

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: METALUX

Report Number: P571643

Luminaire Tested: **4ST2L4040**

Issue Date: 3/18/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P571643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P579285)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ST2L4040  
Description: 4 FOOT ST2 STIPLIGHT WITH 4000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

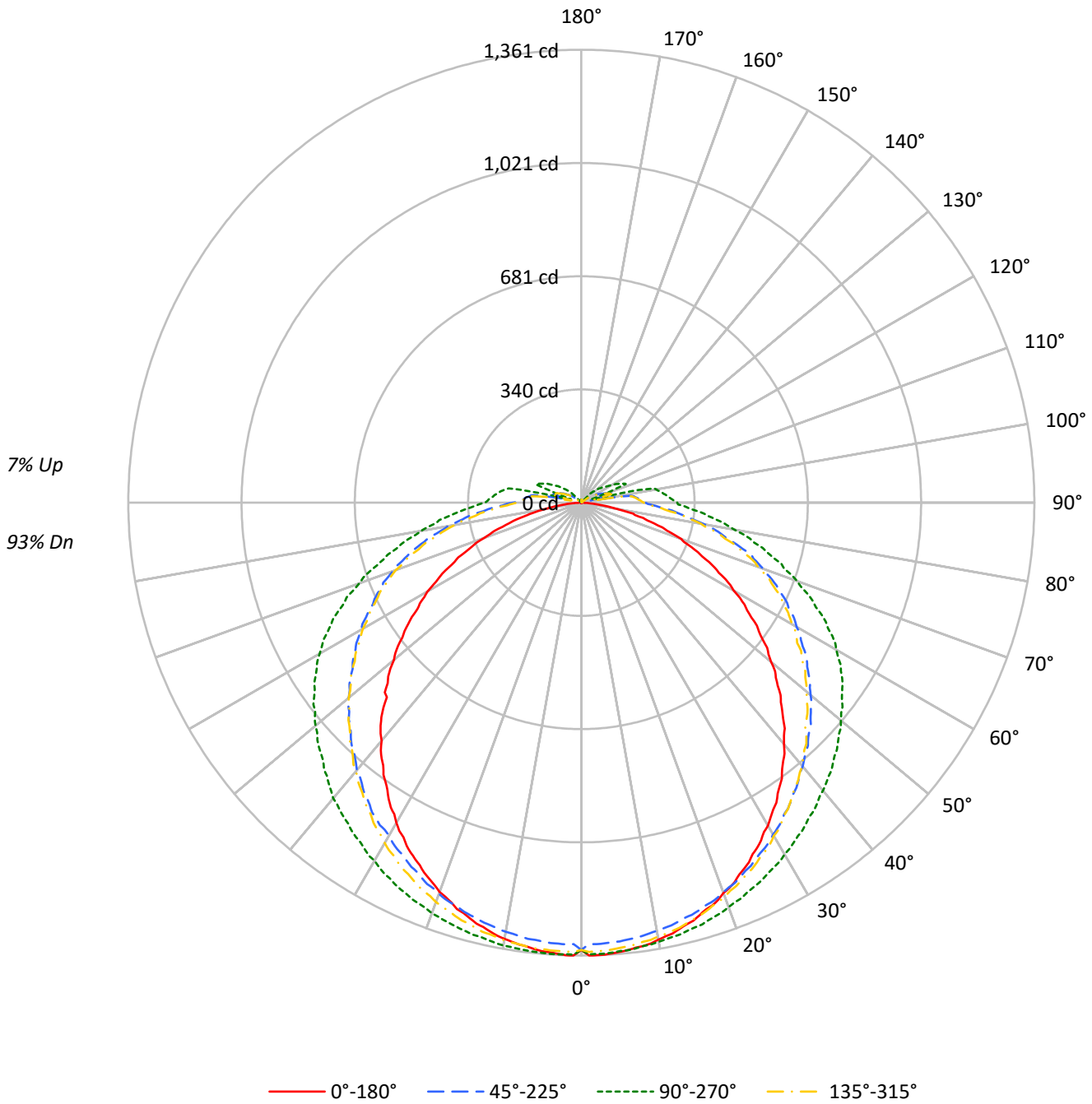
Lumens per Lamp: N/A  
Luminaire Lumens: 4927.0 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.15' x L: 4' x H: 0.11')  
CIE Type: Direct

Input Watts (W): 41.7  
Input Voltage (V): NR  
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: P571643  
CATALOG NUMBER: 4ST2L4040

### 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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	105	99	94	90	102	96	92	88	91	87	84	86	83	80	81	79	76	74
2	95	85	78	71	91	83	76	70	78	72	67	74	69	65	70	66	62	60
3	86	74	65	58	83	72	64	57	68	61	55	64	58	53	61	56	52	49
4	78	65	56	49	75	63	55	48	60	52	46	57	50	45	54	48	44	41
5	72	58	48	41	69	56	48	41	53	46	40	51	44	39	48	42	38	35
6	66	52	43	36	64	51	42	35	48	40	35	46	39	34	44	38	33	31
7	61	47	38	31	59	46	37	31	44	36	30	42	35	30	40	34	29	27
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	24
9	53	39	31	25	51	38	30	25	37	29	24	35	28	24	34	28	23	21
10	50	36	28	22	48	35	28	22	34	27	22	32	26	21	31	25	21	19

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

	0°	90°	180°	270°
0°	24804	24804	24804	24804
5°	25039	23520	25008	23616
10°	24862	22198	24819	22384
15°	24659	21053	24530	21258
20°	24281	19993	24203	20297
25°	23968	19069	23755	19398
30°	23517	18203	23306	18528
35°	22963	17441	22669	17832
40°	22304	16760	22001	17208
45°	21543	16106	21004	16418
50°	20701	15493	20437	15877
55°	19934	14950	19677	15271
60°	18627	14264	18821	14641
65°	17484	13412	17344	13844
70°	16049	12243	15657	12600
75°	13339	10916	13662	11370
80°	10004	9515	10050	9972
85°	5691	8229	5982	8550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.3	2.6
10°-20°	366.2	7.4
20°-30°	561.1	11.4
30°-40°	691.5	14.0
40°-50°	746.6	15.2
50°-60°	727.3	14.8
60°-70°	636.9	12.9
70°-80°	473.5	9.6
80°-90°	274.6	5.6
90°-100°	157.7	3.2
100°-110°	58.0	1.2
110°-120°	59.8	1.2
120°-130°	31.6	0.6
130°-140°	8.5	0.2
140°-150°	1.8	0.0
150°-160°	2.0	0.0
160°-170°	1.8	0.0
170°-180°	0.8	0.0
0°-30°	1054.6	21.4
0°-40°	1746.1	35.4
0°-60°	3220.0	65.4
0°-90°	4605.0	93.5
90°-120°	275.5	5.6
90°-150°	317.4	6.4
90°-180°	322.0	6.5
0°-180°	4927.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1344	1344	1344	1344	1344	
5°	1355	1352	1353	1358	1355	129
15°	1300	1321	1293	1334	1300	366
25°	1192	1261	1182	1283	1192	548
35°	1039	1177	1025	1203	1039	650
45°	848	1076	827	1096	848	655
55°	644	958	635	978	644	572
65°	424	796	420	822	424	418
75°	206	578	211	602	206	223
85°	35	369	37	383	35	44
90°	2	288	3	289	2	2
95°	1	256	2	262	1	1
105°	1	39	1	39	1	1
115°	0	137	2	134	0	1
125°	0	82	1	87	0	1
135°	1	39	2	35	1	1
145°	3	3	3	2	3	2
155°	4	4	4	4	4	2
165°	7	6	6	6	7	2
175°	9	9	8	8	9	1
180°	9	9	9	9	9	



TEST NUMBER: P571643  
 CATALOG NUMBER: 4ST2L4040

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2
1°	1361.1	1296.8	1327.0	1364.6	1357.8	1334.9	1350.5	1349.4	1361.1	1296.8	1327.0
2°	1360.6	1296.2	1327.6	1363.9	1356.6	1333.2	1348.8	1348.8	1360.6	1296.2	1328.2
3°	1360.1	1295.7	1326.4	1363.4	1357.3	1331.5	1348.3	1347.8	1357.8	1295.2	1327.0
4°	1357.3	1294.0	1323.7	1362.3	1355.6	1330.9	1346.0	1345.5	1354.4	1292.9	1326.4
5°	1355.0	1291.7	1323.7	1360.6	1352.3	1329.2	1342.7	1342.2	1353.3	1290.7	1324.2
6°	1351.6	1290.1	1320.3	1357.8	1352.3	1325.4	1341.0	1340.5	1348.8	1289.5	1321.4
7°	1347.2	1286.2	1318.1	1355.6	1349.4	1324.2	1337.7	1336.5	1343.8	1285.1	1320.3
8°	1345.0	1282.8	1315.3	1353.3	1345.0	1320.3	1332.7	1330.4	1341.0	1280.1	1316.4
9°	1340.5	1278.9	1310.3	1349.4	1344.3	1316.4	1330.4	1326.4	1336.0	1277.2	1311.9
10°	1333.2	1273.3	1306.8	1347.2	1339.9	1314.1	1324.8	1323.1	1330.9	1271.6	1309.6
11°	1327.6	1269.9	1302.4	1343.8	1336.0	1310.3	1320.9	1315.8	1325.9	1265.5	1304.6
12°	1323.1	1262.7	1299.0	1338.8	1333.2	1305.2	1315.8	1307.5	1317.5	1257.0	1299.6
13°	1314.1	1254.8	1292.9	1336.0	1330.4	1301.3	1311.3	1304.1	1309.1	1253.2	1295.7
14°	1305.8	1250.9	1285.6	1329.9	1324.8	1296.8	1303.5	1295.2	1303.5	1249.2	1289.0
15°	1300.2	1242.5	1282.2	1323.1	1321.4	1291.2	1296.8	1285.6	1293.4	1240.9	1283.9
16°	1289.5	1237.4	1275.6	1319.2	1318.1	1285.6	1291.2	1280.1	1283.4	1231.3	1278.9
17°	1278.9	1230.1	1267.1	1312.5	1310.8	1281.1	1283.4	1271.1	1277.2	1225.1	1270.5
18°	1272.8	1220.7	1262.7	1304.6	1306.3	1273.8	1274.4	1259.3	1263.8	1217.8	1264.9
19°	1262.7	1211.7	1256.0	1303.0	1300.7	1268.8	1268.8	1252.5	1253.2	1206.7	1259.3
20°	1248.7	1205.0	1245.9	1294.5	1293.4	1262.1	1259.3	1243.6	1244.7	1197.2	1250.9
21°	1240.3	1193.8	1238.1	1287.9	1286.7	1254.8	1249.2	1229.1	1230.8	1190.4	1241.4
22°	1229.6	1183.2	1231.9	1282.8	1282.2	1249.2	1242.5	1220.7	1219.0	1180.3	1236.4
23°	1214.0	1176.0	1221.8	1273.3	1273.3	1240.9	1231.3	1210.0	1208.4	1167.0	1225.8
24°	1203.9	1162.5	1211.2	1265.5	1266.6	1233.6	1221.8	1196.6	1192.7	1159.7	1214.5
25°	1192.1	1150.7	1204.4	1259.8	1261.0	1226.8	1214.0	1188.8	1181.5	1147.4	1207.8
26°	1174.8	1142.9	1192.7	1248.7	1253.7	1217.3	1203.4	1172.5	1169.7	1132.8	1197.2
27°	1163.6	1128.3	1182.6	1239.7	1244.7	1213.4	1190.4	1159.1	1156.9	1124.4	1186.0
28°	1149.6	1115.4	1174.8	1233.6	1238.6	1205.6	1182.6	1149.1	1138.4	1112.1	1179.3
29°	1131.7	1106.5	1165.2	1221.8	1231.9	1198.3	1171.5	1132.3	1127.8	1096.5	1168.7
30°	1121.0	1093.6	1151.9	1212.3	1220.7	1186.6	1156.3	1118.2	1110.9	1086.4	1155.7
31°	1103.8	1077.9	1142.9	1199.9	1214.0	1180.3	1148.5	1107.1	1092.0	1073.4	1146.8
32°	1088.0	1067.3	1132.8	1192.7	1204.4	1170.3	1134.0	1088.5	1080.2	1057.3	1142.3
33°	1075.7	1057.3	1118.2	1183.8	1194.4	1159.1	1119.4	1074.6	1062.8	1050.5	1131.7
34°	1054.5	1036.5	1109.3	1174.2	1188.3	1152.4	1110.4	1061.8	1041.5	1032.1	1123.3
35°	1038.7	1025.4	1097.0	1164.2	1177.0	1141.8	1096.5	1042.2	1025.4	1017.5	1108.8
36°	1024.8	1010.8	1082.4	1154.1	1165.9	1129.5	1079.7	1026.4	1011.3	1006.9	1095.8
37°	1001.8	991.7	1072.9	1145.6	1159.7	1122.7	1070.7	1009.7	988.9	988.4	1086.9
38°	985.1	980.6	1059.5	1135.0	1149.6	1112.6	1057.8	997.4	975.0	973.3	1070.7
39°	970.5	964.3	1043.8	1121.6	1136.7	1102.6	1043.2	976.1	957.7	962.1	1058.3
40°	947.0	944.2	1034.4	1114.4	1129.5	1095.3	1033.2	959.3	934.1	941.9	1048.8
41°	927.5	933.0	1020.3	1101.5	1119.9	1081.9	1015.8	945.9	919.5	925.7	1032.6
42°	913.4	916.7	1008.5	1087.5	1108.8	1070.7	1000.7	923.5	901.1	914.0	1019.1
43°	888.8	903.9	997.9	1079.1	1101.5	1062.3	991.2	906.7	881.0	893.8	1009.1
44°	868.1	887.7	981.1	1066.8	1088.0	1047.2	972.8	892.8	855.8	878.2	996.2



TEST NUMBER: P571643  
 CATALOG NUMBER: 4ST2L4040

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	847.9	866.4	969.3	1051.7	1075.7	1034.9	950.9	866.4	826.7	856.3	979.4
46°	832.2	854.1	958.2	1042.7	1067.9	1020.3	940.3	853.6	821.1	842.8	964.9
47°	806.5	835.7	941.4	1030.4	1053.8	1011.3	929.1	839.5	795.9	826.7	955.4
48°	786.4	814.9	928.0	1015.3	1041.0	999.0	914.5	816.6	780.7	813.8	938.1
49°	771.3	802.0	916.2	1003.0	1032.6	990.1	895.5	798.1	760.6	792.0	928.0
50°	744.4	783.6	898.9	994.0	1017.5	974.4	883.8	784.7	734.9	774.6	912.9
51°	723.6	761.8	883.2	980.0	1004.7	962.1	869.7	765.6	719.2	757.8	895.5
52°	708.0	744.4	872.5	964.3	995.7	951.4	853.6	742.7	699.6	743.9	883.8
53°	681.1	729.8	854.6	954.2	980.0	940.3	842.3	730.4	672.8	722.0	868.7
54°	659.4	708.0	838.4	940.3	968.3	924.0	823.3	710.8	656.5	709.2	849.6
55°	643.6	694.1	827.7	923.5	957.7	913.4	807.6	688.4	635.3	690.6	838.4
56°	616.2	676.7	812.6	914.0	945.3	901.1	796.5	674.5	613.9	668.8	824.4
57°	593.8	658.2	793.0	899.4	929.6	884.8	773.5	656.5	587.1	641.4	808.8
58°	577.6	635.8	777.9	882.0	918.5	870.9	761.8	633.6	572.0	637.0	797.5
59°	556.3	622.4	766.8	870.9	899.9	860.8	750.5	620.2	550.8	615.1	779.1
60°	528.4	603.3	746.7	856.3	883.8	842.3	731.6	602.3	533.9	597.8	762.8
61°	512.1	590.0	734.3	844.0	872.5	828.4	716.5	579.2	507.6	584.3	751.7
62°	490.2	568.6	719.2	822.7	854.1	816.1	704.1	565.9	485.8	562.5	732.6
63°	462.8	550.2	699.6	806.0	831.7	794.7	684.5	549.0	469.6	544.0	717.0
64°	446.1	536.7	687.9	782.4	817.1	777.9	671.0	526.7	442.1	531.2	696.9
65°	423.7	514.9	671.0	768.4	796.5	764.0	658.7	514.3	420.3	512.6	685.6
66°	396.8	497.0	649.8	749.4	771.3	744.9	637.5	495.3	404.7	490.9	670.5
67°	380.0	483.6	637.0	728.1	755.5	720.8	620.7	478.0	376.7	478.0	649.8
68°	358.2	461.7	618.4	712.5	734.3	705.7	608.4	455.5	355.4	460.7	642.0
69°	330.8	444.9	596.1	686.8	706.9	685.1	584.9	442.1	338.6	438.2	620.7
70°	319.6	431.5	582.0	664.4	690.1	658.7	565.3	424.8	311.8	425.3	602.3
71°	292.2	410.2	562.5	648.1	668.3	642.5	551.8	411.4	290.5	408.6	588.8
72°	270.3	393.4	544.0	620.2	639.8	620.2	531.7	390.1	274.2	387.3	565.3
73°	254.1	381.2	533.9	597.2	628.0	591.0	507.6	373.3	247.4	375.0	546.3
74°	227.3	363.8	503.2	580.4	600.0	574.2	492.0	361.0	226.6	358.2	531.7
75°	206.0	343.6	481.9	551.8	577.6	552.4	470.7	341.4	211.0	338.0	507.6
76°	190.9	326.9	453.9	530.0	561.4	524.4	444.4	324.6	191.4	321.2	486.4
77°	165.1	313.4	437.6	513.3	533.4	508.2	428.1	311.8	165.7	308.9	470.7
78°	160.0	290.5	420.9	484.1	517.1	485.8	406.9	290.5	151.1	292.7	444.4
79°	131.5	272.1	400.2	462.3	493.7	464.5	380.0	272.1	132.6	279.2	422.5
80°	108.6	257.5	374.5	446.6	466.8	448.4	364.9	253.5	109.1	256.8	406.9
81°	91.3	232.9	351.5	424.8	445.5	422.0	343.1	239.5	96.3	239.5	380.6
82°	78.4	213.8	324.1	397.9	430.4	401.3	316.2	215.5	80.0	225.6	360.4
83°	62.7	199.2	308.4	382.3	404.1	386.8	305.6	200.9	60.4	202.0	344.2
84°	44.8	175.2	288.2	367.2	383.3	362.1	279.9	181.9	49.8	183.6	323.5
85°	35.2	161.7	273.7	345.9	368.9	340.8	255.2	159.5	37.0	169.0	296.6
86°	21.9	143.8	249.0	321.2	344.2	326.3	241.7	141.1	23.5	146.6	280.9
87°	13.4	122.5	230.1	301.6	324.6	301.1	222.1	127.0	18.4	129.8	260.8
88°	9.0	110.9	216.0	278.7	310.6	283.7	204.3	106.9	9.5	117.0	237.4
89°	4.0	96.3	199.8	267.6	290.5	270.3	194.2	92.9	5.0	97.9	223.9



TEST NUMBER: P571643  
 CATALOG NUMBER: 4ST2L4040

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	2.2	90.7	191.9	261.9	288.2	255.8	186.9	87.3	3.3	86.2	205.4
91°	1.7	86.8	187.5	257.5	279.9	251.8	181.9	84.0	2.8	82.8	186.4
92°	2.2	81.2	183.6	250.7	273.7	246.8	178.0	80.0	1.7	76.7	181.3
93°	2.2	77.2	175.8	245.2	266.4	243.5	172.3	77.2	2.2	73.9	175.8
94°	1.7	74.4	171.8	239.0	261.9	236.7	167.3	72.2	2.2	70.5	171.8
95°	1.1	51.0	167.3	235.1	256.3	232.9	164.5	47.6	1.7	57.6	169.0
96°	1.7	30.2	161.7	229.4	249.7	227.8	158.4	35.8	1.7	35.2	162.3
97°	1.7	26.9	158.9	222.8	245.2	221.6	153.4	29.7	1.7	31.4	156.7
98°	1.7	28.5	150.0	218.8	240.1	217.8	144.9	34.2	1.7	31.9	153.9
99°	1.1	40.8	104.6	212.1	232.9	212.7	100.8	40.8	1.7	39.7	142.1
100°	1.1	40.3	66.6	206.0	228.4	205.4	48.1	39.2	1.1	38.7	110.9
101°	1.1	38.0	33.0	186.4	222.8	198.7	38.7	37.0	1.1	36.4	80.5
102°	1.1	35.8	31.4	128.2	191.9	164.5	34.7	34.7	1.7	34.7	44.2
103°	1.1	33.0	28.5	72.2	156.7	104.1	32.5	32.5	1.7	33.0	40.3
104°	1.1	31.4	30.2	33.0	90.1	50.3	34.7	30.2	1.7	31.4	38.7
105°	1.1	28.5	54.8	27.4	38.7	34.2	63.8	29.1	1.1	28.5	45.3
106°	1.1	27.4	80.0	26.3	34.2	33.0	93.5	26.9	1.1	26.9	68.3
107°	0.5	25.2	97.4	25.2	32.5	30.7	91.8	24.6	1.1	24.1	87.8
108°	1.1	22.4	92.9	30.7	31.9	29.1	89.0	23.5	1.1	22.4	90.7
109°	0.5	20.7	90.1	52.1	31.4	40.3	85.0	21.3	1.1	20.1	86.8
110°	1.1	19.1	84.5	88.5	52.1	79.5	81.7	18.4	1.1	17.4	84.0
111°	1.1	15.1	78.9	131.0	86.8	107.4	75.0	16.8	1.1	11.2	78.9
112°	1.1	10.6	75.0	129.8	115.9	128.2	69.9	10.1	0.5	7.3	76.2
113°	1.1	5.0	69.4	124.8	144.9	125.3	66.6	4.5	1.1	4.5	73.4
114°	1.1	3.3	65.4	120.3	139.9	119.2	62.1	4.0	1.1	4.0	70.5
115°	0.5	3.3	62.7	116.4	136.6	114.2	58.8	3.3	1.7	3.3	66.1
116°	0.5	2.8	59.9	109.7	131.0	107.4	57.6	2.8	1.1	2.8	63.2
117°	0.5	1.7	56.0	103.6	123.7	102.9	54.8	2.2	1.1	1.7	60.4
118°	1.1	1.7	54.3	98.5	119.7	97.4	52.1	1.7	1.1	1.7	55.4
119°	0.5	1.7	51.0	91.8	112.5	92.9	49.3	1.7	1.1	1.7	53.8
120°	0.5	1.7	46.5	87.8	105.2	87.8	47.0	1.7	1.1	1.7	49.3
121°	1.1	1.7	43.7	82.3	100.1	81.7	43.1	1.7	1.1	1.7	45.8
122°	1.1	1.1	41.5	79.5	94.6	78.4	40.3	1.7	1.1	1.7	43.1
123°	0.5	1.1	37.0	75.5	89.0	75.5	37.5	0.5	1.1	1.7	39.2
124°	0.5	1.1	34.2	71.1	86.2	71.1	33.0	1.7	1.7	1.7	35.2
125°	0.5	1.1	31.9	68.3	82.3	67.7	30.2	1.1	1.1	1.1	33.6
126°	1.1	0.5	23.5	64.4	76.7	64.9	22.9	1.7	1.1	1.1	25.7
127°	1.1	1.7	14.0	60.4	74.4	61.1	11.2	1.1	1.1	1.1	16.8
128°	0.5	1.1	7.8	57.6	69.4	57.1	7.8	1.1	1.1	1.1	10.6
129°	1.1	1.1	4.5	52.6	67.2	54.8	5.0	1.1	1.1	1.7	5.6
130°	1.1	1.1	4.0	48.1	62.1	50.3	4.0	1.1	1.1	1.7	5.6
131°	1.1	1.7	4.0	45.3	57.6	45.8	4.0	1.7	1.7	1.1	4.5
132°	1.1	1.1	2.8	40.3	51.5	43.1	3.3	1.7	1.7	1.7	3.3
133°	1.1	1.1	2.2	36.4	50.3	39.2	2.8	2.2	1.7	1.7	2.8
134°	1.1	1.7	1.7	26.9	44.8	28.5	2.2	1.1	1.1	1.7	2.8





TEST NUMBER: P571643  
 CATALOG NUMBER: 4ST2L4040

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.1	1.1	1.7	20.7	39.2	20.7	1.7	1.7	1.7	1.7	2.2
136°	1.7	1.1	2.2	7.3	31.4	10.1	1.7	1.7	1.1	1.7	2.2
137°	1.1	1.1	1.7	5.0	15.6	6.1	1.7	1.7	1.7	1.7	2.2
138°	1.7	1.7	1.7	4.5	8.4	5.6	1.7	1.7	1.7	1.7	2.2
139°	1.7	1.7	1.7	4.5	6.1	4.5	2.2	1.7	1.7	2.2	1.7
140°	1.7	1.7	2.2	3.3	5.0	4.0	2.8	2.2	2.2	1.7	2.2
141°	1.7	2.2	2.2	2.8	4.5	3.3	2.2	2.2	2.2	2.8	2.8
142°	2.2	2.2	2.2	2.8	4.5	3.3	2.2	2.2	1.7	2.8	2.8
143°	2.2	2.2	2.2	2.2	3.3	2.8	2.2	2.2	2.2	2.2	2.8
144°	2.2	2.8	2.8	2.8	2.8	2.8	2.2	2.2	2.8	2.8	2.8
145°	2.8	2.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
146°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.3	3.3	2.8
147°	2.8	2.8	2.8	2.8	3.3	2.8	3.3	2.8	2.8	2.8	2.8
148°	3.3	3.3	3.3	3.3	3.3	2.8	2.8	2.8	3.3	2.8	2.8
149°	3.3	3.3	4.0	4.0	4.0	3.3	2.8	2.8	3.3	3.3	3.3
150°	4.0	4.0	3.3	3.3	3.3	3.3	3.3	4.0	3.3	3.3	3.3
151°	4.0	4.0	3.3	4.0	4.0	3.3	4.0	4.0	4.0	3.3	3.3
152°	3.3	4.0	4.0	4.0	4.0	3.3	4.0	4.0	4.0	4.0	4.0
153°	4.5	4.5	4.0	4.0	4.5	4.0	4.0	3.3	4.0	4.0	4.0
154°	4.5	4.5	4.5	4.0	4.5	4.0	3.3	4.0	4.0	4.0	4.5
155°	4.5	5.0	5.0	4.0	4.5	4.0	4.0	4.5	4.5	4.5	4.0
156°	4.5	4.5	5.0	5.0	4.5	4.5	4.0	4.5	4.5	4.5	4.0
157°	5.0	5.0	5.0	5.0	5.0	4.0	4.5	5.0	4.5	4.5	4.5
158°	5.0	5.6	5.0	5.0	5.6	4.5	5.0	4.5	5.0	5.0	4.5
159°	5.6	5.6	5.0	5.6	5.6	5.0	5.0	5.0	5.0	5.0	5.0
160°	5.6	5.6	6.1	5.0	5.6	4.5	5.0	5.0	5.6	5.0	5.0
161°	5.6	6.1	5.6	6.1	5.6	5.0	5.6	5.0	5.6	5.6	5.0
162°	6.1	6.1	6.1	6.1	6.1	5.0	5.6	5.0	5.6	5.0	5.0
163°	6.1	6.1	6.7	6.1	6.1	5.6	5.6	6.1	5.6	5.6	5.6
164°	6.7	6.7	7.3	6.7	6.7	6.1	6.1	5.6	6.1	6.1	5.0
165°	7.3	6.7	7.3	7.3	6.1	5.6	6.1	6.1	6.1	6.1	6.1
166°	6.7	7.3	7.3	7.3	6.7	6.1	6.1	6.7	6.1	6.1	5.6
167°	7.3	7.3	7.8	7.3	7.3	6.1	7.3	6.7	6.1	6.7	6.7
168°	7.3	7.3	7.8	7.8	7.3	6.1	7.3	6.7	6.7	6.7	6.7
169°	7.8	8.4	8.4	8.4	7.8	6.7	6.7	7.3	7.3	6.7	6.7
170°	7.8	7.8	9.0	8.4	7.8	7.3	7.8	7.3	7.8	7.3	6.7
171°	8.4	8.4	9.0	8.4	8.4	7.8	7.3	7.3	7.3	7.8	7.3
172°	8.4	7.8	8.4	8.4	7.8	8.4	7.8	7.8	7.3	7.3	7.3
173°	9.0	9.0	9.0	9.0	7.8	8.4	7.8	8.4	7.8	7.8	7.8
174°	8.4	9.0	9.0	9.0	8.4	8.4	8.4	7.8	7.8	7.8	7.8
175°	9.0	9.0	9.0	9.0	9.0	8.4	8.4	8.4	7.8	8.4	8.4
176°	8.4	9.0	8.4	8.4	8.4	8.4	8.4	8.4	7.8	8.4	7.8
177°	9.0	9.0	9.0	9.0	9.0	8.4	7.8	7.8	8.4	8.4	7.8
178°	8.4	8.4	9.0	9.0	9.0	7.8	8.4	8.4	8.4	8.4	7.8
179°	9.0	9.0	8.4	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.4



TEST NUMBER: P571643  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8



TEST NUMBER: P571643  
 CATALOG NUMBER: 4ST2L4040

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2
1°	1365.1	1358.9	1334.9	1350.0	1350.5	1361.1
2°	1366.2	1357.8	1334.9	1350.0	1350.5	1360.6
3°	1365.1	1359.5	1335.4	1348.8	1350.0	1360.1
4°	1365.1	1358.9	1334.3	1348.8	1349.4	1357.3
5°	1364.6	1357.8	1333.2	1346.6	1346.6	1355.0
6°	1362.3	1357.3	1333.2	1346.6	1343.8	1351.6
7°	1360.1	1356.1	1330.9	1343.8	1341.5	1347.2
8°	1357.3	1353.9	1329.2	1340.5	1337.1	1345.0
9°	1356.1	1352.3	1326.4	1338.2	1332.0	1340.5
10°	1352.3	1351.1	1325.4	1335.4	1329.9	1333.2
11°	1348.3	1348.3	1321.9	1330.4	1324.2	1327.6
12°	1346.0	1343.8	1317.5	1325.9	1316.9	1323.1
13°	1342.2	1339.9	1315.8	1323.1	1311.9	1314.1
14°	1337.1	1338.8	1310.8	1316.9	1306.3	1305.8
15°	1333.7	1334.3	1305.8	1309.6	1297.9	1300.2
16°	1329.2	1330.9	1303.0	1305.8	1291.2	1289.5
17°	1324.8	1325.9	1298.5	1298.5	1283.9	1278.9
18°	1319.8	1321.9	1291.7	1290.1	1274.9	1272.8
19°	1313.1	1316.9	1290.1	1283.4	1268.8	1262.7
20°	1306.3	1313.1	1282.8	1277.2	1257.0	1248.7
21°	1299.0	1305.2	1276.6	1267.1	1246.4	1240.3
22°	1295.2	1300.7	1272.8	1259.8	1238.6	1229.6
23°	1286.2	1296.2	1263.8	1253.2	1225.1	1214.0
24°	1276.6	1288.4	1256.0	1241.9	1214.5	1203.9
25°	1271.1	1282.8	1252.0	1231.3	1205.0	1192.1
26°	1263.2	1276.1	1242.5	1224.0	1188.8	1174.8
27°	1252.5	1267.1	1233.6	1213.4	1177.6	1163.6
28°	1247.0	1262.1	1227.4	1201.1	1167.5	1149.6
29°	1239.1	1253.2	1218.5	1193.3	1150.7	1131.7
30°	1229.1	1242.5	1208.9	1181.5	1137.3	1121.0
31°	1223.5	1238.1	1198.3	1167.5	1126.1	1103.8
32°	1211.7	1228.5	1191.1	1158.0	1110.9	1088.0
33°	1201.7	1217.8	1183.2	1146.8	1100.9	1075.7
34°	1194.4	1211.7	1172.5	1130.5	1080.7	1054.5
35°	1181.5	1203.4	1166.4	1121.0	1064.6	1038.7
36°	1170.9	1192.1	1153.6	1108.8	1044.4	1024.8
37°	1163.0	1184.8	1142.9	1092.5	1032.1	1001.8
38°	1150.1	1177.0	1136.7	1081.9	1014.8	985.1
39°	1139.5	1166.4	1129.5	1068.4	992.9	970.5
40°	1130.5	1159.7	1113.2	1053.3	980.0	947.0
41°	1117.1	1146.3	1105.4	1043.2	962.7	927.5
42°	1106.5	1135.0	1091.4	1025.9	940.8	913.4
43°	1097.5	1121.6	1081.9	1010.8	926.8	888.8
44°	1081.9	1113.2	1071.2	1000.7	910.1	868.1



TEST NUMBER: P571643  
 CATALOG NUMBER: 4ST2L4040

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1070.7	1096.5	1056.7	982.3	888.3	847.9
46°	1061.8	1086.9	1045.5	968.3	873.7	832.2
47°	1048.3	1077.9	1036.0	957.0	855.8	806.5
48°	1032.6	1066.8	1023.6	938.6	835.7	786.4
49°	1023.6	1051.7	1007.5	924.6	812.6	771.3
50°	1008.5	1042.7	998.5	912.9	799.2	744.4
51°	994.0	1030.4	985.1	893.3	780.2	723.6
52°	984.4	1014.8	968.8	878.2	756.7	708.0
53°	969.3	1008.0	959.9	866.4	741.6	681.1
54°	953.2	992.4	945.9	850.1	723.6	659.4
55°	942.6	978.3	929.1	831.2	700.2	643.6
56°	929.6	968.3	919.5	819.4	685.6	616.2
57°	911.7	950.9	906.1	803.7	667.2	593.8
58°	900.6	937.5	888.8	784.1	644.2	577.6
59°	887.7	925.7	882.0	772.4	629.7	556.3
60°	872.0	907.2	864.7	757.3	611.2	528.4
61°	861.9	891.6	849.1	737.7	597.8	512.1
62°	840.1	877.5	838.4	722.0	575.4	490.2
63°	822.7	855.8	818.3	710.8	555.3	462.8
64°	801.0	836.7	801.0	690.6	537.9	446.1
65°	786.4	822.2	787.5	675.0	523.9	423.7
66°	767.3	798.1	765.1	662.7	501.5	396.8
67°	742.7	775.1	745.5	645.9	484.1	380.0
68°	727.1	760.6	730.9	624.0	470.1	358.2
69°	706.9	733.8	704.7	610.6	447.7	330.8
70°	679.5	710.2	683.4	592.7	430.4	319.6
71°	662.1	692.9	667.2	568.6	416.4	292.2
72°	640.3	669.4	645.9	554.1	395.1	270.3
73°	617.4	640.8	616.7	535.0	376.7	254.1
74°	600.6	618.4	599.4	509.3	364.4	227.3
75°	572.0	601.6	577.0	493.7	343.1	206.0
76°	550.2	573.1	548.5	472.9	325.7	190.9
77°	533.4	555.8	531.7	445.5	313.4	165.1
78°	504.8	533.4	509.3	429.3	296.6	160.0
79°	481.9	506.5	481.9	407.4	274.8	131.5
80°	465.1	489.2	465.7	385.6	260.3	108.6
81°	437.6	467.3	443.9	369.4	242.4	91.3
82°	415.8	440.4	416.4	342.0	218.3	78.4
83°	400.2	429.8	400.7	320.7	202.7	62.7
84°	373.9	403.6	380.6	305.0	184.1	44.8
85°	353.7	383.3	361.0	278.2	169.6	35.2
86°	338.6	363.2	336.3	263.1	146.6	21.9
87°	319.0	343.6	322.4	244.0	128.7	13.4
88°	295.0	323.5	303.3	222.1	108.6	9.0
89°	280.9	308.9	288.8	209.3	97.9	4.0



TEST NUMBER: P571643  
 CATALOG NUMBER: 4ST2L4040

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	263.1	289.4	265.3	191.9	86.8	2.2
91°	253.0	282.7	255.2	183.0	83.4	1.7
92°	249.0	278.7	248.5	178.0	77.8	2.2
93°	240.7	270.9	244.6	174.6	74.4	2.2
94°	236.2	265.8	238.4	168.5	66.1	1.7
95°	232.9	261.9	231.7	163.4	48.1	1.1
96°	228.4	255.2	227.8	160.0	29.1	1.7
97°	223.3	249.0	222.8	155.6	26.3	1.7
98°	219.4	244.6	215.5	137.6	31.9	1.7
99°	212.7	237.4	212.1	110.2	38.7	1.1
100°	202.7	231.1	206.0	63.2	36.4	1.1
101°	181.9	222.8	181.9	35.2	35.8	1.1
102°	113.6	187.5	149.4	33.0	34.2	1.1
103°	74.4	123.2	84.0	30.7	31.9	1.1
104°	44.8	81.2	35.8	45.3	30.2	1.1
105°	37.0	38.7	31.4	66.1	28.0	1.1
106°	37.0	35.2	29.1	94.6	28.0	1.1
107°	35.2	34.2	27.4	92.9	24.6	0.5
108°	34.2	33.0	31.4	91.8	21.3	1.1
109°	44.8	44.2	63.8	85.0	19.6	0.5
110°	73.4	67.7	100.1	81.2	16.8	1.1
111°	108.0	105.2	124.8	78.9	9.5	1.1
112°	128.7	146.6	126.0	75.0	6.1	1.1
113°	124.8	146.6	120.9	71.1	4.5	1.1
114°	120.9	141.1	117.0	68.3	2.8	1.1
115°	115.9	134.3	113.1	63.8	2.8	0.5
116°	112.5	131.0	107.4	60.4	2.2	0.5
117°	106.9	124.8	104.1	57.6	2.2	0.5
118°	102.9	120.3	100.1	52.6	1.7	1.1
119°	99.1	117.0	95.1	49.8	1.7	0.5
120°	94.6	110.9	91.3	47.6	1.7	0.5
121°	90.1	105.2	87.3	43.1	1.7	1.1
122°	86.2	100.8	81.7	39.7	1.7	1.1
123°	81.7	95.1	78.4	37.0	1.1	0.5
124°	76.2	90.1	73.9	33.6	1.1	0.5
125°	73.4	86.8	70.5	25.7	1.7	0.5
126°	67.7	81.2	67.2	19.6	1.1	1.1
127°	63.2	75.5	61.6	10.1	1.1	1.1
128°	59.9	72.7	57.1	5.6	1.1	0.5
129°	56.0	65.4	53.8	4.5	1.1	1.1
130°	51.0	61.6	48.7	4.0	1.1	1.1
131°	47.6	58.2	44.2	3.3	0.5	1.1
132°	43.1	53.1	40.8	2.8	1.7	1.1
133°	35.2	47.6	30.2	2.8	1.7	1.1
134°	28.5	44.2	19.6	2.2	1.1	1.1



TEST NUMBER: P571643  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	16.8	35.2	12.9	1.7	1.1	1.1
136°	8.4	20.7	6.1	1.7	1.7	1.7
137°	6.1	12.9	5.0	1.7	1.7	1.1
138°	5.6	7.8	5.6	1.7	2.2	1.7
139°	4.5	6.1	5.0	1.7	2.2	1.7
140°	4.0	5.0	3.3	2.2	1.7	1.7
141°	3.3	4.5	2.8	1.7	2.2	1.7
142°	2.8	4.0	2.8	2.2	2.2	2.2
143°	2.2	3.3	2.8	2.2	2.2	2.2
144°	2.8	2.8	2.8	2.8	2.8	2.2
145°	2.8	2.2	2.2	2.8	2.2	2.8
146°	2.8	3.3	2.8	2.8	3.3	2.8
147°	2.8	2.8	3.3	3.3	3.3	2.8
148°	2.8	3.3	4.0	3.3	2.8	3.3
149°	2.8	3.3	3.3	3.3	3.3	3.3
150°	3.3	4.0	3.3	4.0	4.0	4.0
151°	4.0	3.3	4.0	4.0	4.0	4.0
152°	4.0	4.0	4.0	4.5	4.0	3.3
153°	4.0	3.3	4.0	4.5	4.5	4.5
154°	4.0	4.5	4.5	4.0	4.0	4.5
155°	4.0	4.5	4.5	4.5	4.5	4.5
156°	4.0	5.0	4.5	5.0	5.0	4.5
157°	4.5	5.0	5.6	5.0	5.0	5.0
158°	5.0	4.5	4.5	5.0	5.6	5.0
159°	5.0	5.0	4.5	5.0	5.6	5.6
160°	4.5	5.0	5.6	5.6	5.6	5.6
161°	5.6	5.6	5.6	5.6	5.6	5.6
162°	5.0	5.0	5.6	6.1	6.1	6.1
163°	5.6	6.1	6.1	6.1	6.1	6.1
164°	5.6	5.6	6.1	6.1	6.7	6.7
165°	5.0	6.1	6.7	6.7	6.7	7.3
166°	6.1	6.1	6.7	6.7	7.3	6.7
167°	6.1	6.7	6.7	7.3	7.3	7.3
168°	6.7	6.7	7.3	7.3	7.8	7.3
169°	7.3	7.3	7.8	7.8	7.8	7.8
170°	7.3	7.3	7.3	7.3	7.8	7.8
171°	7.3	7.8	7.8	7.3	7.8	8.4
172°	7.3	8.4	7.8	7.8	7.8	8.4
173°	7.8	8.4	7.8	8.4	7.8	9.0
174°	7.8	8.4	8.4	8.4	8.4	8.4
175°	8.4	8.4	8.4	8.4	8.4	9.0
176°	8.4	8.4	7.8	8.4	9.0	8.4
177°	7.8	8.4	9.0	8.4	8.4	9.0
178°	8.4	9.0	9.0	9.0	8.4	8.4
179°	9.0	9.0	8.4	8.4	9.0	9.0



TEST NUMBER: P571643  
CATALOG NUMBER: 4ST2L4040

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	8.8	8.8	8.8	8.8	8.8	8.8

(END OF REPORT)