

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: P934102

Luminaire Tested: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934102
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

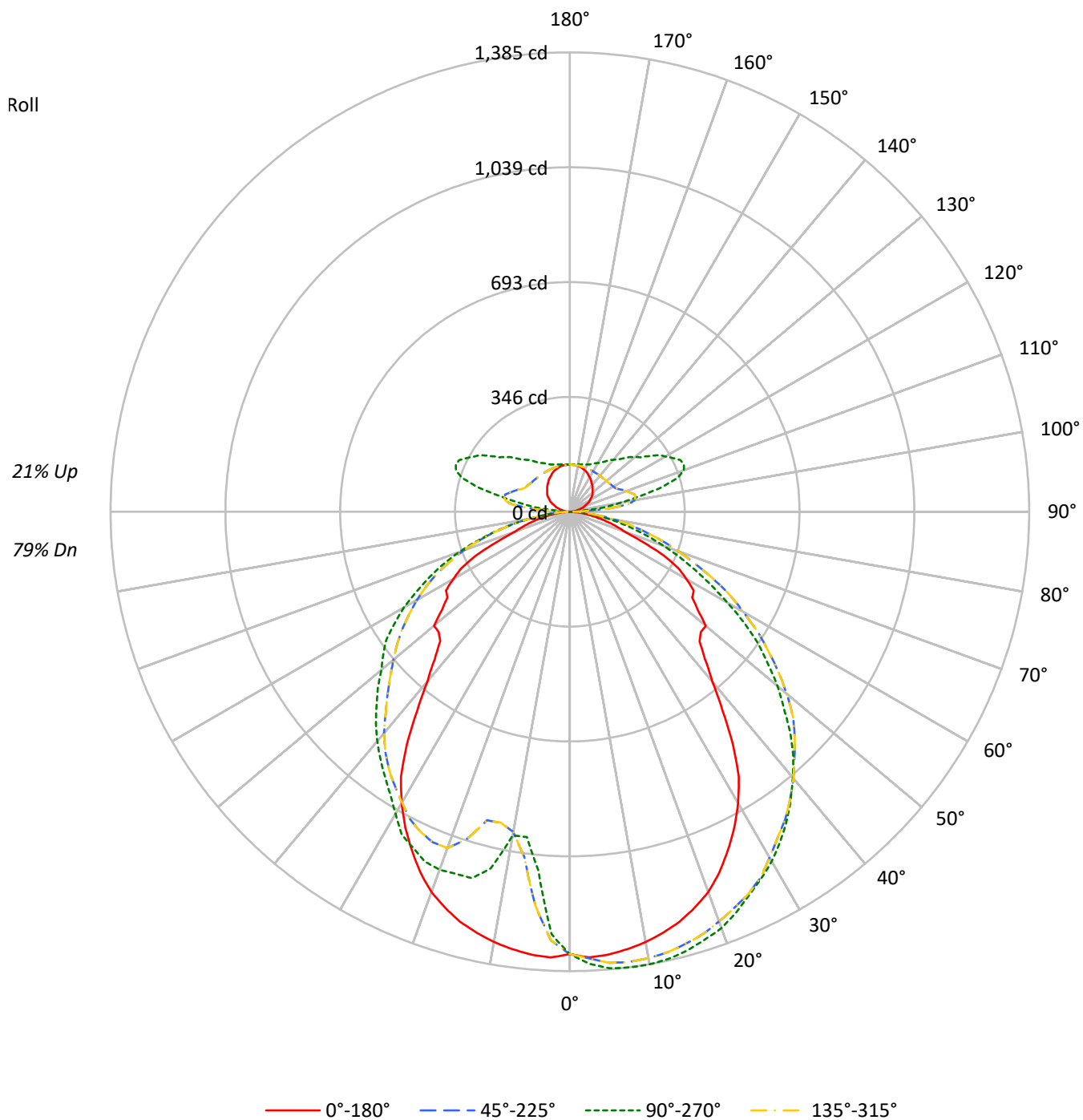
Lumens per Lamp: N/A
Luminaire Lumens: 4382.5 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 38.8
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: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12376	12376	12376	12376
5°	12455	12493	12455	9823
10°	12358	12306	12358	8798
15°	12209	12039	12209	10052
20°	11940	11723	11940	10074
25°	11404	11263	11404	9860
30°	10715	10880	10715	9392
35°	9538	10397	9538	8877
40°	7935	9827	7935	8487
45°	7076	9161	7076	8041
50°	7500	8366	7500	7591
55°	7037	7510	7037	7331
60°	7227	6376	7227	6715
65°	6523	5271	6523	5893
70°	4486	4202	4486	4940
75°	3889	3106	3889	3719
80°	3070	2052	3070	2236
85°	1673	1086	1673	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 10866 cd/sqm

TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	2.7
10°-20°	341.8	7.8
20°-30°	528.4	12.1
30°-40°	630.8	14.4
40°-50°	634.5	14.5
50°-60°	552.1	12.6
60°-70°	391.4	8.9
70°-80°	207.1	4.7
80°-90°	52.1	1.2
90°-100°	69.5	1.6
100°-110°	182.7	4.2
110°-120°	189.4	4.3
120°-130°	151.9	3.5
130°-140°	119.2	2.7
140°-150°	91.5	2.1
150°-160°	65.9	1.5
160°-170°	40.3	0.9
170°-180°	13.6	0.3
0°-30°	990.6	22.6
0°-40°	1621.4	37.0
0°-60°	2808.0	64.1
0°-90°	3458.6	78.9
90°-120°	441.5	10.1
90°-150°	804.1	18.3
90°-180°	924.0	21.1
0°-180°	4382.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1334	1334	1334	1334	1334	
5°	1340	1382	1340	1086	1340	127
15°	1279	1369	1279	1143	1279	360
25°	1127	1277	1127	1118	1127	517
35°	857	1139	857	973	857	530
45°	553	939	553	824	553	443
55°	450	693	450	676	450	414
65°	313	418	313	467	313	299
75°	119	198	119	237	119	125
85°	20	50	20	43	20	27
90°	1	4	1	4	1	2
95°	9	42	9	42	9	10
105°	33	286	33	286	33	35
115°	58	368	58	368	58	58
125°	81	293	81	293	81	72
135°	97	228	97	228	97	75
145°	112	185	112	185	112	70
155°	127	159	127	159	127	58
165°	137	148	137	148	137	39
175°	142	143	142	143	142	14
180°	142	142	142	142	142	

TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1345.0	1345.0	1352.7	1355.1	1355.1	1351.3	1347.6	1351.3	1362.7	1366.5	1365.3
5°	1340.1	1350.1	1364.0	1366.5	1369.0	1367.8	1365.3	1367.8	1380.4	1382.9	1384.2
7.5°	1329.9	1348.8	1366.5	1370.3	1374.1	1370.3	1369.0	1371.6	1384.2	1386.7	1386.7
10°	1317.3	1343.8	1364.0	1366.5	1370.3	1366.5	1366.5	1371.6	1384.2	1386.7	1388.0
12.5°	1299.7	1336.2	1355.1	1357.7	1362.7	1361.4	1360.2	1365.3	1377.9	1380.4	1380.4
15°	1279.4	1322.4	1340.1	1342.5	1351.3	1348.8	1348.8	1353.9	1367.8	1371.6	1370.3
17.5°	1251.7	1304.7	1324.9	1328.7	1335.0	1333.7	1335.0	1340.1	1352.7	1355.1	1356.4
20°	1220.1	1280.8	1304.7	1308.4	1314.7	1314.7	1314.7	1321.1	1333.7	1338.7	1338.7
22.5°	1177.2	1255.4	1280.8	1283.2	1290.8	1290.8	1293.4	1302.1	1313.5	1314.7	1314.7
25°	1126.8	1227.7	1249.1	1256.8	1264.3	1268.0	1271.9	1276.9	1280.8	1279.4	1280.8
27.5°	1073.8	1192.4	1220.1	1225.2	1235.3	1239.1	1244.1	1245.4	1246.7	1250.4	1247.9
30°	1014.5	1143.1	1184.8	1189.8	1206.3	1208.7	1203.8	1206.3	1212.6	1215.1	1217.6
32.5°	947.6	1070.0	1148.2	1159.6	1174.7	1167.1	1165.9	1169.7	1179.8	1179.8	1182.3
35°	856.7	1013.3	1114.2	1124.2	1135.6	1126.8	1131.8	1133.1	1139.4	1143.1	1141.9
37.5°	757.0	964.0	1078.9	1086.4	1095.2	1083.8	1091.5	1095.2	1100.3	1097.8	1097.8
40°	668.8	887.0	1037.2	1042.2	1049.8	1041.0	1048.5	1051.1	1053.6	1051.1	1049.8
42.5°	603.2	802.5	993.0	999.3	994.3	1000.6	1003.1	1008.2	1004.4	999.3	999.3
45°	552.7	779.8	945.1	952.6	945.1	955.2	958.9	958.9	947.6	945.1	943.8
47.5°	536.2	734.4	897.1	897.1	893.3	905.9	912.3	903.4	892.1	888.3	888.3
50°	535.0	683.9	831.5	826.5	844.1	859.3	853.0	844.1	835.3	821.4	821.4
52.5°	485.8	622.1	747.0	765.9	793.7	802.5	792.4	783.6	768.4	762.1	757.0
55°	450.5	557.7	670.0	707.8	736.9	748.2	729.3	720.5	697.7	694.0	691.4
57.5°	442.9	464.3	599.4	647.3	682.6	681.4	670.0	653.6	634.7	630.9	629.6
60°	406.3	335.6	523.6	580.4	617.0	613.2	603.2	588.0	570.3	567.8	565.3
62.5°	368.4	243.5	437.9	502.2	553.9	552.7	543.9	521.1	508.5	502.2	497.2
65°	313.0	204.4	311.6	417.6	492.1	494.6	475.7	459.3	445.4	437.9	436.5
67.5°	238.5	166.6	210.7	348.3	432.8	430.2	406.3	398.7	381.0	377.2	369.7
70°	176.7	111.1	146.4	282.7	374.7	368.4	349.5	340.6	324.3	315.4	310.4
72.5°	146.4	89.6	107.2	219.6	315.4	307.9	291.5	281.3	267.5	260.0	254.9
75°	118.6	94.6	82.0	162.7	256.1	251.1	236.0	225.9	214.5	204.4	205.7
77.5°	87.1	88.3	65.6	119.9	203.1	195.6	186.7	174.1	169.0	159.0	159.0
80°	65.6	69.4	49.2	82.0	146.4	146.4	138.8	130.0	121.1	116.1	116.1
82.5°	44.1	44.1	36.6	51.8	99.7	95.9	90.8	88.3	83.3	80.8	80.8
85°	20.2	25.2	22.7	31.5	54.2	56.8	56.8	54.2	53.0	50.4	51.8
87.5°	6.3	11.4	13.8	17.7	27.8	29.0	30.3	30.3	30.3	31.5	31.5
90°	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9	3.6	3.6
92.5°	3.8	10.3	16.8	18.4	26.0	36.0	41.0	35.9	25.8	18.1	17.4
95°	9.2	21.1	33.0	36.0	63.9	101.0	119.7	106.8	81.0	61.7	59.5
97.5°	15.9	26.4	36.9	39.5	86.0	148.0	179.1	170.9	154.6	142.4	138.2
100°	21.0	30.6	40.1	42.5	94.1	162.9	197.3	197.9	199.1	200.0	195.0
102.5°	25.4	34.3	43.3	45.5	97.8	167.6	202.5	212.9	233.6	249.2	244.9
105°	32.9	40.5	47.9	49.9	100.6	168.1	201.9	225.2	271.7	306.6	304.3
107.5°	40.6	47.6	54.6	56.3	101.0	160.6	190.4	222.9	287.7	336.4	337.0
110°	45.7	52.0	58.4	60.0	100.3	154.0	180.9	217.2	289.7	344.1	346.5

TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	50.8	56.8	62.8	64.4	100.3	148.2	172.2	209.3	283.5	339.2	342.8
115°	58.4	64.0	69.5	71.0	101.2	141.6	161.8	197.5	269.0	322.6	327.7
117.5°	66.0	71.1	76.1	77.4	103.1	137.4	154.6	186.9	251.4	299.8	305.4
120°	70.4	75.2	79.9	81.1	104.6	136.0	151.7	181.2	240.2	284.4	289.8
122.5°	74.7	79.5	84.2	85.5	106.8	135.2	149.5	176.0	229.1	268.9	274.3
125°	81.3	85.7	90.1	91.2	109.8	134.7	147.1	169.6	214.8	248.6	253.6
127.5°	86.6	91.1	95.5	96.6	112.8	134.3	145.1	164.5	203.2	232.3	236.5
130°	89.5	94.3	99.0	100.3	115.0	134.6	144.3	161.6	196.1	221.9	225.8
132.5°	92.5	97.3	102.1	103.2	116.7	134.7	143.6	159.1	189.9	213.2	216.6
135°	96.9	101.2	105.6	106.7	118.6	134.6	142.5	155.4	181.3	200.6	203.6
137.5°	101.4	105.7	110.0	111.1	121.5	135.3	142.3	153.2	175.1	191.5	194.0
140°	105.1	109.1	113.1	114.0	123.2	135.5	141.6	151.1	170.0	184.1	186.4
142.5°	108.0	111.6	115.3	116.2	124.7	136.0	141.6	149.9	166.6	179.0	181.0
145°	112.4	115.6	118.8	119.6	126.6	136.0	140.7	147.5	161.0	171.2	172.8
147.5°	116.8	119.9	123.0	123.8	129.4	136.9	140.7	146.0	156.7	164.7	166.0
150°	119.7	122.4	125.3	126.0	130.8	137.4	140.7	145.2	154.2	161.0	162.0
152.5°	122.6	124.7	126.8	127.4	131.8	137.7	140.7	144.5	152.2	158.1	158.8
155°	127.0	128.5	130.2	130.5	133.9	138.4	140.7	143.7	149.9	154.5	155.0
157.5°	130.3	131.8	133.3	133.7	136.0	139.1	140.7	143.1	147.8	151.4	151.7
160°	132.5	133.6	134.8	135.1	136.9	139.4	140.7	142.7	146.8	149.8	150.0
162.5°	134.7	135.5	136.5	136.7	138.0	139.8	140.7	142.4	145.8	148.4	148.6
165°	137.0	137.8	138.7	138.9	139.4	140.3	140.7	141.9	144.4	146.2	146.4
167.5°	139.2	139.6	140.0	140.1	140.6	141.2	141.6	142.4	144.0	145.3	145.4
170°	140.7	141.1	141.4	141.5	141.5	141.6	141.6	142.4	144.0	145.3	145.3
172.5°	141.4	141.5	141.6	141.6	141.6	141.6	141.6	142.3	143.5	144.5	144.4
175°	142.5	142.5	142.5	142.5	142.2	141.8	141.6	142.0	142.9	143.4	143.4
177.5°	142.5	142.5	142.5	142.5	142.3	142.0	141.8	142.1	142.8	143.2	143.2
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5

TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1367.8	1364.0	1367.8	1365.3	1366.5	1362.7	1351.3	1347.6	1351.3	1355.1	1355.1
5°	1384.2	1381.7	1384.2	1384.2	1382.9	1380.4	1367.8	1365.3	1367.8	1369.0	1366.5
7.5°	1389.2	1385.4	1389.2	1386.7	1386.7	1384.2	1371.6	1369.0	1370.3	1374.1	1370.3
10°	1389.2	1385.4	1389.2	1388.0	1386.7	1384.2	1371.6	1366.5	1366.5	1370.3	1366.5
12.5°	1382.9	1380.4	1382.9	1380.4	1380.4	1377.9	1365.3	1360.2	1361.4	1362.7	1357.7
15°	1372.8	1369.0	1372.8	1370.3	1371.6	1367.8	1353.9	1348.8	1348.8	1351.3	1342.5
17.5°	1357.7	1352.7	1357.7	1356.4	1355.1	1352.7	1340.1	1335.0	1333.7	1335.0	1328.7
20°	1340.1	1336.2	1340.1	1338.7	1338.7	1333.7	1321.1	1314.7	1314.7	1314.7	1308.4
22.5°	1312.3	1308.4	1312.3	1314.7	1314.7	1313.5	1302.1	1293.4	1290.8	1290.8	1283.2
25°	1280.8	1276.9	1280.8	1280.8	1279.4	1280.8	1276.9	1271.9	1268.0	1264.3	1256.8
27.5°	1250.4	1247.9	1250.4	1247.9	1250.4	1246.7	1245.4	1244.1	1239.1	1235.3	1225.2
30°	1220.1	1217.6	1220.1	1217.6	1215.1	1212.6	1206.3	1203.8	1208.7	1206.3	1189.8
32.5°	1182.3	1179.8	1182.3	1182.3	1179.8	1179.8	1169.7	1165.9	1167.1	1174.7	1159.6
35°	1143.1	1139.4	1143.1	1141.9	1143.1	1139.4	1133.1	1131.8	1126.8	1135.6	1124.2
37.5°	1097.8	1094.0	1097.8	1097.8	1097.8	1100.3	1095.2	1091.5	1083.8	1095.2	1086.4
40°	1051.1	1046.0	1051.1	1049.8	1051.1	1053.6	1051.1	1048.5	1041.0	1049.8	1042.2
42.5°	998.1	996.8	998.1	999.3	999.3	1004.4	1008.2	1003.1	1000.6	994.3	999.3
45°	941.2	938.8	941.2	943.8	945.1	947.6	958.9	958.9	955.2	945.1	952.6
47.5°	880.7	874.4	880.7	888.3	888.3	892.1	903.4	912.3	905.9	893.3	897.1
50°	816.3	817.7	816.3	821.4	821.4	835.3	844.1	853.0	859.3	844.1	826.5
52.5°	753.3	752.1	753.3	757.0	762.1	768.4	783.6	792.4	802.5	793.7	765.9
55°	690.2	692.8	690.2	691.4	694.0	697.7	720.5	729.3	748.2	736.9	707.8
57.5°	627.1	623.3	627.1	629.6	630.9	634.7	653.6	670.0	681.4	682.6	647.3
60°	553.9	548.8	553.9	565.3	567.8	570.3	588.0	603.2	613.2	617.0	580.4
62.5°	489.5	480.7	489.5	497.2	502.2	508.5	521.1	543.9	552.7	553.9	502.2
65°	421.4	417.6	421.4	436.5	437.9	445.4	459.3	475.7	494.6	492.1	417.6
67.5°	359.7	359.7	359.7	369.7	377.2	381.0	398.7	406.3	430.2	432.8	348.3
70°	302.8	301.6	302.8	310.4	315.4	324.3	340.6	349.5	368.4	374.7	282.7
72.5°	248.6	247.3	248.6	254.9	260.0	267.5	281.3	291.5	307.9	315.4	219.6
75°	200.6	198.1	200.6	205.7	204.4	214.5	225.9	236.0	251.1	256.1	162.7
77.5°	153.9	153.9	153.9	159.0	159.0	169.0	174.1	186.7	195.6	203.1	119.9
80°	114.8	113.5	114.8	116.1	116.1	121.1	130.0	138.8	146.4	146.4	82.0
82.5°	80.8	78.2	80.8	80.8	80.8	83.3	88.3	90.8	95.9	99.7	51.8
85°	50.4	50.4	50.4	51.8	50.4	53.0	54.2	56.8	56.8	54.2	31.5
87.5°	32.9	31.5	32.9	31.5	31.5	30.3	30.3	30.3	29.0	27.8	17.7
90°	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2	4.2	2.7
92.5°	14.5	11.7	14.5	17.4	18.1	25.8	35.9	41.0	36.0	26.0	18.4
95°	50.8	42.0	50.8	59.5	61.7	81.0	106.8	119.7	101.0	63.9	36.0
97.5°	121.6	105.0	121.6	138.2	142.4	154.6	170.9	179.1	148.0	86.0	39.5
100°	175.2	155.4	175.2	195.0	200.0	199.1	197.9	197.3	162.9	94.1	42.5
102.5°	227.9	210.9	227.9	244.9	249.2	233.6	212.9	202.5	167.6	97.8	45.5
105°	295.2	286.0	295.2	304.3	306.6	271.7	225.2	201.9	168.1	100.6	49.9
107.5°	339.2	341.4	339.2	337.0	336.4	287.7	222.9	190.4	160.6	101.0	56.3
110°	355.9	365.5	355.9	346.5	344.1	289.7	217.2	180.9	154.0	100.3	60.0

TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	357.5	372.1	357.5	342.8	339.2	283.5	209.3	172.2	148.2	100.3	64.4
115°	348.0	368.2	348.0	327.7	322.6	269.0	197.5	161.8	141.6	101.2	71.0
117.5°	327.9	350.4	327.9	305.4	299.8	251.4	186.9	154.6	137.4	103.1	77.4
120°	311.7	333.5	311.7	289.8	284.4	240.2	181.2	151.7	136.0	104.6	81.1
122.5°	295.9	317.4	295.9	274.3	268.9	229.1	176.0	149.5	135.2	106.8	85.5
125°	273.4	293.3	273.4	253.6	248.6	214.8	169.6	147.1	134.7	109.8	91.2
127.5°	253.2	269.9	253.2	236.5	232.3	203.2	164.5	145.1	134.3	112.8	96.6
130°	241.2	256.7	241.2	225.8	221.9	196.1	161.6	144.3	134.6	115.0	100.3
132.5°	230.4	244.3	230.4	216.6	213.2	189.9	159.1	143.6	134.7	116.7	103.2
135°	215.6	227.6	215.6	203.6	200.6	181.3	155.4	142.5	134.6	118.6	106.7
137.5°	203.7	213.5	203.7	194.0	191.5	175.1	153.2	142.3	135.3	121.5	111.1
140°	195.5	204.7	195.5	186.4	184.1	170.0	151.1	141.6	135.5	123.2	114.0
142.5°	188.8	196.6	188.8	181.0	179.0	166.6	149.9	141.6	136.0	124.7	116.2
145°	178.7	184.6	178.7	172.8	171.2	161.0	147.5	140.7	136.0	126.6	119.6
147.5°	170.8	175.8	170.8	166.0	164.7	156.7	146.0	140.7	136.9	129.4	123.8
150°	166.0	170.0	166.0	162.0	161.0	154.2	145.2	140.7	137.4	130.8	126.0
152.5°	161.8	164.8	161.8	158.8	158.1	152.2	144.5	140.7	137.7	131.8	127.4
155°	157.0	159.0	157.0	155.0	154.5	149.9	143.7	140.7	138.4	133.9	130.5
157.5°	153.2	154.6	153.2	151.7	151.4	147.8	143.1	140.7	139.1	136.0	133.7
160°	150.9	151.7	150.9	150.0	149.8	146.8	142.7	140.7	139.4	136.9	135.1
162.5°	149.4	150.1	149.4	148.6	148.4	145.8	142.4	140.7	139.8	138.0	136.7
165°	147.3	148.0	147.3	146.4	146.2	144.4	141.9	140.7	140.3	139.4	138.9
167.5°	145.6	146.0	145.6	145.4	145.3	144.0	142.4	141.6	141.2	140.6	140.1
170°	145.3	145.3	145.3	145.3	145.3	144.0	142.4	141.6	141.6	141.5	141.5
172.5°	144.1	143.8	144.1	144.4	144.5	143.5	142.3	141.6	141.6	141.6	141.6
175°	143.4	143.4	143.4	143.4	143.4	142.9	142.0	141.6	141.8	142.2	142.5
177.5°	142.9	142.5	142.9	143.2	143.2	142.8	142.1	141.8	142.0	142.3	142.5
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5

TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1352.7	1345.0	1345.0	1332.4	1327.4	1323.6	1317.3	1298.4	1293.4	1288.3	1295.8
5°	1364.0	1350.1	1340.1	1317.3	1298.4	1290.8	1266.8	1221.4	1191.1	1168.4	1155.8
7.5°	1366.5	1348.8	1329.9	1294.6	1249.1	1229.0	1155.8	1072.6	1049.8	1029.6	1017.0
10°	1364.0	1343.8	1317.3	1264.3	1157.1	1121.7	1048.5	994.3	980.4	976.6	980.4
12.5°	1355.1	1336.2	1299.7	1211.3	1061.2	1037.2	994.3	962.7	960.3	966.6	1000.6
15°	1340.1	1322.4	1279.4	1140.7	1008.2	990.5	960.3	948.9	962.7	1006.9	1109.1
17.5°	1324.9	1304.7	1251.7	1071.2	967.8	955.2	933.7	956.4	1034.6	1094.0	1128.0
20°	1304.7	1280.8	1220.1	1020.8	938.8	927.4	917.3	1019.6	1078.9	1100.3	1119.2
22.5°	1280.8	1255.4	1177.2	985.5	908.5	899.6	905.9	1054.9	1078.9	1094.0	1110.4
25°	1249.1	1227.7	1126.8	957.7	884.5	874.4	898.4	1051.1	1064.9	1068.7	1101.5
27.5°	1220.1	1192.4	1073.8	932.5	855.5	851.7	904.7	1034.6	1044.8	1048.5	1083.8
30°	1184.8	1143.1	1014.5	905.9	825.2	824.0	905.9	1014.5	1011.9	1022.0	1057.4
32.5°	1148.2	1070.0	947.6	873.2	796.2	794.9	897.1	984.2	981.6	995.6	1022.0
35°	1114.2	1013.3	856.7	835.3	759.6	760.8	875.6	948.9	950.1	962.7	979.2
37.5°	1078.9	964.0	757.0	793.7	724.3	724.3	846.6	916.0	913.6	917.3	940.0
40°	1037.2	887.0	668.8	739.4	691.4	687.7	811.4	880.7	871.9	870.7	902.2
42.5°	993.0	802.5	603.2	667.4	653.6	648.5	768.4	837.8	821.4	825.2	865.6
45°	945.1	779.8	552.7	564.0	614.4	610.7	721.7	788.6	777.3	787.4	829.0
47.5°	897.1	734.4	536.2	468.1	572.8	571.6	670.0	740.7	734.4	744.4	788.6
50°	831.5	683.9	535.0	401.3	526.2	531.2	608.1	694.0	694.0	702.8	749.5
52.5°	747.0	622.1	485.8	363.4	471.9	487.0	553.9	653.6	656.1	665.0	706.6
55°	670.0	557.7	450.5	334.3	407.6	440.4	500.9	612.0	617.0	625.8	663.7
57.5°	599.4	464.3	442.9	300.3	348.3	379.8	454.2	571.6	574.1	581.7	618.3
60°	523.6	335.6	406.3	263.7	296.5	320.5	411.3	523.6	532.5	537.5	569.1
62.5°	437.9	243.5	368.4	238.5	271.3	276.4	376.0	478.2	489.5	493.4	512.3
65°	311.6	204.4	313.0	217.1	244.8	246.0	338.2	431.6	441.6	447.9	461.8
67.5°	210.7	166.6	238.5	196.8	224.6	225.9	301.6	377.2	391.2	396.2	405.0
70°	146.4	111.1	176.7	175.4	201.9	204.4	262.4	328.0	340.6	344.5	349.5
72.5°	107.2	89.6	146.4	157.8	177.9	180.4	222.0	272.6	285.2	289.0	291.5
75°	82.0	94.6	118.6	137.5	151.4	152.7	181.7	222.0	230.9	233.4	234.6
77.5°	65.6	88.3	87.1	111.1	123.7	121.1	142.6	171.6	179.2	179.2	179.2
80°	49.2	69.4	65.6	79.5	90.8	88.3	102.2	122.4	124.9	127.4	126.2
82.5°	36.6	44.1	44.1	50.4	60.5	58.1	68.1	79.5	79.5	79.5	82.0
85°	22.7	25.2	20.2	26.5	34.1	32.9	37.8	42.9	44.1	44.1	41.6
87.5°	13.8	11.4	6.3	10.1	15.2	15.2	17.7	18.9	17.7	17.7	17.7
90°	2.5	1.7	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9
92.5°	16.8	10.3	3.8	10.3	16.8	18.4	26.0	36.0	41.0	35.9	25.8
95°	33.0	21.1	9.2	21.1	33.0	36.0	63.9	101.0	119.7	106.8	81.0
97.5°	36.9	26.4	15.9	26.4	36.9	39.5	86.0	148.0	179.1	170.9	154.6
100°	40.1	30.6	21.0	30.6	40.1	42.5	94.1	162.9	197.3	197.9	199.1
102.5°	43.3	34.3	25.4	34.3	43.3	45.5	97.8	167.6	202.5	212.9	233.6
105°	47.9	40.5	32.9	40.5	47.9	49.9	100.6	168.1	201.9	225.2	271.7
107.5°	54.6	47.6	40.6	47.6	54.6	56.3	101.0	160.6	190.4	222.9	287.7
110°	58.4	52.0	45.7	52.0	58.4	60.0	100.3	154.0	180.9	217.2	289.7

TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	62.8	56.8	50.8	56.8	62.8	64.4	100.3	148.2	172.2	209.3	283.5
115°	69.5	64.0	58.4	64.0	69.5	71.0	101.2	141.6	161.8	197.5	269.0
117.5°	76.1	71.1	66.0	71.1	76.1	77.4	103.1	137.4	154.6	186.9	251.4
120°	79.9	75.2	70.4	75.2	79.9	81.1	104.6	136.0	151.7	181.2	240.2
122.5°	84.2	79.5	74.7	79.5	84.2	85.5	106.8	135.2	149.5	176.0	229.1
125°	90.1	85.7	81.3	85.7	90.1	91.2	109.8	134.7	147.1	169.6	214.8
127.5°	95.5	91.1	86.6	91.1	95.5	96.6	112.8	134.3	145.1	164.5	203.2
130°	99.0	94.3	89.5	94.3	99.0	100.3	115.0	134.6	144.3	161.6	196.1
132.5°	102.1	97.3	92.5	97.3	102.1	103.2	116.7	134.7	143.6	159.1	189.9
135°	105.6	101.2	96.9	101.2	105.6	106.7	118.6	134.6	142.5	155.4	181.3
137.5°	110.0	105.7	101.4	105.7	110.0	111.1	121.5	135.3	142.3	153.2	175.1
140°	113.1	109.1	105.1	109.1	113.1	114.0	123.2	135.5	141.6	151.1	170.0
142.5°	115.3	111.6	108.0	111.6	115.3	116.2	124.7	136.0	141.6	149.9	166.6
145°	118.8	115.6	112.4	115.6	118.8	119.6	126.6	136.0	140.7	147.5	161.0
147.5°	123.0	119.9	116.8	119.9	123.0	123.8	129.4	136.9	140.7	146.0	156.7
150°	125.3	122.4	119.7	122.4	125.3	126.0	130.8	137.4	140.7	145.2	154.2
152.5°	126.8	124.7	122.6	124.7	126.8	127.4	131.8	137.7	140.7	144.5	152.2
155°	130.2	128.5	127.0	128.5	130.2	130.5	133.9	138.4	140.7	143.7	149.9
157.5°	133.3	131.8	130.3	131.8	133.3	133.7	136.0	139.1	140.7	143.1	147.8
160°	134.8	133.6	132.5	133.6	134.8	135.1	136.9	139.4	140.7	142.7	146.8
162.5°	136.5	135.5	134.7	135.5	136.5	136.7	138.0	139.8	140.7	142.4	145.8
165°	138.7	137.8	137.0	137.8	138.7	138.9	139.4	140.3	140.7	141.9	144.4
167.5°	140.0	139.6	139.2	139.6	140.0	140.1	140.6	141.2	141.6	142.4	144.0
170°	141.4	141.1	140.7	141.1	141.4	141.5	141.5	141.6	141.6	142.4	144.0
172.5°	141.6	141.5	141.4	141.5	141.6	141.6	141.6	141.6	141.6	142.3	143.5
175°	142.5	142.5	142.5	142.5	142.5	142.5	142.2	141.8	141.6	142.0	142.9
177.5°	142.5	142.5	142.5	142.5	142.5	142.5	142.3	142.0	141.8	142.1	142.8
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5

TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1287.1	1283.2	1288.3	1274.4	1288.3	1283.2	1287.1	1295.8	1288.3	1293.4	1298.4
5°	1129.3	1123.0	1102.8	1086.4	1102.8	1123.0	1129.3	1155.8	1168.4	1191.1	1221.4
7.5°	1009.4	1004.4	999.3	989.2	999.3	1004.4	1009.4	1017.0	1029.6	1049.8	1072.6
10°	982.9	984.2	991.8	990.5	991.8	984.2	982.9	980.4	976.6	980.4	994.3
12.5°	1051.1	1062.4	1104.1	1101.5	1104.1	1062.4	1051.1	1000.6	966.6	960.3	962.7
15°	1129.3	1133.1	1141.9	1143.1	1141.9	1133.1	1129.3	1109.1	1006.9	962.7	948.9
17.5°	1136.8	1138.2	1144.5	1144.5	1144.5	1138.2	1136.8	1128.0	1094.0	1034.6	956.4
20°	1130.5	1133.1	1145.7	1148.2	1145.7	1133.1	1130.5	1119.2	1100.3	1078.9	1019.6
22.5°	1128.0	1133.1	1143.1	1141.9	1143.1	1133.1	1128.0	1110.4	1094.0	1078.9	1054.9
25°	1115.4	1115.4	1116.7	1117.9	1116.7	1115.4	1115.4	1101.5	1068.7	1064.9	1051.1
27.5°	1088.9	1091.5	1099.0	1097.8	1099.0	1091.5	1088.9	1083.8	1048.5	1044.8	1034.6
30°	1064.9	1062.4	1056.1	1051.1	1056.1	1062.4	1064.9	1057.4	1022.0	1011.9	1014.5
32.5°	1024.5	1018.2	1011.9	1008.2	1011.9	1018.2	1024.5	1022.0	995.6	981.6	984.2
35°	976.6	977.9	976.6	972.9	976.6	977.9	976.6	979.2	962.7	950.1	948.9
37.5°	942.6	945.1	943.8	938.8	943.8	945.1	942.6	940.0	917.3	913.6	916.0
40°	907.2	908.5	907.2	903.4	907.2	908.5	907.2	902.2	870.7	871.9	880.7
42.5°	873.2	871.9	868.1	865.6	868.1	871.9	873.2	865.6	825.2	821.4	837.8
45°	834.0	835.3	827.7	824.0	827.7	835.3	834.0	829.0	787.4	777.3	788.6
47.5°	794.9	794.9	788.6	784.8	788.6	794.9	794.9	788.6	744.4	734.4	740.7
50°	753.3	752.1	743.2	741.9	743.2	752.1	753.3	749.5	702.8	694.0	694.0
52.5°	705.4	705.4	706.6	709.1	706.6	705.4	705.4	706.6	665.0	656.1	653.6
55°	663.7	665.0	673.8	676.3	673.8	665.0	663.7	663.7	625.8	617.0	612.0
57.5°	620.8	620.8	627.1	627.1	627.1	620.8	620.8	618.3	581.7	574.1	571.6
60°	571.6	574.1	579.1	577.9	579.1	574.1	571.6	569.1	537.5	532.5	523.6
62.5°	519.8	522.4	523.6	521.1	523.6	522.4	519.8	512.3	493.4	489.5	478.2
65°	465.6	468.1	469.4	466.9	469.4	468.1	465.6	461.8	447.9	441.6	431.6
67.5°	410.1	408.8	407.6	412.6	407.6	408.8	410.1	405.0	396.2	391.2	377.2
70°	353.3	353.3	352.0	354.6	352.0	353.3	353.3	349.5	344.5	340.6	328.0
72.5°	292.7	291.5	296.5	292.7	296.5	291.5	292.7	291.5	289.0	285.2	272.6
75°	233.4	236.0	233.4	237.2	233.4	236.0	233.4	234.6	233.4	230.9	222.0
77.5°	177.9	180.4	177.9	177.9	177.9	180.4	177.9	179.2	179.2	179.2	171.6
80°	126.2	124.9	124.9	123.7	124.9	124.9	126.2	126.2	127.4	124.9	122.4
82.5°	80.8	79.5	79.5	82.0	79.5	79.5	80.8	82.0	79.5	79.5	79.5
85°	44.1	45.5	42.9	42.9	42.9	45.5	44.1	41.6	44.1	44.1	42.9
87.5°	16.4	15.2	15.2	15.2	15.2	15.2	16.4	17.7	17.7	17.7	18.9
90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2
92.5°	18.1	17.4	14.5	11.7	14.5	17.4	18.1	25.8	35.9	41.0	36.0
95°	61.7	59.5	50.8	42.0	50.8	59.5	61.7	81.0	106.8	119.7	101.0
97.5°	142.4	138.2	121.6	105.0	121.6	138.2	142.4	154.6	170.9	179.1	148.0
100°	200.0	195.0	175.2	155.4	175.2	195.0	200.0	199.1	197.9	197.3	162.9
102.5°	249.2	244.9	227.9	210.9	227.9	244.9	249.2	233.6	212.9	202.5	167.6
105°	306.6	304.3	295.2	286.0	295.2	304.3	306.6	271.7	225.2	201.9	168.1
107.5°	336.4	337.0	339.2	341.4	339.2	337.0	336.4	287.7	222.9	190.4	160.6
110°	344.1	346.5	355.9	365.5	355.9	346.5	344.1	289.7	217.2	180.9	154.0

TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	339.2	342.8	357.5	372.1	357.5	342.8	339.2	283.5	209.3	172.2	148.2
115°	322.6	327.7	348.0	368.2	348.0	327.7	322.6	269.0	197.5	161.8	141.6
117.5°	299.8	305.4	327.9	350.4	327.9	305.4	299.8	251.4	186.9	154.6	137.4
120°	284.4	289.8	311.7	333.5	311.7	289.8	284.4	240.2	181.2	151.7	136.0
122.5°	268.9	274.3	295.9	317.4	295.9	274.3	268.9	229.1	176.0	149.5	135.2
125°	248.6	253.6	273.4	293.3	273.4	253.6	248.6	214.8	169.6	147.1	134.7
127.5°	232.3	236.5	253.2	269.9	253.2	236.5	232.3	203.2	164.5	145.1	134.3
130°	221.9	225.8	241.2	256.7	241.2	225.8	221.9	196.1	161.6	144.3	134.6
132.5°	213.2	216.6	230.4	244.3	230.4	216.6	213.2	189.9	159.1	143.6	134.7
135°	200.6	203.6	215.6	227.6	215.6	203.6	200.6	181.3	155.4	142.5	134.6
137.5°	191.5	194.0	203.7	213.5	203.7	194.0	191.5	175.1	153.2	142.3	135.3
140°	184.1	186.4	195.5	204.7	195.5	186.4	184.1	170.0	151.1	141.6	135.5
142.5°	179.0	181.0	188.8	196.6	188.8	181.0	179.0	166.6	149.9	141.6	136.0
145°	171.2	172.8	178.7	184.6	178.7	172.8	171.2	161.0	147.5	140.7	136.0
147.5°	164.7	166.0	170.8	175.8	170.8	166.0	164.7	156.7	146.0	140.7	136.9
150°	161.0	162.0	166.0	170.0	166.0	162.0	161.0	154.2	145.2	140.7	137.4
152.5°	158.1	158.8	161.8	164.8	161.8	158.8	158.1	152.2	144.5	140.7	137.7
155°	154.5	155.0	157.0	159.0	157.0	155.0	154.5	149.9	143.7	140.7	138.4
157.5°	151.4	151.7	153.2	154.6	153.2	151.7	151.4	147.8	143.1	140.7	139.1
160°	149.8	150.0	150.9	151.7	150.9	150.0	149.8	146.8	142.7	140.7	139.4
162.5°	148.4	148.6	149.4	150.1	149.4	148.6	148.4	145.8	142.4	140.7	139.8
165°	146.2	146.4	147.3	148.0	147.3	146.4	146.2	144.4	141.9	140.7	140.3
167.5°	145.3	145.4	145.6	146.0	145.6	145.4	145.3	144.0	142.4	141.6	141.2
170°	145.3	145.3	145.3	145.3	145.3	145.3	145.3	144.0	142.4	141.6	141.6
172.5°	144.5	144.4	144.1	143.8	144.1	144.4	144.5	143.5	142.3	141.6	141.6
175°	143.4	143.4	143.4	143.4	143.4	143.4	143.4	142.9	142.0	141.6	141.8
177.5°	143.2	143.2	142.9	142.5	142.9	143.2	143.2	142.8	142.1	141.8	142.0
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5

TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1317.3	1323.6	1327.4	1332.4	1345.0
5°	1266.8	1290.8	1298.4	1317.3	1340.1
7.5°	1155.8	1229.0	1249.1	1294.6	1329.9
10°	1048.5	1121.7	1157.1	1264.3	1317.3
12.5°	994.3	1037.2	1061.2	1211.3	1299.7
15°	960.3	990.5	1008.2	1140.7	1279.4
17.5°	933.7	955.2	967.8	1071.2	1251.7
20°	917.3	927.4	938.8	1020.8	1220.1
22.5°	905.9	899.6	908.5	985.5	1177.2
25°	898.4	874.4	884.5	957.7	1126.8
27.5°	904.7	851.7	855.5	932.5	1073.8
30°	905.9	824.0	825.2	905.9	1014.5
32.5°	897.1	794.9	796.2	873.2	947.6
35°	875.6	760.8	759.6	835.3	856.7
37.5°	846.6	724.3	724.3	793.7	757.0
40°	811.4	687.7	691.4	739.4	668.8
42.5°	768.4	648.5	653.6	667.4	603.2
45°	721.7	610.7	614.4	564.0	552.7
47.5°	670.0	571.6	572.8	468.1	536.2
50°	608.1	531.2	526.2	401.3	535.0
52.5°	553.9	487.0	471.9	363.4	485.8
55°	500.9	440.4	407.6	334.3	450.5
57.5°	454.2	379.8	348.3	300.3	442.9
60°	411.3	320.5	296.5	263.7	406.3
62.5°	376.0	276.4	271.3	238.5	368.4
65°	338.2	246.0	244.8	217.1	313.0
67.5°	301.6	225.9	224.6	196.8	238.5
70°	262.4	204.4	201.9	175.4	176.7
72.5°	222.0	180.4	177.9	157.8	146.4
75°	181.7	152.7	151.4	137.5	118.6
77.5°	142.6	121.1	123.7	111.1	87.1
80°	102.2	88.3	90.8	79.5	65.6
82.5°	68.1	58.1	60.5	50.4	44.1
85°	37.8	32.9	34.1	26.5	20.2
87.5°	17.7	15.2	15.2	10.1	6.3
90°	4.2	2.7	2.5	1.7	1.0
92.5°	26.0	18.4	16.8	10.3	3.8
95°	63.9	36.0	33.0	21.1	9.2
97.5°	86.0	39.5	36.9	26.4	15.9
100°	94.1	42.5	40.1	30.6	21.0
102.5°	97.8	45.5	43.3	34.3	25.4
105°	100.6	49.9	47.9	40.5	32.9
107.5°	101.0	56.3	54.6	47.6	40.6
110°	100.3	60.0	58.4	52.0	45.7



TEST NUMBER: P934102

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	100.3	64.4	62.8	56.8	50.8
115°	101.2	71.0	69.5	64.0	58.4
117.5°	103.1	77.4	76.1	71.1	66.0
120°	104.6	81.1	79.9	75.2	70.4
122.5°	106.8	85.5	84.2	79.5	74.7
125°	109.8	91.2	90.1	85.7	81.3
127.5°	112.8	96.6	95.5	91.1	86.6
130°	115.0	100.3	99.0	94.3	89.5
132.5°	116.7	103.2	102.1	97.3	92.5
135°	118.6	106.7	105.6	101.2	96.9
137.5°	121.5	111.1	110.0	105.7	101.4
140°	123.2	114.0	113.1	109.1	105.1
142.5°	124.7	116.2	115.3	111.6	108.0
145°	126.6	119.6	118.8	115.6	112.4
147.5°	129.4	123.8	123.0	119.9	116.8
150°	130.8	126.0	125.3	122.4	119.7
152.5°	131.8	127.4	126.8	124.7	122.6
155°	133.9	130.5	130.2	128.5	127.0
157.5°	136.0	133.7	133.3	131.8	130.3
160°	136.9	135.1	134.8	133.6	132.5
162.5°	138.0	136.7	136.5	135.5	134.7
165°	139.4	138.9	138.7	137.8	137.0
167.5°	140.6	140.1	140.0	139.6	139.2
170°	141.5	141.5	141.4	141.1	140.7
172.5°	141.6	141.6	141.6	141.5	141.4
175°	142.2	142.5	142.5	142.5	142.5
177.5°	142.3	142.5	142.5	142.5	142.5
180°	142.5	142.5	142.5	142.5	142.5

(END OF REPORT)