

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: P303138

Luminaire Tested: **CTW-F-5050-30L840-UNV-STD-6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303138  
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-5050-30L840-UNV-STD-6  
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE  
50% UPLIGHT, 50% DOWNLIGHT, 3000 LUMEN PACKAGE  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

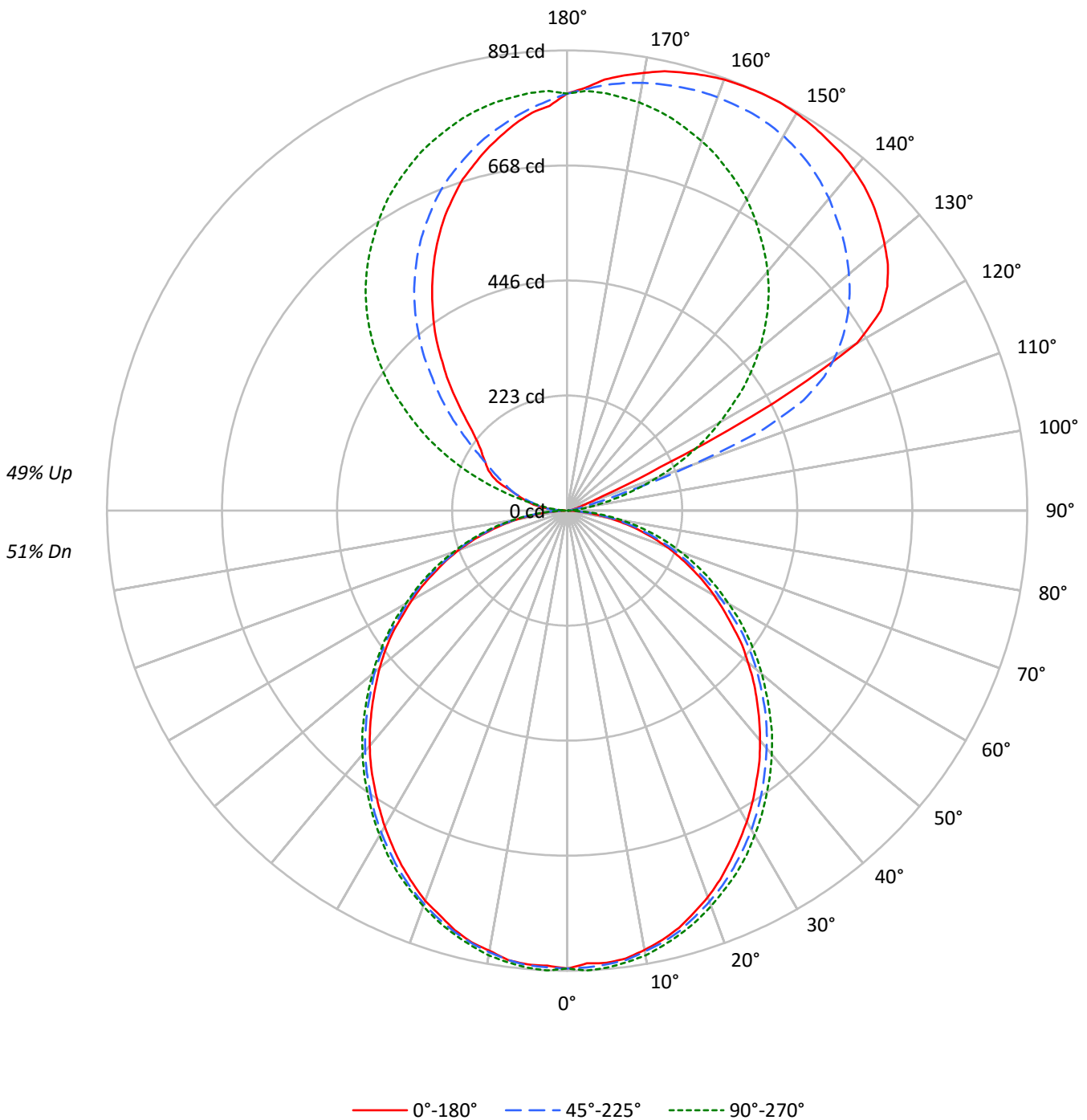
Lumens per Lamp: N/A  
Luminaire Lumens: 4636.1 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32  
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 33.4  
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°	12726	12726	12726
5°	12665	12797	12708
10°	12588	12744	12610
15°	12426	12607	12494
20°	12165	12446	12283
25°	11839	12274	12008
30°	11528	12035	11705
35°	11197	11786	11411
40°	10885	11543	11142
45°	10550	11265	10830
50°	10206	10992	10581
55°	9794	10712	10329
60°	9435	10356	9960
65°	9033	10123	9604
70°	8598	9815	9366
75°	7885	9493	8817
80°	6695	8843	8083
85°	4034	7805	6043



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.7	1.8
10°-20°	237.0	5.1
20°-30°	351.0	7.6
30°-40°	412.1	8.9
40°-50°	417.9	9.0
50°-60°	371.7	8.0
60°-70°	283.4	6.1
70°-80°	168.3	3.6
80°-90°	45.4	1.0
90°-100°	22.2	0.5
100°-110°	94.5	2.0
110°-120°	267.6	5.8
120°-130°	400.5	8.6
130°-140°	432.9	9.3
140°-150°	412.2	8.9
150°-160°	338.1	7.3
160°-170°	221.0	4.8
170°-180°	76.6	1.7
0°-30°	671.8	14.5
0°-40°	1083.9	23.4
0°-60°	1873.5	40.4
0°-90°	2370.7	51.1
90°-120°	384.3	8.3
90°-150°	1629.8	35.2
90°-180°	2265.0	48.9
0°-180°	4636.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	887	887	887	887	887	
5°	879	882	888	884	882	83
15°	836	842	848	844	841	235
25°	748	763	775	769	758	344
35°	639	659	673	665	651	400
45°	520	541	555	547	534	401
55°	391	414	428	422	413	351
65°	266	278	298	292	283	264
75°	142	151	171	165	159	150
85°	24	32	47	43	37	32
90°	2	2	2	3	5	1
95°	5	5	17	34	31	5
105°	21	55	108	83	89	25
115°	199	504	264	144	160	263
125°	757	664	417	234	203	668
135°	838	754	549	373	303	647
145°	878	818	651	517	451	551
155°	891	848	731	631	587	412
165°	878	848	786	720	694	249
175°	838	827	812	783	774	81
180°	807	807	807	807	807	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7
2.5°	877.6	877.6	882.1	883.7	883.7	885.2	886.7	888.3	888.3	888.3	885.2
5°	879.1	879.1	879.1	879.1	879.1	880.6	882.1	883.7	885.2	883.7	882.1
7.5°	874.5	874.5	874.5	874.5	873.0	874.5	874.5	877.6	877.6	877.6	877.6
10°	863.8	863.8	863.8	865.3	863.8	865.3	866.9	868.4	869.9	869.9	866.9
12.5°	851.6	851.6	851.6	853.1	851.6	851.6	854.6	854.6	857.7	856.2	856.2
15°	836.3	836.3	836.3	839.3	837.8	837.8	839.3	840.9	842.4	842.4	842.4
17.5°	816.4	816.4	819.5	821.0	819.5	821.0	821.0	822.5	825.6	825.6	824.0
20°	796.5	796.5	796.5	799.6	798.1	799.6	799.6	802.6	805.7	805.7	805.7
22.5°	773.6	772.1	773.6	775.1	775.1	776.7	776.7	779.7	782.8	784.3	785.8
25°	747.6	747.6	749.1	752.2	752.2	752.2	753.7	756.8	759.8	761.4	762.9
27.5°	721.6	721.6	723.1	726.2	727.7	727.7	727.7	732.3	736.9	738.4	738.4
30°	695.6	695.6	695.6	698.7	700.2	700.2	700.2	704.8	709.4	714.0	714.0
32.5°	668.1	668.1	668.1	672.7	674.2	674.2	674.2	677.3	681.9	684.9	686.5
35°	639.1	639.1	640.6	643.6	645.2	645.2	645.2	648.2	651.3	657.4	658.9
37.5°	611.5	610.0	611.5	614.6	616.1	616.1	614.6	619.2	623.8	628.4	629.9
40°	581.0	579.4	582.5	584.0	585.5	585.5	585.5	590.1	594.7	599.3	600.8
42.5°	550.4	550.4	551.9	553.4	555.0	555.0	556.5	559.6	562.6	568.7	571.8
45°	519.8	518.3	521.3	522.9	525.9	524.4	525.9	527.5	532.0	536.6	541.2
47.5°	489.2	489.2	489.2	490.8	493.8	495.3	495.3	496.9	501.5	506.0	509.1
50°	457.1	457.1	458.7	460.2	463.2	463.2	464.8	466.3	467.8	475.5	478.5
52.5°	426.5	426.5	426.5	428.1	432.7	432.7	432.7	435.7	438.8	441.8	446.4
55°	391.4	392.9	392.9	392.9	397.5	397.5	399.0	400.6	403.6	409.7	414.3
57.5°	359.3	360.8	360.8	362.3	363.9	365.4	366.9	366.9	370.0	373.0	377.6
60°	328.7	330.2	330.2	330.2	333.3	333.3	334.8	336.3	337.9	340.9	345.5
62.5°	298.1	298.1	298.1	298.1	301.2	301.2	302.7	305.8	305.8	308.8	313.4
65°	266.0	267.5	266.0	267.5	269.1	269.1	270.6	273.7	273.7	276.7	278.2
67.5°	235.4	235.4	235.4	237.0	237.0	238.5	238.5	241.6	243.1	244.6	246.1
70°	204.9	204.9	203.3	204.9	206.4	207.9	207.9	209.5	211.0	212.5	215.6
72.5°	172.8	172.8	172.8	174.3	174.3	175.8	175.8	178.9	180.4	181.9	183.5
75°	142.2	142.2	142.2	143.7	143.7	143.7	145.2	146.8	148.3	149.8	151.4
77.5°	111.6	111.6	111.6	113.1	111.6	113.1	113.1	116.2	117.7	119.2	120.8
80°	81.0	81.0	81.0	82.6	84.1	84.1	84.1	85.6	87.1	88.7	90.2
82.5°	52.0	50.5	50.5	52.0	53.5	53.5	55.0	55.0	56.6	58.1	61.2
85°	24.5	24.5	22.9	24.5	26.0	26.0	27.5	27.5	29.0	30.6	32.1
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6	4.6	6.1
90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
92.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
95°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
97.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.2	9.2
100°	10.7	10.7	10.7	10.7	10.7	12.2	12.2	12.2	13.8	15.3	16.8
102.5°	15.3	15.3	15.3	15.3	16.8	16.8	16.8	18.3	19.9	24.5	29.0
105°	21.4	21.4	22.9	22.9	24.5	24.5	26.0	27.5	32.1	39.7	55.0
107.5°	30.6	30.6	32.1	32.1	35.2	36.7	39.7	44.3	56.6	79.5	117.7
110°	44.3	45.9	48.9	50.5	58.1	62.7	68.8	88.7	126.9	186.5	255.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	81.0	82.6	94.8	102.4	125.4	142.2	159.0	215.6	293.5	365.4	411.3
115°	198.7	207.9	224.7	255.3	304.2	339.4	371.5	434.2	484.6	503.0	504.5
117.5°	451.0	458.7	481.6	506.0	538.2	559.6	568.7	582.5	584.0	573.3	561.1
120°	648.2	648.2	648.2	654.3	654.3	657.4	652.8	646.7	632.9	616.1	600.8
122.5°	720.1	717.0	715.5	710.9	704.8	700.2	695.6	683.4	671.2	652.8	634.5
125°	756.8	752.2	750.7	744.5	735.4	732.3	726.2	714.0	700.2	681.9	663.5
127.5°	782.8	778.2	775.1	770.5	761.4	756.8	750.7	738.4	724.7	707.9	689.5
130°	802.6	798.1	795.0	791.9	781.2	778.2	772.1	759.8	746.1	730.8	712.4
132.5°	821.0	817.9	813.3	808.8	802.6	798.1	791.9	781.2	767.5	752.2	733.8
135°	837.8	833.2	830.2	827.1	817.9	814.9	808.8	798.1	785.8	769.0	753.7
137.5°	851.6	847.0	843.9	839.3	833.2	827.1	822.5	813.3	801.1	787.4	770.5
140°	862.3	857.7	854.6	850.0	843.9	839.3	834.7	827.1	816.4	802.6	788.9
142.5°	871.4	865.3	863.8	859.2	853.1	850.0	845.5	837.8	828.6	814.9	804.2
145°	877.6	873.0	871.4	866.9	862.3	857.7	856.2	850.0	839.3	825.6	817.9
147.5°	883.7	879.1	877.6	874.5	868.4	865.3	863.8	856.2	847.0	834.7	828.6
150°	888.3	883.7	882.1	879.1	873.0	871.4	869.9	863.8	854.6	842.4	837.8
152.5°	891.3	885.2	883.7	880.6	876.0	874.5	873.0	866.9	859.2	848.5	843.9
155°	891.3	886.7	885.2	882.1	877.6	876.0	873.0	868.4	860.7	853.1	848.5
157.5°	889.8	886.7	885.2	882.1	876.0	876.0	873.0	868.4	862.3	856.2	850.0
160°	888.3	883.7	883.7	880.6	876.0	876.0	873.0	869.9	862.3	857.7	851.6
162.5°	883.7	880.6	880.6	877.6	874.5	874.5	871.4	868.4	860.7	859.2	851.6
165°	877.6	874.5	874.5	873.0	868.4	868.4	866.9	862.3	857.7	856.2	848.5
167.5°	871.4	866.9	866.9	865.3	860.7	860.7	860.7	857.7	853.1	854.6	845.5
170°	860.7	856.2	856.2	854.6	853.1	853.1	853.1	850.0	845.5	848.5	840.9
172.5°	850.0	848.5	847.0	845.5	843.9	843.9	843.9	842.4	839.3	842.4	834.7
175°	837.8	834.7	834.7	833.2	833.2	833.2	833.2	833.2	830.2	834.7	827.1
177.5°	819.5	816.4	817.9	819.5	819.5	821.0	821.0	821.0	819.5	824.0	816.4
180°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7
2.5°	882.1	885.2	883.7	883.7	883.7	883.7	883.7	885.2	889.8	891.3	891.3
5°	879.1	882.1	880.6	879.1	879.1	879.1	879.1	882.1	886.7	888.3	886.7
7.5°	873.0	876.0	874.5	873.0	874.5	874.5	874.5	877.6	882.1	882.1	882.1
10°	863.8	866.9	865.3	865.3	865.3	865.3	866.9	868.4	873.0	874.5	873.0
12.5°	853.1	854.6	853.1	854.6	854.6	854.6	854.6	856.2	860.7	862.3	862.3
15°	839.3	840.9	839.3	840.9	839.3	840.9	840.9	843.9	847.0	848.5	850.0
17.5°	822.5	822.5	822.5	824.0	824.0	824.0	824.0	827.1	831.7	833.2	833.2
20°	802.6	804.2	805.7	805.7	805.7	807.2	807.2	808.8	814.9	814.9	816.4
22.5°	784.3	784.3	785.8	785.8	787.4	787.4	787.4	788.9	795.0	795.0	795.0
25°	761.4	761.4	764.4	766.0	766.0	766.0	767.5	769.0	775.1	775.1	775.1
27.5°	736.9	736.9	741.5	740.0	741.5	743.0	744.5	747.6	750.7	752.2	752.2
30°	712.4	712.4	715.5	715.5	717.0	717.0	718.6	721.6	726.2	726.2	727.7
32.5°	688.0	688.0	689.5	691.0	692.6	691.0	692.6	695.6	700.2	700.2	701.7
35°	660.5	658.9	662.0	663.5	663.5	665.0	665.0	668.1	672.7	672.7	674.2
37.5°	632.9	631.4	634.5	636.0	637.5	637.5	637.5	640.6	643.6	645.2	646.7
40°	603.9	602.4	607.0	608.5	608.5	608.5	608.5	611.5	614.6	616.1	617.7
42.5°	571.8	573.3	576.4	579.4	579.4	579.4	581.0	581.0	585.5	587.1	588.6
45°	542.7	544.3	545.8	550.4	548.9	547.3	550.4	550.4	555.0	555.0	556.5
47.5°	512.2	513.7	513.7	518.3	518.3	516.7	519.8	519.8	522.9	522.9	525.9
50°	481.6	483.1	483.1	487.7	487.7	486.2	489.2	489.2	492.3	492.3	495.3
52.5°	448.0	451.0	451.0	455.6	457.1	455.6	457.1	457.1	460.2	460.2	463.2
55°	415.8	418.9	420.4	422.0	425.0	423.5	425.0	426.5	429.6	428.1	431.1
57.5°	382.2	382.2	385.3	386.8	388.3	388.3	392.9	391.4	391.4	396.0	397.5
60°	348.6	350.1	353.2	354.7	356.2	356.2	357.7	359.3	360.8	360.8	363.9
62.5°	316.5	319.5	321.1	322.6	324.1	322.6	327.2	328.7	330.2	330.2	330.2
65°	284.4	285.9	289.0	290.5	290.5	290.5	295.1	296.6	296.6	298.1	298.1
67.5°	250.7	253.8	256.8	256.8	259.9	258.4	263.0	264.5	264.5	266.0	267.5
70°	218.6	220.2	223.2	224.7	227.8	226.3	229.3	230.9	232.4	233.9	235.4
72.5°	186.5	188.0	191.1	192.6	194.2	195.7	197.2	200.3	201.8	203.3	203.3
75°	154.4	155.9	159.0	160.5	162.1	163.6	165.1	168.2	168.2	171.2	171.2
77.5°	123.8	125.4	126.9	128.4	131.5	133.0	134.5	136.1	137.6	139.1	139.1
80°	93.3	93.3	96.3	97.8	100.9	100.9	102.4	104.0	107.0	107.0	107.0
82.5°	62.7	64.2	65.7	67.3	70.3	70.3	71.9	74.9	76.4	76.4	76.4
85°	33.6	35.2	38.2	39.7	41.3	41.3	44.3	45.9	47.4	47.4	47.4
87.5°	7.6	9.2	10.7	12.2	15.3	16.8	16.8	18.3	19.9	19.9	19.9
90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
92.5°	3.1	3.1	3.1	3.1	3.1	4.6	6.1	7.6	7.6	6.1	7.6
95°	6.1	6.1	7.6	10.7	13.8	15.3	21.4	22.9	19.9	16.8	16.8
97.5°	10.7	13.8	18.3	27.5	33.6	38.2	45.9	42.8	36.7	32.1	29.0
100°	21.4	29.0	39.7	58.1	67.3	74.9	78.0	70.3	61.2	52.0	45.9
102.5°	38.2	58.1	82.6	111.6	120.8	123.8	122.3	107.0	91.7	76.4	67.3
105°	79.5	116.2	159.0	180.4	185.0	181.9	166.6	149.8	128.4	108.5	93.3
107.5°	171.2	223.2	250.7	253.8	249.2	240.0	217.1	194.2	168.2	145.2	123.8
110°	304.2	331.8	331.8	318.0	305.8	295.1	266.0	240.0	211.0	183.5	160.5





TEST NUMBER: P303138

CATALOG NUMBER: CTW-F-5050-30L840-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	418.9	414.3	394.4	370.0	356.2	342.5	311.9	284.4	252.3	224.7	197.2
115°	490.8	469.4	444.9	417.4	402.1	385.3	357.7	325.6	292.0	264.5	235.4
117.5°	538.2	513.7	486.2	460.2	444.9	432.7	400.6	363.9	333.3	304.2	275.2
120°	576.4	550.4	524.4	498.4	484.6	470.9	437.2	405.1	370.0	340.9	313.4
122.5°	608.5	584.0	558.0	533.6	519.8	504.5	473.9	441.8	412.8	377.6	351.6
125°	640.6	617.7	590.1	567.2	551.9	535.1	507.6	475.5	446.4	417.4	389.9
127.5°	668.1	645.2	622.2	596.2	581.0	565.7	538.2	507.6	480.1	452.5	426.5
130°	692.6	672.7	648.2	622.2	607.0	593.2	565.7	538.2	512.2	486.2	460.2
132.5°	718.6	695.6	672.7	646.7	632.9	619.2	594.7	568.7	542.7	518.3	493.8
135°	740.0	717.0	692.6	666.6	655.9	643.6	620.7	596.2	571.8	548.9	525.9
137.5°	759.8	733.8	710.9	686.5	677.3	666.6	643.6	620.7	599.3	577.9	555.0
140°	775.1	749.1	727.7	706.3	697.2	686.5	663.5	645.2	625.3	603.9	582.5
142.5°	787.4	762.9	741.5	723.1	714.0	706.3	684.9	666.6	648.2	628.4	608.5
145°	798.1	776.7	756.8	738.4	732.3	723.1	703.3	688.0	671.2	651.3	632.9
147.5°	807.2	788.9	770.5	753.7	746.1	738.4	720.1	706.3	689.5	674.2	655.9
150°	816.4	799.6	782.8	767.5	761.4	753.7	735.4	723.1	710.9	695.6	678.8
152.5°	822.5	807.2	791.9	779.7	773.6	767.5	750.7	741.5	727.7	714.0	698.7
155°	828.6	814.9	801.1	790.4	785.8	779.7	766.0	756.8	744.5	730.8	717.0
157.5°	833.2	821.0	808.8	799.6	795.0	790.4	776.7	770.5	759.8	747.6	733.8
160°	834.7	824.0	814.9	807.2	802.6	798.1	787.4	781.2	772.1	761.4	749.1
162.5°	834.7	827.1	817.9	813.3	808.8	804.2	795.0	790.4	782.8	773.6	762.9
165°	834.7	828.6	821.0	816.4	813.3	810.3	802.6	798.1	790.4	785.8	775.1
167.5°	834.7	828.6	822.5	819.5	816.4	813.3	808.8	805.7	799.6	795.0	785.8
170°	831.7	825.6	822.5	821.0	817.9	816.4	811.8	810.3	805.7	802.6	795.0
172.5°	827.1	822.5	821.0	819.5	817.9	816.4	813.3	811.8	808.8	807.2	802.6
175°	821.0	817.9	816.4	816.4	816.4	814.9	811.8	813.3	811.8	811.8	807.2
177.5°	811.8	810.3	810.3	810.3	811.8	810.3	810.3	811.8	811.8	813.3	810.3
180°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2



TEST NUMBER: P303138

CATALOG NUMBER: CTW-F-5050-30L840-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7
2.5°	889.8	886.7	885.2	885.2	883.7	880.6	880.6	882.1	885.2	891.3	886.7
5°	886.7	885.2	880.6	880.6	880.6	879.1	876.0	879.1	883.7	888.3	882.1
7.5°	880.6	879.1	876.0	876.0	876.0	873.0	871.4	874.5	877.6	880.6	876.0
10°	873.0	869.9	868.4	866.9	866.9	863.8	862.3	865.3	868.4	871.4	868.4
12.5°	862.3	859.2	856.2	856.2	854.6	853.1	851.6	854.6	857.7	860.7	857.7
15°	848.5	845.5	842.4	842.4	842.4	837.8	837.8	839.3	843.9	845.5	840.9
17.5°	833.2	828.6	825.6	827.1	825.6	821.0	822.5	822.5	828.6	828.6	825.6
20°	814.9	810.3	808.8	808.8	807.2	804.2	804.2	805.7	810.3	808.8	805.7
22.5°	795.0	790.4	790.4	788.9	788.9	784.3	784.3	785.8	790.4	787.4	784.3
25°	773.6	770.5	769.0	769.0	766.0	762.9	762.9	764.4	769.0	764.4	762.9
27.5°	749.1	747.6	746.1	746.1	743.0	740.0	741.5	741.5	744.5	741.5	738.4
30°	726.2	723.1	721.6	721.6	718.6	714.0	715.5	715.5	720.1	715.5	715.5
32.5°	701.7	697.2	697.2	695.6	692.6	689.5	691.0	692.6	694.1	688.0	689.5
35°	674.2	669.6	669.6	668.1	665.0	663.5	663.5	665.0	665.0	660.5	660.5
37.5°	646.7	643.6	642.1	640.6	637.5	636.0	637.5	639.1	637.5	632.9	632.9
40°	617.7	614.6	611.5	611.5	610.0	608.5	608.5	611.5	608.5	603.9	603.9
42.5°	588.6	585.5	582.5	582.5	581.0	581.0	581.0	582.5	577.9	576.4	573.3
45°	558.0	555.0	551.9	551.9	550.4	550.4	550.4	550.4	547.3	545.8	544.3
47.5°	527.5	524.4	521.3	521.3	519.8	521.3	521.3	519.8	515.2	515.2	513.7
50°	496.9	493.8	490.8	490.8	490.8	490.8	490.8	489.2	486.2	484.6	483.1
52.5°	464.8	461.7	458.7	460.2	458.7	460.2	458.7	457.1	454.1	452.5	451.0
55°	432.7	429.6	428.1	429.6	428.1	428.1	426.5	425.0	422.0	422.0	418.9
57.5°	399.0	394.4	394.4	396.0	394.4	394.4	391.4	389.9	386.8	386.8	383.7
60°	363.9	362.3	362.3	362.3	362.3	360.8	359.3	359.3	356.2	354.7	351.6
62.5°	331.8	331.8	330.2	331.8	328.7	328.7	327.2	325.6	324.1	322.6	321.1
65°	299.7	298.1	298.1	296.6	296.6	296.6	295.1	293.5	292.0	290.5	289.0
67.5°	266.0	266.0	266.0	266.0	264.5	264.5	263.0	261.4	258.4	259.9	256.8
70°	233.9	233.9	233.9	233.9	232.4	232.4	230.9	229.3	226.3	227.8	226.3
72.5°	201.8	201.8	201.8	201.8	200.3	200.3	197.2	197.2	197.2	195.7	194.2
75°	169.7	169.7	169.7	168.2	168.2	168.2	165.1	165.1	165.1	165.1	162.1
77.5°	137.6	139.1	137.6	137.6	136.1	136.1	136.1	134.5	134.5	133.0	131.5
80°	105.5	107.0	107.0	107.0	105.5	105.5	105.5	104.0	102.4	102.4	100.9
82.5°	78.0	76.4	76.4	76.4	74.9	74.9	74.9	73.4	73.4	71.9	70.3
85°	47.4	47.4	47.4	47.4	45.9	45.9	44.3	42.8	42.8	39.7	39.7
87.5°	21.4	19.9	19.9	19.9	19.9	18.3	16.8	15.3	15.3	13.8	13.8
90°	1.5	1.5	3.1	1.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1
92.5°	10.7	13.8	15.3	16.8	15.3	16.8	16.8	16.8	15.3	15.3	15.3
95°	18.3	21.4	26.0	27.5	29.0	32.1	33.6	33.6	33.6	32.1	32.1
97.5°	29.0	32.1	33.6	35.2	35.2	39.7	42.8	45.9	48.9	48.9	50.5
100°	44.3	42.8	45.9	48.9	48.9	48.9	50.5	53.5	56.6	58.1	61.2
102.5°	62.7	58.1	58.1	59.6	61.2	65.7	64.2	65.7	67.3	68.8	70.3
105°	84.1	79.5	74.9	74.9	74.9	78.0	82.6	85.6	82.6	82.6	84.1
107.5°	111.6	102.4	94.8	93.3	93.3	91.7	94.8	99.4	102.4	104.0	102.4
110°	142.2	128.4	120.8	113.1	111.6	110.1	110.1	111.6	116.2	120.8	123.8



TEST NUMBER: P303138

CATALOG NUMBER: CTW-F-5050-30L840-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	177.3	160.5	146.8	140.7	134.5	128.4	126.9	126.9	128.4	133.0	136.1
115°	214.0	194.2	175.8	168.2	163.6	151.4	145.2	142.2	143.7	145.2	148.3
117.5°	252.3	230.9	209.5	200.3	194.2	180.4	168.2	163.6	160.5	159.0	162.1
120°	290.5	269.1	247.7	235.4	226.3	211.0	197.2	185.0	178.9	175.8	174.3
122.5°	327.2	305.8	284.4	272.1	263.0	243.1	229.3	214.0	203.3	195.7	191.1
125°	363.9	342.5	321.1	308.8	299.7	278.2	261.4	247.7	233.9	221.7	212.5
127.5°	400.6	377.6	356.2	345.5	336.3	313.4	295.1	281.3	267.5	253.8	241.6
130°	437.2	417.4	394.4	380.7	373.0	350.1	331.8	314.9	302.7	289.0	273.7
132.5°	469.4	451.0	429.6	418.9	408.2	385.3	370.0	351.6	337.9	324.1	310.4
135°	503.0	483.1	461.7	452.5	443.4	425.0	406.7	388.3	373.0	359.3	345.5
137.5°	532.0	515.2	493.8	484.6	475.5	458.7	441.8	428.1	412.8	397.5	380.7
140°	561.1	542.7	524.4	515.2	506.0	492.3	475.5	463.2	448.0	435.7	418.9
142.5°	587.1	568.7	553.4	544.3	535.1	521.3	506.0	495.3	483.1	469.4	458.7
145°	613.1	596.2	581.0	571.8	564.1	550.4	535.1	527.5	516.7	503.0	490.8
147.5°	636.0	620.7	605.4	597.8	591.7	577.9	565.7	556.5	547.3	535.1	524.4
150°	658.9	643.6	629.9	623.8	616.1	605.4	594.7	584.0	577.9	565.7	556.5
152.5°	680.3	666.6	652.8	648.2	642.1	629.9	619.2	610.0	605.4	594.7	587.1
155°	701.7	688.0	674.2	671.2	665.0	654.3	643.6	636.0	631.4	620.7	613.1
157.5°	720.1	706.3	695.6	691.0	684.9	675.7	666.6	660.5	657.4	648.2	640.6
160°	736.9	724.7	714.0	709.4	704.8	695.6	689.5	681.9	680.3	672.7	666.6
162.5°	750.7	740.0	730.8	727.7	723.1	715.5	709.4	701.7	700.2	695.6	689.5
165°	764.4	753.7	746.1	743.0	740.0	732.3	727.7	721.6	720.1	717.0	710.9
167.5°	776.7	767.5	759.8	758.3	755.2	749.1	746.1	740.0	738.4	736.9	730.8
170°	785.8	778.2	772.1	770.5	767.5	762.9	759.8	755.2	753.7	752.2	749.1
172.5°	793.5	787.4	782.8	781.2	779.7	776.7	773.6	770.5	769.0	772.1	766.0
175°	801.1	795.0	791.9	790.4	790.4	787.4	785.8	782.8	782.8	785.8	781.2
177.5°	805.7	801.1	798.1	798.1	796.5	795.0	795.0	791.9	795.0	798.1	793.5
180°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2



TEST NUMBER: P303138

CATALOG NUMBER: CTW-F-5050-30L840-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7
2.5°	889.8	886.7	886.7	885.2	883.7	882.1	882.1	882.1
5°	885.2	883.7	882.1	879.1	879.1	880.6	882.1	882.1
7.5°	877.6	877.6	876.0	874.5	873.0	876.0	876.0	877.6
10°	869.9	868.4	866.9	865.3	863.8	865.3	865.3	865.3
12.5°	857.7	856.2	854.6	851.6	851.6	853.1	853.1	856.2
15°	843.9	842.4	839.3	839.3	837.8	839.3	839.3	840.9
17.5°	827.1	824.0	822.5	821.0	821.0	822.5	822.5	821.0
20°	807.2	804.2	801.1	799.6	799.6	801.1	801.1	804.2
22.5°	784.3	781.2	779.7	778.2	778.2	779.7	779.7	781.2
25°	762.9	759.8	758.3	756.8	756.8	756.8	756.8	758.3
27.5°	740.0	735.4	732.3	732.3	730.8	730.8	730.8	732.3
30°	712.4	707.9	706.3	706.3	704.8	704.8	704.8	706.3
32.5°	684.9	681.9	680.3	678.8	677.3	678.8	677.3	678.8
35°	657.4	652.8	652.8	652.8	651.3	651.3	649.8	651.3
37.5°	629.9	625.3	623.8	623.8	622.2	622.2	622.2	623.8
40°	600.8	596.2	596.2	594.7	593.2	593.2	593.2	594.7
42.5°	570.3	567.2	565.7	565.7	564.1	564.1	564.1	564.1
45°	539.7	535.1	535.1	536.6	533.6	533.6	533.6	533.6
47.5°	509.1	506.0	506.0	506.0	503.0	503.0	503.0	503.0
50°	478.5	477.0	475.5	475.5	475.5	473.9	473.9	473.9
52.5°	448.0	446.4	444.9	446.4	443.4	443.4	443.4	443.4
55°	415.8	414.3	414.3	415.8	412.8	412.8	411.3	412.8
57.5°	380.7	379.2	379.2	379.2	379.2	377.6	377.6	377.6
60°	350.1	348.6	348.6	348.6	347.0	347.0	347.0	347.0
62.5°	318.0	318.0	318.0	316.5	316.5	314.9	314.9	316.5
65°	287.4	285.9	285.9	285.9	284.4	284.4	282.8	282.8
67.5°	255.3	255.3	255.3	253.8	253.8	252.3	252.3	253.8
70°	224.7	224.7	223.2	223.2	223.2	221.7	221.7	223.2
72.5°	194.2	192.6	192.6	191.1	192.6	189.6	189.6	191.1
75°	162.1	162.1	160.5	160.5	160.5	159.0	159.0	159.0
77.5°	131.5	131.5	130.0	130.0	130.0	128.4	128.4	128.4
80°	100.9	99.4	99.4	99.4	99.4	97.8	96.3	97.8
82.5°	68.8	68.8	68.8	68.8	67.3	65.7	64.2	65.7
85°	39.7	38.2	38.2	39.7	38.2	38.2	38.2	36.7
87.5°	13.8	12.2	12.2	12.2	12.2	13.8	12.2	12.2
90°	3.1	3.1	3.1	4.6	4.6	4.6	4.6	4.6
92.5°	15.3	15.3	13.8	13.8	13.8	13.8	12.2	12.2
95°	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
97.5°	50.5	50.5	48.9	48.9	48.9	48.9	48.9	48.9
100°	62.7	64.2	64.2	64.2	65.7	65.7	65.7	65.7
102.5°	73.4	73.4	74.9	74.9	74.9	76.4	76.4	76.4
105°	84.1	85.6	85.6	85.6	87.1	87.1	88.7	88.7
107.5°	100.9	100.9	100.9	100.9	102.4	102.4	102.4	102.4
110°	123.8	123.8	122.3	120.8	120.8	120.8	119.2	119.2



TEST NUMBER: P303138

CATALOG NUMBER: CTW-F-5050-30L840-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	139.1	142.2	142.2	143.7	145.2	145.2	145.2	145.2
115°	151.4	154.4	155.9	157.5	159.0	159.0	160.5	160.5
117.5°	163.6	165.1	166.6	168.2	169.7	171.2	171.2	172.8
120°	175.8	177.3	178.9	178.9	180.4	181.9	181.9	181.9
122.5°	189.6	191.1	189.6	189.6	191.1	191.1	191.1	192.6
125°	207.9	206.4	204.9	204.9	203.3	203.3	203.3	203.3
127.5°	232.4	229.3	226.3	223.2	221.7	220.2	218.6	218.6
130°	263.0	256.8	252.3	249.2	246.1	243.1	240.0	240.0
132.5°	298.1	290.5	285.9	281.3	276.7	272.1	267.5	269.1
135°	334.8	328.7	322.6	318.0	311.9	305.8	302.7	302.7
137.5°	370.0	362.3	357.7	354.7	350.1	344.0	339.4	340.9
140°	409.7	396.0	392.9	389.9	385.3	379.2	376.1	376.1
142.5°	444.9	434.2	431.1	429.6	423.5	417.4	414.3	415.8
145°	480.1	469.4	467.8	464.8	460.2	454.1	451.0	451.0
147.5°	513.7	504.5	503.0	499.9	495.3	489.2	486.2	486.2
150°	547.3	538.2	535.1	533.6	529.0	522.9	519.8	521.3
152.5°	577.9	568.7	567.2	565.7	559.6	556.5	553.4	555.0
155°	607.0	597.8	596.2	594.7	591.7	587.1	585.5	587.1
157.5°	634.5	626.8	625.3	623.8	620.7	616.1	614.6	617.7
160°	660.5	654.3	652.8	651.3	649.8	646.7	643.6	645.2
162.5°	684.9	678.8	678.8	677.3	675.7	672.7	671.2	672.7
165°	707.9	703.3	701.7	700.2	698.7	697.2	695.6	694.1
167.5°	729.3	723.1	723.1	720.1	720.1	718.6	717.0	717.0
170°	747.6	743.0	743.0	740.0	740.0	738.4	736.9	736.9
172.5°	764.4	761.4	759.8	759.8	759.8	758.3	756.8	756.8
175°	781.2	778.2	776.7	775.1	775.1	773.6	772.1	773.6
177.5°	795.0	793.5	791.9	790.4	790.4	787.4	785.8	784.3
180°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2

(END OF REPORT)