

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: P303234

Luminaire Tested: **CTW-F-7525-50L840-UNV-STD-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTW-F-7525-50L840-UNV-STD-4  
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE  
75% UPLIGHT, 25% DOWNLIGHT, 5000 LUMEN PACKAGE  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

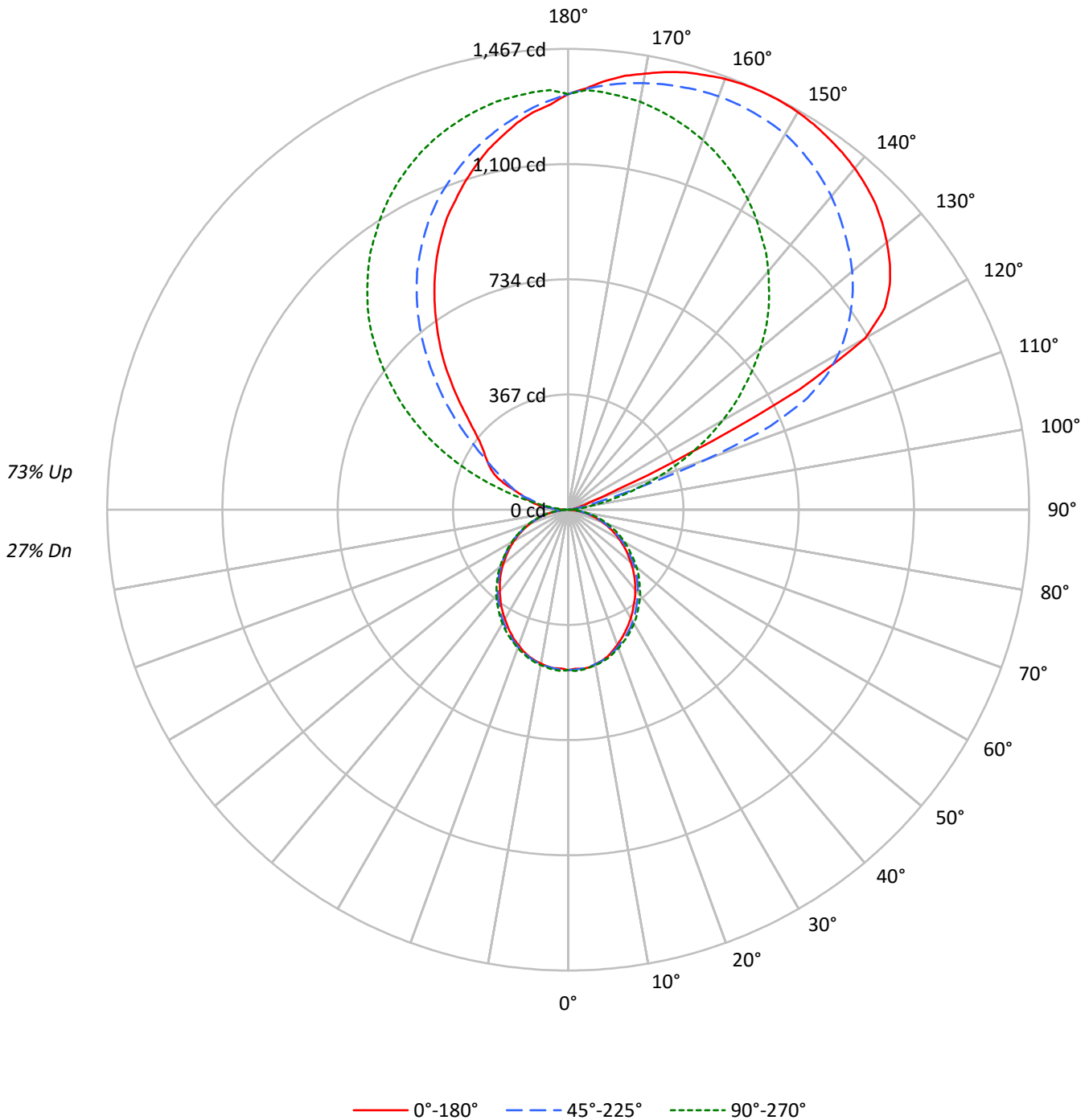
Lumens per Lamp: N/A  
Luminaire Lumens: 5095.6 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.32  
Luminous Opening: Rectangular (W 4' x L: 0.12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 37.5  
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



TEST NUMBER: P303234  
CATALOG NUMBER: CTW-F-7525-50L840-UNV-STD-4

### Luminous Intensity Polar Plot





TEST NUMBER: P303234

CATALOG NUMBER: CTW-F-7525-50L840-UNV-STD-4

**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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	93	88	85	81	82	79	76	73	61	59	57	45	44	43	31	30	29	22
2	84	77	71	66	75	69	64	60	54	50	47	40	38	36	27	26	24	19
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	24	22	21	16
4	70	60	52	46	62	53	47	42	42	37	34	31	28	26	21	19	18	13
5	64	53	45	39	57	48	41	36	37	33	29	28	25	22	19	17	15	12
6	59	47	40	34	52	43	36	31	34	29	25	25	22	19	17	15	14	10
7	54	43	35	30	48	38	32	27	30	25	22	23	19	17	16	14	12	9
8	50	38	31	26	45	35	28	24	27	23	19	21	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	10992	10992	10992
5°	10991	11058	10948
10°	10917	10985	10873
15°	10789	10903	10767
20°	10483	10740	10531
25°	10193	10580	10290
30°	9906	10413	10008
35°	9590	10178	9776
40°	9338	9996	9510
45°	9060	9742	9310
50°	8671	9488	9046
55°	8415	9143	8798
60°	8073	8951	8559
65°	7738	8721	8308
70°	7251	8466	8019
75°	6696	8226	7627
80°	5554	7587	6955
85°	3013	6793	5286



TEST NUMBER: P303234

CATALOG NUMBER: CTW-F-7525-50L840-UNV-STD-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	0.9
10°-20°	136.3	2.7
20°-30°	201.2	3.9
30°-40°	236.1	4.6
40°-50°	239.5	4.7
50°-60°	212.2	4.2
60°-70°	162.4	3.2
70°-80°	96.4	1.9
80°-90°	26.7	0.5
90°-100°	37.3	0.7
100°-110°	158.4	3.1
110°-120°	450.9	8.8
120°-130°	658.9	12.9
130°-140°	710.9	14.0
140°-150°	676.7	13.3
150°-160°	555.2	10.9
160°-170°	362.6	7.1
170°-180°	125.6	2.5
0°-30°	385.8	7.6
0°-40°	621.9	12.2
0°-60°	1073.6	21.1
0°-90°	1359.1	26.7
90°-120°	646.6	12.7
90°-150°	2693.1	52.9
90°-180°	3737.0	73.3
0°-180°	5095.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	511	511	511	511	511	
5°	509	508	512	508	507	48
15°	484	485	489	485	483	136
25°	429	439	445	439	433	198
35°	365	378	387	380	372	229
45°	298	310	320	314	306	229
55°	224	234	244	243	234	200
65°	152	160	171	168	163	150
75°	80	86	99	95	92	84
85°	12	18	28	24	21	17
90°	2	2	1	7	11	2
95°	9	11	28	51	49	10
105°	44	111	178	123	139	51
115°	426	839	438	227	255	495
125°	1250	1098	685	375	329	1107
135°	1381	1244	902	606	491	1066
145°	1444	1347	1069	841	732	906
155°	1467	1395	1203	1034	957	678
165°	1441	1393	1290	1179	1134	408
175°	1371	1357	1333	1285	1270	132
180°	1323	1323	1323	1323	1323	



TEST NUMBER: P303234

CATALOG NUMBER: CTW-F-7525-50L840-UNV-STD-4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6
2.5°	506.6	506.6	507.6	509.6	509.6	509.6	510.6	511.7	510.6	512.7	509.6
5°	508.6	507.6	507.6	507.6	507.6	508.6	508.6	509.6	508.6	510.6	507.6
7.5°	506.6	505.5	505.5	504.5	503.5	503.5	504.5	505.5	504.5	506.6	504.5
10°	499.4	498.4	499.4	498.4	498.4	499.4	499.4	499.4	500.4	501.5	499.4
12.5°	492.3	492.3	491.3	491.3	491.3	491.3	492.3	493.3	493.3	494.3	493.3
15°	484.1	482.1	483.1	484.1	483.1	484.1	484.1	485.2	485.2	486.2	485.2
17.5°	470.9	470.9	471.9	472.9	472.9	472.9	473.9	473.9	475.0	476.0	475.0
20°	457.6	457.6	457.6	459.7	459.7	459.7	460.7	461.7	462.7	463.8	463.8
22.5°	443.4	443.4	443.4	445.4	445.4	445.4	447.4	448.5	449.5	450.5	451.5
25°	429.1	429.1	430.1	431.1	431.1	431.1	433.2	434.2	435.2	436.2	439.3
27.5°	413.8	413.8	414.8	415.8	416.9	417.9	418.9	419.9	422.0	423.0	426.0
30°	398.5	397.5	398.5	400.6	401.6	401.6	403.6	404.6	406.7	407.7	410.8
32.5°	382.2	381.2	382.2	384.3	385.3	385.3	387.3	388.3	390.4	391.4	395.5
35°	364.9	364.9	366.9	366.9	367.9	369.0	370.0	372.0	374.1	375.1	378.1
37.5°	349.6	348.6	350.6	350.6	351.6	352.7	353.7	355.7	357.8	359.8	361.8
40°	332.3	330.2	332.3	333.3	334.3	335.3	336.3	337.4	340.4	342.5	344.5
42.5°	314.9	312.9	314.9	316.0	318.0	318.0	318.0	320.0	323.1	325.1	327.2
45°	297.6	295.6	297.6	297.6	299.7	300.7	300.7	301.7	304.8	306.8	309.8
47.5°	279.3	279.3	280.3	281.3	282.3	282.3	283.3	284.4	286.4	290.5	291.5
50°	258.9	258.9	259.9	261.9	263.0	265.0	265.0	266.0	268.1	271.1	273.2
52.5°	241.6	240.5	241.6	242.6	243.6	244.6	244.6	245.6	247.7	250.7	252.8
55°	224.2	224.2	224.2	225.3	226.3	226.3	227.3	228.3	229.3	231.4	234.4
57.5°	205.9	205.9	206.9	206.9	207.9	207.9	208.9	210.0	211.0	213.0	216.1
60°	187.5	188.6	187.5	188.6	189.6	189.6	190.6	191.6	192.6	194.7	197.7
62.5°	170.2	170.2	170.2	170.2	171.2	171.2	172.3	173.3	175.3	176.3	178.4
65°	151.9	151.9	151.9	151.9	153.9	153.9	153.9	155.9	157.0	157.0	160.0
67.5°	133.5	134.5	133.5	134.5	135.6	135.6	135.6	137.6	138.6	139.6	140.7
70°	115.2	116.2	116.2	116.2	117.2	117.2	117.2	119.3	120.3	121.3	122.3
72.5°	97.8	97.8	98.9	98.9	98.9	98.9	99.9	100.9	101.9	102.9	104.0
75°	80.5	80.5	80.5	80.5	81.5	81.5	81.5	83.6	84.6	85.6	85.6
77.5°	62.2	63.2	62.2	62.2	63.2	63.2	64.2	65.2	66.3	68.3	69.3
80°	44.8	44.8	45.9	45.9	46.9	45.9	46.9	47.9	48.9	51.0	51.0
82.5°	28.5	28.5	28.5	29.6	29.6	30.6	30.6	30.6	31.6	33.6	34.7
85°	12.2	12.2	12.2	12.2	14.3	14.3	14.3	15.3	16.3	17.3	18.3
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.1	3.1
90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
92.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
95°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	10.2	10.2	11.2
97.5°	14.3	14.3	14.3	14.3	14.3	15.3	15.3	16.3	17.3	18.3	20.4
100°	21.4	21.4	22.4	22.4	22.4	23.4	23.4	25.5	27.5	30.6	35.7
102.5°	31.6	30.6	31.6	31.6	32.6	33.6	34.7	37.7	41.8	48.9	60.1
105°	43.8	42.8	43.8	44.8	46.9	48.9	51.0	57.1	66.3	82.6	111.1
107.5°	62.2	61.2	63.2	66.3	70.3	75.4	80.5	91.7	120.3	166.1	234.4
110°	91.7	95.8	99.9	109.1	122.3	136.6	145.8	194.7	254.8	353.7	466.8



TEST NUMBER: P303234

CATALOG NUMBER: CTW-F-7525-50L840-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	176.3	189.6	201.8	232.4	275.2	314.9	338.4	447.4	539.2	636.0	696.1
115°	426.0	457.6	467.8	545.3	610.5	664.5	688.0	777.7	817.4	836.8	838.8
117.5°	830.7	860.2	860.2	906.1	942.8	960.1	962.2	971.3	964.2	952.0	927.5
120°	1090.6	1092.6	1096.7	1095.7	1096.7	1094.7	1087.5	1074.3	1049.8	1024.3	994.8
122.5°	1194.5	1192.5	1189.4	1180.3	1170.1	1164.0	1152.8	1133.4	1108.9	1079.4	1048.8
125°	1249.6	1246.5	1242.4	1233.3	1220.0	1214.9	1201.7	1180.3	1155.8	1127.3	1097.7
127.5°	1290.3	1287.3	1282.2	1274.0	1260.8	1254.7	1242.4	1220.0	1196.6	1171.1	1141.5
130°	1324.0	1320.9	1315.8	1310.7	1298.5	1290.3	1279.1	1256.7	1235.3	1208.8	1180.3
132.5°	1354.6	1350.5	1345.4	1341.3	1329.1	1323.0	1310.7	1290.3	1268.9	1243.5	1213.9
135°	1381.1	1376.0	1369.8	1365.8	1354.6	1347.4	1336.2	1317.9	1297.5	1273.0	1244.5
137.5°	1401.4	1396.3	1391.3	1385.1	1376.0	1365.8	1359.7	1343.3	1323.0	1300.5	1275.1
140°	1418.8	1414.7	1409.6	1405.5	1395.3	1385.1	1379.0	1364.8	1345.4	1326.0	1302.6
142.5°	1433.0	1430.0	1424.9	1419.8	1410.6	1401.4	1396.3	1383.1	1367.8	1347.4	1326.0
145°	1444.3	1441.2	1437.1	1433.0	1423.9	1416.7	1410.6	1401.4	1386.2	1365.8	1347.4
147.5°	1454.4	1451.4	1448.3	1444.3	1435.1	1430.0	1424.9	1414.7	1399.4	1381.1	1365.8
150°	1461.6	1458.5	1455.5	1452.4	1443.2	1438.1	1435.1	1424.9	1411.6	1393.3	1381.1
152.5°	1465.7	1462.6	1459.5	1457.5	1448.3	1443.2	1440.2	1431.0	1417.8	1401.4	1389.2
155°	1466.7	1464.6	1461.6	1458.5	1449.3	1443.2	1442.2	1433.0	1421.8	1406.5	1395.3
157.5°	1464.6	1461.6	1458.5	1455.5	1446.3	1442.2	1440.2	1433.0	1422.8	1410.6	1399.4
160°	1459.5	1456.5	1455.5	1451.4	1444.3	1441.2	1439.2	1433.0	1423.9	1412.7	1400.4
162.5°	1450.4	1449.3	1448.3	1445.3	1440.2	1437.1	1436.1	1430.0	1420.8	1411.6	1398.4
165°	1441.2	1439.2	1437.1	1434.1	1430.0	1427.9	1425.9	1421.8	1412.7	1406.5	1393.3
167.5°	1426.9	1423.9	1421.8	1418.8	1413.7	1414.7	1412.7	1410.6	1403.5	1400.4	1387.2
170°	1409.6	1408.6	1405.5	1403.5	1400.4	1401.4	1400.4	1398.4	1392.3	1390.2	1379.0
172.5°	1393.3	1390.2	1389.2	1387.2	1384.1	1383.1	1384.1	1382.1	1379.0	1380.0	1368.8
175°	1370.9	1367.8	1367.8	1365.8	1363.7	1364.8	1365.8	1366.8	1362.7	1366.8	1356.6
177.5°	1343.3	1341.3	1343.3	1345.4	1344.4	1346.4	1347.4	1348.4	1346.4	1350.5	1341.3
180°	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0



TEST NUMBER: P303234

CATALOG NUMBER: CTW-F-7525-50L840-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6
2.5°	507.6	507.6	507.6	507.6	507.6	507.6	507.6	509.6	512.7	513.7	512.7
5°	505.5	506.6	505.5	506.6	506.6	506.6	506.6	508.6	510.6	511.7	510.6
7.5°	502.5	503.5	502.5	502.5	503.5	502.5	503.5	504.5	506.6	507.6	506.6
10°	497.4	497.4	497.4	498.4	498.4	498.4	498.4	500.4	502.5	502.5	501.5
12.5°	490.3	491.3	491.3	492.3	492.3	491.3	492.3	494.3	495.3	496.4	495.3
15°	483.1	483.1	483.1	484.1	484.1	484.1	484.1	486.2	488.2	489.2	488.2
17.5°	471.9	472.9	472.9	473.9	473.9	475.0	473.9	477.0	478.0	479.0	478.0
20°	461.7	461.7	462.7	462.7	463.8	463.8	463.8	465.8	467.8	468.8	467.8
22.5°	449.5	450.5	450.5	451.5	452.5	451.5	452.5	454.6	455.6	456.6	456.6
25°	436.2	437.3	437.3	439.3	439.3	439.3	439.3	441.3	443.4	445.4	444.4
27.5°	423.0	423.0	424.0	426.0	426.0	427.1	427.1	429.1	431.1	432.2	431.1
30°	408.7	408.7	409.7	410.8	411.8	411.8	412.8	414.8	416.9	418.9	416.9
32.5°	394.4	393.4	395.5	396.5	397.5	397.5	397.5	400.6	401.6	403.6	402.6
35°	378.1	377.1	379.2	380.2	381.2	381.2	383.2	384.3	386.3	387.3	386.3
37.5°	362.8	361.8	363.9	364.9	364.9	365.9	366.9	369.0	371.0	372.0	372.0
40°	346.5	345.5	346.5	348.6	348.6	349.6	350.6	351.6	352.7	355.7	354.7
42.5°	330.2	329.2	330.2	331.3	332.3	332.3	334.3	334.3	337.4	337.4	337.4
45°	310.9	311.9	312.9	314.9	314.9	313.9	316.0	317.0	320.0	320.0	319.0
47.5°	293.5	294.6	294.6	297.6	297.6	296.6	298.6	299.7	301.7	302.7	301.7
50°	275.2	276.2	277.2	279.3	279.3	279.3	280.3	282.3	283.3	283.3	283.3
52.5°	253.8	254.8	256.8	259.9	259.9	259.9	261.9	261.9	264.0	264.0	265.0
55°	235.4	236.5	238.5	240.5	240.5	241.6	242.6	243.6	244.6	243.6	244.6
57.5°	217.1	219.1	221.2	222.2	222.2	223.2	224.2	225.3	226.3	226.3	226.3
60°	198.8	199.8	200.8	203.8	203.8	204.9	205.9	206.9	206.9	207.9	207.9
62.5°	180.4	182.4	183.5	184.5	186.5	185.5	187.5	187.5	188.6	189.6	189.6
65°	161.0	162.1	164.1	166.1	166.1	167.2	169.2	169.2	170.2	171.2	171.2
67.5°	142.7	145.8	145.8	147.8	148.8	148.8	149.8	151.9	151.9	152.9	152.9
70°	123.3	126.4	127.4	128.4	129.4	130.5	131.5	132.5	133.5	134.5	134.5
72.5°	106.0	108.0	109.1	110.1	111.1	111.1	113.1	113.1	115.2	116.2	116.2
75°	86.6	88.7	89.7	91.7	92.8	93.8	94.8	94.8	96.8	98.9	97.8
77.5°	70.3	71.3	72.4	73.4	74.4	75.4	76.4	77.5	78.5	79.5	79.5
80°	53.0	54.0	54.0	56.1	57.1	58.1	59.1	60.1	60.1	61.2	62.2
82.5°	35.7	36.7	37.7	38.7	39.8	40.8	41.8	42.8	42.8	43.8	43.8
85°	19.4	20.4	21.4	22.4	23.4	24.5	25.5	26.5	26.5	27.5	27.5
87.5°	4.1	5.1	6.1	7.1	8.2	9.2	10.2	11.2	11.2	12.2	12.2
90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
92.5°	5.1	6.1	6.1	8.2	9.2	10.2	12.2	14.3	12.2	10.2	11.2
95°	12.2	15.3	18.3	24.5	28.5	32.6	38.7	38.7	31.6	27.5	25.5
97.5°	24.5	30.6	40.8	55.0	64.2	70.3	77.5	73.4	61.2	51.0	45.9
100°	43.8	59.1	78.5	110.1	123.3	130.5	132.5	121.3	100.9	84.6	73.4
102.5°	78.5	114.2	158.0	197.7	210.0	212.0	198.8	178.4	150.8	126.4	109.1
105°	155.9	225.3	280.3	313.9	318.0	310.9	280.3	247.7	211.0	178.4	151.9
107.5°	329.2	400.6	429.1	431.1	422.0	404.6	365.9	328.2	277.2	237.5	202.8
110°	545.3	569.8	557.5	533.1	514.7	487.2	442.3	400.6	346.5	304.8	263.0





TEST NUMBER: P303234

CATALOG NUMBER: CTW-F-7525-50L840-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	705.3	693.1	660.5	616.6	591.2	566.7	519.8	473.9	415.8	372.0	327.2
115°	814.4	781.8	740.0	691.0	662.5	640.1	593.2	538.2	483.1	438.3	391.4
117.5°	892.8	849.0	806.2	760.3	733.8	708.4	660.5	606.4	548.3	504.5	456.6
120°	953.0	911.2	866.3	822.5	795.0	773.6	725.7	668.6	613.6	565.7	522.9
122.5°	1008.0	965.2	923.4	881.6	857.2	832.7	780.7	725.7	672.7	628.9	584.0
125°	1058.0	1015.2	975.4	935.7	909.2	883.7	832.7	781.8	730.8	684.9	645.2
127.5°	1103.8	1064.1	1023.3	985.6	958.1	932.6	883.7	833.7	787.9	743.0	703.3
130°	1144.6	1108.9	1069.2	1031.5	1002.9	978.5	931.6	884.7	840.9	798.1	757.3
132.5°	1182.3	1148.7	1111.0	1070.2	1042.7	1021.3	977.4	932.6	892.8	853.1	811.3
135°	1218.0	1182.3	1145.6	1105.9	1080.4	1061.0	1017.2	975.4	938.7	902.0	863.3
137.5°	1251.6	1210.8	1176.2	1137.5	1115.0	1096.7	1056.9	1018.2	983.6	945.8	911.2
140°	1277.1	1238.4	1202.7	1166.0	1147.7	1131.3	1092.6	1056.9	1025.3	990.7	957.1
142.5°	1299.5	1260.8	1229.2	1193.5	1176.2	1161.9	1126.3	1093.6	1065.1	1033.5	999.9
145°	1316.8	1281.2	1252.6	1220.0	1204.7	1190.5	1155.8	1127.3	1100.8	1069.2	1039.6
147.5°	1333.2	1300.5	1274.0	1243.5	1231.2	1217.0	1185.4	1159.9	1135.4	1107.9	1078.3
150°	1346.4	1317.9	1292.4	1264.9	1253.7	1240.4	1211.9	1188.4	1166.0	1142.6	1115.0
152.5°	1356.6	1332.1	1309.7	1284.2	1274.0	1261.8	1237.3	1217.0	1196.6	1174.2	1148.7
155°	1363.7	1344.4	1324.0	1302.6	1291.4	1282.2	1258.8	1241.4	1224.1	1202.7	1179.3
157.5°	1370.9	1353.5	1333.2	1314.8	1306.7	1296.5	1277.1	1262.8	1247.5	1229.2	1207.8
160°	1373.9	1359.7	1341.3	1326.0	1318.9	1310.7	1292.4	1281.2	1267.9	1252.6	1233.3
162.5°	1374.9	1362.7	1347.4	1335.2	1329.1	1321.9	1305.6	1296.5	1286.3	1273.0	1254.7
165°	1374.9	1364.8	1352.5	1342.3	1337.2	1331.1	1316.8	1309.7	1300.5	1290.3	1274.0
167.5°	1371.9	1363.7	1353.5	1345.4	1341.3	1335.2	1325.0	1320.9	1313.8	1305.6	1292.4
170°	1366.8	1360.7	1352.5	1347.4	1343.3	1338.3	1331.1	1328.1	1325.0	1318.9	1305.6
172.5°	1359.7	1354.6	1348.4	1345.4	1343.3	1339.3	1332.1	1333.2	1331.1	1326.0	1316.8
175°	1349.5	1346.4	1343.3	1341.3	1339.3	1336.2	1332.1	1334.2	1335.2	1333.2	1325.0
177.5°	1336.2	1335.2	1334.2	1334.2	1331.1	1331.1	1329.1	1333.2	1337.2	1337.2	1331.1
180°	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0



TEST NUMBER: P303234

CATALOG NUMBER: CTW-F-7525-50L840-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6
2.5°	510.6	508.6	507.6	507.6	507.6	506.6	506.6	507.6	509.6	512.7	509.6
5°	509.6	506.6	506.6	506.6	506.6	505.5	504.5	505.5	507.6	510.6	507.6
7.5°	505.5	503.5	502.5	502.5	502.5	501.5	501.5	501.5	503.5	506.6	503.5
10°	500.4	498.4	498.4	498.4	497.4	496.4	496.4	496.4	499.4	501.5	498.4
12.5°	494.3	492.3	492.3	491.3	491.3	490.3	489.2	490.3	493.3	494.3	492.3
15°	486.2	484.1	484.1	484.1	483.1	483.1	482.1	482.1	485.2	486.2	484.1
17.5°	477.0	475.0	473.9	475.0	473.9	472.9	472.9	472.9	475.0	476.0	472.9
20°	465.8	463.8	463.8	462.7	462.7	461.7	461.7	461.7	464.8	463.8	461.7
22.5°	454.6	452.5	452.5	451.5	451.5	450.5	449.5	449.5	453.6	450.5	449.5
25°	442.3	440.3	440.3	439.3	438.3	437.3	437.3	437.3	439.3	437.3	436.2
27.5°	430.1	428.1	428.1	427.1	426.0	424.0	424.0	424.0	427.1	424.0	424.0
30°	414.8	413.8	413.8	412.8	410.8	409.7	409.7	410.8	412.8	409.7	408.7
32.5°	400.6	398.5	398.5	398.5	396.5	395.5	395.5	396.5	397.5	394.4	393.4
35°	384.3	383.2	383.2	382.2	380.2	380.2	379.2	380.2	380.2	378.1	377.1
37.5°	369.0	367.9	366.9	366.9	364.9	364.9	364.9	365.9	364.9	362.8	361.8
40°	352.7	351.6	350.6	349.6	348.6	348.6	348.6	350.6	348.6	346.5	345.5
42.5°	336.3	335.3	334.3	333.3	332.3	332.3	332.3	333.3	331.3	330.2	329.2
45°	318.0	318.0	317.0	316.0	316.0	316.0	314.9	316.0	313.9	312.9	310.9
47.5°	300.7	300.7	299.7	299.7	298.6	298.6	298.6	298.6	296.6	296.6	294.6
50°	283.3	282.3	281.3	282.3	282.3	281.3	281.3	280.3	279.3	279.3	276.2
52.5°	264.0	265.0	261.9	263.0	264.0	261.9	261.9	260.9	260.9	258.9	256.8
55°	244.6	244.6	244.6	244.6	245.6	243.6	242.6	241.6	242.6	240.5	238.5
57.5°	226.3	226.3	226.3	226.3	227.3	225.3	224.2	225.3	224.2	222.2	221.2
60°	208.9	207.9	207.9	207.9	208.9	206.9	206.9	205.9	205.9	202.8	202.8
62.5°	190.6	189.6	190.6	189.6	190.6	189.6	187.5	188.6	187.5	185.5	184.5
65°	172.3	171.2	172.3	171.2	171.2	170.2	169.2	169.2	168.2	167.2	166.1
67.5°	153.9	152.9	152.9	152.9	153.9	151.9	152.9	150.8	149.8	149.8	147.8
70°	134.5	134.5	134.5	133.5	134.5	132.5	132.5	132.5	131.5	130.5	129.4
72.5°	117.2	116.2	116.2	115.2	116.2	115.2	114.2	114.2	113.1	113.1	112.1
75°	97.8	97.8	97.8	97.8	97.8	96.8	95.8	95.8	94.8	94.8	93.8
77.5°	79.5	79.5	79.5	79.5	79.5	79.5	77.5	77.5	77.5	77.5	75.4
80°	62.2	62.2	62.2	61.2	62.2	61.2	60.1	60.1	60.1	59.1	58.1
82.5°	44.8	44.8	44.8	43.8	44.8	43.8	43.8	42.8	41.8	41.8	39.8
85°	27.5	28.5	28.5	27.5	27.5	27.5	27.5	25.5	24.5	24.5	23.4
87.5°	12.2	12.2	12.2	11.2	11.2	11.2	10.2	10.2	9.2	9.2	9.2
90°	2.0	3.1	4.1	5.1	5.1	6.1	7.1	7.1	7.1	7.1	8.2
92.5°	16.3	21.4	22.4	24.5	23.4	24.5	24.5	23.4	24.5	22.4	23.4
95°	28.5	32.6	39.8	43.8	46.9	52.0	54.0	53.0	51.0	49.9	51.0
97.5°	44.8	48.9	52.0	53.0	55.0	62.2	69.3	74.4	78.5	80.5	82.6
100°	69.3	66.3	70.3	73.4	75.4	74.4	77.5	83.6	88.7	92.8	96.8
102.5°	99.9	91.7	88.7	90.7	93.8	99.9	99.9	98.9	100.9	104.0	110.1
105°	135.6	124.3	116.2	115.2	115.2	119.3	126.4	129.4	123.3	123.3	125.4
107.5°	179.4	161.0	148.8	144.7	143.7	141.7	146.8	154.9	160.0	159.0	152.9
110°	229.3	204.9	187.5	180.4	176.3	170.2	171.2	174.3	180.4	188.6	193.7



TEST NUMBER: P303234

CATALOG NUMBER: CTW-F-7525-50L840-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	288.4	257.9	231.4	222.2	212.0	203.8	197.7	198.8	201.8	207.9	215.1
115°	350.6	316.0	282.3	270.1	257.9	239.5	229.3	226.3	227.3	229.3	233.4
117.5°	413.8	376.1	338.4	323.1	308.8	287.4	268.1	257.9	253.8	252.8	256.8
120°	478.0	436.2	399.5	382.2	364.9	340.4	314.9	295.6	287.4	281.3	281.3
122.5°	541.2	500.4	459.7	442.3	423.0	394.4	366.9	342.5	326.2	313.9	308.8
125°	601.3	563.6	520.8	504.5	484.1	452.5	422.0	396.5	375.1	355.7	343.5
127.5°	660.5	623.8	581.0	564.7	546.3	512.7	484.1	453.6	431.1	406.7	388.3
130°	718.6	681.9	641.1	624.8	607.5	574.8	541.2	511.7	489.2	464.8	444.4
132.5°	773.6	736.9	700.2	681.9	664.5	634.0	601.3	571.8	547.3	523.9	504.5
135°	827.6	788.9	754.2	736.9	719.6	691.0	660.5	632.9	606.4	582.0	562.6
137.5°	876.5	840.9	807.2	789.9	773.6	746.1	719.6	694.1	667.6	642.1	620.7
140°	923.4	888.8	857.2	841.9	825.6	798.1	774.6	752.2	727.7	698.2	679.8
142.5°	968.3	933.6	906.1	890.8	873.5	850.0	826.6	806.2	785.8	760.3	738.9
145°	1010.1	975.4	949.9	936.7	920.4	897.9	875.5	857.2	840.9	815.4	796.0
147.5°	1049.8	1018.2	993.8	979.5	966.2	944.8	923.4	906.1	894.9	869.4	851.1
150°	1088.5	1055.9	1034.5	1021.3	1008.0	988.7	969.3	953.0	942.8	921.4	904.1
152.5°	1123.2	1093.6	1074.3	1062.0	1049.8	1030.4	1012.1	996.8	989.7	967.3	957.1
155°	1156.8	1128.3	1111.0	1100.8	1088.5	1067.1	1052.9	1037.6	1034.5	1015.2	1000.9
157.5°	1186.4	1160.9	1143.6	1133.4	1123.2	1104.8	1090.6	1078.3	1075.3	1058.0	1044.7
160°	1211.9	1189.4	1174.2	1166.0	1156.8	1138.5	1125.2	1115.0	1111.0	1098.7	1086.5
162.5°	1237.3	1215.9	1202.7	1194.5	1187.4	1170.1	1158.9	1148.7	1145.6	1137.5	1125.2
165°	1258.8	1239.4	1227.2	1221.0	1214.9	1199.6	1189.4	1180.3	1179.3	1173.1	1159.9
167.5°	1278.1	1260.8	1250.6	1245.5	1239.4	1226.1	1218.0	1209.8	1208.8	1207.8	1193.5
170°	1293.4	1279.1	1270.0	1265.9	1261.8	1249.6	1242.4	1236.3	1236.3	1237.3	1225.1
172.5°	1306.7	1294.4	1288.3	1283.2	1281.2	1270.0	1264.9	1259.8	1261.8	1263.8	1252.6
175°	1316.8	1306.7	1300.5	1298.5	1296.5	1287.3	1284.2	1282.2	1285.3	1289.3	1278.1
177.5°	1326.0	1316.8	1313.8	1311.8	1310.7	1303.6	1302.6	1300.5	1304.6	1310.7	1301.6
180°	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0



TEST NUMBER: P303234

CATALOG NUMBER: CTW-F-7525-50L840-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6
2.5°	510.6	510.6	510.6	509.6	508.6	507.6	505.5	505.5
5°	508.6	508.6	507.6	507.6	506.6	506.6	505.5	506.6
7.5°	504.5	504.5	503.5	503.5	503.5	503.5	502.5	503.5
10°	499.4	499.4	497.4	497.4	497.4	497.4	497.4	497.4
12.5°	492.3	491.3	491.3	490.3	490.3	491.3	491.3	491.3
15°	484.1	484.1	483.1	482.1	483.1	483.1	483.1	483.1
17.5°	473.9	472.9	472.9	471.9	472.9	472.9	471.9	472.9
20°	461.7	460.7	460.7	459.7	460.7	459.7	459.7	459.7
22.5°	448.5	447.4	447.4	446.4	447.4	447.4	447.4	447.4
25°	435.2	434.2	433.2	433.2	433.2	433.2	433.2	433.2
27.5°	422.0	420.9	419.9	419.9	419.9	418.9	418.9	417.9
30°	406.7	406.7	404.6	404.6	404.6	403.6	403.6	402.6
32.5°	392.4	391.4	390.4	389.3	389.3	388.3	387.3	387.3
35°	376.1	375.1	374.1	373.0	373.0	372.0	371.0	372.0
37.5°	360.8	359.8	357.8	357.8	357.8	355.7	355.7	354.7
40°	343.5	341.4	341.4	341.4	340.4	339.4	339.4	338.4
42.5°	326.2	325.1	324.1	324.1	324.1	322.1	322.1	322.1
45°	309.8	308.8	308.8	306.8	306.8	304.8	304.8	305.8
47.5°	291.5	291.5	291.5	290.5	289.5	288.4	288.4	288.4
50°	274.2	274.2	272.1	272.1	272.1	271.1	270.1	270.1
52.5°	254.8	253.8	253.8	252.8	251.8	251.8	251.8	251.8
55°	236.5	236.5	236.5	235.4	234.4	234.4	233.4	234.4
57.5°	219.1	219.1	219.1	218.1	217.1	217.1	216.1	217.1
60°	201.8	200.8	200.8	199.8	198.8	199.8	198.8	198.8
62.5°	183.5	182.4	183.5	182.4	181.4	180.4	180.4	181.4
65°	166.1	165.1	165.1	164.1	163.1	163.1	163.1	163.1
67.5°	147.8	146.8	146.8	145.8	145.8	145.8	145.8	145.8
70°	129.4	128.4	128.4	127.4	127.4	127.4	127.4	127.4
72.5°	112.1	111.1	111.1	110.1	110.1	110.1	110.1	110.1
75°	93.8	92.8	92.8	92.8	92.8	91.7	91.7	91.7
77.5°	76.4	75.4	75.4	75.4	74.4	74.4	74.4	74.4
80°	59.1	58.1	58.1	58.1	57.1	57.1	57.1	56.1
82.5°	40.8	39.8	39.8	40.8	38.7	39.8	38.7	38.7
85°	23.4	22.4	22.4	22.4	22.4	22.4	22.4	21.4
87.5°	9.2	8.2	8.2	9.2	8.2	9.2	9.2	9.2
90°	8.2	8.2	9.2	9.2	10.2	10.2	11.2	11.2
92.5°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
95°	49.9	49.9	49.9	49.9	49.9	49.9	49.9	48.9
97.5°	83.6	82.6	82.6	82.6	82.6	81.5	80.5	80.5
100°	99.9	102.9	104.0	105.0	106.0	107.0	108.0	107.0
102.5°	114.2	116.2	117.2	118.2	119.3	120.3	121.3	121.3
105°	127.4	128.4	129.4	131.5	134.5	137.6	138.6	138.6
107.5°	152.9	152.9	153.9	154.9	153.9	154.9	154.9	154.9
110°	193.7	187.5	186.5	184.5	181.4	182.4	182.4	182.4



TEST NUMBER: P303234

CATALOG NUMBER: CTW-F-7525-50L840-UNV-STD-4

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	220.2	224.2	226.3	226.3	226.3	227.3	224.2	223.2
115°	240.5	244.6	246.7	247.7	250.7	253.8	254.8	254.8
117.5°	260.9	266.0	268.1	269.1	272.1	275.2	276.2	276.2
120°	283.3	285.4	287.4	287.4	290.5	292.5	293.5	293.5
122.5°	305.8	305.8	307.8	307.8	309.8	309.8	311.9	310.9
125°	335.3	331.3	332.3	329.2	330.2	330.2	330.2	329.2
127.5°	375.1	365.9	364.9	360.8	357.8	356.7	354.7	353.7
130°	425.0	410.8	406.7	401.6	396.5	393.4	387.3	388.3
132.5°	483.1	464.8	459.7	453.6	446.4	439.3	435.2	435.2
135°	543.3	524.9	518.8	511.7	503.5	495.3	491.3	491.3
137.5°	601.3	585.0	578.9	572.8	563.6	557.5	549.4	551.4
140°	662.5	644.2	638.0	631.9	625.8	614.6	611.5	614.6
142.5°	721.6	702.3	697.2	691.0	684.9	676.8	670.7	673.7
145°	779.7	760.3	755.3	749.1	744.0	732.8	731.8	731.8
147.5°	836.8	819.5	814.4	808.3	803.2	795.0	790.9	791.9
150°	890.8	875.5	870.4	864.3	859.2	849.0	846.0	849.0
152.5°	942.8	928.5	923.4	917.3	913.2	904.1	902.0	905.1
155°	990.7	976.4	972.3	966.2	963.2	956.0	956.0	957.1
157.5°	1035.5	1024.3	1019.2	1015.2	1012.1	1003.9	1003.9	1007.0
160°	1079.4	1069.2	1066.1	1060.0	1056.9	1050.8	1049.8	1048.8
162.5°	1121.2	1112.0	1107.9	1103.8	1100.8	1095.7	1093.6	1093.6
165°	1154.8	1148.7	1144.6	1142.6	1140.5	1136.4	1134.4	1134.4
167.5°	1191.5	1183.3	1180.3	1176.2	1175.2	1172.1	1171.1	1174.2
170°	1221.0	1217.0	1212.9	1209.8	1207.8	1205.8	1204.7	1207.8
172.5°	1250.6	1246.5	1244.5	1241.4	1240.4	1239.4	1239.4	1242.4
175°	1278.1	1275.1	1272.0	1268.9	1268.9	1266.9	1267.9	1270.0
177.5°	1302.6	1300.5	1299.5	1296.5	1294.4	1292.4	1291.4	1291.4
180°	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0

(END OF REPORT)