

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: P303146

Luminaire Tested: **CTW-F-5050-30L935-UNV-STD-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-5050-30L935-UNV-STD-8
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 3000 LUMEN PACKAGE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5221.8 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 8' x L: 0.12' x H: 0')
CIE Type: General Diffuse

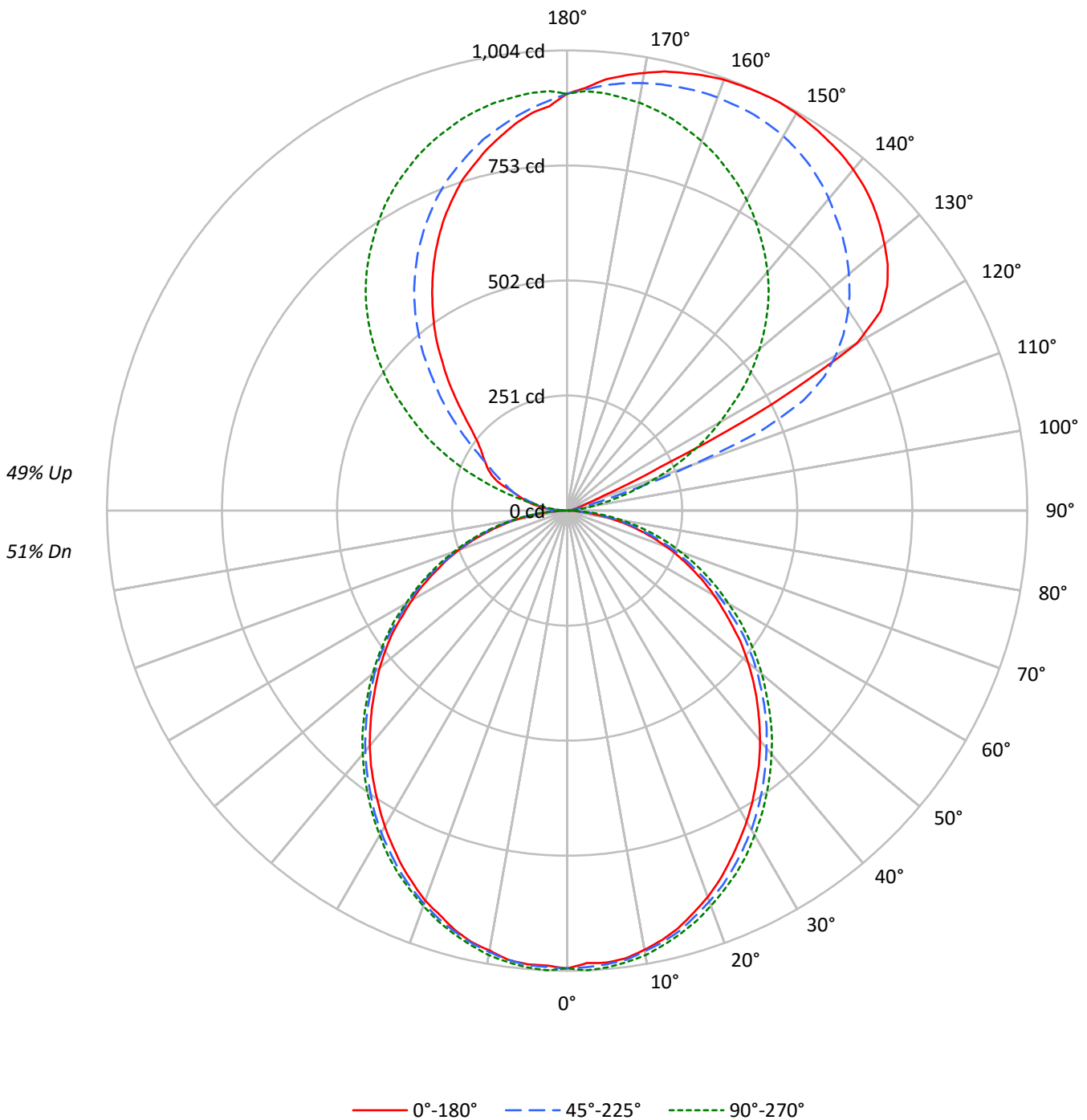
Input Watts (W): 43.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40	36
3	81	72	64	58	75	66	60	55	57	52	48	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	35	32	29	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	42	36	58	47	40	34	40	35	30	34	30	26	28	25	22	20
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10751	10751	10751
5°	10698	10810	10736
10°	10634	10766	10653
15°	10496	10650	10554
20°	10277	10513	10376
25°	10001	10370	10144
30°	9738	10166	9889
35°	9458	9956	9640
40°	9195	9752	9413
45°	8913	9516	9149
50°	8622	9285	8939
55°	8272	9049	8724
60°	7970	8749	8415
65°	7631	8553	8115
70°	7260	8293	7912
75°	6658	8022	7449
80°	5659	7469	6831
85°	3409	6595	5101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.8
10°-20°	267.0	5.1
20°-30°	395.3	7.6
30°-40°	464.2	8.9
40°-50°	470.7	9.0
50°-60°	418.7	8.0
60°-70°	319.2	6.1
70°-80°	189.6	3.6
80°-90°	51.2	1.0
90°-100°	25.0	0.5
100°-110°	106.4	2.0
110°-120°	301.4	5.8
120°-130°	451.1	8.6
130°-140°	487.6	9.3
140°-150°	464.3	8.9
150°-160°	380.8	7.3
160°-170°	248.9	4.8
170°-180°	86.3	1.7
0°-30°	756.6	14.5
0°-40°	1220.8	23.4
0°-60°	2110.2	40.4
0°-90°	2670.2	51.1
90°-120°	432.8	8.3
90°-150°	1835.7	35.2
90°-180°	2552.0	48.9
0°-180°	5221.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	999	999	999	999	999	
5°	990	994	1000	995	994	94
15°	942	949	956	950	947	265
25°	842	859	873	866	854	388
35°	720	742	758	749	734	451
45°	586	610	625	616	601	452
55°	441	467	482	475	465	395
65°	300	313	336	329	319	297
75°	160	170	193	186	179	169
85°	28	36	53	48	41	36
90°	2	2	2	3	5	1
95°	5	5	19	38	34	6
105°	24	62	122	93	100	28
115°	224	568	298	162	181	296
125°	852	747	470	264	229	753
135°	944	849	618	420	341	728
145°	988	921	734	582	508	620
155°	1004	956	823	711	661	464
165°	988	956	885	811	782	280
175°	944	932	914	882	871	91
180°	909	909	909	909	909	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8
2.5°	988.4	988.4	993.6	995.3	995.3	997.0	998.8	1000.5	1000.5	1000.5	997.0
5°	990.1	990.1	990.1	990.1	990.1	991.9	993.6	995.3	997.0	995.3	993.6
7.5°	985.0	985.0	985.0	985.0	983.3	985.0	985.0	988.4	988.4	988.4	988.4
10°	972.9	972.9	972.9	974.7	972.9	974.7	976.4	978.1	979.8	979.8	976.4
12.5°	959.2	959.2	959.2	960.9	959.2	959.2	962.6	962.6	966.0	964.3	964.3
15°	941.9	941.9	941.9	945.4	943.7	943.7	945.4	947.1	948.8	948.8	948.8
17.5°	919.5	919.5	923.0	924.7	923.0	924.7	924.7	926.4	929.9	929.9	928.2
20°	897.2	897.2	897.2	900.6	898.9	900.6	900.6	904.0	907.5	907.5	907.5
22.5°	871.3	869.6	871.3	873.1	873.1	874.8	874.8	878.2	881.7	883.4	885.1
25°	842.1	842.1	843.8	847.2	847.2	847.2	848.9	852.4	855.8	857.6	859.3
27.5°	812.8	812.8	814.5	817.9	819.7	819.7	819.7	824.8	830.0	831.7	831.7
30°	783.5	783.5	783.5	787.0	788.7	788.7	788.7	793.8	799.0	804.2	804.2
32.5°	752.5	752.5	752.5	757.7	759.4	759.4	759.4	762.8	768.0	771.5	773.2
35°	719.8	719.8	721.5	725.0	726.7	726.7	726.7	730.1	733.6	740.5	742.2
37.5°	688.8	687.1	688.8	692.2	694.0	694.0	692.2	697.4	702.6	707.7	709.5
40°	654.4	652.6	656.1	657.8	659.5	659.5	659.5	664.7	669.9	675.0	676.7
42.5°	619.9	619.9	621.6	623.4	625.1	625.1	626.8	630.3	633.7	640.6	644.0
45°	585.5	583.8	587.2	588.9	592.4	590.6	592.4	594.1	599.3	604.4	609.6
47.5°	551.0	551.0	551.0	552.8	556.2	557.9	557.9	559.6	564.8	570.0	573.4
50°	514.9	514.9	516.6	518.3	521.8	521.8	523.5	525.2	526.9	535.5	539.0
52.5°	480.4	480.4	480.4	482.2	487.3	487.3	487.3	490.8	494.2	497.7	502.8
55°	440.8	442.6	442.6	442.6	447.7	447.7	449.4	451.2	454.6	461.5	466.7
57.5°	404.7	406.4	406.4	408.1	409.8	411.6	413.3	413.3	416.7	420.2	425.3
60°	370.2	372.0	372.0	372.0	375.4	375.4	377.1	378.8	380.6	384.0	389.2
62.5°	335.8	335.8	335.8	335.8	339.2	339.2	341.0	344.4	344.4	347.8	353.0
65°	299.6	301.3	299.6	301.3	303.1	303.1	304.8	308.2	308.2	311.7	313.4
67.5°	265.2	265.2	265.2	266.9	266.9	268.6	268.6	272.1	273.8	275.5	277.2
70°	230.7	230.7	229.0	230.7	232.5	234.2	234.2	235.9	237.6	239.4	242.8
72.5°	194.6	194.6	194.6	196.3	196.3	198.0	198.0	201.5	203.2	204.9	206.6
75°	160.1	160.1	160.1	161.9	161.9	161.9	163.6	165.3	167.0	168.8	170.5
77.5°	125.7	125.7	125.7	127.4	125.7	127.4	127.4	130.9	132.6	134.3	136.0
80°	91.3	91.3	91.3	93.0	94.7	94.7	94.7	96.4	98.2	99.9	101.6
82.5°	58.5	56.8	56.8	58.5	60.3	60.3	62.0	62.0	63.7	65.4	68.9
85°	27.6	27.6	25.8	27.6	29.3	29.3	31.0	31.0	32.7	34.4	36.2
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.2	5.2	5.2	6.9
90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
92.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
95°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
97.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	10.3	10.3
100°	12.1	12.1	12.1	12.1	12.1	13.8	13.8	13.8	15.5	17.2	18.9
102.5°	17.2	17.2	17.2	17.2	18.9	18.9	18.9	20.7	22.4	27.6	32.7
105°	24.1	24.1	25.8	25.8	27.6	27.6	29.3	31.0	36.2	44.8	62.0
107.5°	34.4	34.4	36.2	36.2	39.6	41.3	44.8	49.9	63.7	89.5	132.6
110°	49.9	51.7	55.1	56.8	65.4	70.6	77.5	99.9	142.9	210.1	287.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	91.3	93.0	106.8	115.4	141.2	160.1	179.1	242.8	330.6	411.6	463.2
115°	223.9	234.2	253.1	287.6	342.7	382.3	418.4	489.0	545.9	566.5	568.3
117.5°	508.0	516.6	542.4	570.0	606.1	630.3	640.6	656.1	657.8	645.7	632.0
120°	730.1	730.1	730.1	737.0	737.0	740.5	735.3	728.4	712.9	694.0	676.7
122.5°	811.1	807.6	805.9	800.7	793.8	788.7	783.5	769.7	756.0	735.3	714.6
125°	852.4	847.2	845.5	838.6	828.3	824.8	817.9	804.2	788.7	768.0	747.3
127.5°	881.7	876.5	873.1	867.9	857.6	852.4	845.5	831.7	816.2	797.3	776.6
130°	904.0	898.9	895.4	892.0	879.9	876.5	869.6	855.8	840.3	823.1	802.5
132.5°	924.7	921.3	916.1	910.9	904.0	898.9	892.0	879.9	864.4	847.2	826.6
135°	943.7	938.5	935.0	931.6	921.3	917.8	910.9	898.9	885.1	866.2	848.9
137.5°	959.2	954.0	950.5	945.4	938.5	931.6	926.4	916.1	902.3	886.8	867.9
140°	971.2	966.0	962.6	957.4	950.5	945.4	940.2	931.6	919.5	904.0	888.6
142.5°	981.5	974.7	972.9	967.8	960.9	957.4	952.3	943.7	933.3	917.8	905.8
145°	988.4	983.3	981.5	976.4	971.2	966.0	964.3	957.4	945.4	929.9	921.3
147.5°	995.3	990.1	988.4	985.0	978.1	974.7	972.9	964.3	954.0	940.2	933.3
150°	1000.5	995.3	993.6	990.1	983.3	981.5	979.8	972.9	962.6	948.8	943.7
152.5°	1003.9	997.0	995.3	991.9	986.7	985.0	983.3	976.4	967.8	955.7	950.5
155°	1003.9	998.8	997.0	993.6	988.4	986.7	983.3	978.1	969.5	960.9	955.7
157.5°	1002.2	998.8	997.0	993.6	986.7	986.7	983.3	978.1	971.2	964.3	957.4
160°	1000.5	995.3	995.3	991.9	986.7	986.7	983.3	979.8	971.2	966.0	959.2
162.5°	995.3	991.9	991.9	988.4	985.0	985.0	981.5	978.1	969.5	967.8	959.2
165°	988.4	985.0	985.0	983.3	978.1	978.1	976.4	971.2	966.0	964.3	955.7
167.5°	981.5	976.4	976.4	974.7	969.5	969.5	969.5	966.0	960.9	962.6	952.3
170°	969.5	964.3	964.3	962.6	960.9	960.9	960.9	957.4	952.3	955.7	947.1
172.5°	957.4	955.7	954.0	952.3	950.5	950.5	950.5	948.8	945.4	948.8	940.2
175°	943.7	940.2	940.2	938.5	938.5	938.5	938.5	938.5	935.0	940.2	931.6
177.5°	923.0	919.5	921.3	923.0	923.0	924.7	924.7	924.7	923.0	928.2	919.5
180°	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8
2.5°	993.6	997.0	995.3	995.3	995.3	995.3	995.3	997.0	1002.2	1003.9	1003.9
5°	990.1	993.6	991.9	990.1	990.1	990.1	990.1	993.6	998.8	1000.5	998.8
7.5°	983.3	986.7	985.0	983.3	985.0	985.0	985.0	988.4	993.6	993.6	993.6
10°	972.9	976.4	974.7	974.7	974.7	974.7	976.4	978.1	983.3	985.0	983.3
12.5°	960.9	962.6	960.9	962.6	962.6	962.6	962.6	964.3	969.5	971.2	971.2
15°	945.4	947.1	945.4	947.1	945.4	947.1	947.1	950.5	954.0	955.7	957.4
17.5°	926.4	926.4	926.4	928.2	928.2	928.2	928.2	931.6	936.8	938.5	938.5
20°	904.0	905.8	907.5	907.5	907.5	909.2	909.2	910.9	917.8	917.8	919.5
22.5°	883.4	883.4	885.1	885.1	886.8	886.8	886.8	888.6	895.4	895.4	895.4
25°	857.6	857.6	861.0	862.7	862.7	862.7	864.4	866.2	873.1	873.1	873.1
27.5°	830.0	830.0	835.2	833.4	835.2	836.9	838.6	842.1	845.5	847.2	847.2
30°	802.5	802.5	805.9	805.9	807.6	807.6	809.3	812.8	817.9	817.9	819.7
32.5°	774.9	774.9	776.6	778.3	780.1	778.3	780.1	783.5	788.7	788.7	790.4
35°	743.9	742.2	745.6	747.3	747.3	749.1	749.1	752.5	757.7	757.7	759.4
37.5°	712.9	711.2	714.6	716.4	718.1	718.1	718.1	721.5	725.0	726.7	728.4
40°	680.2	678.5	683.6	685.4	685.4	685.4	685.4	688.8	692.2	694.0	695.7
42.5°	644.0	645.7	649.2	652.6	652.6	652.6	654.4	654.4	659.5	661.2	663.0
45°	611.3	613.0	614.8	619.9	618.2	616.5	619.9	619.9	625.1	625.1	626.8
47.5°	576.9	578.6	578.6	583.8	583.8	582.0	585.5	585.5	588.9	588.9	592.4
50°	542.4	544.2	544.2	549.3	549.3	547.6	551.0	551.0	554.5	554.5	557.9
52.5°	504.5	508.0	508.0	513.2	514.9	513.2	514.9	514.9	518.3	518.3	521.8
55°	468.4	471.8	473.5	475.3	478.7	477.0	478.7	480.4	483.9	482.2	485.6
57.5°	430.5	430.5	433.9	435.7	437.4	437.4	442.6	440.8	440.8	446.0	447.7
60°	392.6	394.3	397.8	399.5	401.2	401.2	402.9	404.7	406.4	406.4	409.8
62.5°	356.5	359.9	361.6	363.3	365.1	363.3	368.5	370.2	372.0	372.0	372.0
65°	320.3	322.0	325.5	327.2	327.2	327.2	332.3	334.1	334.1	335.8	335.8
67.5°	282.4	285.9	289.3	289.3	292.7	291.0	296.2	297.9	297.9	299.6	301.3
70°	246.2	248.0	251.4	253.1	256.6	254.9	258.3	260.0	261.7	263.5	265.2
72.5°	210.1	211.8	215.2	217.0	218.7	220.4	222.1	225.6	227.3	229.0	229.0
75°	173.9	175.6	179.1	180.8	182.5	184.3	186.0	189.4	189.4	192.9	192.9
77.5°	139.5	141.2	142.9	144.6	148.1	149.8	151.5	153.3	155.0	156.7	156.7
80°	105.0	105.0	108.5	110.2	113.7	113.7	115.4	117.1	120.5	120.5	120.5
82.5°	70.6	72.3	74.0	75.8	79.2	79.2	80.9	84.4	86.1	86.1	86.1
85°	37.9	39.6	43.0	44.8	46.5	46.5	49.9	51.7	53.4	53.4	53.4
87.5°	8.6	10.3	12.1	13.8	17.2	18.9	18.9	20.7	22.4	22.4	22.4
90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
92.5°	3.4	3.4	3.4	3.4	3.4	5.2	6.9	8.6	8.6	6.9	8.6
95°	6.9	6.9	8.6	12.1	15.5	17.2	24.1	25.8	22.4	18.9	18.9
97.5°	12.1	15.5	20.7	31.0	37.9	43.0	51.7	48.2	41.3	36.2	32.7
100°	24.1	32.7	44.8	65.4	75.8	84.4	87.8	79.2	68.9	58.5	51.7
102.5°	43.0	65.4	93.0	125.7	136.0	139.5	137.8	120.5	103.3	86.1	75.8
105°	89.5	130.9	179.1	203.2	208.4	204.9	187.7	168.8	144.6	122.3	105.0
107.5°	192.9	251.4	282.4	285.9	280.7	270.4	244.5	218.7	189.4	163.6	139.5
110°	342.7	373.7	373.7	358.2	344.4	332.3	299.6	270.4	237.6	206.6	180.8



TEST NUMBER: P303146

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	471.8	466.7	444.3	416.7	401.2	385.7	351.3	320.3	284.1	253.1	222.1
115°	552.8	528.7	501.1	470.1	452.9	433.9	402.9	366.8	328.9	297.9	265.2
117.5°	606.1	578.6	547.6	518.3	501.1	487.3	451.2	409.8	375.4	342.7	310.0
120°	649.2	619.9	590.6	561.4	545.9	530.4	492.5	456.3	416.7	384.0	353.0
122.5°	685.4	657.8	628.5	601.0	585.5	568.3	533.8	497.7	464.9	425.3	396.1
125°	721.5	695.7	664.7	638.9	621.6	602.7	571.7	535.5	502.8	470.1	439.1
127.5°	752.5	726.7	700.9	671.6	654.4	637.1	606.1	571.7	540.7	509.7	480.4
130°	780.1	757.7	730.1	700.9	683.6	668.1	637.1	606.1	576.9	547.6	518.3
132.5°	809.3	783.5	757.7	728.4	712.9	697.4	669.9	640.6	611.3	583.8	556.2
135°	833.4	807.6	780.1	750.8	738.7	725.0	699.1	671.6	644.0	618.2	592.4
137.5°	855.8	826.6	800.7	773.2	762.8	750.8	725.0	699.1	675.0	650.9	625.1
140°	873.1	843.8	819.7	795.6	785.2	773.2	747.3	726.7	704.3	680.2	656.1
142.5°	886.8	859.3	835.2	814.5	804.2	795.6	771.5	750.8	730.1	707.7	685.4
145°	898.9	874.8	852.4	831.7	824.8	814.5	792.1	774.9	756.0	733.6	712.9
147.5°	909.2	888.6	867.9	848.9	840.3	831.7	811.1	795.6	776.6	759.4	738.7
150°	919.5	900.6	881.7	864.4	857.6	848.9	828.3	814.5	800.7	783.5	764.6
152.5°	926.4	909.2	892.0	878.2	871.3	864.4	845.5	835.2	819.7	804.2	787.0
155°	933.3	917.8	902.3	890.3	885.1	878.2	862.7	852.4	838.6	823.1	807.6
157.5°	938.5	924.7	910.9	900.6	895.4	890.3	874.8	867.9	855.8	842.1	826.6
160°	940.2	928.2	917.8	909.2	904.0	898.9	886.8	879.9	869.6	857.6	843.8
162.5°	940.2	931.6	921.3	916.1	910.9	905.8	895.4	890.3	881.7	871.3	859.3
165°	940.2	933.3	924.7	919.5	916.1	912.7	904.0	898.9	890.3	885.1	873.1
167.5°	940.2	933.3	926.4	923.0	919.5	916.1	910.9	907.5	900.6	895.4	885.1
170°	936.8	929.9	926.4	924.7	921.3	919.5	914.4	912.7	907.5	904.0	895.4
172.5°	931.6	926.4	924.7	923.0	921.3	919.5	916.1	914.4	910.9	909.2	904.0
175°	924.7	921.3	919.5	919.5	919.5	917.8	914.4	916.1	914.4	914.4	909.2
177.5°	914.4	912.7	912.7	912.7	914.4	912.7	912.7	914.4	914.4	916.1	912.7
180°	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2



TEST NUMBER: P303146

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8
2.5°	1002.2	998.8	997.0	997.0	995.3	991.9	991.9	993.6	997.0	1003.9	998.8
5°	998.8	997.0	991.9	991.9	991.9	990.1	986.7	990.1	995.3	1000.5	993.6
7.5°	991.9	990.1	986.7	986.7	986.7	983.3	981.5	985.0	988.4	991.9	986.7
10°	983.3	979.8	978.1	976.4	976.4	972.9	971.2	974.7	978.1	981.5	978.1
12.5°	971.2	967.8	964.3	964.3	962.6	960.9	959.2	962.6	966.0	969.5	966.0
15°	955.7	952.3	948.8	948.8	948.8	943.7	943.7	945.4	950.5	952.3	947.1
17.5°	938.5	933.3	929.9	931.6	929.9	924.7	926.4	926.4	933.3	933.3	929.9
20°	917.8	912.7	910.9	910.9	909.2	905.8	905.8	907.5	912.7	910.9	907.5
22.5°	895.4	890.3	890.3	888.6	888.6	883.4	883.4	885.1	890.3	886.8	883.4
25°	871.3	867.9	866.2	866.2	862.7	859.3	859.3	861.0	866.2	861.0	859.3
27.5°	843.8	842.1	840.3	840.3	836.9	833.4	835.2	835.2	838.6	835.2	831.7
30°	817.9	814.5	812.8	812.8	809.3	804.2	805.9	805.9	811.1	805.9	805.9
32.5°	790.4	785.2	785.2	783.5	780.1	776.6	778.3	780.1	781.8	774.9	776.6
35°	759.4	754.2	754.2	752.5	749.1	747.3	747.3	749.1	749.1	743.9	743.9
37.5°	728.4	725.0	723.2	721.5	718.1	716.4	718.1	719.8	718.1	712.9	712.9
40°	695.7	692.2	688.8	688.8	687.1	685.4	685.4	688.8	685.4	680.2	680.2
42.5°	663.0	659.5	656.1	656.1	654.4	654.4	654.4	656.1	650.9	649.2	645.7
45°	628.5	625.1	621.6	621.6	619.9	619.9	619.9	619.9	616.5	614.8	613.0
47.5°	594.1	590.6	587.2	587.2	585.5	587.2	587.2	585.5	580.3	580.3	578.6
50°	559.6	556.2	552.8	552.8	552.8	552.8	552.8	551.0	547.6	545.9	544.2
52.5°	523.5	520.0	516.6	518.3	516.6	518.3	516.6	514.9	511.4	509.7	508.0
55°	487.3	483.9	482.2	483.9	482.2	482.2	480.4	478.7	475.3	475.3	471.8
57.5°	449.4	444.3	444.3	446.0	444.3	444.3	440.8	439.1	435.7	435.7	432.2
60°	409.8	408.1	408.1	408.1	408.1	406.4	404.7	404.7	401.2	399.5	396.1
62.5°	373.7	373.7	372.0	373.7	370.2	370.2	368.5	366.8	365.1	363.3	361.6
65°	337.5	335.8	335.8	334.1	334.1	334.1	332.3	330.6	328.9	327.2	325.5
67.5°	299.6	299.6	299.6	299.6	297.9	297.9	296.2	294.5	291.0	292.7	289.3
70°	263.5	263.5	263.5	263.5	261.7	261.7	260.0	258.3	254.9	256.6	254.9
72.5°	227.3	227.3	227.3	227.3	225.6	225.6	222.1	222.1	222.1	220.4	218.7
75°	191.1	191.1	191.1	189.4	189.4	189.4	186.0	186.0	186.0	186.0	182.5
77.5°	155.0	156.7	155.0	155.0	153.3	153.3	153.3	151.5	151.5	149.8	148.1
80°	118.8	120.5	120.5	120.5	118.8	118.8	118.8	117.1	115.4	115.4	113.7
82.5°	87.8	86.1	86.1	86.1	84.4	84.4	84.4	82.7	82.7	80.9	79.2
85°	53.4	53.4	53.4	53.4	51.7	51.7	49.9	48.2	48.2	44.8	44.8
87.5°	24.1	22.4	22.4	22.4	22.4	20.7	18.9	17.2	17.2	15.5	15.5
90°	1.7	1.7	3.4	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4
92.5°	12.1	15.5	17.2	18.9	17.2	18.9	18.9	18.9	17.2	17.2	17.2
95°	20.7	24.1	29.3	31.0	32.7	36.2	37.9	37.9	37.9	36.2	36.2
97.5°	32.7	36.2	37.9	39.6	39.6	44.8	48.2	51.7	55.1	55.1	56.8
100°	49.9	48.2	51.7	55.1	55.1	55.1	56.8	60.3	63.7	65.4	68.9
102.5°	70.6	65.4	65.4	67.2	68.9	74.0	72.3	74.0	75.8	77.5	79.2
105°	94.7	89.5	84.4	84.4	84.4	87.8	93.0	96.4	93.0	93.0	94.7
107.5°	125.7	115.4	106.8	105.0	105.0	103.3	106.8	111.9	115.4	117.1	115.4
110°	160.1	144.6	136.0	127.4	125.7	124.0	124.0	125.7	130.9	136.0	139.5



TEST NUMBER: P303146

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	199.8	180.8	165.3	158.4	151.5	144.6	142.9	142.9	144.6	149.8	153.3
115°	241.1	218.7	198.0	189.4	184.3	170.5	163.6	160.1	161.9	163.6	167.0
117.5°	284.1	260.0	235.9	225.6	218.7	203.2	189.4	184.3	180.8	179.1	182.5
120°	327.2	303.1	279.0	265.2	254.9	237.6	222.1	208.4	201.5	198.0	196.3
122.5°	368.5	344.4	320.3	306.5	296.2	273.8	258.3	241.1	229.0	220.4	215.2
125°	409.8	385.7	361.6	347.8	337.5	313.4	294.5	279.0	263.5	249.7	239.4
127.5°	451.2	425.3	401.2	389.2	378.8	353.0	332.3	316.8	301.3	285.9	272.1
130°	492.5	470.1	444.3	428.8	420.2	394.3	373.7	354.7	341.0	325.5	308.2
132.5°	528.7	508.0	483.9	471.8	459.8	433.9	416.7	396.1	380.6	365.1	349.6
135°	566.5	544.2	520.0	509.7	499.4	478.7	458.1	437.4	420.2	404.7	389.2
137.5°	599.3	580.3	556.2	545.9	535.5	516.6	497.7	482.2	464.9	447.7	428.8
140°	632.0	611.3	590.6	580.3	570.0	554.5	535.5	521.8	504.5	490.8	471.8
142.5°	661.2	640.6	623.4	613.0	602.7	587.2	570.0	557.9	544.2	528.7	516.6
145°	690.5	671.6	654.4	644.0	635.4	619.9	602.7	594.1	582.0	566.5	552.8
147.5°	716.4	699.1	681.9	673.3	666.4	650.9	637.1	626.8	616.5	602.7	590.6
150°	742.2	725.0	709.5	702.6	694.0	681.9	669.9	657.8	650.9	637.1	626.8
152.5°	766.3	750.8	735.3	730.1	723.2	709.5	697.4	687.1	681.9	669.9	661.2
155°	790.4	774.9	759.4	756.0	749.1	737.0	725.0	716.4	711.2	699.1	690.5
157.5°	811.1	795.6	783.5	778.3	771.5	761.1	750.8	743.9	740.5	730.1	721.5
160°	830.0	816.2	804.2	799.0	793.8	783.5	776.6	768.0	766.3	757.7	750.8
162.5°	845.5	833.4	823.1	819.7	814.5	805.9	799.0	790.4	788.7	783.5	776.6
165°	861.0	848.9	840.3	836.9	833.4	824.8	819.7	812.8	811.1	807.6	800.7
167.5°	874.8	864.4	855.8	854.1	850.7	843.8	840.3	833.4	831.7	830.0	823.1
170°	885.1	876.5	869.6	867.9	864.4	859.3	855.8	850.7	848.9	850.7	843.8
172.5°	893.7	886.8	881.7	879.9	878.2	874.8	871.3	867.9	866.2	869.6	862.7
175°	902.3	895.4	892.0	890.3	890.3	886.8	885.1	881.7	881.7	885.1	879.9
177.5°	907.5	902.3	898.9	898.9	897.2	895.4	895.4	892.0	895.4	898.9	893.7
180°	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2



TEST NUMBER: P303146

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8
2.5°	1002.2	998.8	998.8	997.0	995.3	993.6	993.6	993.6
5°	997.0	995.3	993.6	990.1	990.1	991.9	993.6	993.6
7.5°	988.4	988.4	986.7	985.0	983.3	986.7	986.7	988.4
10°	979.8	978.1	976.4	974.7	972.9	974.7	974.7	974.7
12.5°	966.0	964.3	962.6	959.2	959.2	960.9	960.9	964.3
15°	950.5	948.8	945.4	945.4	943.7	945.4	945.4	947.1
17.5°	931.6	928.2	926.4	924.7	924.7	926.4	926.4	924.7
20°	909.2	905.8	902.3	900.6	900.6	902.3	902.3	905.8
22.5°	883.4	879.9	878.2	876.5	876.5	878.2	878.2	879.9
25°	859.3	855.8	854.1	852.4	852.4	852.4	852.4	854.1
27.5°	833.4	828.3	824.8	824.8	823.1	823.1	823.1	824.8
30°	802.5	797.3	795.6	795.6	793.8	793.8	793.8	795.6
32.5°	771.5	768.0	766.3	764.6	762.8	764.6	762.8	764.6
35°	740.5	735.3	735.3	735.3	733.6	733.6	731.8	733.6
37.5°	709.5	704.3	702.6	702.6	700.9	700.9	700.9	702.6
40°	676.7	671.6	671.6	669.9	668.1	668.1	668.1	669.9
42.5°	642.3	638.9	637.1	637.1	635.4	635.4	635.4	635.4
45°	607.9	602.7	602.7	604.4	601.0	601.0	601.0	601.0
47.5°	573.4	570.0	570.0	570.0	566.5	566.5	566.5	566.5
50°	539.0	537.3	535.5	535.5	535.5	533.8	533.8	533.8
52.5°	504.5	502.8	501.1	502.8	499.4	499.4	499.4	499.4
55°	468.4	466.7	466.7	468.4	464.9	464.9	463.2	464.9
57.5°	428.8	427.1	427.1	427.1	427.1	425.3	425.3	425.3
60°	394.3	392.6	392.6	392.6	390.9	390.9	390.9	390.9
62.5°	358.2	358.2	358.2	356.5	356.5	354.7	354.7	356.5
65°	323.7	322.0	322.0	322.0	320.3	320.3	318.6	318.6
67.5°	287.6	287.6	287.6	285.9	285.9	284.1	284.1	285.9
70°	253.1	253.1	251.4	251.4	251.4	249.7	249.7	251.4
72.5°	218.7	217.0	217.0	215.2	217.0	213.5	213.5	215.2
75°	182.5	182.5	180.8	180.8	180.8	179.1	179.1	179.1
77.5°	148.1	148.1	146.4	146.4	146.4	144.6	144.6	144.6
80°	113.7	111.9	111.9	111.9	111.9	110.2	108.5	110.2
82.5°	77.5	77.5	77.5	77.5	75.8	74.0	72.3	74.0
85°	44.8	43.0	43.0	44.8	43.0	43.0	43.0	41.3
87.5°	15.5	13.8	13.8	13.8	13.8	15.5	13.8	13.8
90°	3.4	3.4	3.4	5.2	5.2	5.2	5.2	5.2
92.5°	17.2	17.2	15.5	15.5	15.5	15.5	13.8	13.8
95°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
97.5°	56.8	56.8	55.1	55.1	55.1	55.1	55.1	55.1
100°	70.6	72.3	72.3	72.3	74.0	74.0	74.0	74.0
102.5°	82.7	82.7	84.4	84.4	84.4	86.1	86.1	86.1
105°	94.7	96.4	96.4	96.4	98.2	98.2	99.9	99.9
107.5°	113.7	113.7	113.7	113.7	115.4	115.4	115.4	115.4
110°	139.5	139.5	137.8	136.0	136.0	136.0	134.3	134.3



TEST NUMBER: P303146

CATALOG NUMBER: CTW-F-5050-30L935-UNV-STD-8

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	156.7	160.1	160.1	161.9	163.6	163.6	163.6	163.6
115°	170.5	173.9	175.6	177.4	179.1	179.1	180.8	180.8
117.5°	184.3	186.0	187.7	189.4	191.1	192.9	192.9	194.6
120°	198.0	199.8	201.5	201.5	203.2	204.9	204.9	204.9
122.5°	213.5	215.2	213.5	213.5	215.2	215.2	215.2	217.0
125°	234.2	232.5	230.7	230.7	229.0	229.0	229.0	229.0
127.5°	261.7	258.3	254.9	251.4	249.7	248.0	246.2	246.2
130°	296.2	289.3	284.1	280.7	277.2	273.8	270.4	270.4
132.5°	335.8	327.2	322.0	316.8	311.7	306.5	301.3	303.1
135°	377.1	370.2	363.3	358.2	351.3	344.4	341.0	341.0
137.5°	416.7	408.1	402.9	399.5	394.3	387.4	382.3	384.0
140°	461.5	446.0	442.6	439.1	433.9	427.1	423.6	423.6
142.5°	501.1	489.0	485.6	483.9	477.0	470.1	466.7	468.4
145°	540.7	528.7	526.9	523.5	518.3	511.4	508.0	508.0
147.5°	578.6	568.3	566.5	563.1	557.9	551.0	547.6	547.6
150°	616.5	606.1	602.7	601.0	595.8	588.9	585.5	587.2
152.5°	650.9	640.6	638.9	637.1	630.3	626.8	623.4	625.1
155°	683.6	673.3	671.6	669.9	666.4	661.2	659.5	661.2
157.5°	714.6	706.0	704.3	702.6	699.1	694.0	692.2	695.7
160°	743.9	737.0	735.3	733.6	731.8	728.4	725.0	726.7
162.5°	771.5	764.6	764.6	762.8	761.1	757.7	756.0	757.7
165°	797.3	792.1	790.4	788.7	787.0	785.2	783.5	781.8
167.5°	821.4	814.5	814.5	811.1	811.1	809.3	807.6	807.6
170°	842.1	836.9	836.9	833.4	833.4	831.7	830.0	830.0
172.5°	861.0	857.6	855.8	855.8	855.8	854.1	852.4	852.4
175°	879.9	876.5	874.8	873.1	873.1	871.3	869.6	871.3
177.5°	895.4	893.7	892.0	890.3	890.3	886.8	885.1	883.4
180°	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2

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