

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: P934005

Luminaire Tested: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934005
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-B50-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

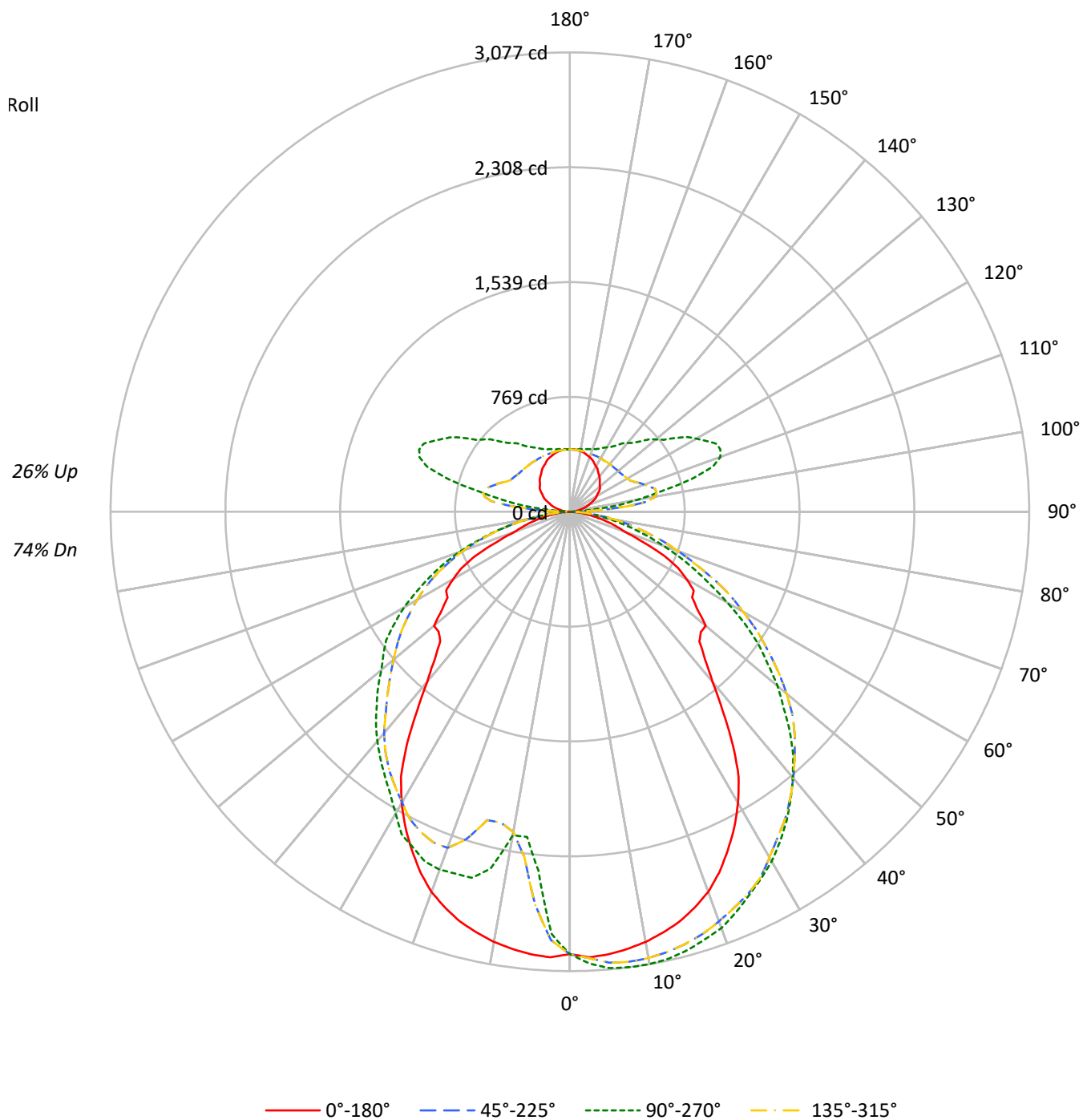
Lumens per Lamp: N/A
Luminaire Lumens: 10391.6 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

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°	9161	9161	9161	9161
5°	9233	9248	9233	7271
10°	9175	9109	9175	6513
15°	9078	8912	9078	7442
20°	8892	8678	8892	7457
25°	8507	8337	8507	7299
30°	8008	8054	8008	6952
35°	7142	7696	7142	6571
40°	5955	7274	5955	6283
45°	5324	6781	5324	5951
50°	5660	6192	5660	5619
55°	5331	5558	5331	5427
60°	5502	4721	5502	4970
65°	4997	3902	4997	4362
70°	3468	3110	3468	3657
75°	3053	2299	3053	2753
80°	2478	1520	2478	1655
85°	1452	805	1452	684

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 8155 cd/sqm

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	2.6
10°-20°	759.1	7.3
20°-30°	1173.4	11.3
30°-40°	1400.8	13.5
40°-50°	1409.0	13.6
50°-60°	1226.0	11.8
60°-70°	869.2	8.4
70°-80°	459.9	4.4
80°-90°	116.1	1.1
90°-100°	203.8	2.0
100°-110°	535.9	5.2
110°-120°	555.7	5.3
120°-130°	445.7	4.3
130°-140°	349.7	3.4
140°-150°	268.4	2.6
150°-160°	193.3	1.9
160°-170°	118.3	1.1
170°-180°	40.0	0.4
0°-30°	2199.9	21.2
0°-40°	3600.6	34.6
0°-60°	6235.6	60.0
0°-90°	7680.9	73.9
90°-120°	1295.4	12.5
90°-150°	2359.2	22.7
90°-180°	2711.0	26.1
0°-180°	10391.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2962	2962	2962	2962	2962	
5°	2976	3068	2976	2412	2976	282
15°	2841	3040	2841	2539	2841	799
25°	2502	2836	2502	2483	2502	1149
35°	1903	2530	1903	2160	1903	1177
45°	1227	2085	1227	1830	1227	983
55°	1000	1538	1000	1502	1000	919
65°	695	928	695	1037	695	664
75°	263	440	263	527	263	277
85°	45	112	45	95	45	61
90°	3	11	3	11	3	4
95°	27	123	27	123	27	30
105°	97	839	97	839	97	102
115°	172	1080	172	1080	172	169
125°	238	860	238	860	238	212
135°	284	668	284	668	284	220
145°	330	542	330	542	330	207
155°	373	466	373	466	373	171
165°	402	434	402	434	402	114
175°	418	421	418	421	418	40
180°	418	418	418	418	418	

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	2987.0	2987.0	3003.8	3009.4	3009.4	3001.0	2992.6	3001.0	3026.3	3034.7	3031.9
5°	2975.8	2998.2	3029.1	3034.7	3040.3	3037.5	3031.9	3037.5	3065.5	3071.1	3073.9
7.5°	2953.4	2995.4	3034.7	3043.1	3051.5	3043.1	3040.3	3045.9	3073.9	3079.5	3079.5
10°	2925.4	2984.2	3029.1	3034.7	3043.1	3034.7	3034.7	3045.9	3073.9	3079.5	3082.3
12.5°	2886.2	2967.4	3009.4	3015.0	3026.3	3023.5	3020.6	3031.9	3059.9	3065.5	3065.5
15°	2841.3	2936.6	2975.8	2981.4	3001.0	2995.4	2995.4	3006.6	3037.5	3045.9	3043.1
17.5°	2779.7	2897.4	2942.2	2950.6	2964.6	2961.8	2964.6	2975.8	3003.8	3009.4	3012.2
20°	2709.6	2844.1	2897.4	2905.8	2919.8	2919.8	2919.8	2933.8	2961.8	2973.0	2973.0
22.5°	2614.4	2788.1	2844.1	2849.7	2866.5	2866.5	2872.1	2891.8	2917.0	2919.8	2919.8
25°	2502.3	2726.4	2774.1	2790.9	2807.7	2816.1	2824.5	2835.7	2844.1	2841.3	2844.1
27.5°	2384.5	2648.0	2709.6	2720.8	2743.3	2751.7	2762.9	2765.7	2768.5	2776.9	2771.3
30°	2252.8	2538.7	2631.2	2642.4	2678.8	2684.4	2673.2	2678.8	2692.8	2698.4	2704.0
32.5°	2104.3	2376.1	2549.9	2575.1	2608.8	2591.9	2589.1	2597.5	2620.0	2620.0	2625.6
35°	1902.6	2250.0	2474.3	2496.7	2521.9	2502.3	2513.5	2516.3	2530.3	2538.7	2535.9
37.5°	1681.2	2140.7	2395.7	2412.5	2432.1	2406.9	2423.7	2432.1	2443.3	2437.7	2437.7
40°	1485.1	1969.8	2303.2	2314.5	2331.3	2311.6	2328.5	2334.1	2339.7	2334.1	2331.3
42.5°	1339.4	1782.1	2205.2	2219.2	2208.0	2222.0	2227.6	2238.8	2230.4	2219.2	2219.2
45°	1227.3	1731.6	2098.7	2115.5	2098.7	2121.1	2129.5	2129.5	2104.3	2098.7	2095.9
47.5°	1190.9	1630.8	1992.2	1992.2	1983.8	2011.8	2025.8	2006.2	1981.0	1972.6	1972.6
50°	1188.0	1518.7	1846.5	1835.3	1874.5	1908.2	1894.2	1874.5	1854.9	1824.1	1824.1
52.5°	1078.8	1381.4	1658.8	1700.8	1762.5	1782.1	1759.7	1740.0	1706.4	1692.4	1681.2
55°	1000.3	1238.5	1487.9	1571.9	1636.4	1661.6	1619.6	1599.9	1549.5	1541.1	1535.5
57.5°	983.5	1031.1	1331.0	1437.4	1515.9	1513.1	1487.9	1451.4	1409.4	1401.0	1398.2
60°	902.2	745.3	1162.8	1288.9	1370.2	1361.8	1339.4	1305.7	1266.5	1260.9	1255.3
62.5°	818.2	540.8	972.3	1115.2	1230.1	1227.3	1207.7	1157.2	1129.2	1115.2	1104.0
65°	694.9	453.9	692.1	927.5	1092.8	1098.4	1056.4	1019.9	989.1	972.3	969.5
67.5°	529.6	369.9	467.9	773.4	961.1	955.5	902.2	885.4	846.2	837.8	821.0
70°	392.3	246.6	325.0	627.6	832.2	818.2	776.2	756.5	720.1	700.5	689.3
72.5°	325.0	198.9	238.2	487.5	700.5	683.7	647.3	624.8	594.0	577.2	566.0
75°	263.4	210.2	182.1	361.5	568.8	557.6	524.0	501.6	476.3	453.9	456.7
77.5°	193.3	196.1	145.7	266.2	451.1	434.3	414.7	386.7	375.5	353.1	353.1
80°	145.7	154.1	109.3	182.1	325.0	325.0	308.2	288.6	269.0	257.8	257.8
82.5°	98.1	98.1	81.3	114.9	221.4	213.0	201.7	196.1	184.9	179.3	179.3
85°	44.8	56.0	50.4	70.0	120.5	126.1	126.1	120.5	117.7	112.1	114.9
87.5°	14.0	25.2	30.8	39.2	61.6	64.4	67.2	67.2	67.2	70.0	70.0
90°	2.8	5.0	7.3	7.8	12.3	18.3	21.3	19.0	14.2	10.6	10.6
92.5°	11.2	30.3	49.4	54.2	76.1	105.4	120.1	105.3	75.6	53.3	51.2
95°	26.9	61.8	96.8	105.5	187.4	296.5	351.1	313.3	237.7	181.0	174.6
97.5°	46.6	77.4	108.3	115.9	252.4	434.4	525.4	501.5	453.7	417.9	405.6
100°	61.7	89.7	117.6	124.6	276.1	478.0	579.0	580.8	584.2	586.8	572.3
102.5°	74.6	100.7	126.7	133.3	286.9	491.8	594.1	624.6	685.4	731.0	718.5
105°	96.6	118.6	140.7	146.2	295.0	493.2	592.4	660.6	797.1	899.4	892.7
107.5°	119.0	139.5	160.2	165.3	296.5	471.3	558.7	653.9	844.2	987.1	988.6
110°	134.1	152.7	171.3	176.0	294.2	451.9	530.7	637.1	849.8	1009.5	1016.5

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.1	166.7	184.5	188.9	294.3	434.9	505.2	614.1	831.8	995.2	1005.9
115°	171.5	187.8	204.2	208.3	297.0	415.3	474.6	579.5	789.2	946.6	961.5
117.5°	193.6	208.5	223.3	227.1	302.5	403.2	453.6	548.3	737.6	879.5	896.1
120°	206.5	220.5	234.5	238.0	307.0	399.0	445.1	531.5	704.6	834.3	850.4
122.5°	219.2	233.3	247.3	250.9	313.5	396.9	438.6	516.5	672.3	789.1	804.9
125°	238.5	251.4	264.3	267.5	322.2	395.2	431.6	497.7	630.1	729.4	743.9
127.5°	254.2	267.2	280.2	283.5	330.9	394.1	425.7	482.5	596.2	681.4	693.7
130°	262.6	276.7	290.7	294.1	337.3	394.7	423.5	474.1	575.3	651.1	662.5
132.5°	271.4	285.3	299.3	302.8	342.4	395.2	421.5	466.8	557.4	625.3	635.5
135°	284.3	297.0	309.7	312.9	348.0	394.8	418.2	456.1	531.9	588.8	597.6
137.5°	297.5	310.1	322.6	325.8	356.4	397.2	417.6	449.6	513.7	561.8	569.0
140°	308.4	320.0	331.7	334.6	361.6	397.6	415.6	443.3	498.7	540.2	547.0
142.5°	316.8	327.6	338.3	341.0	365.8	399.0	415.6	439.9	488.6	525.1	530.9
145°	329.8	339.1	348.5	350.8	371.5	399.0	412.8	432.7	472.5	502.3	506.7
147.5°	342.7	351.7	360.9	363.1	379.7	401.8	412.8	428.5	459.8	483.3	486.9
150°	351.1	359.3	367.5	369.6	384.0	403.2	412.8	426.1	452.5	472.3	475.2
152.5°	359.8	366.0	372.2	373.8	386.8	404.1	412.8	424.1	446.7	463.6	465.9
155°	372.7	377.2	381.9	383.0	392.9	406.2	412.8	421.8	439.8	453.3	454.8
157.5°	382.2	386.7	391.3	392.4	399.2	408.3	412.8	419.8	433.7	444.2	445.2
160°	388.7	392.2	395.7	396.6	402.0	409.2	412.8	418.8	430.8	439.7	440.3
162.5°	395.2	397.8	400.4	401.1	405.0	410.2	412.8	417.9	428.0	435.5	436.1
165°	402.2	404.5	406.9	407.5	409.3	411.6	412.8	416.5	423.7	429.1	429.6
167.5°	408.6	409.7	410.9	411.1	412.6	414.6	415.6	418.0	422.7	426.3	426.6
170°	412.8	413.9	415.1	415.3	415.4	415.5	415.6	418.0	422.7	426.3	426.3
172.5°	415.1	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2	424.0	423.8
175°	418.2	418.2	418.2	418.2	417.3	416.2	415.6	416.8	419.2	421.0	421.0
177.5°	418.2	418.2	418.2	418.2	417.5	416.7	416.2	417.1	419.0	420.4	420.1
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	3037.5	3029.1	3037.5	3031.9	3034.7	3026.3	3001.0	2992.6	3001.0	3009.4	3009.4
5°	3073.9	3068.3	3073.9	3073.9	3071.1	3065.5	3037.5	3031.9	3037.5	3040.3	3034.7
7.5°	3085.1	3076.7	3085.1	3079.5	3079.5	3073.9	3045.9	3040.3	3043.1	3051.5	3043.1
10°	3085.1	3076.7	3085.1	3082.3	3079.5	3073.9	3045.9	3034.7	3034.7	3043.1	3034.7
12.5°	3071.1	3065.5	3071.1	3065.5	3065.5	3059.9	3031.9	3020.6	3023.5	3026.3	3015.0
15°	3048.7	3040.3	3048.7	3043.1	3045.9	3037.5	3006.6	2995.4	2995.4	3001.0	2981.4
17.5°	3015.0	3003.8	3015.0	3012.2	3009.4	3003.8	2975.8	2964.6	2961.8	2964.6	2950.6
20°	2975.8	2967.4	2975.8	2973.0	2973.0	2961.8	2933.8	2919.8	2919.8	2919.8	2905.8
22.5°	2914.2	2905.8	2914.2	2919.8	2919.8	2917.0	2891.8	2872.1	2866.5	2866.5	2849.7
25°	2844.1	2835.7	2844.1	2844.1	2841.3	2844.1	2835.7	2824.5	2816.1	2807.7	2790.9
27.5°	2776.9	2771.3	2776.9	2771.3	2776.9	2768.5	2765.7	2762.9	2751.7	2743.3	2720.8
30°	2709.6	2704.0	2709.6	2704.0	2698.4	2692.8	2678.8	2673.2	2684.4	2678.8	2642.4
32.5°	2625.6	2620.0	2625.6	2625.6	2620.0	2620.0	2597.5	2589.1	2591.9	2608.8	2575.1
35°	2538.7	2530.3	2538.7	2535.9	2538.7	2530.3	2516.3	2513.5	2502.3	2521.9	2496.7
37.5°	2437.7	2429.3	2437.7	2437.7	2437.7	2443.3	2432.1	2423.7	2406.9	2432.1	2412.5
40°	2334.1	2322.9	2334.1	2331.3	2334.1	2339.7	2334.1	2328.5	2311.6	2331.3	2314.5
42.5°	2216.4	2213.6	2216.4	2219.2	2219.2	2230.4	2238.8	2227.6	2222.0	2208.0	2219.2
45°	2090.3	2084.7	2090.3	2095.9	2098.7	2104.3	2129.5	2129.5	2121.1	2098.7	2115.5
47.5°	1955.8	1941.8	1955.8	1972.6	1972.6	1981.0	2006.2	2025.8	2011.8	1983.8	1992.2
50°	1812.9	1815.7	1812.9	1824.1	1824.1	1854.9	1874.5	1894.2	1908.2	1874.5	1835.3
52.5°	1672.8	1670.0	1672.8	1681.2	1692.4	1706.4	1740.0	1759.7	1782.1	1762.5	1700.8
55°	1532.7	1538.3	1532.7	1535.5	1541.1	1549.5	1599.9	1619.6	1661.6	1636.4	1571.9
57.5°	1392.6	1384.2	1392.6	1398.2	1401.0	1409.4	1451.4	1487.9	1513.1	1515.9	1437.4
60°	1230.1	1218.9	1230.1	1255.3	1260.9	1266.5	1305.7	1339.4	1361.8	1370.2	1288.9
62.5°	1087.2	1067.6	1087.2	1104.0	1115.2	1129.2	1157.2	1207.7	1227.3	1230.1	1115.2
65°	935.9	927.5	935.9	969.5	972.3	989.1	1019.9	1056.4	1098.4	1092.8	927.5
67.5°	798.6	798.6	798.6	821.0	837.8	846.2	885.4	902.2	955.5	961.1	773.4
70°	672.5	669.7	672.5	689.3	700.5	720.1	756.5	776.2	818.2	832.2	627.6
72.5°	552.0	549.2	552.0	566.0	577.2	594.0	624.8	647.3	683.7	700.5	487.5
75°	445.5	439.9	445.5	456.7	453.9	476.3	501.6	524.0	557.6	568.8	361.5
77.5°	341.8	341.8	341.8	353.1	353.1	375.5	386.7	414.7	434.3	451.1	266.2
80°	255.0	252.2	255.0	257.8	257.8	269.0	288.6	308.2	325.0	325.0	182.1
82.5°	179.3	173.7	179.3	179.3	179.3	184.9	196.1	201.7	213.0	221.4	114.9
85°	112.1	112.1	112.1	114.9	112.1	117.7	120.5	126.1	126.1	120.5	70.0
87.5°	72.9	70.0	72.9	70.0	70.0	67.2	67.2	67.2	64.4	61.6	39.2
90°	10.6	10.6	10.6	10.6	10.6	14.2	19.0	21.3	18.3	12.3	7.8
92.5°	42.8	34.3	42.8	51.2	53.3	75.6	105.3	120.1	105.4	76.1	54.2
95°	148.9	123.2	148.9	174.6	181.0	237.7	313.3	351.1	296.5	187.4	105.5
97.5°	356.8	307.8	356.8	405.6	417.9	453.7	501.5	525.4	434.4	252.4	115.9
100°	514.1	455.8	514.1	572.3	586.8	584.2	580.8	579.0	478.0	276.1	124.6
102.5°	668.7	618.8	668.7	718.5	731.0	685.4	624.6	594.1	491.8	286.9	133.3
105°	865.9	839.1	865.9	892.7	899.4	797.1	660.6	592.4	493.2	295.0	146.2
107.5°	995.2	1001.6	995.2	988.6	987.1	844.2	653.9	558.7	471.3	296.5	165.3
110°	1044.4	1072.3	1044.4	1016.5	1009.5	849.8	637.1	530.7	451.9	294.2	176.0

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1048.8	1091.7	1048.8	1005.9	995.2	831.8	614.1	505.2	434.9	294.3	188.9
115°	1021.0	1080.5	1021.0	961.5	946.6	789.2	579.5	474.6	415.3	297.0	208.3
117.5°	962.0	1028.0	962.0	896.1	879.5	737.6	548.3	453.6	403.2	302.5	227.1
120°	914.5	978.6	914.5	850.4	834.3	704.6	531.5	445.1	399.0	307.0	238.0
122.5°	868.2	931.5	868.2	804.9	789.1	672.3	516.5	438.6	396.9	313.5	250.9
125°	802.1	860.4	802.1	743.9	729.4	630.1	497.7	431.6	395.2	322.2	267.5
127.5°	742.8	791.9	742.8	693.7	681.4	596.2	482.5	425.7	394.1	330.9	283.5
130°	707.9	753.3	707.9	662.5	651.1	575.3	474.1	423.5	394.7	337.3	294.1
132.5°	676.1	716.8	676.1	635.5	625.3	557.4	466.8	421.5	395.2	342.4	302.8
135°	632.6	667.6	632.6	597.6	588.8	531.9	456.1	418.2	394.8	348.0	312.9
137.5°	597.7	626.4	597.7	569.0	561.8	513.7	449.6	417.6	397.2	356.4	325.8
140°	573.8	600.6	573.8	547.0	540.2	498.7	443.3	415.6	397.6	361.6	334.6
142.5°	554.0	577.0	554.0	530.9	525.1	488.6	439.9	415.6	399.0	365.8	341.0
145°	524.2	541.6	524.2	506.7	502.3	472.5	432.7	412.8	399.0	371.5	350.8
147.5°	501.4	515.8	501.4	486.9	483.3	459.8	428.5	412.8	401.8	379.7	363.1
150°	487.0	498.7	487.0	475.2	472.3	452.5	426.1	412.8	403.2	384.0	369.6
152.5°	474.7	483.5	474.7	465.9	463.6	446.7	424.1	412.8	404.1	386.8	373.8
155°	460.6	466.4	460.6	454.8	453.3	439.8	421.8	412.8	406.2	392.9	383.0
157.5°	449.4	453.6	449.4	445.2	444.2	433.7	419.8	412.8	408.3	399.2	392.4
160°	442.7	445.1	442.7	440.3	439.7	430.8	418.8	412.8	409.2	402.0	396.6
162.5°	438.3	440.6	438.3	436.1	435.5	428.0	417.9	412.8	410.2	405.0	401.1
165°	432.1	434.4	432.1	429.6	429.1	423.7	416.5	412.8	411.6	409.3	407.5
167.5°	427.5	428.5	427.5	426.6	426.3	422.7	418.0	415.6	414.6	412.6	411.1
170°	426.3	426.3	426.3	426.3	426.3	422.7	418.0	415.6	415.5	415.4	415.3
172.5°	422.9	422.1	422.9	423.8	424.0	421.2	417.5	415.6	415.6	415.6	415.6
175°	421.0	421.0	421.0	421.0	421.0	419.2	416.8	415.6	416.2	417.3	418.2
177.5°	419.2	418.2	419.2	420.1	420.4	419.0	417.1	416.2	416.7	417.5	418.2
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	3003.8	2987.0	2987.0	2959.0	2947.8	2939.4	2925.4	2883.4	2872.1	2860.9	2877.7
5°	3029.1	2998.2	2975.8	2925.4	2883.4	2866.5	2813.3	2712.4	2645.2	2594.7	2566.7
7.5°	3034.7	2995.4	2953.4	2874.9	2774.1	2729.2	2566.7	2381.7	2331.3	2286.4	2258.4
10°	3029.1	2984.2	2925.4	2807.7	2569.5	2491.1	2328.5	2208.0	2177.2	2168.7	2177.2
12.5°	3009.4	2967.4	2886.2	2690.0	2356.5	2303.2	2208.0	2137.9	2132.3	2146.3	2222.0
15°	2975.8	2936.6	2841.3	2533.1	2238.8	2199.6	2132.3	2107.1	2137.9	2236.0	2463.0
17.5°	2942.2	2897.4	2779.7	2378.9	2149.1	2121.1	2073.5	2123.9	2297.6	2429.3	2505.1
20°	2897.4	2844.1	2709.6	2266.8	2084.7	2059.5	2037.1	2264.0	2395.7	2443.3	2485.5
22.5°	2844.1	2788.1	2614.4	2188.4	2017.4	1997.8	2011.8	2342.5	2395.7	2429.3	2465.8
25°	2774.1	2726.4	2502.3	2126.7	1964.2	1941.8	1995.0	2334.1	2364.9	2373.3	2446.1
27.5°	2709.6	2648.0	2384.5	2070.7	1899.8	1891.4	2009.0	2297.6	2320.1	2328.5	2406.9
30°	2631.2	2538.7	2252.8	2011.8	1832.5	1829.7	2011.8	2252.8	2247.2	2269.6	2348.1
32.5°	2549.9	2376.1	2104.3	1939.0	1768.1	1765.3	1992.2	2185.6	2180.0	2210.8	2269.6
35°	2474.3	2250.0	1902.6	1854.9	1686.8	1689.6	1944.6	2107.1	2109.9	2137.9	2174.4
37.5°	2395.7	2140.7	1681.2	1762.5	1608.3	1608.3	1880.1	2034.3	2028.6	2037.1	2087.5
40°	2303.2	1969.8	1485.1	1642.0	1535.5	1527.1	1801.7	1955.8	1936.2	1933.4	2003.4
42.5°	2205.2	1782.1	1339.4	1482.3	1451.4	1440.2	1706.4	1860.5	1824.1	1832.5	1922.2
45°	2098.7	1731.6	1227.3	1252.5	1364.6	1356.2	1602.7	1751.2	1726.0	1748.4	1840.9
47.5°	1992.2	1630.8	1190.9	1039.5	1272.1	1269.3	1487.9	1644.8	1630.8	1653.2	1751.2
50°	1846.5	1518.7	1188.0	891.0	1168.4	1179.6	1350.6	1541.1	1541.1	1560.7	1664.4
52.5°	1658.8	1381.4	1078.8	807.0	1047.9	1081.6	1230.1	1451.4	1457.0	1476.7	1569.1
55°	1487.9	1238.5	1000.3	742.5	905.0	977.9	1112.4	1359.0	1370.2	1389.8	1473.9
57.5°	1331.0	1031.1	983.5	666.9	773.4	843.4	1008.7	1269.3	1274.9	1291.7	1373.0
60°	1162.8	745.3	902.2	585.6	658.5	711.7	913.5	1162.8	1182.4	1193.7	1263.7
62.5°	972.3	540.8	818.2	529.6	602.4	613.6	835.0	1062.0	1087.2	1095.6	1137.6
65°	692.1	453.9	694.9	481.9	543.6	546.4	750.9	958.3	980.7	994.7	1025.5
67.5°	467.9	369.9	529.6	437.1	498.8	501.6	669.7	837.8	868.6	879.8	899.4
70°	325.0	246.6	392.3	389.5	448.3	453.9	582.8	728.5	756.5	764.9	776.2
72.5°	238.2	198.9	325.0	350.2	395.1	400.7	493.2	605.2	633.3	641.7	647.3
75°	182.1	210.2	263.4	305.4	336.2	339.0	403.5	493.2	512.8	518.4	521.2
77.5°	145.7	196.1	193.3	246.6	274.6	269.0	316.6	381.1	397.9	397.9	397.9
80°	109.3	154.1	145.7	176.5	201.7	196.1	227.0	271.8	277.4	283.0	280.2
82.5°	81.3	98.1	98.1	112.1	134.5	128.9	151.3	176.5	176.5	176.5	182.1
85°	50.4	56.0	44.8	58.8	75.7	72.9	84.1	95.3	98.1	98.1	92.5
87.5°	30.8	25.2	14.0	22.4	33.6	33.6	39.2	42.0	39.2	39.2	39.2
90°	7.3	5.0	2.8	5.0	7.3	7.8	12.3	18.3	21.3	19.0	14.2
92.5°	49.4	30.3	11.2	30.3	49.4	54.2	76.1	105.4	120.1	105.3	75.6
95°	96.8	61.8	26.9	61.8	96.8	105.5	187.4	296.5	351.1	313.3	237.7
97.5°	108.3	77.4	46.6	77.4	108.3	115.9	252.4	434.4	525.4	501.5	453.7
100°	117.6	89.7	61.7	89.7	117.6	124.6	276.1	478.0	579.0	580.8	584.2
102.5°	126.7	100.7	74.6	100.7	126.7	133.3	286.9	491.8	594.1	624.6	685.4
105°	140.7	118.6	96.6	118.6	140.7	146.2	295.0	493.2	592.4	660.6	797.1
107.5°	160.2	139.5	119.0	139.5	160.2	165.3	296.5	471.3	558.7	653.9	844.2
110°	171.3	152.7	134.1	152.7	171.3	176.0	294.2	451.9	530.7	637.1	849.8

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	184.5	166.7	149.1	166.7	184.5	188.9	294.3	434.9	505.2	614.1	831.8
115°	204.2	187.8	171.5	187.8	204.2	208.3	297.0	415.3	474.6	579.5	789.2
117.5°	223.3	208.5	193.6	208.5	223.3	227.1	302.5	403.2	453.6	548.3	737.6
120°	234.5	220.5	206.5	220.5	234.5	238.0	307.0	399.0	445.1	531.5	704.6
122.5°	247.3	233.3	219.2	233.3	247.3	250.9	313.5	396.9	438.6	516.5	672.3
125°	264.3	251.4	238.5	251.4	264.3	267.5	322.2	395.2	431.6	497.7	630.1
127.5°	280.2	267.2	254.2	267.2	280.2	283.5	330.9	394.1	425.7	482.5	596.2
130°	290.7	276.7	262.6	276.7	290.7	294.1	337.3	394.7	423.5	474.1	575.3
132.5°	299.3	285.3	271.4	285.3	299.3	302.8	342.4	395.2	421.5	466.8	557.4
135°	309.7	297.0	284.3	297.0	309.7	312.9	348.0	394.8	418.2	456.1	531.9
137.5°	322.6	310.1	297.5	310.1	322.6	325.8	356.4	397.2	417.6	449.6	513.7
140°	331.7	320.0	308.4	320.0	331.7	334.6	361.6	397.6	415.6	443.3	498.7
142.5°	338.3	327.6	316.8	327.6	338.3	341.0	365.8	399.0	415.6	439.9	488.6
145°	348.5	339.1	329.8	339.1	348.5	350.8	371.5	399.0	412.8	432.7	472.5
147.5°	360.9	351.7	342.7	351.7	360.9	363.1	379.7	401.8	412.8	428.5	459.8
150°	367.5	359.3	351.1	359.3	367.5	369.6	384.0	403.2	412.8	426.1	452.5
152.5°	372.2	366.0	359.8	366.0	372.2	373.8	386.8	404.1	412.8	424.1	446.7
155°	381.9	377.2	372.7	377.2	381.9	383.0	392.9	406.2	412.8	421.8	439.8
157.5°	391.3	386.7	382.2	386.7	391.3	392.4	399.2	408.3	412.8	419.8	433.7
160°	395.7	392.2	388.7	392.2	395.7	396.6	402.0	409.2	412.8	418.8	430.8
162.5°	400.4	397.8	395.2	397.8	400.4	401.1	405.0	410.2	412.8	417.9	428.0
165°	406.9	404.5	402.2	404.5	406.9	407.5	409.3	411.6	412.8	416.5	423.7
167.5°	410.9	409.7	408.6	409.7	410.9	411.1	412.6	414.6	415.6	418.0	422.7
170°	415.1	413.9	412.8	413.9	415.1	415.3	415.4	415.5	415.6	418.0	422.7
172.5°	415.5	415.3	415.1	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2
175°	418.2	418.2	418.2	418.2	418.2	418.2	417.3	416.2	415.6	416.8	419.2
177.5°	418.2	418.2	418.2	418.2	418.2	418.2	417.5	416.7	416.2	417.1	419.0
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	2858.1	2849.7	2860.9	2830.1	2860.9	2849.7	2858.1	2877.7	2860.9	2872.1	2883.4
5°	2507.9	2493.9	2448.9	2412.5	2448.9	2493.9	2507.9	2566.7	2594.7	2645.2	2712.4
7.5°	2241.6	2230.4	2219.2	2196.8	2219.2	2230.4	2241.6	2258.4	2286.4	2331.3	2381.7
10°	2182.8	2185.6	2202.4	2199.6	2202.4	2185.6	2182.8	2177.2	2168.7	2177.2	2208.0
12.5°	2334.1	2359.3	2451.8	2446.1	2451.8	2359.3	2334.1	2222.0	2146.3	2132.3	2137.9
15°	2507.9	2516.3	2535.9	2538.7	2535.9	2516.3	2507.9	2463.0	2236.0	2137.9	2107.1
17.5°	2524.7	2527.5	2541.5	2541.5	2541.5	2527.5	2524.7	2505.1	2429.3	2297.6	2123.9
20°	2510.7	2516.3	2544.3	2549.9	2544.3	2516.3	2510.7	2485.5	2443.3	2395.7	2264.0
22.5°	2505.1	2516.3	2538.7	2535.9	2538.7	2516.3	2505.1	2465.8	2429.3	2395.7	2342.5
25°	2477.1	2477.1	2479.9	2482.7	2479.9	2477.1	2477.1	2446.1	2373.3	2364.9	2334.1
27.5°	2418.1	2423.7	2440.5	2437.7	2440.5	2423.7	2418.1	2406.9	2328.5	2320.1	2297.6
30°	2364.9	2359.3	2345.3	2334.1	2345.3	2359.3	2364.9	2348.1	2269.6	2247.2	2252.8
32.5°	2275.2	2261.2	2247.2	2238.8	2247.2	2261.2	2275.2	2269.6	2210.8	2180.0	2185.6
35°	2168.7	2171.6	2168.7	2160.3	2168.7	2171.6	2168.7	2174.4	2137.9	2109.9	2107.1
37.5°	2093.1	2098.7	2095.9	2084.7	2095.9	2098.7	2093.1	2087.5	2037.1	2028.6	2034.3
40°	2014.6	2017.4	2014.6	2006.2	2014.6	2017.4	2014.6	2003.4	1933.4	1936.2	1955.8
42.5°	1939.0	1936.2	1927.8	1922.2	1927.8	1936.2	1939.0	1922.2	1832.5	1824.1	1860.5
45°	1852.1	1854.9	1838.1	1829.7	1838.1	1854.9	1852.1	1840.9	1748.4	1726.0	1751.2
47.5°	1765.3	1765.3	1751.2	1742.8	1751.2	1765.3	1765.3	1751.2	1653.2	1630.8	1644.8
50°	1672.8	1670.0	1650.4	1647.6	1650.4	1670.0	1672.8	1664.4	1560.7	1541.1	1541.1
52.5°	1566.3	1566.3	1569.1	1574.7	1569.1	1566.3	1566.3	1569.1	1476.7	1457.0	1451.4
55°	1473.9	1476.7	1496.3	1501.9	1496.3	1476.7	1473.9	1473.9	1389.8	1370.2	1359.0
57.5°	1378.6	1378.6	1392.6	1392.6	1392.6	1378.6	1378.6	1373.0	1291.7	1274.9	1269.3
60°	1269.3	1274.9	1286.1	1283.3	1286.1	1274.9	1269.3	1263.7	1193.7	1182.4	1162.8
62.5°	1154.4	1160.0	1162.8	1157.2	1162.8	1160.0	1154.4	1137.6	1095.6	1087.2	1062.0
65°	1033.9	1039.5	1042.3	1036.7	1042.3	1039.5	1033.9	1025.5	994.7	980.7	958.3
67.5°	910.6	907.8	905.0	916.3	905.0	907.8	910.6	899.4	879.8	868.6	837.8
70°	784.6	784.6	781.8	787.4	781.8	784.6	784.6	776.2	764.9	756.5	728.5
72.5°	650.1	647.3	658.5	650.1	658.5	647.3	650.1	647.3	641.7	633.3	605.2
75°	518.4	524.0	518.4	526.8	518.4	524.0	518.4	521.2	518.4	512.8	493.2
77.5°	395.1	400.7	395.1	395.1	395.1	400.7	395.1	397.9	397.9	397.9	381.1
80°	280.2	277.4	277.4	274.6	277.4	277.4	280.2	280.2	283.0	277.4	271.8
82.5°	179.3	176.5	176.5	182.1	176.5	176.5	179.3	182.1	176.5	176.5	176.5
85°	98.1	100.9	95.3	95.3	95.3	100.9	98.1	92.5	98.1	98.1	95.3
87.5°	36.4	33.6	33.6	33.6	33.6	33.6	36.4	39.2	39.2	39.2	42.0
90°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	14.2	19.0	21.3	18.3
92.5°	53.3	51.2	42.8	34.3	42.8	51.2	53.3	75.6	105.3	120.1	105.4
95°	181.0	174.6	148.9	123.2	148.9	174.6	181.0	237.7	313.3	351.1	296.5
97.5°	417.9	405.6	356.8	307.8	356.8	405.6	417.9	453.7	501.5	525.4	434.4
100°	586.8	572.3	514.1	455.8	514.1	572.3	586.8	584.2	580.8	579.0	478.0
102.5°	731.0	718.5	668.7	618.8	668.7	718.5	731.0	685.4	624.6	594.1	491.8
105°	899.4	892.7	865.9	839.1	865.9	892.7	899.4	797.1	660.6	592.4	493.2
107.5°	987.1	988.6	995.2	1001.6	995.2	988.6	987.1	844.2	653.9	558.7	471.3
110°	1009.5	1016.5	1044.4	1072.3	1044.4	1016.5	1009.5	849.8	637.1	530.7	451.9

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	995.2	1005.9	1048.8	1091.7	1048.8	1005.9	995.2	831.8	614.1	505.2	434.9
115°	946.6	961.5	1021.0	1080.5	1021.0	961.5	946.6	789.2	579.5	474.6	415.3
117.5°	879.5	896.1	962.0	1028.0	962.0	896.1	879.5	737.6	548.3	453.6	403.2
120°	834.3	850.4	914.5	978.6	914.5	850.4	834.3	704.6	531.5	445.1	399.0
122.5°	789.1	804.9	868.2	931.5	868.2	804.9	789.1	672.3	516.5	438.6	396.9
125°	729.4	743.9	802.1	860.4	802.1	743.9	729.4	630.1	497.7	431.6	395.2
127.5°	681.4	693.7	742.8	791.9	742.8	693.7	681.4	596.2	482.5	425.7	394.1
130°	651.1	662.5	707.9	753.3	707.9	662.5	651.1	575.3	474.1	423.5	394.7
132.5°	625.3	635.5	676.1	716.8	676.1	635.5	625.3	557.4	466.8	421.5	395.2
135°	588.8	597.6	632.6	667.6	632.6	597.6	588.8	531.9	456.1	418.2	394.8
137.5°	561.8	569.0	597.7	626.4	597.7	569.0	561.8	513.7	449.6	417.6	397.2
140°	540.2	547.0	573.8	600.6	573.8	547.0	540.2	498.7	443.3	415.6	397.6
142.5°	525.1	530.9	554.0	577.0	554.0	530.9	525.1	488.6	439.9	415.6	399.0
145°	502.3	506.7	524.2	541.6	524.2	506.7	502.3	472.5	432.7	412.8	399.0
147.5°	483.3	486.9	501.4	515.8	501.4	486.9	483.3	459.8	428.5	412.8	401.8
150°	472.3	475.2	487.0	498.7	487.0	475.2	472.3	452.5	426.1	412.8	403.2
152.5°	463.6	465.9	474.7	483.5	474.7	465.9	463.6	446.7	424.1	412.8	404.1
155°	453.3	454.8	460.6	466.4	460.6	454.8	453.3	439.8	421.8	412.8	406.2
157.5°	444.2	445.2	449.4	453.6	449.4	445.2	444.2	433.7	419.8	412.8	408.3
160°	439.7	440.3	442.7	445.1	442.7	440.3	439.7	430.8	418.8	412.8	409.2
162.5°	435.5	436.1	438.3	440.6	438.3	436.1	435.5	428.0	417.9	412.8	410.2
165°	429.1	429.6	432.1	434.4	432.1	429.6	429.1	423.7	416.5	412.8	411.6
167.5°	426.3	426.6	427.5	428.5	427.5	426.6	426.3	422.7	418.0	415.6	414.6
170°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	422.7	418.0	415.6	415.5
172.5°	424.0	423.8	422.9	422.1	422.9	423.8	424.0	421.2	417.5	415.6	415.6
175°	421.0	421.0	421.0	421.0	421.0	421.0	421.0	419.2	416.8	415.6	416.2
177.5°	420.4	420.1	419.2	418.2	419.2	420.1	420.4	419.0	417.1	416.2	416.7
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	2925.4	2939.4	2947.8	2959.0	2987.0
5°	2813.3	2866.5	2883.4	2925.4	2975.8
7.5°	2566.7	2729.2	2774.1	2874.9	2953.4
10°	2328.5	2491.1	2569.5	2807.7	2925.4
12.5°	2208.0	2303.2	2356.5	2690.0	2886.2
15°	2132.3	2199.6	2238.8	2533.1	2841.3
17.5°	2073.5	2121.1	2149.1	2378.9	2779.7
20°	2037.1	2059.5	2084.7	2266.8	2709.6
22.5°	2011.8	1997.8	2017.4	2188.4	2614.4
25°	1995.0	1941.8	1964.2	2126.7	2502.3
27.5°	2009.0	1891.4	1899.8	2070.7	2384.5
30°	2011.8	1829.7	1832.5	2011.8	2252.8
32.5°	1992.2	1765.3	1768.1	1939.0	2104.3
35°	1944.6	1689.6	1686.8	1854.9	1902.6
37.5°	1880.1	1608.3	1608.3	1762.5	1681.2
40°	1801.7	1527.1	1535.5	1642.0	1485.1
42.5°	1706.4	1440.2	1451.4	1482.3	1339.4
45°	1602.7	1356.2	1364.6	1252.5	1227.3
47.5°	1487.9	1269.3	1272.1	1039.5	1190.9
50°	1350.6	1179.6	1168.4	891.0	1188.0
52.5°	1230.1	1081.6	1047.9	807.0	1078.8
55°	1112.4	977.9	905.0	742.5	1000.3
57.5°	1008.7	843.4	773.4	666.9	983.5
60°	913.5	711.7	658.5	585.6	902.2
62.5°	835.0	613.6	602.4	529.6	818.2
65°	750.9	546.4	543.6	481.9	694.9
67.5°	669.7	501.6	498.8	437.1	529.6
70°	582.8	453.9	448.3	389.5	392.3
72.5°	493.2	400.7	395.1	350.2	325.0
75°	403.5	339.0	336.2	305.4	263.4
77.5°	316.6	269.0	274.6	246.6	193.3
80°	227.0	196.1	201.7	176.5	145.7
82.5°	151.3	128.9	134.5	112.1	98.1
85°	84.1	72.9	75.7	58.8	44.8
87.5°	39.2	33.6	33.6	22.4	14.0
90°	12.3	7.8	7.3	5.0	2.8
92.5°	76.1	54.2	49.4	30.3	11.2
95°	187.4	105.5	96.8	61.8	26.9
97.5°	252.4	115.9	108.3	77.4	46.6
100°	276.1	124.6	117.6	89.7	61.7
102.5°	286.9	133.3	126.7	100.7	74.6
105°	295.0	146.2	140.7	118.6	96.6
107.5°	296.5	165.3	160.2	139.5	119.0
110°	294.2	176.0	171.3	152.7	134.1

TEST NUMBER: P934005

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	294.3	188.9	184.5	166.7	149.1
115°	297.0	208.3	204.2	187.8	171.5
117.5°	302.5	227.1	223.3	208.5	193.6
120°	307.0	238.0	234.5	220.5	206.5
122.5°	313.5	250.9	247.3	233.3	219.2
125°	322.2	267.5	264.3	251.4	238.5
127.5°	330.9	283.5	280.2	267.2	254.2
130°	337.3	294.1	290.7	276.7	262.6
132.5°	342.4	302.8	299.3	285.3	271.4
135°	348.0	312.9	309.7	297.0	284.3
137.5°	356.4	325.8	322.6	310.1	297.5
140°	361.6	334.6	331.7	320.0	308.4
142.5°	365.8	341.0	338.3	327.6	316.8
145°	371.5	350.8	348.5	339.1	329.8
147.5°	379.7	363.1	360.9	351.7	342.7
150°	384.0	369.6	367.5	359.3	351.1
152.5°	386.8	373.8	372.2	366.0	359.8
155°	392.9	383.0	381.9	377.2	372.7
157.5°	399.2	392.4	391.3	386.7	382.2
160°	402.0	396.6	395.7	392.2	388.7
162.5°	405.0	401.1	400.4	397.8	395.2
165°	409.3	407.5	406.9	404.5	402.2
167.5°	412.6	411.1	410.9	409.7	408.6
170°	415.4	415.3	415.1	413.9	412.8
172.5°	415.6	415.6	415.5	415.3	415.1
175°	417.3	418.2	418.2	418.2	418.2
177.5°	417.5	418.2	418.2	418.2	418.2
180°	418.2	418.2	418.2	418.2	418.2

(END OF REPORT)