

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: P303172

Luminaire Tested: **CTW-F-5050-50L840-UNV-STD-6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303172  
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-5050-50L840-UNV-STD-6  
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE  
50% UPLIGHT, 50% DOWNLIGHT, 5000 LUMEN PACKAGE  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

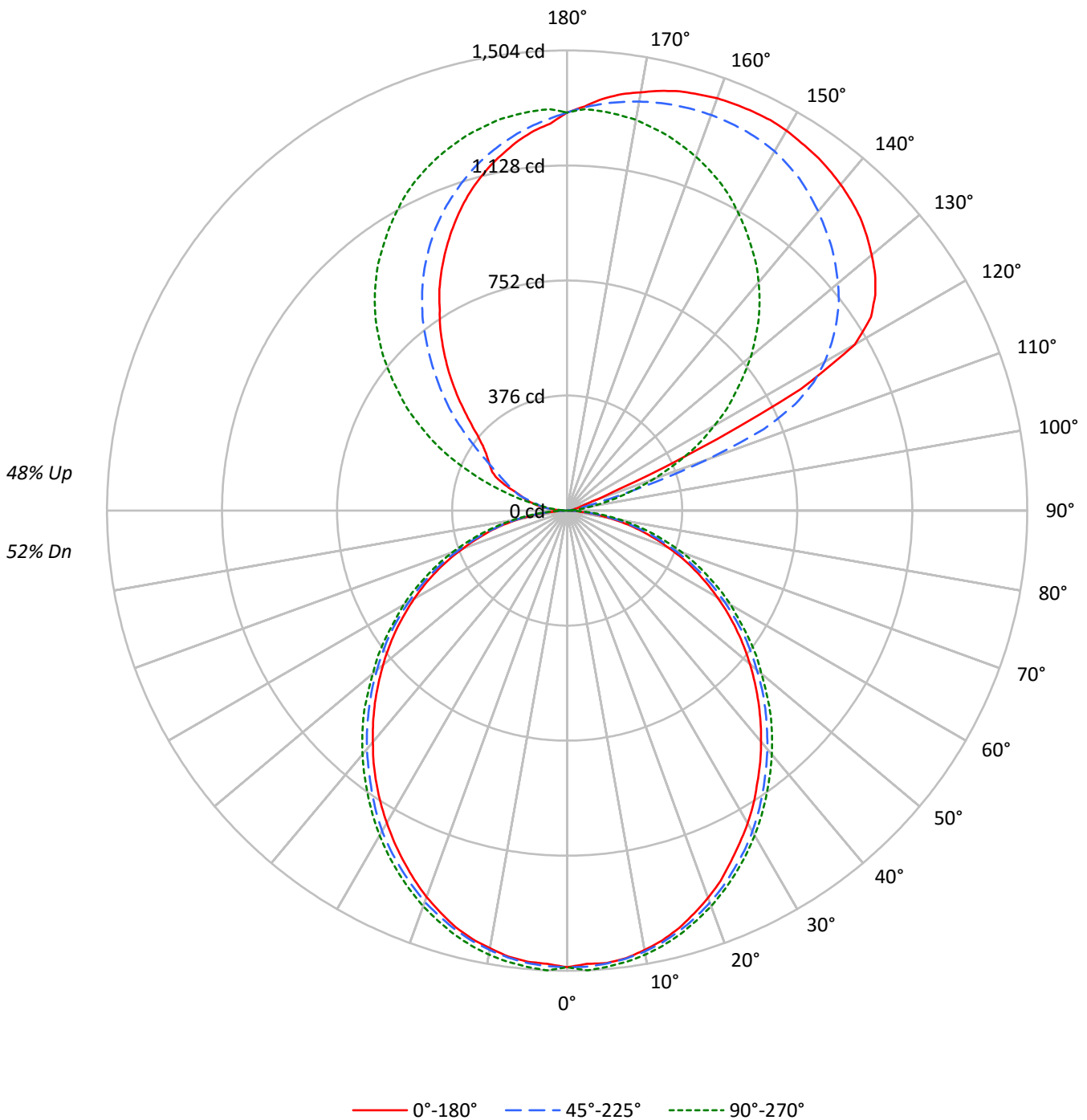
Lumens per Lamp: N/A  
Luminaire Lumens: 7677.6 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32  
Luminous Opening: Rectangular (W 6' x L: 0.12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 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°	21416	21416	21416
5°	21387	21563	21320
10°	21255	21478	21166
15°	20990	21284	20944
20°	20571	21016	20525
25°	20046	20675	20022
30°	19560	20319	19534
35°	18992	19901	19045
40°	18475	19505	18503
45°	17936	19083	18029
50°	17409	18501	17545
55°	16870	18093	17100
60°	16281	17730	16588
65°	15628	17238	16042
70°	14691	16743	15203
75°	13563	16025	14584
80°	11629	14910	13141
85°	7295	13091	9567



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.9	1.8
10°-20°	399.0	5.2
20°-30°	590.7	7.7
30°-40°	693.7	9.0
40°-50°	703.4	9.2
50°-60°	627.4	8.2
60°-70°	480.9	6.3
70°-80°	283.1	3.7
80°-90°	76.3	1.0
90°-100°	37.0	0.5
100°-110°	159.8	2.1
110°-120°	447.9	5.8
120°-130°	647.6	8.4
130°-140°	699.0	9.1
140°-150°	664.8	8.7
150°-160°	545.6	7.1
160°-170°	356.7	4.6
170°-180°	123.6	1.6
0°-30°	1130.6	14.7
0°-40°	1824.3	23.8
0°-60°	3155.1	41.1
0°-90°	3995.5	52.0
90°-120°	644.8	8.4
90°-150°	2656.2	34.6
90°-180°	3682.0	48.0
0°-180°	7677.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1492	1492	1492	1492	1492	
5°	1484	1486	1497	1484	1480	141
15°	1413	1422	1432	1417	1410	398
25°	1266	1292	1306	1289	1264	584
35°	1084	1116	1136	1114	1087	679
45°	884	916	940	916	888	682
55°	674	703	723	708	683	603
65°	460	482	508	489	472	455
75°	245	261	289	269	263	258
85°	44	58	80	66	58	57
90°	2	2	2	8	11	2
95°	9	11	28	50	46	10
105°	40	116	180	125	141	47
115°	463	822	433	225	255	512
125°	1229	1075	671	372	323	1090
135°	1355	1222	885	599	488	1045
145°	1417	1324	1050	827	723	888
155°	1439	1371	1183	1018	939	665
165°	1419	1371	1269	1164	1119	402
175°	1352	1335	1310	1264	1246	130
180°	1301	1301	1301	1301	1301	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2
2.5°	1483.0	1481.5	1486.0	1489.1	1489.1	1490.6	1493.7	1495.2	1493.7	1499.8	1492.2
5°	1484.5	1481.5	1483.0	1483.0	1481.5	1483.0	1486.0	1487.6	1487.6	1493.7	1486.0
7.5°	1475.3	1473.8	1475.3	1473.8	1472.3	1473.8	1475.3	1478.4	1476.9	1483.0	1476.9
10°	1458.5	1457.0	1457.0	1457.0	1455.5	1457.0	1460.0	1463.1	1463.1	1467.7	1463.1
12.5°	1438.6	1435.6	1437.1	1438.6	1435.6	1437.1	1440.2	1443.2	1443.2	1449.3	1444.8
15°	1412.7	1411.1	1414.2	1417.2	1414.2	1414.2	1417.2	1418.8	1420.3	1424.9	1421.8
17.5°	1380.5	1380.5	1383.6	1388.2	1385.1	1385.1	1388.2	1391.2	1391.2	1394.3	1394.3
20°	1346.9	1345.4	1348.4	1351.5	1351.5	1350.0	1354.6	1357.6	1359.1	1362.2	1363.7
22.5°	1310.2	1307.2	1308.7	1313.3	1311.7	1311.7	1313.3	1319.4	1322.5	1325.5	1330.1
25°	1265.9	1265.9	1268.9	1272.0	1272.0	1272.0	1273.5	1278.1	1282.7	1287.3	1291.9
27.5°	1223.1	1223.1	1224.6	1230.7	1230.7	1229.2	1232.2	1239.9	1244.5	1247.5	1253.7
30°	1180.3	1175.7	1180.3	1184.9	1187.9	1184.9	1189.4	1195.6	1198.6	1203.2	1210.8
32.5°	1134.4	1132.9	1132.9	1139.0	1142.0	1140.5	1142.0	1149.7	1155.8	1157.3	1165.0
35°	1084.0	1085.5	1085.5	1090.1	1093.1	1091.6	1093.1	1100.8	1106.9	1108.4	1116.1
37.5°	1036.6	1036.6	1036.6	1041.1	1044.2	1044.2	1044.2	1051.8	1058.0	1062.5	1067.1
40°	986.1	987.6	986.1	990.7	995.3	993.7	995.3	1001.4	1009.0	1013.6	1018.2
42.5°	935.7	934.1	934.1	938.7	944.8	943.3	944.8	950.9	957.1	963.2	966.2
45°	883.7	880.6	883.7	888.3	892.8	894.4	892.8	899.0	905.1	909.7	915.8
47.5°	831.7	830.2	830.2	834.7	839.3	839.3	840.9	845.5	853.1	856.2	863.8
50°	779.7	779.7	778.2	782.8	787.4	788.9	788.9	791.9	799.6	805.7	808.8
52.5°	727.7	727.7	727.7	729.3	732.3	736.9	736.9	740.0	744.5	752.2	756.8
55°	674.2	675.7	674.2	675.7	680.3	683.4	683.4	686.5	691.0	698.7	703.3
57.5°	620.7	622.2	620.7	622.2	626.8	628.4	629.9	632.9	636.0	642.1	646.7
60°	567.2	568.7	567.2	568.7	573.3	576.4	574.8	579.4	582.5	585.5	591.7
62.5°	513.7	516.7	515.2	518.3	519.8	522.9	521.3	525.9	529.0	532.0	538.2
65°	460.2	463.2	461.7	464.8	464.8	467.8	466.3	470.9	473.9	477.0	481.6
67.5°	406.7	409.7	408.2	409.7	411.3	414.3	411.3	417.4	420.4	422.0	426.5
70°	350.1	353.2	351.6	353.2	354.7	356.2	354.7	359.3	363.9	365.4	368.5
72.5°	296.6	299.7	299.7	301.2	301.2	304.2	304.2	304.2	307.3	311.9	313.4
75°	244.6	247.7	247.7	247.7	247.7	250.7	250.7	253.8	255.3	258.4	261.4
77.5°	192.6	195.7	195.7	195.7	195.7	198.7	198.7	201.8	203.3	206.4	209.5
80°	140.7	143.7	145.2	145.2	145.2	146.8	146.8	149.8	151.4	154.4	157.5
82.5°	91.7	93.3	94.8	93.3	94.8	96.3	99.4	99.4	100.9	104.0	107.0
85°	44.3	45.9	47.4	47.4	47.4	48.9	48.9	52.0	53.5	55.0	58.1
87.5°	6.1	7.6	7.6	7.6	7.6	9.2	9.2	9.2	10.7	10.7	13.8
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°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
95°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	10.7
97.5°	13.8	13.8	15.3	13.8	15.3	15.3	15.3	15.3	16.8	16.8	19.9
100°	21.4	21.4	21.4	21.4	21.4	21.4	22.9	22.9	26.0	27.5	32.1
102.5°	29.0	29.0	29.0	30.6	30.6	32.1	32.1	33.6	38.2	44.3	58.1
105°	39.7	39.7	41.3	41.3	42.8	44.3	45.9	52.0	61.2	79.5	116.2
107.5°	55.0	56.6	58.1	59.6	64.2	68.8	73.4	90.2	117.7	174.3	259.9
110°	87.1	88.7	94.8	100.9	116.2	131.5	146.8	203.3	285.9	389.9	484.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	181.9	188.0	192.6	229.3	278.2	321.1	360.8	461.7	570.3	658.9	695.6
115°	463.2	473.9	481.6	553.4	629.9	678.8	709.4	778.2	822.5	836.3	822.5
117.5°	860.7	865.3	876.0	902.0	937.2	954.0	957.1	967.8	957.1	935.7	908.1
120°	1085.5	1085.5	1079.4	1080.9	1076.3	1076.3	1070.2	1053.4	1030.4	1004.5	972.3
122.5°	1177.2	1172.6	1165.0	1158.9	1145.1	1142.0	1132.9	1111.5	1087.0	1061.0	1025.9
125°	1229.2	1224.6	1218.5	1210.8	1195.6	1189.4	1180.3	1158.9	1134.4	1106.9	1074.8
127.5°	1268.9	1264.4	1258.2	1250.6	1236.8	1230.7	1220.0	1198.6	1174.2	1148.2	1119.1
130°	1299.5	1298.0	1290.3	1285.8	1272.0	1265.9	1255.2	1233.8	1210.8	1184.9	1155.8
132.5°	1328.6	1325.5	1317.9	1314.8	1302.6	1294.9	1285.8	1265.9	1243.0	1217.0	1189.4
135°	1354.6	1351.5	1342.3	1339.3	1328.6	1319.4	1311.7	1293.4	1273.5	1247.5	1221.5
137.5°	1374.4	1369.8	1363.7	1360.7	1350.0	1340.8	1334.7	1317.9	1298.0	1273.5	1249.1
140°	1391.2	1386.7	1382.1	1379.0	1369.8	1362.2	1354.6	1337.7	1320.9	1301.0	1276.6
142.5°	1405.0	1402.0	1397.4	1392.8	1383.6	1377.5	1371.4	1357.6	1342.3	1322.5	1301.0
145°	1417.2	1414.2	1409.6	1406.5	1395.8	1391.2	1385.1	1372.9	1359.1	1339.3	1324.0
147.5°	1424.9	1423.4	1420.3	1417.2	1406.5	1402.0	1395.8	1386.7	1372.9	1354.6	1340.8
150°	1434.1	1431.0	1427.9	1426.4	1415.7	1411.1	1408.1	1397.4	1385.1	1368.3	1356.1
152.5°	1438.6	1435.6	1432.5	1431.0	1420.3	1417.2	1414.2	1405.0	1391.2	1376.0	1365.3
155°	1438.6	1437.1	1434.1	1432.5	1421.8	1417.2	1415.7	1406.5	1394.3	1382.1	1371.4
157.5°	1437.1	1434.1	1432.5	1429.5	1420.3	1417.2	1414.2	1406.5	1395.8	1385.1	1374.4
160°	1434.1	1431.0	1429.5	1426.4	1418.8	1415.7	1414.2	1406.5	1398.9	1388.2	1376.0
162.5°	1426.4	1424.9	1423.4	1421.8	1415.7	1412.7	1411.1	1405.0	1395.8	1386.7	1374.4
165°	1418.8	1415.7	1414.2	1411.1	1405.0	1405.0	1403.5	1398.9	1389.7	1385.1	1371.4
167.5°	1405.0	1400.4	1400.4	1395.8	1391.2	1391.2	1389.7	1388.2	1380.5	1377.5	1365.3
170°	1388.2	1386.7	1383.6	1382.1	1379.0	1379.0	1377.5	1376.0	1369.8	1369.8	1357.6
172.5°	1372.9	1371.4	1369.8	1366.8	1362.2	1362.2	1362.2	1362.2	1357.6	1357.6	1346.9
175°	1351.5	1348.4	1348.4	1346.9	1343.9	1345.4	1345.4	1345.4	1342.3	1345.4	1334.7
177.5°	1322.5	1319.4	1322.5	1325.5	1324.0	1325.5	1327.0	1327.0	1324.0	1328.6	1319.4
180°	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2
2.5°	1486.0	1487.6	1486.0	1487.6	1489.1	1487.6	1489.1	1495.2	1501.3	1504.4	1501.3
5°	1479.9	1481.5	1479.9	1481.5	1483.0	1481.5	1483.0	1487.6	1495.2	1496.7	1495.2
7.5°	1470.7	1472.3	1470.7	1472.3	1472.3	1472.3	1472.3	1478.4	1484.5	1487.6	1484.5
10°	1455.5	1457.0	1455.5	1458.5	1458.5	1458.5	1458.5	1464.6	1470.7	1473.8	1469.2
12.5°	1437.1	1438.6	1437.1	1440.2	1438.6	1440.2	1441.7	1446.3	1452.4	1455.5	1452.4
15°	1412.7	1415.7	1414.2	1417.2	1417.2	1417.2	1417.2	1423.4	1429.5	1432.5	1429.5
17.5°	1385.1	1386.7	1386.7	1389.7	1389.7	1389.7	1391.2	1397.4	1402.0	1405.0	1402.0
20°	1354.6	1357.6	1357.6	1359.1	1359.1	1360.7	1362.2	1366.8	1372.9	1376.0	1372.9
22.5°	1320.9	1324.0	1325.5	1325.5	1325.5	1327.0	1328.6	1333.2	1340.8	1342.3	1339.3
25°	1285.8	1285.8	1288.8	1288.8	1290.3	1291.9	1293.4	1296.5	1304.1	1305.6	1304.1
27.5°	1247.5	1246.0	1247.5	1250.6	1250.6	1253.7	1255.2	1258.2	1264.4	1267.4	1264.4
30°	1204.7	1204.7	1207.8	1209.3	1209.3	1210.8	1213.9	1217.0	1223.1	1226.1	1223.1
32.5°	1161.9	1160.4	1165.0	1165.0	1166.5	1168.0	1169.6	1174.2	1178.7	1181.8	1180.3
35°	1117.6	1113.0	1119.1	1119.1	1120.6	1123.7	1123.7	1126.8	1132.9	1135.9	1132.9
37.5°	1071.7	1067.1	1071.7	1074.8	1073.2	1076.3	1077.8	1080.9	1087.0	1088.5	1088.5
40°	1024.3	1019.7	1024.3	1025.9	1025.9	1027.4	1030.4	1032.0	1036.6	1041.1	1038.1
42.5°	972.3	970.8	973.9	976.9	976.9	978.5	980.0	981.5	986.1	990.7	987.6
45°	920.4	920.4	923.4	926.5	928.0	928.0	929.5	931.1	934.1	940.2	935.7
47.5°	868.4	868.4	871.4	873.0	873.0	874.5	877.6	877.6	883.7	883.7	885.2
50°	813.3	816.4	819.5	824.0	821.0	822.5	825.6	825.6	828.6	828.6	833.2
52.5°	759.8	761.4	766.0	770.5	772.1	770.5	772.1	772.1	775.1	779.7	776.7
55°	706.3	706.3	712.4	717.0	717.0	717.0	717.0	718.6	723.1	723.1	723.1
57.5°	651.3	652.8	657.4	663.5	663.5	663.5	663.5	665.0	668.1	666.6	671.2
60°	597.8	597.8	603.9	607.0	607.0	610.0	610.0	611.5	613.1	617.7	617.7
62.5°	544.3	544.3	548.9	551.9	555.0	553.4	555.0	556.5	559.6	564.1	561.1
65°	489.2	489.2	493.8	495.3	499.9	498.4	499.9	504.5	506.0	507.6	506.0
67.5°	432.7	434.2	438.8	440.3	444.9	446.4	444.9	451.0	452.5	455.6	454.1
70°	373.0	374.6	380.7	382.2	385.3	383.7	386.8	394.4	397.5	399.0	396.0
72.5°	319.5	321.1	327.2	328.7	331.8	330.2	333.3	337.9	340.9	342.5	342.5
75°	264.5	267.5	270.6	273.7	278.2	276.7	279.8	284.4	287.4	289.0	289.0
77.5°	212.5	214.0	218.6	220.2	224.7	223.2	224.7	227.8	232.4	233.9	233.9
80°	160.5	163.6	165.1	168.2	171.2	169.7	172.8	177.3	178.9	180.4	180.4
82.5°	110.1	111.6	114.7	117.7	120.8	122.3	123.8	126.9	128.4	128.4	128.4
85°	61.2	64.2	67.3	68.8	71.9	70.3	74.9	78.0	79.5	79.5	81.0
87.5°	16.8	19.9	21.4	24.5	27.5	27.5	27.5	33.6	33.6	35.2	35.2
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°	4.6	6.1	6.1	7.6	9.2	10.7	15.3	15.3	12.2	10.7	12.2
95°	12.2	13.8	16.8	26.0	32.1	36.7	42.8	41.3	35.2	27.5	26.0
97.5°	22.9	29.0	41.3	62.7	74.9	81.0	87.1	78.0	65.7	53.5	48.9
100°	42.8	58.1	88.7	125.4	139.1	145.2	143.7	123.8	107.0	87.1	76.4
102.5°	81.0	123.8	175.8	217.1	226.3	218.6	206.4	181.9	157.5	130.0	113.1
105°	175.8	249.2	302.7	318.0	322.6	307.3	278.2	247.7	212.5	180.4	155.9
107.5°	350.1	417.4	437.2	426.5	420.4	394.4	357.7	318.0	276.7	237.0	206.4
110°	555.0	567.2	553.4	519.8	501.5	478.5	437.2	391.4	339.4	299.7	263.0





TEST NUMBER: P303172

CATALOG NUMBER: CTW-F-5050-50L840-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	704.8	678.8	643.6	599.3	577.9	553.4	509.1	464.8	408.2	363.9	324.1
115°	801.1	762.9	720.1	672.7	649.8	623.8	579.4	530.5	473.9	432.7	386.8
117.5°	876.0	828.6	785.8	740.0	718.6	692.6	648.2	594.7	538.2	496.9	451.0
120°	934.1	889.8	845.5	802.6	778.2	756.8	710.9	657.4	600.8	555.0	512.2
122.5°	986.1	944.8	902.0	860.7	837.8	813.3	766.0	714.0	662.0	619.2	576.4
125°	1035.0	996.8	954.0	912.7	889.8	865.3	819.5	769.0	717.0	671.2	634.5
127.5°	1080.9	1044.2	1001.4	961.6	938.7	912.7	868.4	819.5	775.1	727.7	691.0
130°	1122.2	1088.5	1047.3	1007.5	984.6	960.1	915.8	868.4	825.6	784.3	744.5
132.5°	1158.9	1125.2	1085.5	1048.8	1024.3	1002.9	960.1	915.8	873.0	834.7	798.1
135°	1194.0	1158.9	1122.2	1084.0	1062.5	1042.7	1001.4	960.1	920.4	885.2	851.6
137.5°	1226.1	1187.9	1151.2	1114.5	1094.7	1077.8	1038.1	999.9	966.2	931.1	897.4
140°	1253.7	1213.9	1180.3	1145.1	1126.8	1109.9	1073.2	1036.6	1007.5	973.9	941.8
142.5°	1275.1	1235.3	1204.7	1171.1	1154.3	1140.5	1105.4	1073.2	1044.2	1015.2	983.0
145°	1291.9	1256.7	1227.7	1195.6	1181.8	1166.5	1134.4	1105.4	1079.4	1050.3	1021.3
147.5°	1308.7	1278.1	1249.1	1220.0	1206.3	1192.5	1163.5	1137.5	1113.0	1087.0	1058.0
150°	1322.5	1294.9	1268.9	1243.0	1230.7	1217.0	1191.0	1166.5	1145.1	1120.6	1093.1
152.5°	1331.6	1308.7	1285.8	1262.8	1250.6	1239.9	1215.4	1195.6	1175.7	1154.3	1126.8
155°	1339.3	1320.9	1299.5	1279.6	1268.9	1259.8	1236.8	1218.5	1201.7	1183.3	1158.9
157.5°	1346.9	1328.6	1310.2	1291.9	1282.7	1273.5	1253.7	1239.9	1224.6	1207.8	1184.9
160°	1350.0	1336.2	1317.9	1302.6	1294.9	1287.3	1270.5	1258.2	1246.0	1230.7	1209.3
162.5°	1351.5	1339.3	1324.0	1311.7	1305.6	1299.5	1282.7	1273.5	1262.8	1250.6	1232.2
165°	1351.5	1342.3	1330.1	1319.4	1313.3	1308.7	1294.9	1287.3	1279.6	1268.9	1252.1
167.5°	1350.0	1340.8	1331.6	1322.5	1317.9	1313.3	1302.6	1298.0	1291.9	1282.7	1268.9
170°	1345.4	1339.3	1330.1	1324.0	1320.9	1316.3	1308.7	1305.6	1302.6	1296.5	1282.7
172.5°	1337.7	1333.2	1327.0	1322.5	1320.9	1316.3	1310.2	1308.7	1308.7	1304.1	1293.4
175°	1327.0	1325.5	1320.9	1317.9	1314.8	1313.3	1308.7	1310.2	1311.7	1310.2	1301.0
177.5°	1313.3	1313.3	1310.2	1310.2	1308.7	1307.2	1305.6	1308.7	1313.3	1313.3	1307.2
180°	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0



TEST NUMBER: P303172

CATALOG NUMBER: CTW-F-5050-50L840-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2
2.5°	1496.7	1490.6	1489.1	1489.1	1487.6	1484.5	1483.0	1484.5	1490.6	1499.8	1490.6
5°	1490.6	1484.5	1481.5	1481.5	1481.5	1476.9	1476.9	1476.9	1484.5	1492.2	1483.0
7.5°	1479.9	1473.8	1472.3	1472.3	1470.7	1467.7	1466.2	1467.7	1473.8	1481.5	1472.3
10°	1466.2	1460.0	1458.5	1457.0	1455.5	1452.4	1450.9	1452.4	1458.5	1464.6	1457.0
12.5°	1447.8	1441.7	1438.6	1440.2	1437.1	1432.5	1432.5	1432.5	1440.2	1444.8	1437.1
15°	1424.9	1417.2	1415.7	1415.7	1414.2	1409.6	1409.6	1409.6	1417.2	1420.3	1411.1
17.5°	1397.4	1391.2	1389.7	1389.7	1386.7	1382.1	1382.1	1380.5	1389.7	1391.2	1385.1
20°	1368.3	1362.2	1359.1	1359.1	1356.1	1351.5	1351.5	1350.0	1360.7	1357.6	1353.0
22.5°	1336.2	1328.6	1325.5	1327.0	1324.0	1317.9	1317.9	1316.3	1325.5	1320.9	1314.8
25°	1301.0	1291.9	1290.3	1288.8	1287.3	1279.6	1279.6	1279.6	1288.8	1281.2	1276.6
27.5°	1259.8	1253.7	1252.1	1247.5	1247.5	1241.4	1241.4	1241.4	1250.6	1239.9	1238.4
30°	1218.5	1212.4	1212.4	1207.8	1206.3	1200.1	1200.1	1200.1	1209.3	1198.6	1195.6
32.5°	1177.2	1169.6	1166.5	1163.5	1163.5	1157.3	1157.3	1157.3	1163.5	1152.7	1149.7
35°	1131.3	1123.7	1123.7	1117.6	1117.6	1111.5	1109.9	1113.0	1114.5	1105.4	1102.3
37.5°	1084.0	1076.3	1076.3	1071.7	1071.7	1065.6	1065.6	1070.2	1065.6	1061.0	1054.9
40°	1036.6	1030.4	1027.4	1022.8	1024.3	1019.7	1018.2	1021.3	1018.2	1013.6	1006.0
42.5°	986.1	980.0	978.5	975.4	975.4	970.8	969.3	972.3	967.8	961.6	957.1
45°	935.7	931.1	929.5	926.5	926.5	920.4	920.4	921.9	915.8	912.7	906.6
47.5°	882.1	879.1	876.0	876.0	874.5	869.9	869.9	869.9	865.3	862.3	854.6
50°	830.2	825.6	824.0	824.0	824.0	819.5	817.9	814.9	811.8	810.3	802.6
52.5°	776.7	773.6	772.1	772.1	773.6	766.0	764.4	761.4	759.8	758.3	749.1
55°	723.1	720.1	717.0	720.1	718.6	712.4	710.9	712.4	707.9	703.3	695.6
57.5°	669.6	665.0	665.0	666.6	665.0	658.9	657.4	658.9	652.8	648.2	642.1
60°	616.1	611.5	610.0	611.5	610.0	603.9	602.4	602.4	597.8	594.7	588.6
62.5°	562.6	558.0	558.0	558.0	556.5	553.4	548.9	548.9	544.3	539.7	535.1
65°	506.0	501.5	503.0	503.0	503.0	499.9	495.3	496.9	489.2	486.2	481.6
67.5°	452.5	448.0	448.0	448.0	448.0	448.0	440.3	438.8	434.2	432.7	428.1
70°	396.0	389.9	391.4	389.9	388.3	386.8	382.2	380.7	376.1	376.1	371.5
72.5°	339.4	336.3	336.3	336.3	334.8	333.3	330.2	328.7	322.6	322.6	319.5
75°	282.8	282.8	281.3	281.3	281.3	279.8	276.7	275.2	269.1	270.6	267.5
77.5°	230.9	230.9	227.8	227.8	227.8	226.3	224.7	220.2	220.2	217.1	215.6
80°	177.3	177.3	175.8	175.8	175.8	174.3	172.8	171.2	168.2	166.6	163.6
82.5°	128.4	126.9	125.4	125.4	123.8	123.8	122.3	120.8	117.7	113.1	111.6
85°	78.0	78.0	76.4	76.4	74.9	74.9	71.9	68.8	65.7	62.7	61.2
87.5°	33.6	33.6	29.0	29.0	27.5	27.5	26.0	24.5	21.4	19.9	18.3
90°	3.1	4.6	4.6	4.6	6.1	6.1	6.1	7.6	7.6	7.6	7.6
92.5°	18.3	22.9	24.5	24.5	24.5	24.5	24.5	24.5	24.5	22.9	22.9
95°	30.6	33.6	41.3	44.3	47.4	50.5	50.5	50.5	50.5	48.9	45.9
97.5°	45.9	48.9	53.5	53.5	55.0	62.7	68.8	71.9	74.9	76.4	76.4
100°	71.9	65.7	71.9	76.4	74.9	74.9	78.0	84.1	90.2	93.3	94.8
102.5°	102.4	91.7	88.7	91.7	94.8	100.9	97.8	99.4	102.4	107.0	111.6
105°	140.7	126.9	116.2	114.7	114.7	120.8	128.4	126.9	125.4	125.4	125.4
107.5°	185.0	165.1	148.3	145.2	142.2	142.2	146.8	155.9	162.1	155.9	152.9
110°	235.4	207.9	191.1	181.9	175.8	169.7	169.7	174.3	181.9	189.6	192.6



TEST NUMBER: P303172

CATALOG NUMBER: CTW-F-5050-50L840-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	292.0	258.4	235.4	227.8	215.6	201.8	197.2	197.2	201.8	209.5	215.6
115°	350.1	314.9	282.8	273.7	261.4	240.0	227.8	224.7	224.7	227.8	233.9
117.5°	414.3	371.5	336.3	324.1	310.4	285.9	266.0	255.3	250.7	250.7	253.8
120°	470.9	434.2	397.5	380.7	363.9	336.3	310.4	293.5	282.8	276.7	275.2
122.5°	535.1	496.9	457.1	443.4	425.0	392.9	365.4	339.4	322.6	310.4	301.2
125°	593.2	558.0	516.7	499.9	483.1	451.0	423.5	394.4	371.5	351.6	336.3
127.5°	649.8	614.6	574.8	559.6	542.7	509.1	480.1	452.5	428.1	403.6	382.2
130°	706.3	672.7	632.9	616.1	600.8	568.7	536.6	509.1	487.7	463.2	438.8
132.5°	761.4	726.2	689.5	671.2	657.4	625.3	596.2	567.2	542.7	521.3	498.4
135°	813.3	779.7	743.0	724.7	710.9	681.9	652.8	626.8	599.3	577.9	556.5
137.5°	862.3	828.6	796.5	776.7	762.9	736.9	709.4	684.9	657.4	634.5	613.1
140°	908.1	876.0	845.5	828.6	813.3	787.4	762.9	743.0	714.0	692.6	671.2
142.5°	950.9	918.8	889.8	876.0	860.7	836.3	813.3	795.0	773.6	750.7	729.3
145°	989.2	961.6	934.1	920.4	906.6	883.7	862.3	845.5	827.1	804.2	784.3
147.5°	1028.9	1001.4	975.4	963.2	952.5	929.5	909.7	892.8	879.1	857.7	837.8
150°	1065.6	1039.6	1016.7	1004.5	995.3	970.8	955.5	938.7	928.0	908.1	891.3
152.5°	1100.8	1077.8	1054.9	1045.7	1035.0	1012.1	996.8	980.0	973.9	954.0	940.2
155°	1134.4	1109.9	1091.6	1082.4	1071.7	1050.3	1038.1	1022.8	1018.2	999.9	986.1
157.5°	1165.0	1140.5	1123.7	1114.5	1105.4	1087.0	1074.8	1061.0	1058.0	1044.2	1028.9
160°	1191.0	1168.0	1152.7	1146.6	1137.5	1120.6	1108.4	1097.7	1094.7	1085.5	1070.2
162.5°	1213.9	1194.0	1181.8	1174.2	1166.5	1151.2	1142.0	1129.8	1129.8	1122.2	1109.9
165°	1236.8	1218.5	1206.3	1200.1	1194.0	1181.8	1171.1	1163.5	1163.5	1157.3	1145.1
167.5°	1255.2	1238.4	1229.2	1223.1	1218.5	1206.3	1198.6	1191.0	1192.5	1189.4	1177.2
170°	1272.0	1256.7	1249.1	1244.5	1239.9	1229.2	1224.6	1217.0	1218.5	1218.5	1207.8
172.5°	1285.8	1272.0	1265.9	1261.3	1259.8	1249.1	1246.0	1241.4	1243.0	1246.0	1232.2
175°	1294.9	1284.2	1278.1	1276.6	1273.5	1267.4	1262.8	1261.3	1264.4	1268.9	1256.7
177.5°	1302.6	1293.4	1290.3	1290.3	1287.3	1281.2	1278.1	1278.1	1282.7	1288.8	1279.6
180°	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0



TEST NUMBER: P303172

CATALOG NUMBER: CTW-F-5050-50L840-UNV-STD-6

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2	1492.2
2.5°	1493.7	1492.2	1490.6	1487.6	1486.0	1483.0	1481.5	1483.0
5°	1484.5	1483.0	1481.5	1479.9	1479.9	1478.4	1478.4	1479.9
7.5°	1473.8	1472.3	1470.7	1469.2	1469.2	1469.2	1469.2	1470.7
10°	1458.5	1455.5	1453.9	1452.4	1450.9	1450.9	1450.9	1452.4
12.5°	1438.6	1435.6	1432.5	1431.0	1431.0	1431.0	1431.0	1434.1
15°	1412.7	1411.1	1409.6	1408.1	1408.1	1406.5	1406.5	1409.6
17.5°	1386.7	1383.6	1380.5	1379.0	1377.5	1377.5	1376.0	1377.5
20°	1351.5	1348.4	1345.4	1343.9	1343.9	1342.3	1342.3	1343.9
22.5°	1313.3	1308.7	1307.2	1305.6	1305.6	1304.1	1304.1	1305.6
25°	1275.1	1268.9	1267.4	1265.9	1265.9	1264.4	1264.4	1264.4
27.5°	1235.3	1229.2	1227.7	1224.6	1226.1	1223.1	1221.5	1223.1
30°	1192.5	1186.4	1184.9	1181.8	1181.8	1178.7	1177.2	1178.7
32.5°	1146.6	1140.5	1139.0	1137.5	1139.0	1132.9	1131.3	1134.4
35°	1099.2	1093.1	1093.1	1090.1	1091.6	1085.5	1085.5	1087.0
37.5°	1050.3	1044.2	1045.7	1042.7	1042.7	1038.1	1038.1	1039.6
40°	1001.4	996.8	993.7	993.7	995.3	989.2	989.2	987.6
42.5°	950.9	946.4	944.8	944.8	943.3	938.7	937.2	938.7
45°	900.5	895.9	895.9	894.4	894.4	888.3	889.8	888.3
47.5°	848.5	845.5	843.9	842.4	842.4	836.3	837.8	836.3
50°	796.5	795.0	793.5	791.9	791.9	785.8	788.9	785.8
52.5°	744.5	743.0	741.5	741.5	740.0	736.9	736.9	733.8
55°	692.6	689.5	689.5	689.5	688.0	683.4	686.5	683.4
57.5°	640.6	637.5	636.0	634.5	634.5	632.9	631.4	629.9
60°	587.1	584.0	584.0	581.0	581.0	581.0	579.4	577.9
62.5°	533.6	530.5	530.5	529.0	529.0	529.0	527.5	525.9
65°	481.6	477.0	477.0	475.5	475.5	475.5	473.9	472.4
67.5°	426.5	423.5	423.5	422.0	423.5	423.5	422.0	418.9
70°	370.0	366.9	366.9	365.4	366.9	366.9	365.4	362.3
72.5°	318.0	314.9	313.4	314.9	314.9	314.9	311.9	310.4
75°	266.0	261.4	261.4	263.0	261.4	263.0	259.9	263.0
77.5°	214.0	209.5	209.5	211.0	209.5	209.5	207.9	211.0
80°	160.5	157.5	157.5	159.0	157.5	157.5	155.9	159.0
82.5°	110.1	108.5	110.1	107.0	104.0	104.0	102.4	105.5
85°	61.2	59.6	58.1	58.1	56.6	56.6	55.0	58.1
87.5°	18.3	19.9	19.9	18.3	18.3	18.3	18.3	19.9
90°	7.6	7.6	7.6	9.2	9.2	10.7	10.7	10.7
92.5°	22.9	22.9	21.4	22.9	21.4	21.4	21.4	21.4
95°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
97.5°	76.4	78.0	76.4	78.0	76.4	74.9	76.4	74.9
100°	96.3	99.4	99.4	100.9	100.9	100.9	100.9	100.9
102.5°	114.7	117.7	117.7	119.2	119.2	120.8	120.8	119.2
105°	130.0	131.5	133.0	134.5	137.6	140.7	140.7	140.7
107.5°	151.4	154.4	152.9	154.4	155.9	155.9	155.9	155.9
110°	189.6	186.5	185.0	181.9	181.9	181.9	181.9	181.9



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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	221.7	224.7	224.7	224.7	224.7	223.2	220.2	220.2
115°	241.6	247.7	249.2	250.7	253.8	255.3	255.3	255.3
117.5°	256.8	263.0	264.5	267.5	270.6	273.7	275.2	276.7
120°	276.7	281.3	282.8	282.8	285.9	287.4	290.5	290.5
122.5°	299.7	301.2	301.2	301.2	302.7	304.2	305.8	305.8
125°	330.2	325.6	325.6	322.6	322.6	321.1	322.6	322.6
127.5°	368.5	362.3	359.3	354.7	351.6	347.0	347.0	347.0
130°	422.0	411.3	405.1	397.5	391.4	382.2	382.2	382.2
132.5°	480.1	463.2	458.7	451.0	441.8	432.7	431.1	431.1
135°	539.7	521.3	515.2	507.6	496.9	489.2	483.1	487.7
137.5°	596.2	579.4	577.9	571.8	558.0	548.9	547.3	547.3
140°	654.3	636.0	632.9	626.8	619.2	610.0	605.4	607.0
142.5°	710.9	692.6	689.5	684.9	674.2	666.6	662.0	663.5
145°	769.0	750.7	747.6	741.5	730.8	724.7	718.6	723.1
147.5°	824.0	807.2	802.6	795.0	788.9	781.2	776.7	775.1
150°	877.6	860.7	857.7	850.0	843.9	837.8	831.7	834.7
152.5°	928.0	915.8	909.7	902.0	897.4	891.3	886.7	888.3
155°	975.4	960.1	957.1	950.9	947.9	941.8	938.7	938.7
157.5°	1016.7	1007.5	1002.9	998.3	993.7	990.7	986.1	987.6
160°	1061.0	1051.8	1047.3	1044.2	1038.1	1038.1	1033.5	1035.0
162.5°	1102.3	1094.7	1090.1	1087.0	1084.0	1082.4	1077.8	1079.4
165°	1139.0	1131.3	1129.8	1125.2	1123.7	1123.7	1119.1	1119.1
167.5°	1172.6	1166.5	1161.9	1160.4	1157.3	1157.3	1154.3	1155.8
170°	1204.7	1198.6	1195.6	1192.5	1189.4	1189.4	1187.9	1187.9
172.5°	1232.2	1227.7	1226.1	1223.1	1221.5	1221.5	1220.0	1220.0
175°	1258.2	1253.7	1252.1	1249.1	1247.5	1246.0	1246.0	1246.0
177.5°	1281.2	1279.6	1276.6	1276.6	1273.5	1270.5	1267.4	1265.9
180°	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0

(END OF REPORT)