

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934906

Luminaire Tested: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934906
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

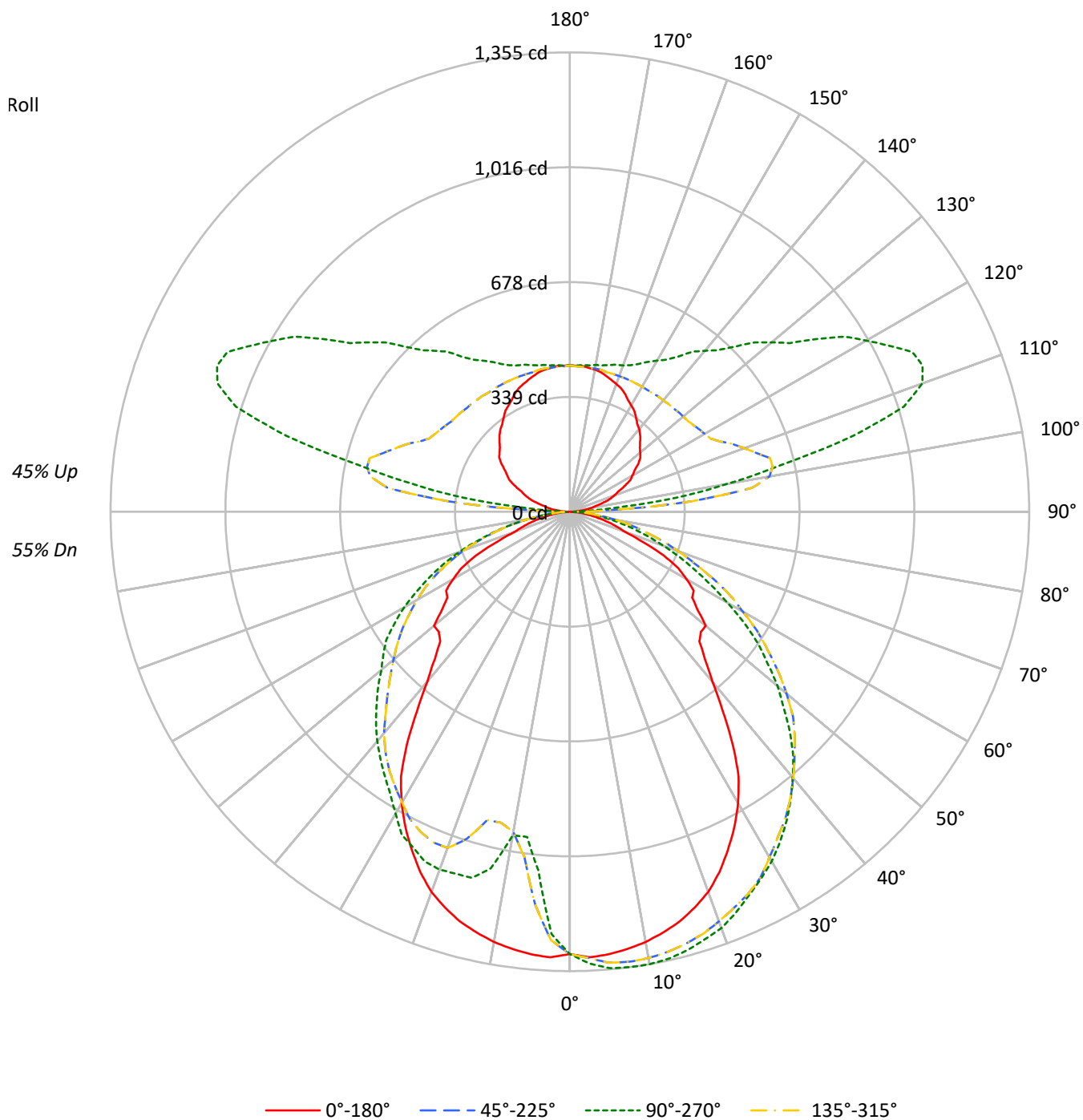
Lumens per Lamp: N/A
Luminaire Lumens: 6180.3 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.2
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: 24 FT

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12103	12103	12103	12103
5°	12181	12218	12181	9607
10°	12087	12036	12087	8604
15°	11941	11774	11941	9832
20°	11677	11466	11677	9852
25°	11153	11016	11153	9643
30°	10480	10642	10480	9186
35°	9328	10169	9328	8682
40°	7760	9611	7760	8301
45°	6920	8959	6920	7864
50°	7334	8182	7334	7424
55°	6882	7344	6882	7170
60°	7067	6237	7067	6567
65°	6379	5155	6379	5763
70°	4387	4110	4387	4832
75°	3804	3037	3804	3637
80°	3005	2009	3005	2188
85°	1631	1062	1631	903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 10627 cd/sqm

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	1.9
10°-20°	334.3	5.4
20°-30°	516.8	8.4
30°-40°	616.9	10.0
40°-50°	620.5	10.0
50°-60°	539.9	8.7
60°-70°	382.8	6.2
70°-80°	202.5	3.3
80°-90°	52.1	0.8
90°-100°	210.3	3.4
100°-110°	552.9	8.9
110°-120°	573.3	9.3
120°-130°	459.8	7.4
130°-140°	360.8	5.8
140°-150°	276.9	4.5
150°-160°	199.4	3.2
160°-170°	122.0	2.0
170°-180°	41.2	0.7
0°-30°	968.8	15.7
0°-40°	1585.7	25.7
0°-60°	2746.2	44.4
0°-90°	3383.7	54.7
90°-120°	1336.4	21.6
90°-150°	2433.9	39.4
90°-180°	2797.0	45.3
0°-180°	6180.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1304	1304	1304	1304	1304	
5°	1311	1351	1311	1062	1311	124
15°	1251	1339	1251	1118	1251	352
25°	1102	1249	1102	1093	1102	506
35°	838	1114	838	952	838	518
45°	540	918	540	806	540	433
55°	441	678	441	662	441	405
65°	306	408	306	457	306	292
75°	116	194	116	232	116	122
85°	20	49	20	42	20	27
90°	3	11	3	11	3	3
95°	28	127	28	127	28	31
105°	100	866	100	866	100	106
115°	177	1115	177	1115	177	175
125°	246	888	246	888	246	219
135°	293	689	293	689	293	227
145°	340	559	340	559	340	213
155°	384	481	384	481	384	177
165°	415	448	415	448	415	117
175°	431	434	431	434	431	41
180°	431	431	431	431	431	

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1315.4	1315.4	1322.9	1325.3	1325.3	1321.6	1318.0	1321.6	1332.7	1336.5	1335.2
5°	1310.6	1320.4	1334.0	1336.5	1338.9	1337.7	1335.2	1337.7	1350.0	1352.5	1353.7
7.5°	1300.7	1319.2	1336.5	1340.2	1343.8	1340.2	1338.9	1341.4	1353.7	1356.2	1356.2
10°	1288.4	1314.2	1334.0	1336.5	1340.2	1336.5	1336.5	1341.4	1353.7	1356.2	1357.5
12.5°	1271.1	1306.9	1325.3	1327.9	1332.7	1331.5	1330.3	1335.2	1347.6	1350.0	1350.0
15°	1251.3	1293.3	1310.6	1313.0	1321.6	1319.2	1319.2	1324.1	1337.7	1341.4	1340.2
17.5°	1224.2	1276.0	1295.7	1299.5	1305.6	1304.3	1305.6	1310.6	1322.9	1325.3	1326.6
20°	1193.3	1252.6	1276.0	1279.7	1285.8	1285.8	1285.8	1292.0	1304.3	1309.3	1309.3
22.5°	1151.3	1227.8	1252.6	1255.0	1262.4	1262.4	1264.9	1273.5	1284.6	1285.8	1285.8
25°	1102.0	1200.8	1221.7	1229.1	1236.5	1240.2	1243.9	1248.9	1252.6	1251.3	1252.6
27.5°	1050.2	1166.2	1193.3	1198.2	1208.1	1211.9	1216.7	1218.0	1219.2	1222.9	1220.5
30°	992.2	1118.0	1158.7	1163.7	1179.7	1182.2	1177.3	1179.7	1185.9	1188.4	1190.9
32.5°	926.7	1046.5	1122.9	1134.1	1148.9	1141.4	1140.2	1144.0	1153.9	1153.9	1156.3
35°	837.9	991.0	1089.7	1099.5	1110.6	1102.0	1106.9	1108.2	1114.4	1118.0	1116.8
37.5°	740.4	942.8	1055.1	1062.5	1071.1	1060.0	1067.5	1071.1	1076.1	1073.6	1073.6
40°	654.1	867.5	1014.4	1019.3	1026.7	1018.1	1025.4	1028.0	1030.4	1028.0	1026.7
42.5°	589.9	784.8	971.2	977.3	972.4	978.6	981.1	986.0	982.3	977.3	977.3
45°	540.5	762.6	924.3	931.7	924.3	934.2	937.8	937.8	926.7	924.3	923.1
47.5°	524.4	718.2	877.4	877.4	873.7	886.0	892.3	883.6	872.4	868.8	868.8
50°	523.2	668.8	813.2	808.3	825.6	840.4	834.2	825.6	817.0	803.3	803.3
52.5°	475.1	608.4	730.6	749.1	776.2	784.8	774.9	766.3	751.5	745.3	740.4
55°	440.6	545.5	655.3	692.3	720.7	731.8	713.3	704.6	682.4	678.7	676.2
57.5°	433.2	454.1	586.2	633.1	667.6	666.4	655.3	639.2	620.7	617.0	615.8
60°	397.3	328.2	512.1	567.7	603.5	599.7	589.9	575.1	557.8	555.4	552.8
62.5°	360.3	238.2	428.2	491.2	541.7	540.5	531.9	509.7	497.4	491.2	486.2
65°	306.1	199.9	304.8	408.4	481.3	483.7	465.2	449.2	435.6	428.2	426.9
67.5°	233.2	162.9	206.0	340.6	423.3	420.8	397.3	389.9	372.7	368.9	361.6
70°	172.8	108.6	143.2	276.5	366.5	360.3	341.8	333.2	317.2	308.5	303.6
72.5°	143.2	87.6	104.9	214.7	308.5	301.1	285.1	275.2	261.6	254.2	249.3
75°	116.0	92.6	80.2	159.2	250.5	245.5	230.8	220.9	209.8	199.9	201.2
77.5°	85.2	86.4	64.2	117.2	198.7	191.3	182.6	170.3	165.3	155.5	155.5
80°	64.2	67.9	48.1	80.2	143.2	143.2	135.7	127.1	118.4	113.6	113.6
82.5°	43.2	43.2	35.8	50.6	97.5	93.8	88.8	86.4	81.4	79.0	79.0
85°	19.7	24.7	22.2	30.8	53.1	55.6	55.6	53.1	51.8	49.3	50.6
87.5°	6.2	11.1	13.5	17.3	27.2	28.4	29.6	29.6	29.6	30.8	30.8
90°	2.9	5.2	7.6	8.1	12.8	19.0	22.0	19.6	14.7	11.0	11.0
92.5°	11.6	31.3	50.9	55.9	78.5	108.8	123.9	108.6	78.0	55.0	52.9
95°	27.8	63.9	99.9	108.9	193.3	305.9	362.2	323.2	245.2	186.7	180.1
97.5°	48.1	79.9	111.6	119.6	260.4	448.1	542.0	517.3	468.1	431.1	418.5
100°	63.7	92.5	121.3	128.5	284.8	493.2	597.3	599.1	602.7	605.4	590.4
102.5°	77.1	104.0	130.8	137.5	296.0	507.3	613.0	644.4	707.1	754.2	741.3
105°	99.6	122.4	145.1	150.8	304.3	508.9	611.2	681.6	822.4	927.9	921.0
107.5°	122.7	144.0	165.2	170.5	305.9	486.2	576.5	674.6	871.0	1018.2	1019.9
110°	138.4	157.6	176.8	181.6	303.6	466.2	547.5	657.3	876.7	1041.4	1048.6

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.7	172.0	190.3	194.8	303.6	448.7	521.2	633.5	858.2	1026.7	1037.8
115°	176.9	193.7	210.6	214.8	306.4	428.5	489.6	597.9	814.3	976.6	991.9
117.5°	199.8	215.1	230.4	234.2	312.1	415.9	467.8	565.5	760.8	907.4	924.4
120°	213.1	227.5	241.9	245.5	316.7	411.7	459.2	548.4	726.9	860.8	877.3
122.5°	226.1	240.7	255.2	258.8	323.4	409.5	452.5	532.8	693.6	814.2	830.5
125°	246.1	259.4	272.6	275.9	332.4	407.7	445.3	513.6	650.2	752.5	767.6
127.5°	262.4	275.7	289.1	292.4	341.4	406.7	439.3	497.9	615.1	703.0	715.7
130°	271.0	285.4	299.8	303.5	347.9	407.2	436.9	489.1	593.5	671.7	683.4
132.5°	280.0	294.4	308.8	312.4	353.2	407.7	434.9	481.6	575.1	645.1	655.6
135°	293.3	306.4	319.5	322.8	359.0	407.3	431.4	470.5	548.8	607.5	616.5
137.5°	306.9	319.9	332.9	336.1	367.7	409.8	430.9	463.9	530.0	579.6	587.0
140°	318.2	330.2	342.1	345.1	373.0	410.2	428.8	457.4	514.4	557.3	564.2
142.5°	326.9	337.9	348.9	351.7	377.4	411.7	428.8	453.9	504.1	541.7	547.7
145°	340.2	349.9	359.5	361.9	383.2	411.7	425.9	446.5	487.5	518.3	522.8
147.5°	353.5	362.9	372.3	374.6	391.7	414.5	425.9	442.1	474.4	498.6	502.3
150°	362.2	370.7	379.2	381.4	396.2	416.0	425.9	439.5	466.8	487.3	490.3
152.5°	371.2	377.6	384.1	385.6	399.1	416.9	425.9	437.6	460.8	478.3	480.5
155°	384.5	389.3	394.0	395.2	405.4	419.1	425.9	435.2	453.6	467.6	469.1
157.5°	394.3	399.0	403.7	404.8	411.8	421.2	425.9	433.1	447.5	458.3	459.3
160°	401.0	404.6	408.2	409.1	414.7	422.2	425.9	432.1	444.5	453.7	454.3
162.5°	407.7	410.4	413.1	413.8	417.8	423.2	425.9	431.1	441.5	449.3	449.9
165°	414.9	417.3	419.7	420.4	422.3	424.7	425.9	429.6	437.1	442.7	443.4
167.5°	421.5	422.6	423.8	424.1	425.7	427.8	428.8	431.2	436.2	439.8	440.1
170°	425.9	427.0	428.2	428.5	428.6	428.7	428.8	431.2	436.2	439.8	439.8
172.5°	428.2	428.5	428.7	428.8	428.8	428.8	428.8	430.8	434.6	437.5	437.3
175°	431.4	431.4	431.4	431.4	430.6	429.4	428.8	430.0	432.4	434.3	434.3
177.5°	431.4	431.4	431.4	431.4	430.8	429.8	429.4	430.3	432.3	433.7	433.5
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1337.7	1334.0	1337.7	1335.2	1336.5	1332.7	1321.6	1318.0	1321.6	1325.3	1325.3
5°	1353.7	1351.3	1353.7	1353.7	1352.5	1350.0	1337.7	1335.2	1337.7	1338.9	1336.5
7.5°	1358.7	1355.0	1358.7	1356.2	1356.2	1353.7	1341.4	1338.9	1340.2	1343.8	1340.2
10°	1358.7	1355.0	1358.7	1357.5	1356.2	1353.7	1341.4	1336.5	1336.5	1340.2	1336.5
12.5°	1352.5	1350.0	1352.5	1350.0	1350.0	1347.6	1335.2	1330.3	1331.5	1332.7	1327.9
15°	1342.6	1338.9	1342.6	1340.2	1341.4	1337.7	1324.1	1319.2	1319.2	1321.6	1313.0
17.5°	1327.9	1322.9	1327.9	1326.6	1325.3	1322.9	1310.6	1305.6	1304.3	1305.6	1299.5
20°	1310.6	1306.9	1310.6	1309.3	1309.3	1304.3	1292.0	1285.8	1285.8	1285.8	1279.7
22.5°	1283.4	1279.7	1283.4	1285.8	1285.8	1284.6	1273.5	1264.9	1262.4	1262.4	1255.0
25°	1252.6	1248.9	1252.6	1252.6	1251.3	1252.6	1248.9	1243.9	1240.2	1236.5	1229.1
27.5°	1222.9	1220.5	1222.9	1220.5	1222.9	1219.2	1218.0	1216.7	1211.9	1208.1	1198.2
30°	1193.3	1190.9	1193.3	1190.9	1188.4	1185.9	1179.7	1177.3	1182.2	1179.7	1163.7
32.5°	1156.3	1153.9	1156.3	1156.3	1153.9	1153.9	1144.0	1140.2	1141.4	1148.9	1134.1
35°	1118.0	1114.4	1118.0	1116.8	1118.0	1114.4	1108.2	1106.9	1102.0	1110.6	1099.5
37.5°	1073.6	1069.9	1073.6	1073.6	1073.6	1076.1	1071.1	1067.5	1060.0	1071.1	1062.5
40°	1028.0	1023.0	1028.0	1026.7	1028.0	1030.4	1028.0	1025.4	1018.1	1026.7	1019.3
42.5°	976.1	974.9	976.1	977.3	977.3	982.3	986.0	981.1	978.6	972.4	977.3
45°	920.6	918.1	920.6	923.1	924.3	926.7	937.8	937.8	934.2	924.3	931.7
47.5°	861.3	855.2	861.3	868.8	868.8	872.4	883.6	892.3	886.0	873.7	877.4
50°	798.4	799.7	798.4	803.3	803.3	817.0	825.6	834.2	840.4	825.6	808.3
52.5°	736.7	735.5	736.7	740.4	745.3	751.5	766.3	774.9	784.8	776.2	749.1
55°	675.0	677.5	675.0	676.2	678.7	682.4	704.6	713.3	731.8	720.7	692.3
57.5°	613.4	609.6	613.4	615.8	617.0	620.7	639.2	655.3	666.4	667.6	633.1
60°	541.7	536.8	541.7	552.8	555.4	557.8	575.1	589.9	599.7	603.5	567.7
62.5°	478.8	470.2	478.8	486.2	491.2	497.4	509.7	531.9	540.5	541.7	491.2
65°	412.2	408.4	412.2	426.9	428.2	435.6	449.2	465.2	483.7	481.3	408.4
67.5°	351.7	351.7	351.7	361.6	368.9	372.7	389.9	397.3	420.8	423.3	340.6
70°	296.2	295.0	296.2	303.6	308.5	317.2	333.2	341.8	360.3	366.5	276.5
72.5°	243.1	241.9	243.1	249.3	254.2	261.6	275.2	285.1	301.1	308.5	214.7
75°	196.2	193.7	196.2	201.2	199.9	209.8	220.9	230.8	245.5	250.5	159.2
77.5°	150.6	150.6	150.6	155.5	155.5	165.3	170.3	182.6	191.3	198.7	117.2
80°	112.3	111.1	112.3	113.6	113.6	118.4	127.1	135.7	143.2	143.2	80.2
82.5°	79.0	76.5	79.0	79.0	79.0	81.4	86.4	88.8	93.8	97.5	50.6
85°	49.3	49.3	49.3	50.6	49.3	51.8	53.1	55.6	55.6	53.1	30.8
87.5°	32.1	30.8	32.1	30.8	30.8	29.6	29.6	29.6	28.4	27.2	17.3
90°	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.0	19.0	12.8	8.1
92.5°	44.1	35.3	44.1	52.9	55.0	78.0	108.6	123.9	108.8	78.5	55.9
95°	153.6	127.1	153.6	180.1	186.7	245.2	323.2	362.2	305.9	193.3	108.9
97.5°	368.1	317.7	368.1	418.5	431.1	468.1	517.3	542.0	448.1	260.4	119.6
100°	530.3	470.2	530.3	590.4	605.4	602.7	599.1	597.3	493.2	284.8	128.5
102.5°	689.9	638.4	689.9	741.3	754.2	707.1	644.4	613.0	507.3	296.0	137.5
105°	893.4	865.7	893.4	921.0	927.9	822.4	681.6	611.2	508.9	304.3	150.8
107.5°	1026.7	1033.4	1026.7	1019.9	1018.2	871.0	674.6	576.5	486.2	305.9	170.5
110°	1077.5	1106.3	1077.5	1048.6	1041.4	876.7	657.3	547.5	466.2	303.6	181.6

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1082.0	1126.3	1082.0	1037.8	1026.7	858.2	633.5	521.2	448.7	303.6	194.8
115°	1053.4	1114.7	1053.4	991.9	976.6	814.3	597.9	489.6	428.5	306.4	214.8
117.5°	992.5	1060.6	992.5	924.4	907.4	760.8	565.5	467.8	415.9	312.1	234.2
120°	943.4	1009.6	943.4	877.3	860.8	726.9	548.4	459.2	411.7	316.7	245.5
122.5°	895.7	961.0	895.7	830.5	814.2	693.6	532.8	452.5	409.5	323.4	258.8
125°	827.6	887.7	827.6	767.6	752.5	650.2	513.6	445.3	407.7	332.4	275.9
127.5°	766.3	817.1	766.3	715.7	703.0	615.1	497.9	439.3	406.7	341.4	292.4
130°	730.3	777.1	730.3	683.4	671.7	593.5	489.1	436.9	407.2	347.9	303.5
132.5°	697.5	739.4	697.5	655.6	645.1	575.1	481.6	434.9	407.7	353.2	312.4
135°	652.7	688.8	652.7	616.5	607.5	548.8	470.5	431.4	407.3	359.0	322.8
137.5°	616.6	646.2	616.6	587.0	579.6	530.0	463.9	430.9	409.8	367.7	336.1
140°	592.0	619.6	592.0	564.2	557.3	514.4	457.4	428.8	410.2	373.0	345.1
142.5°	571.4	595.2	571.4	547.7	541.7	504.1	453.9	428.8	411.7	377.4	351.7
145°	540.8	558.8	540.8	522.8	518.3	487.5	446.5	425.9	411.7	383.2	361.9
147.5°	517.2	532.2	517.2	502.3	498.6	474.4	442.1	425.9	414.5	391.7	374.6
150°	502.4	514.5	502.4	490.3	487.3	466.8	439.5	425.9	416.0	396.2	381.4
152.5°	489.7	498.8	489.7	480.5	478.3	460.8	437.6	425.9	416.9	399.1	385.6
155°	475.1	481.2	475.1	469.1	467.6	453.6	435.2	425.9	419.1	405.4	395.2
157.5°	463.6	467.8	463.6	459.3	458.3	447.5	433.1	425.9	421.2	411.8	404.8
160°	456.7	459.2	456.7	454.3	453.7	444.5	432.1	425.9	422.2	414.7	409.1
162.5°	452.2	454.6	452.2	449.9	449.3	441.5	431.1	425.9	423.2	417.8	413.8
165°	445.8	448.2	445.8	443.4	442.7	437.1	429.6	425.9	424.7	422.3	420.4
167.5°	441.1	442.2	441.1	440.1	439.8	436.2	431.2	428.8	427.8	425.7	424.1
170°	439.8	439.8	439.8	439.8	439.8	436.2	431.2	428.8	428.7	428.6	428.5
172.5°	436.4	435.4	436.4	437.3	437.5	434.6	430.8	428.8	428.8	428.8	428.8
175°	434.3	434.3	434.3	434.3	434.3	432.4	430.0	428.8	429.4	430.6	431.4
177.5°	432.4	431.4	432.4	433.5	433.7	432.3	430.3	429.4	429.8	430.8	431.4
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1322.9	1315.4	1315.4	1303.1	1298.2	1294.5	1288.4	1269.9	1264.9	1260.0	1267.3
5°	1334.0	1320.4	1310.6	1288.4	1269.9	1262.4	1239.0	1194.6	1164.9	1142.7	1130.4
7.5°	1336.5	1319.2	1300.7	1266.1	1221.7	1202.0	1130.4	1049.0	1026.7	1006.9	994.6
10°	1334.0	1314.2	1288.4	1236.5	1131.6	1097.1	1025.4	972.4	958.8	955.1	958.8
12.5°	1325.3	1306.9	1271.1	1184.7	1037.9	1014.4	972.4	941.6	939.1	945.3	978.6
15°	1310.6	1293.3	1251.3	1115.6	986.0	968.7	939.1	928.0	941.6	984.7	1084.7
17.5°	1295.7	1276.0	1224.2	1047.7	946.5	934.2	913.2	935.4	1011.9	1069.9	1103.2
20°	1276.0	1252.6	1193.3	998.4	918.1	907.0	897.1	997.1	1055.1	1076.1	1094.6
22.5°	1252.6	1227.8	1151.3	963.8	888.5	879.8	886.0	1031.7	1055.1	1069.9	1086.0
25°	1221.7	1200.8	1102.0	936.6	865.1	855.2	878.6	1028.0	1041.5	1045.2	1077.3
27.5°	1193.3	1166.2	1050.2	912.0	836.7	832.9	884.8	1011.9	1021.8	1025.4	1060.0
30°	1158.7	1118.0	992.2	886.0	807.1	805.9	886.0	992.2	989.7	999.6	1034.1
32.5°	1122.9	1046.5	926.7	854.0	778.7	777.5	877.4	962.6	960.1	973.7	999.6
35°	1089.7	991.0	837.9	817.0	742.9	744.1	856.4	928.0	929.2	941.6	957.6
37.5°	1055.1	942.8	740.4	776.2	708.3	708.3	828.0	895.9	893.5	897.1	919.3
40°	1014.4	867.5	654.1	723.1	676.2	672.6	793.5	861.3	852.7	851.5	882.3
42.5°	971.2	784.8	589.9	652.8	639.2	634.3	751.5	819.4	803.3	807.1	846.6
45°	924.3	762.6	540.5	551.6	600.9	597.3	705.8	771.3	760.2	770.1	810.8
47.5°	877.4	718.2	524.4	457.8	560.2	559.0	655.3	724.4	718.2	728.1	771.3
50°	813.2	668.8	523.2	392.5	514.6	519.5	594.8	678.7	678.7	687.3	733.0
52.5°	730.6	608.4	475.1	355.4	461.5	476.3	541.7	639.2	641.7	650.3	691.1
55°	655.3	545.5	440.6	327.0	398.6	430.7	489.9	598.5	603.5	612.1	649.1
57.5°	586.2	454.1	433.2	293.7	340.6	371.5	444.2	559.0	561.5	568.9	604.7
60°	512.1	328.2	397.3	257.9	290.0	313.5	402.3	512.1	520.8	525.7	556.6
62.5°	428.2	238.2	360.3	233.2	265.3	270.3	367.7	467.7	478.8	482.5	501.0
65°	304.8	199.9	306.1	212.3	239.4	240.6	330.7	422.1	431.9	438.0	451.7
67.5°	206.0	162.9	233.2	192.5	219.7	220.9	295.0	368.9	382.6	387.5	396.1
70°	143.2	108.6	172.8	171.6	197.4	199.9	256.7	320.8	333.2	336.9	341.8
72.5°	104.9	87.6	143.2	154.3	174.0	176.4	217.2	266.6	278.9	282.6	285.1
75°	80.2	92.6	116.0	134.5	148.0	149.3	177.7	217.2	225.8	228.3	229.5
77.5°	64.2	86.4	85.2	108.6	121.0	118.4	139.4	167.8	175.2	175.2	175.2
80°	48.1	67.9	64.2	77.7	88.8	86.4	99.9	119.7	122.2	124.6	123.4
82.5°	35.8	43.2	43.2	49.3	59.2	56.8	66.6	77.7	77.7	77.7	80.2
85°	22.2	24.7	19.7	25.9	33.3	32.1	37.0	41.9	43.2	43.2	40.7
87.5°	13.5	11.1	6.2	9.9	14.9	14.9	17.3	18.5	17.3	17.3	17.3
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.8	19.0	22.0	19.6	14.7
92.5°	50.9	31.3	11.6	31.3	50.9	55.9	78.5	108.8	123.9	108.6	78.0
95°	99.9	63.9	27.8	63.9	99.9	108.9	193.3	305.9	362.2	323.2	245.2
97.5°	111.6	79.9	48.1	79.9	111.6	119.6	260.4	448.1	542.0	517.3	468.1
100°	121.3	92.5	63.7	92.5	121.3	128.5	284.8	493.2	597.3	599.1	602.7
102.5°	130.8	104.0	77.1	104.0	130.8	137.5	296.0	507.3	613.0	644.4	707.1
105°	145.1	122.4	99.6	122.4	145.1	150.8	304.3	508.9	611.2	681.6	822.4
107.5°	165.2	144.0	122.7	144.0	165.2	170.5	305.9	486.2	576.5	674.6	871.0
110°	176.8	157.6	138.4	157.6	176.8	181.6	303.6	466.2	547.5	657.3	876.7

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	190.3	172.0	153.7	172.0	190.3	194.8	303.6	448.7	521.2	633.5	858.2
115°	210.6	193.7	176.9	193.7	210.6	214.8	306.4	428.5	489.6	597.9	814.3
117.5°	230.4	215.1	199.8	215.1	230.4	234.2	312.1	415.9	467.8	565.5	760.8
120°	241.9	227.5	213.1	227.5	241.9	245.5	316.7	411.7	459.2	548.4	726.9
122.5°	255.2	240.7	226.1	240.7	255.2	258.8	323.4	409.5	452.5	532.8	693.6
125°	272.6	259.4	246.1	259.4	272.6	275.9	332.4	407.7	445.3	513.6	650.2
127.5°	289.1	275.7	262.4	275.7	289.1	292.4	341.4	406.7	439.3	497.9	615.1
130°	299.8	285.4	271.0	285.4	299.8	303.5	347.9	407.2	436.9	489.1	593.5
132.5°	308.8	294.4	280.0	294.4	308.8	312.4	353.2	407.7	434.9	481.6	575.1
135°	319.5	306.4	293.3	306.4	319.5	322.8	359.0	407.3	431.4	470.5	548.8
137.5°	332.9	319.9	306.9	319.9	332.9	336.1	367.7	409.8	430.9	463.9	530.0
140°	342.1	330.2	318.2	330.2	342.1	345.1	373.0	410.2	428.8	457.4	514.4
142.5°	348.9	337.9	326.9	337.9	348.9	351.7	377.4	411.7	428.8	453.9	504.1
145°	359.5	349.9	340.2	349.9	359.5	361.9	383.2	411.7	425.9	446.5	487.5
147.5°	372.3	362.9	353.5	362.9	372.3	374.6	391.7	414.5	425.9	442.1	474.4
150°	379.2	370.7	362.2	370.7	379.2	381.4	396.2	416.0	425.9	439.5	466.8
152.5°	384.1	377.6	371.2	377.6	384.1	385.6	399.1	416.9	425.9	437.6	460.8
155°	394.0	389.3	384.5	389.3	394.0	395.2	405.4	419.1	425.9	435.2	453.6
157.5°	403.7	399.0	394.3	399.0	403.7	404.8	411.8	421.2	425.9	433.1	447.5
160°	408.2	404.6	401.0	404.6	408.2	409.1	414.7	422.2	425.9	432.1	444.5
162.5°	413.1	410.4	407.7	410.4	413.1	413.8	417.8	423.2	425.9	431.1	441.5
165°	419.7	417.3	414.9	417.3	419.7	420.4	422.3	424.7	425.9	429.6	437.1
167.5°	423.8	422.6	421.5	422.6	423.8	424.1	425.7	427.8	428.8	431.2	436.2
170°	428.2	427.0	425.9	427.0	428.2	428.5	428.6	428.7	428.8	431.2	436.2
172.5°	428.7	428.5	428.2	428.5	428.7	428.8	428.8	428.8	428.8	430.8	434.6
175°	431.4	431.4	431.4	431.4	431.4	431.4	430.6	429.4	428.8	430.0	432.4
177.5°	431.4	431.4	431.4	431.4	431.4	431.4	430.8	429.8	429.4	430.3	432.3
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1258.8	1255.0	1260.0	1246.3	1260.0	1255.0	1258.8	1267.3	1260.0	1264.9	1269.9
5°	1104.5	1098.3	1078.6	1062.5	1078.6	1098.3	1104.5	1130.4	1142.7	1164.9	1194.6
7.5°	987.2	982.3	977.3	967.4	977.3	982.3	987.2	994.6	1006.9	1026.7	1049.0
10°	961.3	962.6	970.0	968.7	970.0	962.6	961.3	958.8	955.1	958.8	972.4
12.5°	1028.0	1039.1	1079.8	1077.3	1079.8	1039.1	1028.0	978.6	945.3	939.1	941.6
15°	1104.5	1108.2	1116.8	1118.0	1116.8	1108.2	1104.5	1084.7	984.7	941.6	928.0
17.5°	1111.8	1113.1	1119.3	1119.3	1119.3	1113.1	1111.8	1103.2	1069.9	1011.9	935.4
20°	1105.7	1108.2	1120.5	1122.9	1120.5	1108.2	1105.7	1094.6	1076.1	1055.1	997.1
22.5°	1103.2	1108.2	1118.0	1116.8	1118.0	1108.2	1103.2	1086.0	1069.9	1055.1	1031.7
25°	1090.9	1090.9	1092.1	1093.3	1092.1	1090.9	1090.9	1077.3	1045.2	1041.5	1028.0
27.5°	1064.9	1067.5	1074.8	1073.6	1074.8	1067.5	1064.9	1060.0	1025.4	1021.8	1011.9
30°	1041.5	1039.1	1032.9	1028.0	1032.9	1039.1	1041.5	1034.1	999.6	989.7	992.2
32.5°	1002.0	995.8	989.7	986.0	989.7	995.8	1002.0	999.6	973.7	960.1	962.6
35°	955.1	956.4	955.1	951.5	955.1	956.4	955.1	957.6	941.6	929.2	928.0
37.5°	921.9	924.3	923.1	918.1	923.1	924.3	921.9	919.3	897.1	893.5	895.9
40°	887.3	888.5	887.3	883.6	887.3	888.5	887.3	882.3	851.5	852.7	861.3
42.5°	854.0	852.7	849.0	846.6	849.0	852.7	854.0	846.6	807.1	803.3	819.4
45°	815.7	817.0	809.5	805.9	809.5	817.0	815.7	810.8	770.1	760.2	771.3
47.5°	777.5	777.5	771.3	767.6	771.3	777.5	777.5	771.3	728.1	718.2	724.4
50°	736.7	735.5	726.8	725.6	726.8	735.5	736.7	733.0	687.3	678.7	678.7
52.5°	689.9	689.9	691.1	693.5	691.1	689.9	689.9	691.1	650.3	641.7	639.2
55°	649.1	650.3	658.9	661.5	658.9	650.3	649.1	649.1	612.1	603.5	598.5
57.5°	607.1	607.1	613.4	613.4	613.4	607.1	607.1	604.7	568.9	561.5	559.0
60°	559.0	561.5	566.4	565.2	566.4	561.5	559.0	556.6	525.7	520.8	512.1
62.5°	508.4	510.9	512.1	509.7	512.1	510.9	508.4	501.0	482.5	478.8	467.7
65°	455.3	457.8	459.1	456.6	459.1	457.8	455.3	451.7	438.0	431.9	422.1
67.5°	401.1	399.8	398.6	403.5	398.6	399.8	401.1	396.1	387.5	382.6	368.9
70°	345.5	345.5	344.3	346.8	344.3	345.5	345.5	341.8	336.9	333.2	320.8
72.5°	286.3	285.1	290.0	286.3	290.0	285.1	286.3	285.1	282.6	278.9	266.6
75°	228.3	230.8	228.3	232.0	228.3	230.8	228.3	229.5	228.3	225.8	217.2
77.5°	174.0	176.4	174.0	174.0	174.0	176.4	174.0	175.2	175.2	175.2	167.8
80°	123.4	122.2	122.2	121.0	122.2	122.2	123.4	123.4	124.6	122.2	119.7
82.5°	79.0	77.7	77.7	80.2	77.7	77.7	79.0	80.2	77.7	77.7	77.7
85°	43.2	44.5	41.9	41.9	41.9	44.5	43.2	40.7	43.2	43.2	41.9
87.5°	16.1	14.9	14.9	14.9	14.9	14.9	16.1	17.3	17.3	17.3	18.5
90°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.0	19.0
92.5°	55.0	52.9	44.1	35.3	44.1	52.9	55.0	78.0	108.6	123.9	108.8
95°	186.7	180.1	153.6	127.1	153.6	180.1	186.7	245.2	323.2	362.2	305.9
97.5°	431.1	418.5	368.1	317.7	368.1	418.5	431.1	468.1	517.3	542.0	448.1
100°	605.4	590.4	530.3	470.2	530.3	590.4	605.4	602.7	599.1	597.3	493.2
102.5°	754.2	741.3	689.9	638.4	689.9	741.3	754.2	707.1	644.4	613.0	507.3
105°	927.9	921.0	893.4	865.7	893.4	921.0	927.9	822.4	681.6	611.2	508.9
107.5°	1018.2	1019.9	1026.7	1033.4	1026.7	1019.9	1018.2	871.0	674.6	576.5	486.2
110°	1041.4	1048.6	1077.5	1106.3	1077.5	1048.6	1041.4	876.7	657.3	547.5	466.2

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1026.7	1037.8	1082.0	1126.3	1082.0	1037.8	1026.7	858.2	633.5	521.2	448.7
115°	976.6	991.9	1053.4	1114.7	1053.4	991.9	976.6	814.3	597.9	489.6	428.5
117.5°	907.4	924.4	992.5	1060.6	992.5	924.4	907.4	760.8	565.5	467.8	415.9
120°	860.8	877.3	943.4	1009.6	943.4	877.3	860.8	726.9	548.4	459.2	411.7
122.5°	814.2	830.5	895.7	961.0	895.7	830.5	814.2	693.6	532.8	452.5	409.5
125°	752.5	767.6	827.6	887.7	827.6	767.6	752.5	650.2	513.6	445.3	407.7
127.5°	703.0	715.7	766.3	817.1	766.3	715.7	703.0	615.1	497.9	439.3	406.7
130°	671.7	683.4	730.3	777.1	730.3	683.4	671.7	593.5	489.1	436.9	407.2
132.5°	645.1	655.6	697.5	739.4	697.5	655.6	645.1	575.1	481.6	434.9	407.7
135°	607.5	616.5	652.7	688.8	652.7	616.5	607.5	548.8	470.5	431.4	407.3
137.5°	579.6	587.0	616.6	646.2	616.6	587.0	579.6	530.0	463.9	430.9	409.8
140°	557.3	564.2	592.0	619.6	592.0	564.2	557.3	514.4	457.4	428.8	410.2
142.5°	541.7	547.7	571.4	595.2	571.4	547.7	541.7	504.1	453.9	428.8	411.7
145°	518.3	522.8	540.8	558.8	540.8	522.8	518.3	487.5	446.5	425.9	411.7
147.5°	498.6	502.3	517.2	532.2	517.2	502.3	498.6	474.4	442.1	425.9	414.5
150°	487.3	490.3	502.4	514.5	502.4	490.3	487.3	466.8	439.5	425.9	416.0
152.5°	478.3	480.5	489.7	498.8	489.7	480.5	478.3	460.8	437.6	425.9	416.9
155°	467.6	469.1	475.1	481.2	475.1	469.1	467.6	453.6	435.2	425.9	419.1
157.5°	458.3	459.3	463.6	467.8	463.6	459.3	458.3	447.5	433.1	425.9	421.2
160°	453.7	454.3	456.7	459.2	456.7	454.3	453.7	444.5	432.1	425.9	422.2
162.5°	449.3	449.9	452.2	454.6	452.2	449.9	449.3	441.5	431.1	425.9	423.2
165°	442.7	443.4	445.8	448.2	445.8	443.4	442.7	437.1	429.6	425.9	424.7
167.5°	439.8	440.1	441.1	442.2	441.1	440.1	439.8	436.2	431.2	428.8	427.8
170°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	436.2	431.2	428.8	428.7
172.5°	437.5	437.3	436.4	435.4	436.4	437.3	437.5	434.6	430.8	428.8	428.8
175°	434.3	434.3	434.3	434.3	434.3	434.3	434.3	432.4	430.0	428.8	429.4
177.5°	433.7	433.5	432.4	431.4	432.4	433.5	433.7	432.3	430.3	429.4	429.8
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1288.4	1294.5	1298.2	1303.1	1315.4
5°	1239.0	1262.4	1269.9	1288.4	1310.6
7.5°	1130.4	1202.0	1221.7	1266.1	1300.7
10°	1025.4	1097.1	1131.6	1236.5	1288.4
12.5°	972.4	1014.4	1037.9	1184.7	1271.1
15°	939.1	968.7	986.0	1115.6	1251.3
17.5°	913.2	934.2	946.5	1047.7	1224.2
20°	897.1	907.0	918.1	998.4	1193.3
22.5°	886.0	879.8	888.5	963.8	1151.3
25°	878.6	855.2	865.1	936.6	1102.0
27.5°	884.8	832.9	836.7	912.0	1050.2
30°	886.0	805.9	807.1	886.0	992.2
32.5°	877.4	777.5	778.7	854.0	926.7
35°	856.4	744.1	742.9	817.0	837.9
37.5°	828.0	708.3	708.3	776.2	740.4
40°	793.5	672.6	676.2	723.1	654.1
42.5°	751.5	634.3	639.2	652.8	589.9
45°	705.8	597.3	600.9	551.6	540.5
47.5°	655.3	559.0	560.2	457.8	524.4
50°	594.8	519.5	514.6	392.5	523.2
52.5°	541.7	476.3	461.5	355.4	475.1
55°	489.9	430.7	398.6	327.0	440.6
57.5°	444.2	371.5	340.6	293.7	433.2
60°	402.3	313.5	290.0	257.9	397.3
62.5°	367.7	270.3	265.3	233.2	360.3
65°	330.7	240.6	239.4	212.3	306.1
67.5°	295.0	220.9	219.7	192.5	233.2
70°	256.7	199.9	197.4	171.6	172.8
72.5°	217.2	176.4	174.0	154.3	143.2
75°	177.7	149.3	148.0	134.5	116.0
77.5°	139.4	118.4	121.0	108.6	85.2
80°	99.9	86.4	88.8	77.7	64.2
82.5°	66.6	56.8	59.2	49.3	43.2
85°	37.0	32.1	33.3	25.9	19.7
87.5°	17.3	14.9	14.9	9.9	6.2
90°	12.8	8.1	7.6	5.2	2.9
92.5°	78.5	55.9	50.9	31.3	11.6
95°	193.3	108.9	99.9	63.9	27.8
97.5°	260.4	119.6	111.6	79.9	48.1
100°	284.8	128.5	121.3	92.5	63.7
102.5°	296.0	137.5	130.8	104.0	77.1
105°	304.3	150.8	145.1	122.4	99.6
107.5°	305.9	170.5	165.2	144.0	122.7
110°	303.6	181.6	176.8	157.6	138.4

TEST NUMBER: P934906

CATALOG NUMBER: SQ4-FA-075U-100D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	303.6	194.8	190.3	172.0	153.7
115°	306.4	214.8	210.6	193.7	176.9
117.5°	312.1	234.2	230.4	215.1	199.8
120°	316.7	245.5	241.9	227.5	213.1
122.5°	323.4	258.8	255.2	240.7	226.1
125°	332.4	275.9	272.6	259.4	246.1
127.5°	341.4	292.4	289.1	275.7	262.4
130°	347.9	303.5	299.8	285.4	271.0
132.5°	353.2	312.4	308.8	294.4	280.0
135°	359.0	322.8	319.5	306.4	293.3
137.5°	367.7	336.1	332.9	319.9	306.9
140°	373.0	345.1	342.1	330.2	318.2
142.5°	377.4	351.7	348.9	337.9	326.9
145°	383.2	361.9	359.5	349.9	340.2
147.5°	391.7	374.6	372.3	362.9	353.5
150°	396.2	381.4	379.2	370.7	362.2
152.5°	399.1	385.6	384.1	377.6	371.2
155°	405.4	395.2	394.0	389.3	384.5
157.5°	411.8	404.8	403.7	399.0	394.3
160°	414.7	409.1	408.2	404.6	401.0
162.5°	417.8	413.8	413.1	410.4	407.7
165°	422.3	420.4	419.7	417.3	414.9
167.5°	425.7	424.1	423.8	422.6	421.5
170°	428.6	428.5	428.2	427.0	425.9
172.5°	428.8	428.8	428.7	428.5	428.2
175°	430.6	431.4	431.4	431.4	431.4
177.5°	430.8	431.4	431.4	431.4	431.4
180°	431.4	431.4	431.4	431.4	431.4

(END OF REPORT)