

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: P303154

Luminaire Tested: **CTW-F-5050-40L835-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303154
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-5050-40L835-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 4000 LUMEN PACKAGE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

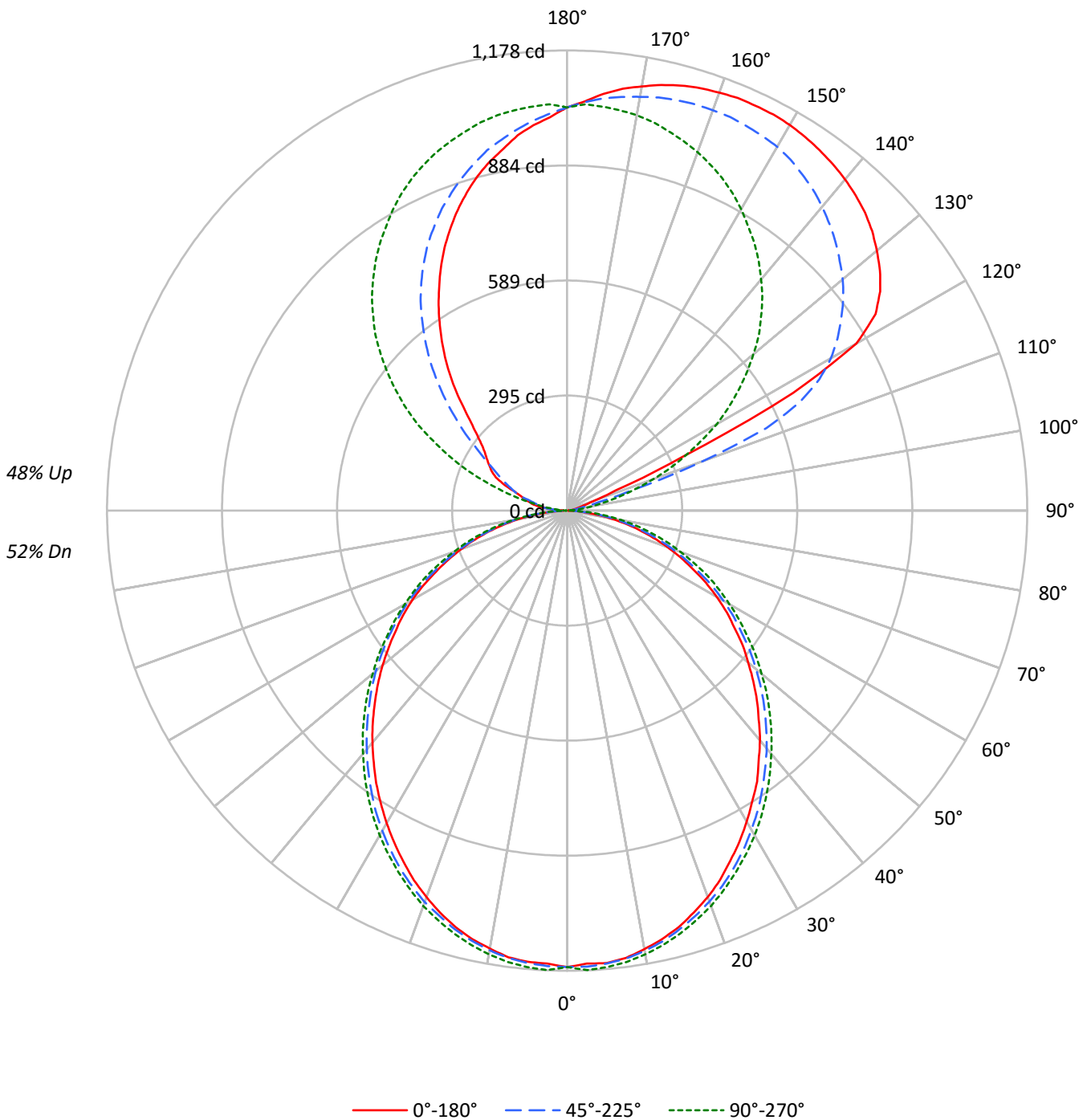
Lumens per Lamp: N/A
Luminaire Lumens: 6040.2 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: General Diffuse

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	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	52	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°	16770	16770	16770
5°	16748	16899	16705
10°	16614	16810	16592
15°	16403	16649	16403
20°	16082	16449	16082
25°	15653	16176	15701
30°	15238	15909	15313
35°	14849	15584	14927
40°	14389	15232	14529
45°	13944	14888	14126
50°	13497	14502	13765
55°	13061	14112	13399
60°	12701	13778	13132
65°	12073	13499	12582
70°	11456	12966	12148
75°	10563	12477	11478
80°	9050	11654	10414
85°	5681	10127	7904



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	1.8
10°-20°	312.2	5.2
20°-30°	462.2	7.7
30°-40°	542.6	9.0
40°-50°	550.1	9.1
50°-60°	490.6	8.1
60°-70°	374.3	6.2
70°-80°	221.2	3.7
80°-90°	59.6	1.0
90°-100°	30.1	0.5
100°-110°	125.1	2.1
110°-120°	352.9	5.8
120°-130°	514.4	8.5
130°-140°	554.0	9.2
140°-150°	527.1	8.7
150°-160°	432.6	7.2
160°-170°	282.8	4.7
170°-180°	98.0	1.6
0°-30°	884.7	14.6
0°-40°	1427.3	23.6
0°-60°	2468.0	40.9
0°-90°	3123.1	51.7
90°-120°	508.0	8.4
90°-150°	2103.5	34.8
90°-180°	2917.0	48.3
0°-180°	6040.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1168	1168	1168	1168	1168	
5°	1162	1164	1173	1162	1160	110
15°	1104	1110	1120	1110	1104	311
25°	988	1010	1022	1011	992	456
35°	848	872	890	874	852	529
45°	687	714	734	718	696	530
55°	522	546	564	555	536	469
65°	356	372	398	381	370	353
75°	190	202	225	213	207	201
85°	34	44	62	54	48	44
90°	2	2	2	6	9	2
95°	8	9	22	42	39	8
105°	33	84	138	99	112	39
115°	327	657	336	180	201	386
125°	978	856	534	290	256	866
135°	1078	972	702	471	376	832
145°	1126	1050	836	654	566	707
155°	1143	1086	939	804	742	529
165°	1126	1088	1005	920	886	319
175°	1071	1059	1038	1002	990	103
180°	1032	1032	1032	1032	1032	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5
2.5°	1161.0	1159.5	1162.5	1165.5	1165.5	1167.0	1168.5	1170.0	1170.0	1173.0	1168.5
5°	1162.5	1159.5	1161.0	1161.0	1159.5	1161.0	1162.5	1165.5	1165.5	1168.5	1164.0
7.5°	1155.0	1153.5	1155.0	1153.5	1152.0	1153.5	1155.0	1156.5	1156.5	1159.5	1156.5
10°	1140.0	1140.0	1140.0	1140.0	1140.0	1141.5	1143.0	1144.5	1144.5	1147.5	1144.5
12.5°	1123.5	1123.5	1123.5	1125.0	1122.0	1123.5	1126.5	1129.5	1129.5	1132.5	1129.5
15°	1104.0	1104.0	1105.5	1107.0	1105.5	1105.5	1107.0	1110.0	1110.0	1113.0	1110.0
17.5°	1078.5	1078.5	1080.0	1083.0	1081.5	1083.0	1084.5	1087.5	1089.0	1089.0	1089.0
20°	1053.0	1051.5	1053.0	1054.5	1054.5	1056.0	1056.0	1060.5	1063.5	1063.5	1065.0
22.5°	1023.0	1020.0	1023.0	1024.5	1024.5	1026.0	1026.0	1030.5	1033.5	1035.0	1039.5
25°	988.5	988.5	990.0	993.0	993.0	994.5	996.0	1000.5	1003.5	1003.5	1009.5
27.5°	955.5	954.0	955.5	958.5	961.5	963.0	963.0	967.5	972.0	975.0	978.0
30°	919.5	919.5	921.0	924.0	927.0	925.5	927.0	933.0	937.5	940.5	943.5
32.5°	882.0	882.0	883.5	886.5	891.0	891.0	892.5	897.0	900.0	903.0	909.0
35°	847.5	844.5	846.0	849.0	855.0	853.5	855.0	859.5	862.5	867.0	871.5
37.5°	805.5	805.5	807.0	810.0	816.0	814.5	817.5	820.5	825.0	829.5	832.5
40°	768.0	769.5	768.0	771.0	775.5	777.0	777.0	780.0	786.0	790.5	795.0
42.5°	726.0	727.5	729.0	732.0	736.5	736.5	738.0	741.0	745.5	750.0	754.5
45°	687.0	687.0	687.0	690.0	696.0	696.0	699.0	699.0	703.5	709.5	714.0
47.5°	646.5	646.5	646.5	651.0	655.5	655.5	658.5	658.5	664.5	669.0	673.5
50°	604.5	607.5	606.0	609.0	615.0	613.5	616.5	616.5	621.0	627.0	631.5
52.5°	567.0	567.0	564.0	568.5	573.0	573.0	574.5	574.5	580.5	585.0	589.5
55°	522.0	525.0	522.0	526.5	531.0	531.0	534.0	534.0	535.5	541.5	546.0
57.5°	484.5	484.5	481.5	484.5	489.0	489.0	492.0	492.0	495.0	498.0	505.5
60°	442.5	441.0	439.5	444.0	447.0	447.0	450.0	450.0	453.0	454.5	462.0
62.5°	400.5	399.0	399.0	402.0	405.0	403.5	408.0	408.0	411.0	414.0	418.5
65°	355.5	354.0	354.0	357.0	358.5	358.5	361.5	363.0	364.5	369.0	372.0
67.5°	315.0	313.5	312.0	315.0	316.5	316.5	319.5	321.0	324.0	325.5	328.5
70°	273.0	271.5	270.0	273.0	276.0	274.5	277.5	279.0	280.5	283.5	286.5
72.5°	231.0	231.0	231.0	232.5	234.0	234.0	235.5	237.0	240.0	243.0	244.5
75°	190.5	189.0	189.0	192.0	192.0	192.0	195.0	196.5	196.5	201.0	202.5
77.5°	150.0	151.5	150.0	150.0	150.0	151.5	153.0	154.5	157.5	160.5	162.0
80°	109.5	111.0	109.5	111.0	109.5	111.0	114.0	114.0	117.0	120.0	121.5
82.5°	70.5	72.0	70.5	72.0	72.0	72.0	73.5	75.0	78.0	79.5	82.5
85°	34.5	33.0	34.5	34.5	34.5	34.5	37.5	37.5	40.5	42.0	43.5
87.5°	4.5	4.5	4.5	4.5	6.0	4.5	6.0	7.5	7.5	9.0	9.0
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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
95°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.0	9.0
97.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	13.5	13.5	15.0	16.5
100°	16.5	16.5	18.0	18.0	18.0	18.0	18.0	19.5	21.0	24.0	27.0
102.5°	24.0	24.0	24.0	25.5	25.5	27.0	27.0	30.0	33.0	37.5	46.5
105°	33.0	34.5	34.5	34.5	37.5	37.5	39.0	43.5	51.0	63.0	84.0
107.5°	46.5	48.0	48.0	51.0	54.0	57.0	60.0	73.5	91.5	127.5	180.0
110°	72.0	73.5	75.0	82.5	93.0	102.0	114.0	148.5	202.5	282.0	369.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	135.0	142.5	151.5	172.5	208.5	231.0	256.5	346.5	433.5	510.0	552.0
115°	327.0	346.5	366.0	412.5	474.0	510.0	535.5	613.5	651.0	666.0	657.0
117.5°	652.5	669.0	682.5	708.0	738.0	748.5	753.0	769.5	762.0	750.0	727.5
120°	855.0	861.0	859.5	859.5	859.5	855.0	852.0	841.5	823.5	805.5	780.0
122.5°	936.0	937.5	931.5	924.0	915.0	910.5	904.5	888.0	868.5	847.5	820.5
125°	978.0	978.0	972.0	964.5	954.0	948.0	939.0	924.0	904.5	883.5	856.5
127.5°	1009.5	1008.0	1003.5	997.5	985.5	981.0	972.0	955.5	936.0	918.0	891.0
130°	1035.0	1033.5	1027.5	1024.5	1014.0	1006.5	999.0	982.5	963.0	945.0	921.0
132.5°	1059.0	1056.0	1050.0	1047.0	1036.5	1030.5	1023.0	1008.0	988.5	972.0	946.5
135°	1078.5	1074.0	1069.5	1066.5	1057.5	1050.0	1044.0	1029.0	1012.5	994.5	972.0
137.5°	1093.5	1090.5	1084.5	1081.5	1072.5	1066.5	1060.5	1048.5	1033.5	1015.5	994.5
140°	1107.0	1102.5	1099.5	1095.0	1087.5	1081.5	1075.5	1065.0	1050.0	1035.0	1015.5
142.5°	1117.5	1114.5	1111.5	1108.5	1099.5	1095.0	1089.0	1080.0	1068.0	1053.0	1035.0
145°	1126.5	1123.5	1120.5	1117.5	1110.0	1105.5	1101.0	1092.0	1081.5	1066.5	1050.0
147.5°	1134.0	1131.0	1128.0	1126.5	1119.0	1114.5	1110.0	1104.0	1092.0	1077.0	1065.0
150°	1140.0	1137.0	1134.0	1131.0	1125.0	1120.5	1119.0	1111.5	1099.5	1087.5	1075.5
152.5°	1143.0	1140.0	1138.5	1135.5	1129.5	1125.0	1123.5	1116.0	1105.5	1092.0	1081.5
155°	1143.0	1141.5	1138.5	1137.0	1129.5	1125.0	1123.5	1116.0	1107.0	1095.0	1086.0
157.5°	1143.0	1140.0	1138.5	1135.5	1128.0	1125.0	1123.5	1117.5	1110.0	1099.5	1090.5
160°	1138.5	1137.0	1135.5	1132.5	1126.5	1123.5	1123.5	1117.5	1110.0	1101.0	1090.5
162.5°	1134.0	1131.0	1129.5	1128.0	1123.5	1122.0	1120.5	1116.0	1108.5	1101.0	1090.5
165°	1126.5	1125.0	1122.0	1120.5	1116.0	1114.5	1113.0	1110.0	1102.5	1098.0	1087.5
167.5°	1116.0	1113.0	1111.5	1108.5	1104.0	1104.0	1104.0	1101.0	1096.5	1093.5	1083.0
170°	1102.5	1099.5	1098.0	1096.5	1093.5	1093.5	1093.5	1092.0	1087.5	1086.0	1075.5
172.5°	1089.0	1087.5	1086.0	1084.5	1080.0	1080.0	1080.0	1080.0	1077.0	1077.0	1068.0
175°	1071.0	1069.5	1068.0	1068.0	1065.0	1066.5	1066.5	1066.5	1065.0	1068.0	1059.0
177.5°	1048.5	1045.5	1048.5	1051.5	1050.0	1051.5	1053.0	1053.0	1051.5	1054.5	1047.0
180°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5
2.5°	1164.0	1165.5	1164.0	1165.5	1165.5	1165.5	1165.5	1170.0	1174.5	1177.5	1176.0
5°	1159.5	1161.0	1159.5	1161.0	1161.0	1161.0	1161.0	1165.5	1171.5	1173.0	1170.0
7.5°	1150.5	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1158.0	1162.5	1165.5	1162.5
10°	1138.5	1140.0	1140.0	1140.0	1141.5	1141.5	1141.5	1146.0	1152.0	1153.5	1150.5
12.5°	1123.5	1125.0	1125.0	1125.0	1126.5	1126.5	1126.5	1131.0	1137.0	1138.5	1137.0
15°	1105.5	1107.0	1107.0	1107.0	1108.5	1108.5	1108.5	1113.0	1119.0	1120.5	1119.0
17.5°	1084.5	1084.5	1084.5	1084.5	1087.5	1089.0	1087.5	1092.0	1098.0	1099.5	1098.0
20°	1059.0	1060.5	1060.5	1062.0	1063.5	1065.0	1065.0	1069.5	1075.5	1077.0	1074.0
22.5°	1033.5	1033.5	1035.0	1036.5	1036.5	1038.0	1038.0	1042.5	1048.5	1050.0	1048.5
25°	1005.0	1005.0	1006.5	1009.5	1009.5	1011.0	1011.0	1015.5	1020.0	1021.5	1020.0
27.5°	973.5	972.0	975.0	976.5	978.0	981.0	979.5	985.5	990.0	991.5	990.0
30°	942.0	940.5	943.5	945.0	946.5	948.0	948.0	954.0	958.5	960.0	958.5
32.5°	907.5	906.0	909.0	912.0	912.0	913.5	913.5	919.5	922.5	925.5	922.5
35°	871.5	868.5	873.0	876.0	874.5	877.5	877.5	883.5	886.5	889.5	886.5
37.5°	835.5	834.0	835.5	838.5	838.5	840.0	840.0	846.0	850.5	852.0	850.5
40°	798.0	796.5	798.0	802.5	801.0	802.5	804.0	808.5	811.5	813.0	811.5
42.5°	757.5	757.5	759.0	763.5	762.0	763.5	765.0	769.5	772.5	774.0	772.5
45°	717.0	718.5	717.0	724.5	721.5	723.0	726.0	727.5	732.0	733.5	730.5
47.5°	676.5	679.5	678.0	684.0	682.5	682.5	684.0	688.5	691.5	693.0	691.5
50°	634.5	637.5	636.0	643.5	640.5	642.0	643.5	646.5	648.0	649.5	649.5
52.5°	592.5	594.0	597.0	601.5	600.0	601.5	603.0	604.5	606.0	609.0	606.0
55°	550.5	552.0	555.0	558.0	559.5	559.5	561.0	564.0	562.5	564.0	565.5
57.5°	508.5	511.5	511.5	517.5	517.5	517.5	517.5	522.0	520.5	523.5	523.5
60°	465.0	465.0	468.0	472.5	474.0	474.0	475.5	478.5	477.0	480.0	481.5
62.5°	421.5	424.5	427.5	430.5	433.5	430.5	435.0	436.5	438.0	439.5	438.0
65°	375.0	378.0	381.0	384.0	384.0	384.0	385.5	391.5	391.5	397.5	396.0
67.5°	331.5	334.5	337.5	340.5	342.0	342.0	343.5	346.5	349.5	351.0	349.5
70°	288.0	291.0	297.0	298.5	301.5	298.5	303.0	304.5	307.5	309.0	307.5
72.5°	246.0	249.0	253.5	255.0	258.0	259.5	261.0	261.0	265.5	267.0	267.0
75°	204.0	207.0	211.5	213.0	216.0	217.5	219.0	219.0	223.5	225.0	223.5
77.5°	163.5	165.0	169.5	171.0	174.0	175.5	177.0	177.0	181.5	183.0	181.5
80°	123.0	124.5	129.0	130.5	133.5	133.5	135.0	136.5	139.5	141.0	139.5
82.5°	84.0	85.5	88.5	91.5	93.0	94.5	96.0	97.5	99.0	100.5	99.0
85°	45.0	46.5	51.0	52.5	55.5	57.0	57.0	58.5	61.5	61.5	61.5
87.5°	10.5	13.5	16.5	18.0	21.0	21.0	22.5	22.5	25.5	27.0	25.5
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°	4.5	4.5	6.0	6.0	7.5	7.5	10.5	12.0	10.5	9.0	9.0
95°	10.5	12.0	15.0	19.5	21.0	24.0	30.0	31.5	25.5	22.5	21.0
97.5°	19.5	24.0	31.5	43.5	48.0	54.0	61.5	58.5	48.0	40.5	37.5
100°	34.5	45.0	63.0	85.5	94.5	102.0	103.5	96.0	79.5	66.0	58.5
102.5°	61.5	87.0	124.5	156.0	162.0	166.5	159.0	142.5	118.5	97.5	85.5
105°	123.0	175.5	226.5	246.0	246.0	241.5	219.0	196.5	165.0	138.0	118.5
107.5°	253.5	313.5	343.5	337.5	327.0	312.0	282.0	253.5	216.0	183.0	159.0
110°	427.5	450.0	441.0	418.5	399.0	381.0	343.5	309.0	268.5	234.0	205.5



TEST NUMBER: P303154

CATALOG NUMBER: CTW-F-5050-40L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	558.0	541.5	517.5	480.0	462.0	444.0	405.0	366.0	321.0	286.5	253.5
115°	640.5	610.5	577.5	540.0	520.5	501.0	463.5	421.5	373.5	336.0	303.0
117.5°	700.5	664.5	630.0	594.0	573.0	553.5	517.5	472.5	427.5	387.0	354.0
120°	748.5	711.0	676.5	640.5	622.5	604.5	567.0	522.0	478.5	442.5	406.5
122.5°	790.5	753.0	720.0	685.5	669.0	649.5	610.5	567.0	523.5	489.0	456.0
125°	828.0	793.5	760.5	729.0	711.0	690.0	651.0	609.0	568.5	534.0	502.5
127.5°	862.5	831.0	799.5	768.0	751.5	727.5	691.5	651.0	613.5	579.0	549.0
130°	894.0	865.5	834.0	802.5	784.5	763.5	727.5	690.0	655.5	622.5	592.5
132.5°	924.0	895.5	865.5	832.5	816.0	796.5	763.5	727.5	694.5	666.0	636.0
135°	951.0	922.5	892.5	861.0	843.0	826.5	795.0	762.0	730.5	702.0	672.0
137.5°	975.0	945.0	916.5	886.5	870.0	855.0	825.0	793.5	766.5	739.5	709.5
140°	996.0	964.5	937.5	907.5	894.0	882.0	850.5	825.0	799.5	772.5	747.0
142.5°	1012.5	982.5	957.0	930.0	918.0	904.5	877.5	853.5	829.5	805.5	780.0
145°	1027.5	997.5	975.0	949.5	937.5	927.0	901.5	877.5	858.0	835.5	810.0
147.5°	1041.0	1014.0	991.5	969.0	958.5	948.0	924.0	903.0	885.0	862.5	840.0
150°	1050.0	1027.5	1008.0	985.5	978.0	967.5	945.0	927.0	909.0	891.0	868.5
152.5°	1057.5	1038.0	1020.0	1002.0	994.5	984.0	964.5	949.5	934.5	916.5	895.5
155°	1062.0	1047.0	1030.5	1014.0	1006.5	999.0	982.5	967.5	954.0	939.0	918.0
157.5°	1068.0	1054.5	1039.5	1024.5	1018.5	1011.0	996.0	984.0	972.0	958.5	940.5
160°	1071.0	1059.0	1045.5	1033.5	1027.5	1023.0	1006.5	999.0	988.5	976.5	960.0
162.5°	1072.5	1062.0	1051.5	1041.0	1036.5	1030.5	1018.5	1011.0	1002.0	991.5	978.0
165°	1072.5	1065.0	1054.5	1047.0	1042.5	1036.5	1027.5	1021.5	1014.0	1005.0	993.0
167.5°	1071.0	1065.0	1056.0	1050.0	1047.0	1042.5	1033.5	1029.0	1024.5	1018.5	1006.5
170°	1066.5	1062.0	1056.0	1051.5	1047.0	1044.0	1038.0	1035.0	1032.0	1027.5	1017.0
172.5°	1060.5	1057.5	1051.5	1050.0	1047.0	1044.0	1039.5	1039.5	1036.5	1033.5	1026.0
175°	1053.0	1051.5	1047.0	1045.5	1045.5	1042.5	1039.5	1039.5	1041.0	1038.0	1032.0
177.5°	1042.5	1042.5	1039.5	1039.5	1039.5	1038.0	1036.5	1039.5	1041.0	1041.0	1036.5
180°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0



TEST NUMBER: P303154

CATALOG NUMBER: CTW-F-5050-40L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5
2.5°	1173.0	1168.5	1165.5	1165.5	1165.5	1162.5	1161.0	1162.5	1167.0	1174.5	1167.0
5°	1167.0	1162.5	1161.0	1161.0	1161.0	1158.0	1156.5	1158.0	1162.5	1170.0	1162.5
7.5°	1159.5	1155.0	1153.5	1153.5	1152.0	1149.0	1149.0	1149.0	1155.0	1159.5	1153.5
10°	1147.5	1143.0	1141.5	1141.5	1140.0	1137.0	1137.0	1137.0	1143.0	1147.5	1141.5
12.5°	1132.5	1128.0	1126.5	1126.5	1125.0	1122.0	1122.0	1122.0	1128.0	1131.0	1126.5
15°	1114.5	1110.0	1108.5	1108.5	1107.0	1104.0	1104.0	1104.0	1110.0	1111.5	1107.0
17.5°	1093.5	1089.0	1087.5	1087.5	1084.5	1083.0	1081.5	1081.5	1087.5	1089.0	1084.5
20°	1071.0	1065.0	1065.0	1063.5	1060.5	1059.0	1059.0	1057.5	1066.5	1063.5	1060.5
22.5°	1044.0	1039.5	1039.5	1038.0	1035.0	1033.5	1032.0	1032.0	1039.5	1033.5	1030.5
25°	1017.0	1011.0	1012.5	1009.5	1008.0	1005.0	1003.5	1003.5	1011.0	1003.5	1002.0
27.5°	988.5	982.5	979.5	979.5	978.0	973.5	972.0	972.0	979.5	972.0	970.5
30°	954.0	951.0	948.0	948.0	943.5	942.0	940.5	940.5	946.5	939.0	937.5
32.5°	921.0	916.5	915.0	913.5	912.0	907.5	906.0	907.5	912.0	903.0	901.5
35°	885.0	882.0	880.5	877.5	876.0	873.0	871.5	873.0	874.5	867.0	864.0
37.5°	846.0	844.5	843.0	840.0	838.5	837.0	835.5	837.0	837.0	829.5	826.5
40°	808.5	805.5	804.0	802.5	802.5	799.5	798.0	801.0	798.0	795.0	789.0
42.5°	771.0	766.5	766.5	763.5	763.5	760.5	760.5	762.0	759.0	756.0	750.0
45°	730.5	729.0	727.5	724.5	724.5	721.5	721.5	723.0	718.5	715.5	711.0
47.5°	690.0	690.0	687.0	684.0	685.5	684.0	682.5	682.5	679.5	676.5	672.0
50°	649.5	648.0	643.5	645.0	646.5	642.0	643.5	639.0	639.0	636.0	630.0
52.5°	607.5	606.0	604.5	603.0	604.5	601.5	601.5	598.5	597.0	594.0	589.5
55°	567.0	565.5	562.5	562.5	564.0	559.5	559.5	556.5	555.0	552.0	547.5
57.5°	525.0	523.5	522.0	520.5	522.0	519.0	517.5	516.0	513.0	510.0	507.0
60°	483.0	481.5	478.5	477.0	478.5	475.5	474.0	472.5	471.0	466.5	463.5
62.5°	439.5	436.5	436.5	435.0	436.5	433.5	432.0	430.5	427.5	424.5	424.5
65°	396.0	394.5	394.5	390.0	393.0	390.0	384.0	384.0	381.0	378.0	378.0
67.5°	349.5	348.0	348.0	346.5	346.5	346.5	345.0	342.0	337.5	337.5	337.5
70°	307.5	306.0	306.0	303.0	304.5	303.0	301.5	298.5	295.5	295.5	295.5
72.5°	264.0	262.5	262.5	261.0	262.5	261.0	259.5	256.5	253.5	255.0	253.5
75°	222.0	220.5	222.0	219.0	220.5	219.0	217.5	214.5	213.0	214.5	213.0
77.5°	180.0	180.0	180.0	180.0	178.5	177.0	175.5	174.0	174.0	174.0	171.0
80°	139.5	138.0	138.0	138.0	138.0	136.5	135.0	133.5	133.5	133.5	130.5
82.5°	99.0	99.0	99.0	99.0	97.5	99.0	94.5	93.0	93.0	93.0	90.0
85°	60.0	60.0	61.5	60.0	60.0	58.5	55.5	54.0	54.0	52.5	51.0
87.5°	27.0	24.0	24.0	24.0	22.5	22.5	22.5	19.5	19.5	19.5	16.5
90°	3.0	4.5	4.5	4.5	4.5	6.0	6.0	6.0	6.0	6.0	7.5
92.5°	13.5	18.0	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
95°	24.0	27.0	33.0	36.0	39.0	42.0	42.0	43.5	42.0	40.5	40.5
97.5°	36.0	40.5	42.0	43.5	46.5	52.5	57.0	61.5	64.5	66.0	66.0
100°	55.5	54.0	57.0	61.5	61.5	60.0	64.5	69.0	73.5	78.0	79.5
102.5°	79.5	73.5	72.0	73.5	76.5	82.5	79.5	81.0	82.5	85.5	90.0
105°	108.0	99.0	93.0	91.5	93.0	96.0	102.0	103.5	99.0	100.5	102.0
107.5°	141.0	127.5	118.5	115.5	114.0	114.0	117.0	123.0	127.5	126.0	123.0
110°	181.5	160.5	148.5	142.5	139.5	136.5	136.5	139.5	144.0	150.0	154.5



TEST NUMBER: P303154

CATALOG NUMBER: CTW-F-5050-40L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	226.5	201.0	183.0	174.0	169.5	159.0	157.5	159.0	160.5	165.0	171.0
115°	274.5	243.0	220.5	210.0	204.0	187.5	180.0	178.5	180.0	181.5	184.5
117.5°	322.5	291.0	262.5	250.5	241.5	222.0	208.5	204.0	199.5	201.0	201.0
120°	375.0	337.5	310.5	294.0	285.0	261.0	243.0	232.5	223.5	220.5	219.0
122.5°	423.0	390.0	357.0	345.0	330.0	303.0	283.5	267.0	253.5	244.5	240.0
125°	468.0	436.5	406.5	393.0	378.0	348.0	327.0	307.5	289.5	277.5	265.5
127.5°	517.5	484.5	454.5	442.5	427.5	397.5	372.0	354.0	334.5	316.5	300.0
130°	558.0	529.5	501.0	489.0	475.5	447.0	421.5	400.5	376.5	360.0	342.0
132.5°	603.0	573.0	546.0	532.5	519.0	492.0	468.0	447.0	424.5	409.5	390.0
135°	643.5	615.0	586.5	576.0	561.0	537.0	514.5	492.0	471.0	453.0	436.5
137.5°	682.5	654.0	628.5	616.5	603.0	580.5	559.5	543.0	519.0	501.0	483.0
140°	718.5	691.5	667.5	655.5	645.0	621.0	603.0	586.5	564.0	547.5	528.0
142.5°	753.0	727.5	706.5	694.5	682.5	660.0	642.0	627.0	609.0	591.0	574.5
145°	786.0	760.5	741.0	730.5	718.5	697.5	681.0	666.0	654.0	634.5	618.0
147.5°	817.5	792.0	774.0	765.0	754.5	735.0	720.0	705.0	694.5	676.5	661.5
150°	846.0	823.5	807.0	798.0	787.5	769.5	756.0	742.5	733.5	715.5	705.0
152.5°	874.5	853.5	838.5	829.5	820.5	802.5	789.0	775.5	771.0	753.0	744.0
155°	900.0	879.0	865.5	858.0	850.5	832.5	820.5	807.0	804.0	789.0	778.5
157.5°	924.0	904.5	891.0	885.0	877.5	861.0	850.5	838.5	837.0	823.5	814.5
160°	945.0	927.0	915.0	907.5	901.5	888.0	877.5	868.5	865.5	856.5	847.5
162.5°	964.5	949.5	937.5	931.5	927.0	913.5	904.5	895.5	894.0	888.0	877.5
165°	981.0	966.0	957.0	952.5	948.0	936.0	928.5	921.0	919.5	916.5	906.0
167.5°	996.0	982.5	975.0	970.5	966.0	957.0	951.0	945.0	945.0	942.0	933.0
170°	1008.0	996.0	990.0	987.0	984.0	975.0	969.0	964.5	964.5	966.0	955.5
172.5°	1018.5	1009.5	1003.5	999.0	997.5	991.5	987.0	982.5	984.0	987.0	978.0
175°	1027.5	1018.5	1014.0	1012.5	1011.0	1005.0	1002.0	1000.5	1002.0	1006.5	999.0
177.5°	1033.5	1027.5	1024.5	1023.0	1023.0	1017.0	1015.5	1015.5	1017.0	1024.5	1015.5
180°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0



TEST NUMBER: P303154

CATALOG NUMBER: CTW-F-5050-40L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5
2.5°	1170.0	1168.5	1167.0	1165.5	1164.0	1162.5	1159.5	1161.0
5°	1164.0	1162.5	1161.0	1159.5	1159.5	1159.5	1158.0	1159.5
7.5°	1155.0	1153.5	1152.0	1150.5	1150.5	1152.0	1150.5	1153.5
10°	1143.0	1140.0	1140.0	1137.0	1137.0	1137.0	1137.0	1138.5
12.5°	1126.5	1123.5	1123.5	1120.5	1120.5	1120.5	1122.0	1123.5
15°	1107.0	1105.5	1104.0	1102.5	1102.5	1104.0	1102.5	1104.0
17.5°	1084.5	1081.5	1081.5	1080.0	1080.0	1078.5	1078.5	1080.0
20°	1057.5	1054.5	1054.5	1053.0	1051.5	1051.5	1051.5	1053.0
22.5°	1027.5	1026.0	1024.5	1021.5	1023.0	1023.0	1021.5	1024.5
25°	997.5	996.0	994.5	993.0	993.0	991.5	990.0	991.5
27.5°	967.5	964.5	963.0	961.5	960.0	958.5	957.0	958.5
30°	934.5	928.5	930.0	928.5	925.5	924.0	922.5	924.0
32.5°	898.5	895.5	892.5	892.5	889.5	888.0	886.5	888.0
35°	862.5	858.0	856.5	856.5	853.5	852.0	850.5	852.0
37.5°	825.0	820.5	819.0	819.0	816.0	813.0	813.0	813.0
40°	786.0	781.5	781.5	781.5	778.5	775.5	775.5	775.5
42.5°	747.0	744.0	742.5	742.5	739.5	735.0	735.0	736.5
45°	708.0	705.0	703.5	702.0	700.5	696.0	696.0	696.0
47.5°	666.0	666.0	663.0	663.0	660.0	658.5	657.0	657.0
50°	628.5	625.5	622.5	622.5	621.0	616.5	616.5	616.5
52.5°	586.5	585.0	582.0	582.0	579.0	576.0	576.0	576.0
55°	546.0	544.5	541.5	541.5	538.5	537.0	535.5	535.5
57.5°	504.0	504.0	501.0	501.0	496.5	496.5	495.0	498.0
60°	460.5	462.0	459.0	457.5	454.5	454.5	454.5	457.5
62.5°	421.5	420.0	417.0	417.0	415.5	414.0	415.5	415.5
65°	376.5	373.5	372.0	372.0	370.5	369.0	367.5	370.5
67.5°	334.5	333.0	330.0	330.0	330.0	328.5	328.5	330.0
70°	292.5	291.0	289.5	289.5	288.0	288.0	288.0	289.5
72.5°	250.5	250.5	250.5	249.0	247.5	246.0	249.0	247.5
75°	210.0	208.5	208.5	208.5	207.0	205.5	204.0	207.0
77.5°	169.5	168.0	168.0	168.0	166.5	165.0	165.0	166.5
80°	129.0	127.5	127.5	127.5	126.0	126.0	124.5	126.0
82.5°	87.0	87.0	87.0	87.0	84.0	85.5	85.5	84.0
85°	49.5	48.0	48.0	48.0	48.0	48.0	46.5	48.0
87.5°	15.0	15.0	15.0	16.5	15.0	16.5	16.5	16.5
90°	7.5	7.5	7.5	7.5	7.5	7.5	9.0	9.0
92.5°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
95°	39.0	40.5	39.0	39.0	39.0	39.0	39.0	39.0
97.5°	66.0	66.0	66.0	66.0	64.5	63.0	63.0	63.0
100°	82.5	84.0	85.5	85.5	87.0	87.0	87.0	87.0
102.5°	93.0	94.5	94.5	96.0	97.5	97.5	97.5	97.5
105°	103.5	103.5	105.0	106.5	109.5	111.0	112.5	112.5
107.5°	121.5	121.5	123.0	123.0	123.0	124.5	124.5	124.5
110°	153.0	147.0	147.0	145.5	144.0	144.0	144.0	144.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	175.5	177.0	178.5	180.0	178.5	175.5	175.5	175.5
115°	190.5	193.5	196.5	198.0	199.5	199.5	201.0	201.0
117.5°	205.5	208.5	210.0	211.5	214.5	214.5	217.5	217.5
120°	220.5	223.5	223.5	225.0	226.5	228.0	229.5	229.5
122.5°	238.5	240.0	240.0	240.0	241.5	241.5	243.0	243.0
125°	261.0	258.0	256.5	258.0	256.5	256.5	256.5	256.5
127.5°	289.5	283.5	282.0	280.5	277.5	274.5	274.5	274.5
130°	327.0	318.0	313.5	312.0	307.5	301.5	301.5	300.0
132.5°	370.5	360.0	354.0	352.5	345.0	337.5	334.5	333.0
135°	421.5	409.5	402.0	400.5	388.5	381.0	378.0	376.5
137.5°	466.5	454.5	450.0	447.0	439.5	432.0	427.5	426.0
140°	513.0	502.5	495.0	492.0	483.0	478.5	474.0	474.0
142.5°	559.5	549.0	541.5	538.5	531.0	525.0	520.5	520.5
145°	604.5	594.0	586.5	583.5	576.0	570.0	567.0	565.5
147.5°	649.5	639.0	633.0	630.0	622.5	616.5	612.0	612.0
150°	693.0	682.5	676.5	670.5	666.0	660.0	657.0	655.5
152.5°	733.5	724.5	718.5	712.5	708.0	705.0	700.5	700.5
155°	769.5	762.0	756.0	751.5	748.5	744.0	742.5	742.5
157.5°	807.0	798.0	793.5	789.0	786.0	784.5	781.5	781.5
160°	841.5	832.5	829.5	825.0	822.0	819.0	817.5	819.0
162.5°	874.5	868.5	864.0	859.5	858.0	855.0	853.5	853.5
165°	903.0	897.0	894.0	891.0	888.0	886.5	885.0	886.5
167.5°	930.0	924.0	921.0	918.0	916.5	916.5	915.0	915.0
170°	954.0	949.5	948.0	943.5	942.0	942.0	940.5	940.5
172.5°	976.5	973.5	972.0	969.0	969.0	969.0	967.5	969.0
175°	999.0	996.0	994.5	991.5	991.5	990.0	988.5	990.0
177.5°	1018.5	1017.0	1014.0	1012.5	1011.0	1009.5	1006.5	1008.0
180°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0

(END OF REPORT)