

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: P303158

Luminaire Tested: **CTW-F-5050-40L940-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-5050-40L940-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 4000 LUMEN PACKAGE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

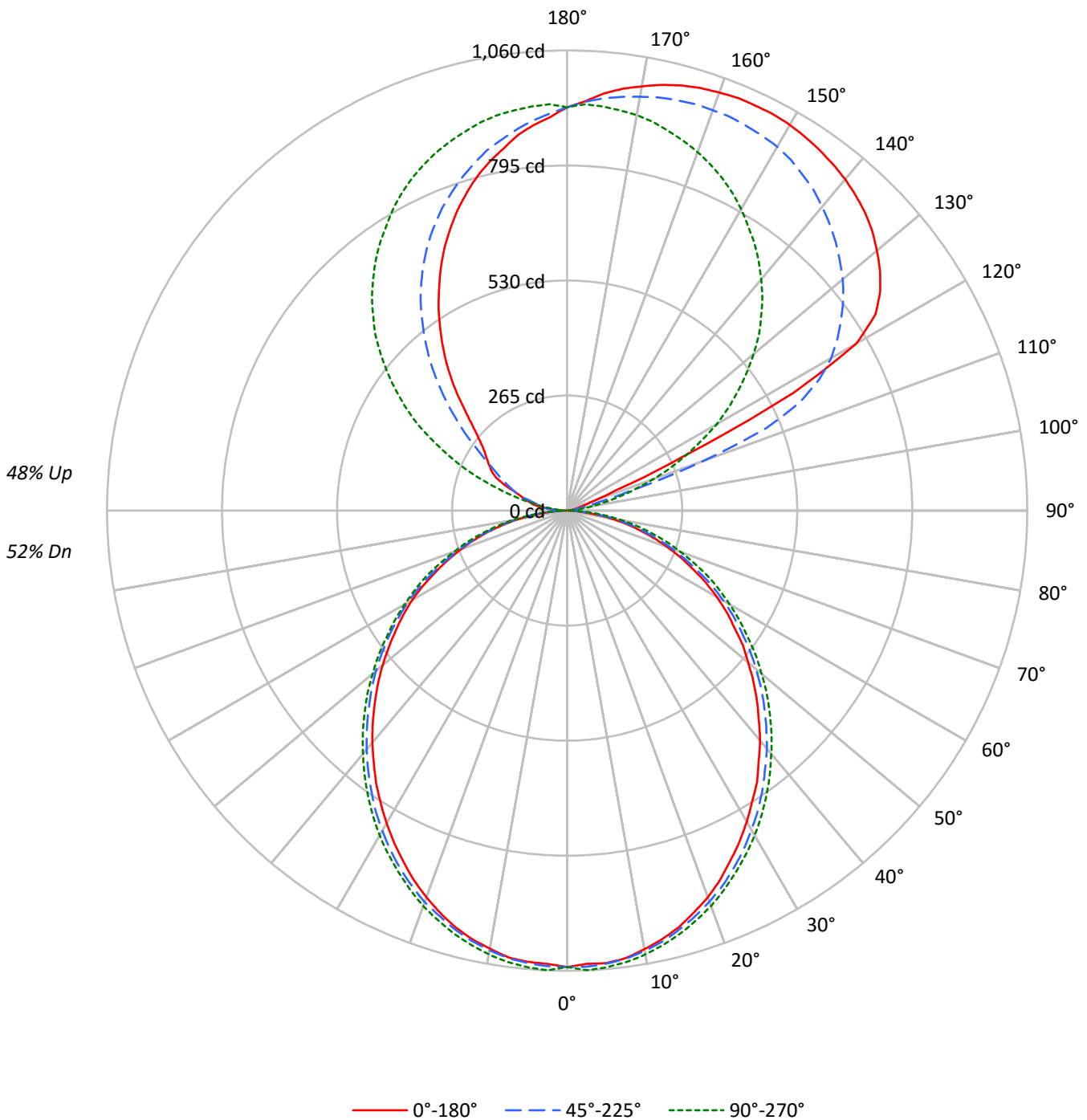
Lumens per Lamp: N/A
Luminaire Lumens: 5435.8 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 46.3
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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	94	90	86	90	87	83	80	74	71	69	62	60	58	51	50	48	43
2	89	82	75	70	82	76	70	66	64	60	57	54	51	49	45	42	41	36
3	81	72	64	58	75	67	60	55	57	52	48	48	44	41	39	37	34	30
4	74	63	55	49	68	59	52	46	50	45	41	42	38	35	35	32	30	26
5	68	56	48	42	63	53	45	40	45	39	35	38	34	30	32	28	26	23
6	63	51	42	37	58	47	40	34	41	35	30	34	30	27	29	25	23	20
7	58	46	38	32	54	43	35	30	37	31	27	31	27	23	26	23	20	18
8	54	41	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	23	43	33	26	21	28	23	19	24	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	15092	15092	15092
5°	15072	15209	15033
10°	14952	15129	14932
15°	14763	14983	14763
20°	14474	14804	14474
25°	14087	14558	14130
30°	13713	14318	13781
35°	13363	14025	13435
40°	12950	13708	13075
45°	12549	13398	12714
50°	12146	13050	12387
55°	11755	12701	12058
60°	11430	12400	11817
65°	10864	12147	11322
70°	10310	11670	10931
75°	9504	11229	10331
80°	8141	10488	9372
85°	5105	9106	7114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.8
10°-20°	281.0	5.2
20°-30°	416.0	7.7
30°-40°	488.3	9.0
40°-50°	495.0	9.1
50°-60°	441.5	8.1
60°-70°	336.9	6.2
70°-80°	199.0	3.7
80°-90°	53.6	1.0
90°-100°	27.0	0.5
100°-110°	112.6	2.1
110°-120°	317.5	5.8
120°-130°	462.9	8.5
130°-140°	498.6	9.2
140°-150°	474.4	8.7
150°-160°	389.4	7.2
160°-170°	254.6	4.7
170°-180°	88.2	1.6
0°-30°	796.2	14.6
0°-40°	1284.5	23.6
0°-60°	2221.1	40.9
0°-90°	2810.7	51.7
90°-120°	457.1	8.4
90°-150°	1893.0	34.8
90°-180°	2625.0	48.3
0°-180°	5435.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1052	1052	1052	1052	1052	
5°	1046	1048	1056	1046	1044	99
15°	994	999	1008	999	994	280
25°	890	908	919	910	892	410
35°	763	784	800	787	767	476
45°	618	643	660	647	626	477
55°	470	491	508	500	482	422
65°	320	335	358	343	333	318
75°	171	182	202	192	186	181
85°	31	39	55	49	43	40
90°	1	1	1	5	8	1
95°	7	8	20	38	35	7
105°	30	76	124	89	101	35
115°	294	591	302	162	181	347
125°	880	771	481	260	231	780
135°	971	875	632	424	339	749
145°	1014	945	752	589	509	636
155°	1029	977	845	724	668	476
165°	1014	979	904	828	798	287
175°	964	953	934	902	891	93
180°	929	929	929	929	929	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6
2.5°	1044.9	1043.5	1046.2	1048.9	1048.9	1050.3	1051.6	1053.0	1053.0	1055.7	1051.6
5°	1046.2	1043.5	1044.9	1044.9	1043.5	1044.9	1046.2	1048.9	1048.9	1051.6	1047.6
7.5°	1039.5	1038.1	1039.5	1038.1	1036.8	1038.1	1039.5	1040.8	1040.8	1043.5	1040.8
10°	1026.0	1026.0	1026.0	1026.0	1026.0	1027.3	1028.7	1030.0	1030.0	1032.7	1030.0
12.5°	1011.1	1011.1	1011.1	1012.5	1009.8	1011.1	1013.8	1016.5	1016.5	1019.2	1016.5
15°	993.6	993.6	994.9	996.3	994.9	994.9	996.3	999.0	999.0	1001.7	999.0
17.5°	970.6	970.6	972.0	974.7	973.3	974.7	976.0	978.7	980.1	980.1	980.1
20°	947.7	946.3	947.7	949.0	949.0	950.4	950.4	954.4	957.1	957.1	958.5
22.5°	920.7	918.0	920.7	922.0	922.0	923.4	923.4	927.4	930.1	931.5	935.5
25°	889.6	889.6	891.0	893.7	893.7	895.0	896.4	900.4	903.1	903.1	908.5
27.5°	859.9	858.6	859.9	862.6	865.3	866.7	866.7	870.7	874.8	877.5	880.2
30°	827.5	827.5	828.9	831.6	834.3	832.9	834.3	839.7	843.7	846.4	849.1
32.5°	793.8	793.8	795.1	797.8	801.9	801.9	803.2	807.3	810.0	812.7	818.1
35°	762.7	760.0	761.4	764.1	769.5	768.1	769.5	773.5	776.2	780.3	784.3
37.5°	724.9	724.9	726.3	729.0	734.4	733.0	735.7	738.4	742.5	746.5	749.2
40°	691.2	692.5	691.2	693.9	697.9	699.3	699.3	702.0	707.4	711.4	715.5
42.5°	653.4	654.7	656.1	658.8	662.8	662.8	664.2	666.9	670.9	675.0	679.0
45°	618.3	618.3	618.3	621.0	626.4	626.4	629.1	629.1	633.1	638.5	642.6
47.5°	581.8	581.8	581.8	585.9	589.9	589.9	592.6	592.6	598.0	602.1	606.1
50°	544.0	546.7	545.4	548.1	553.5	552.1	554.8	554.8	558.9	564.3	568.3
52.5°	510.3	510.3	507.6	511.6	515.7	515.7	517.0	517.0	522.4	526.5	530.5
55°	469.8	472.5	469.8	473.8	477.9	477.9	480.6	480.6	481.9	487.3	491.4
57.5°	436.0	436.0	433.3	436.0	440.1	440.1	442.8	442.8	445.5	448.2	454.9
60°	398.2	396.9	395.5	399.6	402.3	402.3	405.0	405.0	407.7	409.0	415.8
62.5°	360.4	359.1	359.1	361.8	364.5	363.1	367.2	367.2	369.9	372.6	376.6
65°	319.9	318.6	318.6	321.3	322.6	322.6	325.3	326.7	328.0	332.1	334.8
67.5°	283.5	282.1	280.8	283.5	284.8	284.8	287.5	288.9	291.6	292.9	295.6
70°	245.7	244.3	243.0	245.7	248.4	247.0	249.7	251.1	252.4	255.1	257.8
72.5°	207.9	207.9	207.9	209.2	210.6	210.6	211.9	213.3	216.0	218.7	220.0
75°	171.4	170.1	170.1	172.8	172.8	172.8	175.5	176.8	176.8	180.9	182.2
77.5°	135.0	136.3	135.0	135.0	135.0	136.3	137.7	139.0	141.7	144.4	145.8
80°	98.5	99.9	98.5	99.9	98.5	99.9	102.6	102.6	105.3	108.0	109.3
82.5°	63.4	64.8	63.4	64.8	64.8	64.8	66.1	67.5	70.2	71.5	74.2
85°	31.0	29.7	31.0	31.0	31.0	31.0	33.7	33.7	36.4	37.8	39.1
87.5°	4.0	4.0	4.0	4.0	5.4	4.0	5.4	6.7	6.7	8.1	8.1
90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
92.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
95°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.1	8.1
97.5°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	12.1	12.1	13.5	14.8
100°	14.8	14.8	16.2	16.2	16.2	16.2	16.2	17.5	18.9	21.6	24.3
102.5°	21.6	21.6	21.6	22.9	22.9	24.3	24.3	27.0	29.7	33.7	41.8
105°	29.7	31.0	31.0	31.0	33.7	33.7	35.1	39.1	45.9	56.7	75.6
107.5°	41.8	43.2	43.2	45.9	48.6	51.3	54.0	66.1	82.3	114.7	162.0
110°	64.8	66.1	67.5	74.2	83.7	91.8	102.6	133.6	182.2	253.8	332.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	121.5	128.2	136.3	155.2	187.6	207.9	230.8	311.8	390.1	459.0	496.8
115°	294.3	311.8	329.4	371.2	426.6	459.0	481.9	552.1	585.9	599.4	591.3
117.5°	587.2	602.1	614.2	637.2	664.2	673.6	677.7	692.5	685.8	675.0	654.7
120°	769.5	774.9	773.5	773.5	773.5	769.5	766.8	757.3	741.1	724.9	702.0
122.5°	842.4	843.7	838.3	831.6	823.5	819.4	814.0	799.2	781.6	762.7	738.4
125°	880.2	880.2	874.8	868.0	858.6	853.2	845.1	831.6	814.0	795.1	770.8
127.5°	908.5	907.2	903.1	897.7	886.9	882.9	874.8	859.9	842.4	826.2	801.9
130°	931.5	930.1	924.7	922.0	912.6	905.8	899.1	884.2	866.7	850.5	828.9
132.5°	953.1	950.4	945.0	942.3	932.8	927.4	920.7	907.2	889.6	874.8	851.8
135°	970.6	966.6	962.5	959.8	951.7	945.0	939.6	926.1	911.2	895.0	874.8
137.5°	984.1	981.4	976.0	973.3	965.2	959.8	954.4	943.6	930.1	913.9	895.0
140°	996.3	992.2	989.5	985.5	978.7	973.3	967.9	958.5	945.0	931.5	913.9
142.5°	1005.7	1003.0	1000.3	997.6	989.5	985.5	980.1	972.0	961.2	947.7	931.5
145°	1013.8	1011.1	1008.4	1005.7	999.0	994.9	990.9	982.8	973.3	959.8	945.0
147.5°	1020.6	1017.9	1015.2	1013.8	1007.1	1003.0	999.0	993.6	982.8	969.3	958.5
150°	1026.0	1023.3	1020.6	1017.9	1012.5	1008.4	1007.1	1000.3	989.5	978.7	967.9
152.5°	1028.7	1026.0	1024.6	1021.9	1016.5	1012.5	1011.1	1004.4	994.9	982.8	973.3
155°	1028.7	1027.3	1024.6	1023.3	1016.5	1012.5	1011.1	1004.4	996.3	985.5	977.4
157.5°	1028.7	1026.0	1024.6	1021.9	1015.2	1012.5	1011.1	1005.7	999.0	989.5	981.4
160°	1024.6	1023.3	1021.9	1019.2	1013.8	1011.1	1011.1	1005.7	999.0	990.9	981.4
162.5°	1020.6	1017.9	1016.5	1015.2	1011.1	1009.8	1008.4	1004.4	997.6	990.9	981.4
165°	1013.8	1012.5	1009.8	1008.4	1004.4	1003.0	1001.7	999.0	992.2	988.2	978.7
167.5°	1004.4	1001.7	1000.3	997.6	993.6	993.6	993.6	990.9	986.8	984.1	974.7
170°	992.2	989.5	988.2	986.8	984.1	984.1	984.1	982.8	978.7	977.4	967.9
172.5°	980.1	978.7	977.4	976.0	972.0	972.0	972.0	972.0	969.3	969.3	961.2
175°	963.9	962.5	961.2	961.2	958.5	959.8	959.8	959.8	958.5	961.2	953.1
177.5°	943.6	940.9	943.6	946.3	945.0	946.3	947.7	947.7	946.3	949.0	942.3
180°	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6
2.5°	1047.6	1048.9	1047.6	1048.9	1048.9	1048.9	1048.9	1053.0	1057.0	1059.7	1058.4
5°	1043.5	1044.9	1043.5	1044.9	1044.9	1044.9	1044.9	1048.9	1054.3	1055.7	1053.0
7.5°	1035.4	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1042.2	1046.2	1048.9	1046.2
10°	1024.6	1026.0	1026.0	1026.0	1027.3	1027.3	1027.3	1031.4	1036.8	1038.1	1035.4
12.5°	1011.1	1012.5	1012.5	1012.5	1013.8	1013.8	1013.8	1017.9	1023.3	1024.6	1023.3
15°	994.9	996.3	996.3	996.3	997.6	997.6	997.6	1001.7	1007.1	1008.4	1007.1
17.5°	976.0	976.0	976.0	976.0	978.7	980.1	978.7	982.8	988.2	989.5	988.2
20°	953.1	954.4	954.4	955.8	957.1	958.5	958.5	962.5	967.9	969.3	966.6
22.5°	930.1	930.1	931.5	932.8	932.8	934.2	934.2	938.2	943.6	945.0	943.6
25°	904.5	904.5	905.8	908.5	908.5	909.9	909.9	913.9	918.0	919.3	918.0
27.5°	876.1	874.8	877.5	878.8	880.2	882.9	881.5	886.9	891.0	892.3	891.0
30°	847.8	846.4	849.1	850.5	851.8	853.2	853.2	858.6	862.6	864.0	862.6
32.5°	816.7	815.4	818.1	820.8	820.8	822.1	822.1	827.5	830.2	832.9	830.2
35°	784.3	781.6	785.7	788.4	787.0	789.7	789.7	795.1	797.8	800.5	797.8
37.5°	751.9	750.6	751.9	754.6	754.6	756.0	756.0	761.4	765.4	766.8	765.4
40°	718.2	716.8	718.2	722.2	720.9	722.2	723.6	727.6	730.3	731.7	730.3
42.5°	681.7	681.7	683.1	687.1	685.8	687.1	688.5	692.5	695.2	696.6	695.2
45°	645.3	646.6	645.3	652.0	649.3	650.7	653.4	654.7	658.8	660.1	657.4
47.5°	608.8	611.5	610.2	615.6	614.2	614.2	615.6	619.6	622.3	623.7	622.3
50°	571.0	573.7	572.4	579.1	576.4	577.8	579.1	581.8	583.2	584.5	584.5
52.5°	533.2	534.6	537.3	541.3	540.0	541.3	542.7	544.0	545.4	548.1	545.4
55°	495.4	496.8	499.5	502.2	503.5	503.5	504.9	507.6	506.2	507.6	508.9
57.5°	457.6	460.3	460.3	465.7	465.7	465.7	465.7	469.8	468.4	471.1	471.1
60°	418.5	418.5	421.2	425.2	426.6	426.6	427.9	430.6	429.3	432.0	433.3
62.5°	379.3	382.0	384.7	387.4	390.1	387.4	391.5	392.8	394.2	395.5	394.2
65°	337.5	340.2	342.9	345.6	345.6	345.6	346.9	352.3	352.3	357.7	356.4
67.5°	298.3	301.0	303.7	306.4	307.8	307.8	309.1	311.8	314.5	315.9	314.5
70°	259.2	261.9	267.3	268.6	271.3	268.6	272.7	274.0	276.7	278.1	276.7
72.5°	221.4	224.1	228.1	229.5	232.2	233.5	234.9	234.9	238.9	240.3	240.3
75°	183.6	186.3	190.3	191.7	194.4	195.7	197.1	197.1	201.1	202.5	201.1
77.5°	147.1	148.5	152.5	153.9	156.6	157.9	159.3	159.3	163.3	164.7	163.3
80°	110.7	112.0	116.1	117.4	120.1	120.1	121.5	122.8	125.5	126.9	125.5
82.5°	75.6	76.9	79.6	82.3	83.7	85.0	86.4	87.7	89.1	90.4	89.1
85°	40.5	41.8	45.9	47.2	49.9	51.3	51.3	52.6	55.3	55.3	55.3
87.5°	9.4	12.1	14.8	16.2	18.9	18.9	20.2	20.2	22.9	24.3	22.9
90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
92.5°	4.0	4.0	5.4	5.4	6.7	6.7	9.4	10.8	9.4	8.1	8.1
95°	9.4	10.8	13.5	17.5	18.9	21.6	27.0	28.3	22.9	20.2	18.9
97.5°	17.5	21.6	28.3	39.1	43.2	48.6	55.3	52.6	43.2	36.4	33.7
100°	31.0	40.5	56.7	76.9	85.0	91.8	93.1	86.4	71.5	59.4	52.6
102.5°	55.3	78.3	112.0	140.4	145.8	149.8	143.1	128.2	106.6	87.7	76.9
105°	110.7	157.9	203.8	221.4	221.4	217.3	197.1	176.8	148.5	124.2	106.6
107.5°	228.1	282.1	309.1	303.7	294.3	280.8	253.8	228.1	194.4	164.7	143.1
110°	384.7	405.0	396.9	376.6	359.1	342.9	309.1	278.1	241.6	210.6	184.9



TEST NUMBER: P303158

CATALOG NUMBER: CTW-F-5050-40L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	502.2	487.3	465.7	432.0	415.8	399.6	364.5	329.4	288.9	257.8	228.1
115°	576.4	549.4	519.7	486.0	468.4	450.9	417.1	379.3	336.1	302.4	272.7
117.5°	630.4	598.0	567.0	534.6	515.7	498.1	465.7	425.2	384.7	348.3	318.6
120°	673.6	639.9	608.8	576.4	560.2	544.0	510.3	469.8	430.6	398.2	365.8
122.5°	711.4	677.7	648.0	616.9	602.1	584.5	549.4	510.3	471.1	440.1	410.4
125°	745.2	714.1	684.4	656.1	639.9	621.0	585.9	548.1	511.6	480.6	452.2
127.5°	776.2	747.9	719.5	691.2	676.3	654.7	622.3	585.9	552.1	521.1	494.1
130°	804.6	778.9	750.6	722.2	706.0	687.1	654.7	621.0	589.9	560.2	533.2
132.5°	831.6	805.9	778.9	749.2	734.4	716.8	687.1	654.7	625.0	599.4	572.4
135°	855.9	830.2	803.2	774.9	758.7	743.8	715.5	685.8	657.4	631.8	604.8
137.5°	877.5	850.5	824.8	797.8	783.0	769.5	742.5	714.1	689.8	665.5	638.5
140°	896.4	868.0	843.7	816.7	804.6	793.8	765.4	742.5	719.5	695.2	672.3
142.5°	911.2	884.2	861.3	837.0	826.2	814.0	789.7	768.1	746.5	724.9	702.0
145°	924.7	897.7	877.5	854.5	843.7	834.3	811.3	789.7	772.2	751.9	729.0
147.5°	936.9	912.6	892.3	872.1	862.6	853.2	831.6	812.7	796.5	776.2	756.0
150°	945.0	924.7	907.2	886.9	880.2	870.7	850.5	834.3	818.1	801.9	781.6
152.5°	951.7	934.2	918.0	901.8	895.0	885.6	868.0	854.5	841.0	824.8	805.9
155°	955.8	942.3	927.4	912.6	905.8	899.1	884.2	870.7	858.6	845.1	826.2
157.5°	961.2	949.0	935.5	922.0	916.6	909.9	896.4	885.6	874.8	862.6	846.4
160°	963.9	953.1	940.9	930.1	924.7	920.7	905.8	899.1	889.6	878.8	864.0
162.5°	965.2	955.8	946.3	936.9	932.8	927.4	916.6	909.9	901.8	892.3	880.2
165°	965.2	958.5	949.0	942.3	938.2	932.8	924.7	919.3	912.6	904.5	893.7
167.5°	963.9	958.5	950.4	945.0	942.3	938.2	930.1	926.1	922.0	916.6	905.8
170°	959.8	955.8	950.4	946.3	942.3	939.6	934.2	931.5	928.8	924.7	915.3
172.5°	954.4	951.7	946.3	945.0	942.3	939.6	935.5	935.5	932.8	930.1	923.4
175°	947.7	946.3	942.3	940.9	940.9	938.2	935.5	935.5	936.9	934.2	928.8
177.5°	938.2	938.2	935.5	935.5	935.5	934.2	932.8	935.5	936.9	936.9	932.8
180°	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8



TEST NUMBER: P303158

CATALOG NUMBER: CTW-F-5050-40L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6
2.5°	1055.7	1051.6	1048.9	1048.9	1048.9	1046.2	1044.9	1046.2	1050.3	1057.0	1050.3
5°	1050.3	1046.2	1044.9	1044.9	1044.9	1042.2	1040.8	1042.2	1046.2	1053.0	1046.2
7.5°	1043.5	1039.5	1038.1	1038.1	1036.8	1034.1	1034.1	1034.1	1039.5	1043.5	1038.1
10°	1032.7	1028.7	1027.3	1027.3	1026.0	1023.3	1023.3	1023.3	1028.7	1032.7	1027.3
12.5°	1019.2	1015.2	1013.8	1013.8	1012.5	1009.8	1009.8	1009.8	1015.2	1017.9	1013.8
15°	1003.0	999.0	997.6	997.6	996.3	993.6	993.6	993.6	999.0	1000.3	996.3
17.5°	984.1	980.1	978.7	978.7	976.0	974.7	973.3	973.3	978.7	980.1	976.0
20°	963.9	958.5	958.5	957.1	954.4	953.1	953.1	951.7	959.8	957.1	954.4
22.5°	939.6	935.5	935.5	934.2	931.5	930.1	928.8	928.8	935.5	930.1	927.4
25°	915.3	909.9	911.2	908.5	907.2	904.5	903.1	903.1	909.9	903.1	901.8
27.5°	889.6	884.2	881.5	881.5	880.2	876.1	874.8	874.8	881.5	874.8	873.4
30°	858.6	855.9	853.2	853.2	849.1	847.8	846.4	846.4	851.8	845.1	843.7
32.5°	828.9	824.8	823.5	822.1	820.8	816.7	815.4	816.7	820.8	812.7	811.3
35°	796.5	793.8	792.4	789.7	788.4	785.7	784.3	785.7	787.0	780.3	777.6
37.5°	761.4	760.0	758.7	756.0	754.6	753.3	751.9	753.3	753.3	746.5	743.8
40°	727.6	724.9	723.6	722.2	722.2	719.5	718.2	720.9	718.2	715.5	710.1
42.5°	693.9	689.8	689.8	687.1	687.1	684.4	684.4	685.8	683.1	680.4	675.0
45°	657.4	656.1	654.7	652.0	652.0	649.3	649.3	650.7	646.6	643.9	639.9
47.5°	621.0	621.0	618.3	615.6	616.9	615.6	614.2	614.2	611.5	608.8	604.8
50°	584.5	583.2	579.1	580.5	581.8	577.8	579.1	575.1	575.1	572.4	567.0
52.5°	546.7	545.4	544.0	542.7	544.0	541.3	541.3	538.6	537.3	534.6	530.5
55°	510.3	508.9	506.2	506.2	507.6	503.5	503.5	500.8	499.5	496.8	492.7
57.5°	472.5	471.1	469.8	468.4	469.8	467.1	465.7	464.4	461.7	459.0	456.3
60°	434.7	433.3	430.6	429.3	430.6	427.9	426.6	425.2	423.9	419.8	417.1
62.5°	395.5	392.8	392.8	391.5	392.8	390.1	388.8	387.4	384.7	382.0	382.0
65°	356.4	355.0	355.0	351.0	353.7	351.0	345.6	345.6	342.9	340.2	340.2
67.5°	314.5	313.2	313.2	311.8	311.8	311.8	310.5	307.8	303.7	303.7	303.7
70°	276.7	275.4	275.4	272.7	274.0	272.7	271.3	268.6	265.9	265.9	265.9
72.5°	237.6	236.2	236.2	234.9	236.2	234.9	233.5	230.8	228.1	229.5	228.1
75°	199.8	198.4	199.8	197.1	198.4	197.1	195.7	193.0	191.7	193.0	191.7
77.5°	162.0	162.0	162.0	162.0	160.6	159.3	157.9	156.6	156.6	156.6	153.9
80°	125.5	124.2	124.2	124.2	124.2	122.8	121.5	120.1	120.1	120.1	117.4
82.5°	89.1	89.1	89.1	89.1	87.7	89.1	85.0	83.7	83.7	83.7	81.0
85°	54.0	54.0	55.3	54.0	54.0	52.6	49.9	48.6	48.6	47.2	45.9
87.5°	24.3	21.6	21.6	21.6	20.2	20.2	20.2	17.5	17.5	17.5	14.8
90°	2.7	4.0	4.0	4.0	4.0	5.4	5.4	5.4	5.4	5.4	6.7
92.5°	12.1	16.2	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
95°	21.6	24.3	29.7	32.4	35.1	37.8	37.8	39.1	37.8	36.4	36.4
97.5°	32.4	36.4	37.8	39.1	41.8	47.2	51.3	55.3	58.0	59.4	59.4
100°	49.9	48.6	51.3	55.3	55.3	54.0	58.0	62.1	66.1	70.2	71.5
102.5°	71.5	66.1	64.8	66.1	68.8	74.2	71.5	72.9	74.2	76.9	81.0
105°	97.2	89.1	83.7	82.3	83.7	86.4	91.8	93.1	89.1	90.4	91.8
107.5°	126.9	114.7	106.6	103.9	102.6	102.6	105.3	110.7	114.7	113.4	110.7
110°	163.3	144.4	133.6	128.2	125.5	122.8	122.8	125.5	129.6	135.0	139.0



TEST NUMBER: P303158

CATALOG NUMBER: CTW-F-5050-40L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	203.8	180.9	164.7	156.6	152.5	143.1	141.7	143.1	144.4	148.5	153.9
115°	247.0	218.7	198.4	189.0	183.6	168.7	162.0	160.6	162.0	163.3	166.0
117.5°	290.2	261.9	236.2	225.4	217.3	199.8	187.6	183.6	179.5	180.9	180.9
120°	337.5	303.7	279.4	264.6	256.5	234.9	218.7	209.2	201.1	198.4	197.1
122.5°	380.7	351.0	321.3	310.5	297.0	272.7	255.1	240.3	228.1	220.0	216.0
125°	421.2	392.8	365.8	353.7	340.2	313.2	294.3	276.7	260.5	249.7	238.9
127.5°	465.7	436.0	409.0	398.2	384.7	357.7	334.8	318.6	301.0	284.8	270.0
130°	502.2	476.5	450.9	440.1	427.9	402.3	379.3	360.4	338.8	324.0	307.8
132.5°	542.7	515.7	491.4	479.2	467.1	442.8	421.2	402.3	382.0	368.5	351.0
135°	579.1	553.5	527.8	518.4	504.9	483.3	463.0	442.8	423.9	407.7	392.8
137.5°	614.2	588.6	565.6	554.8	542.7	522.4	503.5	488.7	467.1	450.9	434.7
140°	646.6	622.3	600.7	589.9	580.5	558.9	542.7	527.8	507.6	492.7	475.2
142.5°	677.7	654.7	635.8	625.0	614.2	594.0	577.8	564.3	548.1	531.9	517.0
145°	707.4	684.4	666.9	657.4	646.6	627.7	612.9	599.4	588.6	571.0	556.2
147.5°	735.7	712.8	696.6	688.5	679.0	661.5	648.0	634.5	625.0	608.8	595.3
150°	761.4	741.1	726.3	718.2	708.7	692.5	680.4	668.2	660.1	643.9	634.5
152.5°	787.0	768.1	754.6	746.5	738.4	722.2	710.1	697.9	693.9	677.7	669.6
155°	810.0	791.1	778.9	772.2	765.4	749.2	738.4	726.3	723.6	710.1	700.6
157.5°	831.6	814.0	801.9	796.5	789.7	774.9	765.4	754.6	753.3	741.1	733.0
160°	850.5	834.3	823.5	816.7	811.3	799.2	789.7	781.6	778.9	770.8	762.7
162.5°	868.0	854.5	843.7	838.3	834.3	822.1	814.0	805.9	804.6	799.2	789.7
165°	882.9	869.4	861.3	857.2	853.2	842.4	835.6	828.9	827.5	824.8	815.4
167.5°	896.4	884.2	877.5	873.4	869.4	861.3	855.9	850.5	850.5	847.8	839.7
170°	907.2	896.4	891.0	888.3	885.6	877.5	872.1	868.0	868.0	869.4	859.9
172.5°	916.6	908.5	903.1	899.1	897.7	892.3	888.3	884.2	885.6	888.3	880.2
175°	924.7	916.6	912.6	911.2	909.9	904.5	901.8	900.4	901.8	905.8	899.1
177.5°	930.1	924.7	922.0	920.7	920.7	915.3	913.9	913.9	915.3	922.0	913.9
180°	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8



TEST NUMBER: P303158

CATALOG NUMBER: CTW-F-5050-40L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6
2.5°	1053.0	1051.6	1050.3	1048.9	1047.6	1046.2	1043.5	1044.9
5°	1047.6	1046.2	1044.9	1043.5	1043.5	1043.5	1042.2	1043.5
7.5°	1039.5	1038.1	1036.8	1035.4	1035.4	1036.8	1035.4	1038.1
10°	1028.7	1026.0	1026.0	1023.3	1023.3	1023.3	1023.3	1024.6
12.5°	1013.8	1011.1	1011.1	1008.4	1008.4	1008.4	1009.8	1011.1
15°	996.3	994.9	993.6	992.2	992.2	993.6	992.2	993.6
17.5°	976.0	973.3	973.3	972.0	972.0	970.6	970.6	972.0
20°	951.7	949.0	949.0	947.7	946.3	946.3	946.3	947.7
22.5°	924.7	923.4	922.0	919.3	920.7	920.7	919.3	922.0
25°	897.7	896.4	895.0	893.7	893.7	892.3	891.0	892.3
27.5°	870.7	868.0	866.7	865.3	864.0	862.6	861.3	862.6
30°	841.0	835.6	837.0	835.6	832.9	831.6	830.2	831.6
32.5°	808.6	805.9	803.2	803.2	800.5	799.2	797.8	799.2
35°	776.2	772.2	770.8	770.8	768.1	766.8	765.4	766.8
37.5°	742.5	738.4	737.1	737.1	734.4	731.7	731.7	731.7
40°	707.4	703.3	703.3	703.3	700.6	697.9	697.9	697.9
42.5°	672.3	669.6	668.2	668.2	665.5	661.5	661.5	662.8
45°	637.2	634.5	633.1	631.8	630.4	626.4	626.4	626.4
47.5°	599.4	599.4	596.7	596.7	594.0	592.6	591.3	591.3
50°	565.6	562.9	560.2	560.2	558.9	554.8	554.8	554.8
52.5°	527.8	526.5	523.8	523.8	521.1	518.4	518.4	518.4
55°	491.4	490.0	487.3	487.3	484.6	483.3	481.9	481.9
57.5°	453.6	453.6	450.9	450.9	446.8	446.8	445.5	448.2
60°	414.4	415.8	413.1	411.7	409.0	409.0	409.0	411.7
62.5°	379.3	378.0	375.3	375.3	373.9	372.6	373.9	373.9
65°	338.8	336.1	334.8	334.8	333.4	332.1	330.7	333.4
67.5°	301.0	299.7	297.0	297.0	297.0	295.6	295.6	297.0
70°	263.2	261.9	260.5	260.5	259.2	259.2	259.2	260.5
72.5°	225.4	225.4	225.4	224.1	222.7	221.4	224.1	222.7
75°	189.0	187.6	187.6	187.6	186.3	184.9	183.6	186.3
77.5°	152.5	151.2	151.2	151.2	149.8	148.5	148.5	149.8
80°	116.1	114.7	114.7	114.7	113.4	113.4	112.0	113.4
82.5°	78.3	78.3	78.3	78.3	75.6	76.9	76.9	75.6
85°	44.5	43.2	43.2	43.2	43.2	43.2	41.8	43.2
87.5°	13.5	13.5	13.5	14.8	13.5	14.8	14.8	14.8
90°	6.7	6.7	6.7	6.7	6.7	6.7	8.1	8.1
92.5°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
95°	35.1	36.4	35.1	35.1	35.1	35.1	35.1	35.1
97.5°	59.4	59.4	59.4	59.4	58.0	56.7	56.7	56.7
100°	74.2	75.6	76.9	76.9	78.3	78.3	78.3	78.3
102.5°	83.7	85.0	85.0	86.4	87.7	87.7	87.7	87.7
105°	93.1	93.1	94.5	95.8	98.5	99.9	101.2	101.2
107.5°	109.3	109.3	110.7	110.7	110.7	112.0	112.0	112.0
110°	137.7	132.3	132.3	130.9	129.6	129.6	129.6	129.6



TEST NUMBER: P303158

CATALOG NUMBER: CTW-F-5050-40L940-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	157.9	159.3	160.6	162.0	160.6	157.9	157.9	157.9
115°	171.4	174.1	176.8	178.2	179.5	179.5	180.9	180.9
117.5°	184.9	187.6	189.0	190.3	193.0	193.0	195.7	195.7
120°	198.4	201.1	201.1	202.5	203.8	205.2	206.5	206.5
122.5°	214.6	216.0	216.0	216.0	217.3	217.3	218.7	218.7
125°	234.9	232.2	230.8	232.2	230.8	230.8	230.8	230.8
127.5°	260.5	255.1	253.8	252.4	249.7	247.0	247.0	247.0
130°	294.3	286.2	282.1	280.8	276.7	271.3	271.3	270.0
132.5°	333.4	324.0	318.6	317.2	310.5	303.7	301.0	299.7
135°	379.3	368.5	361.8	360.4	349.6	342.9	340.2	338.8
137.5°	419.8	409.0	405.0	402.3	395.5	388.8	384.7	383.4
140°	461.7	452.2	445.5	442.8	434.7	430.6	426.6	426.6
142.5°	503.5	494.1	487.3	484.6	477.9	472.5	468.4	468.4
145°	544.0	534.6	527.8	525.1	518.4	513.0	510.3	508.9
147.5°	584.5	575.1	569.7	567.0	560.2	554.8	550.8	550.8
150°	623.7	614.2	608.8	603.4	599.4	594.0	591.3	589.9
152.5°	660.1	652.0	646.6	641.2	637.2	634.5	630.4	630.4
155°	692.5	685.8	680.4	676.3	673.6	669.6	668.2	668.2
157.5°	726.3	718.2	714.1	710.1	707.4	706.0	703.3	703.3
160°	757.3	749.2	746.5	742.5	739.8	737.1	735.7	737.1
162.5°	787.0	781.6	777.6	773.5	772.2	769.5	768.1	768.1
165°	812.7	807.3	804.6	801.9	799.2	797.8	796.5	797.8
167.5°	837.0	831.6	828.9	826.2	824.8	824.8	823.5	823.5
170°	858.6	854.5	853.2	849.1	847.8	847.8	846.4	846.4
172.5°	878.8	876.1	874.8	872.1	872.1	872.1	870.7	872.1
175°	899.1	896.4	895.0	892.3	892.3	891.0	889.6	891.0
177.5°	916.6	915.3	912.6	911.2	909.9	908.5	905.8	907.2
180°	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8

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