

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: P933997

Luminaire Tested: SQ4-FA-025U-075D-B35-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933997
REPORT IS A COMBINATION OF REPORTS P933677 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-B35-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

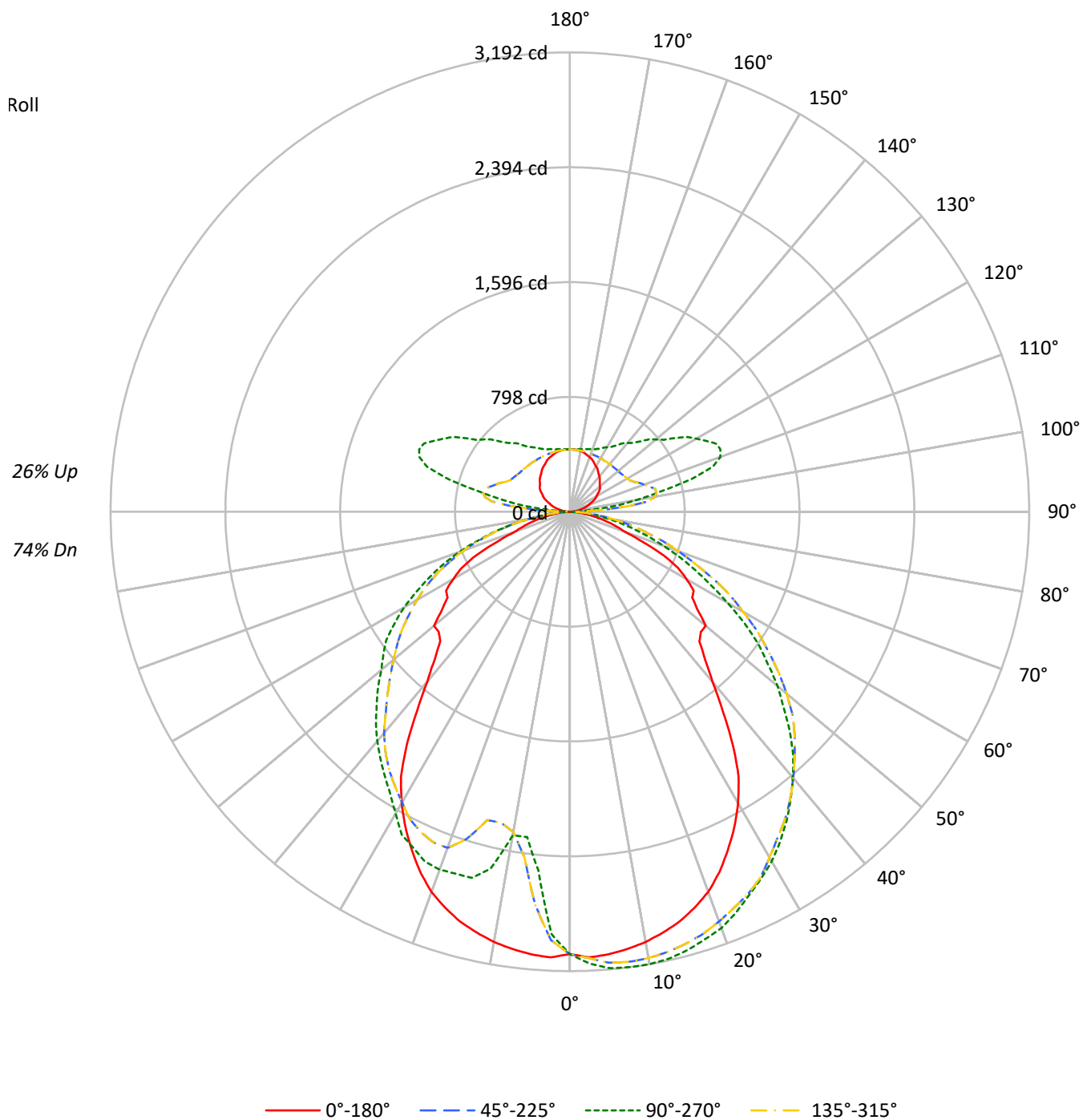
Lumens per Lamp: N/A
Luminaire Lumens: 10781.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 90
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9504	9504	9504	9504
5°	9579	9594	9579	7544
10°	9518	9451	9518	6756
15°	9418	9246	9418	7721
20°	9225	9003	9225	7737
25°	8825	8650	8825	7573
30°	8308	8356	8308	7213
35°	7410	7984	7410	6817
40°	6178	7547	6178	6518
45°	5524	7035	5524	6175
50°	5873	6424	5873	5829
55°	5531	5766	5531	5630
60°	5708	4897	5708	5156
65°	5184	4048	5184	4526
70°	3598	3227	3598	3794
75°	3168	2385	3168	2856
80°	2572	1577	2572	1717
85°	1507	835	1507	710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 8460 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	2.6
10°-20°	787.5	7.3
20°-30°	1217.4	11.3
30°-40°	1453.3	13.5
40°-50°	1461.8	13.6
50°-60°	1271.9	11.8
60°-70°	901.8	8.4
70°-80°	477.1	4.4
80°-90°	120.5	1.1
90°-100°	211.5	2.0
100°-110°	556.0	5.2
110°-120°	576.5	5.3
120°-130°	462.4	4.3
130°-140°	362.8	3.4
140°-150°	278.5	2.6
150°-160°	200.6	1.9
160°-170°	122.7	1.1
170°-180°	41.5	0.4
0°-30°	2282.3	21.2
0°-40°	3735.6	34.6
0°-60°	6469.3	60.0
0°-90°	7968.7	73.9
90°-120°	1343.9	12.5
90°-150°	2447.6	22.7
90°-180°	2812.0	26.1
0°-180°	10781.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3073	3073	3073	3073	3073	
5°	3087	3183	3087	2503	3087	293
15°	2948	3154	2948	2634	2948	829
25°	2596	2942	2596	2576	2596	1192
35°	1974	2625	1974	2241	1974	1221
45°	1273	2163	1273	1898	1273	1020
55°	1038	1596	1038	1558	1038	954
65°	721	962	721	1076	721	689
75°	273	456	273	546	273	287
85°	46	116	46	99	46	63
90°	3	11	3	11	3	4
95°	28	128	28	128	28	31
105°	100	870	100	870	100	106
115°	178	1121	178	1121	178	176
125°	248	893	248	893	248	220
135°	295	693	295	693	295	228
145°	342	562	342	562	342	214
155°	387	484	387	484	387	178
165°	417	451	417	451	417	118
175°	434	437	434	437	434	41
180°	434	434	434	434	434	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8
2.5°	3099.0	3099.0	3116.4	3122.2	3122.2	3113.5	3104.8	3113.5	3139.7	3148.4	3145.5
5°	3087.3	3110.6	3142.6	3148.4	3154.2	3151.3	3145.5	3151.3	3180.4	3186.2	3189.1
7.5°	3064.1	3107.7	3148.4	3157.1	3165.8	3157.1	3154.2	3160.0	3189.1	3194.9	3194.9
10°	3035.0	3096.1	3142.6	3148.4	3157.1	3148.4	3148.4	3160.0	3189.1	3194.9	3197.8
12.5°	2994.3	3078.6	3122.2	3128.0	3139.7	3136.7	3133.8	3145.5	3174.5	3180.4	3180.4
15°	2947.8	3046.6	3087.3	3093.1	3113.5	3107.7	3107.7	3119.3	3151.3	3160.0	3157.1
17.5°	2883.8	3005.9	3052.4	3061.2	3075.7	3072.8	3075.7	3087.3	3116.4	3122.2	3125.1
20°	2811.2	2950.7	3005.9	3014.7	3029.2	3029.2	3029.2	3043.7	3072.8	3084.4	3084.4
22.5°	2712.3	2892.6	2950.7	2956.5	2974.0	2974.0	2979.8	3000.1	3026.3	3029.2	3029.2
25°	2596.0	2828.6	2878.0	2895.5	2912.9	2921.6	2930.4	2942.0	2950.7	2947.8	2950.7
27.5°	2473.9	2747.2	2811.2	2822.8	2846.0	2854.8	2866.4	2869.3	2872.2	2880.9	2875.1
30°	2337.2	2633.8	2729.8	2741.4	2779.2	2785.0	2773.4	2779.2	2793.7	2799.5	2805.4
32.5°	2183.2	2465.1	2645.5	2671.6	2706.5	2689.1	2686.2	2694.9	2718.1	2718.1	2724.0
35°	1973.9	2334.3	2567.0	2590.2	2616.4	2596.0	2607.7	2610.6	2625.1	2633.8	2630.9
37.5°	1744.2	2220.9	2485.5	2502.9	2523.3	2497.1	2514.6	2523.3	2534.9	2529.1	2529.1
40°	1540.7	2043.6	2389.6	2401.2	2418.6	2398.3	2415.7	2421.5	2427.3	2421.5	2418.6
42.5°	1389.5	1848.9	2287.8	2302.3	2290.7	2305.3	2311.1	2322.7	2314.0	2302.3	2302.3
45°	1273.3	1796.5	2177.3	2194.8	2177.3	2200.6	2209.3	2209.3	2183.2	2177.3	2174.4
47.5°	1235.5	1691.9	2066.9	2066.9	2058.2	2087.2	2101.8	2081.4	2055.2	2046.5	2046.5
50°	1232.6	1575.6	1915.7	1904.1	1944.8	1979.7	1965.1	1944.8	1924.4	1892.5	1892.5
52.5°	1119.2	1433.2	1720.9	1764.5	1828.5	1848.9	1825.6	1805.2	1770.4	1755.8	1744.2
55°	1037.8	1284.9	1543.6	1630.8	1697.7	1723.9	1680.2	1659.9	1607.6	1598.8	1593.0
57.5°	1020.4	1069.8	1380.8	1491.3	1572.7	1569.8	1543.6	1505.8	1462.2	1453.5	1450.6
60°	936.1	773.3	1206.4	1337.2	1421.5	1412.8	1389.5	1354.7	1314.0	1308.1	1302.3
62.5°	848.8	561.1	1008.7	1157.0	1276.2	1273.3	1252.9	1200.6	1171.5	1157.0	1145.4
65°	720.9	470.9	718.0	962.2	1133.7	1139.5	1095.9	1058.1	1026.2	1008.7	1005.8
67.5°	549.4	383.7	485.5	802.3	997.1	991.3	936.1	918.6	877.9	869.2	851.8
70°	407.0	255.8	337.2	651.2	863.4	848.8	805.2	784.9	747.1	726.8	715.1
72.5°	337.2	206.4	247.1	505.8	726.8	709.3	671.5	648.3	616.3	598.8	587.2
75°	273.3	218.0	189.0	375.0	590.1	578.5	543.6	520.4	494.2	470.9	473.8
77.5°	200.6	203.5	151.2	276.2	468.0	450.6	430.2	401.2	389.5	366.3	366.3
80°	151.2	159.9	113.4	189.0	337.2	337.2	319.8	299.4	279.1	267.4	267.4
82.5°	101.7	101.7	84.3	119.2	229.7	220.9	209.3	203.5	191.9	186.0	186.0
85°	46.5	58.1	52.3	72.7	125.0	130.8	130.8	125.0	122.1	116.3	119.2
87.5°	14.5	26.2	32.0	40.7	64.0	66.9	69.8	69.8	69.8	72.7	72.7
90°	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.7	14.7	11.0	11.0
92.5°	11.6	31.4	51.3	56.2	79.0	109.4	124.6	109.2	78.4	55.3	53.1
95°	27.9	64.1	100.4	109.5	194.4	307.7	364.2	325.0	246.6	187.8	181.1
97.5°	48.4	80.3	112.3	120.3	261.8	450.7	545.1	520.3	470.7	433.5	420.8
100°	64.1	93.0	122.0	129.3	286.4	495.9	600.7	602.5	606.1	608.8	593.7
102.5°	77.4	104.5	131.5	138.3	297.7	510.2	616.4	648.0	711.1	758.4	745.5
105°	100.2	123.1	145.9	151.6	306.0	511.7	614.6	685.4	826.9	933.1	926.2
107.5°	123.5	144.8	166.2	171.5	307.6	489.0	579.7	678.4	875.9	1024.0	1025.7
110°	139.1	158.4	177.7	182.6	305.2	468.8	550.6	661.0	881.7	1047.3	1054.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	154.7	173.0	191.4	195.9	305.3	451.2	524.1	637.1	863.0	1032.5	1043.6
115°	177.9	194.9	211.8	216.1	308.1	430.9	492.3	601.2	818.8	982.1	997.5
117.5°	200.9	216.3	231.7	235.6	313.9	418.3	470.5	568.8	765.2	912.5	929.7
120°	214.2	228.8	243.3	246.9	318.5	414.0	461.7	551.5	731.0	865.6	882.3
122.5°	227.4	242.1	256.6	260.3	325.2	411.7	455.0	535.9	697.5	818.7	835.1
125°	247.5	260.9	274.2	277.5	334.3	410.0	447.8	516.4	653.7	756.7	771.8
127.5°	263.8	277.2	290.7	294.1	343.3	408.9	441.7	500.6	618.5	706.9	719.7
130°	272.5	287.0	301.6	305.1	349.9	409.5	439.3	491.9	596.8	675.5	687.3
132.5°	281.6	296.0	310.6	314.1	355.2	410.0	437.3	484.3	578.3	648.7	659.3
135°	295.0	308.1	321.3	324.6	361.0	409.6	433.8	473.2	551.8	610.9	620.0
137.5°	308.6	321.7	334.7	338.0	369.8	412.1	433.2	466.5	532.9	582.9	590.3
140°	320.0	332.0	344.1	347.1	375.1	412.5	431.2	459.9	517.3	560.5	567.4
142.5°	328.7	339.8	351.0	353.8	379.6	414.0	431.2	456.4	506.9	544.8	550.8
145°	342.2	351.8	361.5	364.0	385.4	414.0	428.3	448.9	490.2	521.1	525.7
147.5°	355.5	364.9	374.4	376.7	393.9	416.9	428.3	444.6	477.0	501.4	505.1
150°	364.2	372.8	381.3	383.4	398.4	418.3	428.3	442.1	469.5	490.0	493.0
152.5°	373.3	379.8	386.1	387.8	401.3	419.3	428.3	440.0	463.5	481.0	483.3
155°	386.6	391.4	396.2	397.4	407.7	421.4	428.3	437.6	456.3	470.3	471.8
157.5°	396.5	401.2	405.9	407.1	414.2	423.5	428.3	435.6	450.0	460.9	461.9
160°	403.3	406.9	410.6	411.4	417.1	424.5	428.3	434.5	446.9	456.2	456.8
162.5°	410.0	412.7	415.4	416.1	420.2	425.6	428.3	433.5	444.0	451.8	452.4
165°	417.3	419.7	422.2	422.8	424.6	427.0	428.3	432.1	439.5	445.2	445.7
167.5°	423.9	425.1	426.3	426.6	428.1	430.1	431.2	433.6	438.6	442.3	442.5
170°	428.3	429.5	430.6	430.9	431.0	431.1	431.2	433.6	438.6	442.3	442.3
172.5°	430.6	430.9	431.1	431.2	431.2	431.2	431.2	433.1	437.0	439.9	439.7
175°	433.8	433.8	433.8	433.8	432.9	431.8	431.2	432.5	434.9	436.7	436.7
177.5°	433.8	433.8	433.8	433.8	433.1	432.3	431.8	432.8	434.7	436.1	435.9
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8
2.5°	3151.3	3142.6	3151.3	3145.5	3148.4	3139.7	3113.5	3104.8	3113.5	3122.2	3122.2
5°	3189.1	3183.3	3189.1	3189.1	3186.2	3180.4	3151.3	3145.5	3151.3	3154.2	3148.4
7.5°	3200.7	3192.0	3200.7	3194.9	3194.9	3189.1	3160.0	3154.2	3157.1	3165.8	3157.1
10°	3200.7	3192.0	3200.7	3197.8	3194.9	3189.1	3160.0	3148.4	3148.4	3157.1	3148.4
12.5°	3186.2	3180.4	3186.2	3180.4	3180.4	3174.5	3145.5	3133.8	3136.7	3139.7	3128.0
15°	3162.9	3154.2	3162.9	3157.1	3160.0	3151.3	3119.3	3107.7	3107.7	3113.5	3093.1
17.5°	3128.0	3116.4	3128.0	3125.1	3122.2	3116.4	3087.3	3075.7	3072.8	3075.7	3061.2
20°	3087.3	3078.6	3087.3	3084.4	3084.4	3072.8	3043.7	3029.2	3029.2	3029.2	3014.7
22.5°	3023.4	3014.7	3023.4	3029.2	3029.2	3026.3	3000.1	2979.8	2974.0	2974.0	2956.5
25°	2950.7	2942.0	2950.7	2950.7	2947.8	2950.7	2942.0	2930.4	2921.6	2912.9	2895.5
27.5°	2880.9	2875.1	2880.9	2875.1	2880.9	2872.2	2869.3	2866.4	2854.8	2846.0	2822.8
30°	2811.2	2805.4	2811.2	2805.4	2799.5	2793.7	2779.2	2773.4	2785.0	2779.2	2741.4
32.5°	2724.0	2718.1	2724.0	2724.0	2718.1	2718.1	2694.9	2686.2	2689.1	2706.5	2671.6
35°	2633.8	2625.1	2633.8	2630.9	2633.8	2625.1	2610.6	2607.7	2596.0	2616.4	2590.2
37.5°	2529.1	2520.4	2529.1	2529.1	2529.1	2534.9	2523.3	2514.6	2497.1	2523.3	2502.9
40°	2421.5	2409.9	2421.5	2418.6	2421.5	2427.3	2421.5	2415.7	2398.3	2418.6	2401.2
42.5°	2299.4	2296.5	2299.4	2302.3	2302.3	2314.0	2322.7	2311.1	2305.3	2290.7	2302.3
45°	2168.6	2162.8	2168.6	2174.4	2177.3	2183.2	2209.3	2209.3	2200.6	2177.3	2194.8
47.5°	2029.1	2014.6	2029.1	2046.5	2046.5	2055.2	2081.4	2101.8	2087.2	2058.2	2066.9
50°	1880.8	1883.7	1880.8	1892.5	1892.5	1924.4	1944.8	1965.1	1979.7	1944.8	1904.1
52.5°	1735.5	1732.6	1735.5	1744.2	1755.8	1770.4	1805.2	1825.6	1848.9	1828.5	1764.5
55°	1590.1	1595.9	1590.1	1593.0	1598.8	1607.6	1659.9	1680.2	1723.9	1697.7	1630.8
57.5°	1444.8	1436.1	1444.8	1450.6	1453.5	1462.2	1505.8	1543.6	1569.8	1572.7	1491.3
60°	1276.2	1264.5	1276.2	1302.3	1308.1	1314.0	1354.7	1389.5	1412.8	1421.5	1337.2
62.5°	1127.9	1107.6	1127.9	1145.4	1157.0	1171.5	1200.6	1252.9	1273.3	1276.2	1157.0
65°	970.9	962.2	970.9	1005.8	1008.7	1026.2	1058.1	1095.9	1139.5	1133.7	962.2
67.5°	828.5	828.5	828.5	851.8	869.2	877.9	918.6	936.1	991.3	997.1	802.3
70°	697.7	694.8	697.7	715.1	726.8	747.1	784.9	805.2	848.8	863.4	651.2
72.5°	572.7	569.8	572.7	587.2	598.8	616.3	648.3	671.5	709.3	726.8	505.8
75°	462.2	456.4	462.2	473.8	470.9	494.2	520.4	543.6	578.5	590.1	375.0
77.5°	354.7	354.7	354.7	366.3	366.3	389.5	401.2	430.2	450.6	468.0	276.2
80°	264.5	261.6	264.5	267.4	267.4	279.1	299.4	319.8	337.2	337.2	189.0
82.5°	186.0	180.2	186.0	186.0	186.0	191.9	203.5	209.3	220.9	229.7	119.2
85°	116.3	116.3	116.3	119.2	116.3	122.1	125.0	130.8	130.8	125.0	72.7
87.5°	75.6	72.7	75.6	72.7	72.7	69.8	69.8	69.8	66.9	64.0	40.7
90°	11.0	11.0	11.0	11.0	11.0	14.7	19.7	22.1	19.0	12.8	8.1
92.5°	44.4	35.6	44.4	53.1	55.3	78.4	109.2	124.6	109.4	79.0	56.2
95°	154.5	127.8	154.5	181.1	187.8	246.6	325.0	364.2	307.7	194.4	109.5
97.5°	370.2	319.4	370.2	420.8	433.5	470.7	520.3	545.1	450.7	261.8	120.3
100°	533.3	472.9	533.3	593.7	608.8	606.1	602.5	600.7	495.9	286.4	129.3
102.5°	693.7	642.0	693.7	745.5	758.4	711.1	648.0	616.4	510.2	297.7	138.3
105°	898.4	870.5	898.4	926.2	933.1	826.9	685.4	614.6	511.7	306.0	151.6
107.5°	1032.5	1039.2	1032.5	1025.7	1024.0	875.9	678.4	579.7	489.0	307.6	171.5
110°	1083.5	1112.5	1083.5	1054.6	1047.3	881.7	661.0	550.6	468.8	305.2	182.6

TEST NUMBER: P933997

CATALOG NUMBER: SQ4-FA-025U-075D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1088.1	1132.6	1088.1	1043.6	1032.5	863.0	637.1	524.1	451.2	305.3	195.9
115°	1059.2	1120.9	1059.2	997.5	982.1	818.8	601.2	492.3	430.9	308.1	216.1
117.5°	998.1	1066.5	998.1	929.7	912.5	765.2	568.8	470.5	418.3	313.9	235.6
120°	948.7	1015.2	948.7	882.3	865.6	731.0	551.5	461.7	414.0	318.5	246.9
122.5°	900.8	966.4	900.8	835.1	818.7	697.5	535.9	455.0	411.7	325.2	260.3
125°	832.2	892.6	832.2	771.8	756.7	653.7	516.4	447.8	410.0	334.3	277.5
127.5°	770.6	821.6	770.6	719.7	706.9	618.5	500.6	441.7	408.9	343.3	294.1
130°	734.4	781.5	734.4	687.3	675.5	596.8	491.9	439.3	409.5	349.9	305.1
132.5°	701.5	743.6	701.5	659.3	648.7	578.3	484.3	437.3	410.0	355.2	314.1
135°	656.3	692.6	656.3	620.0	610.9	551.8	473.2	433.8	409.6	361.0	324.6
137.5°	620.1	649.9	620.1	590.3	582.9	532.9	466.5	433.2	412.1	369.8	338.0
140°	595.3	623.1	595.3	567.4	560.5	517.3	459.9	431.2	412.5	375.1	347.1
142.5°	574.7	598.6	574.7	550.8	544.8	506.9	456.4	431.2	414.0	379.6	353.8
145°	543.8	561.9	543.8	525.7	521.1	490.2	448.9	428.3	414.0	385.4	364.0
147.5°	520.2	535.2	520.2	505.1	501.4	477.0	444.6	428.3	416.9	393.9	376.7
150°	505.2	517.3	505.2	493.0	490.0	469.5	442.1	428.3	418.3	398.4	383.4
152.5°	492.4	501.7	492.4	483.3	481.0	463.5	440.0	428.3	419.3	401.3	387.8
155°	477.8	483.9	477.8	471.8	470.3	456.3	437.6	428.3	421.4	407.7	397.4
157.5°	466.3	470.5	466.3	461.9	460.9	450.0	435.6	428.3	423.5	414.2	407.1
160°	459.3	461.7	459.3	456.8	456.2	446.9	434.5	428.3	424.5	417.1	411.4
162.5°	454.8	457.1	454.8	452.4	451.8	444.0	433.5	428.3	425.6	420.2	416.1
165°	448.3	450.7	448.3	445.7	445.2	439.5	432.1	428.3	427.0	424.6	422.8
167.5°	443.5	444.6	443.5	442.5	442.3	438.6	433.6	431.2	430.1	428.1	426.6
170°	442.3	442.3	442.3	442.3	442.3	438.6	433.6	431.2	431.1	431.0	430.9
172.5°	438.8	437.9	438.8	439.7	439.9	437.0	433.1	431.2	431.2	431.2	431.2
175°	436.7	436.7	436.7	436.7	436.7	434.9	432.5	431.2	431.8	432.9	433.8
177.5°	434.9	433.8	434.9	435.9	436.1	434.7	432.8	431.8	432.3	433.1	433.8
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8

TEST NUMBER: P933997

CATALOG NUMBER: SQ4-FA-025U-075D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8
2.5°	3116.4	3099.0	3099.0	3069.9	3058.3	3049.5	3035.0	2991.4	2979.8	2968.1	2985.6
5°	3142.6	3110.6	3087.3	3035.0	2991.4	2974.0	2918.7	2814.1	2744.3	2692.0	2662.9
7.5°	3148.4	3107.7	3064.1	2982.7	2878.0	2831.5	2662.9	2471.0	2418.6	2372.1	2343.0
10°	3142.6	3096.1	3035.0	2912.9	2665.8	2584.4	2415.7	2290.7	2258.7	2250.0	2258.7
12.5°	3122.2	3078.6	2994.3	2790.8	2444.8	2389.6	2290.7	2218.0	2212.2	2226.8	2305.3
15°	3087.3	3046.6	2947.8	2628.0	2322.7	2282.0	2212.2	2186.1	2218.0	2319.8	2555.3
17.5°	3052.4	3005.9	2883.8	2468.0	2229.7	2200.6	2151.2	2203.5	2383.7	2520.4	2599.0
20°	3005.9	2950.7	2811.2	2351.8	2162.8	2136.6	2113.4	2348.9	2485.5	2534.9	2578.6
22.5°	2950.7	2892.6	2712.3	2270.4	2093.0	2072.7	2087.2	2430.3	2485.5	2520.4	2558.2
25°	2878.0	2828.6	2596.0	2206.4	2037.8	2014.6	2069.8	2421.5	2453.5	2462.2	2537.8
27.5°	2811.2	2747.2	2473.9	2148.3	1970.9	1962.2	2084.3	2383.7	2407.0	2415.7	2497.1
30°	2729.8	2633.8	2337.2	2087.2	1901.2	1898.3	2087.2	2337.2	2331.4	2354.7	2436.1
32.5°	2645.5	2465.1	2183.2	2011.6	1834.3	1831.4	2066.9	2267.5	2261.6	2293.6	2354.7
35°	2567.0	2334.3	1973.9	1924.4	1750.0	1752.9	2017.5	2186.1	2189.0	2218.0	2255.8
37.5°	2485.5	2220.9	1744.2	1828.5	1668.6	1668.6	1950.6	2110.5	2104.7	2113.4	2165.7
40°	2389.6	2043.6	1540.7	1703.5	1593.0	1584.3	1869.2	2029.1	2008.7	2005.8	2078.5
42.5°	2287.8	1848.9	1389.5	1537.8	1505.8	1494.2	1770.4	1930.2	1892.5	1901.2	1994.2
45°	2177.3	1796.5	1273.3	1299.4	1415.7	1407.0	1662.8	1816.9	1790.7	1814.0	1909.9
47.5°	2066.9	1691.9	1235.5	1078.5	1319.8	1316.9	1543.6	1706.4	1691.9	1715.1	1816.9
50°	1915.7	1575.6	1232.6	924.4	1212.2	1223.8	1401.2	1598.8	1598.8	1619.2	1726.8
52.5°	1720.9	1433.2	1119.2	837.2	1087.2	1122.1	1276.2	1505.8	1511.6	1532.0	1627.9
55°	1543.6	1284.9	1037.8	770.4	939.0	1014.5	1154.1	1409.9	1421.5	1441.9	1529.1
57.5°	1380.8	1069.8	1020.4	691.9	802.3	875.0	1046.5	1316.9	1322.7	1340.1	1424.4
60°	1206.4	773.3	936.1	607.6	683.1	738.4	947.7	1206.4	1226.8	1238.4	1311.1
62.5°	1008.7	561.1	848.8	549.4	625.0	636.6	866.3	1101.8	1127.9	1136.6	1180.2
65°	718.0	470.9	720.9	500.0	564.0	566.9	779.1	994.2	1017.4	1032.0	1064.0
67.5°	485.5	383.7	549.4	453.5	517.4	520.4	694.8	869.2	901.2	912.8	933.1
70°	337.2	255.8	407.0	404.1	465.1	470.9	604.7	755.8	784.9	793.6	805.2
72.5°	247.1	206.4	337.2	363.4	409.9	415.7	511.6	627.9	657.0	665.7	671.5
75°	189.0	218.0	273.3	316.9	348.8	351.7	418.6	511.6	532.0	537.8	540.7
77.5°	151.2	203.5	200.6	255.8	284.9	279.1	328.5	395.4	412.8	412.8	412.8
80°	113.4	159.9	151.2	183.1	209.3	203.5	235.5	282.0	287.8	293.6	290.7
82.5°	84.3	101.7	101.7	116.3	139.5	133.7	157.0	183.1	183.1	183.1	189.0
85°	52.3	58.1	46.5	61.0	78.5	75.6	87.2	98.8	101.7	101.7	95.9
87.5°	32.0	26.2	14.5	23.3	34.9	34.9	40.7	43.6	40.7	40.7	40.7
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.7	14.7
92.5°	51.3	31.4	11.6	31.4	51.3	56.2	79.0	109.4	124.6	109.2	78.4
95°	100.4	64.1	27.9	64.1	100.4	109.5	194.4	307.7	364.2	325.0	246.6
97.5°	112.3	80.3	48.4	80.3	112.3	120.3	261.8	450.7	545.1	520.3	470.7
100°	122.0	93.0	64.1	93.0	122.0	129.3	286.4	495.9	600.7	602.5	606.1
102.5°	131.5	104.5	77.4	104.5	131.5	138.3	297.7	510.2	616.4	648.0	711.1
105°	145.9	123.1	100.2	123.1	145.9	151.6	306.0	511.7	614.6	685.4	826.9
107.5°	166.2	144.8	123.5	144.8	166.2	171.5	307.6	489.0	579.7	678.4	875.9
110°	177.7	158.4	139.1	158.4	177.7	182.6	305.2	468.8	550.6	661.0	881.7

TEST NUMBER: P933997

CATALOG NUMBER: SQ4-FA-025U-075D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	191.4	173.0	154.7	173.0	191.4	195.9	305.3	451.2	524.1	637.1	863.0
115°	211.8	194.9	177.9	194.9	211.8	216.1	308.1	430.9	492.3	601.2	818.8
117.5°	231.7	216.3	200.9	216.3	231.7	235.6	313.9	418.3	470.5	568.8	765.2
120°	243.3	228.8	214.2	228.8	243.3	246.9	318.5	414.0	461.7	551.5	731.0
122.5°	256.6	242.1	227.4	242.1	256.6	260.3	325.2	411.7	455.0	535.9	697.5
125°	274.2	260.9	247.5	260.9	274.2	277.5	334.3	410.0	447.8	516.4	653.7
127.5°	290.7	277.2	263.8	277.2	290.7	294.1	343.3	408.9	441.7	500.6	618.5
130°	301.6	287.0	272.5	287.0	301.6	305.1	349.9	409.5	439.3	491.9	596.8
132.5°	310.6	296.0	281.6	296.0	310.6	314.1	355.2	410.0	437.3	484.3	578.3
135°	321.3	308.1	295.0	308.1	321.3	324.6	361.0	409.6	433.8	473.2	551.8
137.5°	334.7	321.7	308.6	321.7	334.7	338.0	369.8	412.1	433.2	466.5	532.9
140°	344.1	332.0	320.0	332.0	344.1	347.1	375.1	412.5	431.2	459.9	517.3
142.5°	351.0	339.8	328.7	339.8	351.0	353.8	379.6	414.0	431.2	456.4	506.9
145°	361.5	351.8	342.2	351.8	361.5	364.0	385.4	414.0	428.3	448.9	490.2
147.5°	374.4	364.9	355.5	364.9	374.4	376.7	393.9	416.9	428.3	444.6	477.0
150°	381.3	372.8	364.2	372.8	381.3	383.4	398.4	418.3	428.3	442.1	469.5
152.5°	386.1	379.8	373.3	379.8	386.1	387.8	401.3	419.3	428.3	440.0	463.5
155°	396.2	391.4	386.6	391.4	396.2	397.4	407.7	421.4	428.3	437.6	456.3
157.5°	405.9	401.2	396.5	401.2	405.9	407.1	414.2	423.5	428.3	435.6	450.0
160°	410.6	406.9	403.3	406.9	410.6	411.4	417.1	424.5	428.3	434.5	446.9
162.5°	415.4	412.7	410.0	412.7	415.4	416.1	420.2	425.6	428.3	433.5	444.0
165°	422.2	419.7	417.3	419.7	422.2	422.8	424.6	427.0	428.3	432.1	439.5
167.5°	426.3	425.1	423.9	425.1	426.3	426.6	428.1	430.1	431.2	433.6	438.6
170°	430.6	429.5	428.3	429.5	430.6	430.9	431.0	431.1	431.2	433.6	438.6
172.5°	431.1	430.9	430.6	430.9	431.1	431.2	431.2	431.2	431.2	433.1	437.0
175°	433.8	433.8	433.8	433.8	433.8	433.8	432.9	431.8	431.2	432.5	434.9
177.5°	433.8	433.8	433.8	433.8	433.8	433.8	433.1	432.3	431.8	432.8	434.7
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8

TEST NUMBER: P933997

CATALOG NUMBER: SQ4-FA-025U-075D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8
2.5°	2965.2	2956.5	2968.1	2936.2	2968.1	2956.5	2965.2	2985.6	2968.1	2979.8	2991.4
5°	2601.9	2587.3	2540.7	2502.9	2540.7	2587.3	2601.9	2662.9	2692.0	2744.3	2814.1
7.5°	2325.6	2314.0	2302.3	2279.1	2302.3	2314.0	2325.6	2343.0	2372.1	2418.6	2471.0
10°	2264.6	2267.5	2284.9	2282.0	2284.9	2267.5	2264.6	2258.7	2250.0	2258.7	2290.7
12.5°	2421.5	2447.7	2543.6	2537.8	2543.6	2447.7	2421.5	2305.3	2226.8	2212.2	2218.0
15°	2601.9	2610.6	2630.9	2633.8	2630.9	2610.6	2601.9	2555.3	2319.8	2218.0	2186.1
17.5°	2619.3	2622.2	2636.7	2636.7	2636.7	2622.2	2619.3	2599.0	2520.4	2383.7	2203.5
20°	2604.8	2610.6	2639.7	2645.5	2639.7	2610.6	2604.8	2578.6	2534.9	2485.5	2348.9
22.5°	2599.0	2610.6	2633.8	2630.9	2633.8	2610.6	2599.0	2558.2	2520.4	2485.5	2430.3
25°	2569.9	2569.9	2572.8	2575.7	2572.8	2569.9	2569.9	2537.8	2462.2	2453.5	2421.5
27.5°	2508.7	2514.6	2532.0	2529.1	2532.0	2514.6	2508.7	2497.1	2415.7	2407.0	2383.7
30°	2453.5	2447.7	2433.2	2421.5	2433.2	2447.7	2453.5	2436.1	2354.7	2331.4	2337.2
32.5°	2360.5	2345.9	2331.4	2322.7	2331.4	2345.9	2360.5	2354.7	2293.6	2261.6	2267.5
35°	2250.0	2252.9	2250.0	2241.3	2250.0	2252.9	2250.0	2255.8	2218.0	2189.0	2186.1
37.5°	2171.5	2177.3	2174.4	2162.8	2174.4	2177.3	2171.5	2165.7	2113.4	2104.7	2110.5
40°	2090.1	2093.0	2090.1	2081.4	2090.1	2093.0	2090.1	2078.5	2005.8	2008.7	2029.1
42.5°	2011.6	2008.7	2000.0	1994.2	2000.0	2008.7	2011.6	1994.2	1901.2	1892.5	1930.2
45°	1921.5	1924.4	1907.0	1898.3	1907.0	1924.4	1921.5	1909.9	1814.0	1790.7	1816.9
47.5°	1831.4	1831.4	1816.9	1808.2	1816.9	1831.4	1831.4	1816.9	1715.1	1691.9	1706.4
50°	1735.5	1732.6	1712.2	1709.3	1712.2	1732.6	1735.5	1726.8	1619.2	1598.8	1598.8
52.5°	1625.0	1625.0	1627.9	1633.7	1627.9	1625.0	1625.0	1627.9	1532.0	1511.6	1505.8
55°	1529.1	1532.0	1552.3	1558.2	1552.3	1532.0	1529.1	1529.1	1441.9	1421.5	1409.9
57.5°	1430.2	1430.2	1444.8	1444.8	1444.8	1430.2	1430.2	1424.4	1340.1	1322.7	1316.9
60°	1316.9	1322.7	1334.3	1331.4	1334.3	1322.7	1316.9	1311.1	1238.4	1226.8	1206.4
62.5°	1197.7	1203.5	1206.4	1200.6	1206.4	1203.5	1197.7	1180.2	1136.6	1127.9	1101.8
65°	1072.7	1078.5	1081.4	1075.6	1081.4	1078.5	1072.7	1064.0	1032.0	1017.4	994.2
67.5°	944.8	941.9	939.0	950.6	939.0	941.9	944.8	933.1	912.8	901.2	869.2
70°	814.0	814.0	811.1	816.9	811.1	814.0	814.0	805.2	793.6	784.9	755.8
72.5°	674.4	671.5	683.1	674.4	683.1	671.5	674.4	671.5	665.7	657.0	627.9
75°	537.8	543.6	537.8	546.5	537.8	543.6	537.8	540.7	537.8	532.0	511.6
77.5°	409.9	415.7	409.9	409.9	409.9	415.7	409.9	412.8	412.8	412.8	395.4
80°	290.7	287.8	287.8	284.9	287.8	287.8	290.7	290.7	293.6	287.8	282.0
82.5°	186.0	183.1	183.1	189.0	183.1	183.1	186.0	189.0	183.1	183.1	183.1
85°	101.7	104.7	98.8	98.8	98.8	104.7	101.7	95.9	101.7	101.7	98.8
87.5°	37.8	34.9	34.9	34.9	34.9	34.9	37.8	40.7	40.7	40.7	43.6
90°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	19.7	22.1	19.0
92.5°	55.3	53.1	44.4	35.6	44.4	53.1	55.3	78.4	109.2	124.6	109.4
95°	187.8	181.1	154.5	127.8	154.5	181.1	187.8	246.6	325.0	364.2	307.7
97.5°	433.5	420.8	370.2	319.4	370.2	420.8	433.5	470.7	520.3	545.1	450.7
100°	608.8	593.7	533.3	472.9	533.3	593.7	608.8	606.1	602.5	600.7	495.9
102.5°	758.4	745.5	693.7	642.0	693.7	745.5	758.4	711.1	648.0	616.4	510.2
105°	933.1	926.2	898.4	870.5	898.4	926.2	933.1	826.9	685.4	614.6	511.7
107.5°	1024.0	1025.7	1032.5	1039.2	1032.5	1025.7	1024.0	875.9	678.4	579.7	489.0
110°	1047.3	1054.6	1083.5	1112.5	1083.5	1054.6	1047.3	881.7	661.0	550.6	468.8

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1032.5	1043.6	1088.1	1132.6	1088.1	1043.6	1032.5	863.0	637.1	524.1	451.2
115°	982.1	997.5	1059.2	1120.9	1059.2	997.5	982.1	818.8	601.2	492.3	430.9
117.5°	912.5	929.7	998.1	1066.5	998.1	929.7	912.5	765.2	568.8	470.5	418.3
120°	865.6	882.3	948.7	1015.2	948.7	882.3	865.6	731.0	551.5	461.7	414.0
122.5°	818.7	835.1	900.8	966.4	900.8	835.1	818.7	697.5	535.9	455.0	411.7
125°	756.7	771.8	832.2	892.6	832.2	771.8	756.7	653.7	516.4	447.8	410.0
127.5°	706.9	719.7	770.6	821.6	770.6	719.7	706.9	618.5	500.6	441.7	408.9
130°	675.5	687.3	734.4	781.5	734.4	687.3	675.5	596.8	491.9	439.3	409.5
132.5°	648.7	659.3	701.5	743.6	701.5	659.3	648.7	578.3	484.3	437.3	410.0
135°	610.9	620.0	656.3	692.6	656.3	620.0	610.9	551.8	473.2	433.8	409.6
137.5°	582.9	590.3	620.1	649.9	620.1	590.3	582.9	532.9	466.5	433.2	412.1
140°	560.5	567.4	595.3	623.1	595.3	567.4	560.5	517.3	459.9	431.2	412.5
142.5°	544.8	550.8	574.7	598.6	574.7	550.8	544.8	506.9	456.4	431.2	414.0
145°	521.1	525.7	543.8	561.9	543.8	525.7	521.1	490.2	448.9	428.3	414.0
147.5°	501.4	505.1	520.2	535.2	520.2	505.1	501.4	477.0	444.6	428.3	416.9
150°	490.0	493.0	505.2	517.3	505.2	493.0	490.0	469.5	442.1	428.3	418.3
152.5°	481.0	483.3	492.4	501.7	492.4	483.3	481.0	463.5	440.0	428.3	419.3
155°	470.3	471.8	477.8	483.9	477.8	471.8	470.3	456.3	437.6	428.3	421.4
157.5°	460.9	461.9	466.3	470.5	466.3	461.9	460.9	450.0	435.6	428.3	423.5
160°	456.2	456.8	459.3	461.7	459.3	456.8	456.2	446.9	434.5	428.3	424.5
162.5°	451.8	452.4	454.8	457.1	454.8	452.4	451.8	444.0	433.5	428.3	425.6
165°	445.2	445.7	448.3	450.7	448.3	445.7	445.2	439.5	432.1	428.3	427.0
167.5°	442.3	442.5	443.5	444.6	443.5	442.5	442.3	438.6	433.6	431.2	430.1
170°	442.3	442.3	442.3	442.3	442.3	442.3	442.3	438.6	433.6	431.2	431.1
172.5°	439.9	439.7	438.8	437.9	438.8	439.7	439.9	437.0	433.1	431.2	431.2
175°	436.7	436.7	436.7	436.7	436.7	436.7	436.7	434.9	432.5	431.2	431.8
177.5°	436.1	435.9	434.9	433.8	434.9	435.9	436.1	434.7	432.8	431.8	432.3
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8

TEST NUMBER: P933997

CATALOG NUMBER: SQ4-FA-025U-075D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3072.8	3072.8	3072.8	3072.8	3072.8
2.5°	3035.0	3049.5	3058.3	3069.9	3099.0
5°	2918.7	2974.0	2991.4	3035.0	3087.3
7.5°	2662.9	2831.5	2878.0	2982.7	3064.1
10°	2415.7	2584.4	2665.8	2912.9	3035.0
12.5°	2290.7	2389.6	2444.8	2790.8	2994.3
15°	2212.2	2282.0	2322.7	2628.0	2947.8
17.5°	2151.2	2200.6	2229.7	2468.0	2883.8
20°	2113.4	2136.6	2162.8	2351.8	2811.2
22.5°	2087.2	2072.7	2093.0	2270.4	2712.3
25°	2069.8	2014.6	2037.8	2206.4	2596.0
27.5°	2084.3	1962.2	1970.9	2148.3	2473.9
30°	2087.2	1898.3	1901.2	2087.2	2337.2
32.5°	2066.9	1831.4	1834.3	2011.6	2183.2
35°	2017.5	1752.9	1750.0	1924.4	1973.9
37.5°	1950.6	1668.6	1668.6	1828.5	1744.2
40°	1869.2	1584.3	1593.0	1703.5	1540.7
42.5°	1770.4	1494.2	1505.8	1537.8	1389.5
45°	1662.8	1407.0	1415.7	1299.4	1273.3
47.5°	1543.6	1316.9	1319.8	1078.5	1235.5
50°	1401.2	1223.8	1212.2	924.4	1232.6
52.5°	1276.2	1122.1	1087.2	837.2	1119.2
55°	1154.1	1014.5	939.0	770.4	1037.8
57.5°	1046.5	875.0	802.3	691.9	1020.4
60°	947.7	738.4	683.1	607.6	936.1
62.5°	866.3	636.6	625.0	549.4	848.8
65°	779.1	566.9	564.0	500.0	720.9
67.5°	694.8	520.4	517.4	453.5	549.4
70°	604.7	470.9	465.1	404.1	407.0
72.5°	511.6	415.7	409.9	363.4	337.2
75°	418.6	351.7	348.8	316.9	273.3
77.5°	328.5	279.1	284.9	255.8	200.6
80°	235.5	203.5	209.3	183.1	151.2
82.5°	157.0	133.7	139.5	116.3	101.7
85°	87.2	75.6	78.5	61.0	46.5
87.5°	40.7	34.9	34.9	23.3	14.5
90°	12.8	8.1	7.6	5.2	2.9
92.5°	79.0	56.2	51.3	31.4	11.6
95°	194.4	109.5	100.4	64.1	27.9
97.5°	261.8	120.3	112.3	80.3	48.4
100°	286.4	129.3	122.0	93.0	64.1
102.5°	297.7	138.3	131.5	104.5	77.4
105°	306.0	151.6	145.9	123.1	100.2
107.5°	307.6	171.5	166.2	144.8	123.5
110°	305.2	182.6	177.7	158.4	139.1

TEST NUMBER: P933997

CATALOG NUMBER: SQ4-FA-025U-075D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	305.3	195.9	191.4	173.0	154.7
115°	308.1	216.1	211.8	194.9	177.9
117.5°	313.9	235.6	231.7	216.3	200.9
120°	318.5	246.9	243.3	228.8	214.2
122.5°	325.2	260.3	256.6	242.1	227.4
125°	334.3	277.5	274.2	260.9	247.5
127.5°	343.3	294.1	290.7	277.2	263.8
130°	349.9	305.1	301.6	287.0	272.5
132.5°	355.2	314.1	310.6	296.0	281.6
135°	361.0	324.6	321.3	308.1	295.0
137.5°	369.8	338.0	334.7	321.7	308.6
140°	375.1	347.1	344.1	332.0	320.0
142.5°	379.6	353.8	351.0	339.8	328.7
145°	385.4	364.0	361.5	351.8	342.2
147.5°	393.9	376.7	374.4	364.9	355.5
150°	398.4	383.4	381.3	372.8	364.2
152.5°	401.3	387.8	386.1	379.8	373.3
155°	407.7	397.4	396.2	391.4	386.6
157.5°	414.2	407.1	405.9	401.2	396.5
160°	417.1	411.4	410.6	406.9	403.3
162.5°	420.2	416.1	415.4	412.7	410.0
165°	424.6	422.8	422.2	419.7	417.3
167.5°	428.1	426.6	426.3	425.1	423.9
170°	431.0	430.9	430.6	429.5	428.3
172.5°	431.2	431.2	431.1	430.9	430.6
175°	432.9	433.8	433.8	433.8	433.8
177.5°	433.1	433.8	433.8	433.8	433.8
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)