

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: P571646

Luminaire Tested: **4ST2L40SC3-4000K**

Issue Date: 3/18/2022

Test Information

Test Method: LM-79-08
Report Number: P571646
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: 4ST2L40SC3-4000K
Description: 4 FOOT ST2 STIPLIGHT WITH 4000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

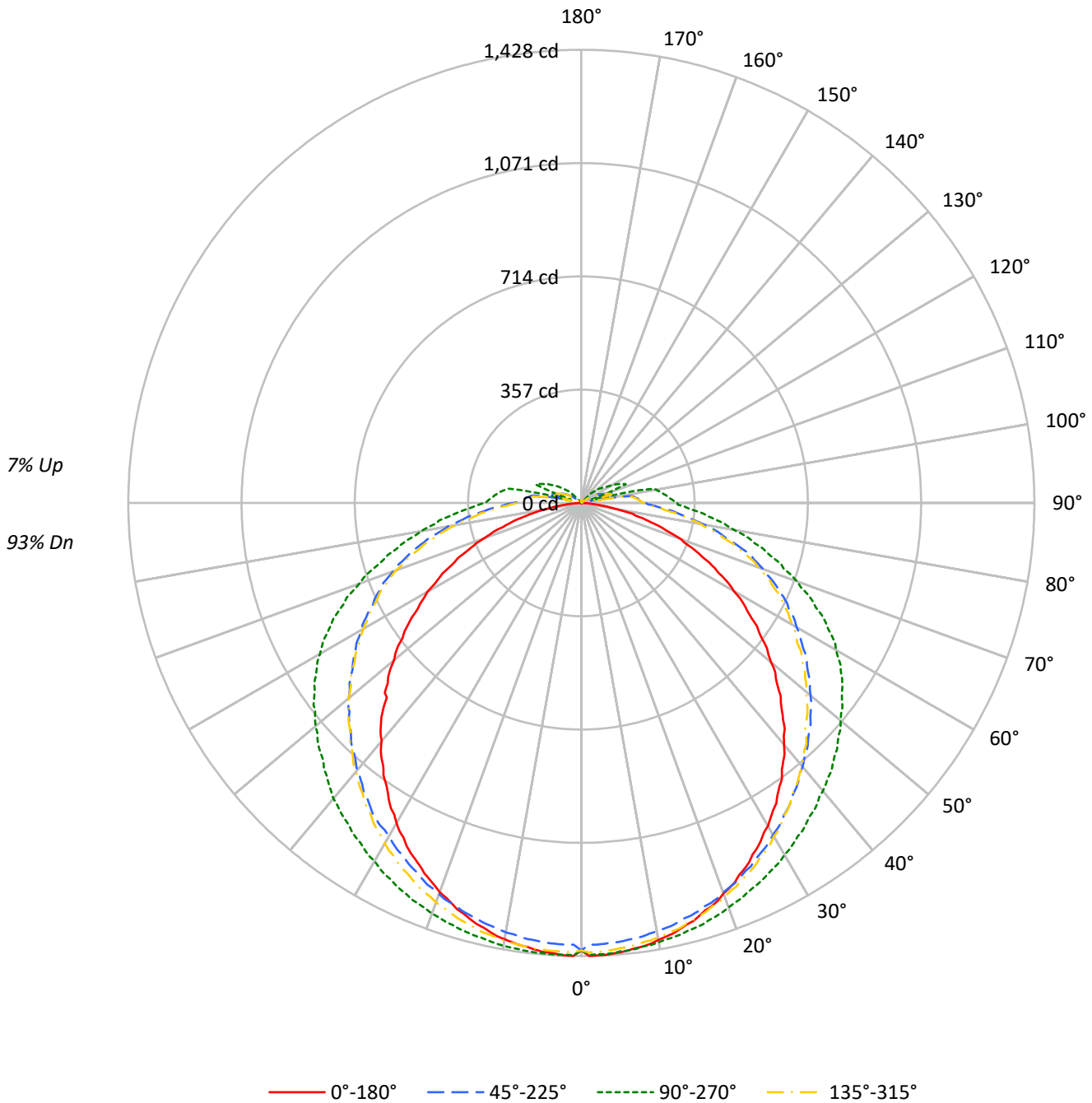
Lumens per Lamp: N/A
Luminaire Lumens: 5168.0 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.11')
CIE Type: Direct

Input Watts (W): 40.1
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: P571646
CATALOG NUMBER: 4ST2L40SC3-4000K

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°	13009	13009	13009	13009
5°	13132	12723	13116	12775
10°	13039	12358	13016	12461
15°	12933	12040	12865	12158
20°	12735	11734	12694	11912
25°	12570	11477	12459	11676
30°	12334	11232	12223	11432
35°	12044	11035	11888	11282
40°	11697	10878	11538	11169
45°	11297	10735	11015	10942
50°	10857	10619	10718	10882
55°	10455	10558	10319	10786
60°	9768	10409	9872	10685
65°	9169	10152	9097	10480
70°	8416	9665	8210	9947
75°	6993	9052	7165	9428
80°	5246	8374	5274	8776
85°	2991	7808	3136	8115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	2.6
10°-20°	384.1	7.4
20°-30°	588.5	11.4
30°-40°	725.3	14.0
40°-50°	783.1	15.2
50°-60°	762.9	14.8
60°-70°	668.1	12.9
70°-80°	496.6	9.6
80°-90°	288.1	5.6
90°-100°	165.4	3.2
100°-110°	60.8	1.2
110°-120°	62.7	1.2
120°-130°	33.2	0.6
130°-140°	9.0	0.2
140°-150°	1.9	0.0
150°-160°	2.1	0.0
160°-170°	1.9	0.0
170°-180°	0.8	0.0
0°-30°	1106.1	21.4
0°-40°	1831.5	35.4
0°-60°	3377.5	65.4
0°-90°	4830.2	93.5
90°-120°	289.0	5.6
90°-150°	333.0	6.4
90°-180°	338.0	6.5
0°-180°	5168.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1410	1410	1410	1410	1410	
5°	1421	1418	1420	1424	1421	135
15°	1364	1386	1357	1400	1364	384
25°	1250	1323	1239	1346	1250	575
35°	1090	1235	1076	1262	1090	681
45°	889	1128	867	1150	889	687
55°	675	1004	666	1026	675	600
65°	444	835	441	862	444	438
75°	216	606	221	631	216	233
85°	37	387	39	402	37	46
90°	2	302	4	304	2	2
95°	1	269	2	275	1	1
105°	1	41	1	41	1	1
115°	1	143	2	141	1	1
125°	1	86	1	91	1	1
135°	1	41	2	37	1	1
145°	3	3	3	2	3	2
155°	5	5	5	5	5	2
165°	8	6	6	6	8	2
175°	9	9	8	9	9	1
180°	9	9	9	9	9	



TEST NUMBER: P571646
 CATALOG NUMBER: 4ST2L40SC3-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0
1°	1427.7	1360.2	1391.9	1431.3	1424.2	1400.2	1416.6	1415.4	1427.7	1360.2	1391.9
2°	1427.2	1359.6	1392.6	1430.6	1423.0	1398.4	1414.8	1414.8	1427.2	1359.6	1393.1
3°	1426.6	1359.1	1391.3	1430.1	1423.7	1396.6	1414.2	1413.7	1424.2	1358.5	1391.9
4°	1423.7	1357.3	1388.4	1429.0	1421.9	1396.0	1411.9	1411.3	1420.6	1356.2	1391.3
5°	1421.3	1354.9	1388.4	1427.2	1418.4	1394.2	1408.4	1407.8	1419.5	1353.8	1389.0
6°	1417.7	1353.2	1384.9	1424.2	1418.4	1390.2	1406.6	1406.0	1414.8	1352.6	1386.0
7°	1413.1	1349.1	1382.6	1421.9	1415.4	1389.0	1403.1	1401.9	1409.5	1348.0	1384.9
8°	1410.8	1345.6	1379.6	1419.5	1410.8	1384.9	1397.8	1395.5	1406.6	1342.7	1380.8
9°	1406.0	1341.4	1374.4	1415.4	1410.1	1380.8	1395.5	1391.3	1401.3	1339.6	1376.0
10°	1398.4	1335.6	1370.8	1413.1	1405.5	1378.4	1389.6	1387.8	1396.0	1333.8	1373.7
11°	1392.6	1332.0	1366.2	1409.5	1401.3	1374.4	1385.5	1380.2	1390.8	1327.4	1368.4
12°	1387.8	1324.5	1362.6	1404.2	1398.4	1369.1	1380.2	1371.4	1382.0	1318.5	1363.1
13°	1378.4	1316.2	1356.2	1401.3	1395.5	1364.9	1375.5	1367.8	1373.1	1314.5	1359.1
14°	1369.6	1312.1	1348.5	1394.9	1389.6	1360.2	1367.3	1358.5	1367.3	1310.3	1352.0
15°	1363.8	1303.2	1344.9	1387.8	1386.0	1354.4	1360.2	1348.5	1356.7	1301.6	1346.7
16°	1352.6	1298.0	1338.0	1383.7	1382.6	1348.5	1354.4	1342.7	1346.2	1291.6	1341.4
17°	1341.4	1290.3	1329.1	1376.7	1374.9	1343.8	1346.2	1333.2	1339.6	1285.0	1332.7
18°	1335.0	1280.4	1324.5	1368.4	1370.2	1336.2	1336.7	1320.9	1325.6	1277.4	1326.7
19°	1324.5	1271.0	1317.4	1366.7	1364.4	1330.9	1330.9	1313.8	1314.5	1265.7	1320.9
20°	1309.8	1263.9	1306.8	1357.8	1356.7	1323.8	1320.9	1304.5	1305.6	1255.7	1312.1
21°	1301.0	1252.2	1298.6	1350.9	1349.6	1316.2	1310.3	1289.2	1291.0	1248.6	1302.1
22°	1289.8	1241.1	1292.1	1345.6	1344.9	1310.3	1303.2	1280.4	1278.6	1238.1	1296.8
23°	1273.4	1233.5	1281.6	1335.6	1335.6	1301.6	1291.6	1269.2	1267.5	1224.0	1285.7
24°	1262.8	1219.3	1270.4	1327.4	1328.5	1293.9	1281.6	1255.2	1251.0	1216.4	1273.9
25°	1250.4	1207.0	1263.4	1321.4	1322.7	1286.8	1273.4	1247.0	1239.3	1203.5	1266.8
26°	1232.2	1198.8	1251.0	1309.8	1315.0	1276.8	1262.2	1229.9	1227.0	1188.2	1255.7
27°	1220.6	1183.5	1240.4	1300.3	1305.6	1272.8	1248.6	1215.8	1213.5	1179.4	1244.0
28°	1205.8	1170.0	1232.2	1293.9	1299.2	1264.6	1240.4	1205.3	1194.0	1166.5	1237.0
29°	1187.1	1160.7	1222.2	1281.6	1292.1	1257.0	1228.8	1187.6	1182.9	1150.1	1225.8
30°	1175.8	1147.1	1208.2	1271.6	1280.4	1244.6	1212.9	1172.9	1165.3	1139.5	1212.2
31°	1157.7	1130.7	1198.8	1258.6	1273.4	1238.1	1204.7	1161.2	1145.4	1126.0	1202.9
32°	1141.2	1119.6	1188.2	1251.0	1263.4	1227.5	1189.4	1141.8	1133.0	1109.0	1198.2
33°	1128.3	1109.0	1172.9	1241.7	1252.8	1215.8	1174.2	1127.2	1114.8	1101.9	1187.1
34°	1106.1	1087.2	1163.6	1231.7	1246.4	1208.8	1164.7	1113.7	1092.5	1082.6	1178.2
35°	1089.6	1075.5	1150.7	1221.1	1234.6	1197.6	1150.1	1093.1	1075.5	1067.3	1163.0
36°	1074.9	1060.2	1135.4	1210.6	1222.9	1184.7	1132.5	1076.6	1060.8	1056.2	1149.4
37°	1050.8	1040.2	1125.4	1201.7	1216.4	1177.6	1123.0	1059.1	1037.3	1036.7	1140.1
38°	1033.3	1028.5	1111.3	1190.6	1205.8	1167.1	1109.6	1046.2	1022.7	1020.9	1123.0
39°	1018.0	1011.5	1094.8	1176.5	1192.4	1156.5	1094.3	1023.8	1004.5	1009.1	1110.1
40°	993.3	990.3	1084.9	1168.9	1184.7	1148.9	1083.7	1006.2	979.8	988.0	1100.1
41°	972.8	978.7	1070.2	1155.4	1174.7	1134.8	1065.5	992.1	964.5	971.0	1083.1
42°	958.1	961.6	1057.9	1140.7	1163.0	1123.0	1049.7	968.7	945.2	958.7	1069.0
43°	932.3	948.1	1046.7	1131.9	1155.4	1114.3	1039.7	951.0	924.1	937.5	1058.4
44°	910.6	931.1	1029.1	1119.0	1141.2	1098.4	1020.3	936.4	897.7	921.1	1045.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	889.3	908.8	1016.8	1103.1	1128.3	1085.5	997.4	908.8	867.1	898.2	1027.3
46°	872.9	895.9	1005.1	1093.7	1120.1	1070.2	986.3	895.3	861.3	884.1	1012.1
47°	846.0	876.5	987.4	1080.8	1105.4	1060.8	974.5	880.6	834.9	867.1	1002.1
48°	824.9	854.7	973.4	1064.9	1091.9	1047.9	959.2	856.5	818.9	853.6	983.9
49°	809.0	841.3	961.0	1052.0	1083.1	1038.5	939.3	837.1	797.8	830.7	973.4
50°	780.8	821.9	942.8	1042.6	1067.3	1022.0	927.0	823.1	770.8	812.5	957.5
51°	759.0	799.0	926.4	1028.0	1053.8	1009.1	912.3	803.1	754.4	794.9	939.3
52°	742.6	780.8	915.2	1011.5	1044.4	998.0	895.3	779.0	733.9	780.3	927.0
53°	714.4	765.5	896.4	1000.9	1028.0	986.3	883.5	766.1	705.7	757.3	911.1
54°	691.6	742.6	879.5	986.3	1015.6	969.2	863.6	745.5	688.6	743.9	891.1
55°	675.1	728.0	868.2	968.7	1004.5	958.1	847.1	722.1	666.3	724.4	879.5
56°	646.3	709.8	852.4	958.7	991.6	945.2	835.4	707.5	644.0	701.5	864.7
57°	622.9	690.4	831.8	943.4	975.1	928.1	811.4	688.6	615.8	672.7	848.3
58°	605.9	666.9	816.0	925.2	963.4	913.5	799.0	664.5	599.9	668.1	836.5
59°	583.5	652.9	804.3	913.5	943.9	902.9	787.2	650.5	577.7	645.2	817.2
60°	554.2	632.9	783.2	898.2	927.0	883.5	767.3	631.7	560.1	627.0	800.1
61°	537.1	618.8	770.3	885.3	915.2	868.9	751.5	607.6	532.4	612.9	788.5
62°	514.2	596.5	754.4	862.9	895.9	856.0	738.6	593.5	509.6	590.1	768.5
63°	485.5	577.1	733.9	845.4	872.4	833.6	718.0	575.9	492.5	570.6	752.1
64°	467.9	563.0	721.5	820.7	857.1	816.0	703.9	552.4	463.8	557.1	730.9
65°	444.4	540.1	703.9	806.0	835.4	801.4	690.9	539.5	440.9	537.7	719.1
66°	416.3	521.3	681.6	786.1	809.0	781.4	668.7	519.5	424.5	514.9	703.3
67°	398.6	507.3	668.1	763.7	792.5	756.1	651.1	501.4	395.1	501.4	681.6
68°	375.7	484.3	648.7	747.3	770.3	740.3	638.1	477.8	372.8	483.2	673.4
69°	346.9	466.7	625.2	720.4	741.5	718.6	613.5	463.8	355.1	459.6	651.1
70°	335.2	452.7	610.5	696.9	723.9	690.9	593.0	445.6	327.0	446.1	631.7
71°	306.5	430.3	590.1	679.8	700.9	674.0	578.8	431.5	304.7	428.6	617.6
72°	283.6	412.7	570.6	650.5	671.1	650.5	557.7	409.2	287.6	406.3	593.0
73°	266.5	399.8	560.1	626.5	658.7	619.9	532.4	391.5	259.5	393.3	573.0
74°	238.4	381.6	527.8	608.8	629.4	602.3	516.0	378.6	237.7	375.7	557.7
75°	216.0	360.4	505.5	578.8	605.9	579.4	493.8	358.1	221.3	354.6	532.4
76°	200.2	342.9	476.1	555.9	588.8	550.1	466.1	340.5	200.8	336.9	510.2
77°	173.1	328.7	459.1	538.4	559.5	533.1	449.1	327.0	173.8	324.0	493.8
78°	167.8	304.7	441.5	507.8	542.4	509.6	426.8	304.7	158.5	307.0	466.1
79°	138.0	285.4	419.7	484.9	517.8	487.3	398.6	285.4	139.1	292.9	443.2
80°	113.9	270.1	392.8	468.5	489.6	470.3	382.8	265.9	114.5	269.4	426.8
81°	95.7	244.2	368.7	445.6	467.3	442.7	359.9	251.2	101.0	251.2	399.2
82°	82.2	224.2	340.0	417.4	451.4	421.0	331.7	226.0	83.9	236.6	378.1
83°	65.7	209.0	323.5	401.0	423.9	405.7	320.5	210.8	63.4	211.9	361.1
84°	47.0	183.8	302.3	385.1	402.1	379.8	293.6	190.8	52.2	192.6	339.3
85°	37.0	169.6	287.0	362.8	386.9	357.5	267.7	167.3	38.8	177.3	311.1
86°	22.9	150.9	261.2	336.9	361.1	342.2	253.6	148.0	24.6	153.8	294.7
87°	14.0	128.5	241.3	316.4	340.5	315.8	233.0	133.2	19.3	136.2	273.6
88°	9.4	116.3	226.6	292.3	325.8	297.6	214.2	112.1	10.0	122.7	249.0
89°	4.2	101.0	209.5	280.6	304.7	283.6	203.7	97.4	5.3	102.7	234.8



TEST NUMBER: P571646
 CATALOG NUMBER: 4ST2L40SC3-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	2.4	95.2	201.3	274.7	302.3	268.3	196.0	91.6	3.5	90.4	215.5
91°	1.8	91.0	196.7	270.1	293.6	264.1	190.8	88.1	2.9	86.8	195.5
92°	2.4	85.2	192.6	263.0	287.0	258.9	186.7	83.9	1.8	80.4	190.2
93°	2.4	81.0	184.4	257.2	279.4	255.4	180.8	81.0	2.4	77.5	184.4
94°	1.8	78.1	180.2	250.6	274.7	248.3	175.5	75.7	2.4	73.9	180.2
95°	1.1	53.5	175.5	246.6	268.8	244.2	172.6	49.9	1.8	60.4	177.3
96°	1.8	31.7	169.6	240.6	261.9	239.0	166.2	37.5	1.8	37.0	170.2
97°	1.8	28.2	166.7	233.7	257.2	232.4	160.9	31.1	1.8	32.9	164.4
98°	1.8	29.9	157.3	229.5	251.9	228.4	152.0	35.8	1.8	33.5	161.4
99°	1.1	42.8	109.8	222.4	244.2	223.1	105.7	42.8	1.8	41.7	149.1
100°	1.1	42.2	69.9	216.0	239.5	215.5	50.4	41.1	1.1	40.6	116.3
101°	1.1	39.9	34.6	195.5	233.7	208.4	40.6	38.8	1.1	38.2	84.5
102°	1.1	37.5	32.9	134.5	201.3	172.6	36.4	36.4	1.8	36.4	46.4
103°	1.1	34.6	29.9	75.7	164.4	109.2	34.0	34.0	1.8	34.6	42.2
104°	1.1	32.9	31.7	34.6	94.5	52.8	36.4	31.7	1.8	32.9	40.6
105°	1.1	29.9	57.5	28.8	40.6	35.8	67.0	30.6	1.1	29.9	47.5
106°	1.1	28.8	83.9	27.6	35.8	34.6	98.1	28.2	1.1	28.2	71.7
107°	0.6	26.4	102.1	26.4	34.0	32.2	96.3	25.8	1.1	25.3	92.1
108°	1.1	23.5	97.4	32.2	33.5	30.6	93.4	24.6	1.1	23.5	95.2
109°	0.6	21.7	94.5	54.6	32.9	42.2	89.2	22.4	1.1	21.1	91.0
110°	1.1	20.0	88.6	92.8	54.6	83.4	85.7	19.3	1.1	18.2	88.1
111°	1.1	15.8	82.8	137.4	91.0	112.7	78.6	17.6	1.1	11.8	82.8
112°	1.1	11.1	78.6	136.2	121.6	134.5	73.4	10.6	0.6	7.6	79.9
113°	1.1	5.3	72.8	130.9	152.0	131.4	69.9	4.7	1.1	4.7	77.0
114°	1.1	3.5	68.6	126.2	146.7	125.0	65.2	4.2	1.1	4.2	73.9
115°	0.6	3.5	65.7	122.1	143.2	119.8	61.7	3.5	1.8	3.5	69.3
116°	0.6	2.9	62.8	115.0	137.4	112.7	60.4	2.9	1.1	2.9	66.3
117°	0.6	1.8	58.8	108.6	129.8	108.0	57.5	2.4	1.1	1.8	63.4
118°	1.1	1.8	57.0	103.4	125.6	102.1	54.6	1.8	1.1	1.8	58.1
119°	0.6	1.8	53.5	96.3	118.0	97.4	51.7	1.8	1.1	1.8	56.4
120°	0.6	1.8	48.8	92.1	110.3	92.1	49.3	1.8	1.1	1.8	51.7
121°	1.1	1.8	45.8	86.3	105.0	85.7	45.2	1.8	1.1	1.8	48.1
122°	1.1	1.1	43.5	83.4	99.2	82.2	42.2	1.8	1.1	1.8	45.2
123°	0.6	1.1	38.8	79.2	93.4	79.2	39.3	0.6	1.1	1.8	41.1
124°	0.6	1.1	35.8	74.6	90.4	74.6	34.6	1.8	1.8	1.8	37.0
125°	0.6	1.1	33.5	71.7	86.3	71.0	31.7	1.1	1.1	1.1	35.3
126°	1.1	0.6	24.6	67.5	80.4	68.1	24.0	1.8	1.1	1.1	27.0
127°	1.1	1.8	14.7	63.4	78.1	64.0	11.8	1.1	1.1	1.1	17.6
128°	0.6	1.1	8.2	60.4	72.8	59.9	8.2	1.1	1.1	1.1	11.1
129°	1.1	1.1	4.7	55.2	70.4	57.5	5.3	1.1	1.1	1.8	5.8
130°	1.1	1.1	4.2	50.4	65.2	52.8	4.2	1.1	1.1	1.8	5.8
131°	1.1	1.8	4.2	47.5	60.4	48.1	4.2	1.8	1.8	1.1	4.7
132°	1.1	1.1	2.9	42.2	54.0	45.2	3.5	1.8	1.8	1.8	3.5
133°	1.1	1.1	2.4	38.2	52.8	41.1	2.9	2.4	1.8	1.8	2.9
134°	1.1	1.8	1.8	28.2	47.0	29.9	2.4	1.1	1.1	1.8	2.9



TEST NUMBER: P571646
 CATALOG NUMBER: 4ST2L40SC3-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.1	1.1	1.8	21.7	41.1	21.7	1.8	1.8	1.8	1.8	2.4
136°	1.8	1.1	2.4	7.6	32.9	10.6	1.8	1.8	1.1	1.8	2.4
137°	1.1	1.1	1.8	5.3	16.4	6.4	1.8	1.8	1.8	1.8	2.4
138°	1.8	1.8	1.8	4.7	8.8	5.8	1.8	1.8	1.8	1.8	2.4
139°	1.8	1.8	1.8	4.7	6.4	4.7	2.4	1.8	1.8	2.4	1.8
140°	1.8	1.8	2.4	3.5	5.3	4.2	2.9	2.4	2.4	1.8	2.4
141°	1.8	2.4	2.4	2.9	4.7	3.5	2.4	2.4	2.4	2.9	2.9
142°	2.4	2.4	2.4	2.9	4.7	3.5	2.4	2.4	1.8	2.9	2.9
143°	2.4	2.4	2.4	2.4	3.5	2.9	2.4	2.4	2.4	2.4	2.9
144°	2.4	2.9	2.9	2.9	2.9	2.9	2.4	2.4	2.9	2.9	2.9
145°	2.9	2.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
146°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	3.5	2.9
147°	2.9	2.9	2.9	2.9	3.5	2.9	3.5	2.9	2.9	2.9	2.9
148°	3.5	3.5	3.5	3.5	3.5	2.9	2.9	2.9	3.5	2.9	2.9
149°	3.5	3.5	4.2	4.2	4.2	3.5	2.9	2.9	3.5	3.5	3.5
150°	4.2	4.2	3.5	3.5	3.5	3.5	3.5	4.2	3.5	3.5	3.5
151°	4.2	4.2	3.5	4.2	4.2	3.5	4.2	4.2	4.2	3.5	3.5
152°	3.5	4.2	4.2	4.2	4.2	3.5	4.2	4.2	4.2	4.2	4.2
153°	4.7	4.7	4.2	4.2	4.7	4.2	4.2	3.5	4.2	4.2	4.2
154°	4.7	4.7	4.7	4.2	4.7	4.2	3.5	4.2	4.2	4.2	4.7
155°	4.7	5.3	5.3	4.2	4.7	4.2	4.2	4.7	4.7	4.7	4.2
156°	4.7	4.7	5.3	5.3	4.7	4.7	4.2	4.7	4.7	4.7	4.2
157°	5.3	5.3	5.3	5.3	5.3	4.2	4.7	5.3	4.7	4.7	4.7
158°	5.3	5.8	5.3	5.3	5.8	4.7	5.3	4.7	5.3	5.3	4.7
159°	5.8	5.8	5.3	5.8	5.8	5.3	5.3	5.3	5.3	5.3	5.3
160°	5.8	5.8	6.4	5.3	5.8	4.7	5.3	5.3	5.8	5.3	5.3
161°	5.8	6.4	5.8	6.4	5.8	5.3	5.8	5.3	5.8	5.8	5.3
162°	6.4	6.4	6.4	6.4	6.4	5.3	5.8	5.3	5.8	5.3	5.3
163°	6.4	6.4	7.1	6.4	6.4	5.8	5.8	6.4	5.8	5.8	5.8
164°	7.1	7.1	7.6	7.1	7.1	6.4	6.4	5.8	6.4	6.4	5.3
165°	7.6	7.1	7.6	7.6	6.4	5.8	6.4	6.4	6.4	6.4	6.4
166°	7.1	7.6	7.6	7.6	7.1	6.4	6.4	7.1	6.4	6.4	5.8
167°	7.6	7.6	8.2	7.6	7.6	6.4	7.6	7.1	6.4	7.1	7.1
168°	7.6	7.6	8.2	8.2	7.6	6.4	7.6	7.1	7.1	7.1	7.1
169°	8.2	8.8	8.8	8.8	8.2	7.1	7.1	7.6	7.6	7.1	7.1
170°	8.2	8.2	9.4	8.8	8.2	7.6	8.2	7.6	8.2	7.6	7.1
171°	8.8	8.8	9.4	8.8	8.8	8.2	7.6	7.6	7.6	8.2	7.6
172°	8.8	8.2	8.8	8.8	8.2	8.8	8.2	8.2	7.6	7.6	7.6
173°	9.4	9.4	9.4	9.4	8.2	8.8	8.2	8.8	8.2	8.2	8.2
174°	8.8	9.4	9.4	9.4	8.8	8.8	8.8	8.2	8.2	8.2	8.2
175°	9.4	9.4	9.4	9.4	9.4	8.8	8.8	8.8	8.2	8.8	8.8
176°	8.8	9.4	8.8	8.8	8.8	8.8	8.8	8.8	8.2	8.8	8.2
177°	9.4	9.4	9.4	9.4	9.4	8.8	8.2	8.2	8.8	8.8	8.2
178°	8.8	8.8	9.4	9.4	9.4	8.2	8.8	8.8	8.8	8.8	8.2
179°	9.4	9.4	8.8	9.4	9.4	9.4	9.4	9.4	9.4	9.4	8.8



TEST NUMBER: P571646
CATALOG NUMBER: 4ST2L40SC3-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2



TEST NUMBER: P571646
 CATALOG NUMBER: 4ST2L40SC3-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0
1°	1431.9	1425.4	1400.2	1416.0	1416.6	1427.7
2°	1433.0	1424.2	1400.2	1416.0	1416.6	1427.2
3°	1431.9	1426.0	1400.8	1414.8	1416.0	1426.6
4°	1431.9	1425.4	1399.5	1414.8	1415.4	1423.7
5°	1431.3	1424.2	1398.4	1412.4	1412.4	1421.3
6°	1429.0	1423.7	1398.4	1412.4	1409.5	1417.7
7°	1426.6	1422.4	1396.0	1409.5	1407.2	1413.1
8°	1423.7	1420.1	1394.2	1406.0	1402.6	1410.8
9°	1422.4	1418.4	1391.3	1403.7	1397.2	1406.0
10°	1418.4	1417.2	1390.2	1400.8	1394.9	1398.4
11°	1414.2	1414.2	1386.6	1395.5	1389.0	1392.6
12°	1411.9	1409.5	1382.0	1390.8	1381.3	1387.8
13°	1407.8	1405.5	1380.2	1387.8	1376.0	1378.4
14°	1402.6	1404.2	1374.9	1381.3	1370.2	1369.6
15°	1399.0	1399.5	1369.6	1373.7	1361.4	1363.8
16°	1394.2	1396.0	1366.7	1369.6	1354.4	1352.6
17°	1389.6	1390.8	1362.0	1362.0	1346.7	1341.4
18°	1384.4	1386.6	1354.9	1353.2	1337.3	1335.0
19°	1377.3	1381.3	1353.2	1346.2	1330.9	1324.5
20°	1370.2	1377.3	1345.6	1339.6	1318.5	1309.8
21°	1362.6	1369.1	1339.1	1329.1	1307.4	1301.0
22°	1358.5	1364.4	1335.0	1321.4	1299.2	1289.8
23°	1349.1	1359.6	1325.6	1314.5	1285.0	1273.4
24°	1339.1	1351.4	1317.4	1302.7	1273.9	1262.8
25°	1333.2	1345.6	1313.2	1291.6	1263.9	1250.4
26°	1325.0	1338.5	1303.2	1283.9	1247.0	1232.2
27°	1313.8	1329.1	1293.9	1272.8	1235.2	1220.6
28°	1308.0	1323.8	1287.4	1259.9	1224.6	1205.8
29°	1299.8	1314.5	1278.1	1251.7	1207.0	1187.1
30°	1289.2	1303.2	1268.1	1239.3	1192.9	1175.8
31°	1283.4	1298.6	1257.0	1224.6	1181.2	1157.7
32°	1271.0	1288.6	1249.3	1214.6	1165.3	1141.2
33°	1260.4	1277.4	1241.1	1202.9	1154.7	1128.3
34°	1252.8	1271.0	1229.9	1185.8	1133.6	1106.1
35°	1239.3	1262.2	1223.5	1175.8	1116.6	1089.6
36°	1228.2	1250.4	1210.0	1163.0	1095.5	1074.9
37°	1219.9	1242.8	1198.8	1146.0	1082.6	1050.8
38°	1206.4	1234.6	1192.4	1134.8	1064.4	1033.3
39°	1195.3	1223.5	1184.7	1120.7	1041.5	1018.0
40°	1185.8	1216.4	1167.6	1104.8	1028.0	993.3
41°	1171.8	1202.4	1159.4	1094.3	1009.8	972.8
42°	1160.7	1190.6	1144.8	1076.1	986.9	958.1
43°	1151.2	1176.5	1134.8	1060.2	972.1	932.3
44°	1134.8	1167.6	1123.6	1049.7	954.6	910.6



TEST NUMBER: P571646
 CATALOG NUMBER: 4ST2L40SC3-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1123.0	1150.1	1108.4	1030.3	931.7	889.3
46°	1113.7	1140.1	1096.6	1015.6	916.4	872.9
47°	1099.6	1130.7	1086.6	1003.8	897.7	846.0
48°	1083.1	1119.0	1073.7	984.5	876.5	824.9
49°	1073.7	1103.1	1056.7	969.8	852.4	809.0
50°	1057.9	1093.7	1047.3	957.5	838.3	780.8
51°	1042.6	1080.8	1033.3	937.0	818.3	759.0
52°	1032.6	1064.4	1016.2	921.1	793.7	742.6
53°	1016.8	1057.3	1006.9	908.8	777.9	714.4
54°	999.8	1040.9	992.1	891.7	759.0	691.6
55°	988.7	1026.2	974.5	871.8	734.4	675.1
56°	975.1	1015.6	964.5	859.5	719.1	646.3
57°	956.3	997.4	950.5	843.1	699.8	622.9
58°	944.6	983.4	932.3	822.5	675.7	605.9
59°	931.1	971.0	925.2	810.1	660.5	583.5
60°	914.6	951.6	907.0	794.3	641.1	554.2
61°	904.1	935.2	890.6	773.7	627.0	537.1
62°	881.1	920.5	879.5	757.3	603.5	514.2
63°	862.9	897.7	858.3	745.5	582.4	485.5
64°	840.1	877.7	840.1	724.4	564.2	467.9
65°	824.9	862.4	826.0	708.0	549.5	444.4
66°	804.9	837.1	802.5	695.1	526.0	416.3
67°	779.0	813.1	781.9	677.5	507.8	398.6
68°	762.6	797.8	766.7	654.5	493.1	375.7
69°	741.5	769.7	739.1	640.5	469.6	346.9
70°	712.7	745.0	716.8	621.7	451.4	335.2
71°	694.5	726.8	699.8	596.5	436.8	306.5
72°	671.6	702.2	677.5	581.2	414.5	283.6
73°	647.6	672.2	646.9	561.2	395.1	266.5
74°	629.9	648.7	628.7	534.2	382.2	238.4
75°	599.9	631.1	605.2	517.8	359.9	216.0
76°	577.1	601.2	575.3	496.0	341.7	200.2
77°	559.5	583.0	557.7	467.3	328.7	173.1
78°	529.5	559.5	534.2	450.3	311.1	167.8
79°	505.5	531.3	505.5	427.4	288.3	138.0
80°	487.8	513.1	488.5	404.5	273.0	113.9
81°	459.1	490.2	465.6	387.5	254.2	95.7
82°	436.1	462.0	436.8	358.7	229.0	82.2
83°	419.7	450.9	420.3	336.4	212.6	65.7
84°	392.2	423.3	399.2	320.0	193.1	47.0
85°	371.0	402.1	378.6	291.8	177.8	37.0
86°	355.1	381.0	352.8	275.9	153.8	22.9
87°	334.6	360.4	338.2	255.9	135.0	14.0
88°	309.4	339.3	318.2	233.0	113.9	9.4
89°	294.7	324.0	302.9	219.5	102.7	4.2



TEST NUMBER: P571646
 CATALOG NUMBER: 4ST2L40SC3-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	275.9	303.6	278.3	201.3	91.0	2.4
91°	265.4	296.5	267.7	192.0	87.5	1.8
92°	261.2	292.3	260.6	186.7	81.6	2.4
93°	252.4	284.1	256.6	183.1	78.1	2.4
94°	247.7	278.8	250.1	176.7	69.3	1.8
95°	244.2	274.7	243.0	171.4	50.4	1.1
96°	239.5	267.7	239.0	167.8	30.6	1.8
97°	234.2	261.2	233.7	163.2	27.6	1.8
98°	230.1	256.6	226.0	144.4	33.5	1.8
99°	223.1	249.0	222.4	115.6	40.6	1.1
100°	212.6	242.4	216.0	66.3	38.2	1.1
101°	190.8	233.7	190.8	37.0	37.5	1.1
102°	119.2	196.7	156.7	34.6	35.8	1.1
103°	78.1	129.2	88.1	32.2	33.5	1.1
104°	47.0	85.2	37.5	47.5	31.7	1.1
105°	38.8	40.6	32.9	69.3	29.3	1.1
106°	38.8	37.0	30.6	99.2	29.3	1.1
107°	37.0	35.8	28.8	97.4	25.8	0.6
108°	35.8	34.6	32.9	96.3	22.4	1.1
109°	47.0	46.4	67.0	89.2	20.6	0.6
110°	77.0	71.0	105.0	85.2	17.6	1.1
111°	113.2	110.3	130.9	82.8	10.0	1.1
112°	135.0	153.8	132.1	78.6	6.4	1.1
113°	130.9	153.8	126.8	74.6	4.7	1.1
114°	126.8	148.0	122.7	71.7	2.9	1.1
115°	121.6	140.9	118.6	67.0	2.9	0.6
116°	118.0	137.4	112.7	63.4	2.4	0.6
117°	112.1	130.9	109.2	60.4	2.4	0.6
118°	108.0	126.2	105.0	55.2	1.8	1.1
119°	103.9	122.7	99.8	52.2	1.8	0.6
120°	99.2	116.3	95.7	49.9	1.8	0.6
121°	94.5	110.3	91.6	45.2	1.8	1.1
122°	90.4	105.7	85.7	41.7	1.8	1.1
123°	85.7	99.8	82.2	38.8	1.1	0.6
124°	79.9	94.5	77.5	35.3	1.1	0.6
125°	77.0	91.0	73.9	27.0	1.8	0.6
126°	71.0	85.2	70.4	20.6	1.1	1.1
127°	66.3	79.2	64.6	10.6	1.1	1.1
128°	62.8	76.3	59.9	5.8	1.1	0.6
129°	58.8	68.6	56.4	4.7	1.1	1.1
130°	53.5	64.6	51.1	4.2	1.1	1.1
131°	49.9	61.0	46.4	3.5	0.6	1.1
132°	45.2	55.7	42.8	2.9	1.8	1.1
133°	37.0	49.9	31.7	2.9	1.8	1.1
134°	29.9	46.4	20.6	2.4	1.1	1.1



TEST NUMBER: P571646
 CATALOG NUMBER: 4ST2L40SC3-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	17.6	37.0	13.5	1.8	1.1	1.1
136°	8.8	21.7	6.4	1.8	1.8	1.8
137°	6.4	13.5	5.3	1.8	1.8	1.1
138°	5.8	8.2	5.8	1.8	2.4	1.8
139°	4.7	6.4	5.3	1.8	2.4	1.8
140°	4.2	5.3	3.5	2.4	1.8	1.8
141°	3.5	4.7	2.9	1.8	2.4	1.8
142°	2.9	4.2	2.9	2.4	2.4	2.4
143°	2.4	3.5	2.9	2.4	2.4	2.4
144°	2.9	2.9	2.9	2.9	2.9	2.4
145°	2.9	2.4	2.4	2.9	2.4	2.9
146°	2.9	3.5	2.9	2.9	3.5	2.9
147°	2.9	2.9	3.5	3.5	3.5	2.9
148°	2.9	3.5	4.2	3.5	2.9	3.5
149°	2.9	3.5	3.5	3.5	3.5	3.5
150°	3.5	4.2	3.5	4.2	4.2	4.2
151°	4.2	3.5	4.2	4.2	4.2	4.2
152°	4.2	4.2	4.2	4.7	4.2	3.5
153°	4.2	3.5	4.2	4.7	4.7	4.7
154°	4.2	4.7	4.7	4.2	4.2	4.7
155°	4.2	4.7	4.7	4.7	4.7	4.7
156°	4.2	5.3	4.7	5.3	5.3	4.7
157°	4.7	5.3	5.8	5.3	5.3	5.3
158°	5.3	4.7	4.7	5.3	5.8	5.3
159°	5.3	5.3	4.7	5.3	5.8	5.8
160°	4.7	5.3	5.8	5.8	5.8	5.8
161°	5.8	5.8	5.8	5.8	5.8	5.8
162°	5.3	5.3	5.8	6.4	6.4	6.4
163°	5.8	6.4	6.4	6.4	6.4	6.4
164°	5.8	5.8	6.4	6.4	7.1	7.1
165°	5.3	6.4	7.1	7.1	7.1	7.6
166°	6.4	6.4	7.1	7.1	7.6	7.1
167°	6.4	7.1	7.1	7.6	7.6	7.6
168°	7.1	7.1	7.6	7.6	8.2	7.6
169°	7.6	7.6	8.2	8.2	8.2	8.2
170°	7.6	7.6	7.6	7.6	8.2	8.2
171°	7.6	8.2	8.2	7.6	8.2	8.8
172°	7.6	8.8	8.2	8.2	8.2	8.8
173°	8.2	8.8	8.2	8.8	8.2	9.4
174°	8.2	8.8	8.8	8.8	8.8	8.8
175°	8.8	8.8	8.8	8.8	8.8	9.4
176°	8.8	8.8	8.2	8.8	9.4	8.8
177°	8.2	8.8	9.4	8.8	8.8	9.4
178°	8.8	9.4	9.4	9.4	8.8	8.8
179°	9.4	9.4	8.8	8.8	9.4	9.4



TEST NUMBER: P571646
CATALOG NUMBER: 4ST2L40SC3-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	9.2	9.2	9.2	9.2	9.2	9.2

(END OF REPORT)