

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: P303137

Luminaire Tested: **CTW-F-5050-30L835-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303137
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-5050-30L835-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 3000 LUMEN PACKAGE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

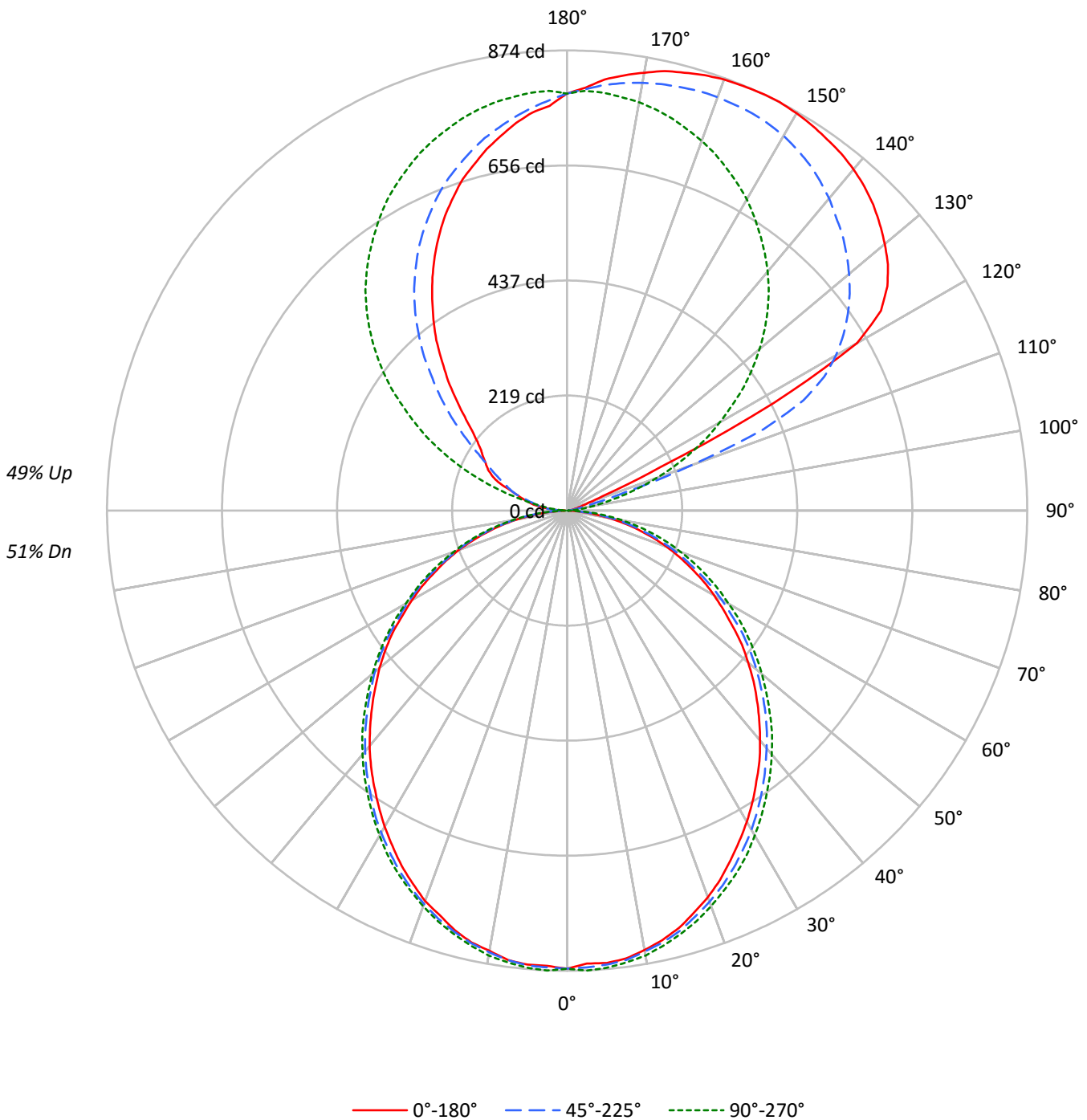
Lumens per Lamp: N/A
Luminaire Lumens: 4548.6 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: General Diffuse

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°	12486	12486	12486
5°	12426	12555	12469
10°	12351	12504	12373
15°	12191	12369	12258
20°	11936	12211	12050
25°	11615	12043	11782
30°	11310	11808	11484
35°	10985	11563	11196
40°	10679	11325	10932
45°	10351	11052	10625
50°	10014	10784	10382
55°	9608	10509	10134
60°	9257	10161	9774
65°	8863	9933	9424
70°	8434	9630	9190
75°	7735	9316	8650
80°	6571	8678	7934
85°	3952	7657	5928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	1.8
10°-20°	232.6	5.1
20°-30°	344.4	7.6
30°-40°	404.4	8.9
40°-50°	410.0	9.0
50°-60°	364.7	8.0
60°-70°	278.0	6.1
70°-80°	165.2	3.6
80°-90°	44.6	1.0
90°-100°	21.7	0.5
100°-110°	92.7	2.0
110°-120°	262.6	5.8
120°-130°	392.9	8.6
130°-140°	424.7	9.3
140°-150°	404.4	8.9
150°-160°	331.7	7.3
160°-170°	216.8	4.8
170°-180°	75.1	1.7
0°-30°	659.1	14.5
0°-40°	1063.4	23.4
0°-60°	1838.2	40.4
0°-90°	2326.0	51.1
90°-120°	377.0	8.3
90°-150°	1599.1	35.2
90°-180°	2223.0	48.9
0°-180°	4548.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	870	870	870	870	870	
5°	862	866	872	867	866	82
15°	820	826	832	828	825	231
25°	734	748	760	754	744	338
35°	627	646	660	652	639	393
45°	510	531	544	537	524	394
55°	384	406	420	414	405	344
65°	261	273	292	286	278	259
75°	140	148	168	162	156	147
85°	24	32	46	42	36	32
90°	2	2	2	3	4	1
95°	4	4	16	33	30	5
105°	21	54	106	81	87	24
115°	195	495	260	141	158	258
125°	742	651	410	230	200	656
135°	822	740	538	366	297	634
145°	861	802	639	507	442	540
155°	874	832	717	620	576	404
165°	861	832	771	706	681	244
175°	822	812	796	768	759	79
180°	792	792	792	792	792	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0
2.5°	861.0	861.0	865.5	867.0	867.0	868.5	870.0	871.5	871.5	871.5	868.5
5°	862.5	862.5	862.5	862.5	862.5	864.0	865.5	867.0	868.5	867.0	865.5
7.5°	858.0	858.0	858.0	858.0	856.5	858.0	858.0	861.0	861.0	861.0	861.0
10°	847.5	847.5	847.5	849.0	847.5	849.0	850.5	852.0	853.5	853.5	850.5
12.5°	835.5	835.5	835.5	837.0	835.5	835.5	838.5	838.5	841.5	840.0	840.0
15°	820.5	820.5	820.5	823.5	822.0	822.0	823.5	825.0	826.5	826.5	826.5
17.5°	801.0	801.0	804.0	805.5	804.0	805.5	805.5	807.0	810.0	810.0	808.5
20°	781.5	781.5	781.5	784.5	783.0	784.5	784.5	787.5	790.5	790.5	790.5
22.5°	759.0	757.5	759.0	760.5	760.5	762.0	762.0	765.0	768.0	769.5	771.0
25°	733.5	733.5	735.0	738.0	738.0	738.0	739.5	742.5	745.5	747.0	748.5
27.5°	708.0	708.0	709.5	712.5	714.0	714.0	714.0	718.5	723.0	724.5	724.5
30°	682.5	682.5	682.5	685.5	687.0	687.0	687.0	691.5	696.0	700.5	700.5
32.5°	655.5	655.5	655.5	660.0	661.5	661.5	661.5	664.5	669.0	672.0	673.5
35°	627.0	627.0	628.5	631.5	633.0	633.0	633.0	636.0	639.0	645.0	646.5
37.5°	600.0	598.5	600.0	603.0	604.5	604.5	603.0	607.5	612.0	616.5	618.0
40°	570.0	568.5	571.5	573.0	574.5	574.5	574.5	579.0	583.5	588.0	589.5
42.5°	540.0	540.0	541.5	543.0	544.5	544.5	546.0	549.0	552.0	558.0	561.0
45°	510.0	508.5	511.5	513.0	516.0	514.5	516.0	517.5	522.0	526.5	531.0
47.5°	480.0	480.0	480.0	481.5	484.5	486.0	486.0	487.5	492.0	496.5	499.5
50°	448.5	448.5	450.0	451.5	454.5	454.5	456.0	457.5	459.0	466.5	469.5
52.5°	418.5	418.5	418.5	420.0	424.5	424.5	424.5	427.5	430.5	433.5	438.0
55°	384.0	385.5	385.5	385.5	390.0	390.0	391.5	393.0	396.0	402.0	406.5
57.5°	352.5	354.0	354.0	355.5	357.0	358.5	360.0	360.0	363.0	366.0	370.5
60°	322.5	324.0	324.0	324.0	327.0	327.0	328.5	330.0	331.5	334.5	339.0
62.5°	292.5	292.5	292.5	292.5	295.5	295.5	297.0	300.0	300.0	303.0	307.5
65°	261.0	262.5	261.0	262.5	264.0	264.0	265.5	268.5	268.5	271.5	273.0
67.5°	231.0	231.0	231.0	232.5	232.5	234.0	234.0	237.0	238.5	240.0	241.5
70°	201.0	201.0	199.5	201.0	202.5	204.0	204.0	205.5	207.0	208.5	211.5
72.5°	169.5	169.5	169.5	171.0	171.0	172.5	172.5	175.5	177.0	178.5	180.0
75°	139.5	139.5	139.5	141.0	141.0	141.0	142.5	144.0	145.5	147.0	148.5
77.5°	109.5	109.5	109.5	111.0	109.5	111.0	111.0	114.0	115.5	117.0	118.5
80°	79.5	79.5	79.5	81.0	82.5	82.5	82.5	84.0	85.5	87.0	88.5
82.5°	51.0	49.5	49.5	51.0	52.5	52.5	54.0	54.0	55.5	57.0	60.0
85°	24.0	24.0	22.5	24.0	25.5	25.5	27.0	27.0	28.5	30.0	31.5
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	4.5	6.0
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°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
95°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
97.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.0	9.0
100°	10.5	10.5	10.5	10.5	10.5	12.0	12.0	12.0	13.5	15.0	16.5
102.5°	15.0	15.0	15.0	15.0	16.5	16.5	16.5	18.0	19.5	24.0	28.5
105°	21.0	21.0	22.5	22.5	24.0	24.0	25.5	27.0	31.5	39.0	54.0
107.5°	30.0	30.0	31.5	31.5	34.5	36.0	39.0	43.5	55.5	78.0	115.5
110°	43.5	45.0	48.0	49.5	57.0	61.5	67.5	87.0	124.5	183.0	250.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	79.5	81.0	93.0	100.5	123.0	139.5	156.0	211.5	288.0	358.5	403.5
115°	195.0	204.0	220.5	250.5	298.5	333.0	364.5	426.0	475.5	493.5	495.0
117.5°	442.5	450.0	472.5	496.5	528.0	549.0	558.0	571.5	573.0	562.5	550.5
120°	636.0	636.0	636.0	642.0	642.0	645.0	640.5	634.5	621.0	604.5	589.5
122.5°	706.5	703.5	702.0	697.5	691.5	687.0	682.5	670.5	658.5	640.5	622.5
125°	742.5	738.0	736.5	730.5	721.5	718.5	712.5	700.5	687.0	669.0	651.0
127.5°	768.0	763.5	760.5	756.0	747.0	742.5	736.5	724.5	711.0	694.5	676.5
130°	787.5	783.0	780.0	777.0	766.5	763.5	757.5	745.5	732.0	717.0	699.0
132.5°	805.5	802.5	798.0	793.5	787.5	783.0	777.0	766.5	753.0	738.0	720.0
135°	822.0	817.5	814.5	811.5	802.5	799.5	793.5	783.0	771.0	754.5	739.5
137.5°	835.5	831.0	828.0	823.5	817.5	811.5	807.0	798.0	786.0	772.5	756.0
140°	846.0	841.5	838.5	834.0	828.0	823.5	819.0	811.5	801.0	787.5	774.0
142.5°	855.0	849.0	847.5	843.0	837.0	834.0	829.5	822.0	813.0	799.5	789.0
145°	861.0	856.5	855.0	850.5	846.0	841.5	840.0	834.0	823.5	810.0	802.5
147.5°	867.0	862.5	861.0	858.0	852.0	849.0	847.5	840.0	831.0	819.0	813.0
150°	871.5	867.0	865.5	862.5	856.5	855.0	853.5	847.5	838.5	826.5	822.0
152.5°	874.5	868.5	867.0	864.0	859.5	858.0	856.5	850.5	843.0	832.5	828.0
155°	874.5	870.0	868.5	865.5	861.0	859.5	856.5	852.0	844.5	837.0	832.5
157.5°	873.0	870.0	868.5	865.5	859.5	859.5	856.5	852.0	846.0	840.0	834.0
160°	871.5	867.0	867.0	864.0	859.5	859.5	856.5	853.5	846.0	841.5	835.5
162.5°	867.0	864.0	864.0	861.0	858.0	858.0	855.0	852.0	844.5	843.0	835.5
165°	861.0	858.0	858.0	856.5	852.0	852.0	850.5	846.0	841.5	840.0	832.5
167.5°	855.0	850.5	850.5	849.0	844.5	844.5	844.5	841.5	837.0	838.5	829.5
170°	844.5	840.0	840.0	838.5	837.0	837.0	837.0	834.0	829.5	832.5	825.0
172.5°	834.0	832.5	831.0	829.5	828.0	828.0	828.0	826.5	823.5	826.5	819.0
175°	822.0	819.0	819.0	817.5	817.5	817.5	817.5	817.5	814.5	819.0	811.5
177.5°	804.0	801.0	802.5	804.0	804.0	805.5	805.5	805.5	804.0	808.5	801.0
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0
2.5°	865.5	868.5	867.0	867.0	867.0	867.0	867.0	868.5	873.0	874.5	874.5
5°	862.5	865.5	864.0	862.5	862.5	862.5	862.5	865.5	870.0	871.5	870.0
7.5°	856.5	859.5	858.0	856.5	858.0	858.0	858.0	861.0	865.5	865.5	865.5
10°	847.5	850.5	849.0	849.0	849.0	849.0	850.5	852.0	856.5	858.0	856.5
12.5°	837.0	838.5	837.0	838.5	838.5	838.5	838.5	840.0	844.5	846.0	846.0
15°	823.5	825.0	823.5	825.0	823.5	825.0	825.0	828.0	831.0	832.5	834.0
17.5°	807.0	807.0	807.0	808.5	808.5	808.5	808.5	811.5	816.0	817.5	817.5
20°	787.5	789.0	790.5	790.5	790.5	792.0	792.0	793.5	799.5	799.5	801.0
22.5°	769.5	769.5	771.0	771.0	772.5	772.5	772.5	774.0	780.0	780.0	780.0
25°	747.0	747.0	750.0	751.5	751.5	751.5	753.0	754.5	760.5	760.5	760.5
27.5°	723.0	723.0	727.5	726.0	727.5	729.0	730.5	733.5	736.5	738.0	738.0
30°	699.0	699.0	702.0	702.0	703.5	703.5	705.0	708.0	712.5	712.5	714.0
32.5°	675.0	675.0	676.5	678.0	679.5	678.0	679.5	682.5	687.0	687.0	688.5
35°	648.0	646.5	649.5	651.0	651.0	652.5	652.5	655.5	660.0	660.0	661.5
37.5°	621.0	619.5	622.5	624.0	625.5	625.5	625.5	628.5	631.5	633.0	634.5
40°	592.5	591.0	595.5	597.0	597.0	597.0	597.0	600.0	603.0	604.5	606.0
42.5°	561.0	562.5	565.5	568.5	568.5	568.5	570.0	570.0	574.5	576.0	577.5
45°	532.5	534.0	535.5	540.0	538.5	537.0	540.0	540.0	544.5	544.5	546.0
47.5°	502.5	504.0	504.0	508.5	508.5	507.0	510.0	510.0	513.0	513.0	516.0
50°	472.5	474.0	474.0	478.5	478.5	477.0	480.0	480.0	483.0	483.0	486.0
52.5°	439.5	442.5	442.5	447.0	448.5	447.0	448.5	448.5	451.5	451.5	454.5
55°	408.0	411.0	412.5	414.0	417.0	415.5	417.0	418.5	421.5	420.0	423.0
57.5°	375.0	375.0	378.0	379.5	381.0	381.0	385.5	384.0	384.0	388.5	390.0
60°	342.0	343.5	346.5	348.0	349.5	349.5	351.0	352.5	354.0	354.0	357.0
62.5°	310.5	313.5	315.0	316.5	318.0	316.5	321.0	322.5	324.0	324.0	324.0
65°	279.0	280.5	283.5	285.0	285.0	285.0	289.5	291.0	291.0	292.5	292.5
67.5°	246.0	249.0	252.0	252.0	255.0	253.5	258.0	259.5	259.5	261.0	262.5
70°	214.5	216.0	219.0	220.5	223.5	222.0	225.0	226.5	228.0	229.5	231.0
72.5°	183.0	184.5	187.5	189.0	190.5	192.0	193.5	196.5	198.0	199.5	199.5
75°	151.5	153.0	156.0	157.5	159.0	160.5	162.0	165.0	165.0	168.0	168.0
77.5°	121.5	123.0	124.5	126.0	129.0	130.5	132.0	133.5	135.0	136.5	136.5
80°	91.5	91.5	94.5	96.0	99.0	99.0	100.5	102.0	105.0	105.0	105.0
82.5°	61.5	63.0	64.5	66.0	69.0	69.0	70.5	73.5	75.0	75.0	75.0
85°	33.0	34.5	37.5	39.0	40.5	40.5	43.5	45.0	46.5	46.5	46.5
87.5°	7.5	9.0	10.5	12.0	15.0	16.5	16.5	18.0	19.5	19.5	19.5
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°	3.0	3.0	3.0	3.0	3.0	4.5	6.0	7.5	7.5	6.0	7.5
95°	6.0	6.0	7.5	10.5	13.5	15.0	21.0	22.5	19.5	16.5	16.5
97.5°	10.5	13.5	18.0	27.0	33.0	37.5	45.0	42.0	36.0	31.5	28.5
100°	21.0	28.5	39.0	57.0	66.0	73.5	76.5	69.0	60.0	51.0	45.0
102.5°	37.5	57.0	81.0	109.5	118.5	121.5	120.0	105.0	90.0	75.0	66.0
105°	78.0	114.0	156.0	177.0	181.5	178.5	163.5	147.0	126.0	106.5	91.5
107.5°	168.0	219.0	246.0	249.0	244.5	235.5	213.0	190.5	165.0	142.5	121.5
110°	298.5	325.5	325.5	312.0	300.0	289.5	261.0	235.5	207.0	180.0	157.5



TEST NUMBER: P303137

CATALOG NUMBER: CTW-F-5050-30L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	411.0	406.5	387.0	363.0	349.5	336.0	306.0	279.0	247.5	220.5	193.5
115°	481.5	460.5	436.5	409.5	394.5	378.0	351.0	319.5	286.5	259.5	231.0
117.5°	528.0	504.0	477.0	451.5	436.5	424.5	393.0	357.0	327.0	298.5	270.0
120°	565.5	540.0	514.5	489.0	475.5	462.0	429.0	397.5	363.0	334.5	307.5
122.5°	597.0	573.0	547.5	523.5	510.0	495.0	465.0	433.5	405.0	370.5	345.0
125°	628.5	606.0	579.0	556.5	541.5	525.0	498.0	466.5	438.0	409.5	382.5
127.5°	655.5	633.0	610.5	585.0	570.0	555.0	528.0	498.0	471.0	444.0	418.5
130°	679.5	660.0	636.0	610.5	595.5	582.0	555.0	528.0	502.5	477.0	451.5
132.5°	705.0	682.5	660.0	634.5	621.0	607.5	583.5	558.0	532.5	508.5	484.5
135°	726.0	703.5	679.5	654.0	643.5	631.5	609.0	585.0	561.0	538.5	516.0
137.5°	745.5	720.0	697.5	673.5	664.5	654.0	631.5	609.0	588.0	567.0	544.5
140°	760.5	735.0	714.0	693.0	684.0	673.5	651.0	633.0	613.5	592.5	571.5
142.5°	772.5	748.5	727.5	709.5	700.5	693.0	672.0	654.0	636.0	616.5	597.0
145°	783.0	762.0	742.5	724.5	718.5	709.5	690.0	675.0	658.5	639.0	621.0
147.5°	792.0	774.0	756.0	739.5	732.0	724.5	706.5	693.0	676.5	661.5	643.5
150°	801.0	784.5	768.0	753.0	747.0	739.5	721.5	709.5	697.5	682.5	666.0
152.5°	807.0	792.0	777.0	765.0	759.0	753.0	736.5	727.5	714.0	700.5	685.5
155°	813.0	799.5	786.0	775.5	771.0	765.0	751.5	742.5	730.5	717.0	703.5
157.5°	817.5	805.5	793.5	784.5	780.0	775.5	762.0	756.0	745.5	733.5	720.0
160°	819.0	808.5	799.5	792.0	787.5	783.0	772.5	766.5	757.5	747.0	735.0
162.5°	819.0	811.5	802.5	798.0	793.5	789.0	780.0	775.5	768.0	759.0	748.5
165°	819.0	813.0	805.5	801.0	798.0	795.0	787.5	783.0	775.5	771.0	760.5
167.5°	819.0	813.0	807.0	804.0	801.0	798.0	793.5	790.5	784.5	780.0	771.0
170°	816.0	810.0	807.0	805.5	802.5	801.0	796.5	795.0	790.5	787.5	780.0
172.5°	811.5	807.0	805.5	804.0	802.5	801.0	798.0	796.5	793.5	792.0	787.5
175°	805.5	802.5	801.0	801.0	801.0	799.5	796.5	798.0	796.5	796.5	792.0
177.5°	796.5	795.0	795.0	795.0	796.5	795.0	795.0	796.5	796.5	798.0	795.0
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0



TEST NUMBER: P303137

CATALOG NUMBER: CTW-F-5050-30L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0
2.5°	873.0	870.0	868.5	868.5	867.0	864.0	864.0	865.5	868.5	874.5	870.0
5°	870.0	868.5	864.0	864.0	864.0	862.5	859.5	862.5	867.0	871.5	865.5
7.5°	864.0	862.5	859.5	859.5	859.5	856.5	855.0	858.0	861.0	864.0	859.5
10°	856.5	853.5	852.0	850.5	850.5	847.5	846.0	849.0	852.0	855.0	852.0
12.5°	846.0	843.0	840.0	840.0	838.5	837.0	835.5	838.5	841.5	844.5	841.5
15°	832.5	829.5	826.5	826.5	826.5	822.0	822.0	823.5	828.0	829.5	825.0
17.5°	817.5	813.0	810.0	811.5	810.0	805.5	807.0	807.0	813.0	813.0	810.0
20°	799.5	795.0	793.5	793.5	792.0	789.0	789.0	790.5	795.0	793.5	790.5
22.5°	780.0	775.5	775.5	774.0	774.0	769.5	769.5	771.0	775.5	772.5	769.5
25°	759.0	756.0	754.5	754.5	751.5	748.5	748.5	750.0	754.5	750.0	748.5
27.5°	735.0	733.5	732.0	732.0	729.0	726.0	727.5	727.5	730.5	727.5	724.5
30°	712.5	709.5	708.0	708.0	705.0	700.5	702.0	702.0	706.5	702.0	702.0
32.5°	688.5	684.0	684.0	682.5	679.5	676.5	678.0	679.5	681.0	675.0	676.5
35°	661.5	657.0	657.0	655.5	652.5	651.0	651.0	652.5	652.5	648.0	648.0
37.5°	634.5	631.5	630.0	628.5	625.5	624.0	625.5	627.0	625.5	621.0	621.0
40°	606.0	603.0	600.0	600.0	598.5	597.0	597.0	600.0	597.0	592.5	592.5
42.5°	577.5	574.5	571.5	571.5	570.0	570.0	570.0	571.5	567.0	565.5	562.5
45°	547.5	544.5	541.5	541.5	540.0	540.0	540.0	540.0	537.0	535.5	534.0
47.5°	517.5	514.5	511.5	511.5	510.0	511.5	511.5	510.0	505.5	505.5	504.0
50°	487.5	484.5	481.5	481.5	481.5	481.5	481.5	480.0	477.0	475.5	474.0
52.5°	456.0	453.0	450.0	451.5	450.0	451.5	450.0	448.5	445.5	444.0	442.5
55°	424.5	421.5	420.0	421.5	420.0	420.0	418.5	417.0	414.0	414.0	411.0
57.5°	391.5	387.0	387.0	388.5	387.0	387.0	384.0	382.5	379.5	379.5	376.5
60°	357.0	355.5	355.5	355.5	355.5	354.0	352.5	352.5	349.5	348.0	345.0
62.5°	325.5	325.5	324.0	325.5	322.5	322.5	321.0	319.5	318.0	316.5	315.0
65°	294.0	292.5	292.5	291.0	291.0	291.0	289.5	288.0	286.5	285.0	283.5
67.5°	261.0	261.0	261.0	261.0	259.5	259.5	258.0	256.5	253.5	255.0	252.0
70°	229.5	229.5	229.5	229.5	228.0	228.0	226.5	225.0	222.0	223.5	222.0
72.5°	198.0	198.0	198.0	198.0	196.5	196.5	193.5	193.5	193.5	192.0	190.5
75°	166.5	166.5	166.5	165.0	165.0	165.0	162.0	162.0	162.0	162.0	159.0
77.5°	135.0	136.5	135.0	135.0	133.5	133.5	133.5	132.0	132.0	130.5	129.0
80°	103.5	105.0	105.0	105.0	103.5	103.5	103.5	102.0	100.5	100.5	99.0
82.5°	76.5	75.0	75.0	75.0	73.5	73.5	73.5	72.0	72.0	70.5	69.0
85°	46.5	46.5	46.5	46.5	45.0	45.0	43.5	42.0	42.0	39.0	39.0
87.5°	21.0	19.5	19.5	19.5	19.5	18.0	16.5	15.0	15.0	13.5	13.5
90°	1.5	1.5	3.0	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
92.5°	10.5	13.5	15.0	16.5	15.0	16.5	16.5	16.5	15.0	15.0	15.0
95°	18.0	21.0	25.5	27.0	28.5	31.5	33.0	33.0	33.0	31.5	31.5
97.5°	28.5	31.5	33.0	34.5	34.5	39.0	42.0	45.0	48.0	48.0	49.5
100°	43.5	42.0	45.0	48.0	48.0	48.0	49.5	52.5	55.5	57.0	60.0
102.5°	61.5	57.0	57.0	58.5	60.0	64.5	63.0	64.5	66.0	67.5	69.0
105°	82.5	78.0	73.5	73.5	73.5	76.5	81.0	84.0	81.0	81.0	82.5
107.5°	109.5	100.5	93.0	91.5	91.5	90.0	93.0	97.5	100.5	102.0	100.5
110°	139.5	126.0	118.5	111.0	109.5	108.0	108.0	109.5	114.0	118.5	121.5



TEST NUMBER: P303137

CATALOG NUMBER: CTW-F-5050-30L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	174.0	157.5	144.0	138.0	132.0	126.0	124.5	124.5	126.0	130.5	133.5
115°	210.0	190.5	172.5	165.0	160.5	148.5	142.5	139.5	141.0	142.5	145.5
117.5°	247.5	226.5	205.5	196.5	190.5	177.0	165.0	160.5	157.5	156.0	159.0
120°	285.0	264.0	243.0	231.0	222.0	207.0	193.5	181.5	175.5	172.5	171.0
122.5°	321.0	300.0	279.0	267.0	258.0	238.5	225.0	210.0	199.5	192.0	187.5
125°	357.0	336.0	315.0	303.0	294.0	273.0	256.5	243.0	229.5	217.5	208.5
127.5°	393.0	370.5	349.5	339.0	330.0	307.5	289.5	276.0	262.5	249.0	237.0
130°	429.0	409.5	387.0	373.5	366.0	343.5	325.5	309.0	297.0	283.5	268.5
132.5°	460.5	442.5	421.5	411.0	400.5	378.0	363.0	345.0	331.5	318.0	304.5
135°	493.5	474.0	453.0	444.0	435.0	417.0	399.0	381.0	366.0	352.5	339.0
137.5°	522.0	505.5	484.5	475.5	466.5	450.0	433.5	420.0	405.0	390.0	373.5
140°	550.5	532.5	514.5	505.5	496.5	483.0	466.5	454.5	439.5	427.5	411.0
142.5°	576.0	558.0	543.0	534.0	525.0	511.5	496.5	486.0	474.0	460.5	450.0
145°	601.5	585.0	570.0	561.0	553.5	540.0	525.0	517.5	507.0	493.5	481.5
147.5°	624.0	609.0	594.0	586.5	580.5	567.0	555.0	546.0	537.0	525.0	514.5
150°	646.5	631.5	618.0	612.0	604.5	594.0	583.5	573.0	567.0	555.0	546.0
152.5°	667.5	654.0	640.5	636.0	630.0	618.0	607.5	598.5	594.0	583.5	576.0
155°	688.5	675.0	661.5	658.5	652.5	642.0	631.5	624.0	619.5	609.0	601.5
157.5°	706.5	693.0	682.5	678.0	672.0	663.0	654.0	648.0	645.0	636.0	628.5
160°	723.0	711.0	700.5	696.0	691.5	682.5	676.5	669.0	667.5	660.0	654.0
162.5°	736.5	726.0	717.0	714.0	709.5	702.0	696.0	688.5	687.0	682.5	676.5
165°	750.0	739.5	732.0	729.0	726.0	718.5	714.0	708.0	706.5	703.5	697.5
167.5°	762.0	753.0	745.5	744.0	741.0	735.0	732.0	726.0	724.5	723.0	717.0
170°	771.0	763.5	757.5	756.0	753.0	748.5	745.5	741.0	739.5	741.0	735.0
172.5°	778.5	772.5	768.0	766.5	765.0	762.0	759.0	756.0	754.5	757.5	751.5
175°	786.0	780.0	777.0	775.5	775.5	772.5	771.0	768.0	768.0	771.0	766.5
177.5°	790.5	786.0	783.0	783.0	781.5	780.0	780.0	777.0	780.0	783.0	778.5
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0



TEST NUMBER: P303137

CATALOG NUMBER: CTW-F-5050-30L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0
2.5°	873.0	870.0	870.0	868.5	867.0	865.5	865.5	865.5
5°	868.5	867.0	865.5	862.5	862.5	864.0	865.5	865.5
7.5°	861.0	861.0	859.5	858.0	856.5	859.5	859.5	861.0
10°	853.5	852.0	850.5	849.0	847.5	849.0	849.0	849.0
12.5°	841.5	840.0	838.5	835.5	835.5	837.0	837.0	840.0
15°	828.0	826.5	823.5	823.5	822.0	823.5	823.5	825.0
17.5°	811.5	808.5	807.0	805.5	805.5	807.0	807.0	805.5
20°	792.0	789.0	786.0	784.5	784.5	786.0	786.0	789.0
22.5°	769.5	766.5	765.0	763.5	763.5	765.0	765.0	766.5
25°	748.5	745.5	744.0	742.5	742.5	742.5	742.5	744.0
27.5°	726.0	721.5	718.5	718.5	717.0	717.0	717.0	718.5
30°	699.0	694.5	693.0	693.0	691.5	691.5	691.5	693.0
32.5°	672.0	669.0	667.5	666.0	664.5	666.0	664.5	666.0
35°	645.0	640.5	640.5	640.5	639.0	639.0	637.5	639.0
37.5°	618.0	613.5	612.0	612.0	610.5	610.5	610.5	612.0
40°	589.5	585.0	585.0	583.5	582.0	582.0	582.0	583.5
42.5°	559.5	556.5	555.0	555.0	553.5	553.5	553.5	553.5
45°	529.5	525.0	525.0	526.5	523.5	523.5	523.5	523.5
47.5°	499.5	496.5	496.5	496.5	493.5	493.5	493.5	493.5
50°	469.5	468.0	466.5	466.5	466.5	465.0	465.0	465.0
52.5°	439.5	438.0	436.5	438.0	435.0	435.0	435.0	435.0
55°	408.0	406.5	406.5	408.0	405.0	405.0	403.5	405.0
57.5°	373.5	372.0	372.0	372.0	372.0	370.5	370.5	370.5
60°	343.5	342.0	342.0	342.0	340.5	340.5	340.5	340.5
62.5°	312.0	312.0	312.0	310.5	310.5	309.0	309.0	310.5
65°	282.0	280.5	280.5	280.5	279.0	279.0	277.5	277.5
67.5°	250.5	250.5	250.5	249.0	249.0	247.5	247.5	249.0
70°	220.5	220.5	219.0	219.0	219.0	217.5	217.5	219.0
72.5°	190.5	189.0	189.0	187.5	189.0	186.0	186.0	187.5
75°	159.0	159.0	157.5	157.5	157.5	156.0	156.0	156.0
77.5°	129.0	129.0	127.5	127.5	127.5	126.0	126.0	126.0
80°	99.0	97.5	97.5	97.5	97.5	96.0	94.5	96.0
82.5°	67.5	67.5	67.5	67.5	66.0	64.5	63.0	64.5
85°	39.0	37.5	37.5	39.0	37.5	37.5	37.5	36.0
87.5°	13.5	12.0	12.0	12.0	12.0	13.5	12.0	12.0
90°	3.0	3.0	3.0	4.5	4.5	4.5	4.5	4.5
92.5°	15.0	15.0	13.5	13.5	13.5	13.5	12.0	12.0
95°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
97.5°	49.5	49.5	48.0	48.0	48.0	48.0	48.0	48.0
100°	61.5	63.0	63.0	63.0	64.5	64.5	64.5	64.5
102.5°	72.0	72.0	73.5	73.5	73.5	75.0	75.0	75.0
105°	82.5	84.0	84.0	84.0	85.5	85.5	87.0	87.0
107.5°	99.0	99.0	99.0	99.0	100.5	100.5	100.5	100.5
110°	121.5	121.5	120.0	118.5	118.5	118.5	117.0	117.0



TEST NUMBER: P303137

CATALOG NUMBER: CTW-F-5050-30L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	136.5	139.5	139.5	141.0	142.5	142.5	142.5	142.5
115°	148.5	151.5	153.0	154.5	156.0	156.0	157.5	157.5
117.5°	160.5	162.0	163.5	165.0	166.5	168.0	168.0	169.5
120°	172.5	174.0	175.5	175.5	177.0	178.5	178.5	178.5
122.5°	186.0	187.5	186.0	186.0	187.5	187.5	187.5	189.0
125°	204.0	202.5	201.0	201.0	199.5	199.5	199.5	199.5
127.5°	228.0	225.0	222.0	219.0	217.5	216.0	214.5	214.5
130°	258.0	252.0	247.5	244.5	241.5	238.5	235.5	235.5
132.5°	292.5	285.0	280.5	276.0	271.5	267.0	262.5	264.0
135°	328.5	322.5	316.5	312.0	306.0	300.0	297.0	297.0
137.5°	363.0	355.5	351.0	348.0	343.5	337.5	333.0	334.5
140°	402.0	388.5	385.5	382.5	378.0	372.0	369.0	369.0
142.5°	436.5	426.0	423.0	421.5	415.5	409.5	406.5	408.0
145°	471.0	460.5	459.0	456.0	451.5	445.5	442.5	442.5
147.5°	504.0	495.0	493.5	490.5	486.0	480.0	477.0	477.0
150°	537.0	528.0	525.0	523.5	519.0	513.0	510.0	511.5
152.5°	567.0	558.0	556.5	555.0	549.0	546.0	543.0	544.5
155°	595.5	586.5	585.0	583.5	580.5	576.0	574.5	576.0
157.5°	622.5	615.0	613.5	612.0	609.0	604.5	603.0	606.0
160°	648.0	642.0	640.5	639.0	637.5	634.5	631.5	633.0
162.5°	672.0	666.0	666.0	664.5	663.0	660.0	658.5	660.0
165°	694.5	690.0	688.5	687.0	685.5	684.0	682.5	681.0
167.5°	715.5	709.5	709.5	706.5	706.5	705.0	703.5	703.5
170°	733.5	729.0	729.0	726.0	726.0	724.5	723.0	723.0
172.5°	750.0	747.0	745.5	745.5	745.5	744.0	742.5	742.5
175°	766.5	763.5	762.0	760.5	760.5	759.0	757.5	759.0
177.5°	780.0	778.5	777.0	775.5	775.5	772.5	771.0	769.5
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0

(END OF REPORT)