

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: P303171

Luminaire Tested: **CTW-F-5050-50L835-UNV-STD-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-5050-50L835-UNV-STD-6
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
50% UPLIGHT, 50% DOWNLIGHT, 5000 LUMEN PACKAGE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

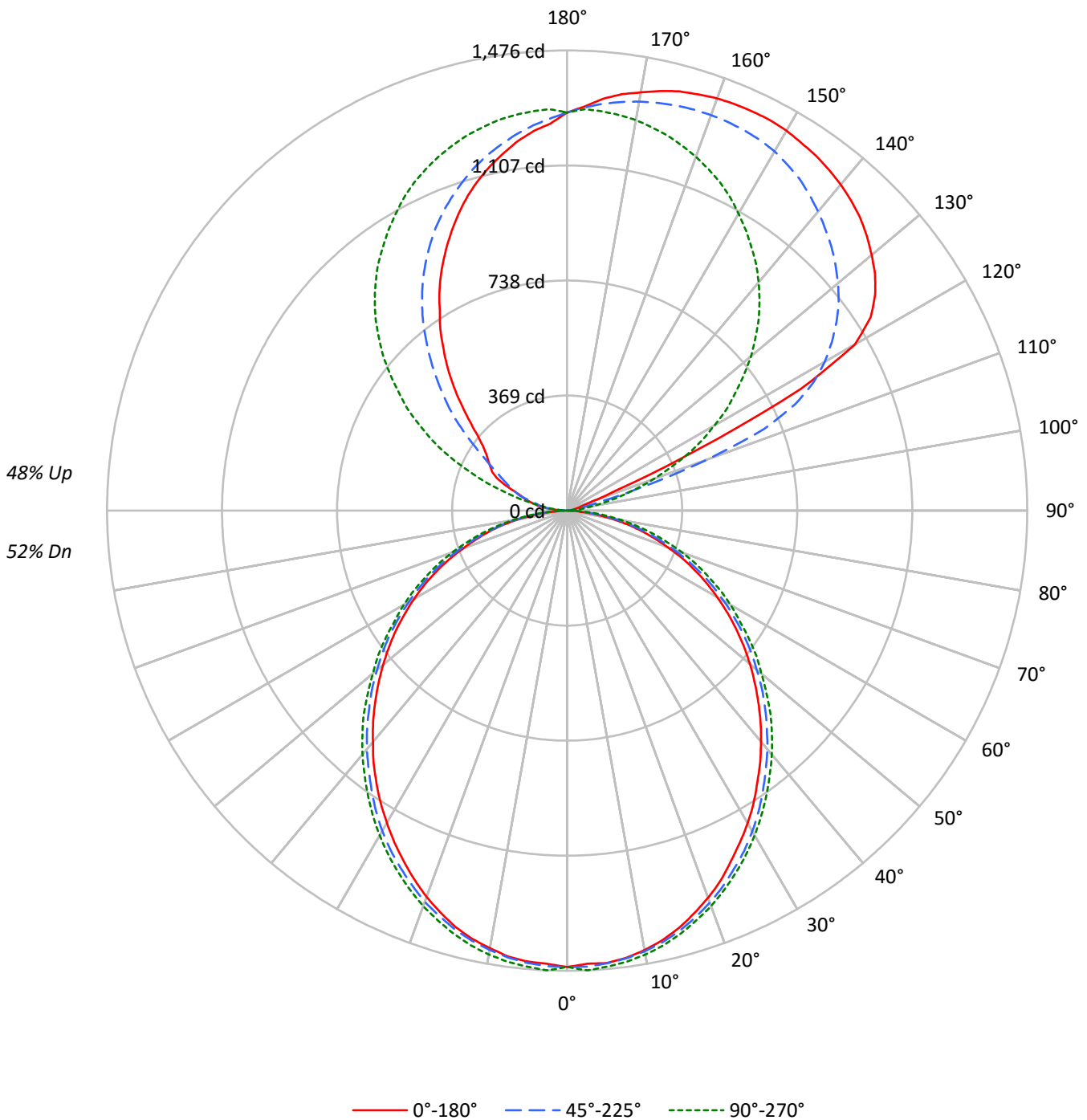
Lumens per Lamp: N/A
Luminaire Lumens: 7532.8 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49	44
2	89	82	75	70	82	76	70	66	65	61	57	54	51	49	45	43	41	36
3	81	72	64	58	75	67	60	55	57	52	48	48	44	41	40	37	35	31
4	74	63	55	49	68	59	52	46	50	45	41	43	39	35	35	32	30	26
5	68	56	48	42	63	53	45	40	45	39	35	38	34	30	32	29	26	23
6	63	51	42	37	58	47	40	35	41	35	31	35	30	27	29	25	23	20
7	58	46	38	32	54	43	35	30	37	31	27	31	27	24	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°	21011	21011	21011
5°	20983	21156	20919
10°	20854	21073	20767
15°	20593	20883	20549
20°	20183	20618	20137
25°	19668	20285	19644
30°	19191	19936	19166
35°	18633	19527	18686
40°	18126	19138	18154
45°	17597	18724	17689
50°	17081	18152	17215
55°	16552	17753	16777
60°	15974	17394	16275
65°	15333	16912	15740
70°	14414	16428	14918
75°	13308	15720	14306
80°	11406	14629	12893
85°	7163	12844	9386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	1.8
10°-20°	391.5	5.2
20°-30°	579.6	7.7
30°-40°	680.6	9.0
40°-50°	690.1	9.2
50°-60°	615.6	8.2
60°-70°	471.8	6.3
70°-80°	277.8	3.7
80°-90°	74.9	1.0
90°-100°	36.4	0.5
100°-110°	156.8	2.1
110°-120°	439.5	5.8
120°-130°	635.4	8.4
130°-140°	685.8	9.1
140°-150°	652.3	8.7
150°-160°	535.4	7.1
160°-170°	350.0	4.6
170°-180°	121.3	1.6
0°-30°	1109.3	14.7
0°-40°	1789.9	23.8
0°-60°	3095.6	41.1
0°-90°	3920.1	52.0
90°-120°	632.7	8.4
90°-150°	2606.1	34.6
90°-180°	3613.0	48.0
0°-180°	7532.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1464	1464	1464	1464	1464	
5°	1456	1458	1468	1456	1452	138
15°	1386	1395	1406	1390	1383	390
25°	1242	1268	1281	1264	1240	573
35°	1064	1095	1114	1094	1066	666
45°	867	898	922	898	872	669
55°	662	690	710	694	670	592
65°	452	472	498	480	464	446
75°	240	256	284	264	258	253
85°	44	57	78	64	57	56
90°	2	2	2	8	10	2
95°	9	10	27	50	45	10
105°	39	114	177	123	138	46
115°	454	807	424	220	250	502
125°	1206	1054	658	364	316	1070
135°	1329	1198	868	588	478	1025
145°	1390	1299	1030	812	710	872
155°	1412	1346	1161	999	921	653
165°	1392	1346	1245	1142	1098	394
175°	1326	1310	1286	1240	1222	128
180°	1276	1276	1276	1276	1276	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0
2.5°	1455.0	1453.5	1458.0	1461.0	1461.0	1462.5	1465.5	1467.0	1465.5	1471.5	1464.0
5°	1456.5	1453.5	1455.0	1455.0	1453.5	1455.0	1458.0	1459.5	1459.5	1465.5	1458.0
7.5°	1447.5	1446.0	1447.5	1446.0	1444.5	1446.0	1447.5	1450.5	1449.0	1455.0	1449.0
10°	1431.0	1429.5	1429.5	1429.5	1428.0	1429.5	1432.5	1435.5	1435.5	1440.0	1435.5
12.5°	1411.5	1408.5	1410.0	1411.5	1408.5	1410.0	1413.0	1416.0	1416.0	1422.0	1417.5
15°	1386.0	1384.5	1387.5	1390.5	1387.5	1387.5	1390.5	1392.0	1393.5	1398.0	1395.0
17.5°	1354.5	1354.5	1357.5	1362.0	1359.0	1359.0	1362.0	1365.0	1365.0	1368.0	1368.0
20°	1321.5	1320.0	1323.0	1326.0	1326.0	1324.5	1329.0	1332.0	1333.5	1336.5	1338.0
22.5°	1285.5	1282.5	1284.0	1288.5	1287.0	1287.0	1288.5	1294.5	1297.5	1300.5	1305.0
25°	1242.0	1242.0	1245.0	1248.0	1248.0	1248.0	1249.5	1254.0	1258.5	1263.0	1267.5
27.5°	1200.0	1200.0	1201.5	1207.5	1207.5	1206.0	1209.0	1216.5	1221.0	1224.0	1230.0
30°	1158.0	1153.5	1158.0	1162.5	1165.5	1162.5	1167.0	1173.0	1176.0	1180.5	1188.0
32.5°	1113.0	1111.5	1111.5	1117.5	1120.5	1119.0	1120.5	1128.0	1134.0	1135.5	1143.0
35°	1063.5	1065.0	1065.0	1069.5	1072.5	1071.0	1072.5	1080.0	1086.0	1087.5	1095.0
37.5°	1017.0	1017.0	1017.0	1021.5	1024.5	1024.5	1024.5	1032.0	1038.0	1042.5	1047.0
40°	967.5	969.0	967.5	972.0	976.5	975.0	976.5	982.5	990.0	994.5	999.0
42.5°	918.0	916.5	916.5	921.0	927.0	925.5	927.0	933.0	939.0	945.0	948.0
45°	867.0	864.0	867.0	871.5	876.0	877.5	876.0	882.0	888.0	892.5	898.5
47.5°	816.0	814.5	814.5	819.0	823.5	823.5	825.0	829.5	837.0	840.0	847.5
50°	765.0	765.0	763.5	768.0	772.5	774.0	774.0	777.0	784.5	790.5	793.5
52.5°	714.0	714.0	714.0	715.5	718.5	723.0	723.0	726.0	730.5	738.0	742.5
55°	661.5	663.0	661.5	663.0	667.5	670.5	670.5	673.5	678.0	685.5	690.0
57.5°	609.0	610.5	609.0	610.5	615.0	616.5	618.0	621.0	624.0	630.0	634.5
60°	556.5	558.0	556.5	558.0	562.5	565.5	564.0	568.5	571.5	574.5	580.5
62.5°	504.0	507.0	505.5	508.5	510.0	513.0	511.5	516.0	519.0	522.0	528.0
65°	451.5	454.5	453.0	456.0	456.0	459.0	457.5	462.0	465.0	468.0	472.5
67.5°	399.0	402.0	400.5	402.0	403.5	406.5	403.5	409.5	412.5	414.0	418.5
70°	343.5	346.5	345.0	346.5	348.0	349.5	348.0	352.5	357.0	358.5	361.5
72.5°	291.0	294.0	294.0	295.5	295.5	298.5	298.5	298.5	301.5	306.0	307.5
75°	240.0	243.0	243.0	243.0	243.0	246.0	246.0	249.0	250.5	253.5	256.5
77.5°	189.0	192.0	192.0	192.0	192.0	195.0	195.0	198.0	199.5	202.5	205.5
80°	138.0	141.0	142.5	142.5	142.5	144.0	144.0	147.0	148.5	151.5	154.5
82.5°	90.0	91.5	93.0	91.5	93.0	94.5	97.5	97.5	99.0	102.0	105.0
85°	43.5	45.0	46.5	46.5	46.5	48.0	48.0	51.0	52.5	54.0	57.0
87.5°	6.0	7.5	7.5	7.5	7.5	9.0	9.0	9.0	10.5	10.5	13.5
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	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
95°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.5
97.5°	13.5	13.5	15.0	13.5	15.0	15.0	15.0	15.0	16.5	16.5	19.5
100°	21.0	21.0	21.0	21.0	21.0	21.0	22.5	22.5	25.5	27.0	31.5
102.5°	28.5	28.5	28.5	30.0	30.0	31.5	31.5	33.0	37.5	43.5	57.0
105°	39.0	39.0	40.5	40.5	42.0	43.5	45.0	51.0	60.0	78.0	114.0
107.5°	54.0	55.5	57.0	58.5	63.0	67.5	72.0	88.5	115.5	171.0	255.0
110°	85.5	87.0	93.0	99.0	114.0	129.0	144.0	199.5	280.5	382.5	475.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	178.5	184.5	189.0	225.0	273.0	315.0	354.0	453.0	559.5	646.5	682.5
115°	454.5	465.0	472.5	543.0	618.0	666.0	696.0	763.5	807.0	820.5	807.0
117.5°	844.5	849.0	859.5	885.0	919.5	936.0	939.0	949.5	939.0	918.0	891.0
120°	1065.0	1065.0	1059.0	1060.5	1056.0	1056.0	1050.0	1033.5	1011.0	985.5	954.0
122.5°	1155.0	1150.5	1143.0	1137.0	1123.5	1120.5	1111.5	1090.5	1066.5	1041.0	1006.5
125°	1206.0	1201.5	1195.5	1188.0	1173.0	1167.0	1158.0	1137.0	1113.0	1086.0	1054.5
127.5°	1245.0	1240.5	1234.5	1227.0	1213.5	1207.5	1197.0	1176.0	1152.0	1126.5	1098.0
130°	1275.0	1273.5	1266.0	1261.5	1248.0	1242.0	1231.5	1210.5	1188.0	1162.5	1134.0
132.5°	1303.5	1300.5	1293.0	1290.0	1278.0	1270.5	1261.5	1242.0	1219.5	1194.0	1167.0
135°	1329.0	1326.0	1317.0	1314.0	1303.5	1294.5	1287.0	1269.0	1249.5	1224.0	1198.5
137.5°	1348.5	1344.0	1338.0	1335.0	1324.5	1315.5	1309.5	1293.0	1273.5	1249.5	1225.5
140°	1365.0	1360.5	1356.0	1353.0	1344.0	1336.5	1329.0	1312.5	1296.0	1276.5	1252.5
142.5°	1378.5	1375.5	1371.0	1366.5	1357.5	1351.5	1345.5	1332.0	1317.0	1297.5	1276.5
145°	1390.5	1387.5	1383.0	1380.0	1369.5	1365.0	1359.0	1347.0	1333.5	1314.0	1299.0
147.5°	1398.0	1396.5	1393.5	1390.5	1380.0	1375.5	1369.5	1360.5	1347.0	1329.0	1315.5
150°	1407.0	1404.0	1401.0	1399.5	1389.0	1384.5	1381.5	1371.0	1359.0	1342.5	1330.5
152.5°	1411.5	1408.5	1405.5	1404.0	1393.5	1390.5	1387.5	1378.5	1365.0	1350.0	1339.5
155°	1411.5	1410.0	1407.0	1405.5	1395.0	1390.5	1389.0	1380.0	1368.0	1356.0	1345.5
157.5°	1410.0	1407.0	1405.5	1402.5	1393.5	1390.5	1387.5	1380.0	1369.5	1359.0	1348.5
160°	1407.0	1404.0	1402.5	1399.5	1392.0	1389.0	1387.5	1380.0	1372.5	1362.0	1350.0
162.5°	1399.5	1398.0	1396.5	1395.0	1389.0	1386.0	1384.5	1378.5	1369.5	1360.5	1348.5
165°	1392.0	1389.0	1387.5	1384.5	1378.5	1378.5	1377.0	1372.5	1363.5	1359.0	1345.5
167.5°	1378.5	1374.0	1374.0	1369.5	1365.0	1365.0	1363.5	1362.0	1354.5	1351.5	1339.5
170°	1362.0	1360.5	1357.5	1356.0	1353.0	1353.0	1351.5	1350.0	1344.0	1344.0	1332.0
172.5°	1347.0	1345.5	1344.0	1341.0	1336.5	1336.5	1336.5	1336.5	1332.0	1332.0	1321.5
175°	1326.0	1323.0	1323.0	1321.5	1318.5	1320.0	1320.0	1320.0	1317.0	1320.0	1309.5
177.5°	1297.5	1294.5	1297.5	1300.5	1299.0	1300.5	1302.0	1302.0	1299.0	1303.5	1294.5
180°	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0
2.5°	1458.0	1459.5	1458.0	1459.5	1461.0	1459.5	1461.0	1467.0	1473.0	1476.0	1473.0
5°	1452.0	1453.5	1452.0	1453.5	1455.0	1453.5	1455.0	1459.5	1467.0	1468.5	1467.0
7.5°	1443.0	1444.5	1443.0	1444.5	1444.5	1444.5	1444.5	1450.5	1456.5	1459.5	1456.5
10°	1428.0	1429.5	1428.0	1431.0	1431.0	1431.0	1431.0	1437.0	1443.0	1446.0	1441.5
12.5°	1410.0	1411.5	1410.0	1413.0	1411.5	1413.0	1414.5	1419.0	1425.0	1428.0	1425.0
15°	1386.0	1389.0	1387.5	1390.5	1390.5	1390.5	1390.5	1396.5	1402.5	1405.5	1402.5
17.5°	1359.0	1360.5	1360.5	1363.5	1363.5	1363.5	1365.0	1371.0	1375.5	1378.5	1375.5
20°	1329.0	1332.0	1332.0	1333.5	1333.5	1335.0	1336.5	1341.0	1347.0	1350.0	1347.0
22.5°	1296.0	1299.0	1300.5	1300.5	1300.5	1302.0	1303.5	1308.0	1315.5	1317.0	1314.0
25°	1261.5	1261.5	1264.5	1264.5	1266.0	1267.5	1269.0	1272.0	1279.5	1281.0	1279.5
27.5°	1224.0	1222.5	1224.0	1227.0	1227.0	1230.0	1231.5	1234.5	1240.5	1243.5	1240.5
30°	1182.0	1182.0	1185.0	1186.5	1186.5	1188.0	1191.0	1194.0	1200.0	1203.0	1200.0
32.5°	1140.0	1138.5	1143.0	1143.0	1144.5	1146.0	1147.5	1152.0	1156.5	1159.5	1158.0
35°	1096.5	1092.0	1098.0	1098.0	1099.5	1102.5	1102.5	1105.5	1111.5	1114.5	1111.5
37.5°	1051.5	1047.0	1051.5	1054.5	1053.0	1056.0	1057.5	1060.5	1066.5	1068.0	1068.0
40°	1005.0	1000.5	1005.0	1006.5	1006.5	1008.0	1011.0	1012.5	1017.0	1021.5	1018.5
42.5°	954.0	952.5	955.5	958.5	958.5	960.0	961.5	963.0	967.5	972.0	969.0
45°	903.0	903.0	906.0	909.0	910.5	910.5	912.0	913.5	916.5	922.5	918.0
47.5°	852.0	852.0	855.0	856.5	856.5	858.0	861.0	861.0	867.0	867.0	868.5
50°	798.0	801.0	804.0	808.5	805.5	807.0	810.0	810.0	813.0	813.0	817.5
52.5°	745.5	747.0	751.5	756.0	757.5	756.0	757.5	757.5	760.5	765.0	762.0
55°	693.0	693.0	699.0	703.5	703.5	703.5	703.5	705.0	709.5	709.5	709.5
57.5°	639.0	640.5	645.0	651.0	651.0	651.0	651.0	652.5	655.5	654.0	658.5
60°	586.5	586.5	592.5	595.5	595.5	598.5	598.5	600.0	601.5	606.0	606.0
62.5°	534.0	534.0	538.5	541.5	544.5	543.0	544.5	546.0	549.0	553.5	550.5
65°	480.0	480.0	484.5	486.0	490.5	489.0	490.5	495.0	496.5	498.0	496.5
67.5°	424.5	426.0	430.5	432.0	436.5	438.0	436.5	442.5	444.0	447.0	445.5
70°	366.0	367.5	373.5	375.0	378.0	376.5	379.5	387.0	390.0	391.5	388.5
72.5°	313.5	315.0	321.0	322.5	325.5	324.0	327.0	331.5	334.5	336.0	336.0
75°	259.5	262.5	265.5	268.5	273.0	271.5	274.5	279.0	282.0	283.5	283.5
77.5°	208.5	210.0	214.5	216.0	220.5	219.0	220.5	223.5	228.0	229.5	229.5
80°	157.5	160.5	162.0	165.0	168.0	166.5	169.5	174.0	175.5	177.0	177.0
82.5°	108.0	109.5	112.5	115.5	118.5	120.0	121.5	124.5	126.0	126.0	126.0
85°	60.0	63.0	66.0	67.5	70.5	69.0	73.5	76.5	78.0	78.0	79.5
87.5°	16.5	19.5	21.0	24.0	27.0	27.0	27.0	33.0	33.0	34.5	34.5
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	6.0	6.0	7.5	9.0	10.5	15.0	15.0	12.0	10.5	12.0
95°	12.0	13.5	16.5	25.5	31.5	36.0	42.0	40.5	34.5	27.0	25.5
97.5°	22.5	28.5	40.5	61.5	73.5	79.5	85.5	76.5	64.5	52.5	48.0
100°	42.0	57.0	87.0	123.0	136.5	142.5	141.0	121.5	105.0	85.5	75.0
102.5°	79.5	121.5	172.5	213.0	222.0	214.5	202.5	178.5	154.5	127.5	111.0
105°	172.5	244.5	297.0	312.0	316.5	301.5	273.0	243.0	208.5	177.0	153.0
107.5°	343.5	409.5	429.0	418.5	412.5	387.0	351.0	312.0	271.5	232.5	202.5
110°	544.5	556.5	543.0	510.0	492.0	469.5	429.0	384.0	333.0	294.0	258.0



TEST NUMBER: P303171

CATALOG NUMBER: CTW-F-5050-50L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	691.5	666.0	631.5	588.0	567.0	543.0	499.5	456.0	400.5	357.0	318.0
115°	786.0	748.5	706.5	660.0	637.5	612.0	568.5	520.5	465.0	424.5	379.5
117.5°	859.5	813.0	771.0	726.0	705.0	679.5	636.0	583.5	528.0	487.5	442.5
120°	916.5	873.0	829.5	787.5	763.5	742.5	697.5	645.0	589.5	544.5	502.5
122.5°	967.5	927.0	885.0	844.5	822.0	798.0	751.5	700.5	649.5	607.5	565.5
125°	1015.5	978.0	936.0	895.5	873.0	849.0	804.0	754.5	703.5	658.5	622.5
127.5°	1060.5	1024.5	982.5	943.5	921.0	895.5	852.0	804.0	760.5	714.0	678.0
130°	1101.0	1068.0	1027.5	988.5	966.0	942.0	898.5	852.0	810.0	769.5	730.5
132.5°	1137.0	1104.0	1065.0	1029.0	1005.0	984.0	942.0	898.5	856.5	819.0	783.0
135°	1171.5	1137.0	1101.0	1063.5	1042.5	1023.0	982.5	942.0	903.0	868.5	835.5
137.5°	1203.0	1165.5	1129.5	1093.5	1074.0	1057.5	1018.5	981.0	948.0	913.5	880.5
140°	1230.0	1191.0	1158.0	1123.5	1105.5	1089.0	1053.0	1017.0	988.5	955.5	924.0
142.5°	1251.0	1212.0	1182.0	1149.0	1132.5	1119.0	1084.5	1053.0	1024.5	996.0	964.5
145°	1267.5	1233.0	1204.5	1173.0	1159.5	1144.5	1113.0	1084.5	1059.0	1030.5	1002.0
147.5°	1284.0	1254.0	1225.5	1197.0	1183.5	1170.0	1141.5	1116.0	1092.0	1066.5	1038.0
150°	1297.5	1270.5	1245.0	1219.5	1207.5	1194.0	1168.5	1144.5	1123.5	1099.5	1072.5
152.5°	1306.5	1284.0	1261.5	1239.0	1227.0	1216.5	1192.5	1173.0	1153.5	1132.5	1105.5
155°	1314.0	1296.0	1275.0	1255.5	1245.0	1236.0	1213.5	1195.5	1179.0	1161.0	1137.0
157.5°	1321.5	1303.5	1285.5	1267.5	1258.5	1249.5	1230.0	1216.5	1201.5	1185.0	1162.5
160°	1324.5	1311.0	1293.0	1278.0	1270.5	1263.0	1246.5	1234.5	1222.5	1207.5	1186.5
162.5°	1326.0	1314.0	1299.0	1287.0	1281.0	1275.0	1258.5	1249.5	1239.0	1227.0	1209.0
165°	1326.0	1317.0	1305.0	1294.5	1288.5	1284.0	1270.5	1263.0	1255.5	1245.0	1228.5
167.5°	1324.5	1315.5	1306.5	1297.5	1293.0	1288.5	1278.0	1273.5	1267.5	1258.5	1245.0
170°	1320.0	1314.0	1305.0	1299.0	1296.0	1291.5	1284.0	1281.0	1278.0	1272.0	1258.5
172.5°	1312.5	1308.0	1302.0	1297.5	1296.0	1291.5	1285.5	1284.0	1284.0	1279.5	1269.0
175°	1302.0	1300.5	1296.0	1293.0	1290.0	1288.5	1284.0	1285.5	1287.0	1285.5	1276.5
177.5°	1288.5	1288.5	1285.5	1285.5	1284.0	1282.5	1281.0	1284.0	1288.5	1288.5	1282.5
180°	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5



TEST NUMBER: P303171

CATALOG NUMBER: CTW-F-5050-50L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0
2.5°	1468.5	1462.5	1461.0	1461.0	1459.5	1456.5	1455.0	1456.5	1462.5	1471.5	1462.5
5°	1462.5	1456.5	1453.5	1453.5	1453.5	1449.0	1449.0	1449.0	1456.5	1464.0	1455.0
7.5°	1452.0	1446.0	1444.5	1444.5	1443.0	1440.0	1438.5	1440.0	1446.0	1453.5	1444.5
10°	1438.5	1432.5	1431.0	1429.5	1428.0	1425.0	1423.5	1425.0	1431.0	1437.0	1429.5
12.5°	1420.5	1414.5	1411.5	1413.0	1410.0	1405.5	1405.5	1405.5	1413.0	1417.5	1410.0
15°	1398.0	1390.5	1389.0	1389.0	1387.5	1383.0	1383.0	1383.0	1390.5	1393.5	1384.5
17.5°	1371.0	1365.0	1363.5	1363.5	1360.5	1356.0	1356.0	1354.5	1363.5	1365.0	1359.0
20°	1342.5	1336.5	1333.5	1333.5	1330.5	1326.0	1326.0	1324.5	1335.0	1332.0	1327.5
22.5°	1311.0	1303.5	1300.5	1302.0	1299.0	1293.0	1293.0	1291.5	1300.5	1296.0	1290.0
25°	1276.5	1267.5	1266.0	1264.5	1263.0	1255.5	1255.5	1255.5	1264.5	1257.0	1252.5
27.5°	1236.0	1230.0	1228.5	1224.0	1224.0	1218.0	1218.0	1218.0	1227.0	1216.5	1215.0
30°	1195.5	1189.5	1189.5	1185.0	1183.5	1177.5	1177.5	1177.5	1186.5	1176.0	1173.0
32.5°	1155.0	1147.5	1144.5	1141.5	1141.5	1135.5	1135.5	1135.5	1141.5	1131.0	1128.0
35°	1110.0	1102.5	1102.5	1096.5	1096.5	1090.5	1089.0	1092.0	1093.5	1084.5	1081.5
37.5°	1063.5	1056.0	1056.0	1051.5	1051.5	1045.5	1045.5	1050.0	1045.5	1041.0	1035.0
40°	1017.0	1011.0	1008.0	1003.5	1005.0	1000.5	999.0	1002.0	999.0	994.5	987.0
42.5°	967.5	961.5	960.0	957.0	957.0	952.5	951.0	954.0	949.5	943.5	939.0
45°	918.0	913.5	912.0	909.0	909.0	903.0	903.0	904.5	898.5	895.5	889.5
47.5°	865.5	862.5	859.5	859.5	858.0	853.5	853.5	853.5	849.0	846.0	838.5
50°	814.5	810.0	808.5	808.5	808.5	804.0	802.5	799.5	796.5	795.0	787.5
52.5°	762.0	759.0	757.5	757.5	759.0	751.5	750.0	747.0	745.5	744.0	735.0
55°	709.5	706.5	703.5	706.5	705.0	699.0	697.5	699.0	694.5	690.0	682.5
57.5°	657.0	652.5	652.5	654.0	652.5	646.5	645.0	646.5	640.5	636.0	630.0
60°	604.5	600.0	598.5	600.0	598.5	592.5	591.0	591.0	586.5	583.5	577.5
62.5°	552.0	547.5	547.5	547.5	546.0	543.0	538.5	538.5	534.0	529.5	525.0
65°	496.5	492.0	493.5	493.5	493.5	490.5	486.0	487.5	480.0	477.0	472.5
67.5°	444.0	439.5	439.5	439.5	439.5	439.5	432.0	430.5	426.0	424.5	420.0
70°	388.5	382.5	384.0	382.5	381.0	379.5	375.0	373.5	369.0	369.0	364.5
72.5°	333.0	330.0	330.0	330.0	328.5	327.0	324.0	322.5	316.5	316.5	313.5
75°	277.5	277.5	276.0	276.0	276.0	274.5	271.5	270.0	264.0	265.5	262.5
77.5°	226.5	226.5	223.5	223.5	223.5	222.0	220.5	216.0	216.0	213.0	211.5
80°	174.0	174.0	172.5	172.5	172.5	171.0	169.5	168.0	165.0	163.5	160.5
82.5°	126.0	124.5	123.0	123.0	121.5	121.5	120.0	118.5	115.5	111.0	109.5
85°	76.5	76.5	75.0	75.0	73.5	73.5	70.5	67.5	64.5	61.5	60.0
87.5°	33.0	33.0	28.5	28.5	27.0	27.0	25.5	24.0	21.0	19.5	18.0
90°	3.0	4.5	4.5	4.5	6.0	6.0	6.0	7.5	7.5	7.5	7.5
92.5°	18.0	22.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5	22.5
95°	30.0	33.0	40.5	43.5	46.5	49.5	49.5	49.5	49.5	48.0	45.0
97.5°	45.0	48.0	52.5	52.5	54.0	61.5	67.5	70.5	73.5	75.0	75.0
100°	70.5	64.5	70.5	75.0	73.5	73.5	76.5	82.5	88.5	91.5	93.0
102.5°	100.5	90.0	87.0	90.0	93.0	99.0	96.0	97.5	100.5	105.0	109.5
105°	138.0	124.5	114.0	112.5	112.5	118.5	126.0	124.5	123.0	123.0	123.0
107.5°	181.5	162.0	145.5	142.5	139.5	139.5	144.0	153.0	159.0	153.0	150.0
110°	231.0	204.0	187.5	178.5	172.5	166.5	166.5	171.0	178.5	186.0	189.0



TEST NUMBER: P303171

CATALOG NUMBER: CTW-F-5050-50L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	286.5	253.5	231.0	223.5	211.5	198.0	193.5	193.5	198.0	205.5	211.5
115°	343.5	309.0	277.5	268.5	256.5	235.5	223.5	220.5	220.5	223.5	229.5
117.5°	406.5	364.5	330.0	318.0	304.5	280.5	261.0	250.5	246.0	246.0	249.0
120°	462.0	426.0	390.0	373.5	357.0	330.0	304.5	288.0	277.5	271.5	270.0
122.5°	525.0	487.5	448.5	435.0	417.0	385.5	358.5	333.0	316.5	304.5	295.5
125°	582.0	547.5	507.0	490.5	474.0	442.5	415.5	387.0	364.5	345.0	330.0
127.5°	637.5	603.0	564.0	549.0	532.5	499.5	471.0	444.0	420.0	396.0	375.0
130°	693.0	660.0	621.0	604.5	589.5	558.0	526.5	499.5	478.5	454.5	430.5
132.5°	747.0	712.5	676.5	658.5	645.0	613.5	585.0	556.5	532.5	511.5	489.0
135°	798.0	765.0	729.0	711.0	697.5	669.0	640.5	615.0	588.0	567.0	546.0
137.5°	846.0	813.0	781.5	762.0	748.5	723.0	696.0	672.0	645.0	622.5	601.5
140°	891.0	859.5	829.5	813.0	798.0	772.5	748.5	729.0	700.5	679.5	658.5
142.5°	933.0	901.5	873.0	859.5	844.5	820.5	798.0	780.0	759.0	736.5	715.5
145°	970.5	943.5	916.5	903.0	889.5	867.0	846.0	829.5	811.5	789.0	769.5
147.5°	1009.5	982.5	957.0	945.0	934.5	912.0	892.5	876.0	862.5	841.5	822.0
150°	1045.5	1020.0	997.5	985.5	976.5	952.5	937.5	921.0	910.5	891.0	874.5
152.5°	1080.0	1057.5	1035.0	1026.0	1015.5	993.0	978.0	961.5	955.5	936.0	922.5
155°	1113.0	1089.0	1071.0	1062.0	1051.5	1030.5	1018.5	1003.5	999.0	981.0	967.5
157.5°	1143.0	1119.0	1102.5	1093.5	1084.5	1066.5	1054.5	1041.0	1038.0	1024.5	1009.5
160°	1168.5	1146.0	1131.0	1125.0	1116.0	1099.5	1087.5	1077.0	1074.0	1065.0	1050.0
162.5°	1191.0	1171.5	1159.5	1152.0	1144.5	1129.5	1120.5	1108.5	1108.5	1101.0	1089.0
165°	1213.5	1195.5	1183.5	1177.5	1171.5	1159.5	1149.0	1141.5	1141.5	1135.5	1123.5
167.5°	1231.5	1215.0	1206.0	1200.0	1195.5	1183.5	1176.0	1168.5	1170.0	1167.0	1155.0
170°	1248.0	1233.0	1225.5	1221.0	1216.5	1206.0	1201.5	1194.0	1195.5	1195.5	1185.0
172.5°	1261.5	1248.0	1242.0	1237.5	1236.0	1225.5	1222.5	1218.0	1219.5	1222.5	1209.0
175°	1270.5	1260.0	1254.0	1252.5	1249.5	1243.5	1239.0	1237.5	1240.5	1245.0	1233.0
177.5°	1278.0	1269.0	1266.0	1266.0	1263.0	1257.0	1254.0	1254.0	1258.5	1264.5	1255.5
180°	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5



TEST NUMBER: P303171

CATALOG NUMBER: CTW-F-5050-50L835-UNV-STD-6

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0	1464.0
2.5°	1465.5	1464.0	1462.5	1459.5	1458.0	1455.0	1453.5	1455.0
5°	1456.5	1455.0	1453.5	1452.0	1452.0	1450.5	1450.5	1452.0
7.5°	1446.0	1444.5	1443.0	1441.5	1441.5	1441.5	1441.5	1443.0
10°	1431.0	1428.0	1426.5	1425.0	1423.5	1423.5	1423.5	1425.0
12.5°	1411.5	1408.5	1405.5	1404.0	1404.0	1404.0	1404.0	1407.0
15°	1386.0	1384.5	1383.0	1381.5	1381.5	1380.0	1380.0	1383.0
17.5°	1360.5	1357.5	1354.5	1353.0	1351.5	1351.5	1350.0	1351.5
20°	1326.0	1323.0	1320.0	1318.5	1318.5	1317.0	1317.0	1318.5
22.5°	1288.5	1284.0	1282.5	1281.0	1281.0	1279.5	1279.5	1281.0
25°	1251.0	1245.0	1243.5	1242.0	1242.0	1240.5	1240.5	1240.5
27.5°	1212.0	1206.0	1204.5	1201.5	1203.0	1200.0	1198.5	1200.0
30°	1170.0	1164.0	1162.5	1159.5	1159.5	1156.5	1155.0	1156.5
32.5°	1125.0	1119.0	1117.5	1116.0	1117.5	1111.5	1110.0	1113.0
35°	1078.5	1072.5	1072.5	1069.5	1071.0	1065.0	1065.0	1066.5
37.5°	1030.5	1024.5	1026.0	1023.0	1023.0	1018.5	1018.5	1020.0
40°	982.5	978.0	975.0	975.0	976.5	970.5	970.5	969.0
42.5°	933.0	928.5	927.0	927.0	925.5	921.0	919.5	921.0
45°	883.5	879.0	879.0	877.5	877.5	871.5	873.0	871.5
47.5°	832.5	829.5	828.0	826.5	826.5	820.5	822.0	820.5
50°	781.5	780.0	778.5	777.0	777.0	771.0	774.0	771.0
52.5°	730.5	729.0	727.5	727.5	726.0	723.0	723.0	720.0
55°	679.5	676.5	676.5	676.5	675.0	670.5	673.5	670.5
57.5°	628.5	625.5	624.0	622.5	622.5	621.0	619.5	618.0
60°	576.0	573.0	573.0	570.0	570.0	570.0	568.5	567.0
62.5°	523.5	520.5	520.5	519.0	519.0	519.0	517.5	516.0
65°	472.5	468.0	468.0	466.5	466.5	466.5	465.0	463.5
67.5°	418.5	415.5	415.5	414.0	415.5	415.5	414.0	411.0
70°	363.0	360.0	360.0	358.5	360.0	360.0	358.5	355.5
72.5°	312.0	309.0	307.5	309.0	309.0	309.0	306.0	304.5
75°	261.0	256.5	256.5	258.0	256.5	258.0	255.0	258.0
77.5°	210.0	205.5	205.5	207.0	205.5	205.5	204.0	207.0
80°	157.5	154.5	154.5	156.0	154.5	154.5	153.0	156.0
82.5°	108.0	106.5	108.0	105.0	102.0	102.0	100.5	103.5
85°	60.0	58.5	57.0	57.0	55.5	55.5	54.0	57.0
87.5°	18.0	19.5	19.5	18.0	18.0	18.0	18.0	19.5
90°	7.5	7.5	7.5	9.0	9.0	10.5	10.5	10.5
92.5°	22.5	22.5	21.0	22.5	21.0	21.0	21.0	21.0
95°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
97.5°	75.0	76.5	75.0	76.5	75.0	73.5	75.0	73.5
100°	94.5	97.5	97.5	99.0	99.0	99.0	99.0	99.0
102.5°	112.5	115.5	115.5	117.0	117.0	118.5	118.5	117.0
105°	127.5	129.0	130.5	132.0	135.0	138.0	138.0	138.0
107.5°	148.5	151.5	150.0	151.5	153.0	153.0	153.0	153.0
110°	186.0	183.0	181.5	178.5	178.5	178.5	178.5	178.5



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	217.5	220.5	220.5	220.5	220.5	219.0	216.0	216.0
115°	237.0	243.0	244.5	246.0	249.0	250.5	250.5	250.5
117.5°	252.0	258.0	259.5	262.5	265.5	268.5	270.0	271.5
120°	271.5	276.0	277.5	277.5	280.5	282.0	285.0	285.0
122.5°	294.0	295.5	295.5	295.5	297.0	298.5	300.0	300.0
125°	324.0	319.5	319.5	316.5	316.5	315.0	316.5	316.5
127.5°	361.5	355.5	352.5	348.0	345.0	340.5	340.5	340.5
130°	414.0	403.5	397.5	390.0	384.0	375.0	375.0	375.0
132.5°	471.0	454.5	450.0	442.5	433.5	424.5	423.0	423.0
135°	529.5	511.5	505.5	498.0	487.5	480.0	474.0	478.5
137.5°	585.0	568.5	567.0	561.0	547.5	538.5	537.0	537.0
140°	642.0	624.0	621.0	615.0	607.5	598.5	594.0	595.5
142.5°	697.5	679.5	676.5	672.0	661.5	654.0	649.5	651.0
145°	754.5	736.5	733.5	727.5	717.0	711.0	705.0	709.5
147.5°	808.5	792.0	787.5	780.0	774.0	766.5	762.0	760.5
150°	861.0	844.5	841.5	834.0	828.0	822.0	816.0	819.0
152.5°	910.5	898.5	892.5	885.0	880.5	874.5	870.0	871.5
155°	957.0	942.0	939.0	933.0	930.0	924.0	921.0	921.0
157.5°	997.5	988.5	984.0	979.5	975.0	972.0	967.5	969.0
160°	1041.0	1032.0	1027.5	1024.5	1018.5	1018.5	1014.0	1015.5
162.5°	1081.5	1074.0	1069.5	1066.5	1063.5	1062.0	1057.5	1059.0
165°	1117.5	1110.0	1108.5	1104.0	1102.5	1102.5	1098.0	1098.0
167.5°	1150.5	1144.5	1140.0	1138.5	1135.5	1135.5	1132.5	1134.0
170°	1182.0	1176.0	1173.0	1170.0	1167.0	1167.0	1165.5	1165.5
172.5°	1209.0	1204.5	1203.0	1200.0	1198.5	1198.5	1197.0	1197.0
175°	1234.5	1230.0	1228.5	1225.5	1224.0	1222.5	1222.5	1222.5
177.5°	1257.0	1255.5	1252.5	1252.5	1249.5	1246.5	1243.5	1242.0
180°	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5	1276.5

(END OF REPORT)