

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: P303217

Luminaire Tested: **CTW-F-7525-40L840-UNV-STD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-7525-40L840-UNV-STD-4
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
75% UPLIGHT, 25% DOWNLIGHT, 4000 LUMEN PACKAGE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

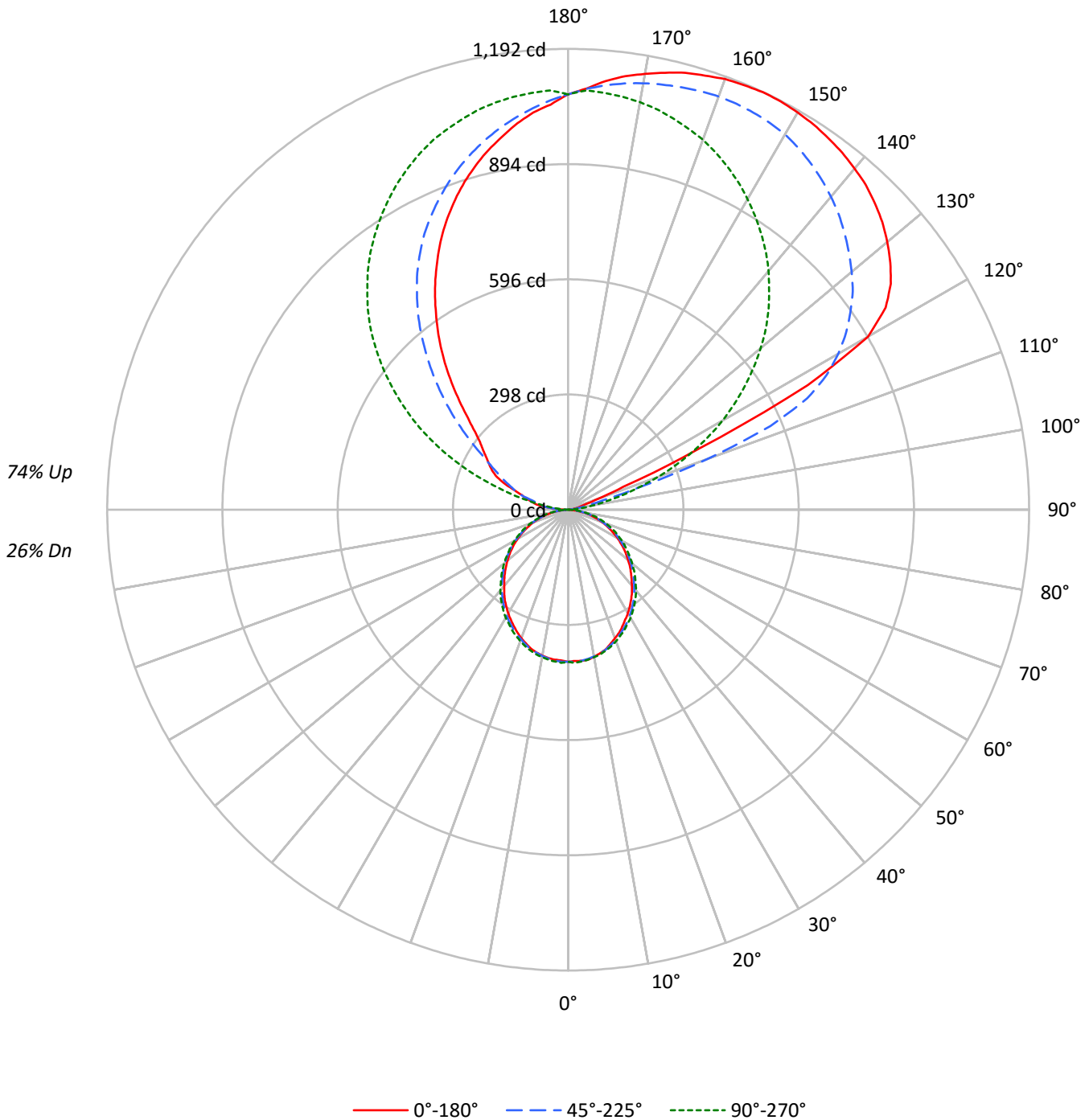
Lumens per Lamp: N/A
Luminaire Lumens: 4080.3 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.31
Luminous Opening: Rectangular (W 4' x L: 0.12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 30
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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CATALOG NUMBER: CTW-F-7525-40L840-UNV-STD-4

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	75	73	61	59	57	45	43	42	30	29	28	21
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	21	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	18	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	22	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°	8469	8469	8469
5°	8480	8523	8413
10°	8444	8466	8377
15°	8338	8405	8291
20°	8103	8289	8103
25°	7893	8159	7893
30°	7676	8032	7701
35°	7445	7847	7500
40°	7189	7678	7217
45°	6981	7447	7045
50°	6759	7237	6862
55°	6579	7037	6696
60°	6364	6889	6493
65°	6077	6749	6281
70°	5772	6546	6030
75°	5340	6272	5681
80°	4674	5814	5058
85°	3013	5286	3532



TEST NUMBER: P303217

CATALOG NUMBER: CTW-F-7525-40L840-UNV-STD-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	0.9
10°-20°	105.1	2.6
20°-30°	155.1	3.8
30°-40°	182.0	4.5
40°-50°	183.3	4.5
50°-60°	163.4	4.0
60°-70°	125.2	3.1
70°-80°	74.5	1.8
80°-90°	20.6	0.5
90°-100°	30.1	0.7
100°-110°	128.3	3.1
110°-120°	366.0	9.0
120°-130°	535.2	13.1
130°-140°	577.5	14.2
140°-150°	549.5	13.5
150°-160°	450.9	11.1
160°-170°	294.5	7.2
170°-180°	102.0	2.5
0°-30°	297.4	7.3
0°-40°	479.4	11.7
0°-60°	826.0	20.2
0°-90°	1046.4	25.6
90°-120°	524.3	12.9
90°-150°	2186.5	53.6
90°-180°	3034.0	74.4
0°-180°	4080.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	393	393	393	393	393	
5°	392	392	394	391	389	37
15°	374	375	377	373	372	105
25°	332	339	344	338	332	153
35°	283	294	299	294	285	177
45°	229	238	245	240	231	177
55°	175	182	188	186	178	156
65°	119	125	132	127	123	118
75°	64	68	75	71	68	68
85°	12	15	21	17	14	15
90°	1	1	1	5	9	1
95°	7	9	21	43	40	8
105°	34	92	145	101	112	41
115°	371	682	355	184	206	418
125°	1018	891	558	306	268	902
135°	1121	1011	733	493	398	866
145°	1173	1094	870	682	592	736
155°	1192	1133	977	839	776	550
165°	1170	1131	1048	957	922	332
175°	1113	1102	1082	1043	1032	107
180°	1074	1074	1074	1074	1074	



TEST NUMBER: P303217

CATALOG NUMBER: CTW-F-7525-40L840-UNV-STD-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4
2.5°	391.4	390.4	392.4	393.4	393.4	394.4	394.4	394.4	394.4	395.5	393.4
5°	392.4	392.4	392.4	392.4	391.4	392.4	392.4	393.4	393.4	394.4	392.4
7.5°	391.4	390.4	390.4	390.4	389.3	389.3	390.4	390.4	389.3	391.4	389.3
10°	386.3	386.3	385.3	385.3	385.3	385.3	385.3	386.3	386.3	387.3	385.3
12.5°	380.2	380.2	380.2	380.2	379.2	379.2	380.2	381.2	381.2	382.2	381.2
15°	374.1	373.0	374.1	375.1	374.1	374.1	374.1	375.1	375.1	376.1	375.1
17.5°	363.9	363.9	364.9	365.9	365.9	364.9	365.9	366.9	366.9	367.9	366.9
20°	353.7	353.7	354.7	355.7	355.7	355.7	356.7	356.7	357.8	357.8	358.8
22.5°	344.5	343.5	344.5	345.5	345.5	344.5	346.5	346.5	347.6	348.6	349.6
25°	332.3	331.3	333.3	334.3	334.3	334.3	335.3	336.3	337.4	338.4	339.4
27.5°	320.0	320.0	321.1	322.1	323.1	323.1	324.1	326.2	326.2	327.2	329.2
30°	308.8	308.8	309.8	310.9	311.9	311.9	311.9	313.9	316.0	316.0	318.0
32.5°	296.6	295.6	296.6	298.6	298.6	298.6	299.7	301.7	302.7	303.7	305.8
35°	283.3	283.3	284.4	285.4	286.4	286.4	287.4	289.5	290.5	291.5	293.5
37.5°	271.1	270.1	271.1	272.1	273.2	273.2	274.2	276.2	277.2	278.3	280.3
40°	255.8	254.8	255.8	256.8	257.9	257.9	258.9	261.9	263.0	264.0	266.0
42.5°	242.6	241.6	242.6	243.6	244.6	245.6	245.6	246.7	248.7	249.7	251.8
45°	229.3	228.3	228.3	230.3	231.4	231.4	232.4	233.4	235.4	236.5	238.5
47.5°	216.1	215.1	216.1	217.1	217.1	218.1	219.1	219.1	221.2	223.2	224.2
50°	201.8	201.8	201.8	202.8	203.8	204.9	204.9	205.9	206.9	208.9	211.0
52.5°	188.6	187.5	188.6	189.6	190.6	190.6	191.6	191.6	192.6	195.7	196.7
55°	175.3	174.3	174.3	175.3	175.3	176.3	177.3	177.3	178.4	180.4	182.4
57.5°	161.0	161.0	161.0	162.1	162.1	162.1	164.1	164.1	165.1	167.2	168.2
60°	147.8	147.8	146.8	147.8	147.8	148.8	149.8	149.8	150.8	151.9	153.9
62.5°	133.5	133.5	132.5	133.5	134.5	134.5	135.6	135.6	136.6	138.6	139.6
65°	119.3	120.3	119.3	119.3	120.3	120.3	121.3	121.3	122.3	123.3	125.4
67.5°	106.0	106.0	105.0	106.0	106.0	107.0	107.0	108.0	108.0	109.1	110.1
70°	91.7	91.7	91.7	91.7	92.8	92.8	93.8	93.8	93.8	94.8	95.8
72.5°	78.5	78.5	77.5	77.5	78.5	79.5	79.5	80.5	80.5	82.6	82.6
75°	64.2	64.2	64.2	64.2	65.2	65.2	65.2	66.3	67.3	67.3	68.3
77.5°	51.0	49.9	51.0	51.0	51.0	51.0	52.0	53.0	53.0	54.0	55.0
80°	37.7	36.7	37.7	37.7	37.7	37.7	38.7	38.7	39.8	40.8	40.8
82.5°	24.5	23.4	24.5	24.5	24.5	24.5	25.5	25.5	26.5	27.5	27.5
85°	12.2	11.2	12.2	12.2	12.2	12.2	12.2	13.3	14.3	14.3	15.3
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.1	3.1	4.1
90°	1.0	2.0	2.0	2.0	1.0	2.0	1.0	2.0	1.0	1.0	1.0
92.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
95°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.2	8.2	8.2	9.2
97.5°	12.2	11.2	11.2	12.2	12.2	12.2	12.2	13.3	14.3	15.3	17.3
100°	17.3	17.3	17.3	18.3	18.3	19.4	19.4	20.4	22.4	24.5	28.5
102.5°	25.5	25.5	25.5	26.5	26.5	27.5	28.5	30.6	33.6	38.7	47.9
105°	33.6	34.7	35.7	36.7	38.7	40.8	41.8	45.9	53.0	66.3	91.7
107.5°	49.9	49.9	52.0	54.0	58.1	62.2	65.2	77.5	94.8	131.5	192.6
110°	78.5	77.5	80.5	89.7	100.9	112.1	118.2	160.0	207.9	288.4	381.2



TEST NUMBER: P303217

CATALOG NUMBER: CTW-F-7525-40L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	153.9	151.9	162.1	183.5	224.2	258.9	274.2	354.7	441.3	516.8	565.7
115°	371.0	365.9	387.3	430.1	501.5	543.3	556.5	622.8	666.6	679.8	681.9
117.5°	698.2	692.1	706.3	729.8	767.5	781.8	778.7	789.9	784.8	772.6	753.2
120°	894.9	889.8	889.8	888.8	890.8	886.7	881.6	870.4	851.1	831.7	806.2
122.5°	973.4	971.3	966.2	957.1	950.9	945.8	935.7	919.3	900.0	878.6	852.1
125°	1018.2	1015.2	1010.1	1001.9	990.7	986.6	975.4	958.1	938.7	917.3	890.8
127.5°	1049.8	1046.8	1041.7	1035.5	1023.3	1019.2	1009.0	990.7	972.3	952.0	927.5
130°	1077.3	1074.3	1069.2	1064.1	1053.9	1046.8	1037.6	1020.3	1002.9	982.5	957.1
132.5°	1101.8	1097.7	1092.6	1088.5	1079.4	1074.3	1064.1	1047.8	1030.4	1011.1	984.6
135°	1121.2	1119.1	1113.0	1108.9	1099.8	1093.6	1085.5	1070.2	1053.9	1034.5	1011.1
137.5°	1139.5	1134.4	1131.3	1126.3	1117.1	1111.0	1103.8	1089.6	1074.3	1056.9	1035.5
140°	1151.7	1148.7	1144.6	1141.5	1132.4	1125.2	1119.1	1107.9	1092.6	1076.3	1056.9
142.5°	1164.0	1160.9	1157.8	1152.8	1144.6	1139.5	1133.4	1123.2	1111.0	1094.7	1076.3
145°	1173.1	1170.1	1167.0	1164.0	1155.8	1150.7	1145.6	1137.5	1125.2	1109.9	1093.6
147.5°	1181.3	1179.3	1176.2	1173.1	1166.0	1161.9	1157.8	1149.7	1137.5	1122.2	1108.9
150°	1186.4	1184.3	1181.3	1180.3	1172.1	1168.0	1165.0	1157.8	1146.6	1131.3	1121.2
152.5°	1190.5	1188.4	1185.4	1184.3	1176.2	1173.1	1170.1	1162.9	1151.7	1137.5	1128.3
155°	1191.5	1189.4	1186.4	1184.3	1176.2	1173.1	1171.1	1164.0	1154.8	1142.6	1133.4
157.5°	1188.4	1187.4	1185.4	1181.3	1174.2	1171.1	1170.1	1162.9	1155.8	1145.6	1136.4
160°	1185.4	1183.3	1182.3	1179.3	1173.1	1171.1	1170.1	1164.0	1156.8	1147.7	1137.5
162.5°	1177.2	1177.2	1176.2	1174.2	1169.1	1167.0	1166.0	1160.9	1153.8	1146.6	1135.4
165°	1170.1	1169.1	1167.0	1165.0	1160.9	1159.9	1157.8	1154.8	1147.7	1142.6	1131.3
167.5°	1157.8	1156.8	1154.8	1151.7	1148.7	1148.7	1147.7	1145.6	1139.5	1137.5	1126.3
170°	1144.6	1142.6	1142.6	1140.5	1137.5	1137.5	1137.5	1135.4	1130.3	1129.3	1120.1
172.5°	1131.3	1129.3	1128.3	1127.3	1123.2	1124.2	1124.2	1122.2	1119.1	1121.2	1112.0
175°	1113.0	1112.0	1109.9	1109.9	1107.9	1108.9	1111.0	1109.9	1106.9	1109.9	1101.8
177.5°	1090.6	1089.6	1090.6	1093.6	1091.6	1094.7	1094.7	1095.7	1094.7	1097.7	1089.6
180°	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3



TEST NUMBER: P303217

CATALOG NUMBER: CTW-F-7525-40L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4
2.5°	391.4	392.4	391.4	392.4	392.4	391.4	392.4	393.4	395.5	396.5	395.5
5°	390.4	390.4	390.4	390.4	390.4	390.4	390.4	391.4	393.4	394.4	393.4
7.5°	387.3	388.3	387.3	388.3	388.3	387.3	387.3	389.3	390.4	391.4	390.4
10°	384.3	384.3	383.2	384.3	384.3	384.3	384.3	385.3	386.3	387.3	386.3
12.5°	379.2	379.2	378.1	379.2	379.2	379.2	379.2	380.2	382.2	383.2	382.2
15°	373.0	373.0	373.0	373.0	374.1	373.0	373.0	375.1	376.1	377.1	376.1
17.5°	364.9	365.9	364.9	365.9	365.9	365.9	365.9	367.9	369.0	370.0	369.0
20°	355.7	356.7	356.7	356.7	357.8	357.8	357.8	358.8	360.8	361.8	360.8
22.5°	347.6	348.6	348.6	348.6	348.6	348.6	349.6	350.6	352.7	352.7	352.7
25°	337.4	337.4	338.4	339.4	339.4	339.4	340.4	341.4	342.5	343.5	342.5
27.5°	327.2	327.2	327.2	329.2	329.2	329.2	329.2	330.2	332.3	332.3	332.3
30°	317.0	316.0	317.0	318.0	319.0	319.0	319.0	320.0	322.1	323.1	322.1
32.5°	305.8	304.8	305.8	306.8	306.8	307.8	307.8	308.8	310.9	310.9	310.9
35°	293.5	292.5	293.5	294.6	294.6	295.6	296.6	296.6	298.6	298.6	298.6
37.5°	281.3	280.3	281.3	282.3	282.3	283.3	283.3	284.4	286.4	286.4	286.4
40°	268.1	267.0	267.0	269.1	269.1	269.1	271.1	271.1	273.2	273.2	273.2
42.5°	253.8	252.8	253.8	254.8	254.8	254.8	255.8	256.8	257.9	257.9	257.9
45°	239.5	239.5	240.5	241.6	241.6	241.6	242.6	243.6	244.6	244.6	244.6
47.5°	226.3	226.3	227.3	228.3	228.3	228.3	229.3	229.3	231.4	230.3	230.3
50°	212.0	213.0	214.0	215.1	215.1	215.1	216.1	216.1	217.1	216.1	217.1
52.5°	197.7	198.8	199.8	200.8	200.8	200.8	201.8	201.8	202.8	201.8	202.8
55°	183.5	183.5	185.5	186.5	186.5	186.5	187.5	187.5	188.6	187.5	188.6
57.5°	170.2	170.2	171.2	172.3	172.3	172.3	173.3	174.3	174.3	174.3	174.3
60°	154.9	155.9	157.0	158.0	159.0	159.0	159.0	160.0	160.0	160.0	160.0
62.5°	140.7	141.7	142.7	143.7	144.7	143.7	144.7	145.8	145.8	145.8	145.8
65°	126.4	127.4	128.4	129.4	130.5	129.4	130.5	131.5	131.5	132.5	131.5
67.5°	112.1	112.1	114.2	115.2	115.2	115.2	116.2	117.2	117.2	118.2	118.2
70°	97.8	97.8	99.9	100.9	100.9	100.9	101.9	102.9	104.0	104.0	104.0
72.5°	83.6	84.6	85.6	86.6	87.7	86.6	87.7	88.7	89.7	89.7	89.7
75°	69.3	70.3	71.3	72.4	73.4	72.4	73.4	74.4	74.4	75.4	75.4
77.5°	55.0	56.1	57.1	58.1	59.1	59.1	59.1	60.1	61.2	62.2	61.2
80°	41.8	42.8	43.8	44.8	45.9	44.8	45.9	45.9	46.9	46.9	46.9
82.5°	28.5	30.6	30.6	31.6	31.6	31.6	32.6	32.6	33.6	34.7	33.6
85°	16.3	17.3	18.3	19.4	19.4	19.4	19.4	20.4	20.4	21.4	21.4
87.5°	5.1	5.1	6.1	7.1	7.1	7.1	8.2	8.2	9.2	9.2	9.2
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°	4.1	4.1	5.1	6.1	7.1	8.2	10.2	10.2	9.2	8.2	9.2
95°	10.2	12.2	15.3	19.4	23.4	25.5	30.6	29.6	25.5	21.4	20.4
97.5°	20.4	25.5	32.6	43.8	52.0	57.1	63.2	58.1	48.9	41.8	37.7
100°	36.7	47.9	64.2	87.7	99.9	105.0	107.0	95.8	81.5	68.3	60.1
102.5°	66.3	92.8	125.4	158.0	170.2	170.2	164.1	143.7	122.3	102.9	87.7
105°	131.5	176.3	226.3	250.7	255.8	248.7	228.3	200.8	170.2	144.7	123.3
107.5°	266.0	325.1	347.6	346.5	341.4	324.1	296.6	261.9	223.2	191.6	165.1
110°	440.3	457.6	453.6	430.1	416.9	397.5	359.8	325.1	279.3	245.6	212.0



TEST NUMBER: P303217

CATALOG NUMBER: CTW-F-7525-40L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	576.9	559.6	534.1	498.4	482.1	461.7	423.0	385.3	336.3	300.7	264.0
115°	664.5	631.9	598.3	559.6	542.2	520.8	482.1	440.3	391.4	354.7	317.0
117.5°	727.7	689.0	653.3	614.6	598.3	576.9	537.1	493.3	444.4	408.7	371.0
120°	773.6	740.0	703.3	665.6	650.3	628.9	587.1	545.3	499.4	460.7	423.0
122.5°	819.5	783.8	749.1	713.5	698.2	676.8	632.9	592.2	547.3	509.6	472.9
125°	859.2	824.6	791.9	758.3	742.0	718.6	677.8	637.0	594.2	557.5	522.9
127.5°	895.9	864.3	830.7	798.1	781.8	757.3	718.6	678.8	640.1	604.4	569.8
130°	928.5	901.0	868.4	835.8	817.4	795.0	758.3	719.6	682.9	649.3	615.6
132.5°	959.1	932.6	902.0	867.4	849.0	829.7	794.0	759.3	724.7	693.1	660.5
135°	988.7	960.1	929.5	895.9	879.6	862.3	827.6	793.0	763.4	732.8	702.3
137.5°	1015.2	983.6	954.0	922.4	907.1	890.8	858.2	826.6	799.1	768.5	740.0
140°	1036.6	1005.0	977.4	945.8	932.6	918.3	886.7	857.2	832.7	806.2	777.7
142.5°	1053.9	1023.3	997.8	969.3	957.1	942.8	913.2	887.8	865.3	839.8	812.3
145°	1068.2	1040.6	1016.2	989.7	978.5	966.2	938.7	916.3	893.9	870.4	844.9
147.5°	1082.4	1055.9	1034.5	1010.1	999.9	988.7	962.2	942.8	922.4	900.0	876.5
150°	1093.6	1070.2	1048.8	1027.4	1017.2	1007.0	983.6	964.2	947.9	927.5	906.1
152.5°	1101.8	1082.4	1063.1	1043.7	1033.5	1024.3	1005.0	987.6	973.4	954.0	933.6
155°	1107.9	1091.6	1074.3	1058.0	1048.8	1040.6	1022.3	1008.0	993.8	977.4	958.1
157.5°	1113.0	1098.7	1083.4	1067.1	1061.0	1052.9	1036.6	1025.3	1013.1	998.8	981.5
160°	1116.1	1104.8	1089.6	1077.3	1071.2	1065.1	1049.8	1039.6	1030.4	1018.2	1001.9
162.5°	1117.1	1106.9	1094.7	1084.5	1079.4	1073.3	1060.0	1052.9	1043.7	1033.5	1018.2
165°	1116.1	1108.9	1097.7	1089.6	1085.5	1079.4	1069.2	1063.1	1056.9	1047.8	1034.5
167.5°	1114.0	1106.9	1099.8	1092.6	1088.5	1084.5	1076.3	1072.2	1067.1	1061.0	1049.8
170°	1109.9	1105.9	1098.7	1094.7	1091.6	1087.5	1080.4	1078.3	1076.3	1070.2	1061.0
172.5°	1103.8	1100.8	1095.7	1092.6	1090.6	1087.5	1082.4	1082.4	1081.4	1077.3	1069.2
175°	1094.7	1093.6	1089.6	1088.5	1087.5	1084.5	1082.4	1083.4	1084.5	1082.4	1076.3
177.5°	1084.5	1085.5	1082.4	1083.4	1082.4	1080.4	1080.4	1083.4	1085.5	1085.5	1081.4
180°	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3



TEST NUMBER: P303217

CATALOG NUMBER: CTW-F-7525-40L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4
2.5°	394.4	392.4	391.4	392.4	391.4	390.4	390.4	391.4	393.4	395.5	393.4
5°	392.4	390.4	390.4	390.4	390.4	389.3	389.3	389.3	391.4	394.4	391.4
7.5°	389.3	387.3	387.3	387.3	387.3	386.3	386.3	386.3	388.3	390.4	388.3
10°	385.3	384.3	383.2	383.2	383.2	382.2	381.2	382.2	384.3	386.3	383.2
12.5°	380.2	379.2	378.1	378.1	378.1	377.1	377.1	377.1	379.2	380.2	378.1
15°	374.1	373.0	372.0	373.0	372.0	371.0	371.0	371.0	373.0	374.1	372.0
17.5°	366.9	365.9	364.9	364.9	364.9	362.8	362.8	362.8	365.9	365.9	363.9
20°	358.8	356.7	356.7	356.7	355.7	354.7	354.7	354.7	356.7	356.7	354.7
22.5°	350.6	349.6	347.6	347.6	347.6	346.5	345.5	345.5	348.6	346.5	345.5
25°	341.4	339.4	338.4	338.4	337.4	336.3	335.3	335.3	338.4	336.3	334.3
27.5°	330.2	329.2	328.2	328.2	327.2	325.1	325.1	325.1	328.2	325.1	324.1
30°	320.0	319.0	318.0	318.0	317.0	314.9	314.9	316.0	318.0	314.9	313.9
32.5°	308.8	307.8	305.8	305.8	304.8	303.7	303.7	304.8	305.8	302.7	301.7
35°	296.6	295.6	294.6	294.6	293.5	292.5	292.5	293.5	293.5	290.5	289.5
37.5°	284.4	283.3	282.3	281.3	280.3	280.3	280.3	281.3	280.3	278.3	276.2
40°	272.1	271.1	269.1	269.1	268.1	267.0	267.0	269.1	267.0	265.0	261.9
42.5°	256.8	255.8	253.8	253.8	252.8	252.8	253.8	254.8	252.8	250.7	248.7
45°	243.6	242.6	241.6	241.6	240.5	240.5	240.5	240.5	239.5	238.5	236.5
47.5°	230.3	229.3	228.3	228.3	228.3	227.3	227.3	227.3	226.3	224.2	223.2
50°	217.1	216.1	215.1	215.1	214.0	213.0	214.0	213.0	213.0	211.0	208.9
52.5°	202.8	201.8	201.8	200.8	201.8	200.8	199.8	199.8	198.8	196.7	195.7
55°	188.6	188.6	187.5	187.5	187.5	186.5	186.5	185.5	185.5	183.5	181.4
57.5°	175.3	174.3	174.3	174.3	174.3	172.3	172.3	171.2	171.2	169.2	168.2
60°	161.0	160.0	160.0	160.0	160.0	159.0	158.0	158.0	155.9	154.9	153.9
62.5°	146.8	145.8	145.8	145.8	145.8	144.7	143.7	143.7	141.7	140.7	139.6
65°	132.5	131.5	131.5	131.5	131.5	130.5	129.4	129.4	127.4	126.4	126.4
67.5°	118.2	117.2	117.2	117.2	117.2	116.2	115.2	115.2	113.1	113.1	112.1
70°	104.0	104.0	104.0	102.9	102.9	101.9	100.9	100.9	98.9	98.9	97.8
72.5°	89.7	89.7	88.7	87.7	88.7	88.7	86.6	86.6	85.6	85.6	84.6
75°	75.4	75.4	74.4	74.4	74.4	73.4	72.4	72.4	71.3	71.3	70.3
77.5°	61.2	61.2	60.1	60.1	61.2	60.1	59.1	59.1	58.1	58.1	57.1
80°	46.9	47.9	46.9	47.9	46.9	46.9	45.9	44.8	44.8	44.8	43.8
82.5°	33.6	34.7	33.6	34.7	33.6	33.6	32.6	31.6	30.6	30.6	29.6
85°	21.4	21.4	20.4	21.4	20.4	20.4	19.4	18.3	17.3	17.3	17.3
87.5°	9.2	9.2	8.2	9.2	8.2	8.2	7.1	7.1	6.1	6.1	6.1
90°	2.0	3.1	4.1	4.1	4.1	4.1	5.1	5.1	5.1	5.1	6.1
92.5°	13.3	17.3	19.4	19.4	18.3	19.4	20.4	19.4	19.4	18.3	18.3
95°	23.4	26.5	31.6	34.7	37.7	41.8	43.8	42.8	42.8	40.8	40.8
97.5°	35.7	39.8	43.8	42.8	43.8	49.9	55.0	60.1	63.2	65.2	66.3
100°	56.1	54.0	57.1	60.1	61.2	60.1	62.2	67.3	72.4	74.4	78.5
102.5°	80.5	74.4	72.4	73.4	75.4	82.6	79.5	80.5	81.5	83.6	88.7
105°	110.1	99.9	94.8	93.8	92.8	95.8	102.9	105.0	100.9	99.9	101.9
107.5°	145.8	130.5	122.3	118.2	116.2	116.2	118.2	124.3	129.4	127.4	125.4
110°	188.6	166.1	153.9	146.8	141.7	138.6	139.6	141.7	146.8	151.9	155.9



TEST NUMBER: P303217

CATALOG NUMBER: CTW-F-7525-40L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	235.4	207.9	188.6	180.4	173.3	164.1	162.1	162.1	164.1	169.2	174.3
115°	287.4	253.8	229.3	218.1	210.0	194.7	187.5	183.5	184.5	185.5	189.6
117.5°	339.4	304.8	276.2	261.9	250.7	231.4	217.1	210.0	206.9	205.9	207.9
120°	389.3	356.7	326.2	310.9	296.6	273.2	253.8	238.5	232.4	227.3	226.3
122.5°	438.3	406.7	375.1	358.8	344.5	319.0	299.7	279.3	265.0	253.8	247.7
125°	490.3	455.6	424.0	409.7	394.4	366.9	342.5	324.1	305.8	290.5	279.3
127.5°	536.1	504.5	472.9	458.7	445.4	415.8	390.4	370.0	350.6	331.3	314.9
130°	583.0	552.4	521.8	506.6	492.3	465.8	439.3	416.9	397.5	378.1	359.8
132.5°	627.8	598.3	568.7	553.4	541.2	514.7	487.2	465.8	444.4	426.0	407.7
135°	670.7	640.1	613.6	598.3	584.0	560.6	535.1	515.7	493.3	473.9	456.6
137.5°	711.4	680.8	656.4	642.1	630.9	607.5	584.0	563.6	542.2	522.9	504.5
140°	749.1	720.6	694.1	682.9	669.6	649.3	627.8	610.5	590.1	569.8	553.4
142.5°	785.8	758.3	735.9	721.6	711.4	690.0	669.6	655.4	638.0	616.6	601.3
145°	818.4	793.0	772.6	760.3	747.1	727.7	709.4	696.1	681.9	662.5	647.2
147.5°	852.1	827.6	806.2	797.0	784.8	766.5	750.2	736.9	726.7	707.3	693.1
150°	883.7	860.2	838.8	829.7	819.5	802.1	786.8	775.6	766.5	749.1	735.9
152.5°	913.2	889.8	871.4	862.3	852.1	836.8	821.5	810.3	805.2	787.9	774.6
155°	938.7	917.3	901.0	893.9	883.7	867.4	854.1	843.9	838.8	824.6	813.3
157.5°	963.2	941.8	927.5	921.4	912.2	896.9	885.7	874.5	871.4	860.2	848.0
160°	984.6	966.2	954.0	947.9	939.7	924.4	914.3	905.1	902.0	893.9	882.7
162.5°	1003.9	987.6	977.4	970.3	963.2	952.0	940.8	932.6	930.6	925.5	913.2
165°	1022.3	1007.0	996.8	991.7	986.6	975.4	965.2	959.1	957.1	954.0	941.8
167.5°	1038.6	1024.3	1015.2	1012.1	1006.0	996.8	988.7	982.5	981.5	980.5	969.3
170°	1050.8	1038.6	1032.5	1027.4	1024.3	1016.2	1009.0	1003.9	1003.9	1005.0	993.8
172.5°	1062.0	1051.8	1045.7	1042.7	1039.6	1032.5	1027.4	1022.3	1024.3	1026.4	1017.2
175°	1070.2	1062.0	1056.9	1054.9	1052.9	1046.8	1042.7	1040.6	1042.7	1046.8	1037.6
177.5°	1076.3	1070.2	1067.1	1066.1	1064.1	1060.0	1058.0	1055.9	1060.0	1065.1	1056.9
180°	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3



TEST NUMBER: P303217

CATALOG NUMBER: CTW-F-7525-40L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4
2.5°	394.4	394.4	393.4	393.4	392.4	391.4	390.4	390.4
5°	392.4	391.4	391.4	391.4	390.4	390.4	389.3	389.3
7.5°	388.3	388.3	388.3	387.3	388.3	387.3	387.3	387.3
10°	384.3	383.2	383.2	383.2	383.2	382.2	382.2	383.2
12.5°	379.2	378.1	377.1	377.1	377.1	377.1	377.1	378.1
15°	372.0	372.0	372.0	371.0	371.0	371.0	371.0	372.0
17.5°	363.9	362.8	362.8	362.8	362.8	362.8	362.8	362.8
20°	354.7	353.7	353.7	352.7	352.7	352.7	352.7	353.7
22.5°	345.5	343.5	343.5	342.5	343.5	343.5	342.5	343.5
25°	334.3	333.3	333.3	332.3	332.3	331.3	331.3	332.3
27.5°	324.1	323.1	322.1	322.1	321.1	320.0	320.0	321.1
30°	312.9	311.9	310.9	309.8	309.8	308.8	308.8	309.8
32.5°	300.7	299.7	298.6	298.6	297.6	296.6	296.6	297.6
35°	288.4	287.4	286.4	286.4	285.4	284.4	284.4	285.4
37.5°	276.2	274.2	274.2	274.2	273.2	272.1	271.1	272.1
40°	260.9	259.9	258.9	257.9	257.9	256.8	256.8	256.8
42.5°	247.7	246.7	246.7	245.6	244.6	243.6	243.6	244.6
45°	234.4	234.4	233.4	232.4	231.4	231.4	231.4	231.4
47.5°	221.2	220.2	220.2	220.2	218.1	218.1	217.1	218.1
50°	207.9	206.9	206.9	206.9	204.9	204.9	204.9	204.9
52.5°	194.7	193.7	193.7	192.6	192.6	191.6	190.6	191.6
55°	180.4	180.4	179.4	179.4	178.4	177.3	177.3	178.4
57.5°	167.2	166.1	166.1	166.1	165.1	164.1	164.1	165.1
60°	152.9	152.9	152.9	151.9	150.8	150.8	150.8	150.8
62.5°	139.6	138.6	138.6	138.6	138.6	137.6	136.6	136.6
65°	125.4	124.3	124.3	124.3	123.3	124.3	123.3	123.3
67.5°	111.1	111.1	111.1	110.1	110.1	110.1	109.1	109.1
70°	97.8	96.8	97.8	96.8	96.8	96.8	95.8	95.8
72.5°	84.6	83.6	83.6	82.6	83.6	82.6	82.6	81.5
75°	70.3	70.3	69.3	69.3	69.3	69.3	68.3	68.3
77.5°	57.1	57.1	56.1	56.1	56.1	55.0	55.0	54.0
80°	42.8	42.8	42.8	41.8	41.8	41.8	41.8	40.8
82.5°	29.6	29.6	29.6	28.5	28.5	27.5	27.5	26.5
85°	16.3	16.3	16.3	15.3	15.3	15.3	15.3	14.3
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
90°	6.1	7.1	6.1	7.1	8.2	8.2	8.2	9.2
92.5°	18.3	18.3	18.3	19.4	19.4	18.3	18.3	18.3
95°	40.8	40.8	40.8	40.8	40.8	39.8	39.8	39.8
97.5°	67.3	67.3	67.3	68.3	67.3	65.2	65.2	65.2
100°	80.5	82.6	83.6	84.6	85.6	86.6	86.6	86.6
102.5°	92.8	93.8	94.8	95.8	96.8	96.8	96.8	96.8
105°	104.0	105.0	105.0	106.0	109.1	111.1	112.1	112.1
107.5°	124.3	124.3	124.3	125.4	125.4	125.4	125.4	125.4
110°	158.0	152.9	151.9	147.8	148.8	147.8	147.8	147.8



TEST NUMBER: P303217

CATALOG NUMBER: CTW-F-7525-40L840-UNV-STD-4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	179.4	182.4	183.5	184.5	184.5	183.5	181.4	180.4
115°	195.7	198.8	200.8	200.8	203.8	205.9	205.9	205.9
117.5°	211.0	214.0	215.1	217.1	219.1	221.2	222.2	222.2
120°	227.3	230.3	230.3	232.4	233.4	235.4	236.5	236.5
122.5°	245.6	247.7	247.7	247.7	249.7	249.7	250.7	250.7
125°	273.2	271.1	270.1	269.1	269.1	268.1	269.1	268.1
127.5°	304.8	299.7	296.6	293.5	291.5	288.4	288.4	287.4
130°	343.5	337.4	330.2	327.2	322.1	319.0	317.0	314.9
132.5°	390.4	382.2	375.1	370.0	362.8	356.7	353.7	351.6
135°	441.3	428.1	419.9	416.9	408.7	401.6	399.5	397.5
137.5°	489.2	477.0	469.9	466.8	458.7	451.5	448.5	446.4
140°	536.1	523.9	515.7	514.7	506.6	500.4	498.4	496.4
142.5°	584.0	573.8	564.7	561.6	554.5	550.4	546.3	545.3
145°	630.9	619.7	611.5	609.5	602.4	597.3	594.2	592.2
147.5°	677.8	667.6	659.4	657.4	650.3	646.2	642.1	640.1
150°	722.6	710.4	705.3	703.3	696.1	693.1	689.0	687.0
152.5°	764.4	753.2	749.1	746.1	741.0	734.9	733.8	731.8
155°	802.1	791.9	788.9	785.8	780.7	777.7	776.7	775.6
157.5°	839.8	830.7	826.6	823.5	819.5	816.4	815.4	816.4
160°	876.5	867.4	864.3	862.3	856.2	854.1	854.1	854.1
162.5°	909.2	902.0	899.0	896.9	893.9	890.8	888.8	889.8
165°	938.7	932.6	930.6	927.5	924.4	923.4	922.4	922.4
167.5°	966.2	960.1	958.1	955.0	954.0	952.0	950.9	953.0
170°	992.7	986.6	985.6	982.5	980.5	979.5	977.4	980.5
172.5°	1016.2	1012.1	1010.1	1008.0	1008.0	1007.0	1006.0	1008.0
175°	1037.6	1034.5	1032.5	1029.4	1030.4	1029.4	1029.4	1031.5
177.5°	1058.0	1055.9	1053.9	1052.9	1051.8	1049.8	1047.8	1048.8
180°	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3	1074.3

(END OF REPORT)