.8
45°	240.4	240.4	240.4	238.5	238.5	240.4	242.3	242.3	242.3	242.3	240.4
47.5°	226.9	225.0	226.9	226.9	225.0	226.9	228.8	228.8	228.8	228.8	226.9
50°	211.5	211.5	211.5	213.5	211.5	213.5	215.4	215.4	215.4	213.5	213.5
52.5°	196.2	198.1	200.0	200.0	198.1	200.0	200.0	200.0	200.0	200.0	200.0
55°	182.7	184.6	184.6	184.6	184.6	186.5	186.5	186.5	186.5	186.5	186.5
57.5°	169.2	169.2	171.2	171.2	171.2	171.2	171.2	173.1	171.2	171.2	171.2
60°	153.8	155.8	157.7	157.7	157.7	157.7	157.7	159.6	157.7	157.7	157.7
62.5°	140.4	140.4	142.3	144.2	142.3	144.2	144.2	144.2	144.2	144.2	144.2
65°	126.9	126.9	128.8	128.8	128.8	128.8	128.8	130.8	128.8	130.8	130.8
67.5°	111.5	113.5	113.5	115.4	115.4	115.4	115.4	117.3	117.3	115.4	115.4
70°	98.1	98.1	100.0	100.0	101.9	101.9	101.9	101.9	101.9	101.9	101.9
72.5°	82.7	84.6	84.6	86.5	86.5	86.5	86.5	88.5	88.5	88.5	88.5
75°	69.2	71.2	71.2	73.1	71.2	73.1	73.1	73.1	75.0	73.1	75.0
77.5°	55.8	57.7	57.7	57.7	59.6	59.6	59.6	59.6	59.6	59.6	59.6
80°	42.3	44.2	44.2	44.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
82.5°	28.8	30.8	30.8	30.8	30.8	32.7	32.7	32.7	32.7	32.7	32.7
85°	17.3	17.3	17.3	19.2	19.2	19.2	19.2	21.2	21.2	21.2	21.2
87.5°	5.8	5.8	5.8	7.7	7.7	7.7	7.7	7.7	7.7	9.6	9.6
90°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
92.5°	5.8	5.8	5.8	5.8	7.7	7.7	11.5	11.5	9.6	9.6	9.6
95°	11.5	11.5	15.4	19.2	23.1	26.9	30.8	30.8	26.9	23.1	21.2
97.5°	19.2	25.0	32.7	44.2	50.0	57.7	63.5	57.7	50.0	42.3	38.5
100°	34.6	46.2	65.4	88.5	98.1	105.8	107.7	96.2	80.8	65.4	59.6
102.5°	65.4	88.5	128.8	159.6	167.3	173.1	163.5	142.3	121.2	98.1	86.5
105°	125.0	176.9	232.7	248.1	251.9	248.1	226.9	196.2	167.3	138.5	121.2
107.5°	255.8	315.4	350.0	342.3	332.7	321.2	290.4	253.8	219.2	182.7	161.5
110°	425.0	450.0	448.1	421.2	401.9	384.6	351.9	311.5	271.2	232.7	205.8



TEST NUMBER: P303193

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	565.4	551.9	525.0	486.5	465.4	444.2	409.6	369.2	325.0	284.6	255.8
115°	650.0	621.2	584.6	550.0	528.8	505.8	465.4	423.1	378.8	336.5	305.8
117.5°	709.6	676.9	642.3	603.8	582.7	561.5	523.1	475.0	430.8	388.5	355.8
120°	757.7	723.1	686.5	651.9	632.7	613.5	573.1	528.8	480.8	440.4	403.8
122.5°	801.9	767.3	734.6	698.1	676.9	659.6	617.3	575.0	532.7	490.4	451.9
125°	842.3	811.5	773.1	738.5	721.2	701.9	661.5	619.2	580.8	540.4	503.8
127.5°	878.8	848.1	813.5	775.0	757.7	740.4	698.1	659.6	625.0	584.6	550.0
130°	911.5	880.8	848.1	811.5	796.2	776.9	738.5	700.0	667.3	630.8	594.2
132.5°	942.3	911.5	878.8	844.2	826.9	809.6	776.9	738.5	707.7	675.0	638.5
135°	969.2	938.5	905.8	871.2	855.8	840.4	807.7	775.0	742.3	713.5	678.8
137.5°	992.3	963.5	930.8	898.1	884.6	869.2	838.5	807.7	778.8	750.0	717.3
140°	1013.5	984.6	951.9	921.2	907.7	896.2	865.4	838.5	813.5	784.6	753.8
142.5°	1032.7	1001.9	971.2	942.3	930.8	919.2	892.3	867.3	844.2	815.4	788.5
145°	1048.1	1017.3	988.5	961.5	953.8	940.4	915.4	894.2	871.2	846.2	821.2
147.5°	1063.5	1034.6	1005.8	980.8	973.1	961.5	940.4	919.2	898.1	875.0	851.9
150°	1073.1	1046.2	1021.2	1000.0	992.3	980.8	959.6	942.3	925.0	901.9	878.8
152.5°	1080.8	1055.8	1032.7	1015.4	1009.6	1000.0	980.8	967.3	948.1	928.8	907.7
155°	1086.5	1063.5	1044.2	1028.8	1023.1	1017.3	998.1	986.5	969.2	951.9	932.7
157.5°	1090.4	1069.2	1051.9	1040.4	1034.6	1028.8	1011.5	1001.9	988.5	973.1	953.8
160°	1092.3	1073.1	1059.6	1050.0	1044.2	1038.5	1026.9	1015.4	1001.9	990.4	975.0
162.5°	1092.3	1076.9	1063.5	1055.8	1051.9	1048.1	1036.5	1026.9	1017.3	1005.8	992.3
165°	1092.3	1078.8	1067.3	1061.5	1057.7	1055.8	1044.2	1038.5	1028.8	1019.2	1007.7
167.5°	1088.5	1076.9	1069.2	1065.4	1061.5	1059.6	1051.9	1044.2	1038.5	1032.7	1021.2
170°	1084.6	1075.0	1067.3	1065.4	1063.5	1061.5	1055.8	1051.9	1048.1	1042.3	1032.7
172.5°	1078.8	1071.2	1065.4	1063.5	1063.5	1061.5	1057.7	1055.8	1053.8	1050.0	1042.3
175°	1069.2	1063.5	1057.7	1059.6	1059.6	1059.6	1055.8	1057.7	1055.8	1053.8	1048.1
177.5°	1057.7	1053.8	1051.9	1053.8	1053.8	1053.8	1053.8	1055.8	1057.7	1057.7	1051.9
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2



TEST NUMBER: P303193

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5
2.5°	384.6	382.7	382.7	382.7	384.6	384.6	384.6	384.6	386.5	386.5	386.5
5°	382.7	380.8	380.8	380.8	382.7	382.7	382.7	382.7	384.6	384.6	384.6
7.5°	380.8	378.8	378.8	378.8	378.8	380.8	380.8	378.8	380.8	382.7	380.8
10°	376.9	375.0	375.0	375.0	375.0	376.9	376.9	375.0	376.9	376.9	376.9
12.5°	371.2	369.2	369.2	369.2	371.2	371.2	371.2	369.2	371.2	373.1	371.2
15°	365.4	363.5	363.5	363.5	363.5	365.4	365.4	363.5	365.4	365.4	363.5
17.5°	359.6	357.7	355.8	355.8	357.7	357.7	357.7	355.8	357.7	357.7	355.8
20°	350.0	348.1	348.1	348.1	350.0	350.0	348.1	348.1	350.0	348.1	348.1
22.5°	342.3	340.4	340.4	340.4	340.4	340.4	340.4	338.5	340.4	338.5	338.5
25°	332.7	330.8	330.8	330.8	330.8	330.8	328.8	328.8	330.8	328.8	326.9
27.5°	323.1	321.2	321.2	321.2	321.2	321.2	319.2	319.2	319.2	317.3	317.3
30°	311.5	311.5	309.6	309.6	309.6	309.6	307.7	307.7	309.6	307.7	305.8
32.5°	301.9	300.0	300.0	300.0	300.0	298.1	296.2	296.2	296.2	296.2	294.2
35°	288.5	288.5	288.5	288.5	286.5	286.5	284.6	286.5	284.6	282.7	282.7
37.5°	276.9	276.9	275.0	275.0	275.0	275.0	273.1	275.0	273.1	271.2	269.2
40°	265.4	263.5	263.5	263.5	263.5	261.5	261.5	261.5	259.6	257.7	257.7
42.5°	251.9	251.9	250.0	251.9	250.0	250.0	248.1	250.0	248.1	246.2	244.2
45°	238.5	238.5	238.5	238.5	238.5	236.5	236.5	236.5	234.6	232.7	230.8
47.5°	225.0	225.0	225.0	226.9	225.0	223.1	223.1	223.1	221.2	219.2	217.3
50°	211.5	211.5	211.5	211.5	211.5	209.6	209.6	207.7	207.7	205.8	203.8
52.5°	198.1	198.1	198.1	200.0	198.1	196.2	196.2	196.2	194.2	192.3	190.4
55°	184.6	184.6	186.5	184.6	184.6	184.6	182.7	182.7	180.8	178.8	176.9
57.5°	171.2	171.2	171.2	171.2	171.2	169.2	169.2	169.2	167.3	165.4	163.5
60°	157.7	157.7	157.7	157.7	155.8	155.8	155.8	153.8	151.9	150.0	150.0
62.5°	142.3	144.2	144.2	142.3	142.3	142.3	140.4	140.4	138.5	138.5	136.5
65°	128.8	130.8	128.8	128.8	128.8	128.8	126.9	126.9	125.0	123.1	123.1
67.5°	115.4	115.4	115.4	115.4	115.4	113.5	113.5	111.5	111.5	109.6	109.6
70°	101.9	101.9	100.0	100.0	101.9	100.0	98.1	98.1	98.1	96.2	96.2
72.5°	88.5	88.5	86.5	86.5	86.5	86.5	84.6	84.6	82.7	82.7	80.8
75°	73.1	73.1	73.1	73.1	73.1	71.2	71.2	71.2	69.2	69.2	67.3
77.5°	59.6	59.6	59.6	59.6	59.6	57.7	57.7	57.7	57.7	55.8	55.8
80°	46.2	46.2	46.2	46.2	46.2	44.2	44.2	44.2	42.3	42.3	40.4
82.5°	32.7	32.7	32.7	32.7	32.7	30.8	30.8	30.8	28.8	28.8	28.8
85°	21.2	19.2	19.2	19.2	19.2	19.2	17.3	17.3	17.3	17.3	15.4
87.5°	9.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	5.8	7.7
90°	1.9	3.8	3.8	5.8	5.8	5.8	5.8	7.7	7.7	7.7	7.7
92.5°	15.4	19.2	19.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
95°	25.0	28.8	36.5	38.5	40.4	44.2	44.2	44.2	42.3	42.3	42.3
97.5°	36.5	42.3	42.3	46.2	48.1	55.8	61.5	63.5	67.3	67.3	67.3
100°	55.8	53.8	59.6	63.5	63.5	63.5	67.3	75.0	78.8	82.7	84.6
102.5°	80.8	73.1	73.1	75.0	78.8	86.5	80.8	82.7	86.5	90.4	96.2
105°	107.7	100.0	94.2	92.3	94.2	100.0	105.8	103.8	100.0	101.9	105.8
107.5°	142.3	128.8	117.3	115.4	115.4	115.4	121.2	126.9	130.8	126.9	123.1
110°	182.7	161.5	150.0	140.4	138.5	136.5	136.5	140.4	148.1	153.8	155.8



TEST NUMBER: P303193

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	226.9	201.9	182.7	173.1	167.3	159.6	157.7	157.7	161.5	169.2	175.0
115°	273.1	246.2	221.2	211.5	201.9	188.5	182.7	178.8	178.8	182.7	188.5
117.5°	321.2	292.3	265.4	250.0	242.3	223.1	209.6	201.9	200.0	200.0	203.8
120°	369.2	342.3	311.5	294.2	284.6	263.5	244.2	228.8	223.1	221.2	219.2
122.5°	417.3	388.5	359.6	342.3	330.8	305.8	286.5	263.5	253.8	244.2	242.3
125°	465.4	436.5	405.8	392.3	376.9	350.0	328.8	305.8	288.5	275.0	265.4
127.5°	515.4	482.7	451.9	442.3	425.0	398.1	375.0	351.9	332.7	313.5	300.0
130°	559.6	532.7	503.8	488.5	473.1	446.2	419.2	396.2	378.8	359.6	342.3
132.5°	603.8	576.9	550.0	540.4	525.0	494.2	469.2	442.3	423.1	403.8	388.5
135°	644.2	617.3	592.3	582.7	569.2	542.3	519.2	492.3	467.3	450.0	434.6
137.5°	682.7	657.7	632.7	623.1	611.5	586.5	565.4	542.3	519.2	501.9	478.8
140°	721.2	696.2	673.1	663.5	651.9	628.8	605.8	588.5	565.4	548.1	530.8
142.5°	757.7	732.7	709.6	700.0	692.3	669.2	648.1	632.7	613.5	594.2	578.8
145°	792.3	765.4	746.2	736.5	728.8	707.7	688.5	675.0	659.6	640.4	625.0
147.5°	823.1	798.1	778.8	773.1	765.4	748.1	728.8	713.5	701.9	684.6	669.2
150°	851.9	828.8	811.5	805.8	800.0	780.8	763.5	750.0	740.4	725.0	709.6
152.5°	882.7	859.6	844.2	838.5	830.8	815.4	800.0	784.6	776.9	765.4	750.0
155°	907.7	888.5	873.1	867.3	859.6	848.1	830.8	819.2	813.5	800.0	786.5
157.5°	932.7	913.5	900.0	894.2	888.5	876.9	861.5	850.0	846.2	834.6	823.1
160°	953.8	936.5	923.1	917.3	913.5	903.8	890.4	878.8	876.9	869.2	857.7
162.5°	973.1	955.8	946.2	940.4	936.5	930.8	917.3	905.8	903.8	898.1	888.5
165°	988.5	973.1	965.4	961.5	959.6	953.8	942.3	930.8	930.8	926.9	915.4
167.5°	1005.8	990.4	982.7	980.8	978.8	973.1	965.4	955.8	955.8	951.9	942.3
170°	1019.2	1005.8	1000.0	998.1	996.2	992.3	986.5	976.9	978.8	975.0	967.3
172.5°	1028.8	1019.2	1015.4	1011.5	1011.5	1009.6	1005.8	998.1	1000.0	998.1	990.4
175°	1036.5	1026.9	1026.9	1023.1	1025.0	1025.0	1019.2	1013.5	1017.3	1019.2	1011.5
177.5°	1042.3	1034.6	1034.6	1034.6	1036.5	1036.5	1034.6	1028.8	1032.7	1036.5	1028.8
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2



TEST NUMBER: P303193

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5
2.5°	386.5	386.5	386.5	384.6	386.5	382.7	380.8	380.8
5°	382.7	382.7	382.7	382.7	382.7	382.7	380.8	380.8
7.5°	380.8	380.8	378.8	378.8	380.8	380.8	378.8	378.8
10°	375.0	375.0	375.0	375.0	376.9	375.0	375.0	375.0
12.5°	371.2	369.2	369.2	369.2	371.2	369.2	369.2	369.2
15°	363.5	363.5	363.5	363.5	365.4	363.5	363.5	363.5
17.5°	355.8	355.8	355.8	355.8	357.7	355.8	353.8	353.8
20°	348.1	346.2	346.2	346.2	346.2	346.2	344.2	344.2
22.5°	336.5	336.5	336.5	336.5	336.5	334.6	334.6	334.6
25°	326.9	325.0	325.0	326.9	325.0	325.0	323.1	323.1
27.5°	315.4	315.4	315.4	315.4	315.4	313.5	311.5	311.5
30°	305.8	303.8	303.8	303.8	303.8	301.9	300.0	300.0
32.5°	294.2	292.3	292.3	292.3	292.3	288.5	288.5	288.5
35°	280.8	280.8	280.8	280.8	278.8	276.9	276.9	275.0
37.5°	269.2	267.3	267.3	267.3	265.4	265.4	263.5	263.5
40°	255.8	255.8	255.8	255.8	253.8	251.9	250.0	250.0
42.5°	242.3	242.3	242.3	242.3	240.4	238.5	238.5	238.5
45°	230.8	228.8	228.8	228.8	226.9	226.9	225.0	225.0
47.5°	217.3	217.3	215.4	215.4	215.4	213.5	211.5	211.5
50°	203.8	203.8	203.8	201.9	200.0	200.0	200.0	198.1
52.5°	190.4	190.4	190.4	188.5	188.5	186.5	186.5	186.5
55°	176.9	176.9	176.9	175.0	175.0	173.1	173.1	173.1
57.5°	163.5	163.5	163.5	161.5	161.5	159.6	159.6	159.6
60°	150.0	150.0	148.1	148.1	148.1	146.2	146.2	146.2
62.5°	136.5	134.6	134.6	134.6	134.6	132.7	132.7	132.7
65°	123.1	121.2	121.2	121.2	121.2	119.2	119.2	119.2
67.5°	109.6	107.7	107.7	107.7	107.7	105.8	105.8	105.8
70°	94.2	94.2	94.2	94.2	94.2	92.3	92.3	92.3
72.5°	80.8	80.8	80.8	80.8	78.8	78.8	78.8	78.8
75°	67.3	67.3	67.3	67.3	65.4	65.4	65.4	65.4
77.5°	53.8	53.8	53.8	53.8	53.8	51.9	51.9	53.8
80°	40.4	40.4	40.4	40.4	40.4	38.5	38.5	38.5
82.5°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	25.0
85°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
87.5°	5.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7
90°	7.7	9.6	9.6	9.6	9.6	11.5	11.5	11.5
92.5°	21.2	23.1	23.1	21.2	23.1	23.1	23.1	23.1
95°	40.4	42.3	42.3	40.4	42.3	42.3	42.3	42.3
97.5°	67.3	67.3	67.3	65.4	67.3	65.4	65.4	65.4
100°	86.5	86.5	88.5	88.5	90.4	90.4	88.5	90.4
102.5°	98.1	100.0	101.9	101.9	103.8	103.8	105.8	105.8
105°	107.7	109.6	111.5	111.5	115.4	117.3	119.2	119.2
107.5°	123.1	123.1	125.0	125.0	126.9	126.9	126.9	128.8
110°	153.8	148.1	146.2	146.2	144.2	144.2	144.2	144.2



TEST NUMBER: P303193

CATALOG NUMBER: CTW-F-7525-20L830-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	178.8	178.8	180.8	180.8	180.8	178.8	175.0	176.9
115°	194.2	198.1	198.1	200.0	200.0	201.9	201.9	203.8
117.5°	205.8	209.6	211.5	213.5	217.3	219.2	219.2	219.2
120°	221.2	223.1	225.0	225.0	226.9	228.8	230.8	230.8
122.5°	240.4	238.5	240.4	240.4	240.4	242.3	242.3	242.3
125°	261.5	259.6	257.7	257.7	255.8	255.8	255.8	255.8
127.5°	290.4	284.6	282.7	280.8	276.9	276.9	275.0	276.9
130°	328.8	319.2	315.4	311.5	303.8	303.8	300.0	300.0
132.5°	373.1	361.5	355.8	351.9	342.3	338.5	334.6	334.6
135°	421.2	409.6	401.9	398.1	386.5	382.7	378.8	375.0
137.5°	467.3	455.8	450.0	448.1	436.5	432.7	425.0	423.1
140°	517.3	505.8	500.0	496.2	482.7	476.9	473.1	471.2
142.5°	565.4	551.9	546.2	544.2	534.6	528.8	523.1	521.2
145°	611.5	598.1	592.3	592.3	580.8	576.9	571.2	567.3
147.5°	657.7	644.2	638.5	638.5	628.8	621.2	617.3	613.5
150°	700.0	688.5	682.7	682.7	673.1	665.4	659.6	657.7
152.5°	738.5	728.8	725.0	725.0	717.3	709.6	705.8	703.8
155°	776.9	769.2	763.5	763.5	757.7	750.0	748.1	746.2
157.5°	815.4	807.7	801.9	803.8	796.2	790.4	786.5	786.5
160°	850.0	844.2	838.5	838.5	834.6	828.8	821.2	823.1
162.5°	884.6	876.9	873.1	873.1	871.2	863.5	855.8	857.7
165°	909.6	905.8	903.8	903.8	901.9	896.2	890.4	890.4
167.5°	936.5	932.7	930.8	930.8	928.8	925.0	919.2	921.2
170°	963.5	959.6	957.7	955.8	955.8	951.9	948.1	948.1
172.5°	988.5	984.6	982.7	982.7	984.6	980.8	975.0	975.0
175°	1009.6	1007.7	1003.8	1003.8	1003.8	1000.0	996.2	996.2
177.5°	1028.8	1026.9	1026.9	1025.0	1026.9	1021.2	1015.4	1015.4
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2

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