

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: P934607

Luminaire Tested: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934607
REPORT IS A COMBINATION OF REPORTS P933703 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

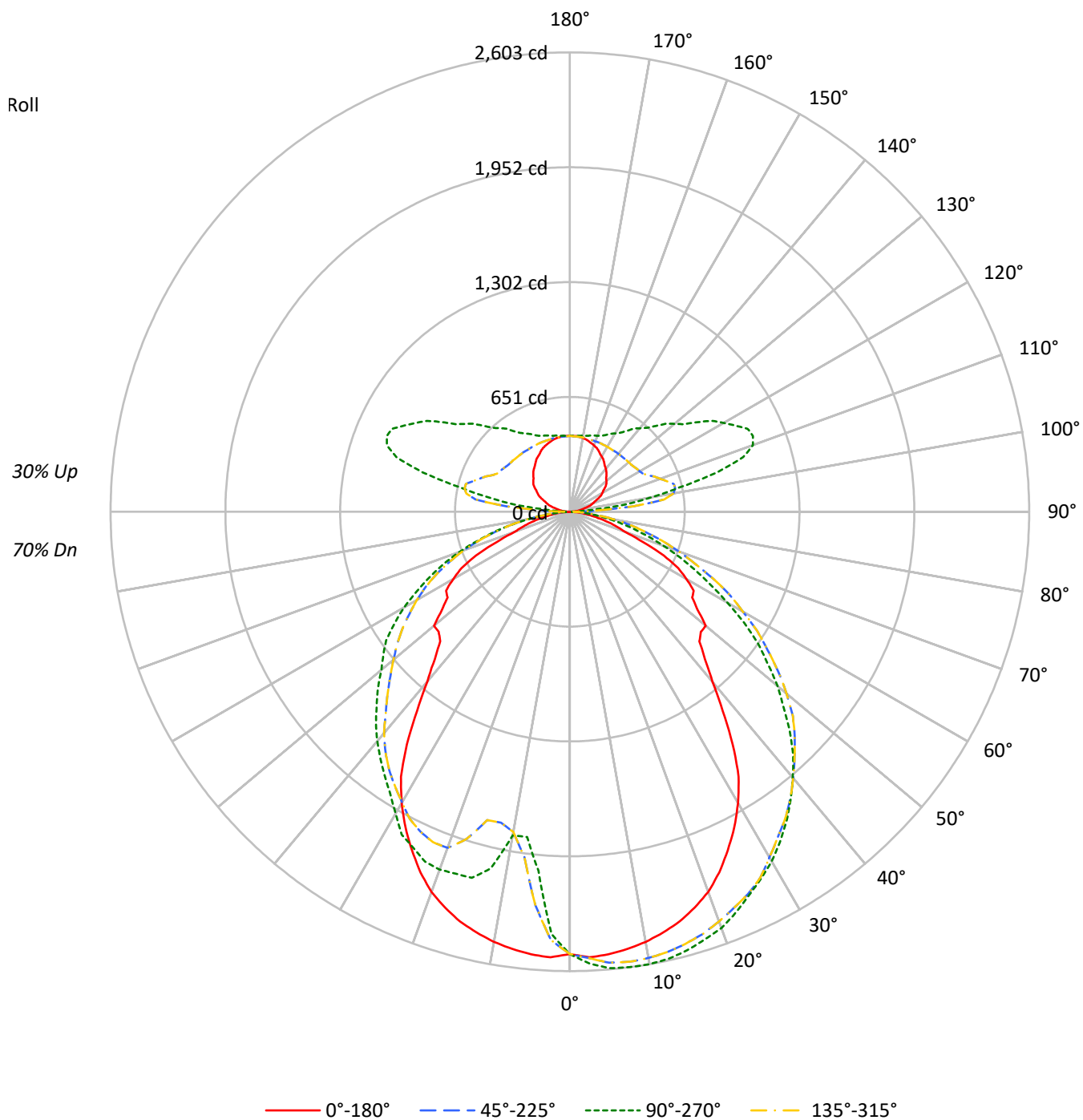
Lumens per Lamp: N/A
Luminaire Lumens: 9287.7 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 84
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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27
8	57	44	36	30	54	42	35	29	38	32	28	35	29	26	31	27	24
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15501	15501	15501	15501
5°	15611	15647	15611	12304
10°	15501	15414	15501	11019
15°	15326	15079	15326	12591
20°	15000	14684	15000	12618
25°	14338	14107	14338	12351
30°	13484	13628	13484	11764
35°	12016	13022	12016	11118
40°	10006	12308	10006	10631
45°	8935	11474	8935	10070
50°	9486	10478	9486	9508
55°	8915	9405	8915	9182
60°	9180	7988	9180	8411
65°	8310	6603	8310	7381
70°	5740	5262	5740	6187
75°	5016	3890	5016	4658
80°	4013	2571	4013	2800
85°	2260	1362	2260	1158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 13702 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	2.4
10°-20°	642.2	6.9
20°-30°	992.7	10.7
30°-40°	1185.1	12.8
40°-50°	1192.1	12.8
50°-60°	1037.2	11.2
60°-70°	735.4	7.9
70°-80°	389.1	4.2
80°-90°	98.5	1.1
90°-100°	209.7	2.3
100°-110°	551.4	5.9
110°-120°	571.7	6.2
120°-130°	458.6	4.9
130°-140°	359.8	3.9
140°-150°	276.2	3.0
150°-160°	198.9	2.1
160°-170°	121.7	1.3
170°-180°	41.1	0.4
0°-30°	1861.1	20.0
0°-40°	3046.2	32.8
0°-60°	5275.5	56.8
0°-90°	6498.5	70.0
90°-120°	1332.8	14.4
90°-150°	2427.4	26.1
90°-180°	2789.0	30.0
0°-180°	9287.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2506	2506	2506	2506	2506	
5°	2518	2596	2518	2041	2518	239
15°	2404	2572	2404	2148	2404	676
25°	2117	2399	2117	2100	2117	972
35°	1610	2141	1610	1828	1610	996
45°	1038	1764	1038	1548	1038	832
55°	846	1301	846	1271	846	778
65°	588	785	588	877	588	562
75°	223	372	223	446	223	234
85°	38	95	38	81	38	51
90°	3	11	3	11	3	4
95°	28	127	28	127	28	31
105°	99	863	99	863	99	105
115°	176	1112	176	1112	176	174
125°	246	885	246	885	246	218
135°	292	687	292	687	292	226
145°	339	557	339	557	339	213
155°	384	480	384	480	384	176
165°	414	447	414	447	414	117
175°	430	433	430	433	430	41
180°	430	430	430	430	430	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7
2.5°	2527.0	2527.0	2541.3	2546.0	2546.0	2538.9	2531.8	2538.9	2560.3	2567.4	2565.0
5°	2517.6	2536.6	2562.6	2567.4	2572.1	2569.7	2565.0	2569.7	2593.4	2598.2	2600.5
7.5°	2498.6	2534.1	2567.4	2574.5	2581.6	2574.5	2572.1	2576.8	2600.5	2605.3	2605.3
10°	2474.9	2524.7	2562.6	2567.4	2574.5	2567.4	2567.4	2576.8	2600.5	2605.3	2607.6
12.5°	2441.8	2510.5	2546.0	2550.8	2560.3	2557.9	2555.5	2565.0	2588.7	2593.4	2593.4
15°	2403.8	2484.3	2517.6	2522.4	2538.9	2534.1	2534.1	2543.7	2569.7	2576.8	2574.5
17.5°	2351.6	2451.2	2489.1	2496.2	2508.1	2505.7	2508.1	2517.6	2541.3	2546.0	2548.4
20°	2292.4	2406.2	2451.2	2458.3	2470.1	2470.1	2470.1	2482.0	2505.7	2515.2	2515.2
22.5°	2211.8	2358.7	2406.2	2410.9	2425.1	2425.1	2429.9	2446.4	2467.8	2470.1	2470.1
25°	2116.9	2306.6	2346.9	2361.2	2375.3	2382.4	2389.5	2399.1	2406.2	2403.8	2406.2
27.5°	2017.3	2240.2	2292.4	2301.8	2320.8	2327.9	2337.4	2339.8	2342.2	2349.3	2344.5
30°	1905.9	2147.7	2226.0	2235.4	2266.3	2271.0	2261.6	2266.3	2278.1	2282.9	2287.6
32.5°	1780.3	2010.2	2157.3	2178.6	2207.0	2192.8	2190.4	2197.5	2216.5	2216.5	2221.2
35°	1609.7	1903.6	2093.3	2112.2	2133.5	2116.9	2126.4	2128.8	2140.6	2147.7	2145.4
37.5°	1422.4	1811.1	2026.9	2041.1	2057.7	2036.3	2050.6	2057.7	2067.1	2062.5	2062.5
40°	1256.4	1666.5	1948.6	1958.1	1972.3	1955.7	1970.0	1974.8	1979.4	1974.8	1972.3
42.5°	1133.1	1507.7	1865.7	1877.5	1868.0	1879.9	1884.6	1894.2	1887.0	1877.5	1877.5
45°	1038.3	1465.1	1775.5	1789.8	1775.5	1794.6	1801.7	1801.7	1780.3	1775.5	1773.2
47.5°	1007.5	1379.7	1685.5	1685.5	1678.4	1702.1	1714.0	1697.4	1676.0	1668.9	1668.9
50°	1005.2	1284.9	1562.2	1552.8	1585.9	1614.4	1602.6	1585.9	1569.3	1543.2	1543.2
52.5°	912.7	1168.7	1403.4	1438.9	1491.1	1507.7	1488.7	1472.2	1443.7	1431.8	1422.4
55°	846.3	1047.8	1258.8	1329.9	1384.5	1405.8	1370.2	1353.6	1311.0	1303.9	1299.1
57.5°	832.1	872.4	1126.0	1216.2	1282.5	1280.1	1258.8	1227.9	1192.4	1185.3	1182.9
60°	763.4	630.5	983.8	1090.4	1159.2	1152.1	1133.1	1104.7	1071.5	1066.8	1062.1
62.5°	692.2	457.6	822.6	943.5	1040.7	1038.3	1021.7	979.0	955.4	943.5	934.0
65°	588.0	384.1	585.5	784.7	924.6	929.2	893.7	862.9	836.9	822.6	820.2
67.5°	448.0	312.9	395.9	654.3	813.1	808.4	763.4	749.1	715.9	708.8	694.6
70°	331.9	208.7	275.0	531.0	704.0	692.2	656.7	640.1	609.2	592.6	583.2
72.5°	275.0	168.3	201.5	412.5	592.6	578.4	547.6	528.6	502.6	488.4	478.9
75°	222.9	177.8	154.1	305.8	481.2	471.8	443.3	424.3	403.0	384.1	386.4
77.5°	163.5	166.0	123.3	225.2	381.6	367.4	350.8	327.2	317.7	298.7	298.7
80°	123.3	130.4	92.5	154.1	275.0	275.0	260.8	244.1	227.6	218.1	218.1
82.5°	82.9	82.9	68.7	97.2	187.3	180.2	170.6	166.0	156.4	151.7	151.7
85°	37.9	47.4	42.7	59.3	101.9	106.7	106.7	101.9	99.6	94.8	97.2
87.5°	11.9	21.3	26.1	33.2	52.1	54.5	56.9	56.9	56.9	59.3	59.3
90°	2.9	5.2	7.6	8.1	12.7	18.9	21.9	19.5	14.6	10.9	10.9
92.5°	11.6	31.2	50.8	55.8	78.4	108.5	123.6	108.3	77.7	54.8	52.7
95°	27.7	63.6	99.6	108.5	192.8	305.1	361.3	322.4	244.6	186.2	179.6
97.5°	47.9	79.7	111.3	119.3	259.7	447.0	540.6	516.0	466.8	429.9	417.3
100°	63.5	92.3	121.0	128.2	284.0	491.8	595.7	597.5	601.1	603.8	588.9
102.5°	76.8	103.7	130.5	137.2	295.2	505.9	611.3	642.6	705.3	752.2	739.4
105°	99.4	122.1	144.8	150.5	303.5	507.5	609.5	679.8	820.1	925.5	918.6
107.5°	122.4	143.6	164.8	170.1	305.0	484.9	574.9	672.8	868.6	1015.5	1017.2
110°	138.0	157.1	176.2	181.0	302.7	464.9	546.0	655.5	874.5	1038.7	1045.9

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.4	171.6	189.8	194.4	302.8	447.5	519.8	631.9	855.9	1023.9	1035.0
115°	176.4	193.2	210.1	214.3	305.6	427.4	488.3	596.3	812.1	974.0	989.3
117.5°	199.2	214.5	229.8	233.6	311.3	414.9	466.6	564.0	758.9	905.0	922.0
120°	212.5	226.9	241.3	244.9	315.9	410.6	457.9	547.0	725.0	858.4	875.0
122.5°	225.6	240.0	254.5	258.2	322.5	408.3	451.3	531.4	691.8	812.0	828.3
125°	245.5	258.6	271.9	275.2	331.5	406.6	444.1	512.2	648.4	750.5	765.4
127.5°	261.6	275.0	288.3	291.7	340.4	405.5	438.0	496.5	613.4	701.1	713.7
130°	270.3	284.7	299.1	302.6	347.0	406.1	435.7	487.7	591.9	670.0	681.6
132.5°	279.3	293.6	308.0	311.6	352.3	406.6	433.7	480.4	573.5	643.3	653.8
135°	292.5	305.6	318.7	321.9	358.1	406.2	430.3	469.3	547.3	605.8	614.9
137.5°	306.1	319.1	331.9	335.2	366.7	408.6	429.6	462.6	528.6	578.1	585.4
140°	317.4	329.3	341.2	344.2	372.0	409.1	427.7	456.2	513.1	555.8	562.7
142.5°	326.0	337.0	348.0	350.8	376.4	410.6	427.7	452.7	502.7	540.2	546.2
145°	339.3	348.9	358.6	361.0	382.3	410.6	424.8	445.2	486.1	516.9	521.4
147.5°	352.6	361.9	371.4	373.7	390.7	413.4	424.8	440.8	473.1	497.3	501.0
150°	361.3	369.8	378.2	380.3	395.2	414.9	424.8	438.4	465.6	486.0	488.9
152.5°	370.1	376.6	383.0	384.6	398.0	415.8	424.8	436.4	459.6	477.0	479.2
155°	383.5	388.3	392.9	394.1	404.3	418.0	424.8	434.0	452.5	466.3	467.8
157.5°	393.3	397.9	402.6	403.7	410.7	420.1	424.8	432.0	446.4	457.1	458.1
160°	399.9	403.5	407.0	408.0	413.6	421.0	424.8	430.9	443.3	452.5	453.1
162.5°	406.6	409.3	412.0	412.6	416.7	422.1	424.8	430.0	440.4	448.1	448.7
165°	413.8	416.2	418.6	419.3	421.1	423.6	424.8	428.5	435.9	441.5	442.2
167.5°	420.4	421.5	422.7	423.0	424.6	426.7	427.7	430.1	435.0	438.6	438.9
170°	424.8	425.9	427.1	427.4	427.5	427.6	427.7	430.1	435.0	438.6	438.6
172.5°	427.1	427.4	427.6	427.7	427.7	427.7	427.7	429.5	433.4	436.3	436.1
175°	430.3	430.3	430.3	430.3	429.5	428.2	427.7	428.9	431.3	433.1	433.1
177.5°	430.3	430.3	430.3	430.3	429.6	428.7	428.2	429.2	431.1	432.5	432.3
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7
2.5°	2569.7	2562.6	2569.7	2565.0	2567.4	2560.3	2538.9	2531.8	2538.9	2546.0	2546.0
5°	2600.5	2595.8	2600.5	2600.5	2598.2	2593.4	2569.7	2565.0	2569.7	2572.1	2567.4
7.5°	2610.1	2603.0	2610.1	2605.3	2605.3	2600.5	2576.8	2572.1	2574.5	2581.6	2574.5
10°	2610.1	2603.0	2610.1	2607.6	2605.3	2600.5	2576.8	2567.4	2567.4	2574.5	2567.4
12.5°	2598.2	2593.4	2598.2	2593.4	2593.4	2588.7	2565.0	2555.5	2557.9	2560.3	2550.8
15°	2579.2	2572.1	2579.2	2574.5	2576.8	2569.7	2543.7	2534.1	2534.1	2538.9	2522.4
17.5°	2550.8	2541.3	2550.8	2548.4	2546.0	2541.3	2517.6	2508.1	2505.7	2508.1	2496.2
20°	2517.6	2510.5	2517.6	2515.2	2515.2	2505.7	2482.0	2470.1	2470.1	2470.1	2458.3
22.5°	2465.4	2458.3	2465.4	2470.1	2470.1	2467.8	2446.4	2429.9	2425.1	2425.1	2410.9
25°	2406.2	2399.1	2406.2	2406.2	2403.8	2406.2	2399.1	2389.5	2382.4	2375.3	2361.2
27.5°	2349.3	2344.5	2349.3	2344.5	2349.3	2342.2	2339.8	2337.4	2327.9	2320.8	2301.8
30°	2292.4	2287.6	2292.4	2287.6	2282.9	2278.1	2266.3	2261.6	2271.0	2266.3	2235.4
32.5°	2221.2	2216.5	2221.2	2221.2	2216.5	2216.5	2197.5	2190.4	2192.8	2207.0	2178.6
35°	2147.7	2140.6	2147.7	2145.4	2147.7	2140.6	2128.8	2126.4	2116.9	2133.5	2112.2
37.5°	2062.5	2055.3	2062.5	2062.5	2062.5	2067.1	2057.7	2050.6	2036.3	2057.7	2041.1
40°	1974.8	1965.2	1974.8	1972.3	1974.8	1979.4	1974.8	1970.0	1955.7	1972.3	1958.1
42.5°	1875.2	1872.8	1875.2	1877.5	1877.5	1887.0	1894.2	1884.6	1879.9	1868.0	1877.5
45°	1768.4	1763.8	1768.4	1773.2	1775.5	1780.3	1801.7	1801.7	1794.6	1775.5	1789.8
47.5°	1654.7	1642.8	1654.7	1668.9	1668.9	1676.0	1697.4	1714.0	1702.1	1678.4	1685.5
50°	1533.8	1536.1	1533.8	1543.2	1543.2	1569.3	1585.9	1602.6	1614.4	1585.9	1552.8
52.5°	1415.3	1412.9	1415.3	1422.4	1431.8	1443.7	1472.2	1488.7	1507.7	1491.1	1438.9
55°	1296.7	1301.4	1296.7	1299.1	1303.9	1311.0	1353.6	1370.2	1405.8	1384.5	1329.9
57.5°	1178.1	1171.0	1178.1	1182.9	1185.3	1192.4	1227.9	1258.8	1280.1	1282.5	1216.2
60°	1040.7	1031.2	1040.7	1062.1	1066.8	1071.5	1104.7	1133.1	1152.1	1159.2	1090.4
62.5°	919.8	903.2	919.8	934.0	943.5	955.4	979.0	1021.7	1038.3	1040.7	943.5
65°	791.8	784.7	791.8	820.2	822.6	836.9	862.9	893.7	929.2	924.6	784.7
67.5°	675.7	675.7	675.7	694.6	708.8	715.9	749.1	763.4	808.4	813.1	654.3
70°	568.9	566.6	568.9	583.2	592.6	609.2	640.1	656.7	692.2	704.0	531.0
72.5°	467.0	464.7	467.0	478.9	488.4	502.6	528.6	547.6	578.4	592.6	412.5
75°	377.0	372.2	377.0	386.4	384.1	403.0	424.3	443.3	471.8	481.2	305.8
77.5°	289.3	289.3	289.3	298.7	298.7	317.7	327.2	350.8	367.4	381.6	225.2
80°	215.8	213.3	215.8	218.1	218.1	227.6	244.1	260.8	275.0	275.0	154.1
82.5°	151.7	147.0	151.7	151.7	151.7	156.4	166.0	170.6	180.2	187.3	97.2
85°	94.8	94.8	94.8	97.2	94.8	99.6	101.9	106.7	106.7	101.9	59.3
87.5°	61.6	59.3	61.6	59.3	59.3	56.9	56.9	56.9	54.5	52.1	33.2
90°	10.9	10.9	10.9	10.9	10.9	14.6	19.5	21.9	18.9	12.7	8.1
92.5°	43.9	35.2	43.9	52.7	54.8	77.7	108.3	123.6	108.5	78.4	55.8
95°	153.2	126.7	153.2	179.6	186.2	244.6	322.4	361.3	305.1	192.8	108.5
97.5°	367.1	316.8	367.1	417.3	429.9	466.8	516.0	540.6	447.0	259.7	119.3
100°	528.9	469.0	528.9	588.9	603.8	601.1	597.5	595.7	491.8	284.0	128.2
102.5°	688.1	636.7	688.1	739.4	752.2	705.3	642.6	611.3	505.9	295.2	137.2
105°	891.0	863.4	891.0	918.6	925.5	820.1	679.8	609.5	507.5	303.5	150.5
107.5°	1023.9	1030.6	1023.9	1017.2	1015.5	868.6	672.8	574.9	484.9	305.0	170.1
110°	1074.6	1103.3	1074.6	1045.9	1038.7	874.5	655.5	546.0	464.9	302.7	181.0

TEST NUMBER: P934607

CATALOG NUMBER: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1079.1	1123.2	1079.1	1035.0	1023.9	855.9	631.9	519.8	447.5	302.8	194.4
115°	1050.5	1111.7	1050.5	989.3	974.0	812.1	596.3	488.3	427.4	305.6	214.3
117.5°	989.9	1057.8	989.9	922.0	905.0	758.9	564.0	466.6	414.9	311.3	233.6
120°	940.9	1006.9	940.9	875.0	858.4	725.0	547.0	457.9	410.6	315.9	244.9
122.5°	893.4	958.4	893.4	828.3	812.0	691.8	531.4	451.3	408.3	322.5	258.2
125°	825.4	885.3	825.4	765.4	750.5	648.4	512.2	444.1	406.6	331.5	275.2
127.5°	764.3	814.9	764.3	713.7	701.1	613.4	496.5	438.0	405.5	340.4	291.7
130°	728.3	775.0	728.3	681.6	670.0	591.9	487.7	435.7	406.1	347.0	302.6
132.5°	695.6	737.5	695.6	653.8	643.3	573.5	480.4	433.7	406.6	352.3	311.6
135°	650.9	687.0	650.9	614.9	605.8	547.3	469.3	430.3	406.2	358.1	321.9
137.5°	615.0	644.6	615.0	585.4	578.1	528.6	462.6	429.6	408.6	366.7	335.2
140°	590.3	617.9	590.3	562.7	555.8	513.1	456.2	427.7	409.1	372.0	344.2
142.5°	569.9	593.7	569.9	546.2	540.2	502.7	452.7	427.7	410.6	376.4	350.8
145°	539.4	557.3	539.4	521.4	516.9	486.1	445.2	424.8	410.6	382.3	361.0
147.5°	515.8	530.7	515.8	501.0	497.3	473.1	440.8	424.8	413.4	390.7	373.7
150°	501.1	513.1	501.1	488.9	486.0	465.6	438.4	424.8	414.9	395.2	380.3
152.5°	488.4	497.5	488.4	479.2	477.0	459.6	436.4	424.8	415.8	398.0	384.6
155°	473.9	479.9	473.9	467.8	466.3	452.5	434.0	424.8	418.0	404.3	394.1
157.5°	462.4	466.6	462.4	458.1	457.1	446.4	432.0	424.8	420.1	410.7	403.7
160°	455.5	457.9	455.5	453.1	452.5	443.3	430.9	424.8	421.0	413.6	408.0
162.5°	451.0	453.4	451.0	448.7	448.1	440.4	430.0	424.8	422.1	416.7	412.6
165°	444.6	447.0	444.6	442.2	441.5	435.9	428.5	424.8	423.6	421.1	419.3
167.5°	439.9	440.9	439.9	438.9	438.6	435.0	430.1	427.7	426.7	424.6	423.0
170°	438.6	438.6	438.6	438.6	438.6	435.0	430.1	427.7	427.6	427.5	427.4
172.5°	435.2	434.3	435.2	436.1	436.3	433.4	429.5	427.7	427.7	427.7	427.7
175°	433.1	433.1	433.1	433.1	433.1	431.3	428.9	427.7	428.2	429.5	430.3
177.5°	431.3	430.3	431.3	432.3	432.5	431.1	429.2	428.2	428.7	429.6	430.3
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3

TEST NUMBER: P934607

CATALOG NUMBER: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7
2.5°	2541.3	2527.0	2527.0	2503.4	2493.9	2486.8	2474.9	2439.3	2429.9	2420.4	2434.6
5°	2562.6	2536.6	2517.6	2474.9	2439.3	2425.1	2380.1	2294.7	2237.9	2195.2	2171.5
7.5°	2567.4	2534.1	2498.6	2432.2	2346.9	2308.9	2171.5	2015.0	1972.3	1934.4	1910.7
10°	2562.6	2524.7	2474.9	2375.3	2173.9	2107.5	1970.0	1868.0	1841.9	1834.8	1841.9
12.5°	2546.0	2510.5	2441.8	2275.8	1993.7	1948.6	1868.0	1808.8	1804.0	1815.9	1879.9
15°	2517.6	2484.3	2403.8	2143.1	1894.2	1860.9	1804.0	1782.7	1808.8	1891.7	2083.8
17.5°	2489.1	2451.2	2351.6	2012.7	1818.2	1794.6	1754.2	1796.9	1943.9	2055.3	2119.3
20°	2451.2	2406.2	2292.4	1917.8	1763.8	1742.4	1723.4	1915.4	2026.9	2067.1	2102.7
22.5°	2406.2	2358.7	2211.8	1851.5	1706.8	1690.3	1702.1	1981.9	2026.9	2055.3	2086.1
25°	2346.9	2306.6	2116.9	1799.3	1661.8	1642.8	1687.8	1974.8	2000.8	2007.9	2069.6
27.5°	2292.4	2240.2	2017.3	1751.9	1607.2	1600.1	1699.7	1943.9	1962.9	1970.0	2036.3
30°	2226.0	2147.7	1905.9	1702.1	1550.3	1548.0	1702.1	1905.9	1901.3	1920.2	1986.5
32.5°	2157.3	2010.2	1780.3	1640.5	1495.9	1493.5	1685.5	1849.0	1844.4	1870.4	1920.2
35°	2093.3	1903.6	1609.7	1569.3	1427.1	1429.5	1645.2	1782.7	1785.1	1808.8	1839.6
37.5°	2026.9	1811.1	1422.4	1491.1	1360.7	1360.7	1590.7	1721.1	1716.3	1723.4	1766.1
40°	1948.6	1666.5	1256.4	1389.1	1299.1	1292.0	1524.3	1654.7	1638.0	1635.7	1695.0
42.5°	1865.7	1507.7	1133.1	1254.1	1227.9	1218.5	1443.7	1574.1	1543.2	1550.3	1626.2
45°	1775.5	1465.1	1038.3	1059.6	1154.5	1147.3	1356.0	1481.6	1460.3	1479.3	1557.4
47.5°	1685.5	1379.7	1007.5	879.5	1076.2	1073.9	1258.8	1391.6	1379.7	1398.7	1481.6
50°	1562.2	1284.9	1005.2	753.8	988.5	998.0	1142.7	1303.9	1303.9	1320.4	1408.1
52.5°	1403.4	1168.7	912.7	682.8	886.6	915.0	1040.7	1227.9	1232.7	1249.3	1327.5
55°	1258.8	1047.8	846.3	628.2	765.7	827.3	941.1	1149.8	1159.2	1175.8	1246.9
57.5°	1126.0	872.4	832.1	564.2	654.3	713.6	853.4	1073.9	1078.6	1092.9	1161.6
60°	983.8	630.5	763.4	495.5	557.1	602.1	772.8	983.8	1000.4	1009.8	1069.1
62.5°	822.6	457.6	692.2	448.0	509.7	519.1	706.5	898.4	919.8	926.9	962.5
65°	585.5	384.1	588.0	407.8	459.9	462.2	635.3	810.7	829.7	841.5	867.7
67.5°	395.9	312.9	448.0	369.8	422.0	424.3	566.6	708.8	734.9	744.4	760.9
70°	275.0	208.7	331.9	329.5	379.3	384.1	493.1	616.3	640.1	647.2	656.7
72.5°	201.5	168.3	275.0	296.4	334.3	339.0	417.2	512.0	535.7	542.8	547.6
75°	154.1	177.8	222.9	258.4	284.5	286.8	341.4	417.2	433.8	438.6	440.9
77.5°	123.3	166.0	163.5	208.7	232.3	227.6	267.9	322.4	336.6	336.6	336.6
80°	92.5	130.4	123.3	149.3	170.6	166.0	192.0	230.0	234.7	239.4	237.0
82.5°	68.7	82.9	82.9	94.8	113.8	109.1	128.1	149.3	149.3	149.3	154.1
85°	42.7	47.4	37.9	49.8	64.0	61.6	71.1	80.6	82.9	82.9	78.3
87.5°	26.1	21.3	11.9	19.0	28.5	28.5	33.2	35.6	33.2	33.2	33.2
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.7	18.9	21.9	19.5	14.6
92.5°	50.8	31.2	11.6	31.2	50.8	55.8	78.4	108.5	123.6	108.3	77.7
95°	99.6	63.6	27.7	63.6	99.6	108.5	192.8	305.1	361.3	322.4	244.6
97.5°	111.3	79.7	47.9	79.7	111.3	119.3	259.7	447.0	540.6	516.0	466.8
100°	121.0	92.3	63.5	92.3	121.0	128.2	284.0	491.8	595.7	597.5	601.1
102.5°	130.5	103.7	76.8	103.7	130.5	137.2	295.2	505.9	611.3	642.6	705.3
105°	144.8	122.1	99.4	122.1	144.8	150.5	303.5	507.5	609.5	679.8	820.1
107.5°	164.8	143.6	122.4	143.6	164.8	170.1	305.0	484.9	574.9	672.8	868.6
110°	176.2	157.1	138.0	157.1	176.2	181.0	302.7	464.9	546.0	655.5	874.5

TEST NUMBER: P934607

CATALOG NUMBER: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	189.8	171.6	153.4	171.6	189.8	194.4	302.8	447.5	519.8	631.9	855.9
115°	210.1	193.2	176.4	193.2	210.1	214.3	305.6	427.4	488.3	596.3	812.1
117.5°	229.8	214.5	199.2	214.5	229.8	233.6	311.3	414.9	466.6	564.0	758.9
120°	241.3	226.9	212.5	226.9	241.3	244.9	315.9	410.6	457.9	547.0	725.0
122.5°	254.5	240.0	225.6	240.0	254.5	258.2	322.5	408.3	451.3	531.4	691.8
125°	271.9	258.6	245.5	258.6	271.9	275.2	331.5	406.6	444.1	512.2	648.4
127.5°	288.3	275.0	261.6	275.0	288.3	291.7	340.4	405.5	438.0	496.5	613.4
130°	299.1	284.7	270.3	284.7	299.1	302.6	347.0	406.1	435.7	487.7	591.9
132.5°	308.0	293.6	279.3	293.6	308.0	311.6	352.3	406.6	433.7	480.4	573.5
135°	318.7	305.6	292.5	305.6	318.7	321.9	358.1	406.2	430.3	469.3	547.3
137.5°	331.9	319.1	306.1	319.1	331.9	335.2	366.7	408.6	429.6	462.6	528.6
140°	341.2	329.3	317.4	329.3	341.2	344.2	372.0	409.1	427.7	456.2	513.1
142.5°	348.0	337.0	326.0	337.0	348.0	350.8	376.4	410.6	427.7	452.7	502.7
145°	358.6	348.9	339.3	348.9	358.6	361.0	382.3	410.6	424.8	445.2	486.1
147.5°	371.4	361.9	352.6	361.9	371.4	373.7	390.7	413.4	424.8	440.8	473.1
150°	378.2	369.8	361.3	369.8	378.2	380.3	395.2	414.9	424.8	438.4	465.6
152.5°	383.0	376.6	370.1	376.6	383.0	384.6	398.0	415.8	424.8	436.4	459.6
155°	392.9	388.3	383.5	388.3	392.9	394.1	404.3	418.0	424.8	434.0	452.5
157.5°	402.6	397.9	393.3	397.9	402.6	403.7	410.7	420.1	424.8	432.0	446.4
160°	407.0	403.5	399.9	403.5	407.0	408.0	413.6	421.0	424.8	430.9	443.3
162.5°	412.0	409.3	406.6	409.3	412.0	412.6	416.7	422.1	424.8	430.0	440.4
165°	418.6	416.2	413.8	416.2	418.6	419.3	421.1	423.6	424.8	428.5	435.9
167.5°	422.7	421.5	420.4	421.5	422.7	423.0	424.6	426.7	427.7	430.1	435.0
170°	427.1	425.9	424.8	425.9	427.1	427.4	427.5	427.6	427.7	430.1	435.0
172.5°	427.6	427.4	427.1	427.4	427.6	427.7	427.7	427.7	427.7	429.5	433.4
175°	430.3	430.3	430.3	430.3	430.3	430.3	429.5	428.2	427.7	428.9	431.3
177.5°	430.3	430.3	430.3	430.3	430.3	430.3	429.6	428.7	428.2	429.2	431.1
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3

TEST NUMBER: P934607

CATALOG NUMBER: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7
2.5°	2418.0	2410.9	2420.4	2394.3	2420.4	2410.9	2418.0	2434.6	2420.4	2429.9	2439.3
5°	2121.7	2109.8	2071.9	2041.1	2071.9	2109.8	2121.7	2171.5	2195.2	2237.9	2294.7
7.5°	1896.5	1887.0	1877.5	1858.6	1877.5	1887.0	1896.5	1910.7	1934.4	1972.3	2015.0
10°	1846.7	1849.0	1863.3	1860.9	1863.3	1849.0	1846.7	1841.9	1834.8	1841.9	1868.0
12.5°	1974.8	1996.1	2074.3	2069.6	2074.3	1996.1	1974.8	1879.9	1815.9	1804.0	1808.8
15°	2121.7	2128.8	2145.4	2147.7	2145.4	2128.8	2121.7	2083.8	1891.7	1808.8	1782.7
17.5°	2135.9	2138.3	2150.2	2150.2	2150.2	2138.3	2135.9	2119.3	2055.3	1943.9	1796.9
20°	2124.1	2128.8	2152.5	2157.3	2152.5	2128.8	2124.1	2102.7	2067.1	2026.9	1915.4
22.5°	2119.3	2128.8	2147.7	2145.4	2147.7	2128.8	2119.3	2086.1	2055.3	2026.9	1981.9
25°	2095.6	2095.6	2098.0	2100.4	2098.0	2095.6	2095.6	2069.6	2007.9	2000.8	1974.8
27.5°	2045.8	2050.6	2064.8	2062.5	2064.8	2050.6	2045.8	2036.3	1970.0	1962.9	1943.9
30°	2000.8	1996.1	1984.2	1974.8	1984.2	1996.1	2000.8	1986.5	1920.2	1901.3	1905.9
32.5°	1925.0	1913.1	1901.3	1894.2	1901.3	1913.1	1925.0	1920.2	1870.4	1844.4	1849.0
35°	1834.8	1837.2	1834.8	1827.7	1834.8	1837.2	1834.8	1839.6	1808.8	1785.1	1782.7
37.5°	1770.9	1775.5	1773.2	1763.8	1773.2	1775.5	1770.9	1766.1	1723.4	1716.3	1721.1
40°	1704.5	1706.8	1704.5	1697.4	1704.5	1706.8	1704.5	1695.0	1635.7	1638.0	1654.7
42.5°	1640.5	1638.0	1631.0	1626.2	1631.0	1638.0	1640.5	1626.2	1550.3	1543.2	1574.1
45°	1567.0	1569.3	1555.1	1548.0	1555.1	1569.3	1567.0	1557.4	1479.3	1460.3	1481.6
47.5°	1493.5	1493.5	1481.6	1474.5	1481.6	1493.5	1493.5	1481.6	1398.7	1379.7	1391.6
50°	1415.3	1412.9	1396.3	1393.9	1396.3	1412.9	1415.3	1408.1	1320.4	1303.9	1303.9
52.5°	1325.2	1325.2	1327.5	1332.3	1327.5	1325.2	1325.2	1327.5	1249.3	1232.7	1227.9
55°	1246.9	1249.3	1265.9	1270.6	1265.9	1249.3	1246.9	1246.9	1175.8	1159.2	1149.8
57.5°	1166.4	1166.4	1178.1	1178.1	1178.1	1166.4	1166.4	1161.6	1092.9	1078.6	1073.9
60°	1073.9	1078.6	1088.1	1085.8	1088.1	1078.6	1073.9	1069.1	1009.8	1000.4	983.8
62.5°	976.7	981.4	983.8	979.0	983.8	981.4	976.7	962.5	926.9	919.8	898.4
65°	874.8	879.5	881.9	877.1	881.9	879.5	874.8	867.7	841.5	829.7	810.7
67.5°	770.5	768.0	765.7	775.2	765.7	768.0	770.5	760.9	744.4	734.9	708.8
70°	663.8	663.8	661.4	666.1	661.4	663.8	663.8	656.7	647.2	640.1	616.3
72.5°	549.9	547.6	557.1	549.9	557.1	547.6	549.9	547.6	542.8	535.7	512.0
75°	438.6	443.3	438.6	445.7	438.6	443.3	438.6	440.9	438.6	433.8	417.2
77.5°	334.3	339.0	334.3	334.3	334.3	339.0	334.3	336.6	336.6	336.6	322.4
80°	237.0	234.7	234.7	232.3	234.7	234.7	237.0	237.0	239.4	234.7	230.0
82.5°	151.7	149.3	149.3	154.1	149.3	149.3	151.7	154.1	149.3	149.3	149.3
85°	82.9	85.4	80.6	80.6	80.6	85.4	82.9	78.3	82.9	82.9	80.6
87.5°	30.8	28.5	28.5	28.5	28.5	28.5	30.8	33.2	33.2	33.2	35.6
90°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	14.6	19.5	21.9	18.9
92.5°	54.8	52.7	43.9	35.2	43.9	52.7	54.8	77.7	108.3	123.6	108.5
95°	186.2	179.6	153.2	126.7	153.2	179.6	186.2	244.6	322.4	361.3	305.1
97.5°	429.9	417.3	367.1	316.8	367.1	417.3	429.9	466.8	516.0	540.6	447.0
100°	603.8	588.9	528.9	469.0	528.9	588.9	603.8	601.1	597.5	595.7	491.8
102.5°	752.2	739.4	688.1	636.7	688.1	739.4	752.2	705.3	642.6	611.3	505.9
105°	925.5	918.6	891.0	863.4	891.0	918.6	925.5	820.1	679.8	609.5	507.5
107.5°	1015.5	1017.2	1023.9	1030.6	1023.9	1017.2	1015.5	868.6	672.8	574.9	484.9
110°	1038.7	1045.9	1074.6	1103.3	1074.6	1045.9	1038.7	874.5	655.5	546.0	464.9

TEST NUMBER: P934607

CATALOG NUMBER: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1023.9	1035.0	1079.1	1123.2	1079.1	1035.0	1023.9	855.9	631.9	519.8	447.5
115°	974.0	989.3	1050.5	1111.7	1050.5	989.3	974.0	812.1	596.3	488.3	427.4
117.5°	905.0	922.0	989.9	1057.8	989.9	922.0	905.0	758.9	564.0	466.6	414.9
120°	858.4	875.0	940.9	1006.9	940.9	875.0	858.4	725.0	547.0	457.9	410.6
122.5°	812.0	828.3	893.4	958.4	893.4	828.3	812.0	691.8	531.4	451.3	408.3
125°	750.5	765.4	825.4	885.3	825.4	765.4	750.5	648.4	512.2	444.1	406.6
127.5°	701.1	713.7	764.3	814.9	764.3	713.7	701.1	613.4	496.5	438.0	405.5
130°	670.0	681.6	728.3	775.0	728.3	681.6	670.0	591.9	487.7	435.7	406.1
132.5°	643.3	653.8	695.6	737.5	695.6	653.8	643.3	573.5	480.4	433.7	406.6
135°	605.8	614.9	650.9	687.0	650.9	614.9	605.8	547.3	469.3	430.3	406.2
137.5°	578.1	585.4	615.0	644.6	615.0	585.4	578.1	528.6	462.6	429.6	408.6
140°	555.8	562.7	590.3	617.9	590.3	562.7	555.8	513.1	456.2	427.7	409.1
142.5°	540.2	546.2	569.9	593.7	569.9	546.2	540.2	502.7	452.7	427.7	410.6
145°	516.9	521.4	539.4	557.3	539.4	521.4	516.9	486.1	445.2	424.8	410.6
147.5°	497.3	501.0	515.8	530.7	515.8	501.0	497.3	473.1	440.8	424.8	413.4
150°	486.0	488.9	501.1	513.1	501.1	488.9	486.0	465.6	438.4	424.8	414.9
152.5°	477.0	479.2	488.4	497.5	488.4	479.2	477.0	459.6	436.4	424.8	415.8
155°	466.3	467.8	473.9	479.9	473.9	467.8	466.3	452.5	434.0	424.8	418.0
157.5°	457.1	458.1	462.4	466.6	462.4	458.1	457.1	446.4	432.0	424.8	420.1
160°	452.5	453.1	455.5	457.9	455.5	453.1	452.5	443.3	430.9	424.8	421.0
162.5°	448.1	448.7	451.0	453.4	451.0	448.7	448.1	440.4	430.0	424.8	422.1
165°	441.5	442.2	444.6	447.0	444.6	442.2	441.5	435.9	428.5	424.8	423.6
167.5°	438.6	438.9	439.9	440.9	439.9	438.9	438.6	435.0	430.1	427.7	426.7
170°	438.6	438.6	438.6	438.6	438.6	438.6	438.6	435.0	430.1	427.7	427.6
172.5°	436.3	436.1	435.2	434.3	435.2	436.1	436.3	433.4	429.5	427.7	427.7
175°	433.1	433.1	433.1	433.1	433.1	433.1	433.1	431.3	428.9	427.7	428.2
177.5°	432.5	432.3	431.3	430.3	431.3	432.3	432.5	431.1	429.2	428.2	428.7
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3

TEST NUMBER: P934607

CATALOG NUMBER: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2505.7	2505.7	2505.7	2505.7	2505.7
2.5°	2474.9	2486.8	2493.9	2503.4	2527.0
5°	2380.1	2425.1	2439.3	2474.9	2517.6
7.5°	2171.5	2308.9	2346.9	2432.2	2498.6
10°	1970.0	2107.5	2173.9	2375.3	2474.9
12.5°	1868.0	1948.6	1993.7	2275.8	2441.8
15°	1804.0	1860.9	1894.2	2143.1	2403.8
17.5°	1754.2	1794.6	1818.2	2012.7	2351.6
20°	1723.4	1742.4	1763.8	1917.8	2292.4
22.5°	1702.1	1690.3	1706.8	1851.5	2211.8
25°	1687.8	1642.8	1661.8	1799.3	2116.9
27.5°	1699.7	1600.1	1607.2	1751.9	2017.3
30°	1702.1	1548.0	1550.3	1702.1	1905.9
32.5°	1685.5	1493.5	1495.9	1640.5	1780.3
35°	1645.2	1429.5	1427.1	1569.3	1609.7
37.5°	1590.7	1360.7	1360.7	1491.1	1422.4
40°	1524.3	1292.0	1299.1	1389.1	1256.4
42.5°	1443.7	1218.5	1227.9	1254.1	1133.1
45°	1356.0	1147.3	1154.5	1059.6	1038.3
47.5°	1258.8	1073.9	1076.2	879.5	1007.5
50°	1142.7	998.0	988.5	753.8	1005.2
52.5°	1040.7	915.0	886.6	682.8	912.7
55°	941.1	827.3	765.7	628.2	846.3
57.5°	853.4	713.6	654.3	564.2	832.1
60°	772.8	602.1	557.1	495.5	763.4
62.5°	706.5	519.1	509.7	448.0	692.2
65°	635.3	462.2	459.9	407.8	588.0
67.5°	566.6	424.3	422.0	369.8	448.0
70°	493.1	384.1	379.3	329.5	331.9
72.5°	417.2	339.0	334.3	296.4	275.0
75°	341.4	286.8	284.5	258.4	222.9
77.5°	267.9	227.6	232.3	208.7	163.5
80°	192.0	166.0	170.6	149.3	123.3
82.5°	128.1	109.1	113.8	94.8	82.9
85°	71.1	61.6	64.0	49.8	37.9
87.5°	33.2	28.5	28.5	19.0	11.9
90°	12.7	8.1	7.6	5.2	2.9
92.5°	78.4	55.8	50.8	31.2	11.6
95°	192.8	108.5	99.6	63.6	27.7
97.5°	259.7	119.3	111.3	79.7	47.9
100°	284.0	128.2	121.0	92.3	63.5
102.5°	295.2	137.2	130.5	103.7	76.8
105°	303.5	150.5	144.8	122.1	99.4
107.5°	305.0	170.1	164.8	143.6	122.4
110°	302.7	181.0	176.2	157.1	138.0

TEST NUMBER: P934607

CATALOG NUMBER: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	302.8	194.4	189.8	171.6	153.4
115°	305.6	214.3	210.1	193.2	176.4
117.5°	311.3	233.6	229.8	214.5	199.2
120°	315.9	244.9	241.3	226.9	212.5
122.5°	322.5	258.2	254.5	240.0	225.6
125°	331.5	275.2	271.9	258.6	245.5
127.5°	340.4	291.7	288.3	275.0	261.6
130°	347.0	302.6	299.1	284.7	270.3
132.5°	352.3	311.6	308.0	293.6	279.3
135°	358.1	321.9	318.7	305.6	292.5
137.5°	366.7	335.2	331.9	319.1	306.1
140°	372.0	344.2	341.2	329.3	317.4
142.5°	376.4	350.8	348.0	337.0	326.0
145°	382.3	361.0	358.6	348.9	339.3
147.5°	390.7	373.7	371.4	361.9	352.6
150°	395.2	380.3	378.2	369.8	361.3
152.5°	398.0	384.6	383.0	376.6	370.1
155°	404.3	394.1	392.9	388.3	383.5
157.5°	410.7	403.7	402.6	397.9	393.3
160°	413.6	408.0	407.0	403.5	399.9
162.5°	416.7	412.6	412.0	409.3	406.6
165°	421.1	419.3	418.6	416.2	413.8
167.5°	424.6	423.0	422.7	421.5	420.4
170°	427.5	427.4	427.1	425.9	424.8
172.5°	427.7	427.7	427.6	427.4	427.1
175°	429.5	430.3	430.3	430.3	430.3
177.5°	429.6	430.3	430.3	430.3	430.3
180°	430.3	430.3	430.3	430.3	430.3

(END OF REPORT)