

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: P934599

Luminaire Tested: SQ4-FA-050U-125D-B35-1D-UNV-W2A-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934599
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-B35-1D-UNV-W2A-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

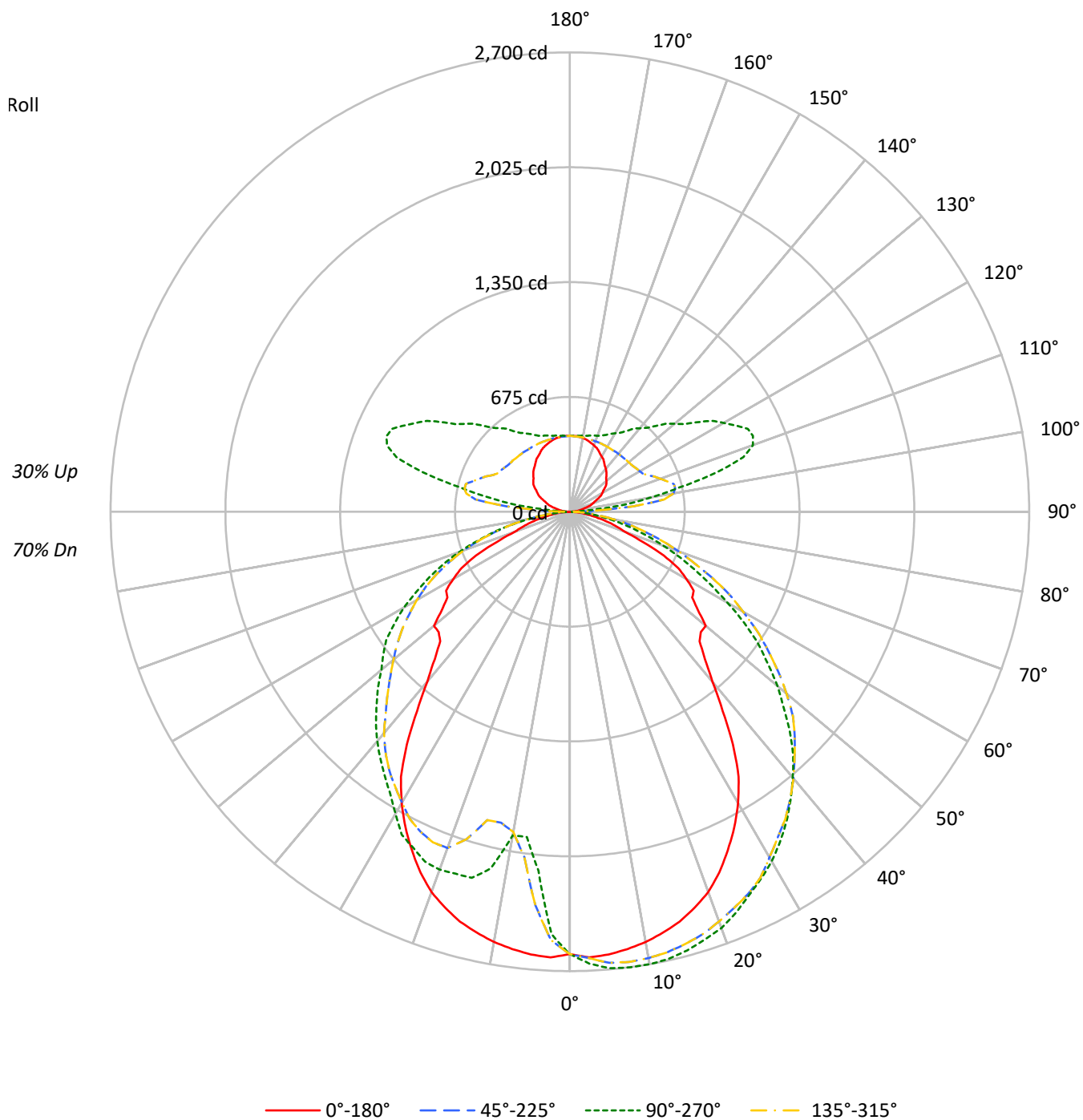
Lumens per Lamp: N/A
Luminaire Lumens: 9635.7 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

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°	16082	16082	16082	16082
5°	16196	16233	16196	12765
10°	16082	15991	16082	11432
15°	15901	15645	15901	13063
20°	15562	15234	15562	13091
25°	14875	14636	14875	12813
30°	13990	14139	13990	12205
35°	12466	13510	12466	11535
40°	10381	12770	10381	11030
45°	9269	11904	9269	10448
50°	9840	10870	9840	9864
55°	9249	9757	9249	9526
60°	9524	8287	9524	8726
65°	8621	6851	8621	7658
70°	5955	5459	5955	6419
75°	5202	4035	5202	4833
80°	4163	2667	4163	2905
85°	2343	1413	2343	1201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 14216 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	2.4
10°-20°	666.3	6.9
20°-30°	1029.9	10.7
30°-40°	1229.5	12.8
40°-50°	1236.7	12.8
50°-60°	1076.1	11.2
60°-70°	763.0	7.9
70°-80°	403.7	4.2
80°-90°	102.2	1.1
90°-100°	217.6	2.3
100°-110°	572.0	5.9
110°-120°	593.1	6.2
120°-130°	475.8	4.9
130°-140°	373.3	3.9
140°-150°	286.5	3.0
150°-160°	206.4	2.1
160°-170°	126.3	1.3
170°-180°	42.7	0.4
0°-30°	1930.9	20.0
0°-40°	3160.4	32.8
0°-60°	5473.2	56.8
0°-90°	6742.1	70.0
90°-120°	1382.8	14.4
90°-150°	2518.4	26.1
90°-180°	2894.0	30.0
0°-180°	9635.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2600	2600	2600	2600	2600	
5°	2612	2693	2612	2118	2612	248
15°	2494	2668	2494	2228	2494	702
25°	2196	2489	2196	2179	2196	1008
35°	1670	2221	1670	1896	1670	1033
45°	1077	1830	1077	1606	1077	863
55°	878	1350	878	1318	878	807
65°	610	814	610	910	610	583
75°	231	386	231	462	231	243
85°	39	98	39	84	39	53
90°	3	11	3	11	3	4
95°	29	132	29	132	29	32
105°	103	896	103	896	103	109
115°	183	1153	183	1153	183	181
125°	255	918	255	918	255	226
135°	304	713	304	713	304	235
145°	352	578	352	578	352	221
155°	398	498	398	498	398	183
165°	429	464	429	464	429	121
175°	446	449	446	449	446	42
180°	446	446	446	446	446	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	2621.7	2621.7	2636.6	2641.4	2641.4	2634.0	2626.7	2634.0	2656.2	2663.6	2661.1
5°	2611.9	2631.6	2658.6	2663.6	2668.5	2666.0	2661.1	2666.0	2690.6	2695.6	2698.0
7.5°	2592.3	2629.1	2663.6	2671.0	2678.3	2671.0	2668.5	2673.4	2698.0	2702.9	2702.9
10°	2567.7	2619.3	2658.6	2663.6	2671.0	2663.6	2663.6	2673.4	2698.0	2702.9	2705.4
12.5°	2533.3	2604.6	2641.4	2646.3	2656.2	2653.7	2651.3	2661.1	2685.7	2690.6	2690.6
15°	2493.9	2577.4	2611.9	2616.9	2634.0	2629.1	2629.1	2639.0	2666.0	2673.4	2671.0
17.5°	2439.7	2543.0	2582.4	2589.7	2602.1	2599.6	2602.1	2611.9	2636.6	2641.4	2643.9
20°	2378.3	2496.3	2543.0	2550.4	2562.7	2562.7	2562.7	2575.0	2599.6	2609.4	2609.4
22.5°	2294.7	2447.1	2496.3	2501.3	2516.0	2516.0	2521.0	2538.1	2560.3	2562.7	2562.7
25°	2196.2	2393.0	2434.8	2449.6	2464.4	2471.7	2479.1	2489.0	2496.3	2493.9	2496.3
27.5°	2092.9	2324.1	2378.3	2388.1	2407.8	2415.1	2425.0	2427.4	2430.0	2437.3	2432.4
30°	1977.3	2228.2	2309.4	2319.2	2351.2	2356.1	2346.3	2351.2	2363.5	2368.4	2373.4
32.5°	1847.0	2085.6	2238.1	2260.2	2289.7	2275.0	2272.5	2279.9	2299.5	2299.5	2304.5
35°	1670.0	1974.9	2171.7	2191.4	2213.5	2196.2	2206.1	2208.5	2220.9	2228.2	2225.8
37.5°	1475.7	1879.0	2102.8	2117.6	2134.8	2112.6	2127.4	2134.8	2144.6	2139.7	2139.7
40°	1303.5	1729.0	2021.6	2031.5	2046.2	2029.0	2043.8	2048.8	2053.6	2048.8	2046.2
42.5°	1175.6	1564.2	1935.6	1947.9	1938.0	1950.3	1955.2	1965.1	1957.7	1947.9	1947.9
45°	1077.2	1520.0	1842.1	1856.9	1842.1	1861.8	1869.2	1869.2	1847.0	1842.1	1839.6
47.5°	1045.3	1431.4	1748.7	1748.7	1741.3	1765.9	1778.2	1761.0	1738.8	1731.4	1731.4
50°	1042.8	1333.1	1620.7	1611.0	1645.4	1674.9	1662.6	1645.4	1628.1	1601.1	1601.1
52.5°	946.9	1212.5	1456.0	1492.8	1547.0	1564.2	1544.5	1527.3	1497.8	1485.5	1475.7
55°	878.0	1087.0	1305.9	1379.8	1436.3	1458.4	1421.5	1404.4	1360.1	1352.7	1347.8
57.5°	863.3	905.0	1168.2	1261.7	1330.5	1328.1	1305.9	1273.9	1237.1	1229.8	1227.2
60°	792.0	654.2	1020.6	1131.3	1202.6	1195.3	1175.6	1146.1	1111.6	1106.8	1101.8
62.5°	718.1	474.7	853.4	978.9	1079.7	1077.2	1060.0	1015.7	991.2	978.9	969.0
65°	610.0	398.5	607.5	814.1	959.2	964.1	927.2	895.3	868.2	853.4	851.0
67.5°	464.8	324.6	410.8	678.8	843.6	838.7	792.0	777.1	742.7	735.4	720.6
70°	344.3	216.5	285.3	550.9	730.4	718.1	681.3	664.1	632.1	614.8	605.0
72.5°	285.3	174.6	209.0	427.9	614.8	600.1	568.1	548.5	521.4	506.7	496.8
75°	231.2	184.5	159.9	317.3	499.2	489.4	459.9	440.2	418.1	398.5	400.9
77.5°	169.7	172.2	127.9	233.6	395.9	381.2	364.0	339.4	329.6	309.9	309.9
80°	127.9	135.3	95.9	159.9	285.3	285.3	270.5	253.3	236.1	226.3	226.3
82.5°	86.0	86.0	71.3	100.9	194.3	186.9	177.0	172.2	162.3	157.4	157.4
85°	39.3	49.2	44.3	61.5	105.7	110.7	110.7	105.7	103.3	98.4	100.9
87.5°	12.3	22.1	27.0	34.4	54.1	56.6	59.0	59.0	59.0	61.5	61.5
90°	3.0	5.4	7.8	8.4	13.2	19.6	22.8	20.3	15.1	11.3	11.3
92.5°	12.0	32.4	52.7	57.8	81.3	112.6	128.2	112.3	80.6	56.9	54.7
95°	28.8	66.0	103.3	112.6	200.0	316.6	374.8	334.5	253.8	193.2	186.3
97.5°	49.7	82.7	115.5	123.7	269.5	463.8	560.9	535.4	484.3	446.0	432.9
100°	65.9	95.7	125.6	133.0	294.7	510.3	618.0	619.9	623.6	626.5	611.0
102.5°	79.7	107.6	135.4	142.3	306.3	524.9	634.2	666.7	731.7	780.4	767.2
105°	103.1	126.6	150.2	156.1	314.8	526.6	632.4	705.2	850.9	960.2	953.0
107.5°	127.0	149.0	170.9	176.5	316.5	503.1	596.4	698.0	901.2	1053.6	1055.3
110°	143.2	163.0	182.9	187.8	314.1	482.4	566.5	680.0	907.3	1077.6	1085.1

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.1	178.0	196.9	201.6	314.1	464.2	539.2	655.5	888.0	1062.3	1073.7
115°	183.0	200.5	217.9	222.3	317.1	443.4	506.6	618.6	842.5	1010.5	1026.4
117.5°	206.7	222.6	238.4	242.3	323.0	430.4	484.1	585.2	787.3	938.9	956.5
120°	220.4	235.4	250.3	254.1	327.7	426.0	475.1	567.4	752.1	890.6	907.8
122.5°	234.0	249.0	264.1	267.8	334.6	423.6	468.2	551.4	717.7	842.4	859.3
125°	254.7	268.3	282.1	285.5	343.9	421.8	460.8	531.4	672.7	778.6	794.1
127.5°	271.4	285.3	299.1	302.6	353.2	420.7	454.5	515.1	636.3	727.3	740.4
130°	280.4	295.4	310.3	314.0	360.0	421.3	452.0	506.0	614.1	695.1	707.2
132.5°	289.7	304.7	319.6	323.3	365.5	421.8	450.0	498.4	595.0	667.4	678.3
135°	303.5	317.1	330.6	334.0	371.5	421.4	446.4	486.9	567.8	628.5	637.9
137.5°	317.5	331.0	344.4	347.8	380.4	423.9	445.7	479.9	548.4	599.7	607.4
140°	329.3	341.7	354.0	357.1	386.0	424.4	443.7	473.3	532.4	576.7	583.8
142.5°	338.2	349.6	361.0	364.0	390.5	426.0	443.7	469.7	521.5	560.5	566.7
145°	352.0	362.0	372.0	374.5	396.6	426.0	440.7	461.9	504.4	536.2	540.9
147.5°	365.8	375.5	385.3	387.7	405.3	428.9	440.7	457.4	490.8	515.9	519.8
150°	374.8	383.6	392.3	394.6	410.0	430.4	440.7	454.8	483.0	504.2	507.3
152.5°	384.0	390.7	397.4	399.0	412.9	431.4	440.7	452.7	476.8	494.9	497.2
155°	397.9	402.8	407.7	408.9	419.5	433.6	440.7	450.3	469.5	483.8	485.4
157.5°	408.0	412.8	417.6	418.8	426.1	435.9	440.7	448.2	463.1	474.2	475.3
160°	414.9	418.6	422.3	423.3	429.1	436.8	440.7	447.1	459.9	469.5	470.1
162.5°	421.8	424.6	427.4	428.1	432.3	437.9	440.7	446.1	456.9	464.9	465.5
165°	429.3	431.8	434.3	435.0	436.9	439.4	440.7	444.6	452.2	458.0	458.7
167.5°	436.1	437.3	438.6	438.9	440.5	442.6	443.7	446.2	451.3	455.0	455.3
170°	440.7	441.9	443.1	443.4	443.5	443.6	443.7	446.2	451.3	455.0	455.0
172.5°	443.1	443.4	443.6	443.7	443.7	443.7	443.7	445.6	449.6	452.6	452.4
175°	446.4	446.4	446.4	446.4	445.5	444.3	443.7	445.0	447.5	449.3	449.3
177.5°	446.4	446.4	446.4	446.4	445.7	444.8	444.3	445.3	447.3	448.7	448.5
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	2666.0	2658.6	2666.0	2661.1	2663.6	2656.2	2634.0	2626.7	2634.0	2641.4	2641.4
5°	2698.0	2693.0	2698.0	2698.0	2695.6	2690.6	2666.0	2661.1	2666.0	2668.5	2663.6
7.5°	2707.9	2700.5	2707.9	2702.9	2702.9	2698.0	2673.4	2668.5	2671.0	2678.3	2671.0
10°	2707.9	2700.5	2707.9	2705.4	2702.9	2698.0	2673.4	2663.6	2663.6	2671.0	2663.6
12.5°	2695.6	2690.6	2695.6	2690.6	2690.6	2685.7	2661.1	2651.3	2653.7	2656.2	2646.3
15°	2675.9	2668.5	2675.9	2671.0	2673.4	2666.0	2639.0	2629.1	2629.1	2634.0	2616.9
17.5°	2646.3	2636.6	2646.3	2643.9	2641.4	2636.6	2611.9	2602.1	2599.6	2602.1	2589.7
20°	2611.9	2604.6	2611.9	2609.4	2609.4	2599.6	2575.0	2562.7	2562.7	2562.7	2550.4
22.5°	2557.8	2550.4	2557.8	2562.7	2562.7	2560.3	2538.1	2521.0	2516.0	2516.0	2501.3
25°	2496.3	2489.0	2496.3	2496.3	2493.9	2496.3	2489.0	2479.1	2471.7	2464.4	2449.6
27.5°	2437.3	2432.4	2437.3	2432.4	2437.3	2430.0	2427.4	2425.0	2415.1	2407.8	2388.1
30°	2378.3	2373.4	2378.3	2373.4	2368.4	2363.5	2351.2	2346.3	2356.1	2351.2	2319.2
32.5°	2304.5	2299.5	2304.5	2304.5	2299.5	2299.5	2279.9	2272.5	2275.0	2289.7	2260.2
35°	2228.2	2220.9	2228.2	2225.8	2228.2	2220.9	2208.5	2206.1	2196.2	2213.5	2191.4
37.5°	2139.7	2132.3	2139.7	2139.7	2139.7	2144.6	2134.8	2127.4	2112.6	2134.8	2117.6
40°	2048.8	2038.9	2048.8	2046.2	2048.8	2053.6	2048.8	2043.8	2029.0	2046.2	2031.5
42.5°	1945.5	1942.9	1945.5	1947.9	1947.9	1957.7	1965.1	1955.2	1950.3	1938.0	1947.9
45°	1834.7	1829.9	1834.7	1839.6	1842.1	1847.0	1869.2	1869.2	1861.8	1842.1	1856.9
47.5°	1716.7	1704.4	1716.7	1731.4	1731.4	1738.8	1761.0	1778.2	1765.9	1741.3	1748.7
50°	1591.3	1593.7	1591.3	1601.1	1601.1	1628.1	1645.4	1662.6	1674.9	1645.4	1611.0
52.5°	1468.3	1465.8	1468.3	1475.7	1485.5	1497.8	1527.3	1544.5	1564.2	1547.0	1492.8
55°	1345.3	1350.2	1345.3	1347.8	1352.7	1360.1	1404.4	1421.5	1458.4	1436.3	1379.8
57.5°	1222.3	1214.9	1222.3	1227.2	1229.8	1237.1	1273.9	1305.9	1328.1	1330.5	1261.7
60°	1079.7	1069.9	1079.7	1101.8	1106.8	1111.6	1146.1	1175.6	1195.3	1202.6	1131.3
62.5°	954.3	937.0	954.3	969.0	978.9	991.2	1015.7	1060.0	1077.2	1079.7	978.9
65°	821.4	814.1	821.4	851.0	853.4	868.2	895.3	927.2	964.1	959.2	814.1
67.5°	701.0	701.0	701.0	720.6	735.4	742.7	777.1	792.0	838.7	843.6	678.8
70°	590.2	587.8	590.2	605.0	614.8	632.1	664.1	681.3	718.1	730.4	550.9
72.5°	484.5	482.1	484.5	496.8	506.7	521.4	548.5	568.1	600.1	614.8	427.9
75°	391.1	386.1	391.1	400.9	398.5	418.1	440.2	459.9	489.4	499.2	317.3
77.5°	300.1	300.1	300.1	309.9	309.9	329.6	339.4	364.0	381.2	395.9	233.6
80°	223.8	221.3	223.8	226.3	226.3	236.1	253.3	270.5	285.3	285.3	159.9
82.5°	157.4	152.5	157.4	157.4	157.4	162.3	172.2	177.0	186.9	194.3	100.9
85°	98.4	98.4	98.4	100.9	98.4	103.3	105.7	110.7	110.7	105.7	61.5
87.5°	64.0	61.5	64.0	61.5	61.5	59.0	59.0	59.0	56.6	54.1	34.4
90°	11.3	11.3	11.3	11.3	11.3	15.1	20.3	22.8	19.6	13.2	8.4
92.5°	45.5	36.5	45.5	54.7	56.9	80.6	112.3	128.2	112.6	81.3	57.8
95°	158.9	131.5	158.9	186.3	193.2	253.8	334.5	374.8	316.6	200.0	112.6
97.5°	380.8	328.7	380.8	432.9	446.0	484.3	535.4	560.9	463.8	269.5	123.7
100°	548.7	486.5	548.7	611.0	626.5	623.6	619.9	618.0	510.3	294.7	133.0
102.5°	713.9	660.6	713.9	767.2	780.4	731.7	666.7	634.2	524.9	306.3	142.3
105°	924.4	895.7	924.4	953.0	960.2	850.9	705.2	632.4	526.6	314.8	156.1
107.5°	1062.2	1069.2	1062.2	1055.3	1053.6	901.2	698.0	596.4	503.1	316.5	176.5
110°	1114.8	1144.7	1114.8	1085.1	1077.6	907.3	680.0	566.5	482.4	314.1	187.8

TEST NUMBER: P934599

CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1119.6	1165.3	1119.6	1073.7	1062.3	888.0	655.5	539.2	464.2	314.1	201.6
115°	1089.8	1153.4	1089.8	1026.4	1010.5	842.5	618.6	506.6	443.4	317.1	222.3
117.5°	1026.9	1097.4	1026.9	956.5	938.9	787.3	585.2	484.1	430.4	323.0	242.3
120°	976.2	1044.7	976.2	907.8	890.6	752.1	567.4	475.1	426.0	327.7	254.1
122.5°	926.8	994.3	926.8	859.3	842.4	717.7	551.4	468.2	423.6	334.6	267.8
125°	856.3	918.5	856.3	794.1	778.6	672.7	531.4	460.8	421.8	343.9	285.5
127.5°	792.9	845.5	792.9	740.4	727.3	636.3	515.1	454.5	420.7	353.2	302.6
130°	755.6	804.1	755.6	707.2	695.1	614.1	506.0	452.0	421.3	360.0	314.0
132.5°	721.7	765.1	721.7	678.3	667.4	595.0	498.4	450.0	421.8	365.5	323.3
135°	675.3	712.7	675.3	637.9	628.5	567.8	486.9	446.4	421.4	371.5	334.0
137.5°	638.1	668.7	638.1	607.4	599.7	548.4	479.9	445.7	423.9	380.4	347.8
140°	612.4	641.1	612.4	583.8	576.7	532.4	473.3	443.7	424.4	386.0	357.1
142.5°	591.3	615.9	591.3	566.7	560.5	521.5	469.7	443.7	426.0	390.5	364.0
145°	559.6	578.2	559.6	540.9	536.2	504.4	461.9	440.7	426.0	396.6	374.5
147.5°	535.2	550.6	535.2	519.8	515.9	490.8	457.4	440.7	428.9	405.3	387.7
150°	519.9	532.4	519.9	507.3	504.2	483.0	454.8	440.7	430.4	410.0	394.6
152.5°	506.7	516.2	506.7	497.2	494.9	476.8	452.7	440.7	431.4	412.9	399.0
155°	491.7	497.9	491.7	485.4	483.8	469.5	450.3	440.7	433.6	419.5	408.9
157.5°	479.8	484.1	479.8	475.3	474.2	463.1	448.2	440.7	435.9	426.1	418.8
160°	472.6	475.1	472.6	470.1	469.5	459.9	447.1	440.7	436.8	429.1	423.3
162.5°	467.9	470.4	467.9	465.5	464.9	456.9	446.1	440.7	437.9	432.3	428.1
165°	461.2	463.8	461.2	458.7	458.0	452.2	444.6	440.7	439.4	436.9	435.0
167.5°	456.4	457.5	456.4	455.3	455.0	451.3	446.2	443.7	442.6	440.5	438.9
170°	455.0	455.0	455.0	455.0	455.0	451.3	446.2	443.7	443.6	443.5	443.4
172.5°	451.5	450.6	451.5	452.4	452.6	449.6	445.6	443.7	443.7	443.7	443.7
175°	449.3	449.3	449.3	449.3	449.3	447.5	445.0	443.7	444.3	445.5	446.4
177.5°	447.5	446.4	447.5	448.5	448.7	447.3	445.3	444.3	444.8	445.7	446.4
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4

TEST NUMBER: P934599

CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	2636.6	2621.7	2621.7	2597.2	2587.3	2580.0	2567.7	2530.7	2521.0	2511.1	2525.8
5°	2658.6	2631.6	2611.9	2567.7	2530.7	2516.0	2469.3	2380.7	2321.7	2277.4	2252.8
7.5°	2663.6	2629.1	2592.3	2523.4	2434.8	2395.5	2252.8	2090.5	2046.2	2006.9	1982.3
10°	2658.6	2619.3	2567.7	2464.4	2255.3	2186.5	2043.8	1938.0	1911.0	1903.6	1911.0
12.5°	2641.4	2604.6	2533.3	2361.1	2068.4	2021.6	1938.0	1876.6	1871.6	1883.9	1950.3
15°	2611.9	2577.4	2493.9	2223.4	1965.1	1930.6	1871.6	1849.5	1876.6	1962.6	2161.8
17.5°	2582.4	2543.0	2439.7	2088.1	1886.4	1861.8	1820.0	1864.3	2016.8	2132.3	2198.8
20°	2543.0	2496.3	2378.3	1989.6	1829.9	1807.7	1788.0	1987.2	2102.8	2144.6	2181.5
22.5°	2496.3	2447.1	2294.7	1920.8	1770.8	1753.6	1765.9	2056.1	2102.8	2132.3	2164.3
25°	2434.8	2393.0	2196.2	1866.7	1724.0	1704.4	1751.1	2048.8	2075.8	2083.2	2147.1
27.5°	2378.3	2324.1	2092.9	1817.6	1667.5	1660.1	1763.4	2016.8	2036.5	2043.8	2112.6
30°	2309.4	2228.2	1977.3	1765.9	1608.4	1606.0	1765.9	1977.3	1972.5	1992.2	2061.0
32.5°	2238.1	2085.6	1847.0	1702.0	1552.0	1549.4	1748.7	1918.3	1913.5	1940.5	1992.2
35°	2171.7	1974.9	1670.0	1628.1	1480.5	1483.1	1706.9	1849.5	1852.0	1876.6	1908.5
37.5°	2102.8	1879.0	1475.7	1547.0	1411.7	1411.7	1650.3	1785.6	1780.6	1788.0	1832.3
40°	2021.6	1729.0	1303.5	1441.2	1347.8	1340.4	1581.4	1716.7	1699.4	1697.0	1758.5
42.5°	1935.6	1564.2	1175.6	1301.1	1273.9	1264.2	1497.8	1633.1	1601.1	1608.4	1687.1
45°	1842.1	1520.0	1077.2	1099.3	1197.8	1190.3	1406.8	1537.1	1515.0	1534.7	1615.8
47.5°	1748.7	1431.4	1045.3	912.4	1116.6	1114.2	1305.9	1443.7	1431.4	1451.1	1537.1
50°	1620.7	1333.1	1042.8	782.1	1025.6	1035.4	1185.5	1352.7	1352.7	1369.9	1460.9
52.5°	1456.0	1212.5	946.9	708.3	919.9	949.3	1079.7	1273.9	1278.9	1296.1	1377.2
55°	1305.9	1087.0	878.0	651.7	794.4	858.3	976.4	1192.8	1202.6	1219.9	1293.6
57.5°	1168.2	905.0	863.3	585.4	678.8	740.3	885.4	1114.2	1119.0	1133.8	1205.1
60°	1020.6	654.2	792.0	514.1	578.0	624.7	801.8	1020.6	1037.9	1047.7	1109.2
62.5°	853.4	474.7	718.1	464.8	528.8	538.6	733.0	932.1	954.3	961.6	998.6
65°	607.5	398.5	610.0	423.1	477.1	479.6	659.1	841.1	860.8	873.1	900.2
67.5°	410.8	324.6	464.8	383.6	437.8	440.2	587.8	735.4	762.4	772.3	789.4
70°	285.3	216.5	344.3	341.9	393.5	398.5	511.5	639.4	664.1	671.4	681.3
72.5°	209.0	174.6	285.3	307.5	346.8	351.7	432.9	531.2	555.8	563.2	568.1
75°	159.9	184.5	231.2	268.1	295.2	297.6	354.2	432.9	450.1	455.0	457.5
77.5°	127.9	172.2	169.7	216.5	241.0	236.1	277.9	334.5	349.2	349.2	349.2
80°	95.9	135.3	127.9	154.9	177.0	172.2	199.2	238.6	243.5	248.4	245.9
82.5°	71.3	86.0	86.0	98.4	118.0	113.2	132.8	154.9	154.9	154.9	159.9
85°	44.3	49.2	39.3	51.6	66.4	64.0	73.7	83.6	86.0	86.0	81.2
87.5°	27.0	22.1	12.3	19.7	29.6	29.6	34.4	36.9	34.4	34.4	34.4
90°	7.8	5.4	3.0	5.4	7.8	8.4	13.2	19.6	22.8	20.3	15.1
92.5°	52.7	32.4	12.0	32.4	52.7	57.8	81.3	112.6	128.2	112.3	80.6
95°	103.3	66.0	28.8	66.0	103.3	112.6	200.0	316.6	374.8	334.5	253.8
97.5°	115.5	82.7	49.7	82.7	115.5	123.7	269.5	463.8	560.9	535.4	484.3
100°	125.6	95.7	65.9	95.7	125.6	133.0	294.7	510.3	618.0	619.9	623.6
102.5°	135.4	107.6	79.7	107.6	135.4	142.3	306.3	524.9	634.2	666.7	731.7
105°	150.2	126.6	103.1	126.6	150.2	156.1	314.8	526.6	632.4	705.2	850.9
107.5°	170.9	149.0	127.0	149.0	170.9	176.5	316.5	503.1	596.4	698.0	901.2
110°	182.9	163.0	143.2	163.0	182.9	187.8	314.1	482.4	566.5	680.0	907.3

TEST NUMBER: P934599

CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	196.9	178.0	159.1	178.0	196.9	201.6	314.1	464.2	539.2	655.5	888.0
115°	217.9	200.5	183.0	200.5	217.9	222.3	317.1	443.4	506.6	618.6	842.5
117.5°	238.4	222.6	206.7	222.6	238.4	242.3	323.0	430.4	484.1	585.2	787.3
120°	250.3	235.4	220.4	235.4	250.3	254.1	327.7	426.0	475.1	567.4	752.1
122.5°	264.1	249.0	234.0	249.0	264.1	267.8	334.6	423.6	468.2	551.4	717.7
125°	282.1	268.3	254.7	268.3	282.1	285.5	343.9	421.8	460.8	531.4	672.7
127.5°	299.1	285.3	271.4	285.3	299.1	302.6	353.2	420.7	454.5	515.1	636.3
130°	310.3	295.4	280.4	295.4	310.3	314.0	360.0	421.3	452.0	506.0	614.1
132.5°	319.6	304.7	289.7	304.7	319.6	323.3	365.5	421.8	450.0	498.4	595.0
135°	330.6	317.1	303.5	317.1	330.6	334.0	371.5	421.4	446.4	486.9	567.8
137.5°	344.4	331.0	317.5	331.0	344.4	347.8	380.4	423.9	445.7	479.9	548.4
140°	354.0	341.7	329.3	341.7	354.0	357.1	386.0	424.4	443.7	473.3	532.4
142.5°	361.0	349.6	338.2	349.6	361.0	364.0	390.5	426.0	443.7	469.7	521.5
145°	372.0	362.0	352.0	362.0	372.0	374.5	396.6	426.0	440.7	461.9	504.4
147.5°	385.3	375.5	365.8	375.5	385.3	387.7	405.3	428.9	440.7	457.4	490.8
150°	392.3	383.6	374.8	383.6	392.3	394.6	410.0	430.4	440.7	454.8	483.0
152.5°	397.4	390.7	384.0	390.7	397.4	399.0	412.9	431.4	440.7	452.7	476.8
155°	407.7	402.8	397.9	402.8	407.7	408.9	419.5	433.6	440.7	450.3	469.5
157.5°	417.6	412.8	408.0	412.8	417.6	418.8	426.1	435.9	440.7	448.2	463.1
160°	422.3	418.6	414.9	418.6	422.3	423.3	429.1	436.8	440.7	447.1	459.9
162.5°	427.4	424.6	421.8	424.6	427.4	428.1	432.3	437.9	440.7	446.1	456.9
165°	434.3	431.8	429.3	431.8	434.3	435.0	436.9	439.4	440.7	444.6	452.2
167.5°	438.6	437.3	436.1	437.3	438.6	438.9	440.5	442.6	443.7	446.2	451.3
170°	443.1	441.9	440.7	441.9	443.1	443.4	443.5	443.6	443.7	446.2	451.3
172.5°	443.6	443.4	443.1	443.4	443.6	443.7	443.7	443.7	443.7	445.6	449.6
175°	446.4	446.4	446.4	446.4	446.4	446.4	445.5	444.3	443.7	445.0	447.5
177.5°	446.4	446.4	446.4	446.4	446.4	446.4	445.7	444.8	444.3	445.3	447.3
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4

TEST NUMBER: P934599

CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	2508.6	2501.3	2511.1	2484.0	2511.1	2501.3	2508.6	2525.8	2511.1	2521.0	2530.7
5°	2201.2	2188.9	2149.5	2117.6	2149.5	2188.9	2201.2	2252.8	2277.4	2321.7	2380.7
7.5°	1967.6	1957.7	1947.9	1928.2	1947.9	1957.7	1967.6	1982.3	2006.9	2046.2	2090.5
10°	1915.9	1918.3	1933.2	1930.6	1933.2	1918.3	1915.9	1911.0	1903.6	1911.0	1938.0
12.5°	2048.8	2070.8	2152.1	2147.1	2152.1	2070.8	2048.8	1950.3	1883.9	1871.6	1876.6
15°	2201.2	2208.5	2225.8	2228.2	2225.8	2208.5	2201.2	2161.8	1962.6	1876.6	1849.5
17.5°	2215.9	2218.4	2230.7	2230.7	2230.7	2218.4	2215.9	2198.8	2132.3	2016.8	1864.3
20°	2203.7	2208.5	2233.2	2238.1	2233.2	2208.5	2203.7	2181.5	2144.6	2102.8	1987.2
22.5°	2198.8	2208.5	2228.2	2225.8	2228.2	2208.5	2198.8	2164.3	2132.3	2102.8	2056.1
25°	2174.1	2174.1	2176.6	2179.1	2176.6	2174.1	2174.1	2147.1	2083.2	2075.8	2048.8
27.5°	2122.5	2127.4	2142.2	2139.7	2142.2	2127.4	2122.5	2112.6	2043.8	2036.5	2016.8
30°	2075.8	2070.8	2058.5	2048.8	2058.5	2070.8	2075.8	2061.0	1992.2	1972.5	1977.3
32.5°	1997.1	1984.8	1972.5	1965.1	1972.5	1984.8	1997.1	1992.2	1940.5	1913.5	1918.3
35°	1903.6	1906.0	1903.6	1896.2	1903.6	1906.0	1903.6	1908.5	1876.6	1852.0	1849.5
37.5°	1837.2	1842.1	1839.6	1829.9	1839.6	1842.1	1837.2	1832.3	1788.0	1780.6	1785.6
40°	1768.3	1770.8	1768.3	1761.0	1768.3	1770.8	1768.3	1758.5	1697.0	1699.4	1716.7
42.5°	1702.0	1699.4	1692.1	1687.1	1692.1	1699.4	1702.0	1687.1	1608.4	1601.1	1633.1
45°	1625.7	1628.1	1613.4	1606.0	1613.4	1628.1	1625.7	1615.8	1534.7	1515.0	1537.1
47.5°	1549.4	1549.4	1537.1	1529.8	1537.1	1549.4	1549.4	1537.1	1451.1	1431.4	1443.7
50°	1468.3	1465.8	1448.7	1446.1	1448.7	1465.8	1468.3	1460.9	1369.9	1352.7	1352.7
52.5°	1374.8	1374.8	1377.2	1382.2	1377.2	1374.8	1374.8	1377.2	1296.1	1278.9	1273.9
55°	1293.6	1296.1	1313.4	1318.2	1313.4	1296.1	1293.6	1293.6	1219.9	1202.6	1192.8
57.5°	1210.1	1210.1	1222.3	1222.3	1222.3	1210.1	1210.1	1205.1	1133.8	1119.0	1114.2
60°	1114.2	1119.0	1128.9	1126.5	1128.9	1119.0	1114.2	1109.2	1047.7	1037.9	1020.6
62.5°	1013.3	1018.2	1020.6	1015.7	1020.6	1018.2	1013.3	998.6	961.6	954.3	932.1
65°	907.6	912.4	914.9	910.0	914.9	912.4	907.6	900.2	873.1	860.8	841.1
67.5°	799.3	796.8	794.4	804.3	794.4	796.8	799.3	789.4	772.3	762.4	735.4
70°	688.7	688.7	686.1	691.1	686.1	688.7	688.7	681.3	671.4	664.1	639.4
72.5°	570.5	568.1	578.0	570.5	578.0	568.1	570.5	568.1	563.2	555.8	531.2
75°	455.0	459.9	455.0	462.4	455.0	459.9	455.0	457.5	455.0	450.1	432.9
77.5°	346.8	351.7	346.8	346.8	346.8	351.7	346.8	349.2	349.2	349.2	334.5
80°	245.9	243.5	243.5	241.0	243.5	243.5	245.9	245.9	248.4	243.5	238.6
82.5°	157.4	154.9	154.9	159.9	154.9	154.9	157.4	159.9	154.9	154.9	154.9
85°	86.0	88.6	83.6	83.6	83.6	88.6	86.0	81.2	86.0	86.0	83.6
87.5°	32.0	29.6	29.6	29.6	29.6	29.6	32.0	34.4	34.4	34.4	36.9
90°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	15.1	20.3	22.8	19.6
92.5°	56.9	54.7	45.5	36.5	45.5	54.7	56.9	80.6	112.3	128.2	112.6
95°	193.2	186.3	158.9	131.5	158.9	186.3	193.2	253.8	334.5	374.8	316.6
97.5°	446.0	432.9	380.8	328.7	380.8	432.9	446.0	484.3	535.4	560.9	463.8
100°	626.5	611.0	548.7	486.5	548.7	611.0	626.5	623.6	619.9	618.0	510.3
102.5°	780.4	767.2	713.9	660.6	713.9	767.2	780.4	731.7	666.7	634.2	524.9
105°	960.2	953.0	924.4	895.7	924.4	953.0	960.2	850.9	705.2	632.4	526.6
107.5°	1053.6	1055.3	1062.2	1069.2	1062.2	1055.3	1053.6	901.2	698.0	596.4	503.1
110°	1077.6	1085.1	1114.8	1144.7	1114.8	1085.1	1077.6	907.3	680.0	566.5	482.4

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1062.3	1073.7	1119.6	1165.3	1119.6	1073.7	1062.3	888.0	655.5	539.2	464.2
115°	1010.5	1026.4	1089.8	1153.4	1089.8	1026.4	1010.5	842.5	618.6	506.6	443.4
117.5°	938.9	956.5	1026.9	1097.4	1026.9	956.5	938.9	787.3	585.2	484.1	430.4
120°	890.6	907.8	976.2	1044.7	976.2	907.8	890.6	752.1	567.4	475.1	426.0
122.5°	842.4	859.3	926.8	994.3	926.8	859.3	842.4	717.7	551.4	468.2	423.6
125°	778.6	794.1	856.3	918.5	856.3	794.1	778.6	672.7	531.4	460.8	421.8
127.5°	727.3	740.4	792.9	845.5	792.9	740.4	727.3	636.3	515.1	454.5	420.7
130°	695.1	707.2	755.6	804.1	755.6	707.2	695.1	614.1	506.0	452.0	421.3
132.5°	667.4	678.3	721.7	765.1	721.7	678.3	667.4	595.0	498.4	450.0	421.8
135°	628.5	637.9	675.3	712.7	675.3	637.9	628.5	567.8	486.9	446.4	421.4
137.5°	599.7	607.4	638.1	668.7	638.1	607.4	599.7	548.4	479.9	445.7	423.9
140°	576.7	583.8	612.4	641.1	612.4	583.8	576.7	532.4	473.3	443.7	424.4
142.5°	560.5	566.7	591.3	615.9	591.3	566.7	560.5	521.5	469.7	443.7	426.0
145°	536.2	540.9	559.6	578.2	559.6	540.9	536.2	504.4	461.9	440.7	426.0
147.5°	515.9	519.8	535.2	550.6	535.2	519.8	515.9	490.8	457.4	440.7	428.9
150°	504.2	507.3	519.9	532.4	519.9	507.3	504.2	483.0	454.8	440.7	430.4
152.5°	494.9	497.2	506.7	516.2	506.7	497.2	494.9	476.8	452.7	440.7	431.4
155°	483.8	485.4	491.7	497.9	491.7	485.4	483.8	469.5	450.3	440.7	433.6
157.5°	474.2	475.3	479.8	484.1	479.8	475.3	474.2	463.1	448.2	440.7	435.9
160°	469.5	470.1	472.6	475.1	472.6	470.1	469.5	459.9	447.1	440.7	436.8
162.5°	464.9	465.5	467.9	470.4	467.9	465.5	464.9	456.9	446.1	440.7	437.9
165°	458.0	458.7	461.2	463.8	461.2	458.7	458.0	452.2	444.6	440.7	439.4
167.5°	455.0	455.3	456.4	457.5	456.4	455.3	455.0	451.3	446.2	443.7	442.6
170°	455.0	455.0	455.0	455.0	455.0	455.0	455.0	451.3	446.2	443.7	443.6
172.5°	452.6	452.4	451.5	450.6	451.5	452.4	452.6	449.6	445.6	443.7	443.7
175°	449.3	449.3	449.3	449.3	449.3	449.3	449.3	447.5	445.0	443.7	444.3
177.5°	448.7	448.5	447.5	446.4	447.5	448.5	448.7	447.3	445.3	444.3	444.8
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	2567.7	2580.0	2587.3	2597.2	2621.7
5°	2469.3	2516.0	2530.7	2567.7	2611.9
7.5°	2252.8	2395.5	2434.8	2523.4	2592.3
10°	2043.8	2186.5	2255.3	2464.4	2567.7
12.5°	1938.0	2021.6	2068.4	2361.1	2533.3
15°	1871.6	1930.6	1965.1	2223.4	2493.9
17.5°	1820.0	1861.8	1886.4	2088.1	2439.7
20°	1788.0	1807.7	1829.9	1989.6	2378.3
22.5°	1765.9	1753.6	1770.8	1920.8	2294.7
25°	1751.1	1704.4	1724.0	1866.7	2196.2
27.5°	1763.4	1660.1	1667.5	1817.6	2092.9
30°	1765.9	1606.0	1608.4	1765.9	1977.3
32.5°	1748.7	1549.4	1552.0	1702.0	1847.0
35°	1706.9	1483.1	1480.5	1628.1	1670.0
37.5°	1650.3	1411.7	1411.7	1547.0	1475.7
40°	1581.4	1340.4	1347.8	1441.2	1303.5
42.5°	1497.8	1264.2	1273.9	1301.1	1175.6
45°	1406.8	1190.3	1197.8	1099.3	1077.2
47.5°	1305.9	1114.2	1116.6	912.4	1045.3
50°	1185.5	1035.4	1025.6	782.1	1042.8
52.5°	1079.7	949.3	919.9	708.3	946.9
55°	976.4	858.3	794.4	651.7	878.0
57.5°	885.4	740.3	678.8	585.4	863.3
60°	801.8	624.7	578.0	514.1	792.0
62.5°	733.0	538.6	528.8	464.8	718.1
65°	659.1	479.6	477.1	423.1	610.0
67.5°	587.8	440.2	437.8	383.6	464.8
70°	511.5	398.5	393.5	341.9	344.3
72.5°	432.9	351.7	346.8	307.5	285.3
75°	354.2	297.6	295.2	268.1	231.2
77.5°	277.9	236.1	241.0	216.5	169.7
80°	199.2	172.2	177.0	154.9	127.9
82.5°	132.8	113.2	118.0	98.4	86.0
85°	73.7	64.0	66.4	51.6	39.3
87.5°	34.4	29.6	29.6	19.7	12.3
90°	13.2	8.4	7.8	5.4	3.0
92.5°	81.3	57.8	52.7	32.4	12.0
95°	200.0	112.6	103.3	66.0	28.8
97.5°	269.5	123.7	115.5	82.7	49.7
100°	294.7	133.0	125.6	95.7	65.9
102.5°	306.3	142.3	135.4	107.6	79.7
105°	314.8	156.1	150.2	126.6	103.1
107.5°	316.5	176.5	170.9	149.0	127.0
110°	314.1	187.8	182.9	163.0	143.2



TEST NUMBER: P934599

CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	314.1	201.6	196.9	178.0	159.1
115°	317.1	222.3	217.9	200.5	183.0
117.5°	323.0	242.3	238.4	222.6	206.7
120°	327.7	254.1	250.3	235.4	220.4
122.5°	334.6	267.8	264.1	249.0	234.0
125°	343.9	285.5	282.1	268.3	254.7
127.5°	353.2	302.6	299.1	285.3	271.4
130°	360.0	314.0	310.3	295.4	280.4
132.5°	365.5	323.3	319.6	304.7	289.7
135°	371.5	334.0	330.6	317.1	303.5
137.5°	380.4	347.8	344.4	331.0	317.5
140°	386.0	357.1	354.0	341.7	329.3
142.5°	390.5	364.0	361.0	349.6	338.2
145°	396.6	374.5	372.0	362.0	352.0
147.5°	405.3	387.7	385.3	375.5	365.8
150°	410.0	394.6	392.3	383.6	374.8
152.5°	412.9	399.0	397.4	390.7	384.0
155°	419.5	408.9	407.7	402.8	397.9
157.5°	426.1	418.8	417.6	412.8	408.0
160°	429.1	423.3	422.3	418.6	414.9
162.5°	432.3	428.1	427.4	424.6	421.8
165°	436.9	435.0	434.3	431.8	429.3
167.5°	440.5	438.9	438.6	437.3	436.1
170°	443.5	443.4	443.1	441.9	440.7
172.5°	443.7	443.7	443.6	443.4	443.1
175°	445.5	446.4	446.4	446.4	446.4
177.5°	445.7	446.4	446.4	446.4	446.4
180°	446.4	446.4	446.4	446.4	446.4

(END OF REPORT)