

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: P303195

Luminaire Tested: **CTW-F-7525-20L840-UNV-STD-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-7525-20L840-UNV-STD-8
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
75% UPLIGHT, 25% DOWNLIGHT, 2000 LUMEN PACKAGE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

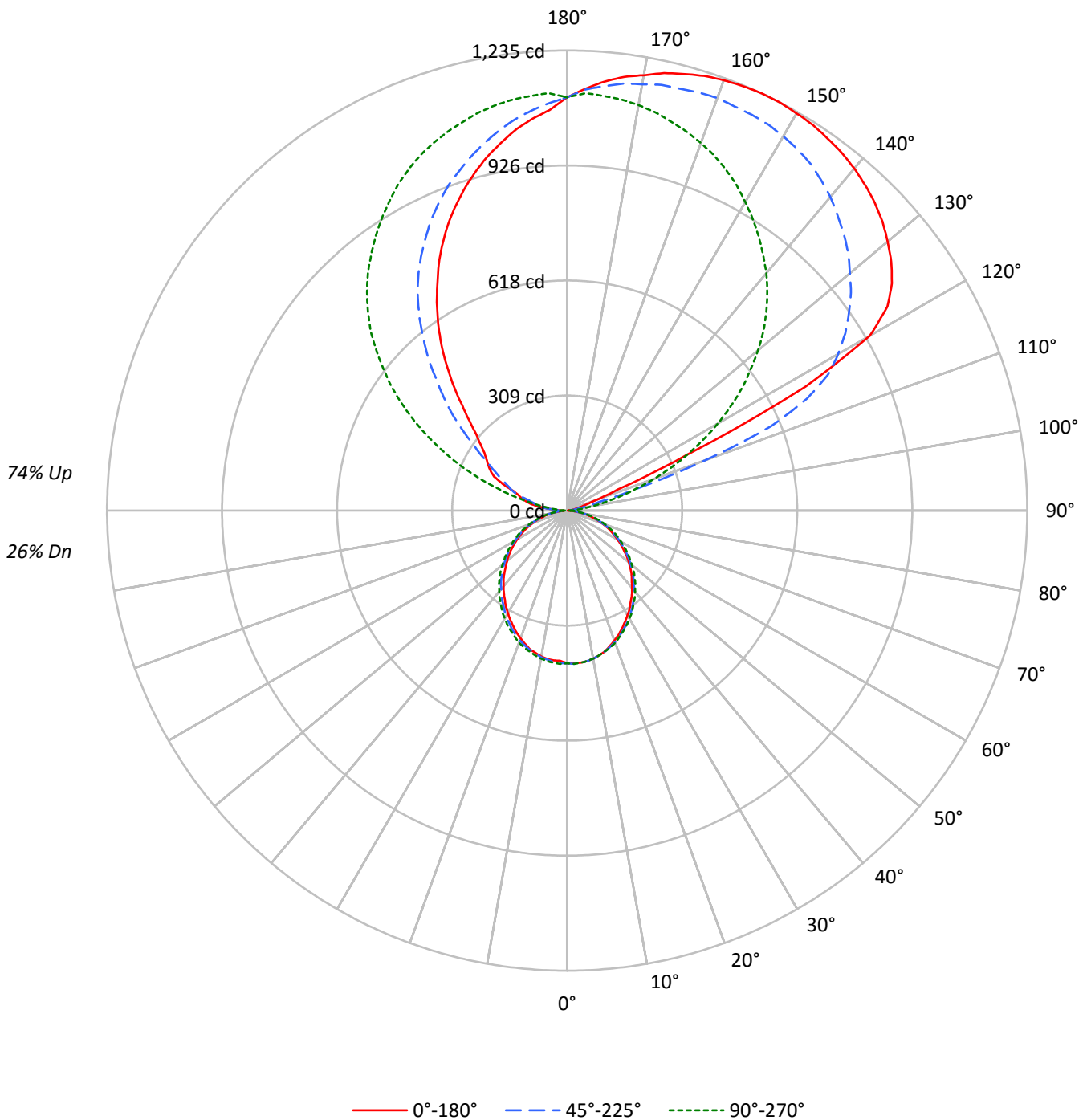
Lumens per Lamp: N/A
Luminaire Lumens: 4231.2 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.32
Luminous Opening: Rectangular (W 8' x L: 0.12' x H: 0')
CIE Type: Semi-Indirect

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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26				
1	92	88	84	81	82	79	76	73	61	59	57	45	43	42	30	29	28	22				
2	84	77	71	66	75	69	64	59	53	50	47	39	37	35	26	25	24	18				
3	76	67	60	55	68	60	54	50	47	43	39	35	32	30	23	22	20	15				
4	70	59	52	46	62	53	47	42	42	37	33	31	28	25	21	19	17	13				
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	19	17	15	11				
6	59	47	39	34	52	42	36	31	33	28	25	25	21	19	17	15	13	10				
7	54	42	35	29	48	38	32	27	30	25	22	22	19	17	15	13	12	9				
8	50	38	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8				
9	47	35	28	23	41	31	25	21	25	20	17	19	15	13	13	11	9	7				
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4410	4410	4410
5°	4427	4427	4361
10°	4411	4411	4345
15°	4362	4362	4294
20°	4250	4320	4180
25°	4140	4236	4068
30°	4028	4155	3952
35°	3911	4071	3830
40°	3809	3981	3724
45°	3723	3909	3631
50°	3619	3790	3517
55°	3481	3710	3444
60°	3380	3599	3335
65°	3270	3530	3219
70°	3144	3399	3078
75°	2882	3223	2882
80°	2529	3031	2529
85°	1766	2766	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	0.9
10°-20°	109.4	2.6
20°-30°	161.5	3.8
30°-40°	189.5	4.5
40°-50°	192.1	4.5
50°-60°	171.3	4.0
60°-70°	131.4	3.1
70°-80°	77.9	1.8
80°-90°	22.0	0.5
90°-100°	33.2	0.8
100°-110°	135.3	3.2
110°-120°	379.0	9.0
120°-130°	552.7	13.1
130°-140°	595.3	14.1
140°-150°	567.1	13.4
150°-160°	465.5	11.0
160°-170°	303.9	7.2
170°-180°	105.4	2.5
0°-30°	309.6	7.3
0°-40°	499.2	11.8
0°-60°	862.6	20.4
0°-90°	1093.8	25.9
90°-120°	547.5	12.9
90°-150°	2262.6	53.5
90°-180°	3137.0	74.1
0°-180°	4231.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	410	410	410	410	410	
5°	410	410	410	408	404	39
15°	391	391	391	387	385	110
25°	349	355	357	351	342	161
35°	298	308	310	302	292	187
45°	245	251	257	249	238	188
55°	186	192	198	192	184	167
65°	128	132	139	132	126	127
75°	69	73	78	73	69	73
85°	14	18	22	18	16	17
90°	2	2	2	8	12	2
95°	8	10	24	45	45	9
105°	37	90	147	106	126	43
115°	359	709	357	190	216	424
125°	1064	923	573	306	271	943
135°	1168	1050	756	495	398	902
145°	1219	1138	897	699	601	765
155°	1235	1172	1009	862	791	571
165°	1213	1172	1080	987	944	344
175°	1156	1144	1117	1078	1056	111
180°	1109	1109	1109	1109	1109	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	411.8	411.8
5°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	407.7	409.7	409.7	409.7
7.5°	407.7	407.7	407.7	407.7	407.7	407.7	405.7	405.7	405.7	407.7	407.7
10°	403.6	403.6	403.6	401.6	401.6	403.6	401.6	401.6	403.6	403.6	403.6
12.5°	397.5	397.5	397.5	397.5	397.5	397.5	397.5	395.5	397.5	399.5	397.5
15°	391.4	391.4	391.4	391.4	391.4	391.4	391.4	389.3	391.4	393.4	391.4
17.5°	381.2	381.2	381.2	381.2	383.2	383.2	383.2	381.2	383.2	385.3	383.2
20°	371.0	371.0	371.0	373.0	373.0	373.0	373.0	373.0	373.0	375.1	375.1
22.5°	360.8	360.8	360.8	360.8	362.8	362.8	362.8	360.8	362.8	364.9	364.9
25°	348.6	348.6	348.6	348.6	350.6	350.6	350.6	350.6	352.7	354.7	354.7
27.5°	336.3	336.3	336.3	338.4	340.4	340.4	340.4	340.4	340.4	342.5	344.5
30°	324.1	324.1	324.1	326.2	326.2	328.2	328.2	328.2	328.2	330.2	332.3
32.5°	311.9	311.9	311.9	313.9	313.9	313.9	316.0	316.0	316.0	318.0	320.0
35°	297.6	299.7	299.7	299.7	301.7	301.7	301.7	301.7	303.7	305.8	307.8
37.5°	285.4	285.4	285.4	285.4	287.4	287.4	287.4	289.5	289.5	291.5	293.5
40°	271.1	271.1	271.1	273.2	273.2	273.2	275.2	275.2	277.2	279.3	279.3
42.5°	256.8	256.8	256.8	258.9	258.9	258.9	260.9	263.0	263.0	265.0	265.0
45°	244.6	242.6	244.6	244.6	244.6	244.6	246.7	246.7	248.7	250.7	250.7
47.5°	230.3	228.3	230.3	230.3	230.3	230.3	232.4	232.4	234.4	234.4	236.5
50°	216.1	214.0	216.1	216.1	216.1	216.1	218.1	218.1	220.2	220.2	222.2
52.5°	201.8	201.8	201.8	201.8	201.8	201.8	201.8	203.8	205.9	205.9	207.9
55°	185.5	185.5	187.5	187.5	187.5	187.5	187.5	189.6	189.6	191.6	191.6
57.5°	171.2	171.2	171.2	173.3	173.3	173.3	173.3	175.3	175.3	177.3	177.3
60°	157.0	157.0	157.0	157.0	159.0	159.0	159.0	159.0	161.0	163.1	163.1
62.5°	142.7	142.7	142.7	142.7	144.7	144.7	144.7	144.7	144.7	146.8	146.8
65°	128.4	128.4	128.4	128.4	128.4	128.4	128.4	130.5	130.5	132.5	132.5
67.5°	114.2	112.1	114.2	114.2	114.2	114.2	114.2	116.2	116.2	116.2	118.2
70°	99.9	97.8	97.8	97.8	99.9	99.9	99.9	101.9	99.9	101.9	101.9
72.5°	83.6	83.6	83.6	83.6	83.6	85.6	85.6	85.6	85.6	87.7	87.7
75°	69.3	69.3	69.3	69.3	69.3	69.3	71.3	71.3	71.3	73.4	73.4
77.5°	55.0	55.0	55.0	55.0	55.0	55.0	57.1	57.1	57.1	57.1	59.1
80°	40.8	40.8	40.8	40.8	40.8	40.8	42.8	42.8	42.8	42.8	44.8
82.5°	26.5	26.5	26.5	28.5	26.5	28.5	28.5	28.5	28.5	28.5	30.6
85°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	16.3	16.3	18.3
87.5°	4.1	2.0	2.0	4.1	2.0	4.1	4.1	4.1	4.1	4.1	4.1
90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	10.2	10.2
97.5°	12.2	12.2	12.2	12.2	12.2	14.3	14.3	14.3	14.3	16.3	18.3
100°	18.3	18.3	18.3	18.3	20.4	20.4	20.4	22.4	22.4	26.5	28.5
102.5°	26.5	26.5	26.5	26.5	28.5	28.5	30.6	32.6	34.7	40.8	51.0
105°	36.7	36.7	36.7	38.7	40.8	40.8	42.8	46.9	55.0	67.3	89.7
107.5°	51.0	51.0	53.0	55.0	59.1	61.2	65.2	79.5	97.8	130.5	195.7
110°	77.5	77.5	81.5	87.7	99.9	108.0	122.3	161.0	218.1	301.7	391.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	146.8	148.8	165.1	177.3	218.1	248.7	291.5	377.1	464.8	540.2	593.2
115°	358.8	364.9	405.7	428.1	519.8	538.2	585.0	666.6	705.3	715.5	709.4
117.5°	721.6	723.7	752.2	770.5	805.2	817.4	821.5	835.8	827.6	811.3	788.9
120°	937.7	933.6	937.7	931.6	933.6	929.5	923.4	911.2	890.8	868.4	839.8
122.5°	1019.2	1017.2	1013.1	1000.9	994.8	986.6	976.4	962.2	941.8	913.2	884.7
125°	1064.1	1062.0	1058.0	1045.7	1035.5	1027.4	1019.2	1002.9	978.5	954.0	923.4
127.5°	1096.7	1094.7	1088.5	1080.4	1068.2	1060.0	1051.8	1035.5	1011.1	986.6	960.1
130°	1123.2	1121.2	1115.0	1108.9	1096.7	1090.6	1082.4	1066.1	1041.7	1017.2	990.7
132.5°	1147.7	1145.6	1141.5	1135.4	1123.2	1115.0	1108.9	1094.7	1068.2	1043.7	1023.3
135°	1168.0	1164.0	1164.0	1155.8	1143.6	1137.5	1131.3	1117.1	1092.6	1070.2	1049.8
137.5°	1184.3	1182.3	1178.2	1172.1	1161.9	1155.8	1149.7	1135.4	1115.0	1092.6	1074.3
140°	1198.6	1196.6	1194.5	1188.4	1178.2	1172.1	1168.0	1151.7	1133.4	1115.0	1098.7
142.5°	1210.8	1208.8	1204.7	1200.7	1190.5	1186.4	1182.3	1168.0	1147.7	1133.4	1119.1
145°	1219.0	1219.0	1214.9	1210.8	1202.7	1198.6	1194.5	1178.2	1161.9	1149.7	1137.5
147.5°	1227.2	1227.2	1221.0	1219.0	1212.9	1208.8	1204.7	1188.4	1172.1	1161.9	1149.7
150°	1231.2	1231.2	1227.2	1223.1	1217.0	1214.9	1210.8	1196.6	1182.3	1174.2	1159.9
152.5°	1235.3	1235.3	1231.2	1227.2	1221.0	1219.0	1212.9	1202.7	1188.4	1180.3	1168.0
155°	1235.3	1237.3	1231.2	1227.2	1223.1	1221.0	1214.9	1202.7	1192.5	1186.4	1172.1
157.5°	1233.3	1233.3	1231.2	1227.2	1221.0	1219.0	1212.9	1200.7	1192.5	1190.5	1174.2
160°	1229.2	1229.2	1227.2	1221.0	1219.0	1214.9	1208.8	1200.7	1194.5	1190.5	1178.2
162.5°	1223.1	1221.0	1219.0	1214.9	1212.9	1210.8	1206.8	1196.6	1190.5	1188.4	1176.2
165°	1212.9	1210.8	1208.8	1206.8	1204.7	1202.7	1198.6	1188.4	1186.4	1184.3	1172.1
167.5°	1202.7	1198.6	1196.6	1192.5	1192.5	1188.4	1186.4	1180.3	1178.2	1178.2	1170.1
170°	1186.4	1184.3	1182.3	1180.3	1180.3	1178.2	1176.2	1168.0	1168.0	1170.1	1161.9
172.5°	1174.2	1170.1	1170.1	1168.0	1168.0	1166.0	1164.0	1157.8	1157.8	1159.9	1155.8
175°	1155.8	1153.8	1151.7	1149.7	1149.7	1149.7	1147.7	1143.6	1145.6	1147.7	1143.6
177.5°	1133.4	1127.3	1129.3	1129.3	1133.4	1131.3	1131.3	1127.3	1129.3	1133.4	1131.3
180°	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	407.7	407.7	405.7	407.7	407.7	407.7	409.7	409.7	411.8	411.8	411.8
5°	407.7	405.7	405.7	405.7	407.7	407.7	407.7	409.7	409.7	409.7	409.7
7.5°	403.6	403.6	403.6	403.6	403.6	405.7	405.7	405.7	407.7	407.7	405.7
10°	401.6	399.5	399.5	399.5	401.6	401.6	401.6	403.6	403.6	403.6	401.6
12.5°	395.5	395.5	393.4	395.5	395.5	395.5	395.5	397.5	397.5	397.5	397.5
15°	389.3	389.3	387.3	389.3	389.3	389.3	389.3	391.4	393.4	391.4	391.4
17.5°	381.2	381.2	381.2	381.2	381.2	383.2	383.2	385.3	385.3	385.3	383.2
20°	373.0	373.0	373.0	373.0	373.0	373.0	375.1	375.1	377.1	377.1	375.1
22.5°	362.8	362.8	362.8	362.8	364.9	364.9	364.9	366.9	366.9	366.9	364.9
25°	354.7	352.7	352.7	352.7	354.7	354.7	354.7	356.7	356.7	356.7	356.7
27.5°	342.5	342.5	340.4	342.5	342.5	344.5	344.5	346.5	346.5	346.5	344.5
30°	332.3	330.2	330.2	330.2	332.3	332.3	334.3	334.3	336.3	334.3	334.3
32.5°	320.0	320.0	318.0	320.0	320.0	320.0	322.1	322.1	324.1	324.1	322.1
35°	307.8	305.8	305.8	307.8	307.8	307.8	309.8	309.8	311.9	309.8	309.8
37.5°	295.6	293.5	293.5	293.5	293.5	295.6	297.6	297.6	297.6	297.6	297.6
40°	281.3	281.3	281.3	281.3	281.3	281.3	283.3	283.3	285.4	283.3	283.3
42.5°	269.1	267.0	267.0	267.0	267.0	269.1	269.1	271.1	271.1	271.1	269.1
45°	254.8	254.8	254.8	252.8	252.8	254.8	256.8	256.8	256.8	256.8	254.8
47.5°	240.5	238.5	240.5	240.5	238.5	240.5	242.6	242.6	242.6	242.6	240.5
50°	224.2	224.2	224.2	226.3	224.2	226.3	228.3	228.3	228.3	226.3	226.3
52.5°	207.9	210.0	212.0	212.0	210.0	212.0	212.0	212.0	212.0	212.0	212.0
55°	193.7	195.7	195.7	195.7	195.7	197.7	197.7	197.7	197.7	197.7	197.7
57.5°	179.4	179.4	181.4	181.4	181.4	181.4	181.4	183.5	181.4	181.4	181.4
60°	163.1	165.1	167.2	167.2	167.2	167.2	167.2	169.2	167.2	167.2	167.2
62.5°	148.8	148.8	150.8	152.9	150.8	152.9	152.9	152.9	152.9	152.9	152.9
65°	134.5	134.5	136.6	136.6	136.6	136.6	136.6	138.6	136.6	138.6	138.6
67.5°	118.2	120.3	120.3	122.3	122.3	122.3	122.3	124.3	124.3	122.3	122.3
70°	104.0	104.0	106.0	106.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
72.5°	87.7	89.7	89.7	91.7	91.7	91.7	91.7	93.8	93.8	93.8	93.8
75°	73.4	75.4	75.4	77.5	75.4	77.5	77.5	77.5	79.5	77.5	79.5
77.5°	59.1	61.2	61.2	61.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
80°	44.8	46.9	46.9	46.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
82.5°	30.6	32.6	32.6	32.6	32.6	34.7	34.7	34.7	34.7	34.7	34.7
85°	18.3	18.3	18.3	20.4	20.4	20.4	20.4	22.4	22.4	22.4	22.4
87.5°	6.1	6.1	6.1	8.2	8.2	8.2	8.2	8.2	8.2	10.2	10.2
90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
92.5°	6.1	6.1	6.1	6.1	8.2	8.2	12.2	12.2	10.2	10.2	10.2
95°	12.2	12.2	16.3	20.4	24.5	28.5	32.6	32.6	28.5	24.5	22.4
97.5°	20.4	26.5	34.7	46.9	53.0	61.2	67.3	61.2	53.0	44.8	40.8
100°	36.7	48.9	69.3	93.8	104.0	112.1	114.2	101.9	85.6	69.3	63.2
102.5°	69.3	93.8	136.6	169.2	177.3	183.5	173.3	150.8	128.4	104.0	91.7
105°	132.5	187.5	246.7	263.0	267.0	263.0	240.5	207.9	177.3	146.8	128.4
107.5°	271.1	334.3	371.0	362.8	352.7	340.4	307.8	269.1	232.4	193.7	171.2
110°	450.5	477.0	475.0	446.4	426.0	407.7	373.0	330.2	287.4	246.7	218.1



TEST NUMBER: P303195

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	599.3	585.0	556.5	515.7	493.3	470.9	434.2	391.4	344.5	301.7	271.1
115°	689.0	658.4	619.7	583.0	560.6	536.1	493.3	448.5	401.6	356.7	324.1
117.5°	752.2	717.5	680.8	640.1	617.7	595.2	554.5	503.5	456.6	411.8	377.1
120°	803.2	766.5	727.7	691.0	670.7	650.3	607.5	560.6	509.6	466.8	428.1
122.5°	850.0	813.3	778.7	740.0	717.5	699.2	654.3	609.5	564.7	519.8	479.0
125°	892.8	860.2	819.5	782.8	764.4	744.0	701.2	656.4	615.6	572.8	534.1
127.5°	931.6	899.0	862.3	821.5	803.2	784.8	740.0	699.2	662.5	619.7	583.0
130°	966.2	933.6	899.0	860.2	843.9	823.5	782.8	742.0	707.3	668.6	629.9
132.5°	998.8	966.2	931.6	894.9	876.5	858.2	823.5	782.8	750.2	715.5	676.8
135°	1027.4	994.8	960.1	923.4	907.1	890.8	856.2	821.5	786.8	756.3	719.6
137.5°	1051.8	1021.3	986.6	952.0	937.7	921.4	888.8	856.2	825.6	795.0	760.3
140°	1074.3	1043.7	1009.0	976.4	962.2	949.9	917.3	888.8	862.3	831.7	799.1
142.5°	1094.7	1062.0	1029.4	998.8	986.6	974.4	945.8	919.3	894.9	864.3	835.8
145°	1111.0	1078.3	1047.8	1019.2	1011.1	996.8	970.3	947.9	923.4	896.9	870.4
147.5°	1127.3	1096.7	1066.1	1039.6	1031.5	1019.2	996.8	974.4	952.0	927.5	903.0
150°	1137.5	1108.9	1082.4	1060.0	1051.8	1039.6	1017.2	998.8	980.5	956.0	931.6
152.5°	1145.6	1119.1	1094.7	1076.3	1070.2	1060.0	1039.6	1025.3	1005.0	984.6	962.2
155°	1151.7	1127.3	1106.9	1090.6	1084.5	1078.3	1058.0	1045.7	1027.4	1009.0	988.7
157.5°	1155.8	1133.4	1115.0	1102.8	1096.7	1090.6	1072.2	1062.0	1047.8	1031.5	1011.1
160°	1157.8	1137.5	1123.2	1113.0	1106.9	1100.8	1088.5	1076.3	1062.0	1049.8	1033.5
162.5°	1157.8	1141.5	1127.3	1119.1	1115.0	1111.0	1098.7	1088.5	1078.3	1066.1	1051.8
165°	1157.8	1143.6	1131.3	1125.2	1121.2	1119.1	1106.9	1100.8	1090.6	1080.4	1068.2
167.5°	1153.8	1141.5	1133.4	1129.3	1125.2	1123.2	1115.0	1106.9	1100.8	1094.7	1082.4
170°	1149.7	1139.5	1131.3	1129.3	1127.3	1125.2	1119.1	1115.0	1111.0	1104.8	1094.7
172.5°	1143.6	1135.4	1129.3	1127.3	1127.3	1125.2	1121.2	1119.1	1117.1	1113.0	1104.8
175°	1133.4	1127.3	1121.2	1123.2	1123.2	1123.2	1119.1	1121.2	1119.1	1117.1	1111.0
177.5°	1121.2	1117.1	1115.0	1117.1	1117.1	1117.1	1117.1	1119.1	1121.2	1121.2	1115.0
180°	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9



TEST NUMBER: P303195

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	407.7	405.7	405.7	405.7	407.7	407.7	407.7	407.7	409.7	409.7	409.7
5°	405.7	403.6	403.6	403.6	405.7	405.7	405.7	405.7	407.7	407.7	407.7
7.5°	403.6	401.6	401.6	401.6	401.6	403.6	403.6	401.6	403.6	405.7	403.6
10°	399.5	397.5	397.5	397.5	397.5	399.5	399.5	397.5	399.5	399.5	399.5
12.5°	393.4	391.4	391.4	391.4	393.4	393.4	393.4	391.4	393.4	395.5	393.4
15°	387.3	385.3	385.3	385.3	385.3	387.3	387.3	385.3	387.3	387.3	385.3
17.5°	381.2	379.2	377.1	377.1	379.2	379.2	379.2	377.1	379.2	379.2	377.1
20°	371.0	369.0	369.0	369.0	371.0	371.0	369.0	369.0	371.0	369.0	369.0
22.5°	362.8	360.8	360.8	360.8	360.8	360.8	360.8	358.8	360.8	358.8	358.8
25°	352.7	350.6	350.6	350.6	350.6	350.6	348.6	348.6	350.6	348.6	346.5
27.5°	342.5	340.4	340.4	340.4	340.4	340.4	338.4	338.4	338.4	336.3	336.3
30°	330.2	330.2	328.2	328.2	328.2	328.2	326.2	326.2	328.2	326.2	324.1
32.5°	320.0	318.0	318.0	318.0	318.0	316.0	313.9	313.9	313.9	313.9	311.9
35°	305.8	305.8	305.8	305.8	303.7	303.7	301.7	303.7	301.7	299.7	299.7
37.5°	293.5	293.5	291.5	291.5	291.5	291.5	289.5	291.5	289.5	287.4	285.4
40°	281.3	279.3	279.3	279.3	279.3	277.2	277.2	277.2	275.2	273.2	273.2
42.5°	267.0	267.0	265.0	267.0	265.0	265.0	263.0	265.0	263.0	260.9	258.9
45°	252.8	252.8	252.8	252.8	252.8	250.7	250.7	250.7	248.7	246.7	244.6
47.5°	238.5	238.5	238.5	240.5	238.5	236.5	236.5	236.5	234.4	232.4	230.3
50°	224.2	224.2	224.2	224.2	224.2	222.2	222.2	220.2	220.2	218.1	216.1
52.5°	210.0	210.0	210.0	212.0	210.0	207.9	207.9	207.9	205.9	203.8	201.8
55°	195.7	195.7	197.7	195.7	195.7	195.7	193.7	193.7	191.6	189.6	187.5
57.5°	181.4	181.4	181.4	181.4	181.4	179.4	179.4	179.4	177.3	175.3	173.3
60°	167.2	167.2	167.2	167.2	165.1	165.1	165.1	163.1	161.0	159.0	159.0
62.5°	150.8	152.9	152.9	150.8	150.8	150.8	148.8	148.8	146.8	146.8	144.7
65°	136.6	138.6	136.6	136.6	136.6	136.6	134.5	134.5	132.5	130.5	130.5
67.5°	122.3	122.3	122.3	122.3	122.3	120.3	120.3	118.2	118.2	116.2	116.2
70°	108.0	108.0	106.0	106.0	108.0	106.0	104.0	104.0	104.0	101.9	101.9
72.5°	93.8	93.8	91.7	91.7	91.7	91.7	89.7	89.7	87.7	87.7	85.6
75°	77.5	77.5	77.5	77.5	77.5	75.4	75.4	75.4	73.4	73.4	71.3
77.5°	63.2	63.2	63.2	63.2	63.2	61.2	61.2	61.2	61.2	59.1	59.1
80°	48.9	48.9	48.9	48.9	48.9	46.9	46.9	46.9	44.8	44.8	42.8
82.5°	34.7	34.7	34.7	34.7	34.7	32.6	32.6	32.6	30.6	30.6	30.6
85°	22.4	20.4	20.4	20.4	20.4	20.4	18.3	18.3	18.3	18.3	16.3
87.5°	10.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	6.1	8.2
90°	2.0	4.1	4.1	6.1	6.1	6.1	6.1	8.2	8.2	8.2	8.2
92.5°	16.3	20.4	20.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
95°	26.5	30.6	38.7	40.8	42.8	46.9	46.9	46.9	44.8	44.8	44.8
97.5°	38.7	44.8	44.8	48.9	51.0	59.1	65.2	67.3	71.3	71.3	71.3
100°	59.1	57.1	63.2	67.3	67.3	67.3	71.3	79.5	83.6	87.7	89.7
102.5°	85.6	77.5	77.5	79.5	83.6	91.7	85.6	87.7	91.7	95.8	101.9
105°	114.2	106.0	99.9	97.8	99.9	106.0	112.1	110.1	106.0	108.0	112.1
107.5°	150.8	136.6	124.3	122.3	122.3	122.3	128.4	134.5	138.6	134.5	130.5
110°	193.7	171.2	159.0	148.8	146.8	144.7	144.7	148.8	157.0	163.1	165.1



TEST NUMBER: P303195

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	240.5	214.0	193.7	183.5	177.3	169.2	167.2	167.2	171.2	179.4	185.5
115°	289.5	260.9	234.4	224.2	214.0	199.8	193.7	189.6	189.6	193.7	199.8
117.5°	340.4	309.8	281.3	265.0	256.8	236.5	222.2	214.0	212.0	212.0	216.1
120°	391.4	362.8	330.2	311.9	301.7	279.3	258.9	242.6	236.5	234.4	232.4
122.5°	442.3	411.8	381.2	362.8	350.6	324.1	303.7	279.3	269.1	258.9	256.8
125°	493.3	462.7	430.1	415.8	399.5	371.0	348.6	324.1	305.8	291.5	281.3
127.5°	546.3	511.7	479.0	468.8	450.5	422.0	397.5	373.0	352.7	332.3	318.0
130°	593.2	564.7	534.1	517.8	501.5	472.9	444.4	419.9	401.6	381.2	362.8
132.5°	640.1	611.5	583.0	572.8	556.5	523.9	497.4	468.8	448.5	428.1	411.8
135°	682.9	654.3	627.8	617.7	603.4	574.8	550.4	521.8	495.3	477.0	460.7
137.5°	723.7	697.2	670.7	660.5	648.2	621.7	599.3	574.8	550.4	532.0	507.6
140°	764.4	737.9	713.5	703.3	691.0	666.6	642.1	623.8	599.3	581.0	562.6
142.5°	803.2	776.7	752.2	742.0	733.8	709.4	687.0	670.7	650.3	629.9	613.6
145°	839.8	811.3	790.9	780.7	772.6	750.2	729.8	715.5	699.2	678.8	662.5
147.5°	872.5	846.0	825.6	819.5	811.3	793.0	772.6	756.3	744.0	725.7	709.4
150°	903.0	878.6	860.2	854.1	848.0	827.6	809.3	795.0	784.8	768.5	752.2
152.5°	935.7	911.2	894.9	888.8	880.6	864.3	848.0	831.7	823.5	811.3	795.0
155°	962.2	941.8	925.5	919.3	911.2	899.0	880.6	868.4	862.3	848.0	833.7
157.5°	988.7	968.3	954.0	947.9	941.8	929.5	913.2	901.0	896.9	884.7	872.5
160°	1011.1	992.7	978.5	972.3	968.3	958.1	943.8	931.6	929.5	921.4	909.2
162.5°	1031.5	1013.1	1002.9	996.8	992.7	986.6	972.3	960.1	958.1	952.0	941.8
165°	1047.8	1031.5	1023.3	1019.2	1017.2	1011.1	998.8	986.6	986.6	982.5	970.3
167.5°	1066.1	1049.8	1041.7	1039.6	1037.6	1031.5	1023.3	1013.1	1013.1	1009.0	998.8
170°	1080.4	1066.1	1060.0	1058.0	1055.9	1051.8	1045.7	1035.5	1037.6	1033.5	1025.3
172.5°	1090.6	1080.4	1076.3	1072.2	1072.2	1070.2	1066.1	1058.0	1060.0	1058.0	1049.8
175°	1098.7	1088.5	1088.5	1084.5	1086.5	1086.5	1080.4	1074.3	1078.3	1080.4	1072.2
177.5°	1104.8	1096.7	1096.7	1096.7	1098.7	1098.7	1096.7	1090.6	1094.7	1098.7	1090.6
180°	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9



TEST NUMBER: P303195

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	409.7	409.7	409.7	407.7	409.7	405.7	403.6	403.6
5°	405.7	405.7	405.7	405.7	405.7	405.7	403.6	403.6
7.5°	403.6	403.6	401.6	401.6	403.6	403.6	401.6	401.6
10°	397.5	397.5	397.5	397.5	399.5	397.5	397.5	397.5
12.5°	393.4	391.4	391.4	391.4	393.4	391.4	391.4	391.4
15°	385.3	385.3	385.3	385.3	387.3	385.3	385.3	385.3
17.5°	377.1	377.1	377.1	377.1	379.2	377.1	375.1	375.1
20°	369.0	366.9	366.9	366.9	366.9	366.9	364.9	364.9
22.5°	356.7	356.7	356.7	356.7	356.7	354.7	354.7	354.7
25°	346.5	344.5	344.5	346.5	344.5	344.5	342.5	342.5
27.5°	334.3	334.3	334.3	334.3	334.3	332.3	330.2	330.2
30°	324.1	322.1	322.1	322.1	322.1	320.0	318.0	318.0
32.5°	311.9	309.8	309.8	309.8	309.8	305.8	305.8	305.8
35°	297.6	297.6	297.6	297.6	295.6	293.5	293.5	291.5
37.5°	285.4	283.3	283.3	283.3	281.3	281.3	279.3	279.3
40°	271.1	271.1	271.1	271.1	269.1	267.0	265.0	265.0
42.5°	256.8	256.8	256.8	256.8	254.8	252.8	252.8	252.8
45°	244.6	242.6	242.6	242.6	240.5	240.5	238.5	238.5
47.5°	230.3	230.3	228.3	228.3	228.3	226.3	224.2	224.2
50°	216.1	216.1	216.1	214.0	212.0	212.0	212.0	210.0
52.5°	201.8	201.8	201.8	199.8	199.8	197.7	197.7	197.7
55°	187.5	187.5	187.5	185.5	185.5	183.5	183.5	183.5
57.5°	173.3	173.3	173.3	171.2	171.2	169.2	169.2	169.2
60°	159.0	159.0	157.0	157.0	157.0	154.9	154.9	154.9
62.5°	144.7	142.7	142.7	142.7	142.7	140.7	140.7	140.7
65°	130.5	128.4	128.4	128.4	128.4	126.4	126.4	126.4
67.5°	116.2	114.2	114.2	114.2	114.2	112.1	112.1	112.1
70°	99.9	99.9	99.9	99.9	99.9	97.8	97.8	97.8
72.5°	85.6	85.6	85.6	85.6	83.6	83.6	83.6	83.6
75°	71.3	71.3	71.3	71.3	69.3	69.3	69.3	69.3
77.5°	57.1	57.1	57.1	57.1	57.1	55.0	55.0	57.1
80°	42.8	42.8	42.8	42.8	42.8	40.8	40.8	40.8
82.5°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	26.5
85°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
87.5°	6.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2
90°	8.2	10.2	10.2	10.2	10.2	12.2	12.2	12.2
92.5°	22.4	24.5	24.5	22.4	24.5	24.5	24.5	24.5
95°	42.8	44.8	44.8	42.8	44.8	44.8	44.8	44.8
97.5°	71.3	71.3	71.3	69.3	71.3	69.3	69.3	69.3
100°	91.7	91.7	93.8	93.8	95.8	95.8	93.8	95.8
102.5°	104.0	106.0	108.0	108.0	110.1	110.1	112.1	112.1
105°	114.2	116.2	118.2	118.2	122.3	124.3	126.4	126.4
107.5°	130.5	130.5	132.5	132.5	134.5	134.5	134.5	136.6
110°	163.1	157.0	154.9	154.9	152.9	152.9	152.9	152.9



TEST NUMBER: P303195

CATALOG NUMBER: CTW-F-7525-20L840-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	189.6	189.6	191.6	191.6	191.6	189.6	185.5	187.5
115°	205.9	210.0	210.0	212.0	212.0	214.0	214.0	216.1
117.5°	218.1	222.2	224.2	226.3	230.3	232.4	232.4	232.4
120°	234.4	236.5	238.5	238.5	240.5	242.6	244.6	244.6
122.5°	254.8	252.8	254.8	254.8	254.8	256.8	256.8	256.8
125°	277.2	275.2	273.2	273.2	271.1	271.1	271.1	271.1
127.5°	307.8	301.7	299.7	297.6	293.5	293.5	291.5	293.5
130°	348.6	338.4	334.3	330.2	322.1	322.1	318.0	318.0
132.5°	395.5	383.2	377.1	373.0	362.8	358.8	354.7	354.7
135°	446.4	434.2	426.0	422.0	409.7	405.7	401.6	397.5
137.5°	495.3	483.1	477.0	475.0	462.7	458.7	450.5	448.5
140°	548.3	536.1	530.0	525.9	511.7	505.5	501.5	499.4
142.5°	599.3	585.0	578.9	576.9	566.7	560.6	554.5	552.4
145°	648.2	634.0	627.8	627.8	615.6	611.5	605.4	601.3
147.5°	697.2	682.9	676.8	676.8	666.6	658.4	654.3	650.3
150°	742.0	729.8	723.7	723.7	713.5	705.3	699.2	697.2
152.5°	782.8	772.6	768.5	768.5	760.3	752.2	748.1	746.1
155°	823.5	815.4	809.3	809.3	803.2	795.0	793.0	790.9
157.5°	864.3	856.2	850.0	852.1	843.9	837.8	833.7	833.7
160°	901.0	894.9	888.8	888.8	884.7	878.6	870.4	872.5
162.5°	937.7	929.5	925.5	925.5	923.4	915.3	907.1	909.2
165°	964.2	960.1	958.1	958.1	956.0	949.9	943.8	943.8
167.5°	992.7	988.7	986.6	986.6	984.6	980.5	974.4	976.4
170°	1021.3	1017.2	1015.2	1013.1	1013.1	1009.0	1005.0	1005.0
172.5°	1047.8	1043.7	1041.7	1041.7	1043.7	1039.6	1033.5	1033.5
175°	1070.2	1068.2	1064.1	1064.1	1064.1	1060.0	1055.9	1055.9
177.5°	1090.6	1088.5	1088.5	1086.5	1088.5	1082.4	1076.3	1076.3
180°	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9	1108.9

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