

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: P934603

Luminaire Tested: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934603
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-B40-1D-UNV-W2A-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

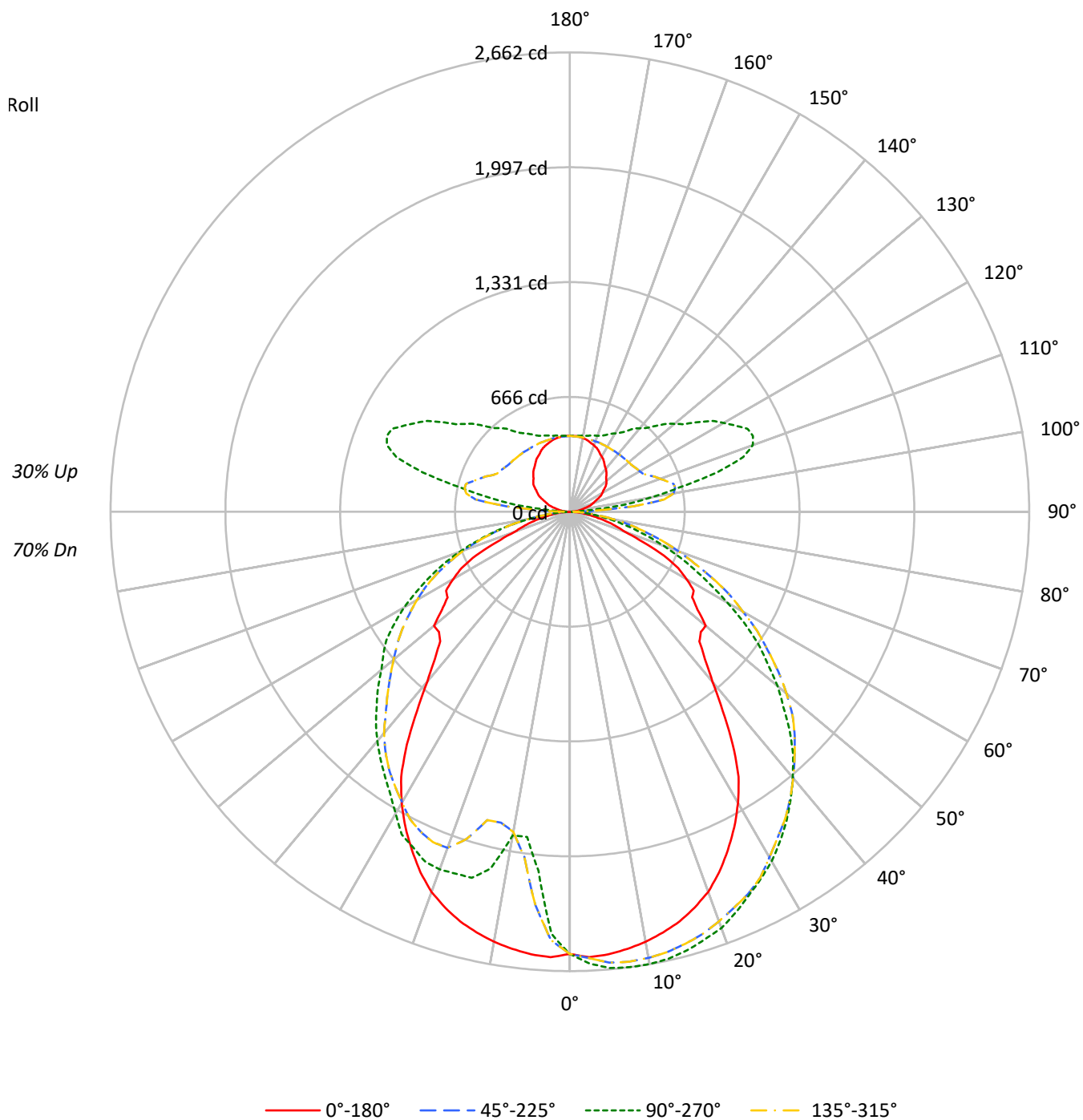
Lumens per Lamp: N/A
Luminaire Lumens: 9496.5 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

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°	15850	15850	15850	15850
5°	15962	15999	15962	12580
10°	15850	15760	15850	11267
15°	15671	15419	15671	12874
20°	15338	15014	15338	12902
25°	14660	14424	14660	12628
30°	13788	13934	13788	12029
35°	12286	13315	12286	11368
40°	10231	12585	10231	10870
45°	9136	11732	9136	10297
50°	9699	10714	9699	9721
55°	9115	9616	9115	9389
60°	9386	8167	9386	8600
65°	8497	6751	8497	7547
70°	5868	5380	5868	6326
75°	5128	3978	5128	4763
80°	4104	2629	4104	2863
85°	2313	1392	2313	1184

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 14011 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	2.4
10°-20°	656.6	6.9
20°-30°	1015.1	10.7
30°-40°	1211.8	12.8
40°-50°	1218.9	12.8
50°-60°	1060.5	11.2
60°-70°	751.9	7.9
70°-80°	397.8	4.2
80°-90°	100.8	1.1
90°-100°	214.4	2.3
100°-110°	563.8	5.9
110°-120°	584.6	6.2
120°-130°	468.9	4.9
130°-140°	367.9	3.9
140°-150°	282.4	3.0
150°-160°	203.4	2.1
160°-170°	124.4	1.3
170°-180°	42.0	0.4
0°-30°	1903.0	20.0
0°-40°	3114.7	32.8
0°-60°	5394.1	56.8
0°-90°	6644.7	70.0
90°-120°	1362.8	14.4
90°-150°	2482.0	26.1
90°-180°	2852.0	30.0
0°-180°	9496.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2562	2562	2562	2562	2562	
5°	2574	2654	2574	2087	2574	244
15°	2458	2630	2458	2196	2458	692
25°	2164	2453	2164	2148	2164	994
35°	1646	2189	1646	1869	1646	1018
45°	1062	1803	1062	1583	1062	850
55°	865	1331	865	1299	865	795
65°	601	802	601	897	601	575
75°	228	381	228	456	228	240
85°	39	97	39	82	39	52
90°	3	11	3	11	3	4
95°	28	130	28	130	28	31
105°	102	883	102	883	102	108
115°	180	1137	180	1137	180	178
125°	251	905	251	905	251	223
135°	299	702	299	702	299	231
145°	347	570	347	570	347	217
155°	392	491	392	491	392	180
165°	423	457	423	457	423	119
175°	440	443	440	443	440	42
180°	440	440	440	440	440	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2583.8	2583.8	2598.5	2603.2	2603.2	2596.0	2588.7	2596.0	2617.8	2625.1	2622.6
5°	2574.2	2593.6	2620.2	2625.1	2630.0	2627.5	2622.6	2627.5	2651.7	2656.6	2659.0
7.5°	2554.8	2591.1	2625.1	2632.4	2639.6	2632.4	2630.0	2634.7	2659.0	2663.9	2663.9
10°	2530.6	2581.5	2620.2	2625.1	2632.4	2625.1	2625.1	2634.7	2659.0	2663.9	2666.3
12.5°	2496.7	2566.9	2603.2	2608.1	2617.8	2615.4	2613.0	2622.6	2646.9	2651.7	2651.7
15°	2457.9	2540.2	2574.2	2579.1	2596.0	2591.1	2591.1	2600.8	2627.5	2634.7	2632.4
17.5°	2404.5	2506.3	2545.1	2552.3	2564.5	2562.1	2564.5	2574.2	2598.5	2603.2	2605.7
20°	2344.0	2460.3	2506.3	2513.6	2525.7	2525.7	2525.7	2537.8	2562.1	2571.7	2571.7
22.5°	2261.5	2411.8	2460.3	2465.1	2479.7	2479.7	2484.5	2501.4	2523.3	2525.7	2525.7
25°	2164.5	2358.5	2399.6	2414.2	2428.8	2436.0	2443.3	2453.0	2460.3	2457.9	2460.3
27.5°	2062.7	2290.6	2344.0	2353.6	2373.0	2380.2	2390.0	2392.4	2394.9	2402.1	2397.2
30°	1948.8	2196.0	2276.1	2285.7	2317.2	2322.1	2312.4	2317.2	2329.3	2334.2	2339.1
32.5°	1820.3	2055.4	2205.8	2227.5	2256.7	2242.1	2239.7	2246.9	2266.3	2266.3	2271.2
35°	1645.8	1946.4	2140.3	2159.7	2181.5	2164.5	2174.2	2176.6	2188.8	2196.0	2193.6
37.5°	1454.4	1851.8	2072.4	2087.0	2104.0	2082.1	2096.7	2104.0	2113.6	2108.8	2108.8
40°	1284.7	1704.0	1992.4	2002.2	2016.7	1999.7	2014.3	2019.2	2023.9	2019.2	2016.7
42.5°	1158.6	1541.6	1907.6	1919.7	1910.0	1922.1	1927.0	1936.7	1929.4	1919.7	1919.7
45°	1061.7	1498.0	1815.5	1830.1	1815.5	1834.9	1842.2	1842.2	1820.3	1815.5	1813.1
47.5°	1030.2	1410.7	1723.4	1723.4	1716.1	1740.4	1752.5	1735.5	1713.7	1706.4	1706.4
50°	1027.8	1313.8	1597.3	1587.7	1621.6	1650.7	1638.6	1621.6	1604.6	1577.9	1577.9
52.5°	933.2	1195.0	1435.0	1471.3	1524.7	1541.6	1522.2	1505.3	1476.1	1464.0	1454.4
55°	865.3	1071.3	1287.1	1359.8	1415.6	1437.4	1401.0	1384.1	1340.4	1333.2	1328.3
57.5°	850.8	892.0	1151.3	1243.5	1311.3	1308.9	1287.1	1255.5	1219.2	1212.0	1209.5
60°	780.5	644.7	1005.9	1115.0	1185.3	1178.0	1158.6	1129.6	1095.6	1090.8	1085.9
62.5°	707.8	467.9	841.1	964.7	1064.1	1061.7	1044.7	1001.0	976.9	964.7	955.0
65°	601.2	392.7	598.7	802.3	945.4	950.1	913.8	882.3	855.7	841.1	838.7
67.5°	458.1	319.9	404.8	669.0	831.4	826.6	780.5	765.9	732.0	724.7	710.2
70°	339.3	213.3	281.2	542.9	719.9	707.8	671.5	654.5	622.9	605.9	596.3
72.5°	281.2	172.1	206.0	421.7	605.9	591.4	559.9	540.5	513.9	499.4	489.6
75°	227.9	181.8	157.6	312.7	492.0	482.4	453.2	433.9	412.1	392.7	395.1
77.5°	167.2	169.7	126.1	230.3	390.2	375.7	358.7	334.5	324.8	305.4	305.4
80°	126.1	133.3	94.5	157.6	281.2	281.2	266.6	249.6	232.7	223.0	223.0
82.5°	84.8	84.8	70.3	99.4	191.5	184.2	174.5	169.7	160.0	155.1	155.1
85°	38.8	48.5	43.6	60.6	104.2	109.1	109.1	104.2	101.8	96.9	99.4
87.5°	12.1	21.8	26.6	33.9	53.3	55.8	58.2	58.2	58.2	60.6	60.6
90°	3.0	5.3	7.7	8.3	13.0	19.3	22.4	20.0	14.9	11.2	11.2
92.5°	11.8	31.9	52.0	57.0	80.1	111.0	126.3	110.7	79.5	56.1	53.9
95°	28.4	65.0	101.8	111.0	197.1	312.0	369.4	329.7	250.1	190.4	183.6
97.5°	49.0	81.5	113.8	122.0	265.6	457.1	552.8	527.6	477.3	439.6	426.7
100°	64.9	94.4	123.8	131.1	290.4	502.9	609.1	610.9	614.6	617.4	602.1
102.5°	78.5	106.0	133.4	140.3	301.9	517.3	625.0	657.0	721.1	769.2	756.1
105°	101.6	124.8	148.0	153.9	310.3	518.9	623.2	695.0	838.6	946.3	939.2
107.5°	125.2	146.9	168.5	173.9	311.9	495.8	587.8	687.9	888.2	1038.4	1040.1
110°	141.1	160.6	180.2	185.1	309.5	475.4	558.3	670.2	894.2	1062.1	1069.4

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	156.8	175.4	194.1	198.7	309.6	457.5	531.5	646.1	875.2	1047.0	1058.2
115°	180.4	197.6	214.8	219.1	312.5	437.0	499.3	609.7	830.4	995.9	1011.5
117.5°	203.7	219.4	234.9	238.8	318.3	424.2	477.1	576.7	775.9	925.3	942.7
120°	217.3	232.0	246.7	250.4	323.0	419.8	468.2	559.2	741.3	877.7	894.6
122.5°	230.6	245.4	260.2	264.0	329.8	417.5	461.5	543.4	707.4	830.3	846.9
125°	251.0	264.4	278.0	281.3	338.9	415.7	454.1	523.7	663.0	767.3	782.6
127.5°	267.5	281.2	294.8	298.2	348.1	414.7	447.9	507.7	627.1	716.8	729.7
130°	276.4	291.1	305.8	309.4	354.8	415.2	445.5	498.7	605.2	685.0	697.0
132.5°	285.5	300.3	315.0	318.6	360.2	415.7	443.5	491.2	586.4	657.8	668.5
135°	299.1	312.5	325.8	329.2	366.1	415.3	440.0	479.9	559.6	619.4	628.7
137.5°	313.0	326.2	339.4	342.7	374.9	417.8	439.3	473.0	540.4	591.0	598.6
140°	324.5	336.7	348.9	351.9	380.4	418.3	437.3	466.4	524.7	568.3	575.4
142.5°	333.3	344.6	355.8	358.7	384.9	419.8	437.3	462.9	514.0	552.4	558.5
145°	347.0	356.8	366.6	369.1	390.9	419.8	434.3	455.2	497.1	528.5	533.1
147.5°	360.5	370.1	379.7	382.1	399.5	422.7	434.3	450.8	483.7	508.4	512.3
150°	369.4	378.1	386.7	388.9	404.1	424.2	434.3	448.3	476.1	496.9	499.9
152.5°	378.5	385.1	391.6	393.3	406.9	425.2	434.3	446.2	470.0	487.7	490.0
155°	392.1	397.0	401.8	403.0	413.4	427.4	434.3	443.8	462.7	476.8	478.4
157.5°	402.2	406.8	411.6	412.8	419.9	429.6	434.3	441.7	456.4	467.4	468.4
160°	408.9	412.6	416.2	417.1	422.9	430.5	434.3	440.6	453.2	462.7	463.3
162.5°	415.7	418.5	421.3	421.9	426.0	431.6	434.3	439.7	450.3	458.2	458.8
165°	423.1	425.5	428.0	428.7	430.6	433.1	434.3	438.2	445.7	451.4	452.1
167.5°	429.8	431.0	432.2	432.5	434.1	436.2	437.3	439.8	444.7	448.5	448.8
170°	434.3	435.5	436.7	437.0	437.1	437.2	437.3	439.8	444.7	448.5	448.5
172.5°	436.7	437.0	437.2	437.3	437.3	437.3	437.3	439.2	443.1	446.1	445.9
175°	440.0	440.0	440.0	440.0	439.1	437.9	437.3	438.5	441.0	442.8	442.8
177.5°	440.0	440.0	440.0	440.0	439.3	438.3	437.9	438.8	440.8	442.3	442.0
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2627.5	2620.2	2627.5	2622.6	2625.1	2617.8	2596.0	2588.7	2596.0	2603.2	2603.2
5°	2659.0	2654.1	2659.0	2659.0	2656.6	2651.7	2627.5	2622.6	2627.5	2630.0	2625.1
7.5°	2668.7	2661.5	2668.7	2663.9	2663.9	2659.0	2634.7	2630.0	2632.4	2639.6	2632.4
10°	2668.7	2661.5	2668.7	2666.3	2663.9	2659.0	2634.7	2625.1	2625.1	2632.4	2625.1
12.5°	2656.6	2651.7	2656.6	2651.7	2651.7	2646.9	2622.6	2613.0	2615.4	2617.8	2608.1
15°	2637.2	2630.0	2637.2	2632.4	2634.7	2627.5	2600.8	2591.1	2591.1	2596.0	2579.1
17.5°	2608.1	2598.5	2608.1	2605.7	2603.2	2598.5	2574.2	2564.5	2562.1	2564.5	2552.3
20°	2574.2	2566.9	2574.2	2571.7	2571.7	2562.1	2537.8	2525.7	2525.7	2525.7	2513.6
22.5°	2520.8	2513.6	2520.8	2525.7	2525.7	2523.3	2501.4	2484.5	2479.7	2479.7	2465.1
25°	2460.3	2453.0	2460.3	2460.3	2457.9	2460.3	2453.0	2443.3	2436.0	2428.8	2414.2
27.5°	2402.1	2397.2	2402.1	2397.2	2402.1	2394.9	2392.4	2390.0	2380.2	2373.0	2353.6
30°	2344.0	2339.1	2344.0	2339.1	2334.2	2329.3	2317.2	2312.4	2322.1	2317.2	2285.7
32.5°	2271.2	2266.3	2271.2	2271.2	2266.3	2266.3	2246.9	2239.7	2242.1	2256.7	2227.5
35°	2196.0	2188.8	2196.0	2193.6	2196.0	2188.8	2176.6	2174.2	2164.5	2181.5	2159.7
37.5°	2108.8	2101.5	2108.8	2108.8	2108.8	2113.6	2104.0	2096.7	2082.1	2104.0	2087.0
40°	2019.2	2009.4	2019.2	2016.7	2019.2	2023.9	2019.2	2014.3	1999.7	2016.7	2002.2
42.5°	1917.4	1914.9	1917.4	1919.7	1919.7	1929.4	1936.7	1927.0	1922.1	1910.0	1919.7
45°	1808.2	1803.4	1808.2	1813.1	1815.5	1820.3	1842.2	1842.2	1834.9	1815.5	1830.1
47.5°	1691.9	1679.7	1691.9	1706.4	1706.4	1713.7	1735.5	1752.5	1740.4	1716.1	1723.4
50°	1568.3	1570.7	1568.3	1577.9	1577.9	1604.6	1621.6	1638.6	1650.7	1621.6	1587.7
52.5°	1447.1	1444.6	1447.1	1454.4	1464.0	1476.1	1505.3	1522.2	1541.6	1524.7	1471.3
55°	1325.8	1330.7	1325.8	1328.3	1333.2	1340.4	1384.1	1401.0	1437.4	1415.6	1359.8
57.5°	1204.6	1197.4	1204.6	1209.5	1212.0	1219.2	1255.5	1287.1	1308.9	1311.3	1243.5
60°	1064.1	1054.4	1064.1	1085.9	1090.8	1095.6	1129.6	1158.6	1178.0	1185.3	1115.0
62.5°	940.5	923.5	940.5	955.0	964.7	976.9	1001.0	1044.7	1061.7	1064.1	964.7
65°	809.6	802.3	809.6	838.7	841.1	855.7	882.3	913.8	950.1	945.4	802.3
67.5°	690.8	690.8	690.8	710.2	724.7	732.0	765.9	780.5	826.6	831.4	669.0
70°	581.7	579.3	581.7	596.3	605.9	622.9	654.5	671.5	707.8	719.9	542.9
72.5°	477.5	475.1	477.5	489.6	499.4	513.9	540.5	559.9	591.4	605.9	421.7
75°	385.4	380.6	385.4	395.1	392.7	412.1	433.9	453.2	482.4	492.0	312.7
77.5°	295.8	295.8	295.8	305.4	305.4	324.8	334.5	358.7	375.7	390.2	230.3
80°	220.6	218.1	220.6	223.0	223.0	232.7	249.6	266.6	281.2	281.2	157.6
82.5°	155.1	150.3	155.1	155.1	155.1	160.0	169.7	174.5	184.2	191.5	99.4
85°	96.9	96.9	96.9	99.4	96.9	101.8	104.2	109.1	109.1	104.2	60.6
87.5°	63.0	60.6	63.0	60.6	60.6	58.2	58.2	58.2	55.8	53.3	33.9
90°	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.4	19.3	13.0	8.3
92.5°	44.9	36.0	44.9	53.9	56.1	79.5	110.7	126.3	111.0	80.1	57.0
95°	156.6	129.6	156.6	183.6	190.4	250.1	329.7	369.4	312.0	197.1	111.0
97.5°	375.3	323.9	375.3	426.7	439.6	477.3	527.6	552.8	457.1	265.6	122.0
100°	540.8	479.5	540.8	602.1	617.4	614.6	610.9	609.1	502.9	290.4	131.1
102.5°	703.5	651.0	703.5	756.1	769.2	721.1	657.0	625.0	517.3	301.9	140.3
105°	911.1	882.8	911.1	939.2	946.3	838.6	695.0	623.2	518.9	310.3	153.9
107.5°	1046.9	1053.7	1046.9	1040.1	1038.4	888.2	687.9	587.8	495.8	311.9	173.9
110°	1098.7	1128.1	1098.7	1069.4	1062.1	894.2	670.2	558.3	475.4	309.5	185.1

TEST NUMBER: P934603

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1103.4	1148.5	1103.4	1058.2	1047.0	875.2	646.1	531.5	457.5	309.6	198.7
115°	1074.1	1136.7	1074.1	1011.5	995.9	830.4	609.7	499.3	437.0	312.5	219.1
117.5°	1012.1	1081.5	1012.1	942.7	925.3	775.9	576.7	477.1	424.2	318.3	238.8
120°	962.1	1029.6	962.1	894.6	877.7	741.3	559.2	468.2	419.8	323.0	250.4
122.5°	913.5	979.9	913.5	846.9	830.3	707.4	543.4	461.5	417.5	329.8	264.0
125°	843.9	905.2	843.9	782.6	767.3	663.0	523.7	454.1	415.7	338.9	281.3
127.5°	781.5	833.2	781.5	729.7	716.8	627.1	507.7	447.9	414.7	348.1	298.2
130°	744.7	792.5	744.7	697.0	685.0	605.2	498.7	445.5	415.2	354.8	309.4
132.5°	711.3	754.1	711.3	668.5	657.8	586.4	491.2	443.5	415.7	360.2	318.6
135°	665.5	702.4	665.5	628.7	619.4	559.6	479.9	440.0	415.3	366.1	329.2
137.5°	628.9	659.0	628.9	598.6	591.0	540.4	473.0	439.3	417.8	374.9	342.7
140°	603.6	631.8	603.6	575.4	568.3	524.7	466.4	437.3	418.3	380.4	351.9
142.5°	582.7	607.0	582.7	558.5	552.4	514.0	462.9	437.3	419.8	384.9	358.7
145°	551.5	569.8	551.5	533.1	528.5	497.1	455.2	434.3	419.8	390.9	369.1
147.5°	527.4	542.6	527.4	512.3	508.4	483.7	450.8	434.3	422.7	399.5	382.1
150°	512.4	524.7	512.4	499.9	496.9	476.1	448.3	434.3	424.2	404.1	388.9
152.5°	499.4	508.7	499.4	490.0	487.7	470.0	446.2	434.3	425.2	406.9	393.3
155°	484.6	490.7	484.6	478.4	476.8	462.7	443.8	434.3	427.4	413.4	403.0
157.5°	472.8	477.1	472.8	468.4	467.4	456.4	441.7	434.3	429.6	419.9	412.8
160°	465.8	468.2	465.8	463.3	462.7	453.2	440.6	434.3	430.5	422.9	417.1
162.5°	461.2	463.6	461.2	458.8	458.2	450.3	439.7	434.3	431.6	426.0	421.9
165°	454.6	457.1	454.6	452.1	451.4	445.7	438.2	434.3	433.1	430.6	428.7
167.5°	449.8	450.9	449.8	448.8	448.5	444.7	439.8	437.3	436.2	434.1	432.5
170°	448.5	448.5	448.5	448.5	448.5	444.7	439.8	437.3	437.2	437.1	437.0
172.5°	444.9	444.1	444.9	445.9	446.1	443.1	439.2	437.3	437.3	437.3	437.3
175°	442.8	442.8	442.8	442.8	442.8	441.0	438.5	437.3	437.9	439.1	440.0
177.5°	441.0	440.0	441.0	442.0	442.3	440.8	438.8	437.9	438.3	439.3	440.0
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0

TEST NUMBER: P934603

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2598.5	2583.8	2583.8	2559.7	2549.9	2542.7	2530.6	2494.2	2484.5	2474.8	2489.3
5°	2620.2	2593.6	2574.2	2530.6	2494.2	2479.7	2433.6	2346.3	2288.2	2244.5	2220.3
7.5°	2625.1	2591.1	2554.8	2486.9	2399.6	2360.9	2220.3	2060.3	2016.7	1977.9	1953.6
10°	2620.2	2581.5	2530.6	2428.8	2222.8	2154.9	2014.3	1910.0	1883.4	1876.1	1883.4
12.5°	2603.2	2566.9	2496.7	2327.0	2038.5	1992.4	1910.0	1849.5	1844.6	1856.7	1922.1
15°	2574.2	2540.2	2457.9	2191.2	1936.7	1902.7	1844.6	1822.8	1849.5	1934.3	2130.6
17.5°	2545.1	2506.3	2404.5	2057.9	1859.1	1834.9	1793.7	1837.3	1987.6	2101.5	2167.0
20°	2506.3	2460.3	2344.0	1960.9	1803.4	1781.6	1762.2	1958.5	2072.4	2113.6	2150.0
22.5°	2460.3	2411.8	2261.5	1893.1	1745.2	1728.3	1740.4	2026.4	2072.4	2101.5	2133.0
25°	2399.6	2358.5	2164.5	1839.7	1699.1	1679.7	1725.8	2019.2	2045.8	2053.1	2116.1
27.5°	2344.0	2290.6	2062.7	1791.3	1643.4	1636.1	1737.9	1987.6	2007.0	2014.3	2082.1
30°	2276.1	2196.0	1948.8	1740.4	1585.2	1582.8	1740.4	1948.8	1944.0	1963.4	2031.2
32.5°	2205.8	2055.4	1820.3	1677.4	1529.5	1527.0	1723.4	1890.6	1885.8	1912.5	1963.4
35°	2140.3	1946.4	1645.8	1604.6	1459.1	1461.6	1682.2	1822.8	1825.2	1849.5	1881.0
37.5°	2072.4	1851.8	1454.4	1524.7	1391.3	1391.3	1626.5	1759.8	1754.9	1762.2	1805.8
40°	1992.4	1704.0	1284.7	1420.4	1328.3	1321.1	1558.6	1691.9	1674.9	1672.5	1733.1
42.5°	1907.6	1541.6	1158.6	1282.3	1255.5	1245.9	1476.1	1609.5	1577.9	1585.2	1662.8
45°	1815.5	1498.0	1061.7	1083.4	1180.5	1173.1	1386.5	1514.9	1493.1	1512.5	1592.5
47.5°	1723.4	1410.7	1030.2	899.2	1100.4	1098.1	1287.1	1422.9	1410.7	1430.1	1514.9
50°	1597.3	1313.8	1027.8	770.8	1010.8	1020.4	1168.3	1333.2	1333.2	1350.1	1439.8
52.5°	1435.0	1195.0	933.2	698.1	906.6	935.6	1064.1	1255.5	1260.4	1277.4	1357.3
55°	1287.1	1071.3	865.3	642.3	782.9	845.9	962.3	1175.6	1185.3	1202.2	1274.9
57.5°	1151.3	892.0	850.8	576.9	669.0	729.6	872.6	1098.1	1102.8	1117.4	1187.7
60°	1005.9	644.7	780.5	506.6	569.7	615.7	790.2	1005.9	1022.9	1032.5	1093.2
62.5°	841.1	467.9	707.8	458.1	521.1	530.8	722.4	918.6	940.5	947.7	984.1
65°	598.7	392.7	601.2	417.0	470.2	472.6	649.6	828.9	848.3	860.5	887.2
67.5°	404.8	319.9	458.1	378.1	431.5	433.9	579.3	724.7	751.4	761.1	778.0
70°	281.2	213.3	339.3	336.9	387.8	392.7	504.1	630.2	654.5	661.7	671.5
72.5°	206.0	172.1	281.2	303.0	341.8	346.7	426.6	523.5	547.8	555.0	559.9
75°	157.6	181.8	227.9	264.2	290.9	293.3	349.1	426.6	443.6	448.5	450.9
77.5°	126.1	169.7	167.2	213.3	237.5	232.7	273.9	329.7	344.2	344.2	344.2
80°	94.5	133.3	126.1	152.7	174.5	169.7	196.3	235.1	240.0	244.8	242.4
82.5°	70.3	84.8	84.8	96.9	116.3	111.5	130.9	152.7	152.7	152.7	157.6
85°	43.6	48.5	38.8	50.9	65.4	63.0	72.7	82.4	84.8	84.8	80.0
87.5°	26.6	21.8	12.1	19.4	29.1	29.1	33.9	36.4	33.9	33.9	33.9
90°	7.7	5.3	3.0	5.3	7.7	8.3	13.0	19.3	22.4	20.0	14.9
92.5°	52.0	31.9	11.8	31.9	52.0	57.0	80.1	111.0	126.3	110.7	79.5
95°	101.8	65.0	28.4	65.0	101.8	111.0	197.1	312.0	369.4	329.7	250.1
97.5°	113.8	81.5	49.0	81.5	113.8	122.0	265.6	457.1	552.8	527.6	477.3
100°	123.8	94.4	64.9	94.4	123.8	131.1	290.4	502.9	609.1	610.9	614.6
102.5°	133.4	106.0	78.5	106.0	133.4	140.3	301.9	517.3	625.0	657.0	721.1
105°	148.0	124.8	101.6	124.8	148.0	153.9	310.3	518.9	623.2	695.0	838.6
107.5°	168.5	146.9	125.2	146.9	168.5	173.9	311.9	495.8	587.8	687.9	888.2
110°	180.2	160.6	141.1	160.6	180.2	185.1	309.5	475.4	558.3	670.2	894.2

TEST NUMBER: P934603

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.1	175.4	156.8	175.4	194.1	198.7	309.6	457.5	531.5	646.1	875.2
115°	214.8	197.6	180.4	197.6	214.8	219.1	312.5	437.0	499.3	609.7	830.4
117.5°	234.9	219.4	203.7	219.4	234.9	238.8	318.3	424.2	477.1	576.7	775.9
120°	246.7	232.0	217.3	232.0	246.7	250.4	323.0	419.8	468.2	559.2	741.3
122.5°	260.2	245.4	230.6	245.4	260.2	264.0	329.8	417.5	461.5	543.4	707.4
125°	278.0	264.4	251.0	264.4	278.0	281.3	338.9	415.7	454.1	523.7	663.0
127.5°	294.8	281.2	267.5	281.2	294.8	298.2	348.1	414.7	447.9	507.7	627.1
130°	305.8	291.1	276.4	291.1	305.8	309.4	354.8	415.2	445.5	498.7	605.2
132.5°	315.0	300.3	285.5	300.3	315.0	318.6	360.2	415.7	443.5	491.2	586.4
135°	325.8	312.5	299.1	312.5	325.8	329.2	366.1	415.3	440.0	479.9	559.6
137.5°	339.4	326.2	313.0	326.2	339.4	342.7	374.9	417.8	439.3	473.0	540.4
140°	348.9	336.7	324.5	336.7	348.9	351.9	380.4	418.3	437.3	466.4	524.7
142.5°	355.8	344.6	333.3	344.6	355.8	358.7	384.9	419.8	437.3	462.9	514.0
145°	366.6	356.8	347.0	356.8	366.6	369.1	390.9	419.8	434.3	455.2	497.1
147.5°	379.7	370.1	360.5	370.1	379.7	382.1	399.5	422.7	434.3	450.8	483.7
150°	386.7	378.1	369.4	378.1	386.7	388.9	404.1	424.2	434.3	448.3	476.1
152.5°	391.6	385.1	378.5	385.1	391.6	393.3	406.9	425.2	434.3	446.2	470.0
155°	401.8	397.0	392.1	397.0	401.8	403.0	413.4	427.4	434.3	443.8	462.7
157.5°	411.6	406.8	402.2	406.8	411.6	412.8	419.9	429.6	434.3	441.7	456.4
160°	416.2	412.6	408.9	412.6	416.2	417.1	422.9	430.5	434.3	440.6	453.2
162.5°	421.3	418.5	415.7	418.5	421.3	421.9	426.0	431.6	434.3	439.7	450.3
165°	428.0	425.5	423.1	425.5	428.0	428.7	430.6	433.1	434.3	438.2	445.7
167.5°	432.2	431.0	429.8	431.0	432.2	432.5	434.1	436.2	437.3	439.8	444.7
170°	436.7	435.5	434.3	435.5	436.7	437.0	437.1	437.2	437.3	439.8	444.7
172.5°	437.2	437.0	436.7	437.0	437.2	437.3	437.3	437.3	437.3	439.2	443.1
175°	440.0	440.0	440.0	440.0	440.0	440.0	439.1	437.9	437.3	438.5	441.0
177.5°	440.0	440.0	440.0	440.0	440.0	440.0	439.3	438.3	437.9	438.8	440.8
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0

TEST NUMBER: P934603

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2472.4	2465.1	2474.8	2448.1	2474.8	2465.1	2472.4	2489.3	2474.8	2484.5	2494.2
5°	2169.4	2157.2	2118.5	2087.0	2118.5	2157.2	2169.4	2220.3	2244.5	2288.2	2346.3
7.5°	1939.1	1929.4	1919.7	1900.4	1919.7	1929.4	1939.1	1953.6	1977.9	2016.7	2060.3
10°	1888.2	1890.6	1905.2	1902.7	1905.2	1890.6	1888.2	1883.4	1876.1	1883.4	1910.0
12.5°	2019.2	2040.9	2121.0	2116.1	2121.0	2040.9	2019.2	1922.1	1856.7	1844.6	1849.5
15°	2169.4	2176.6	2193.6	2196.0	2193.6	2176.6	2169.4	2130.6	1934.3	1849.5	1822.8
17.5°	2183.9	2186.4	2198.5	2198.5	2198.5	2186.4	2183.9	2167.0	2101.5	1987.6	1837.3
20°	2171.9	2176.6	2200.9	2205.8	2200.9	2176.6	2171.9	2150.0	2113.6	2072.4	1958.5
22.5°	2167.0	2176.6	2196.0	2193.6	2196.0	2176.6	2167.0	2133.0	2101.5	2072.4	2026.4
25°	2142.7	2142.7	2145.1	2147.6	2145.1	2142.7	2142.7	2116.1	2053.1	2045.8	2019.2
27.5°	2091.8	2096.7	2111.2	2108.8	2111.2	2096.7	2091.8	2082.1	2014.3	2007.0	1987.6
30°	2045.8	2040.9	2028.8	2019.2	2028.8	2040.9	2045.8	2031.2	1963.4	1944.0	1948.8
32.5°	1968.3	1956.1	1944.0	1936.7	1944.0	1956.1	1968.3	1963.4	1912.5	1885.8	1890.6
35°	1876.1	1878.5	1876.1	1868.8	1876.1	1878.5	1876.1	1881.0	1849.5	1825.2	1822.8
37.5°	1810.7	1815.5	1813.1	1803.4	1813.1	1815.5	1810.7	1805.8	1762.2	1754.9	1759.8
40°	1742.8	1745.2	1742.8	1735.5	1742.8	1745.2	1742.8	1733.1	1672.5	1674.9	1691.9
42.5°	1677.4	1674.9	1667.6	1662.8	1667.6	1674.9	1677.4	1662.8	1585.2	1577.9	1609.5
45°	1602.2	1604.6	1590.1	1582.8	1590.1	1604.6	1602.2	1592.5	1512.5	1493.1	1514.9
47.5°	1527.0	1527.0	1514.9	1507.7	1514.9	1527.0	1527.0	1514.9	1430.1	1410.7	1422.9
50°	1447.1	1444.6	1427.7	1425.2	1427.7	1444.6	1447.1	1439.8	1350.1	1333.2	1333.2
52.5°	1355.0	1355.0	1357.3	1362.2	1357.3	1355.0	1355.0	1357.3	1277.4	1260.4	1255.5
55°	1274.9	1277.4	1294.4	1299.2	1294.4	1277.4	1274.9	1274.9	1202.2	1185.3	1175.6
57.5°	1192.6	1192.6	1204.6	1204.6	1204.6	1192.6	1192.6	1187.7	1117.4	1102.8	1098.1
60°	1098.1	1102.8	1112.6	1110.2	1112.6	1102.8	1098.1	1093.2	1032.5	1022.9	1005.9
62.5°	998.6	1003.5	1005.9	1001.0	1005.9	1003.5	998.6	984.1	947.7	940.5	918.6
65°	894.5	899.2	901.7	896.8	901.7	899.2	894.5	887.2	860.5	848.3	828.9
67.5°	787.8	785.3	782.9	792.6	782.9	785.3	787.8	778.0	761.1	751.4	724.7
70°	678.7	678.7	676.2	681.1	676.2	678.7	678.7	671.5	661.7	654.5	630.2
72.5°	562.3	559.9	569.7	562.3	569.7	559.9	562.3	559.9	555.0	547.8	523.5
75°	448.5	453.2	448.5	455.7	448.5	453.2	448.5	450.9	448.5	443.6	426.6
77.5°	341.8	346.7	341.8	341.8	341.8	346.7	341.8	344.2	344.2	344.2	329.7
80°	242.4	240.0	240.0	237.5	240.0	240.0	242.4	242.4	244.8	240.0	235.1
82.5°	155.1	152.7	152.7	157.6	152.7	152.7	155.1	157.6	152.7	152.7	152.7
85°	84.8	87.3	82.4	82.4	82.4	87.3	84.8	80.0	84.8	84.8	82.4
87.5°	31.5	29.1	29.1	29.1	29.1	29.1	31.5	33.9	33.9	33.9	36.4
90°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.4	19.3
92.5°	56.1	53.9	44.9	36.0	44.9	53.9	56.1	79.5	110.7	126.3	111.0
95°	190.4	183.6	156.6	129.6	156.6	183.6	190.4	250.1	329.7	369.4	312.0
97.5°	439.6	426.7	375.3	323.9	375.3	426.7	439.6	477.3	527.6	552.8	457.1
100°	617.4	602.1	540.8	479.5	540.8	602.1	617.4	614.6	610.9	609.1	502.9
102.5°	769.2	756.1	703.5	651.0	703.5	756.1	769.2	721.1	657.0	625.0	517.3
105°	946.3	939.2	911.1	882.8	911.1	939.2	946.3	838.6	695.0	623.2	518.9
107.5°	1038.4	1040.1	1046.9	1053.7	1046.9	1040.1	1038.4	888.2	687.9	587.8	495.8
110°	1062.1	1069.4	1098.7	1128.1	1098.7	1069.4	1062.1	894.2	670.2	558.3	475.4

TEST NUMBER: P934603

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1047.0	1058.2	1103.4	1148.5	1103.4	1058.2	1047.0	875.2	646.1	531.5	457.5
115°	995.9	1011.5	1074.1	1136.7	1074.1	1011.5	995.9	830.4	609.7	499.3	437.0
117.5°	925.3	942.7	1012.1	1081.5	1012.1	942.7	925.3	775.9	576.7	477.1	424.2
120°	877.7	894.6	962.1	1029.6	962.1	894.6	877.7	741.3	559.2	468.2	419.8
122.5°	830.3	846.9	913.5	979.9	913.5	846.9	830.3	707.4	543.4	461.5	417.5
125°	767.3	782.6	843.9	905.2	843.9	782.6	767.3	663.0	523.7	454.1	415.7
127.5°	716.8	729.7	781.5	833.2	781.5	729.7	716.8	627.1	507.7	447.9	414.7
130°	685.0	697.0	744.7	792.5	744.7	697.0	685.0	605.2	498.7	445.5	415.2
132.5°	657.8	668.5	711.3	754.1	711.3	668.5	657.8	586.4	491.2	443.5	415.7
135°	619.4	628.7	665.5	702.4	665.5	628.7	619.4	559.6	479.9	440.0	415.3
137.5°	591.0	598.6	628.9	659.0	628.9	598.6	591.0	540.4	473.0	439.3	417.8
140°	568.3	575.4	603.6	631.8	603.6	575.4	568.3	524.7	466.4	437.3	418.3
142.5°	552.4	558.5	582.7	607.0	582.7	558.5	552.4	514.0	462.9	437.3	419.8
145°	528.5	533.1	551.5	569.8	551.5	533.1	528.5	497.1	455.2	434.3	419.8
147.5°	508.4	512.3	527.4	542.6	527.4	512.3	508.4	483.7	450.8	434.3	422.7
150°	496.9	499.9	512.4	524.7	512.4	499.9	496.9	476.1	448.3	434.3	424.2
152.5°	487.7	490.0	499.4	508.7	499.4	490.0	487.7	470.0	446.2	434.3	425.2
155°	476.8	478.4	484.6	490.7	484.6	478.4	476.8	462.7	443.8	434.3	427.4
157.5°	467.4	468.4	472.8	477.1	472.8	468.4	467.4	456.4	441.7	434.3	429.6
160°	462.7	463.3	465.8	468.2	465.8	463.3	462.7	453.2	440.6	434.3	430.5
162.5°	458.2	458.8	461.2	463.6	461.2	458.8	458.2	450.3	439.7	434.3	431.6
165°	451.4	452.1	454.6	457.1	454.6	452.1	451.4	445.7	438.2	434.3	433.1
167.5°	448.5	448.8	449.8	450.9	449.8	448.8	448.5	444.7	439.8	437.3	436.2
170°	448.5	448.5	448.5	448.5	448.5	448.5	448.5	444.7	439.8	437.3	437.2
172.5°	446.1	445.9	444.9	444.1	444.9	445.9	446.1	443.1	439.2	437.3	437.3
175°	442.8	442.8	442.8	442.8	442.8	442.8	442.8	441.0	438.5	437.3	437.9
177.5°	442.3	442.0	441.0	440.0	441.0	442.0	442.3	440.8	438.8	437.9	438.3
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0

TEST NUMBER: P934603

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2530.6	2542.7	2549.9	2559.7	2583.8
5°	2433.6	2479.7	2494.2	2530.6	2574.2
7.5°	2220.3	2360.9	2399.6	2486.9	2554.8
10°	2014.3	2154.9	2222.8	2428.8	2530.6
12.5°	1910.0	1992.4	2038.5	2327.0	2496.7
15°	1844.6	1902.7	1936.7	2191.2	2457.9
17.5°	1793.7	1834.9	1859.1	2057.9	2404.5
20°	1762.2	1781.6	1803.4	1960.9	2344.0
22.5°	1740.4	1728.3	1745.2	1893.1	2261.5
25°	1725.8	1679.7	1699.1	1839.7	2164.5
27.5°	1737.9	1636.1	1643.4	1791.3	2062.7
30°	1740.4	1582.8	1585.2	1740.4	1948.8
32.5°	1723.4	1527.0	1529.5	1677.4	1820.3
35°	1682.2	1461.6	1459.1	1604.6	1645.8
37.5°	1626.5	1391.3	1391.3	1524.7	1454.4
40°	1558.6	1321.1	1328.3	1420.4	1284.7
42.5°	1476.1	1245.9	1255.5	1282.3	1158.6
45°	1386.5	1173.1	1180.5	1083.4	1061.7
47.5°	1287.1	1098.1	1100.4	899.2	1030.2
50°	1168.3	1020.4	1010.8	770.8	1027.8
52.5°	1064.1	935.6	906.6	698.1	933.2
55°	962.3	845.9	782.9	642.3	865.3
57.5°	872.6	729.6	669.0	576.9	850.8
60°	790.2	615.7	569.7	506.6	780.5
62.5°	722.4	530.8	521.1	458.1	707.8
65°	649.6	472.6	470.2	417.0	601.2
67.5°	579.3	433.9	431.5	378.1	458.1
70°	504.1	392.7	387.8	336.9	339.3
72.5°	426.6	346.7	341.8	303.0	281.2
75°	349.1	293.3	290.9	264.2	227.9
77.5°	273.9	232.7	237.5	213.3	167.2
80°	196.3	169.7	174.5	152.7	126.1
82.5°	130.9	111.5	116.3	96.9	84.8
85°	72.7	63.0	65.4	50.9	38.8
87.5°	33.9	29.1	29.1	19.4	12.1
90°	13.0	8.3	7.7	5.3	3.0
92.5°	80.1	57.0	52.0	31.9	11.8
95°	197.1	111.0	101.8	65.0	28.4
97.5°	265.6	122.0	113.8	81.5	49.0
100°	290.4	131.1	123.8	94.4	64.9
102.5°	301.9	140.3	133.4	106.0	78.5
105°	310.3	153.9	148.0	124.8	101.6
107.5°	311.9	173.9	168.5	146.9	125.2
110°	309.5	185.1	180.2	160.6	141.1

TEST NUMBER: P934603

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	309.6	198.7	194.1	175.4	156.8
115°	312.5	219.1	214.8	197.6	180.4
117.5°	318.3	238.8	234.9	219.4	203.7
120°	323.0	250.4	246.7	232.0	217.3
122.5°	329.8	264.0	260.2	245.4	230.6
125°	338.9	281.3	278.0	264.4	251.0
127.5°	348.1	298.2	294.8	281.2	267.5
130°	354.8	309.4	305.8	291.1	276.4
132.5°	360.2	318.6	315.0	300.3	285.5
135°	366.1	329.2	325.8	312.5	299.1
137.5°	374.9	342.7	339.4	326.2	313.0
140°	380.4	351.9	348.9	336.7	324.5
142.5°	384.9	358.7	355.8	344.6	333.3
145°	390.9	369.1	366.6	356.8	347.0
147.5°	399.5	382.1	379.7	370.1	360.5
150°	404.1	388.9	386.7	378.1	369.4
152.5°	406.9	393.3	391.6	385.1	378.5
155°	413.4	403.0	401.8	397.0	392.1
157.5°	419.9	412.8	411.6	406.8	402.2
160°	422.9	417.1	416.2	412.6	408.9
162.5°	426.0	421.9	421.3	418.5	415.7
165°	430.6	428.7	428.0	425.5	423.1
167.5°	434.1	432.5	432.2	431.0	429.8
170°	437.1	437.0	436.7	435.5	434.3
172.5°	437.3	437.3	437.2	437.0	436.7
175°	439.1	440.0	440.0	440.0	440.0
177.5°	439.3	440.0	440.0	440.0	440.0
180°	440.0	440.0	440.0	440.0	440.0

(END OF REPORT)