

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: P571647

Luminaire Tested: **4ST2L40SC3-5000K**

Issue Date: 3/18/2022

Test Information

Test Method: LM-79-08
Report Number: P571647
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: 4ST2L40SC3-5000K
Description: 4 FOOT ST2 STIPLIGHT WITH 5000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

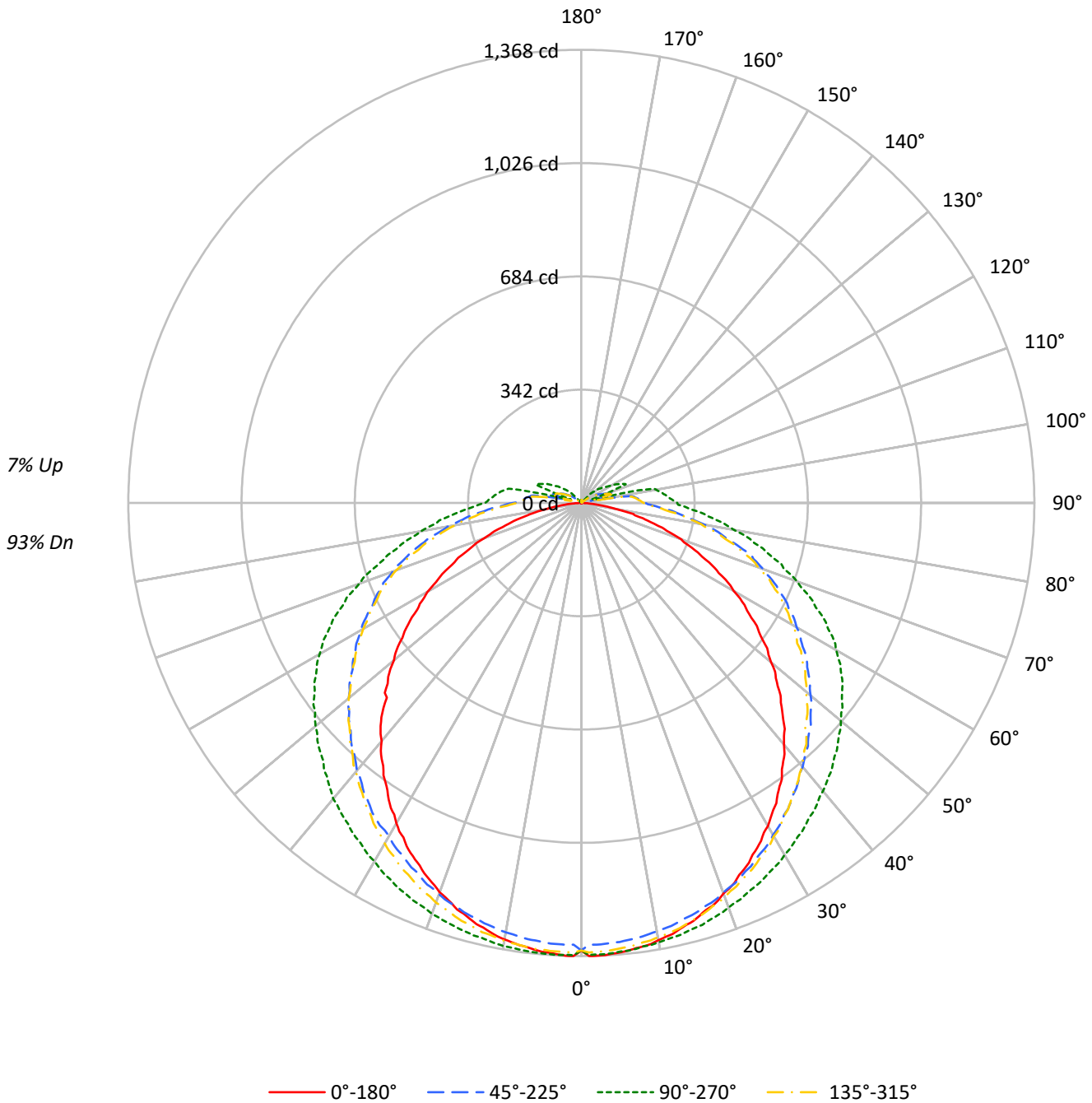
Lumens per Lamp: N/A
Luminaire Lumens: 4952.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.11')
CIE Type: Direct

Input Watts (W): 41.5
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: P571647
CATALOG NUMBER: 4ST2L40SC3-5000K

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°	12465	12465	12465	12465
5°	12583	12191	12568	12241
10°	12494	11841	12473	11940
15°	12392	11537	12328	11649
20°	12202	11244	12163	11414
25°	12046	10997	11938	11188
30°	11819	10763	11713	10955
35°	11540	10574	11392	10811
40°	11209	10424	11056	10703
45°	10826	10287	10556	10484
50°	10403	10175	10270	10427
55°	10018	10116	9888	10335
60°	9361	9973	9458	10238
65°	8787	9728	8715	10041
70°	8064	9260	7869	9530
75°	6702	8674	6867	9034
80°	5029	8023	5052	8408
85°	2862	7483	2999	7776



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	2.6
10°-20°	368.1	7.4
20°-30°	563.9	11.4
30°-40°	695.0	14.0
40°-50°	750.4	15.2
50°-60°	731.0	14.8
60°-70°	640.1	12.9
70°-80°	475.9	9.6
80°-90°	276.0	5.6
90°-100°	158.5	3.2
100°-110°	58.3	1.2
110°-120°	60.1	1.2
120°-130°	31.8	0.6
130°-140°	8.6	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°	1059.9	21.4
0°-40°	1754.9	35.4
0°-60°	3236.3	65.4
0°-90°	4628.4	93.5
90°-120°	276.9	5.6
90°-150°	319.1	6.4
90°-180°	324.0	6.5
0°-180°	4952.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1351	1351	1351	1351	1351	
5°	1362	1359	1360	1365	1362	129
15°	1307	1328	1300	1341	1307	368
25°	1198	1267	1188	1289	1198	551
35°	1044	1183	1031	1210	1044	653
45°	852	1081	831	1102	852	658
55°	647	962	638	983	647	575
65°	426	800	422	826	426	420
75°	207	581	212	605	207	224
85°	35	371	37	385	35	44
90°	2	290	3	291	2	2
95°	1	258	2	263	1	1
105°	1	39	1	39	1	1
115°	0	137	2	135	0	1
125°	0	83	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: P571647
 CATALOG NUMBER: 4ST2L40SC3-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0
1°	1368.0	1303.3	1333.7	1371.5	1364.7	1341.7	1357.4	1356.2	1368.0	1303.3	1333.7
2°	1367.5	1302.8	1334.4	1370.8	1363.5	1340.0	1355.7	1355.7	1367.5	1302.8	1334.9
3°	1367.0	1302.3	1333.2	1370.3	1364.2	1338.2	1355.1	1354.6	1364.7	1301.7	1333.7
4°	1364.2	1300.6	1330.4	1369.2	1362.5	1337.7	1352.9	1352.3	1361.3	1299.5	1333.2
5°	1361.9	1298.3	1330.4	1367.5	1359.1	1336.0	1349.5	1349.0	1360.2	1297.2	1330.9
6°	1358.5	1296.7	1327.0	1364.7	1359.1	1332.1	1347.8	1347.3	1355.7	1296.0	1328.1
7°	1354.1	1292.7	1324.8	1362.5	1356.2	1330.9	1344.5	1343.3	1350.6	1291.6	1327.0
8°	1351.8	1289.4	1322.0	1360.2	1351.8	1327.0	1339.4	1337.2	1347.8	1286.6	1323.0
9°	1347.3	1285.4	1316.9	1356.2	1351.1	1323.0	1337.2	1333.2	1342.8	1283.6	1318.5
10°	1340.0	1279.8	1313.5	1354.1	1346.7	1320.8	1331.6	1329.8	1337.7	1278.1	1316.3
11°	1334.4	1276.3	1309.1	1350.6	1342.8	1316.9	1327.6	1322.5	1332.6	1271.9	1311.2
12°	1329.8	1269.1	1305.6	1345.5	1340.0	1311.9	1322.5	1314.1	1324.2	1263.4	1306.1
13°	1320.8	1261.1	1299.5	1342.8	1337.2	1307.9	1318.0	1310.7	1315.7	1259.5	1302.3
14°	1312.4	1257.3	1292.2	1336.6	1331.6	1303.3	1310.1	1301.7	1310.1	1255.6	1295.5
15°	1306.8	1248.8	1288.7	1329.8	1328.1	1297.8	1303.3	1292.2	1300.0	1247.2	1290.4
16°	1296.0	1243.7	1282.0	1325.8	1324.8	1292.2	1297.8	1286.6	1289.9	1237.6	1285.4
17°	1285.4	1236.4	1273.5	1319.2	1317.5	1287.6	1289.9	1277.5	1283.6	1231.3	1277.0
18°	1279.2	1226.9	1269.1	1311.2	1312.9	1280.3	1280.9	1265.7	1270.2	1224.0	1271.3
19°	1269.1	1217.9	1262.3	1309.6	1307.3	1275.3	1275.3	1258.9	1259.5	1212.8	1265.7
20°	1255.0	1211.1	1252.2	1301.1	1300.0	1268.5	1265.7	1250.0	1251.0	1203.2	1257.3
21°	1246.6	1199.9	1244.4	1294.4	1293.2	1261.1	1255.6	1235.3	1237.0	1196.5	1247.7
22°	1235.9	1189.2	1238.1	1289.4	1288.7	1255.6	1248.8	1226.9	1225.2	1186.3	1242.6
23°	1220.1	1181.9	1228.0	1279.8	1279.8	1247.2	1237.6	1216.2	1214.5	1172.9	1232.0
24°	1210.0	1168.4	1217.3	1271.9	1273.0	1239.8	1228.0	1202.7	1198.7	1165.6	1220.7
25°	1198.2	1156.5	1210.6	1266.2	1267.4	1233.1	1220.1	1194.8	1187.5	1153.2	1213.9
26°	1180.7	1148.7	1198.7	1255.0	1260.1	1223.5	1209.5	1178.5	1175.7	1138.5	1203.2
27°	1169.5	1134.0	1188.6	1246.0	1251.0	1219.6	1196.5	1165.0	1162.8	1130.1	1192.0
28°	1155.4	1121.1	1180.7	1239.8	1244.9	1211.7	1188.6	1154.9	1144.1	1117.8	1185.3
29°	1137.5	1112.2	1171.2	1228.0	1238.1	1204.4	1177.4	1138.0	1133.5	1102.0	1174.6
30°	1126.7	1099.1	1157.7	1218.4	1226.9	1192.6	1162.2	1123.9	1116.6	1091.9	1161.6
31°	1109.4	1083.4	1148.7	1206.0	1220.1	1186.3	1154.4	1112.7	1097.5	1078.9	1152.6
32°	1093.5	1072.8	1138.5	1198.7	1210.6	1176.2	1139.7	1094.1	1085.7	1062.6	1148.1
33°	1081.2	1062.6	1123.9	1189.8	1200.4	1165.0	1125.1	1080.1	1068.2	1055.9	1137.5
34°	1059.8	1041.8	1115.0	1180.2	1194.3	1158.2	1116.0	1067.2	1046.8	1037.3	1129.0
35°	1044.0	1030.6	1102.6	1170.1	1183.0	1147.6	1102.0	1047.5	1030.6	1022.7	1114.4
36°	1030.0	1015.9	1087.9	1160.0	1171.8	1135.2	1085.1	1031.6	1016.5	1012.0	1101.4
37°	1006.9	996.8	1078.4	1151.5	1165.6	1128.4	1076.1	1014.8	994.0	993.4	1092.5
38°	990.1	985.6	1064.9	1140.8	1155.4	1118.3	1063.2	1002.5	980.0	978.2	1076.1
39°	975.4	969.2	1049.1	1127.3	1142.5	1108.2	1048.5	981.0	962.5	966.9	1063.7
40°	951.8	949.0	1039.6	1120.0	1135.2	1100.9	1038.4	964.1	938.8	946.7	1054.1
41°	932.2	937.8	1025.5	1107.1	1125.6	1087.4	1021.0	950.7	924.2	930.4	1037.9
42°	918.1	921.4	1013.7	1093.0	1114.4	1076.1	1005.8	928.2	905.7	918.6	1024.3
43°	893.3	908.5	1003.0	1084.6	1107.1	1067.7	996.2	911.3	885.4	898.4	1014.2
44°	872.5	892.2	986.1	1072.2	1093.5	1052.5	977.7	897.3	860.1	882.6	1001.3



TEST NUMBER: P571647
 CATALOG NUMBER: 4ST2L40SC3-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	852.2	870.8	974.3	1057.0	1081.2	1040.1	955.7	870.8	830.9	860.7	984.4
46°	836.5	858.4	963.1	1048.0	1073.3	1025.5	945.1	857.9	825.3	847.1	969.8
47°	810.6	839.9	946.2	1035.6	1059.2	1016.5	933.8	843.8	800.0	830.9	960.3
48°	790.4	819.0	932.7	1020.4	1046.3	1004.1	919.1	820.7	784.7	817.9	942.8
49°	775.2	806.1	920.9	1008.1	1037.9	995.1	900.1	802.1	764.4	796.0	932.7
50°	748.2	787.6	903.4	999.0	1022.7	979.3	888.2	788.7	738.6	778.5	917.5
51°	727.3	765.6	887.7	985.0	1009.8	966.9	874.1	769.5	722.9	761.6	900.1
52°	711.6	748.2	876.9	969.2	1000.7	956.3	857.9	746.5	703.2	747.6	888.2
53°	684.6	733.5	859.0	959.1	985.0	945.1	846.6	734.1	676.2	725.7	873.1
54°	662.7	711.6	842.7	945.1	973.2	928.7	827.5	714.4	659.8	712.8	853.9
55°	646.9	697.6	831.9	928.2	962.5	918.1	811.7	691.9	638.5	694.1	842.7
56°	619.3	680.1	816.8	918.6	950.1	905.7	800.5	677.9	617.1	672.2	828.6
57°	596.8	661.5	797.1	904.0	934.3	889.3	777.5	659.8	590.0	644.6	812.9
58°	580.6	639.0	781.9	886.5	923.1	875.3	765.6	636.8	574.9	640.2	801.6
59°	559.1	625.6	770.7	875.3	904.5	865.2	754.3	623.3	553.5	618.2	783.1
60°	531.1	606.4	750.4	860.7	888.2	846.6	735.3	605.3	536.6	600.8	766.7
61°	514.7	593.0	738.1	848.3	876.9	832.6	720.1	582.2	510.2	587.2	755.5
62°	492.7	571.5	722.9	826.9	858.4	820.2	707.7	568.7	488.3	565.4	736.3
63°	465.2	553.0	703.2	810.1	835.9	798.8	688.0	551.8	471.9	546.8	720.6
64°	448.4	539.4	691.3	786.4	821.3	781.9	674.4	529.3	444.4	533.8	700.4
65°	425.9	517.5	674.4	772.3	800.5	767.9	662.1	516.9	422.4	515.2	689.1
66°	398.9	499.5	653.1	753.2	775.2	748.7	640.7	497.8	406.7	493.4	673.9
67°	382.0	486.1	640.2	731.8	759.4	724.5	623.8	480.5	378.6	480.5	653.1
68°	360.0	464.1	621.6	716.1	738.1	709.3	611.5	457.8	357.2	463.0	645.3
69°	332.4	447.2	599.1	690.3	710.5	688.5	587.9	444.4	340.3	440.4	623.8
70°	321.2	433.7	585.0	667.8	693.6	662.1	568.2	427.0	313.4	427.5	605.3
71°	293.7	412.3	565.4	651.4	671.6	645.8	554.6	413.5	292.0	410.7	591.8
72°	271.7	395.4	546.8	623.3	643.0	623.3	534.4	392.1	275.6	389.3	568.2
73°	255.4	383.1	536.6	600.3	631.2	594.0	510.2	375.2	248.7	376.9	549.0
74°	228.4	365.7	505.8	583.4	603.1	577.1	494.4	362.8	227.8	360.0	534.4
75°	207.0	345.3	484.3	554.6	580.6	555.2	473.1	343.1	212.1	339.8	510.2
76°	191.8	328.6	456.2	532.7	564.2	527.1	446.7	326.3	192.4	322.9	488.9
77°	165.9	315.0	439.9	515.9	536.1	510.8	430.3	313.4	166.5	310.5	473.1
78°	160.8	292.0	423.1	486.6	519.7	488.3	409.0	292.0	151.9	294.2	446.7
79°	132.2	273.4	402.2	464.6	496.2	466.9	382.0	273.4	133.3	280.7	424.7
80°	109.2	258.8	376.4	448.9	469.1	450.6	366.8	254.8	109.7	258.2	409.0
81°	91.7	234.0	353.3	427.0	447.7	424.2	344.8	240.7	96.8	240.7	382.5
82°	78.8	214.9	325.8	399.9	432.5	403.4	317.8	216.6	80.4	226.7	362.3
83°	63.0	200.2	309.9	384.2	406.2	388.7	307.1	202.0	60.7	203.0	346.0
84°	45.0	176.1	289.7	369.0	385.3	364.0	281.3	182.8	50.1	184.5	325.1
85°	35.4	162.6	275.1	347.6	370.8	342.6	256.5	160.3	37.1	169.9	298.1
86°	22.0	144.6	250.3	322.9	346.0	327.9	243.0	141.8	23.6	147.4	282.4
87°	13.5	123.2	231.2	303.1	326.3	302.6	223.3	127.7	18.5	130.5	262.1
88°	9.0	111.4	217.1	280.1	312.2	285.2	205.3	107.4	9.6	117.6	238.6
89°	4.0	96.8	200.8	268.9	292.0	271.7	195.2	93.3	5.1	98.4	225.0



TEST NUMBER: P571647
 CATALOG NUMBER: 4ST2L40SC3-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	2.3	91.2	192.9	263.2	289.7	257.1	187.9	87.7	3.3	86.7	206.5
91°	1.7	87.2	188.5	258.8	281.3	253.1	182.8	84.4	2.8	83.2	187.3
92°	2.3	81.6	184.5	252.0	275.1	248.0	178.9	80.4	1.7	77.1	182.3
93°	2.3	77.6	176.7	246.4	267.7	244.7	173.2	77.6	2.3	74.3	176.7
94°	1.7	74.8	172.7	240.2	263.2	237.9	168.2	72.6	2.3	70.8	172.7
95°	1.1	51.2	168.2	236.3	257.6	234.0	165.4	47.8	1.7	57.9	169.9
96°	1.7	30.4	162.6	230.6	250.9	229.0	159.2	36.0	1.7	35.4	163.1
97°	1.7	27.0	159.8	223.9	246.4	222.7	154.2	29.8	1.7	31.5	157.5
98°	1.7	28.6	150.7	219.9	241.4	218.9	145.7	34.3	1.7	32.1	154.7
99°	1.1	41.0	105.2	213.2	234.0	213.8	101.3	41.0	1.7	39.9	142.9
100°	1.1	40.5	67.0	207.0	229.5	206.5	48.3	39.4	1.1	38.9	111.4
101°	1.1	38.2	33.2	187.3	223.9	199.7	38.9	37.1	1.1	36.6	81.0
102°	1.1	36.0	31.5	128.9	192.9	165.4	34.9	34.9	1.7	34.9	44.5
103°	1.1	33.2	28.6	72.6	157.5	104.6	32.6	32.6	1.7	33.2	40.5
104°	1.1	31.5	30.4	33.2	90.5	50.6	34.9	30.4	1.7	31.5	38.9
105°	1.1	28.6	55.1	27.6	38.9	34.3	64.2	29.3	1.1	28.6	45.5
106°	1.1	27.6	80.4	26.5	34.3	33.2	94.0	27.0	1.1	27.0	68.7
107°	0.5	25.3	97.9	25.3	32.6	30.9	92.3	24.8	1.1	24.2	88.3
108°	1.1	22.5	93.3	30.9	32.1	29.3	89.5	23.6	1.1	22.5	91.2
109°	0.5	20.8	90.5	52.3	31.5	40.5	85.5	21.4	1.1	20.2	87.2
110°	1.1	19.2	84.9	88.9	52.3	79.9	82.1	18.5	1.1	17.4	84.4
111°	1.1	15.2	79.3	131.7	87.2	108.0	75.4	16.9	1.1	11.3	79.3
112°	1.1	10.7	75.4	130.5	116.5	128.9	70.3	10.1	0.5	7.3	76.5
113°	1.1	5.1	69.8	125.4	145.7	126.0	67.0	4.5	1.1	4.5	73.7
114°	1.1	3.3	65.8	120.9	140.6	119.8	62.4	4.0	1.1	4.0	70.8
115°	0.5	3.3	63.0	117.0	137.3	114.8	59.1	3.3	1.7	3.3	66.4
116°	0.5	2.8	60.2	110.2	131.7	108.0	57.9	2.8	1.1	2.8	63.5
117°	0.5	1.7	56.3	104.1	124.3	103.5	55.1	2.3	1.1	1.7	60.7
118°	1.1	1.7	54.6	99.0	120.4	97.9	52.3	1.7	1.1	1.7	55.7
119°	0.5	1.7	51.2	92.3	113.0	93.3	49.5	1.7	1.1	1.7	54.0
120°	0.5	1.7	46.7	88.3	105.7	88.3	47.3	1.7	1.1	1.7	49.5
121°	1.1	1.7	43.9	82.7	100.7	82.1	43.3	1.7	1.1	1.7	46.1
122°	1.1	1.1	41.7	79.9	95.1	78.8	40.5	1.7	1.1	1.7	43.3
123°	0.5	1.1	37.1	75.9	89.5	75.9	37.7	0.5	1.1	1.7	39.4
124°	0.5	1.1	34.3	71.5	86.7	71.5	33.2	1.7	1.7	1.7	35.4
125°	0.5	1.1	32.1	68.7	82.7	68.0	30.4	1.1	1.1	1.1	33.8
126°	1.1	0.5	23.6	64.7	77.1	65.2	23.0	1.7	1.1	1.1	25.8
127°	1.1	1.7	14.1	60.7	74.8	61.4	11.3	1.1	1.1	1.1	16.9
128°	0.5	1.1	7.9	57.9	69.8	57.4	7.9	1.1	1.1	1.1	10.7
129°	1.1	1.1	4.5	52.9	67.5	55.1	5.1	1.1	1.1	1.7	5.6
130°	1.1	1.1	4.0	48.3	62.4	50.6	4.0	1.1	1.1	1.7	5.6
131°	1.1	1.7	4.0	45.5	57.9	46.1	4.0	1.7	1.7	1.1	4.5
132°	1.1	1.1	2.8	40.5	51.8	43.3	3.3	1.7	1.7	1.7	3.3
133°	1.1	1.1	2.3	36.6	50.6	39.4	2.8	2.3	1.7	1.7	2.8
134°	1.1	1.7	1.7	27.0	45.0	28.6	2.3	1.1	1.1	1.7	2.8



TEST NUMBER: P571647
 CATALOG NUMBER: 4ST2L40SC3-5000K

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	20.8	39.4	20.8	1.7	1.7	1.7	1.7	2.3
136°	1.7	1.1	2.3	7.3	31.5	10.1	1.7	1.7	1.1	1.7	2.3
137°	1.1	1.1	1.7	5.1	15.7	6.1	1.7	1.7	1.7	1.7	2.3
138°	1.7	1.7	1.7	4.5	8.4	5.6	1.7	1.7	1.7	1.7	2.3
139°	1.7	1.7	1.7	4.5	6.1	4.5	2.3	1.7	1.7	2.3	1.7
140°	1.7	1.7	2.3	3.3	5.1	4.0	2.8	2.3	2.3	1.7	2.3
141°	1.7	2.3	2.3	2.8	4.5	3.3	2.3	2.3	2.3	2.8	2.8
142°	2.3	2.3	2.3	2.8	4.5	3.3	2.3	2.3	1.7	2.8	2.8
143°	2.3	2.3	2.3	2.3	3.3	2.8	2.3	2.3	2.3	2.3	2.8
144°	2.3	2.8	2.8	2.8	2.8	2.8	2.3	2.3	2.8	2.8	2.8
145°	2.8	2.3	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	5.1	5.1	4.0	4.5	4.0	4.0	4.5	4.5	4.5	4.0
156°	4.5	4.5	5.1	5.1	4.5	4.5	4.0	4.5	4.5	4.5	4.0
157°	5.1	5.1	5.1	5.1	5.1	4.0	4.5	5.1	4.5	4.5	4.5
158°	5.1	5.6	5.1	5.1	5.6	4.5	5.1	4.5	5.1	5.1	4.5
159°	5.6	5.6	5.1	5.6	5.6	5.1	5.1	5.1	5.1	5.1	5.1
160°	5.6	5.6	6.1	5.1	5.6	4.5	5.1	5.1	5.6	5.1	5.1
161°	5.6	6.1	5.6	6.1	5.6	5.1	5.6	5.1	5.6	5.6	5.1
162°	6.1	6.1	6.1	6.1	6.1	5.1	5.6	5.1	5.6	5.1	5.1
163°	6.1	6.1	6.8	6.1	6.1	5.6	5.6	6.1	5.6	5.6	5.6
164°	6.8	6.8	7.3	6.8	6.8	6.1	6.1	5.6	6.1	6.1	5.1
165°	7.3	6.8	7.3	7.3	6.1	5.6	6.1	6.1	6.1	6.1	6.1
166°	6.8	7.3	7.3	7.3	6.8	6.1	6.1	6.8	6.1	6.1	5.6
167°	7.3	7.3	7.9	7.3	7.3	6.1	7.3	6.8	6.1	6.8	6.8
168°	7.3	7.3	7.9	7.9	7.3	6.1	7.3	6.8	6.8	6.8	6.8
169°	7.9	8.4	8.4	8.4	7.9	6.8	6.8	7.3	7.3	6.8	6.8
170°	7.9	7.9	9.0	8.4	7.9	7.3	7.9	7.3	7.9	7.3	6.8
171°	8.4	8.4	9.0	8.4	8.4	7.9	7.3	7.3	7.3	7.9	7.3
172°	8.4	7.9	8.4	8.4	7.9	8.4	7.9	7.9	7.3	7.3	7.3
173°	9.0	9.0	9.0	9.0	7.9	8.4	7.9	8.4	7.9	7.9	7.9
174°	8.4	9.0	9.0	9.0	8.4	8.4	8.4	7.9	7.9	7.9	7.9
175°	9.0	9.0	9.0	9.0	9.0	8.4	8.4	8.4	7.9	8.4	8.4
176°	8.4	9.0	8.4	8.4	8.4	8.4	8.4	8.4	7.9	8.4	7.9
177°	9.0	9.0	9.0	9.0	9.0	8.4	7.9	7.9	8.4	8.4	7.9
178°	8.4	8.4	9.0	9.0	9.0	7.9	8.4	8.4	8.4	8.4	7.9
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: P571647
CATALOG NUMBER: 4ST2L40SC3-5000K

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: P571647
 CATALOG NUMBER: 4ST2L40SC3-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1351.0	1351.0	1351.0	1351.0	1351.0	1351.0
1°	1372.0	1365.8	1341.7	1356.9	1357.4	1368.0
2°	1373.1	1364.7	1341.7	1356.9	1357.4	1367.5
3°	1372.0	1366.4	1342.2	1355.7	1356.9	1367.0
4°	1372.0	1365.8	1341.0	1355.7	1356.2	1364.2
5°	1371.5	1364.7	1340.0	1353.4	1353.4	1361.9
6°	1369.2	1364.2	1340.0	1353.4	1350.6	1358.5
7°	1367.0	1363.0	1337.7	1350.6	1348.3	1354.1
8°	1364.2	1360.7	1336.0	1347.3	1343.9	1351.8
9°	1363.0	1359.1	1333.2	1345.0	1338.8	1347.3
10°	1359.1	1357.9	1332.1	1342.2	1336.6	1340.0
11°	1355.1	1355.1	1328.6	1337.2	1330.9	1334.4
12°	1352.9	1350.6	1324.2	1332.6	1323.6	1329.8
13°	1349.0	1346.7	1322.5	1329.8	1318.5	1320.8
14°	1343.9	1345.5	1317.5	1323.6	1312.9	1312.4
15°	1340.5	1341.0	1312.4	1316.3	1304.5	1306.8
16°	1336.0	1337.7	1309.6	1312.4	1297.8	1296.0
17°	1331.6	1332.6	1305.1	1305.1	1290.4	1285.4
18°	1326.5	1328.6	1298.3	1296.7	1281.4	1279.2
19°	1319.7	1323.6	1296.7	1289.9	1275.3	1269.1
20°	1312.9	1319.7	1289.4	1283.6	1263.4	1255.0
21°	1305.6	1311.9	1283.1	1273.5	1252.8	1246.6
22°	1301.7	1307.3	1279.2	1266.2	1244.9	1235.9
23°	1292.7	1302.8	1270.2	1259.5	1231.3	1220.1
24°	1283.1	1295.0	1262.3	1248.2	1220.7	1210.0
25°	1277.5	1289.4	1258.4	1237.6	1211.1	1198.2
26°	1269.7	1282.6	1248.8	1230.3	1194.8	1180.7
27°	1258.9	1273.5	1239.8	1219.6	1183.5	1169.5
28°	1253.3	1268.5	1233.6	1207.2	1173.4	1155.4
29°	1245.4	1259.5	1224.7	1199.4	1156.5	1137.5
30°	1235.3	1248.8	1215.1	1187.5	1143.1	1126.7
31°	1229.7	1244.4	1204.4	1173.4	1131.9	1109.4
32°	1217.9	1234.8	1197.1	1163.8	1116.6	1093.5
33°	1207.8	1224.0	1189.2	1152.6	1106.5	1081.2
34°	1200.4	1217.9	1178.5	1136.3	1086.2	1059.8
35°	1187.5	1209.5	1172.3	1126.7	1070.0	1044.0
36°	1176.9	1198.2	1159.4	1114.4	1049.7	1030.0
37°	1168.9	1190.9	1148.7	1098.1	1037.3	1006.9
38°	1156.0	1183.0	1142.5	1087.4	1019.9	990.1
39°	1145.3	1172.3	1135.2	1073.8	997.9	975.4
40°	1136.3	1165.6	1118.8	1058.7	985.0	951.8
41°	1122.8	1152.1	1111.0	1048.5	967.6	932.2
42°	1112.2	1140.8	1097.0	1031.1	945.6	918.1
43°	1103.1	1127.3	1087.4	1015.9	931.5	893.3
44°	1087.4	1118.8	1076.6	1005.8	914.7	872.5



TEST NUMBER: P571647
 CATALOG NUMBER: 4ST2L40SC3-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1076.1	1102.0	1062.1	987.3	892.8	852.2
46°	1067.2	1092.5	1050.8	973.2	878.1	836.5
47°	1053.6	1083.4	1041.2	961.9	860.1	810.6
48°	1037.9	1072.2	1028.8	943.4	839.9	790.4
49°	1028.8	1057.0	1012.6	929.3	816.8	775.2
50°	1013.7	1048.0	1003.5	917.5	803.3	748.2
51°	999.0	1035.6	990.1	897.8	784.1	727.3
52°	989.4	1019.9	973.7	882.6	760.6	711.6
53°	974.3	1013.1	964.8	870.8	745.4	684.6
54°	958.0	997.4	950.7	854.4	727.3	662.7
55°	947.3	983.3	933.8	835.4	703.7	646.9
56°	934.3	973.2	924.2	823.5	689.1	619.3
57°	916.3	955.7	910.7	807.8	670.6	596.8
58°	905.1	942.3	893.3	788.1	647.4	580.6
59°	892.2	930.4	886.5	776.3	632.9	559.1
60°	876.4	911.8	869.1	761.1	614.3	531.1
61°	866.3	896.1	853.4	741.4	600.8	514.7
62°	844.3	882.0	842.7	725.7	578.3	492.7
63°	826.9	860.1	822.5	714.4	558.1	465.2
64°	805.0	841.0	805.0	694.1	540.6	448.4
65°	790.4	826.3	791.5	678.4	526.5	425.9
66°	771.2	802.1	769.0	666.0	504.0	398.9
67°	746.5	779.1	749.3	649.1	486.6	382.0
68°	730.7	764.4	734.6	627.2	472.5	360.0
69°	710.5	737.5	708.2	613.7	450.0	332.4
70°	682.9	713.8	686.8	595.7	432.5	321.2
71°	665.5	696.4	670.6	571.5	418.6	293.7
72°	643.5	672.8	649.1	556.9	397.1	271.7
73°	620.5	644.1	619.9	537.7	378.6	255.4
74°	603.6	621.6	602.4	511.9	366.2	228.4
75°	574.9	604.7	579.9	496.2	344.8	207.0
76°	553.0	576.0	551.3	475.3	327.4	191.8
77°	536.1	558.6	534.4	447.7	315.0	165.9
78°	507.4	536.1	511.9	431.5	298.1	160.8
79°	484.3	509.1	484.3	409.5	276.2	132.2
80°	467.4	491.6	468.1	387.5	261.6	109.2
81°	439.9	469.7	446.1	371.3	243.6	91.7
82°	417.9	442.7	418.6	343.7	219.4	78.8
83°	402.2	432.0	402.7	322.3	203.7	63.0
84°	375.8	405.6	382.5	306.6	185.1	45.0
85°	355.5	385.3	362.8	279.6	170.4	35.4
86°	340.3	365.0	338.0	264.4	147.4	22.0
87°	320.6	345.3	324.0	245.2	129.4	13.5
88°	296.5	325.1	304.9	223.3	109.2	9.0
89°	282.4	310.5	290.2	210.4	98.4	4.0



TEST NUMBER: P571647
 CATALOG NUMBER: 4ST2L40SC3-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	264.4	290.9	266.7	192.9	87.2	2.3
91°	254.3	284.1	256.5	184.0	83.9	1.7
92°	250.3	280.1	249.8	178.9	78.2	2.3
93°	241.9	272.3	245.9	175.5	74.8	2.3
94°	237.4	267.2	239.6	169.3	66.4	1.7
95°	234.0	263.2	232.9	164.3	48.3	1.1
96°	229.5	256.5	229.0	160.8	29.3	1.7
97°	224.5	250.3	223.9	156.4	26.5	1.7
98°	220.5	245.9	216.6	138.3	32.1	1.7
99°	213.8	238.6	213.2	110.8	38.9	1.1
100°	203.7	232.3	207.0	63.5	36.6	1.1
101°	182.8	223.9	182.8	35.4	36.0	1.1
102°	114.2	188.5	150.2	33.2	34.3	1.1
103°	74.8	123.8	84.4	30.9	32.1	1.1
104°	45.0	81.6	36.0	45.5	30.4	1.1
105°	37.1	38.9	31.5	66.4	28.1	1.1
106°	37.1	35.4	29.3	95.1	28.1	1.1
107°	35.4	34.3	27.6	93.3	24.8	0.5
108°	34.3	33.2	31.5	92.3	21.4	1.1
109°	45.0	44.5	64.2	85.5	19.7	0.5
110°	73.7	68.0	100.7	81.6	16.9	1.1
111°	108.5	105.7	125.4	79.3	9.6	1.1
112°	129.4	147.4	126.6	75.4	6.1	1.1
113°	125.4	147.4	121.5	71.5	4.5	1.1
114°	121.5	141.8	117.6	68.7	2.8	1.1
115°	116.5	135.0	113.7	64.2	2.8	0.5
116°	113.0	131.7	108.0	60.7	2.3	0.5
117°	107.4	125.4	104.6	57.9	2.3	0.5
118°	103.5	120.9	100.7	52.9	1.7	1.1
119°	99.6	117.6	95.6	50.1	1.7	0.5
120°	95.1	111.4	91.7	47.8	1.7	0.5
121°	90.5	105.7	87.7	43.3	1.7	1.1
122°	86.7	101.3	82.1	39.9	1.7	1.1
123°	82.1	95.6	78.8	37.1	1.1	0.5
124°	76.5	90.5	74.3	33.8	1.1	0.5
125°	73.7	87.2	70.8	25.8	1.7	0.5
126°	68.0	81.6	67.5	19.7	1.1	1.1
127°	63.5	75.9	61.9	10.1	1.1	1.1
128°	60.2	73.1	57.4	5.6	1.1	0.5
129°	56.3	65.8	54.0	4.5	1.1	1.1
130°	51.2	61.9	49.0	4.0	1.1	1.1
131°	47.8	58.5	44.5	3.3	0.5	1.1
132°	43.3	53.4	41.0	2.8	1.7	1.1
133°	35.4	47.8	30.4	2.8	1.7	1.1
134°	28.6	44.5	19.7	2.3	1.1	1.1



TEST NUMBER: P571647
 CATALOG NUMBER: 4ST2L40SC3-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	16.9	35.4	12.9	1.7	1.1	1.1
136°	8.4	20.8	6.1	1.7	1.7	1.7
137°	6.1	12.9	5.1	1.7	1.7	1.1
138°	5.6	7.9	5.6	1.7	2.3	1.7
139°	4.5	6.1	5.1	1.7	2.3	1.7
140°	4.0	5.1	3.3	2.3	1.7	1.7
141°	3.3	4.5	2.8	1.7	2.3	1.7
142°	2.8	4.0	2.8	2.3	2.3	2.3
143°	2.3	3.3	2.8	2.3	2.3	2.3
144°	2.8	2.8	2.8	2.8	2.8	2.3
145°	2.8	2.3	2.3	2.8	2.3	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	5.1	4.5	5.1	5.1	4.5
157°	4.5	5.1	5.6	5.1	5.1	5.1
158°	5.1	4.5	4.5	5.1	5.6	5.1
159°	5.1	5.1	4.5	5.1	5.6	5.6
160°	4.5	5.1	5.6	5.6	5.6	5.6
161°	5.6	5.6	5.6	5.6	5.6	5.6
162°	5.1	5.1	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	6.8	6.8
165°	5.1	6.1	6.8	6.8	6.8	7.3
166°	6.1	6.1	6.8	6.8	7.3	6.8
167°	6.1	6.8	6.8	7.3	7.3	7.3
168°	6.8	6.8	7.3	7.3	7.9	7.3
169°	7.3	7.3	7.9	7.9	7.9	7.9
170°	7.3	7.3	7.3	7.3	7.9	7.9
171°	7.3	7.9	7.9	7.3	7.9	8.4
172°	7.3	8.4	7.9	7.9	7.9	8.4
173°	7.9	8.4	7.9	8.4	7.9	9.0
174°	7.9	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	7.9	8.4	9.0	8.4
177°	7.9	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: P571647
CATALOG NUMBER: 4ST2L40SC3-5000K

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)