

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: P579285

Luminaire Tested: **4ST2L4040**

Issue Date: 11/3/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P579285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (WH21035177P)
Test Lab: INNOVATION CENTER
Issue Date: 11/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ST2L4040
Description: 4FT ST Dual Lens striplight 0-10V dimming UNV 5000L 4000K
Light Source: -
Ballast/Driver:
Luminaire Equipment: Sample No. Condition Description

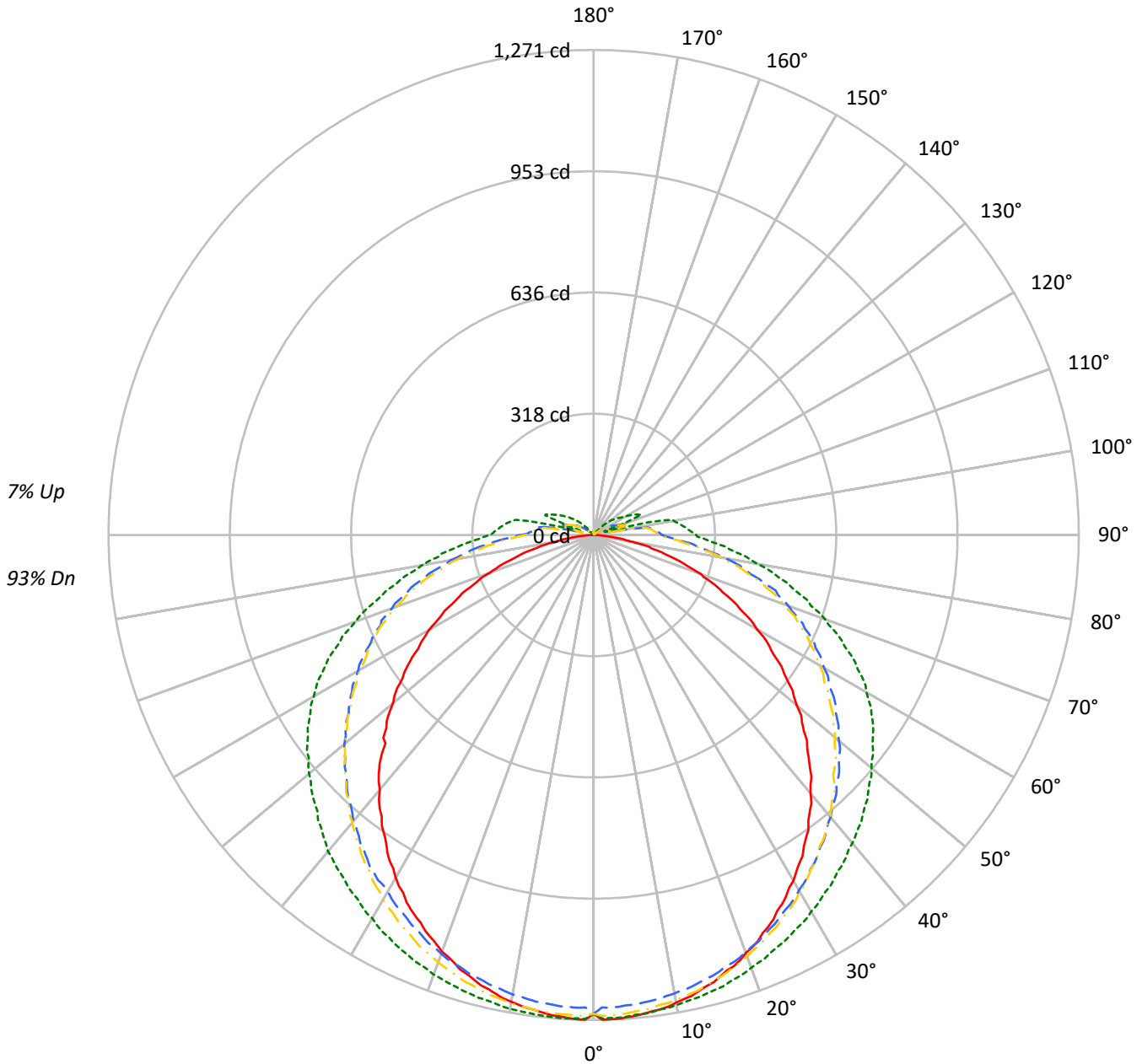
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4600.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.17m x L: 4m x H: 0.08m)
CIE Type: Direct

Input Watts (W): 40
Input Voltage (V):
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				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	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	96	96	96	93
1	105	99	94	90	102	96	92	88	91	87	84	86	83	80	81	79	76	76	76	76	74
2	95	85	78	71	91	83	76	70	78	72	67	74	69	65	70	66	62	62	62	62	60
3	86	74	65	58	83	72	64	57	68	61	55	64	58	53	61	56	52	52	52	52	49
4	78	65	56	49	75	63	55	48	60	52	46	57	50	45	54	48	44	44	44	44	41
5	72	58	48	41	69	56	48	41	53	46	40	51	44	39	48	42	38	38	38	38	35
6	66	52	43	36	64	51	42	35	48	40	35	46	39	34	44	38	33	33	33	33	31
7	61	47	38	31	59	46	37	31	44	36	30	42	35	30	40	34	29	29	29	29	27
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	26	26	26	24
9	53	39	31	25	51	38	30	25	37	29	24	35	28	24	34	28	23	23	23	23	21
10	50	36	28	22	48	35	28	22	34	27	22	32	26	21	31	25	21	21	21	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1882	1882	1882	1882
5°	1901	1822	1899	1829
10°	1889	1752	1886	1766
15°	1875	1690	1865	1707
20°	1847	1632	1841	1657
25°	1824	1581	1808	1609
30°	1791	1533	1775	1561
35°	1750	1492	1728	1525
40°	1702	1456	1678	1495
45°	1645	1422	1604	1450
50°	1583	1391	1562	1426
55°	1526	1366	1506	1396
60°	1429	1329	1444	1364
65°	1344	1276	1333	1317
70°	1238	1193	1208	1228
75°	1034	1093	1060	1139
80°	784	984	788	1032
85°	458	886	480	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	2.6
10°-20°	341.9	7.4
20°-30°	523.8	11.4
30°-40°	645.6	14.0
40°-50°	697.0	15.2
50°-60°	679.1	14.8
60°-70°	594.6	12.9
70°-80°	442.0	9.6
80°-90°	256.4	5.6
90°-100°	147.2	3.2
100°-110°	54.2	1.2
110°-120°	55.9	1.2
120°-130°	29.5	0.6
130°-140°	8.0	0.2
140°-150°	1.7	0.0
150°-160°	1.9	0.0
160°-170°	1.7	0.0
170°-180°	0.7	0.0
0°-30°	984.6	21.4
0°-40°	1630.2	35.4
0°-60°	3006.3	65.4
0°-90°	4299.3	93.5
90°-120°	257.2	5.6
90°-150°	296.4	6.4
90°-180°	301.0	6.5
0°-180°	4600.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1255	1255	1255	1255	1255	
5°	1265	1262	1264	1268	1265	120
15°	1214	1234	1208	1246	1214	342
25°	1113	1177	1103	1198	1113	512
35°	970	1099	957	1124	970	607
45°	792	1004	772	1024	792	612
55°	601	894	593	913	601	534
65°	396	744	392	768	396	390
75°	192	539	197	562	192	208
85°	33	344	34	358	33	41
90°	2	269	3	270	2	2
95°	1	239	2	244	1	1
105°	1	36	1	36	1	1
115°	0	128	2	125	0	1
125°	0	77	1	81	0	1
135°	1	37	2	33	1	1
145°	3	3	3	2	3	2
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0
1°	1270.8	1210.7	1238.9	1274.0	1267.7	1246.3	1260.9	1259.8	1270.8	1210.7	1238.9
2°	1270.3	1210.2	1239.5	1273.4	1266.6	1244.7	1259.3	1259.3	1270.3	1210.2	1240.0
3°	1269.8	1209.7	1238.4	1272.9	1267.2	1243.1	1258.8	1258.3	1267.7	1209.2	1238.9
4°	1267.2	1208.1	1235.8	1271.9	1265.6	1242.6	1256.7	1256.2	1264.5	1207.1	1238.4
5°	1265.1	1206.0	1235.8	1270.3	1262.5	1241.0	1253.6	1253.1	1263.5	1205.0	1236.3
6°	1261.9	1204.5	1232.7	1267.7	1262.5	1237.4	1252.0	1251.5	1259.3	1203.9	1233.7
7°	1257.8	1200.8	1230.6	1265.6	1259.8	1236.3	1248.9	1247.8	1254.6	1199.8	1232.7
8°	1255.7	1197.7	1228.0	1263.5	1255.7	1232.7	1244.2	1242.1	1252.0	1195.1	1229.0
9°	1251.5	1194.0	1223.3	1259.8	1255.1	1229.0	1242.1	1238.4	1247.3	1192.4	1224.8
10°	1244.7	1188.8	1220.1	1257.8	1251.0	1226.9	1236.9	1235.3	1242.6	1187.2	1222.7
11°	1239.5	1185.6	1216.0	1254.6	1247.3	1223.3	1233.2	1228.5	1237.9	1181.5	1218.0
12°	1235.3	1178.9	1212.8	1249.9	1244.7	1218.6	1228.5	1220.7	1230.1	1173.6	1213.3
13°	1226.9	1171.5	1207.1	1247.3	1242.1	1214.9	1224.3	1217.5	1222.2	1170.0	1209.7
14°	1219.1	1167.9	1200.3	1241.6	1236.9	1210.7	1217.0	1209.2	1217.0	1166.3	1203.4
15°	1213.9	1160.0	1197.1	1235.3	1233.7	1205.5	1210.7	1200.3	1207.6	1158.5	1198.7
16°	1203.9	1155.3	1190.9	1231.6	1230.6	1200.3	1205.5	1195.1	1198.2	1149.6	1194.0
17°	1194.0	1148.5	1183.0	1225.4	1223.8	1196.1	1198.2	1186.7	1192.4	1143.8	1186.2
18°	1188.3	1139.7	1178.9	1218.0	1219.6	1189.3	1189.8	1175.7	1179.9	1137.0	1180.9
19°	1178.9	1131.3	1172.6	1216.5	1214.4	1184.6	1184.6	1169.4	1170.0	1126.6	1175.7
20°	1165.8	1125.0	1163.2	1208.6	1207.6	1178.3	1175.7	1161.1	1162.1	1117.7	1167.9
21°	1158.0	1114.6	1155.9	1202.4	1201.3	1171.5	1166.3	1147.5	1149.1	1111.4	1159.0
22°	1148.0	1104.7	1150.1	1197.7	1197.1	1166.3	1160.0	1139.7	1138.1	1102.0	1154.3
23°	1133.4	1097.9	1140.7	1188.8	1188.8	1158.5	1149.6	1129.7	1128.2	1089.5	1144.4
24°	1124.0	1085.3	1130.8	1181.5	1182.5	1151.7	1140.7	1117.2	1113.5	1082.7	1133.9
25°	1113.0	1074.3	1124.5	1176.2	1177.3	1145.4	1133.4	1109.9	1103.1	1071.2	1127.6
26°	1096.8	1067.0	1113.5	1165.8	1170.5	1136.5	1123.5	1094.7	1092.1	1057.6	1117.7
27°	1086.4	1053.4	1104.1	1157.4	1162.1	1132.9	1111.4	1082.2	1080.1	1049.8	1107.3
28°	1073.3	1041.4	1096.8	1151.7	1156.4	1125.6	1104.1	1072.8	1062.8	1038.3	1101.0
29°	1056.6	1033.1	1087.9	1140.7	1150.1	1118.8	1093.7	1057.1	1052.9	1023.7	1091.1
30°	1046.6	1021.0	1075.4	1131.8	1139.7	1107.8	1079.6	1044.0	1037.2	1014.3	1079.0
31°	1030.5	1006.4	1067.0	1120.3	1133.4	1102.0	1072.3	1033.6	1019.5	1002.2	1070.7
32°	1015.8	996.5	1057.6	1113.5	1124.5	1092.6	1058.7	1016.3	1008.5	987.1	1066.5
33°	1004.3	987.1	1044.0	1105.2	1115.1	1082.2	1045.1	1003.3	992.3	980.8	1056.6
34°	984.5	967.7	1035.7	1096.3	1109.4	1075.9	1036.7	991.3	972.4	963.6	1048.7
35°	969.8	957.3	1024.2	1086.9	1098.9	1066.0	1023.7	973.0	957.3	950.0	1035.2
36°	956.8	943.7	1010.6	1077.5	1088.5	1054.5	1008.0	958.3	944.2	940.1	1023.1
37°	935.3	925.9	1001.7	1069.6	1082.7	1048.2	999.6	942.7	923.3	922.8	1014.8
38°	919.7	915.5	989.2	1059.7	1073.3	1038.8	987.6	931.2	910.3	908.7	999.6
39°	906.1	900.3	974.5	1047.2	1061.3	1029.4	974.0	911.3	894.1	898.2	988.1
40°	884.1	881.5	965.7	1040.4	1054.5	1022.6	964.6	895.6	872.1	879.4	979.2
41°	865.9	871.1	952.6	1028.4	1045.6	1010.1	948.4	883.1	858.5	864.3	964.1
42°	852.8	855.9	941.6	1015.3	1035.2	999.6	934.3	862.2	841.3	853.3	951.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	791.6	808.9	905.0	981.9	1004.3	966.2	887.8	808.9	771.8	799.5	914.4
46°	777.0	797.4	894.6	973.5	997.0	952.6	877.9	796.9	766.6	786.9	900.9
47°	753.0	780.2	878.9	962.0	983.9	944.2	867.4	783.8	743.1	771.8	892.0
48°	734.2	760.8	866.4	947.9	971.9	932.7	853.8	762.4	728.9	759.8	875.8
49°	720.1	748.8	855.4	936.4	964.1	924.4	836.1	745.1	710.1	739.4	866.4
50°	695.0	731.6	839.2	928.0	950.0	909.7	825.1	732.6	686.1	723.2	852.3
51°	675.6	711.2	824.6	915.0	938.0	898.2	812.0	714.8	671.5	707.5	836.1
52°	661.0	695.0	814.6	900.3	929.6	888.3	796.9	693.4	653.2	694.5	825.1
53°	635.9	681.4	797.9	890.9	915.0	877.9	786.4	681.9	628.1	674.1	811.0
54°	615.6	661.0	782.8	877.9	904.0	862.7	768.7	663.6	612.9	662.1	793.2
55°	600.9	648.0	772.8	862.2	894.1	852.8	754.0	642.7	593.1	644.8	782.8
56°	575.3	631.8	758.7	853.3	882.6	841.3	743.6	629.7	573.2	624.4	769.7
57°	554.4	614.5	740.4	839.7	867.9	826.1	722.2	612.9	548.1	598.8	755.1
58°	539.3	593.6	726.3	823.5	857.5	813.1	711.2	591.5	534.0	594.7	744.6
59°	519.4	581.1	715.9	813.1	840.2	803.7	700.7	579.0	514.2	574.3	727.4
60°	493.3	563.3	697.1	799.5	825.1	786.4	683.0	562.3	498.5	558.1	712.2
61°	478.1	550.8	685.6	788.0	814.6	773.4	668.9	540.8	473.9	545.5	701.8
62°	457.7	530.9	671.5	768.1	797.4	761.9	657.4	528.3	453.6	525.2	684.0
63°	432.1	513.7	653.2	752.5	776.5	742.0	639.1	512.6	438.4	507.9	669.4
64°	416.5	501.1	642.2	730.5	762.9	726.3	626.5	491.7	412.8	495.9	650.6
65°	395.6	480.7	626.5	717.4	743.6	713.3	615.0	480.2	392.4	478.6	640.1
66°	370.5	464.0	606.7	699.7	720.1	695.5	595.2	462.4	377.8	458.3	626.0
67°	354.8	451.5	594.7	679.8	705.4	673.0	579.5	446.3	351.7	446.3	606.7
68°	334.4	431.1	577.4	665.2	685.6	658.9	568.0	425.3	331.8	430.1	599.4
69°	308.8	415.4	556.5	641.2	660.0	639.6	546.1	412.8	316.1	409.1	579.5
70°	298.4	402.9	543.4	620.3	644.3	615.0	527.8	396.6	291.1	397.1	562.3
71°	272.8	383.0	525.2	605.1	623.9	599.9	515.2	384.1	271.2	381.5	549.7
72°	252.4	367.3	507.9	579.0	597.3	579.0	496.4	364.2	256.0	361.6	527.8
73°	237.2	355.9	498.5	557.6	586.3	551.8	473.9	348.5	231.0	350.1	510.0
74°	212.2	339.7	469.8	541.9	560.2	536.1	459.3	337.0	211.6	334.4	496.4
75°	192.3	320.8	449.9	515.2	539.3	515.7	439.5	318.7	197.0	315.6	473.9
76°	178.2	305.2	423.8	494.8	524.1	489.6	414.9	303.1	178.7	299.9	454.1
77°	154.1	292.6	408.6	479.2	498.0	474.5	399.7	291.1	154.7	288.4	439.5
78°	149.4	271.2	393.0	452.0	482.8	453.6	379.9	271.2	141.1	273.3	414.9
79°	122.8	254.0	373.6	431.6	460.9	433.7	354.8	254.0	123.8	260.7	394.5
80°	101.4	240.4	349.6	417.0	435.8	418.6	340.7	236.7	101.9	239.8	379.9
81°	85.2	217.4	328.2	396.6	415.9	394.0	320.3	223.6	89.9	223.6	355.3
82°	73.2	199.6	302.6	371.5	401.8	374.7	295.2	201.2	74.7	210.6	336.5
83°	58.5	186.0	287.9	356.9	377.3	361.1	285.3	187.6	56.4	188.6	321.4
84°	41.8	163.6	269.1	342.8	357.9	338.1	261.3	169.8	46.5	171.4	302.0
85°	32.9	151.0	255.5	322.9	344.4	318.2	238.3	148.9	34.5	157.8	276.9
86°	20.4	134.3	232.5	299.9	321.4	304.6	225.7	131.7	21.9	136.9	262.3
87°	12.5	114.4	214.8	281.6	303.1	281.1	207.4	118.6	17.2	121.2	243.5



TEST NUMBER: P579285
 CATALOG NUMBER: 4ST2L4040

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	2.1	84.7	179.2	244.5	269.1	238.8	174.5	81.5	3.1	80.5	191.8
91°	1.6	81.0	175.1	240.4	261.3	235.1	169.8	78.4	2.6	77.3	174.0
92°	2.1	75.8	171.4	234.1	255.5	230.4	166.2	74.7	1.6	71.6	169.3
93°	2.1	72.1	164.1	228.9	248.7	227.3	160.9	72.1	2.1	69.0	164.1
94°	1.6	69.5	160.4	223.1	244.5	221.0	156.2	67.4	2.1	65.8	160.4
95°	1.0	47.6	156.2	219.5	239.3	217.4	153.6	44.4	1.6	53.8	157.8
96°	1.6	28.2	151.0	214.2	233.1	212.7	147.9	33.4	1.6	32.9	151.5
97°	1.6	25.1	148.4	208.0	228.9	206.9	143.2	27.7	1.6	29.3	146.3
98°	1.6	26.6	140.0	204.3	224.2	203.3	135.3	31.9	1.6	29.8	143.7
99°	1.0	38.1	97.7	198.0	217.4	198.6	94.1	38.1	1.6	37.1	132.7
100°	1.0	37.6	62.2	192.3	213.2	191.8	44.9	36.6	1.0	36.1	103.5
101°	1.0	35.5	30.8	174.0	208.0	185.5	36.1	34.5	1.0	34.0	75.2
102°	1.0	33.4	29.3	119.7	179.2	153.6	32.4	32.4	1.6	32.4	41.3
103°	1.0	30.8	26.6	67.4	146.3	97.2	30.3	30.3	1.6	30.8	37.6
104°	1.0	29.3	28.2	30.8	84.1	47.0	32.4	28.2	1.6	29.3	36.1
105°	1.0	26.6	51.2	25.6	36.1	31.9	59.6	27.2	1.0	26.6	42.3
106°	1.0	25.6	74.7	24.6	31.9	30.8	87.3	25.1	1.0	25.1	63.8
107°	0.5	23.5	90.9	23.5	30.3	28.7	85.7	23.0	1.0	22.5	82.0
108°	1.0	20.9	86.7	28.7	29.8	27.2	83.1	21.9	1.0	20.9	84.7
109°	0.5	19.3	84.1	48.6	29.3	37.6	79.4	19.9	1.0	18.8	81.0
110°	1.0	17.8	78.9	82.6	48.6	74.2	76.3	17.2	1.0	16.2	78.4
111°	1.0	14.1	73.7	122.3	81.0	100.3	70.0	15.7	1.0	10.5	73.7
112°	1.0	9.9	70.0	121.2	108.2	119.7	65.3	9.4	0.5	6.8	71.1
113°	1.0	4.7	64.8	116.5	135.3	117.0	62.2	4.2	1.0	4.2	68.5
114°	1.0	3.1	61.1	112.3	130.6	111.3	58.0	3.7	1.0	3.7	65.8
115°	0.5	3.1	58.5	108.7	127.5	106.6	54.9	3.1	1.6	3.1	61.7
116°	0.5	2.6	55.9	102.4	122.3	100.3	53.8	2.6	1.0	2.6	59.0
117°	0.5	1.6	52.3	96.7	115.5	96.1	51.2	2.1	1.0	1.6	56.4
118°	1.0	1.6	50.7	92.0	111.8	90.9	48.6	1.6	1.0	1.6	51.7
119°	0.5	1.6	47.6	85.7	105.0	86.7	46.0	1.6	1.0	1.6	50.2
120°	0.5	1.6	43.4	82.0	98.2	82.0	43.9	1.6	1.0	1.6	46.0
121°	1.0	1.6	40.8	76.8	93.5	76.3	40.2	1.6	1.0	1.6	42.8
122°	1.0	1.0	38.7	74.2	88.3	73.2	37.6	1.6	1.0	1.6	40.2
123°	0.5	1.0	34.5	70.5	83.1	70.5	35.0	0.5	1.0	1.6	36.6
124°	0.5	1.0	31.9	66.4	80.5	66.4	30.8	1.6	1.6	1.6	32.9
125°	0.5	1.0	29.8	63.8	76.8	63.2	28.2	1.0	1.0	1.0	31.4
126°	1.0	0.5	21.9	60.1	71.6	60.6	21.4	1.6	1.0	1.0	24.0
127°	1.0	1.6	13.1	56.4	69.5	57.0	10.5	1.0	1.0	1.0	15.7
128°	0.5	1.0	7.3	53.8	64.8	53.3	7.3	1.0	1.0	1.0	9.9
129°	1.0	1.0	4.2	49.1	62.7	51.2	4.7	1.0	1.0	1.6	5.2
130°	1.0	1.0	3.7	44.9	58.0	47.0	3.7	1.0	1.0	1.6	5.2
131°	1.0	1.6	3.7	42.3	53.8	42.8	3.7	1.6	1.6	1.0	4.2
132°	1.0	1.0	2.6	37.6	48.1	40.2	3.1	1.6	1.6	1.6	3.1



TEST NUMBER: P579285
 CATALOG NUMBER: 4ST2L4040

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	19.3	36.6	19.3	1.6	1.6	1.6	1.6	2.1
136°	1.6	1.0	2.1	6.8	29.3	9.4	1.6	1.6	1.0	1.6	2.1
137°	1.0	1.0	1.6	4.7	14.6	5.7	1.6	1.6	1.6	1.6	2.1
138°	1.6	1.6	1.6	4.2	7.8	5.2	1.6	1.6	1.6	1.6	2.1
139°	1.6	1.6	1.6	4.2	5.7	4.2	2.1	1.6	1.6	2.1	1.6
140°	1.6	1.6	2.1	3.1	4.7	3.7	2.6	2.1	2.1	1.6	2.1
141°	1.6	2.1	2.1	2.6	4.2	3.1	2.1	2.1	2.1	2.6	2.6
142°	2.1	2.1	2.1	2.6	4.2	3.1	2.1	2.1	1.6	2.6	2.6
143°	2.1	2.1	2.1	2.1	3.1	2.6	2.1	2.1	2.1	2.1	2.6
144°	2.1	2.6	2.6	2.6	2.6	2.6	2.1	2.1	2.6	2.6	2.6
145°	2.6	2.1	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
146°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.1	3.1	2.6
147°	2.6	2.6	2.6	2.6	3.1	2.6	3.1	2.6	2.6	2.6	2.6
148°	3.1	3.1	3.1	3.1	3.1	2.6	2.6	2.6	3.1	2.6	2.6
149°	3.1	3.1	3.7	3.7	3.7	3.1	2.6	2.6	3.1	3.1	3.1
150°	3.7	3.7	3.1	3.1	3.1	3.1	3.1	3.7	3.1	3.1	3.1
151°	3.7	3.7	3.1	3.7	3.7	3.1	3.7	3.7	3.7	3.1	3.1
152°	3.1	3.7	3.7	3.7	3.7	3.1	3.7	3.7	3.7	3.7	3.7
153°	4.2	4.2	3.7	3.7	4.2	3.7	3.7	3.1	3.7	3.7	3.7
154°	4.2	4.2	4.2	3.7	4.2	3.7	3.1	3.7	3.7	3.7	4.2
155°	4.2	4.7	4.7	3.7	4.2	3.7	3.7	4.2	4.2	4.2	3.7
156°	4.2	4.2	4.7	4.7	4.2	4.2	3.7	4.2	4.2	4.2	3.7
157°	4.7	4.7	4.7	4.7	4.7	3.7	4.2	4.7	4.2	4.2	4.2
158°	4.7	5.2	4.7	4.7	5.2	4.2	4.7	4.2	4.7	4.7	4.2
159°	5.2	5.2	4.7	5.2	5.2	4.7	4.7	4.7	4.7	4.7	4.7
160°	5.2	5.2	5.7	4.7	5.2	4.2	4.7	4.7	5.2	4.7	4.7
161°	5.2	5.7	5.2	5.7	5.2	4.7	5.2	4.7	5.2	5.2	4.7
162°	5.7	5.7	5.7	5.7	5.7	4.7	5.2	4.7	5.2	4.7	4.7
163°	5.7	5.7	6.3	5.7	5.7	5.2	5.2	5.7	5.2	5.2	5.2
164°	6.3	6.3	6.8	6.3	6.3	5.7	5.7	5.2	5.7	5.7	4.7
165°	6.8	6.3	6.8	6.8	5.7	5.2	5.7	5.7	5.7	5.7	5.7
166°	6.3	6.8	6.8	6.8	6.3	5.7	5.7	6.3	5.7	5.7	5.2
167°	6.8	6.8	7.3	6.8	6.8	5.7	6.8	6.3	5.7	6.3	6.3
168°	6.8	6.8	7.3	7.3	6.8	5.7	6.8	6.3	6.3	6.3	6.3
169°	7.3	7.8	7.8	7.8	7.3	6.3	6.3	6.8	6.8	6.3	6.3
170°	7.3	7.3	8.4	7.8	7.3	6.8	7.3	6.8	7.3	6.8	6.3
171°	7.8	7.8	8.4	7.8	7.8	7.3	6.8	6.8	6.8	7.3	6.8
172°	7.8	7.3	7.8	7.8	7.3	7.8	7.3	7.3	6.8	6.8	6.8
173°	8.4	8.4	8.4	8.4	7.3	7.8	7.3	7.8	7.3	7.3	7.3
174°	7.8	8.4	8.4	8.4	7.8	7.8	7.8	7.3	7.3	7.3	7.3
175°	8.4	8.4	8.4	8.4	8.4	7.8	7.8	7.8	7.3	7.8	7.8
176°	7.8	8.4	7.8	7.8	7.8	7.8	7.8	7.8	7.3	7.8	7.3
177°	8.4	8.4	8.4	8.4	8.4	7.8	7.3	7.3	7.8	7.8	7.3



TEST NUMBER: P579285
CATALOG NUMBER: 4ST2L4040

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2



TEST NUMBER: P579285
 CATALOG NUMBER: 4ST2L4040

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0
1°	1274.5	1268.7	1246.3	1260.4	1260.9	1270.8
2°	1275.5	1267.7	1246.3	1260.4	1260.9	1270.3
3°	1274.5	1269.3	1246.8	1259.3	1260.4	1269.8
4°	1274.5	1268.7	1245.7	1259.3	1259.8	1267.2
5°	1274.0	1267.7	1244.7	1257.2	1257.2	1265.1
6°	1271.9	1267.2	1244.7	1257.2	1254.6	1261.9
7°	1269.8	1266.1	1242.6	1254.6	1252.5	1257.8
8°	1267.2	1264.0	1241.0	1251.5	1248.4	1255.7
9°	1266.1	1262.5	1238.4	1249.4	1243.6	1251.5
10°	1262.5	1261.4	1237.4	1246.8	1241.6	1244.7
11°	1258.8	1258.8	1234.2	1242.1	1236.3	1239.5
12°	1256.7	1254.6	1230.1	1237.9	1229.5	1235.3
13°	1253.1	1251.0	1228.5	1235.3	1224.8	1226.9
14°	1248.4	1249.9	1223.8	1229.5	1219.6	1219.1
15°	1245.2	1245.7	1219.1	1222.7	1211.8	1213.9
16°	1241.0	1242.6	1216.5	1219.1	1205.5	1203.9
17°	1236.9	1237.9	1212.3	1212.3	1198.7	1194.0
18°	1232.2	1234.2	1206.0	1204.5	1190.3	1188.3
19°	1225.9	1229.5	1204.5	1198.2	1184.6	1178.9
20°	1219.6	1225.9	1197.7	1192.4	1173.6	1165.8
21°	1212.8	1218.6	1191.9	1183.0	1163.7	1158.0
22°	1209.2	1214.4	1188.3	1176.2	1156.4	1148.0
23°	1200.8	1210.2	1179.9	1170.0	1143.8	1133.4
24°	1191.9	1202.9	1172.6	1159.5	1133.9	1124.0
25°	1186.7	1197.7	1168.9	1149.6	1125.0	1113.0
26°	1179.4	1191.4	1160.0	1142.8	1109.9	1096.8
27°	1169.4	1183.0	1151.7	1132.9	1099.4	1086.4
28°	1164.2	1178.3	1145.9	1121.4	1090.0	1073.3
29°	1156.9	1170.0	1137.6	1114.1	1074.3	1056.6
30°	1147.5	1160.0	1128.7	1103.1	1061.8	1046.6
31°	1142.3	1155.9	1118.8	1090.0	1051.4	1030.5
32°	1131.3	1147.0	1112.0	1081.1	1037.2	1015.8
33°	1121.9	1137.0	1104.7	1070.7	1027.8	1004.3
34°	1115.1	1131.3	1094.7	1055.5	1009.0	984.5
35°	1103.1	1123.5	1089.0	1046.6	993.9	969.8
36°	1093.2	1113.0	1077.0	1035.2	975.1	956.8
37°	1085.8	1106.2	1067.0	1020.0	963.6	935.3
38°	1073.8	1098.9	1061.3	1010.1	947.4	919.7
39°	1063.9	1089.0	1054.5	997.5	927.0	906.1
40°	1055.5	1082.7	1039.3	983.4	915.0	884.1
41°	1043.0	1070.2	1032.0	974.0	898.8	865.9
42°	1033.1	1059.7	1019.0	957.8	878.4	852.8



TEST NUMBER: P579285
 CATALOG NUMBER: 4ST2L4040

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	999.6	1023.7	986.6	917.1	829.3	791.6
46°	991.3	1014.8	976.1	904.0	815.7	777.0
47°	978.7	1006.4	967.2	893.5	799.0	753.0
48°	964.1	996.0	955.7	876.3	780.2	734.2
49°	955.7	981.9	940.6	863.2	758.7	720.1
50°	941.6	973.5	932.2	852.3	746.2	695.0
51°	928.0	962.0	919.7	834.0	728.4	675.6
52°	919.1	947.4	904.5	819.9	706.5	661.0
53°	905.0	941.1	896.2	808.9	692.4	635.9
54°	889.9	926.5	883.1	793.7	675.6	615.6
55°	880.0	913.4	867.4	776.0	653.7	600.9
56°	867.9	904.0	858.5	765.0	640.1	575.3
57°	851.2	887.8	846.0	750.4	622.9	554.4
58°	840.8	875.3	829.8	732.1	601.4	539.3
59°	828.8	864.3	823.5	721.1	587.9	519.4
60°	814.1	847.0	807.3	707.0	570.6	493.3
61°	804.7	832.4	792.7	688.7	558.1	478.1
62°	784.3	819.3	782.8	674.1	537.2	457.7
63°	768.1	799.0	764.0	663.6	518.4	432.1
64°	747.8	781.2	747.8	644.8	502.2	416.5
65°	734.2	767.6	735.2	630.2	489.1	395.6
66°	716.4	745.1	714.3	618.7	468.2	370.5
67°	693.4	723.7	696.0	603.0	452.0	354.8
68°	678.8	710.1	682.4	582.6	438.9	334.4
69°	660.0	685.1	657.9	570.1	418.0	308.8
70°	634.4	663.1	638.0	553.4	401.8	298.4
71°	618.2	646.9	622.9	530.9	388.8	272.8
72°	597.8	625.0	603.0	517.3	368.9	252.4
73°	576.4	598.3	575.8	499.5	351.7	237.2
74°	560.7	577.4	559.6	475.5	340.2	212.2
75°	534.0	561.7	538.7	460.9	320.3	192.3
76°	513.7	535.1	512.1	441.5	304.1	178.2
77°	498.0	518.9	496.4	415.9	292.6	154.1
78°	471.3	498.0	475.5	400.8	276.9	149.4
79°	449.9	472.9	449.9	380.4	256.6	122.8
80°	434.2	456.7	434.8	360.0	243.0	101.4
81°	408.6	436.3	414.4	344.9	226.3	85.2
82°	388.2	411.2	388.8	319.3	203.8	73.2
83°	373.6	401.3	374.1	299.4	189.2	58.5
84°	349.1	376.8	355.3	284.8	171.9	41.8
85°	330.2	357.9	337.0	259.7	158.3	32.9
86°	316.1	339.1	314.0	245.6	136.9	20.4
87°	297.8	320.8	301.0	227.8	120.2	12.5



TEST NUMBER: P579285
 CATALOG NUMBER: 4ST2L4040

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	245.6	270.2	247.7	179.2	81.0	2.1
91°	236.2	263.9	238.3	170.9	77.9	1.6
92°	232.5	260.2	232.0	166.2	72.6	2.1
93°	224.7	252.9	228.4	163.0	69.5	2.1
94°	220.5	248.2	222.6	157.3	61.7	1.6
95°	217.4	244.5	216.3	152.6	44.9	1.0
96°	213.2	238.3	212.7	149.4	27.2	1.6
97°	208.5	232.5	208.0	145.3	24.6	1.6
98°	204.8	228.4	201.2	128.5	29.8	1.6
99°	198.6	221.6	198.0	102.9	36.1	1.0
100°	189.2	215.8	192.3	59.0	34.0	1.0
101°	169.8	208.0	169.8	32.9	33.4	1.0
102°	106.1	175.1	139.5	30.8	31.9	1.0
103°	69.5	115.0	78.4	28.7	29.8	1.0
104°	41.8	75.8	33.4	42.3	28.2	1.0
105°	34.5	36.1	29.3	61.7	26.1	1.0
106°	34.5	32.9	27.2	88.3	26.1	1.0
107°	32.9	31.9	25.6	86.7	23.0	0.5
108°	31.9	30.8	29.3	85.7	19.9	1.0
109°	41.8	41.3	59.6	79.4	18.3	0.5
110°	68.5	63.2	93.5	75.8	15.7	1.0
111°	100.8	98.2	116.5	73.7	8.9	1.0
112°	120.2	136.9	117.6	70.0	5.7	1.0
113°	116.5	136.9	112.9	66.4	4.2	1.0
114°	112.9	131.7	109.2	63.8	2.6	1.0
115°	108.2	125.4	105.6	59.6	2.6	0.5
116°	105.0	122.3	100.3	56.4	2.1	0.5
117°	99.8	116.5	97.2	53.8	2.1	0.5
118°	96.1	112.3	93.5	49.1	1.6	1.0
119°	92.5	109.2	88.8	46.5	1.6	0.5
120°	88.3	103.5	85.2	44.4	1.6	0.5
121°	84.1	98.2	81.5	40.2	1.6	1.0
122°	80.5	94.1	76.3	37.1	1.6	1.0
123°	76.3	88.8	73.2	34.5	1.0	0.5
124°	71.1	84.1	69.0	31.4	1.0	0.5
125°	68.5	81.0	65.8	24.0	1.6	0.5
126°	63.2	75.8	62.7	18.3	1.0	1.0
127°	59.0	70.5	57.5	9.4	1.0	1.0
128°	55.9	67.9	53.3	5.2	1.0	0.5
129°	52.3	61.1	50.2	4.2	1.0	1.0
130°	47.6	57.5	45.5	3.7	1.0	1.0
131°	44.4	54.3	41.3	3.1	0.5	1.0
132°	40.2	49.6	38.1	2.6	1.6	1.0



TEST NUMBER: P579285
 CATALOG NUMBER: 4ST2L4040

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	15.7	32.9	12.0	1.6	1.0	1.0
136°	7.8	19.3	5.7	1.6	1.6	1.6
137°	5.7	12.0	4.7	1.6	1.6	1.0
138°	5.2	7.3	5.2	1.6	2.1	1.6
139°	4.2	5.7	4.7	1.6	2.1	1.6
140°	3.7	4.7	3.1	2.1	1.6	1.6
141°	3.1	4.2	2.6	1.6	2.1	1.6
142°	2.6	3.7	2.6	2.1	2.1	2.1
143°	2.1	3.1	2.6	2.1	2.1	2.1
144°	2.6	2.6	2.6	2.6	2.6	2.1
145°	2.6	2.1	2.1	2.6	2.1	2.6
146°	2.6	3.1	2.6	2.6	3.1	2.6
147°	2.6	2.6	3.1	3.1	3.1	2.6
148°	2.6	3.1	3.7	3.1	2.6	3.1
149°	2.6	3.1	3.1	3.1	3.1	3.1
150°	3.1	3.7	3.1	3.7	3.7	3.7
151°	3.7	3.1	3.7	3.7	3.7	3.7
152°	3.7	3.7	3.7	4.2	3.7	3.1
153°	3.7	3.1	3.7	4.2	4.2	4.2
154°	3.7	4.2	4.2	3.7	3.7	4.2
155°	3.7	4.2	4.2	4.2	4.2	4.2
156°	3.7	4.7	4.2	4.7	4.7	4.2
157°	4.2	4.7	5.2	4.7	4.7	4.7
158°	4.7	4.2	4.2	4.7	5.2	4.7
159°	4.7	4.7	4.2	4.7	5.2	5.2
160°	4.2	4.7	5.2	5.2	5.2	5.2
161°	5.2	5.2	5.2	5.2	5.2	5.2
162°	4.7	4.7	5.2	5.7	5.7	5.7
163°	5.2	5.7	5.7	5.7	5.7	5.7
164°	5.2	5.2	5.7	5.7	6.3	6.3
165°	4.7	5.7	6.3	6.3	6.3	6.8
166°	5.7	5.7	6.3	6.3	6.8	6.3
167°	5.7	6.3	6.3	6.8	6.8	6.8
168°	6.3	6.3	6.8	6.8	7.3	6.8
169°	6.8	6.8	7.3	7.3	7.3	7.3
170°	6.8	6.8	6.8	6.8	7.3	7.3
171°	6.8	7.3	7.3	6.8	7.3	7.8
172°	6.8	7.8	7.3	7.3	7.3	7.8
173°	7.3	7.8	7.3	7.8	7.3	8.4
174°	7.3	7.8	7.8	7.8	7.8	7.8
175°	7.8	7.8	7.8	7.8	7.8	8.4
176°	7.8	7.8	7.3	7.8	8.4	7.8
177°	7.3	7.8	8.4	7.8	7.8	8.4



TEST NUMBER: P579285
CATALOG NUMBER: 4ST2L4040

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	8.2	8.2	8.2	8.2	8.2	8.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°







43°	829.8	843.9	931.7	1007.5	1028.4	991.8	925.4	846.5	822.5	834.5	942.1
44°	810.5	828.8	916.0	996.0	1015.8	977.7	908.2	833.5	799.0	819.9	930.1



88°	8.4	103.5	201.7	260.2	290.0	264.9	190.7	99.8	8.9	109.2	221.6
89°	3.7	89.9	186.5	249.8	271.2	252.4	181.3	86.7	4.7	91.4	209.0



133°	1.0	1.0	2.1	34.0	47.0	36.6	2.6	2.1	1.6	1.6	2.6
134°	1.0	1.6	1.6	25.1	41.8	26.6	2.1	1.0	1.0	1.6	2.6



178°	7.8	7.8	8.4	8.4	8.4	7.3	7.8	7.8	7.8	7.8	7.3
179°	8.4	8.4	7.8	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.8





43°	1024.7	1047.2	1010.1	943.7	865.3	829.8
44°	1010.1	1039.3	1000.1	934.3	849.7	810.5



88°	275.4	302.0	283.2	207.4	101.4	8.4
89°	262.3	288.4	269.6	195.4	91.4	3.7



133°	32.9	44.4	28.2	2.6	1.6	1.0
134°	26.6	41.3	18.3	2.1	1.0	1.0



178°	7.8	8.4	8.4	8.4	7.8	7.8
179°	8.4	8.4	7.8	7.8	8.4	8.4



(END OF REPORT)