

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: P571644

Luminaire Tested: **4ST2L4040R**

Issue Date: 3/18/2022

Test Information

Test Method: LM-79-08
Report Number: P571644
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: 4ST2L4040R
Description: 4 FOOT ST2 STIPLIGHT WITH 4000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

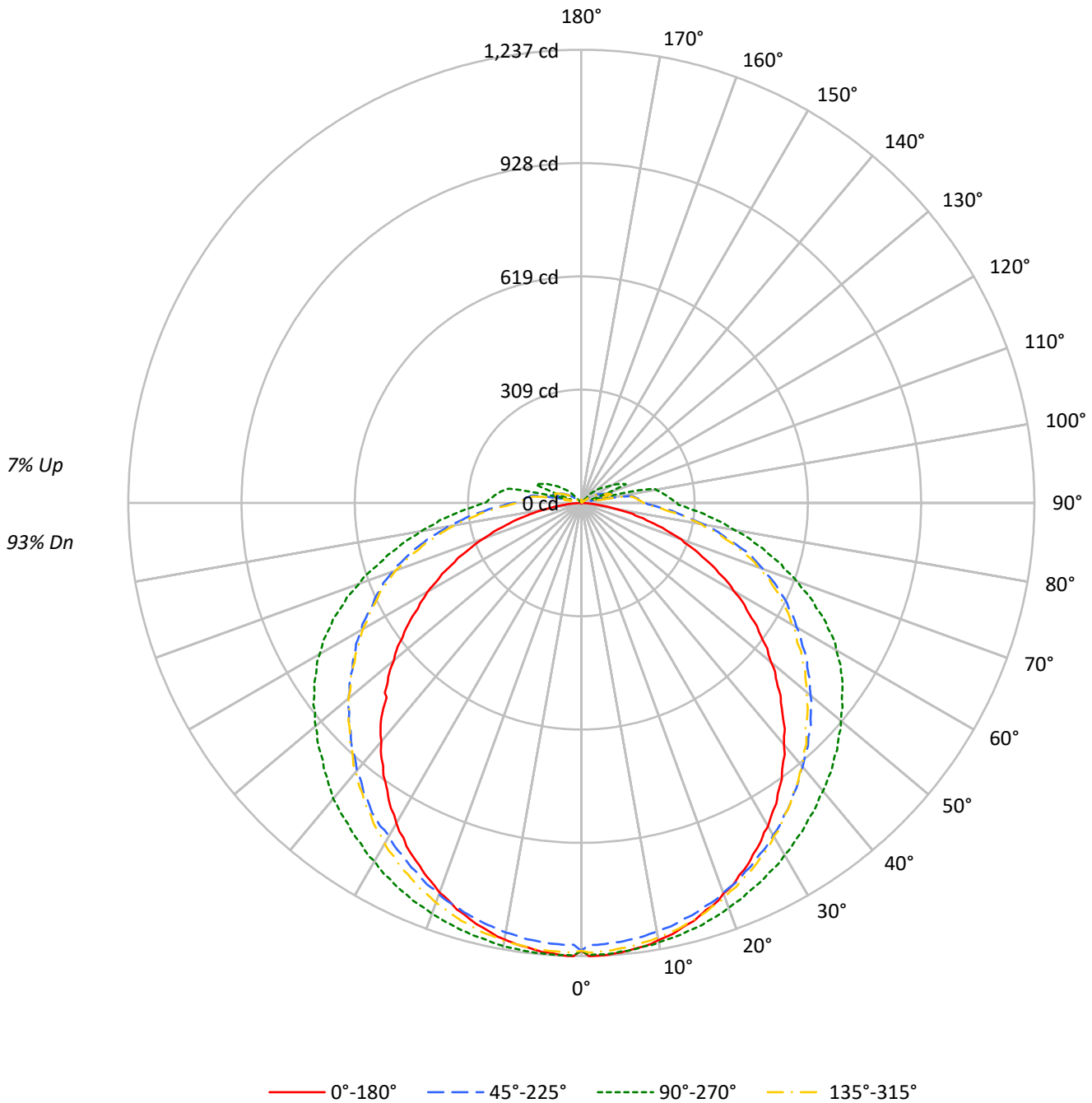
Lumens per Lamp: N/A
Luminaire Lumens: 4479.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.11')
CIE Type: Direct

Input Watts (W): 41.9
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: P571644
CATALOG NUMBER: 4ST2L4040R

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°	11274	11274	11274	11274
5°	11381	11027	11367	11073
10°	11301	10710	11281	10799
15°	11209	10436	11150	10537
20°	11036	10170	11001	10324
25°	10894	9947	10798	10119
30°	10690	9735	10593	9908
35°	10438	9564	10303	9779
40°	10137	9428	10000	9680
45°	9792	9304	9547	9484
50°	9409	9203	9290	9431
55°	9061	9150	8943	9348
60°	8466	9021	8555	9260
65°	7948	8798	7884	9082
70°	7296	8376	7115	8621
75°	6061	7844	6210	8170
80°	4546	7257	4569	7606
85°	2587	6767	2716	7033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	2.6
10°-20°	332.9	7.4
20°-30°	510.1	11.4
30°-40°	628.6	14.0
40°-50°	678.7	15.2
50°-60°	661.2	14.8
60°-70°	579.0	12.9
70°-80°	430.4	9.6
80°-90°	249.7	5.6
90°-100°	143.3	3.2
100°-110°	52.7	1.2
110°-120°	54.4	1.2
120°-130°	28.7	0.6
130°-140°	7.8	0.2
140°-150°	1.6	0.0
150°-160°	1.8	0.0
160°-170°	1.6	0.0
170°-180°	0.7	0.0
0°-30°	958.7	21.4
0°-40°	1587.3	35.4
0°-60°	2927.2	65.4
0°-90°	4186.3	93.5
90°-120°	250.4	5.6
90°-150°	288.6	6.4
90°-180°	293.0	6.5
0°-180°	4479.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1222	1222	1222	1222	1222	
5°	1232	1229	1230	1234	1232	117
15°	1182	1201	1176	1213	1182	333
25°	1084	1146	1074	1166	1084	498
35°	944	1070	932	1094	944	591
45°	771	978	752	997	771	596
55°	585	871	578	889	585	520
65°	385	724	382	747	385	380
75°	187	525	192	547	187	202
85°	32	335	34	348	32	40
90°	2	262	3	263	2	2
95°	1	233	2	238	1	1
105°	1	35	1	35	1	1
115°	0	124	2	122	0	1
125°	0	75	1	79	0	1
135°	1	36	2	32	1	1
145°	2	2	2	2	2	1
155°	4	4	4	4	4	2
165°	7	6	6	6	7	2
175°	8	8	7	8	8	1
180°	8	8	8	8	8	



TEST NUMBER: P571644
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1222.0	1222.0	1222.0	1222.0	1222.0	1222.0	1222.0	1222.0	1222.0	1222.0	1222.0
1°	1237.4	1178.9	1206.3	1240.5	1234.4	1213.5	1227.7	1226.7	1237.4	1178.9	1206.3
2°	1236.9	1178.4	1206.9	1239.9	1233.3	1212.0	1226.2	1226.2	1236.9	1178.4	1207.4
3°	1236.4	1177.9	1205.8	1239.4	1233.9	1210.4	1225.7	1225.2	1234.4	1177.4	1206.3
4°	1233.9	1176.3	1203.3	1238.4	1232.3	1209.9	1223.6	1223.2	1231.2	1175.4	1205.8
5°	1231.8	1174.3	1203.3	1236.9	1229.3	1208.4	1220.6	1220.1	1230.3	1173.3	1203.8
6°	1228.7	1172.8	1200.3	1234.4	1229.3	1204.9	1219.1	1218.6	1226.2	1172.2	1201.3
7°	1224.7	1169.2	1198.2	1232.3	1226.7	1203.8	1216.1	1215.0	1221.6	1168.2	1200.3
8°	1222.7	1166.2	1195.7	1230.3	1222.7	1200.3	1211.5	1209.4	1219.1	1163.7	1196.7
9°	1218.6	1162.6	1191.1	1226.7	1222.1	1196.7	1209.4	1205.8	1214.5	1161.0	1192.6
10°	1212.0	1157.5	1188.0	1224.7	1218.1	1194.6	1204.4	1202.8	1209.9	1156.0	1190.5
11°	1206.9	1154.4	1184.0	1221.6	1214.5	1191.1	1200.8	1196.2	1205.3	1150.4	1186.0
12°	1202.8	1147.9	1180.9	1217.0	1212.0	1186.5	1196.2	1188.6	1197.7	1142.7	1181.4
13°	1194.6	1140.7	1175.4	1214.5	1209.4	1182.9	1192.1	1185.5	1190.1	1139.2	1177.9
14°	1187.0	1137.2	1168.7	1208.9	1204.4	1178.9	1185.0	1177.4	1185.0	1135.6	1171.7
15°	1182.0	1129.5	1165.6	1202.8	1201.3	1173.8	1178.9	1168.7	1175.8	1128.0	1167.2
16°	1172.2	1124.9	1159.6	1199.2	1198.2	1168.7	1173.8	1163.7	1166.7	1119.4	1162.6
17°	1162.6	1118.3	1151.9	1193.2	1191.6	1164.6	1166.7	1155.5	1161.0	1113.7	1155.0
18°	1157.0	1109.7	1147.9	1186.0	1187.5	1158.0	1158.5	1144.8	1148.9	1107.1	1149.8
19°	1147.9	1101.5	1141.8	1184.5	1182.5	1153.4	1153.4	1138.6	1139.2	1097.0	1144.8
20°	1135.1	1095.4	1132.6	1176.8	1175.8	1147.3	1144.8	1130.6	1131.5	1088.3	1137.2
21°	1127.5	1085.3	1125.5	1170.8	1169.7	1140.7	1135.6	1117.3	1118.9	1082.2	1128.5
22°	1117.8	1075.6	1119.9	1166.2	1165.6	1135.6	1129.5	1109.7	1108.2	1073.0	1123.9
23°	1103.6	1069.0	1110.7	1157.5	1157.5	1128.0	1119.4	1100.0	1098.5	1060.8	1114.3
24°	1094.4	1056.8	1101.1	1150.4	1151.4	1121.4	1110.7	1087.8	1084.2	1054.2	1104.1
25°	1083.7	1046.0	1094.9	1145.3	1146.3	1115.3	1103.6	1080.7	1074.1	1043.0	1097.9
26°	1068.0	1038.9	1084.2	1135.1	1139.7	1106.6	1094.0	1065.9	1063.4	1029.8	1088.3
27°	1057.8	1025.7	1075.1	1127.0	1131.5	1103.1	1082.2	1053.7	1051.7	1022.2	1078.2
28°	1045.1	1014.0	1068.0	1121.4	1126.0	1096.0	1075.1	1044.6	1034.8	1011.0	1072.0
29°	1028.8	1005.9	1059.3	1110.7	1119.9	1089.4	1064.9	1029.3	1025.2	996.8	1062.4
30°	1019.1	994.1	1047.1	1102.0	1109.7	1078.7	1051.2	1016.5	1009.9	987.6	1050.6
31°	1003.4	979.9	1038.9	1090.8	1103.6	1073.0	1044.1	1006.4	992.7	975.8	1042.5
32°	989.1	970.3	1029.8	1084.2	1094.9	1063.9	1030.9	989.6	982.0	961.1	1038.5
33°	977.9	961.1	1016.5	1076.1	1085.8	1053.7	1017.6	976.9	966.2	955.0	1028.8
34°	958.6	942.2	1008.5	1067.5	1080.2	1047.6	1009.4	965.2	946.8	938.3	1021.1
35°	944.3	932.1	997.3	1058.3	1070.0	1038.0	996.8	947.4	932.1	925.0	1008.0
36°	931.6	918.9	984.0	1049.2	1059.9	1026.8	981.5	933.1	919.4	915.4	996.2
37°	910.7	901.5	975.4	1041.5	1054.2	1020.6	973.3	917.9	899.0	898.5	988.1
38°	895.5	891.4	963.2	1031.8	1045.1	1011.5	961.6	906.7	886.4	884.8	973.3
39°	882.3	876.6	948.9	1019.7	1033.4	1002.3	948.4	887.3	870.6	874.6	962.1
40°	860.8	858.3	940.3	1013.0	1026.8	995.7	939.2	872.0	849.2	856.3	953.4
41°	843.1	848.2	927.5	1001.4	1018.1	983.5	923.5	859.9	835.9	841.6	938.7
42°	830.4	833.4	916.8	988.6	1008.0	973.3	909.7	839.5	819.2	830.9	926.5
43°	808.0	821.7	907.2	981.0	1001.4	965.7	901.1	824.2	800.9	812.6	917.3
44°	789.2	807.0	891.9	969.8	989.1	952.0	884.3	811.6	778.0	798.3	905.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	770.8	787.6	881.2	956.1	977.9	940.8	864.5	787.6	751.5	778.5	890.4
46°	756.6	776.4	871.1	947.9	970.8	927.5	854.8	775.9	746.4	766.2	877.2
47°	733.2	759.7	855.8	936.7	958.0	919.4	844.6	763.2	723.6	751.5	868.5
48°	714.9	740.8	843.6	923.0	946.3	908.2	831.3	742.3	709.7	739.8	852.8
49°	701.2	729.1	832.9	911.8	938.7	900.1	814.1	725.5	691.4	720.0	843.6
50°	676.7	712.4	817.1	903.6	925.0	885.8	803.4	713.3	668.1	704.2	829.9
51°	657.8	692.5	802.9	890.9	913.3	874.6	790.6	696.0	653.8	688.9	814.1
52°	643.6	676.7	793.2	876.6	905.2	864.9	775.9	675.2	636.0	676.2	803.4
53°	619.2	663.5	776.9	867.5	890.9	854.8	765.7	664.0	611.6	656.4	789.7
54°	599.4	643.6	762.2	854.8	880.2	840.0	748.5	646.1	596.8	644.7	772.3
55°	585.1	631.0	752.5	839.5	870.6	830.4	734.2	625.8	577.5	627.8	762.2
56°	560.2	615.2	738.7	830.9	859.4	819.2	724.0	613.1	558.1	608.0	749.5
57°	539.8	598.3	720.9	817.6	845.1	804.4	703.2	596.8	533.7	583.1	735.2
58°	525.1	578.0	707.2	801.8	834.9	791.7	692.5	575.9	520.0	579.1	725.0
59°	505.7	565.8	697.1	791.7	818.1	782.6	682.3	563.8	500.7	559.2	708.3
60°	480.3	548.5	678.8	778.5	803.4	765.7	665.0	547.5	485.4	543.4	693.5
61°	465.5	536.3	667.6	767.3	793.2	753.1	651.3	526.6	461.4	531.2	683.3
62°	445.7	516.9	653.8	747.9	776.4	741.9	640.1	514.4	441.7	511.4	666.0
63°	420.7	500.2	636.0	732.7	756.1	722.5	622.3	499.1	426.9	494.5	651.8
64°	405.5	487.9	625.3	711.3	742.8	707.2	610.0	478.8	401.9	482.9	633.5
65°	385.2	468.1	610.0	698.5	724.0	694.5	598.8	467.6	382.1	466.0	623.3
66°	360.8	451.8	590.7	681.3	701.2	677.2	579.5	450.2	367.9	446.2	609.5
67°	345.5	439.6	579.1	661.9	686.8	655.3	564.3	434.6	342.4	434.6	590.7
68°	325.6	419.8	562.2	647.7	667.6	641.6	553.1	414.1	323.1	418.8	583.6
69°	300.7	404.5	541.9	624.3	642.6	622.8	531.7	401.9	307.8	398.3	564.3
70°	290.6	392.3	529.1	604.0	627.4	598.8	513.9	386.2	283.4	386.7	547.5
71°	265.6	372.9	511.4	589.2	607.5	584.1	501.6	374.0	264.1	371.5	535.2
72°	245.8	357.6	494.5	563.8	581.6	563.8	483.3	354.6	249.3	352.1	513.9
73°	231.0	346.5	485.4	542.9	570.9	537.3	461.4	339.3	224.9	340.9	496.6
74°	206.6	330.8	457.4	527.6	545.5	522.0	447.2	328.1	206.0	325.6	483.3
75°	187.2	312.4	438.1	501.6	525.1	502.1	427.9	310.3	191.8	307.3	461.4
76°	173.5	297.2	412.7	481.8	510.3	476.7	404.0	295.1	174.0	292.0	442.2
77°	150.0	284.9	397.9	466.6	484.9	462.0	389.2	283.4	150.6	280.8	427.9
78°	145.5	264.1	382.7	440.1	470.1	441.7	369.9	264.1	137.4	266.1	404.0
79°	119.6	247.3	363.8	420.2	448.8	422.3	345.5	247.3	120.5	253.8	384.1
80°	98.7	234.1	340.4	406.0	424.3	407.6	331.7	230.5	99.2	233.5	369.9
81°	83.0	211.7	319.6	386.2	405.0	383.6	311.9	217.7	87.5	217.7	346.0
82°	71.3	194.4	294.6	361.7	391.2	364.8	287.4	195.9	72.7	205.1	327.6
83°	57.0	181.1	280.3	347.5	367.4	351.6	277.8	182.7	54.9	183.6	312.9
84°	40.7	159.3	262.0	333.8	348.5	329.2	254.4	165.3	45.3	166.9	294.1
85°	32.0	147.0	248.8	314.4	335.3	309.8	232.0	145.0	33.6	153.6	269.6
86°	19.9	130.8	226.4	292.0	312.9	296.6	219.8	128.2	21.3	133.3	255.4
87°	12.2	111.4	209.2	274.2	295.1	273.7	201.9	115.5	16.7	118.0	237.1
88°	8.2	100.8	196.4	253.4	282.4	257.9	185.7	97.2	8.7	106.3	215.8
89°	3.6	87.5	181.6	243.2	264.1	245.8	176.5	84.4	4.6	89.0	203.5



TEST NUMBER: P571644
 CATALOG NUMBER: 4ST2L4040R

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	2.0	82.5	174.5	238.1	262.0	232.5	169.9	79.4	3.0	78.4	186.8
91°	1.6	78.9	170.5	234.1	254.4	228.9	165.3	76.3	2.5	75.3	169.4
92°	2.0	73.8	166.9	227.9	248.8	224.3	161.8	72.7	1.6	69.7	164.8
93°	2.0	70.2	159.8	222.9	242.2	221.3	156.7	70.2	2.0	67.2	159.8
94°	1.6	67.7	156.2	217.2	238.1	215.2	152.1	65.6	2.0	64.1	156.2
95°	1.0	46.3	152.1	213.7	233.0	211.7	149.6	43.2	1.6	52.4	153.6
96°	1.6	27.5	147.0	208.6	227.0	207.1	144.0	32.5	1.6	32.0	147.5
97°	1.6	24.4	144.5	202.5	222.9	201.5	139.4	27.0	1.6	28.5	142.5
98°	1.6	25.9	136.3	198.9	218.3	198.0	131.7	31.1	1.6	29.0	139.9
99°	1.0	37.1	95.1	192.8	211.7	193.4	91.6	37.1	1.6	36.1	129.2
100°	1.0	36.6	60.6	187.2	207.6	186.8	43.7	35.6	1.0	35.2	100.8
101°	1.0	34.6	30.0	169.4	202.5	180.6	35.2	33.6	1.0	33.1	73.2
102°	1.0	32.5	28.5	116.6	174.5	149.6	31.5	31.5	1.6	31.5	40.2
103°	1.0	30.0	25.9	65.6	142.5	94.6	29.5	29.5	1.6	30.0	36.6
104°	1.0	28.5	27.5	30.0	81.9	45.8	31.5	27.5	1.6	28.5	35.2
105°	1.0	25.9	49.9	24.9	35.2	31.1	58.0	26.5	1.0	25.9	41.2
106°	1.0	24.9	72.7	24.0	31.1	30.0	85.0	24.4	1.0	24.4	62.1
107°	0.5	22.9	88.5	22.9	29.5	27.9	83.4	22.4	1.0	21.9	79.8
108°	1.0	20.4	84.4	27.9	29.0	26.5	80.9	21.3	1.0	20.4	82.5
109°	0.5	18.8	81.9	47.3	28.5	36.6	77.3	19.4	1.0	18.3	78.9
110°	1.0	17.3	76.8	80.4	47.3	72.2	74.3	16.7	1.0	15.8	76.3
111°	1.0	13.7	71.8	119.1	78.9	97.7	68.2	15.3	1.0	10.2	71.8
112°	1.0	9.6	68.2	118.0	105.4	116.6	63.6	9.2	0.5	6.6	69.2
113°	1.0	4.6	63.1	113.4	131.7	113.9	60.6	4.1	1.0	4.1	66.7
114°	1.0	3.0	59.5	109.3	127.2	108.4	56.5	3.6	1.0	3.6	64.1
115°	0.5	3.0	57.0	105.8	124.1	103.8	53.5	3.0	1.6	3.0	60.1
116°	0.5	2.5	54.4	99.7	119.1	97.7	52.4	2.5	1.0	2.5	57.4
117°	0.5	1.6	50.9	94.2	112.5	93.6	49.9	2.0	1.0	1.6	54.9
118°	1.0	1.6	49.4	89.6	108.9	88.5	47.3	1.6	1.0	1.6	50.3
119°	0.5	1.6	46.3	83.4	102.2	84.4	44.8	1.6	1.0	1.6	48.9
120°	0.5	1.6	42.3	79.8	95.6	79.8	42.7	1.6	1.0	1.6	44.8
121°	1.0	1.6	39.7	74.8	91.0	74.3	39.1	1.6	1.0	1.6	41.7
122°	1.0	1.0	37.7	72.2	86.0	71.3	36.6	1.6	1.0	1.6	39.1
123°	0.5	1.0	33.6	68.6	80.9	68.6	34.1	0.5	1.0	1.6	35.6
124°	0.5	1.0	31.1	64.7	78.4	64.7	30.0	1.6	1.6	1.6	32.0
125°	0.5	1.0	29.0	62.1	74.8	61.5	27.5	1.0	1.0	1.0	30.6
126°	1.0	0.5	21.3	58.5	69.7	59.0	20.8	1.6	1.0	1.0	23.4
127°	1.0	1.6	12.8	54.9	67.7	55.5	10.2	1.0	1.0	1.0	15.3
128°	0.5	1.0	7.1	52.4	63.1	51.9	7.1	1.0	1.0	1.0	9.6
129°	1.0	1.0	4.1	47.8	61.1	49.9	4.6	1.0	1.0	1.6	5.1
130°	1.0	1.0	3.6	43.7	56.5	45.8	3.6	1.0	1.0	1.6	5.1
131°	1.0	1.6	3.6	41.2	52.4	41.7	3.6	1.6	1.6	1.0	4.1
132°	1.0	1.0	2.5	36.6	46.8	39.1	3.0	1.6	1.6	1.6	3.0
133°	1.0	1.0	2.0	33.1	45.8	35.6	2.5	2.0	1.6	1.6	2.5
134°	1.0	1.6	1.6	24.4	40.7	25.9	2.0	1.0	1.0	1.6	2.5



TEST NUMBER: P571644
 CATALOG NUMBER: 4ST2L4040R

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.0	1.0	1.6	18.8	35.6	18.8	1.6	1.6	1.6	1.6	2.0
136°	1.6	1.0	2.0	6.6	28.5	9.2	1.6	1.6	1.0	1.6	2.0
137°	1.0	1.0	1.6	4.6	14.2	5.6	1.6	1.6	1.6	1.6	2.0
138°	1.6	1.6	1.6	4.1	7.6	5.1	1.6	1.6	1.6	1.6	2.0
139°	1.6	1.6	1.6	4.1	5.6	4.1	2.0	1.6	1.6	2.0	1.6
140°	1.6	1.6	2.0	3.0	4.6	3.6	2.5	2.0	2.0	1.6	2.0
141°	1.6	2.0	2.0	2.5	4.1	3.0	2.0	2.0	2.0	2.5	2.5
142°	2.0	2.0	2.0	2.5	4.1	3.0	2.0	2.0	1.6	2.5	2.5
143°	2.0	2.0	2.0	2.0	3.0	2.5	2.0	2.0	2.0	2.0	2.5
144°	2.0	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.5	2.5	2.5
145°	2.5	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
146°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0	2.5
147°	2.5	2.5	2.5	2.5	3.0	2.5	3.0	2.5	2.5	2.5	2.5
148°	3.0	3.0	3.0	3.0	3.0	2.5	2.5	2.5	3.0	2.5	2.5
149°	3.0	3.0	3.6	3.6	3.6	3.0	2.5	2.5	3.0	3.0	3.0
150°	3.6	3.6	3.0	3.0	3.0	3.0	3.0	3.6	3.0	3.0	3.0
151°	3.6	3.6	3.0	3.6	3.6	3.0	3.6	3.6	3.6	3.0	3.0
152°	3.0	3.6	3.6	3.6	3.6	3.0	3.6	3.6	3.6	3.6	3.6
153°	4.1	4.1	3.6	3.6	4.1	3.6	3.6	3.0	3.6	3.6	3.6
154°	4.1	4.1	4.1	3.6	4.1	3.6	3.0	3.6	3.6	3.6	4.1
155°	4.1	4.6	4.6	3.6	4.1	3.6	3.6	4.1	4.1	4.1	3.6
156°	4.1	4.1	4.6	4.6	4.1	4.1	3.6	4.1	4.1	4.1	3.6
157°	4.6	4.6	4.6	4.6	4.6	3.6	4.1	4.6	4.1	4.1	4.1
158°	4.6	5.1	4.6	4.6	5.1	4.1	4.6	4.1	4.6	4.6	4.1
159°	5.1	5.1	4.6	5.1	5.1	4.6	4.6	4.6	4.6	4.6	4.6
160°	5.1	5.1	5.6	4.6	5.1	4.1	4.6	4.6	5.1	4.6	4.6
161°	5.1	5.6	5.1	5.6	5.1	4.6	5.1	4.6	5.1	5.1	4.6
162°	5.6	5.6	5.6	5.6	5.6	4.6	5.1	4.6	5.1	4.6	4.6
163°	5.6	5.6	6.1	5.6	5.6	5.1	5.1	5.6	5.1	5.1	5.1
164°	6.1	6.1	6.6	6.1	6.1	5.6	5.6	5.1	5.6	5.6	4.6
165°	6.6	6.1	6.6	6.6	5.6	5.1	5.6	5.6	5.6	5.6	5.6
166°	6.1	6.6	6.6	6.6	6.1	5.6	5.6	6.1	5.6	5.6	5.1
167°	6.6	6.6	7.1	6.6	6.6	5.6	6.6	6.1	5.6	6.1	6.1
168°	6.6	6.6	7.1	7.1	6.6	5.6	6.6	6.1	6.1	6.1	6.1
169°	7.1	7.6	7.6	7.6	7.1	6.1	6.1	6.6	6.6	6.1	6.1
170°	7.1	7.1	8.2	7.6	7.1	6.6	7.1	6.6	7.1	6.6	6.1
171°	7.6	7.6	8.2	7.6	7.6	7.1	6.6	6.6	6.6	7.1	6.6
172°	7.6	7.1	7.6	7.6	7.1	7.6	7.1	7.1	6.6	6.6	6.6
173°	8.2	8.2	8.2	8.2	7.1	7.6	7.1	7.6	7.1	7.1	7.1
174°	7.6	8.2	8.2	8.2	7.6	7.6	7.6	7.1	7.1	7.1	7.1
175°	8.2	8.2	8.2	8.2	8.2	7.6	7.6	7.6	7.1	7.6	7.6
176°	7.6	8.2	7.6	7.6	7.6	7.6	7.6	7.6	7.1	7.6	7.1
177°	8.2	8.2	8.2	8.2	8.2	7.6	7.1	7.1	7.6	7.6	7.1
178°	7.6	7.6	8.2	8.2	8.2	7.1	7.6	7.6	7.6	7.6	7.1
179°	8.2	8.2	7.6	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.6



TEST NUMBER: P571644
CATALOG NUMBER: 4ST2L4040R

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0



TEST NUMBER: P571644
 CATALOG NUMBER: 4ST2L4040R

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1222.0	1222.0	1222.0	1222.0	1222.0	1222.0
1°	1241.0	1235.3	1213.5	1227.3	1227.7	1237.4
2°	1242.0	1234.4	1213.5	1227.3	1227.7	1236.9
3°	1241.0	1235.9	1214.0	1226.2	1227.3	1236.4
4°	1241.0	1235.3	1212.9	1226.2	1226.7	1233.9
5°	1240.5	1234.4	1212.0	1224.1	1224.1	1231.8
6°	1238.4	1233.9	1212.0	1224.1	1221.6	1228.7
7°	1236.4	1232.8	1209.9	1221.6	1219.6	1224.7
8°	1233.9	1230.8	1208.4	1218.6	1215.6	1222.7
9°	1232.8	1229.3	1205.8	1216.5	1210.9	1218.6
10°	1229.3	1228.2	1204.9	1214.0	1208.9	1212.0
11°	1225.7	1225.7	1201.7	1209.4	1203.8	1206.9
12°	1223.6	1221.6	1197.7	1205.3	1197.2	1202.8
13°	1220.1	1218.1	1196.2	1202.8	1192.6	1194.6
14°	1215.6	1217.0	1191.6	1197.2	1187.5	1187.0
15°	1212.5	1212.9	1187.0	1190.5	1179.9	1182.0
16°	1208.4	1209.9	1184.5	1187.0	1173.8	1172.2
17°	1204.4	1205.3	1180.4	1180.4	1167.2	1162.6
18°	1199.8	1201.7	1174.3	1172.8	1159.0	1157.0
19°	1193.7	1197.2	1172.8	1166.7	1153.4	1147.9
20°	1187.5	1193.7	1166.2	1161.0	1142.7	1135.1
21°	1180.9	1186.5	1160.6	1151.9	1133.1	1127.5
22°	1177.4	1182.5	1157.0	1145.3	1126.0	1117.8
23°	1169.2	1178.4	1148.9	1139.2	1113.7	1103.6
24°	1160.6	1171.3	1141.8	1129.0	1104.1	1094.4
25°	1155.5	1166.2	1138.2	1119.4	1095.4	1083.7
26°	1148.4	1160.1	1129.5	1112.7	1080.7	1068.0
27°	1138.6	1151.9	1121.4	1103.1	1070.5	1057.8
28°	1133.6	1147.3	1115.8	1091.9	1061.3	1045.1
29°	1126.5	1139.2	1107.7	1084.8	1046.0	1028.8
30°	1117.3	1129.5	1099.0	1074.1	1033.9	1019.1
31°	1112.3	1125.5	1089.4	1061.3	1023.7	1003.4
32°	1101.5	1116.8	1082.8	1052.7	1009.9	989.1
33°	1092.4	1107.1	1075.6	1042.5	1000.8	977.9
34°	1085.8	1101.5	1065.9	1027.7	982.5	958.6
35°	1074.1	1094.0	1060.4	1019.1	967.8	944.3
36°	1064.4	1083.7	1048.7	1008.0	949.5	931.6
37°	1057.2	1077.1	1038.9	993.2	938.3	910.7
38°	1045.6	1070.0	1033.4	983.5	922.5	895.5
39°	1035.9	1060.4	1026.8	971.3	902.6	882.3
40°	1027.7	1054.2	1012.0	957.5	890.9	860.8
41°	1015.6	1042.1	1004.9	948.4	875.2	843.1
42°	1005.9	1031.8	992.2	932.6	855.3	830.4
43°	997.7	1019.7	983.5	918.9	842.5	808.0
44°	983.5	1012.0	973.8	909.7	827.4	789.2



TEST NUMBER: P571644
 CATALOG NUMBER: 4ST2L4040R

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	973.3	996.8	960.7	893.0	807.5	770.8
46°	965.2	988.1	950.4	880.2	794.2	756.6
47°	953.0	979.9	941.8	870.0	778.0	733.2
48°	938.7	969.8	930.6	853.3	759.7	714.9
49°	930.6	956.1	915.9	840.5	738.7	701.2
50°	916.8	947.9	907.7	829.9	726.6	676.7
51°	903.6	936.7	895.5	812.1	709.2	657.8
52°	894.9	922.5	880.7	798.3	687.9	643.6
53°	881.2	916.3	872.6	787.6	674.2	619.2
54°	866.5	902.1	859.9	772.8	657.8	599.4
55°	856.9	889.4	844.6	755.6	636.5	585.1
56°	845.1	880.2	835.9	744.9	623.3	560.2
57°	828.8	864.5	823.7	730.7	606.5	539.8
58°	818.7	852.3	808.0	712.8	585.6	525.1
59°	807.0	841.6	801.8	702.1	572.4	505.7
60°	792.7	824.7	786.1	688.4	555.6	480.3
61°	783.5	810.5	771.9	670.6	543.4	465.5
62°	763.7	797.8	762.2	656.4	523.1	445.7
63°	747.9	778.0	743.9	646.1	504.8	420.7
64°	728.1	760.7	728.1	627.8	489.0	405.5
65°	714.9	747.4	715.9	613.6	476.2	385.2
66°	697.6	725.5	695.5	602.4	455.9	360.8
67°	675.2	704.7	677.7	587.1	440.1	345.5
68°	660.9	691.4	664.5	567.3	427.4	325.6
69°	642.6	667.1	640.6	555.1	407.0	300.7
70°	617.7	645.7	621.2	538.8	391.2	290.6
71°	601.9	629.9	606.5	516.9	378.6	265.6
72°	582.1	608.6	587.1	503.7	359.2	245.8
73°	561.2	582.6	560.7	486.4	342.4	231.0
74°	546.0	562.2	544.9	463.0	331.3	206.6
75°	520.0	546.9	524.5	448.8	311.9	187.2
76°	500.2	521.0	498.6	429.9	296.1	173.5
77°	484.9	505.3	483.3	405.0	284.9	150.0
78°	458.9	484.9	463.0	390.3	269.6	145.5
79°	438.1	460.5	438.1	370.4	249.9	119.6
80°	422.8	444.7	423.4	350.5	236.6	98.7
81°	397.9	424.8	403.5	335.8	220.3	83.0
82°	378.0	400.4	378.6	310.9	198.4	71.3
83°	363.8	390.7	364.3	291.5	184.2	57.0
84°	339.9	366.9	346.0	277.3	167.4	40.7
85°	321.5	348.5	328.1	252.9	154.1	32.0
86°	307.8	330.2	305.7	239.1	133.3	19.9
87°	290.0	312.4	293.1	221.8	117.0	12.2
88°	268.2	294.1	275.8	201.9	98.7	8.2
89°	255.4	280.8	262.5	190.3	89.0	3.6



TEST NUMBER: P571644
 CATALOG NUMBER: 4ST2L4040R

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	239.1	263.1	241.2	174.5	78.9	2.0
91°	230.0	257.0	232.0	166.4	75.9	1.6
92°	226.4	253.4	225.9	161.8	70.7	2.0
93°	218.8	246.2	222.4	158.7	67.7	2.0
94°	214.7	241.7	216.7	153.2	60.1	1.6
95°	211.7	238.1	210.6	148.6	43.7	1.0
96°	207.6	232.0	207.1	145.5	26.5	1.6
97°	203.0	226.4	202.5	141.5	24.0	1.6
98°	199.4	222.4	195.9	125.1	29.0	1.6
99°	193.4	215.8	192.8	100.2	35.2	1.0
100°	184.2	210.1	187.2	57.4	33.1	1.0
101°	165.3	202.5	165.3	32.0	32.5	1.0
102°	103.3	170.5	135.8	30.0	31.1	1.0
103°	67.7	112.0	76.3	27.9	29.0	1.0
104°	40.7	73.8	32.5	41.2	27.5	1.0
105°	33.6	35.2	28.5	60.1	25.4	1.0
106°	33.6	32.0	26.5	86.0	25.4	1.0
107°	32.0	31.1	24.9	84.4	22.4	0.5
108°	31.1	30.0	28.5	83.4	19.4	1.0
109°	40.7	40.2	58.0	77.3	17.8	0.5
110°	66.7	61.5	91.0	73.8	15.3	1.0
111°	98.1	95.6	113.4	71.8	8.7	1.0
112°	117.0	133.3	114.5	68.2	5.6	1.0
113°	113.4	133.3	109.9	64.7	4.1	1.0
114°	109.9	128.2	106.3	62.1	2.5	1.0
115°	105.4	122.1	102.8	58.0	2.5	0.5
116°	102.2	119.1	97.7	54.9	2.0	0.5
117°	97.2	113.4	94.6	52.4	2.0	0.5
118°	93.6	109.3	91.0	47.8	1.6	1.0
119°	90.1	106.3	86.5	45.3	1.6	0.5
120°	86.0	100.8	83.0	43.2	1.6	0.5
121°	81.9	95.6	79.4	39.1	1.6	1.0
122°	78.4	91.6	74.3	36.1	1.6	1.0
123°	74.3	86.5	71.3	33.6	1.0	0.5
124°	69.2	81.9	67.2	30.6	1.0	0.5
125°	66.7	78.9	64.1	23.4	1.6	0.5
126°	61.5	73.8	61.1	17.8	1.0	1.0
127°	57.4	68.6	56.0	9.2	1.0	1.0
128°	54.4	66.1	51.9	5.1	1.0	0.5
129°	50.9	59.5	48.9	4.1	1.0	1.0
130°	46.3	56.0	44.3	3.6	1.0	1.0
131°	43.2	52.9	40.2	3.0	0.5	1.0
132°	39.1	48.3	37.1	2.5	1.6	1.0
133°	32.0	43.2	27.5	2.5	1.6	1.0
134°	25.9	40.2	17.8	2.0	1.0	1.0



TEST NUMBER: P571644
 CATALOG NUMBER: 4ST2L4040R

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	15.3	32.0	11.7	1.6	1.0	1.0
136°	7.6	18.8	5.6	1.6	1.6	1.6
137°	5.6	11.7	4.6	1.6	1.6	1.0
138°	5.1	7.1	5.1	1.6	2.0	1.6
139°	4.1	5.6	4.6	1.6	2.0	1.6
140°	3.6	4.6	3.0	2.0	1.6	1.6
141°	3.0	4.1	2.5	1.6	2.0	1.6
142°	2.5	3.6	2.5	2.0	2.0	2.0
143°	2.0	3.0	2.5	2.0	2.0	2.0
144°	2.5	2.5	2.5	2.5	2.5	2.0
145°	2.5	2.0	2.0	2.5	2.0	2.5
146°	2.5	3.0	2.5	2.5	3.0	2.5
147°	2.5	2.5	3.0	3.0	3.0	2.5
148°	2.5	3.0	3.6	3.0	2.5	3.0
149°	2.5	3.0	3.0	3.0	3.0	3.0
150°	3.0	3.6	3.0	3.6	3.6	3.6
151°	3.6	3.0	3.6	3.6	3.6	3.6
152°	3.6	3.6	3.6	4.1	3.6	3.0
153°	3.6	3.0	3.6	4.1	4.1	4.1
154°	3.6	4.1	4.1	3.6	3.6	4.1
155°	3.6	4.1	4.1	4.1	4.1	4.1
156°	3.6	4.6	4.1	4.6	4.6	4.1
157°	4.1	4.6	5.1	4.6	4.6	4.6
158°	4.6	4.1	4.1	4.6	5.1	4.6
159°	4.6	4.6	4.1	4.6	5.1	5.1
160°	4.1	4.6	5.1	5.1	5.1	5.1
161°	5.1	5.1	5.1	5.1	5.1	5.1
162°	4.6	4.6	5.1	5.6	5.6	5.6
163°	5.1	5.6	5.6	5.6	5.6	5.6
164°	5.1	5.1	5.6	5.6	6.1	6.1
165°	4.6	5.6	6.1	6.1	6.1	6.6
166°	5.6	5.6	6.1	6.1	6.6	6.1
167°	5.6	6.1	6.1	6.6	6.6	6.6
168°	6.1	6.1	6.6	6.6	7.1	6.6
169°	6.6	6.6	7.1	7.1	7.1	7.1
170°	6.6	6.6	6.6	6.6	7.1	7.1
171°	6.6	7.1	7.1	6.6	7.1	7.6
172°	6.6	7.6	7.1	7.1	7.1	7.6
173°	7.1	7.6	7.1	7.6	7.1	8.2
174°	7.1	7.6	7.6	7.6	7.6	7.6
175°	7.6	7.6	7.6	7.6	7.6	8.2
176°	7.6	7.6	7.1	7.6	8.2	7.6
177°	7.1	7.6	8.2	7.6	7.6	8.2
178°	7.6	8.2	8.2	8.2	7.6	7.6
179°	8.2	8.2	7.6	7.6	8.2	8.2



TEST NUMBER: P571644
CATALOG NUMBER: 4ST2L4040R

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	8.0	8.0	8.0	8.0	8.0	8.0

(END OF REPORT)