

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: P571645

Luminaire Tested: **4ST2L40SC3-3500K**

Issue Date: 3/18/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P571645  
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: 4ST2L40SC3-3500K  
Description: 4 FOOT ST2 STIPLIGHT WITH 3500K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

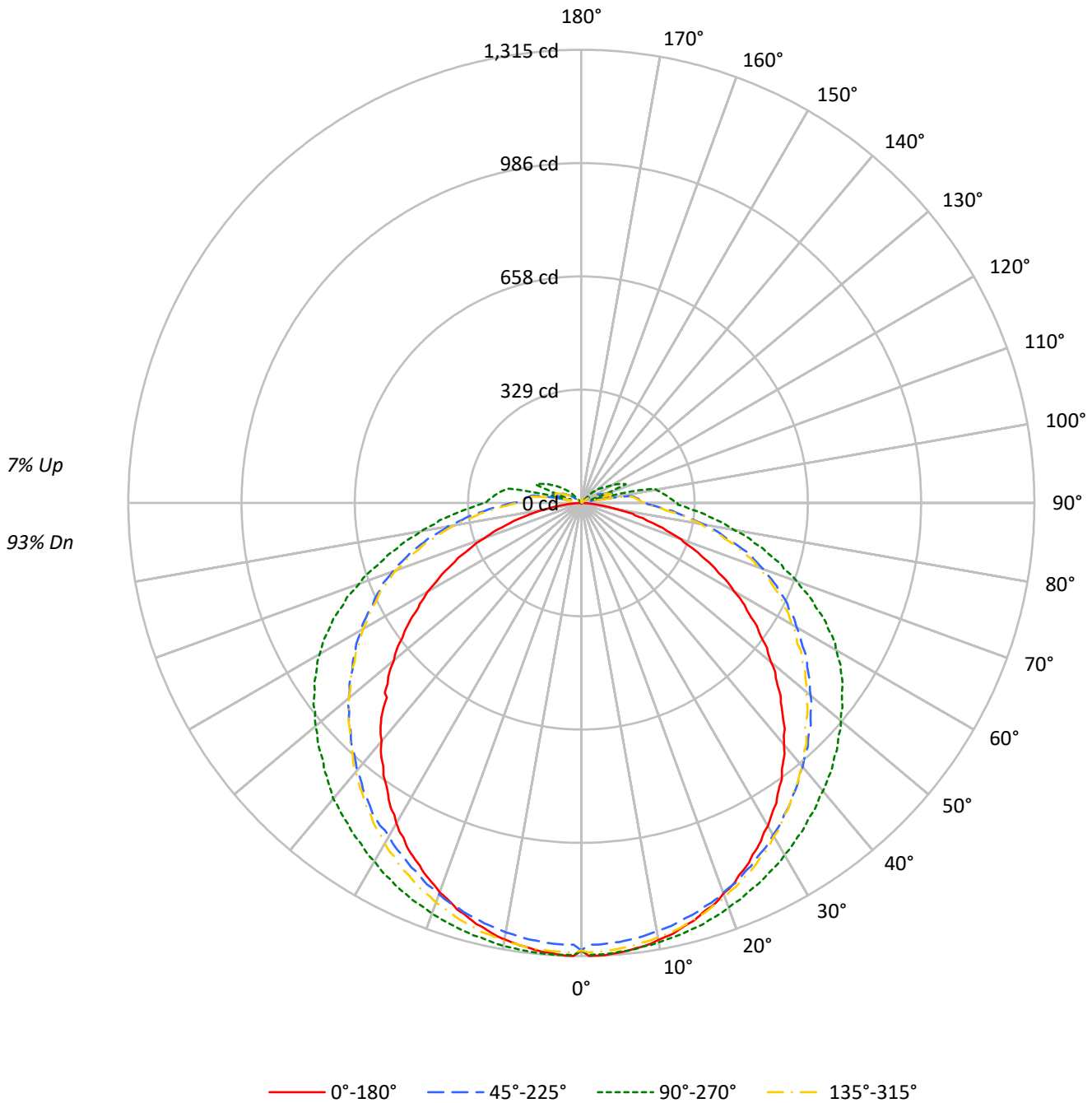
Lumens per Lamp: N/A  
Luminaire Lumens: 4760.0 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.11')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	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°	11982	11982	11982	11982
5°	12096	11718	12081	11767
10°	12009	11382	11989	11477
15°	11911	11090	11850	11198
20°	11729	10808	11691	10971
25°	11578	10571	11476	10754
30°	11360	10345	11258	10530
35°	11092	10164	10950	10392
40°	10774	10020	10627	10288
45°	10406	9887	10145	10078
50°	10000	9780	9872	10023
55°	9629	9724	9504	9934
60°	8998	9587	9091	9842
65°	8447	9351	8379	9652
70°	7753	8901	7562	9161
75°	6443	8337	6601	8683
80°	4831	7714	4854	8083
85°	2748	7193	2886	7475



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.9	2.6
10°-20°	353.8	7.4
20°-30°	542.1	11.4
30°-40°	668.1	14.0
40°-50°	721.3	15.2
50°-60°	702.7	14.8
60°-70°	615.3	12.9
70°-80°	457.4	9.6
80°-90°	265.3	5.6
90°-100°	152.3	3.2
100°-110°	56.0	1.2
110°-120°	57.8	1.2
120°-130°	30.5	0.6
130°-140°	8.3	0.2
140°-150°	1.7	0.0
150°-160°	1.9	0.0
160°-170°	1.7	0.0
170°-180°	0.8	0.0
0°-30°	1018.8	21.4
0°-40°	1686.9	35.4
0°-60°	3110.8	65.4
0°-90°	4448.9	93.5
90°-120°	266.2	5.6
90°-150°	306.7	6.4
90°-180°	311.0	6.5
0°-180°	4760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1299	1299	1299	1299	1299	
5°	1309	1306	1308	1312	1309	124
15°	1256	1277	1250	1289	1256	354
25°	1152	1218	1142	1239	1152	530
35°	1004	1137	991	1163	1004	628
45°	819	1039	799	1059	819	633
55°	622	925	614	945	622	553
65°	409	770	406	794	409	404
75°	199	558	204	581	199	215
85°	34	356	36	370	34	42
90°	2	278	3	280	2	2
95°	1	248	2	253	1	1
105°	1	37	1	37	1	1
115°	0	132	2	130	0	1
125°	0	80	1	84	0	1
135°	1	38	2	34	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°	8	8	8	8	8	



TEST NUMBER: P571645  
 CATALOG NUMBER: 4ST2L40SC3-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7
1°	1315.0	1252.8	1282.0	1318.3	1311.8	1289.7	1304.8	1303.6	1315.0	1252.8	1282.0
2°	1314.5	1252.3	1282.6	1317.7	1310.7	1288.0	1303.1	1303.1	1314.5	1252.3	1283.1
3°	1314.0	1251.8	1281.5	1317.2	1311.3	1286.3	1302.6	1302.1	1311.8	1251.3	1282.0
4°	1311.3	1250.1	1278.8	1316.1	1309.6	1285.8	1300.4	1299.9	1308.5	1249.1	1281.5
5°	1309.1	1248.0	1278.8	1314.5	1306.4	1284.2	1297.2	1296.7	1307.5	1246.9	1279.3
6°	1305.8	1246.4	1275.6	1311.8	1306.4	1280.4	1295.6	1295.0	1303.1	1245.8	1276.6
7°	1301.6	1242.6	1273.4	1309.6	1303.6	1279.3	1292.3	1291.2	1298.2	1241.5	1275.6
8°	1299.4	1239.4	1270.7	1307.5	1299.4	1275.6	1287.5	1285.3	1295.6	1236.7	1271.8
9°	1295.0	1235.5	1265.9	1303.6	1298.8	1271.8	1285.3	1281.5	1290.7	1233.9	1267.4
10°	1288.0	1230.2	1262.5	1301.6	1294.5	1269.6	1279.9	1278.3	1285.8	1228.5	1265.2
11°	1282.6	1226.8	1258.3	1298.2	1290.7	1265.9	1276.1	1271.2	1281.0	1222.6	1260.4
12°	1278.3	1219.9	1255.0	1293.4	1288.0	1261.0	1271.2	1263.2	1272.9	1214.4	1255.5
13°	1269.6	1212.3	1249.1	1290.7	1285.3	1257.2	1266.9	1259.9	1264.7	1210.7	1251.8
14°	1261.5	1208.5	1242.1	1284.8	1279.9	1252.8	1259.3	1251.3	1259.3	1206.9	1245.3
15°	1256.1	1200.4	1238.7	1278.3	1276.6	1247.4	1252.8	1242.1	1249.6	1198.8	1240.4
16°	1245.8	1195.5	1232.3	1274.4	1273.4	1242.1	1247.4	1236.7	1239.9	1189.6	1235.5
17°	1235.5	1188.5	1224.2	1268.0	1266.4	1237.7	1239.9	1228.0	1233.9	1183.6	1227.5
18°	1229.6	1179.3	1219.9	1260.4	1262.0	1230.7	1231.2	1216.6	1220.9	1176.6	1222.0
19°	1219.9	1170.7	1213.4	1258.8	1256.6	1225.8	1225.8	1210.1	1210.7	1165.8	1216.6
20°	1206.4	1164.1	1203.7	1250.6	1249.6	1219.3	1216.6	1201.5	1202.5	1156.6	1208.5
21°	1198.3	1153.4	1196.1	1244.2	1243.1	1212.3	1206.9	1187.4	1189.1	1150.1	1199.3
22°	1187.9	1143.1	1190.1	1239.4	1238.7	1206.9	1200.4	1179.3	1177.7	1140.3	1194.5
23°	1172.8	1136.1	1180.4	1230.2	1230.2	1198.8	1189.6	1169.0	1167.4	1127.4	1184.2
24°	1163.1	1123.1	1170.1	1222.6	1223.6	1191.8	1180.4	1156.1	1152.2	1120.4	1173.3
25°	1151.7	1111.7	1163.6	1217.1	1218.3	1185.2	1172.8	1148.5	1141.5	1108.5	1166.8
26°	1135.0	1104.1	1152.2	1206.4	1211.2	1176.0	1162.6	1132.8	1130.1	1094.4	1156.6
27°	1124.2	1090.0	1142.5	1197.7	1202.5	1172.3	1150.1	1119.8	1117.7	1086.3	1145.8
28°	1110.6	1077.6	1135.0	1191.8	1196.6	1164.8	1142.5	1110.1	1099.8	1074.4	1139.3
29°	1093.4	1069.0	1125.7	1180.4	1190.1	1157.7	1131.7	1093.9	1089.5	1059.3	1129.1
30°	1083.0	1056.5	1112.8	1171.2	1179.3	1146.3	1117.2	1080.3	1073.3	1049.6	1116.5
31°	1066.3	1041.4	1104.1	1159.3	1172.8	1140.3	1109.6	1069.6	1055.0	1037.1	1107.9
32°	1051.1	1031.2	1094.4	1152.2	1163.6	1130.6	1095.5	1051.7	1043.6	1021.4	1103.6
33°	1039.2	1021.4	1080.3	1143.6	1153.9	1119.8	1081.5	1038.2	1026.8	1014.9	1093.4
34°	1018.7	1001.4	1071.7	1134.4	1148.0	1113.3	1072.8	1025.8	1006.2	997.1	1085.2
35°	1003.5	990.6	1059.8	1124.7	1137.1	1103.1	1059.3	1006.8	990.6	983.0	1071.2
36°	990.1	976.5	1045.8	1115.0	1126.4	1091.2	1043.1	991.6	977.0	972.8	1058.7
37°	967.8	958.1	1036.5	1106.8	1120.4	1084.7	1034.4	975.5	955.4	954.9	1050.1
38°	951.7	947.3	1023.6	1096.6	1110.6	1074.9	1022.0	963.6	942.0	940.3	1034.4
39°	937.6	931.6	1008.4	1083.6	1098.2	1065.2	1007.9	943.0	925.2	929.4	1022.5
40°	914.9	912.2	999.3	1076.6	1091.2	1058.2	998.2	926.8	902.4	910.0	1013.3
41°	896.0	901.4	985.7	1064.2	1082.0	1045.2	981.4	913.8	888.4	894.4	997.6
42°	882.5	885.7	974.4	1050.6	1071.2	1034.4	966.8	892.2	870.6	883.0	984.6
43°	858.7	873.3	964.1	1042.5	1064.2	1026.3	957.6	875.9	851.1	863.5	974.9
44°	838.7	857.6	947.9	1030.6	1051.1	1011.7	939.8	862.5	826.8	848.4	962.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	819.1	837.0	936.5	1016.1	1039.2	999.8	918.7	837.0	798.6	827.3	946.2
46°	804.0	825.1	925.7	1007.4	1031.7	985.7	908.4	824.6	793.3	814.3	932.2
47°	779.2	807.3	909.5	995.5	1018.1	977.0	897.6	811.1	768.9	798.6	923.0
48°	759.7	787.3	896.5	980.9	1005.7	965.1	883.5	788.9	754.3	786.2	906.3
49°	745.1	774.8	885.2	969.0	997.6	956.6	865.2	771.0	734.8	765.1	896.5
50°	719.2	757.0	868.4	960.3	983.0	941.3	853.8	758.1	710.0	748.4	881.9
51°	699.1	735.9	853.3	946.8	970.6	929.4	840.2	739.7	694.9	732.1	865.2
52°	684.0	719.2	842.9	931.6	961.9	919.2	824.6	717.5	675.9	718.7	853.8
53°	658.0	705.1	825.7	921.9	946.8	908.4	813.8	705.6	649.9	697.5	839.2
54°	637.0	684.0	810.0	908.4	935.4	892.7	795.4	686.7	634.2	685.1	820.8
55°	621.8	670.5	799.7	892.2	925.2	882.5	780.2	665.1	613.7	667.2	810.0
56°	595.3	653.8	785.1	883.0	913.3	870.6	769.5	651.6	593.1	646.1	796.5
57°	573.7	635.9	766.2	868.9	898.1	854.8	747.3	634.2	567.2	619.6	781.4
58°	558.1	614.2	751.6	852.1	887.3	841.4	735.9	612.1	552.6	615.4	770.5
59°	537.5	601.3	740.8	841.4	869.4	831.7	725.1	599.1	532.1	594.3	752.7
60°	510.5	582.9	721.3	827.3	853.8	813.8	706.8	581.9	515.8	577.5	737.0
61°	494.7	570.0	709.4	815.4	842.9	800.3	692.2	559.6	490.4	564.5	726.2
62°	473.6	549.4	694.9	794.8	825.1	788.4	680.3	546.7	469.4	543.5	707.8
63°	447.1	531.6	675.9	778.7	803.5	767.8	661.3	530.4	453.7	525.6	692.7
64°	431.0	518.5	664.5	755.9	789.4	751.6	648.3	508.8	427.2	513.2	673.2
65°	409.4	497.4	648.3	742.4	769.5	738.1	636.4	496.9	406.1	495.2	662.4
66°	383.4	480.1	627.8	724.0	745.1	719.7	615.9	478.5	390.9	474.2	647.8
67°	367.1	467.2	615.4	703.4	729.9	696.4	599.7	461.8	363.9	461.8	627.8
68°	346.0	446.1	597.5	688.3	709.4	681.8	587.8	440.1	343.3	445.1	620.3
69°	319.5	429.9	575.9	663.5	683.0	661.8	565.1	427.2	327.1	423.3	599.7
70°	308.8	416.9	562.3	641.9	666.7	636.4	546.2	410.4	301.2	410.9	581.9
71°	282.3	396.3	543.5	626.1	645.6	620.8	533.1	397.5	280.6	394.8	568.8
72°	261.2	380.1	525.6	599.1	618.1	599.1	513.7	376.9	264.9	374.2	546.2
73°	245.5	368.3	515.8	577.0	606.7	571.0	490.4	360.6	239.0	362.3	527.7
74°	219.6	351.5	486.1	560.8	579.7	554.7	475.3	348.7	219.0	346.0	513.7
75°	199.0	332.0	465.6	533.1	558.1	533.6	454.8	329.8	203.9	326.6	490.4
76°	184.4	315.8	438.5	512.0	542.3	506.6	429.3	313.6	184.9	310.3	469.9
77°	159.5	302.8	422.8	495.9	515.3	491.0	413.6	301.2	160.1	298.4	454.8
78°	154.6	280.6	406.7	467.7	499.6	469.4	393.1	280.6	146.0	282.8	429.3
79°	127.1	262.8	386.6	446.6	476.9	448.8	367.1	262.8	128.1	269.8	408.2
80°	104.9	248.8	361.8	431.5	451.0	433.2	352.6	244.9	105.4	248.1	393.1
81°	88.2	225.0	339.6	410.4	430.4	407.7	331.4	231.4	93.0	231.4	367.7
82°	75.7	206.5	313.1	384.4	415.8	387.7	305.5	208.2	77.3	217.9	348.2
83°	60.5	192.5	297.9	369.3	390.4	373.7	295.2	194.1	58.4	195.2	332.6
84°	43.3	169.3	278.5	354.7	370.4	349.9	270.4	175.7	48.1	177.4	312.5
85°	34.0	156.3	264.4	334.1	356.4	329.3	246.6	154.1	35.7	163.3	286.5
86°	21.1	139.0	240.6	310.3	332.6	315.2	233.6	136.3	22.7	141.7	271.4
87°	12.9	118.4	222.3	291.4	313.6	290.9	214.6	122.7	17.8	125.4	252.0
88°	8.7	107.1	208.7	269.3	300.1	274.1	197.3	103.3	9.2	113.0	229.3
89°	3.8	93.0	193.0	258.5	280.6	261.2	187.6	89.7	4.9	94.6	216.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	2.2	87.6	185.4	253.0	278.5	247.1	180.6	84.3	3.2	83.3	198.5
91°	1.7	83.8	181.2	248.8	270.4	243.3	175.7	81.1	2.7	80.0	180.1
92°	2.2	78.4	177.4	242.2	264.4	238.4	172.0	77.3	1.7	74.1	175.2
93°	2.2	74.6	169.8	236.9	257.4	235.2	166.5	74.6	2.2	71.4	169.8
94°	1.7	71.9	166.0	230.9	253.0	228.7	161.6	69.7	2.2	68.1	166.0
95°	1.0	49.3	161.6	227.1	247.6	225.0	158.9	45.9	1.7	55.7	163.3
96°	1.7	29.2	156.3	221.7	241.2	220.1	153.0	34.6	1.7	34.0	156.8
97°	1.7	26.0	153.6	215.2	236.9	214.1	148.2	28.7	1.7	30.3	151.4
98°	1.7	27.5	144.9	211.4	232.0	210.4	140.0	33.0	1.7	30.8	148.7
99°	1.0	39.4	101.1	204.9	225.0	205.5	97.4	39.4	1.7	38.4	137.3
100°	1.0	38.9	64.4	199.0	220.6	198.5	46.5	37.9	1.0	37.4	107.1
101°	1.0	36.7	31.9	180.1	215.2	192.0	37.4	35.7	1.0	35.2	77.8
102°	1.0	34.6	30.3	123.9	185.4	158.9	33.5	33.5	1.7	33.5	42.7
103°	1.0	31.9	27.5	69.7	151.4	100.6	31.4	31.4	1.7	31.9	38.9
104°	1.0	30.3	29.2	31.9	87.0	48.6	33.5	29.2	1.7	30.3	37.4
105°	1.0	27.5	53.0	26.5	37.4	33.0	61.7	28.1	1.0	27.5	43.8
106°	1.0	26.5	77.3	25.5	33.0	31.9	90.3	26.0	1.0	26.0	66.0
107°	0.5	24.3	94.1	24.3	31.4	29.7	88.7	23.8	1.0	23.3	84.9
108°	1.0	21.6	89.7	29.7	30.8	28.1	86.0	22.7	1.0	21.6	87.6
109°	0.5	20.0	87.0	50.3	30.3	38.9	82.2	20.6	1.0	19.5	83.8
110°	1.0	18.4	81.6	85.5	50.3	76.8	79.0	17.8	1.0	16.8	81.1
111°	1.0	14.6	76.3	126.6	83.8	103.8	72.4	16.2	1.0	10.9	76.3
112°	1.0	10.2	72.4	125.4	112.0	123.9	67.6	9.7	0.5	7.0	73.6
113°	1.0	4.9	67.1	120.6	140.0	121.1	64.4	4.3	1.0	4.3	70.9
114°	1.0	3.2	63.2	116.2	135.1	115.2	60.0	3.8	1.0	3.8	68.1
115°	0.5	3.2	60.5	112.5	131.9	110.3	56.8	3.2	1.7	3.2	63.8
116°	0.5	2.7	57.8	106.0	126.6	103.8	55.7	2.7	1.0	2.7	61.1
117°	0.5	1.7	54.1	100.1	119.5	99.4	53.0	2.2	1.0	1.7	58.4
118°	1.0	1.7	52.5	95.2	115.7	94.1	50.3	1.7	1.0	1.7	53.5
119°	0.5	1.7	49.3	88.7	108.7	89.7	47.6	1.7	1.0	1.7	51.9
120°	0.5	1.7	44.9	84.9	101.6	84.9	45.4	1.7	1.0	1.7	47.6
121°	1.0	1.7	42.2	79.5	96.8	79.0	41.6	1.7	1.0	1.7	44.3
122°	1.0	1.0	40.0	76.8	91.4	75.7	38.9	1.7	1.0	1.7	41.6
123°	0.5	1.0	35.7	73.0	86.0	73.0	36.2	0.5	1.0	1.7	37.9
124°	0.5	1.0	33.0	68.7	83.3	68.7	31.9	1.7	1.7	1.7	34.0
125°	0.5	1.0	30.8	66.0	79.5	65.4	29.2	1.0	1.0	1.0	32.5
126°	1.0	0.5	22.7	62.2	74.1	62.7	22.1	1.7	1.0	1.0	24.8
127°	1.0	1.7	13.6	58.4	71.9	59.0	10.9	1.0	1.0	1.0	16.2
128°	0.5	1.0	7.6	55.7	67.1	55.2	7.6	1.0	1.0	1.0	10.2
129°	1.0	1.0	4.3	50.8	64.9	53.0	4.9	1.0	1.0	1.7	5.4
130°	1.0	1.0	3.8	46.5	60.0	48.6	3.8	1.0	1.0	1.7	5.4
131°	1.0	1.7	3.8	43.8	55.7	44.3	3.8	1.7	1.7	1.0	4.3
132°	1.0	1.0	2.7	38.9	49.8	41.6	3.2	1.7	1.7	1.7	3.2
133°	1.0	1.0	2.2	35.2	48.6	37.9	2.7	2.2	1.7	1.7	2.7
134°	1.0	1.7	1.7	26.0	43.3	27.5	2.2	1.0	1.0	1.7	2.7





TEST NUMBER: P571645  
 CATALOG NUMBER: 4ST2L40SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.0	1.0	1.7	20.0	37.9	20.0	1.7	1.7	1.7	1.7	2.2
136°	1.7	1.0	2.2	7.0	30.3	9.7	1.7	1.7	1.0	1.7	2.2
137°	1.0	1.0	1.7	4.9	15.1	5.9	1.7	1.7	1.7	1.7	2.2
138°	1.7	1.7	1.7	4.3	8.1	5.4	1.7	1.7	1.7	1.7	2.2
139°	1.7	1.7	1.7	4.3	5.9	4.3	2.2	1.7	1.7	2.2	1.7
140°	1.7	1.7	2.2	3.2	4.9	3.8	2.7	2.2	2.2	1.7	2.2
141°	1.7	2.2	2.2	2.7	4.3	3.2	2.2	2.2	2.2	2.7	2.7
142°	2.2	2.2	2.2	2.7	4.3	3.2	2.2	2.2	1.7	2.7	2.7
143°	2.2	2.2	2.2	2.2	3.2	2.7	2.2	2.2	2.2	2.2	2.7
144°	2.2	2.7	2.7	2.7	2.7	2.7	2.2	2.2	2.7	2.7	2.7
145°	2.7	2.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
146°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.2	3.2	2.7
147°	2.7	2.7	2.7	2.7	3.2	2.7	3.2	2.7	2.7	2.7	2.7
148°	3.2	3.2	3.2	3.2	3.2	2.7	2.7	2.7	3.2	2.7	2.7
149°	3.2	3.2	3.8	3.8	3.8	3.2	2.7	2.7	3.2	3.2	3.2
150°	3.8	3.8	3.2	3.2	3.2	3.2	3.2	3.8	3.2	3.2	3.2
151°	3.8	3.8	3.2	3.8	3.8	3.2	3.8	3.8	3.8	3.2	3.2
152°	3.2	3.8	3.8	3.8	3.8	3.2	3.8	3.8	3.8	3.8	3.8
153°	4.3	4.3	3.8	3.8	4.3	3.8	3.8	3.2	3.8	3.8	3.8
154°	4.3	4.3	4.3	3.8	4.3	3.8	3.2	3.8	3.8	3.8	4.3
155°	4.3	4.9	4.9	3.8	4.3	3.8	3.8	4.3	4.3	4.3	3.8
156°	4.3	4.3	4.9	4.9	4.3	4.3	3.8	4.3	4.3	4.3	3.8
157°	4.9	4.9	4.9	4.9	4.9	3.8	4.3	4.9	4.3	4.3	4.3
158°	4.9	5.4	4.9	4.9	5.4	4.3	4.9	4.3	4.9	4.9	4.3
159°	5.4	5.4	4.9	5.4	5.4	4.9	4.9	4.9	4.9	4.9	4.9
160°	5.4	5.4	5.9	4.9	5.4	4.3	4.9	4.9	5.4	4.9	4.9
161°	5.4	5.9	5.4	5.9	5.4	4.9	5.4	4.9	5.4	5.4	4.9
162°	5.9	5.9	5.9	5.9	5.9	4.9	5.4	4.9	5.4	4.9	4.9
163°	5.9	5.9	6.5	5.9	5.9	5.4	5.4	5.9	5.4	5.4	5.4
164°	6.5	6.5	7.0	6.5	6.5	5.9	5.9	5.4	5.9	5.9	4.9
165°	7.0	6.5	7.0	7.0	5.9	5.4	5.9	5.9	5.9	5.9	5.9
166°	6.5	7.0	7.0	7.0	6.5	5.9	5.9	6.5	5.9	5.9	5.4
167°	7.0	7.0	7.6	7.0	7.0	5.9	7.0	6.5	5.9	6.5	6.5
168°	7.0	7.0	7.6	7.6	7.0	5.9	7.0	6.5	6.5	6.5	6.5
169°	7.6	8.1	8.1	8.1	7.6	6.5	6.5	7.0	7.0	6.5	6.5
170°	7.6	7.6	8.7	8.1	7.6	7.0	7.6	7.0	7.6	7.0	6.5
171°	8.1	8.1	8.7	8.1	8.1	7.6	7.0	7.0	7.0	7.6	7.0
172°	8.1	7.6	8.1	8.1	7.6	8.1	7.6	7.6	7.0	7.0	7.0
173°	8.7	8.7	8.7	8.7	7.6	8.1	7.6	8.1	7.6	7.6	7.6
174°	8.1	8.7	8.7	8.7	8.1	8.1	8.1	7.6	7.6	7.6	7.6
175°	8.7	8.7	8.7	8.7	8.7	8.1	8.1	8.1	7.6	8.1	8.1
176°	8.1	8.7	8.1	8.1	8.1	8.1	8.1	8.1	7.6	8.1	7.6
177°	8.7	8.7	8.7	8.7	8.7	8.1	7.6	7.6	8.1	8.1	7.6
178°	8.1	8.1	8.7	8.7	8.7	7.6	8.1	8.1	8.1	8.1	7.6
179°	8.7	8.7	8.1	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.1



TEST NUMBER: P571645  
CATALOG NUMBER: 4ST2L40SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5



TEST NUMBER: P571645  
 CATALOG NUMBER: 4ST2L40SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7
1°	1318.8	1312.8	1289.7	1304.2	1304.8	1315.0
2°	1319.9	1311.8	1289.7	1304.2	1304.8	1314.5
3°	1318.8	1313.5	1290.2	1303.1	1304.2	1314.0
4°	1318.8	1312.8	1289.0	1303.1	1303.6	1311.3
5°	1318.3	1311.8	1288.0	1300.9	1300.9	1309.1
6°	1316.1	1311.3	1288.0	1300.9	1298.2	1305.8
7°	1314.0	1310.1	1285.8	1298.2	1296.1	1301.6
8°	1311.3	1308.0	1284.2	1295.0	1291.8	1299.4
9°	1310.1	1306.4	1281.5	1292.9	1286.9	1295.0
10°	1306.4	1305.3	1280.4	1290.2	1284.8	1288.0
11°	1302.6	1302.6	1277.1	1285.3	1279.3	1282.6
12°	1300.4	1298.2	1272.9	1281.0	1272.3	1278.3
13°	1296.7	1294.5	1271.2	1278.3	1267.4	1269.6
14°	1291.8	1293.4	1266.4	1272.3	1262.0	1261.5
15°	1288.5	1289.0	1261.5	1265.2	1254.0	1256.1
16°	1284.2	1285.8	1258.8	1261.5	1247.4	1245.8
17°	1279.9	1281.0	1254.5	1254.5	1240.4	1235.5
18°	1275.1	1277.1	1248.0	1246.4	1231.7	1229.6
19°	1268.5	1272.3	1246.4	1239.9	1225.8	1219.9
20°	1262.0	1268.5	1239.4	1233.9	1214.4	1206.4
21°	1255.0	1261.0	1233.4	1224.2	1204.2	1198.3
22°	1251.3	1256.6	1229.6	1217.1	1196.6	1187.9
23°	1242.6	1252.3	1220.9	1210.7	1183.6	1172.8
24°	1233.4	1244.7	1213.4	1199.8	1173.3	1163.1
25°	1228.0	1239.4	1209.6	1189.6	1164.1	1151.7
26°	1220.4	1232.8	1200.4	1182.6	1148.5	1135.0
27°	1210.1	1224.2	1191.8	1172.3	1137.6	1124.2
28°	1204.7	1219.3	1185.8	1160.4	1127.9	1110.6
29°	1197.1	1210.7	1177.2	1152.9	1111.7	1093.4
30°	1187.4	1200.4	1168.0	1141.5	1098.7	1083.0
31°	1182.0	1196.1	1157.7	1127.9	1088.0	1066.3
32°	1170.7	1186.9	1150.7	1118.7	1073.3	1051.1
33°	1160.9	1176.6	1143.1	1107.9	1063.6	1039.2
34°	1153.9	1170.7	1132.8	1092.2	1044.1	1018.7
35°	1141.5	1162.6	1126.9	1083.0	1028.5	1003.5
36°	1131.2	1151.7	1114.5	1071.2	1009.0	990.1
37°	1123.6	1144.7	1104.1	1055.5	997.1	967.8
38°	1111.2	1137.1	1098.2	1045.2	980.4	951.7
39°	1100.9	1126.9	1091.2	1032.2	959.2	937.6
40°	1092.2	1120.4	1075.5	1017.6	946.8	914.9
41°	1079.3	1107.4	1067.9	1007.9	930.1	896.0
42°	1069.0	1096.6	1054.4	991.1	909.0	882.5
43°	1060.3	1083.6	1045.2	976.5	895.4	858.7
44°	1045.2	1075.5	1034.9	966.8	879.3	838.7



TEST NUMBER: P571645  
 CATALOG NUMBER: 4ST2L40SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1034.4	1059.3	1020.9	949.0	858.1	819.1
46°	1025.8	1050.1	1010.1	935.4	844.1	804.0
47°	1012.7	1041.4	1000.8	924.6	826.8	779.2
48°	997.6	1030.6	988.9	906.8	807.3	759.7
49°	988.9	1016.1	973.3	893.2	785.1	745.1
50°	974.4	1007.4	964.6	881.9	772.2	719.2
51°	960.3	995.5	951.7	863.0	753.7	699.1
52°	951.1	980.4	936.0	848.4	731.1	684.0
53°	936.5	973.8	927.4	837.0	716.5	658.0
54°	920.9	958.7	913.8	821.3	699.1	637.0
55°	910.6	945.2	897.6	803.0	676.4	621.8
56°	898.1	935.4	888.4	791.6	662.4	595.3
57°	880.8	918.7	875.4	776.5	644.6	573.7
58°	870.0	905.7	858.7	757.6	622.3	558.1
59°	857.6	894.4	852.1	746.2	608.4	537.5
60°	842.4	876.5	835.4	731.6	590.4	510.5
61°	832.7	861.4	820.3	712.7	577.5	494.7
62°	811.6	847.8	810.0	697.5	555.9	473.6
63°	794.8	826.8	790.6	686.7	536.4	447.1
64°	773.8	808.4	773.8	667.2	519.7	431.0
65°	759.7	794.3	760.8	652.1	506.1	409.4
66°	741.3	771.0	739.1	640.2	484.5	383.4
67°	717.5	748.9	720.2	624.0	467.7	367.1
68°	702.4	734.8	706.1	602.9	454.2	346.0
69°	683.0	708.9	680.8	589.9	432.5	319.5
70°	656.5	686.2	660.2	572.7	415.8	308.8
71°	639.7	669.4	644.6	549.4	402.3	282.3
72°	618.6	646.7	624.0	535.3	381.7	261.2
73°	596.5	619.1	595.8	516.9	363.9	245.5
74°	580.2	597.5	579.1	492.0	352.0	219.6
75°	552.6	581.2	557.4	476.9	331.4	199.0
76°	531.6	553.7	529.9	456.9	314.7	184.4
77°	515.3	537.0	513.7	430.4	302.8	159.5
78°	487.7	515.3	492.0	414.7	286.5	154.6
79°	465.6	489.4	465.6	393.6	265.5	127.1
80°	449.3	472.6	449.9	372.5	251.5	104.9
81°	422.8	451.5	428.8	356.9	234.2	88.2
82°	401.7	425.5	402.3	330.4	210.9	75.7
83°	386.6	415.3	387.1	309.8	195.8	60.5
84°	361.2	389.9	367.7	294.7	177.9	43.3
85°	341.7	370.4	348.7	268.7	163.8	34.0
86°	327.1	350.9	324.9	254.1	141.7	21.1
87°	308.2	332.0	311.5	235.7	124.4	12.9
88°	285.0	312.5	293.1	214.6	104.9	8.7
89°	271.4	298.4	279.0	202.2	94.6	3.8



TEST NUMBER: P571645  
 CATALOG NUMBER: 4ST2L40SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	254.1	279.6	256.3	185.4	83.8	2.2
91°	244.4	273.1	246.6	176.8	80.6	1.7
92°	240.6	269.3	240.1	172.0	75.1	2.2
93°	232.5	261.7	236.3	168.7	71.9	2.2
94°	228.2	256.8	230.3	162.8	63.8	1.7
95°	225.0	253.0	223.8	157.9	46.5	1.0
96°	220.6	246.6	220.1	154.6	28.1	1.7
97°	215.8	240.6	215.2	150.4	25.5	1.7
98°	211.9	236.3	208.2	133.0	30.8	1.7
99°	205.5	229.3	204.9	106.5	37.4	1.0
100°	195.8	223.3	199.0	61.1	35.2	1.0
101°	175.7	215.2	175.7	34.0	34.6	1.0
102°	109.8	181.2	144.4	31.9	33.0	1.0
103°	71.9	119.0	81.1	29.7	30.8	1.0
104°	43.3	78.4	34.6	43.8	29.2	1.0
105°	35.7	37.4	30.3	63.8	27.0	1.0
106°	35.7	34.0	28.1	91.4	27.0	1.0
107°	34.0	33.0	26.5	89.7	23.8	0.5
108°	33.0	31.9	30.3	88.7	20.6	1.0
109°	43.3	42.7	61.7	82.2	18.9	0.5
110°	70.9	65.4	96.8	78.4	16.2	1.0
111°	104.3	101.6	120.6	76.3	9.2	1.0
112°	124.4	141.7	121.7	72.4	5.9	1.0
113°	120.6	141.7	116.8	68.7	4.3	1.0
114°	116.8	136.3	113.0	66.0	2.7	1.0
115°	112.0	129.8	109.3	61.7	2.7	0.5
116°	108.7	126.6	103.8	58.4	2.2	0.5
117°	103.3	120.6	100.6	55.7	2.2	0.5
118°	99.4	116.2	96.8	50.8	1.7	1.0
119°	95.7	113.0	91.9	48.1	1.7	0.5
120°	91.4	107.1	88.2	45.9	1.7	0.5
121°	87.0	101.6	84.3	41.6	1.7	1.0
122°	83.3	97.4	79.0	38.4	1.7	1.0
123°	79.0	91.9	75.7	35.7	1.0	0.5
124°	73.6	87.0	71.4	32.5	1.0	0.5
125°	70.9	83.8	68.1	24.8	1.7	0.5
126°	65.4	78.4	64.9	18.9	1.0	1.0
127°	61.1	73.0	59.5	9.7	1.0	1.0
128°	57.8	70.3	55.2	5.4	1.0	0.5
129°	54.1	63.2	51.9	4.3	1.0	1.0
130°	49.3	59.5	47.1	3.8	1.0	1.0
131°	45.9	56.2	42.7	3.2	0.5	1.0
132°	41.6	51.3	39.4	2.7	1.7	1.0
133°	34.0	45.9	29.2	2.7	1.7	1.0
134°	27.5	42.7	18.9	2.2	1.0	1.0



TEST NUMBER: P571645  
 CATALOG NUMBER: 4ST2L40SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	16.2	34.0	12.4	1.7	1.0	1.0
136°	8.1	20.0	5.9	1.7	1.7	1.7
137°	5.9	12.4	4.9	1.7	1.7	1.0
138°	5.4	7.6	5.4	1.7	2.2	1.7
139°	4.3	5.9	4.9	1.7	2.2	1.7
140°	3.8	4.9	3.2	2.2	1.7	1.7
141°	3.2	4.3	2.7	1.7	2.2	1.7
142°	2.7	3.8	2.7	2.2	2.2	2.2
143°	2.2	3.2	2.7	2.2	2.2	2.2
144°	2.7	2.7	2.7	2.7	2.7	2.2
145°	2.7	2.2	2.2	2.7	2.2	2.7
146°	2.7	3.2	2.7	2.7	3.2	2.7
147°	2.7	2.7	3.2	3.2	3.2	2.7
148°	2.7	3.2	3.8	3.2	2.7	3.2
149°	2.7	3.2	3.2	3.2	3.2	3.2
150°	3.2	3.8	3.2	3.8	3.8	3.8
151°	3.8	3.2	3.8	3.8	3.8	3.8
152°	3.8	3.8	3.8	4.3	3.8	3.2
153°	3.8	3.2	3.8	4.3	4.3	4.3
154°	3.8	4.3	4.3	3.8	3.8	4.3
155°	3.8	4.3	4.3	4.3	4.3	4.3
156°	3.8	4.9	4.3	4.9	4.9	4.3
157°	4.3	4.9	5.4	4.9	4.9	4.9
158°	4.9	4.3	4.3	4.9	5.4	4.9
159°	4.9	4.9	4.3	4.9	5.4	5.4
160°	4.3	4.9	5.4	5.4	5.4	5.4
161°	5.4	5.4	5.4	5.4	5.4	5.4
162°	4.9	4.9	5.4	5.9	5.9	5.9
163°	5.4	5.9	5.9	5.9	5.9	5.9
164°	5.4	5.4	5.9	5.9	6.5	6.5
165°	4.9	5.9	6.5	6.5	6.5	7.0
166°	5.9	5.9	6.5	6.5	7.0	6.5
167°	5.9	6.5	6.5	7.0	7.0	7.0
168°	6.5	6.5	7.0	7.0	7.6	7.0
169°	7.0	7.0	7.6	7.6	7.6	7.6
170°	7.0	7.0	7.0	7.0	7.6	7.6
171°	7.0	7.6	7.6	7.0	7.6	8.1
172°	7.0	8.1	7.6	7.6	7.6	8.1
173°	7.6	8.1	7.6	8.1	7.6	8.7
174°	7.6	8.1	8.1	8.1	8.1	8.1
175°	8.1	8.1	8.1	8.1	8.1	8.7
176°	8.1	8.1	7.6	8.1	8.7	8.1
177°	7.6	8.1	8.7	8.1	8.1	8.7
178°	8.1	8.7	8.7	8.7	8.1	8.1
179°	8.7	8.7	8.1	8.1	8.7	8.7



TEST NUMBER: P571645  
CATALOG NUMBER: 4ST2L40SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	8.5	8.5	8.5	8.5	8.5	8.5

(END OF REPORT)