

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: P934101

Luminaire Tested: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934101
REPORT IS A COMBINATION OF REPORTS P933681 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

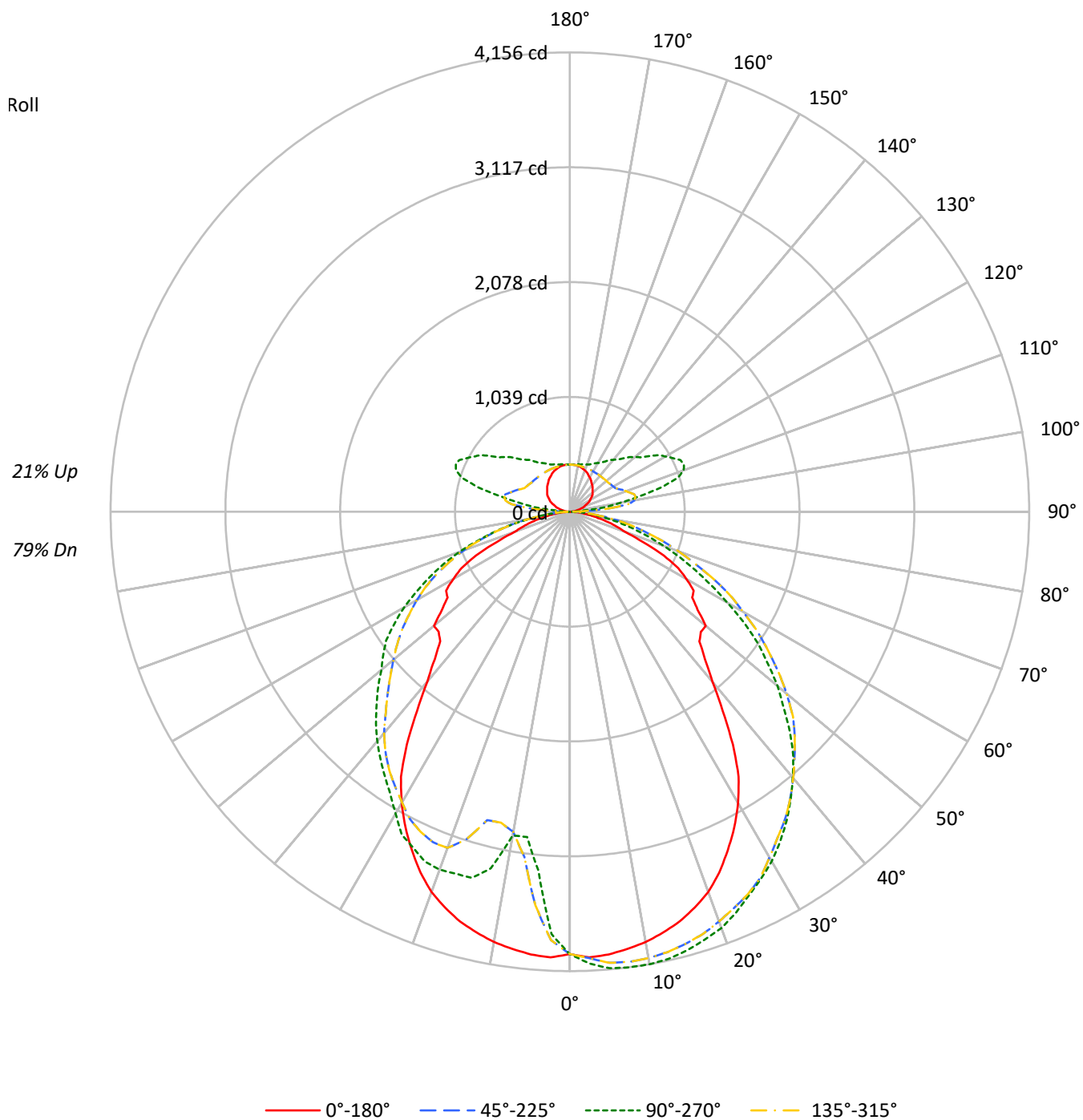
Lumens per Lamp: N/A
Luminaire Lumens: 13147.5 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 116.4
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: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

Luminous Intensity Polar Plot



TEST NUMBER: P934101

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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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12376	12376	12376	12376
5°	12473	12493	12473	9823
10°	12394	12306	12394	8798
15°	12264	12039	12264	10053
20°	12012	11724	12012	10074
25°	11492	11263	11492	9860
30°	10818	10880	10818	9392
35°	9649	10396	9649	8877
40°	8045	9827	8045	8488
45°	7193	9160	7193	8040
50°	7647	8365	7647	7591
55°	7201	7509	7201	7331
60°	7433	6377	7433	6715
65°	6750	5272	6750	5893
70°	4685	4201	4685	4940
75°	4124	3106	4124	3719
80°	3347	2053	3347	2235
85°	1960	1087	1960	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 11016 cd/sqm

TEST NUMBER: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.2	2.7
10°-20°	1025.5	7.8
20°-30°	1585.2	12.1
30°-40°	1892.4	14.4
40°-50°	1903.5	14.5
50°-60°	1656.2	12.6
60°-70°	1174.3	8.9
70°-80°	621.3	4.7
80°-90°	156.4	1.2
90°-100°	208.4	1.6
100°-110°	547.9	4.2
110°-120°	568.1	4.3
120°-130°	455.7	3.5
130°-140°	357.6	2.7
140°-150°	274.5	2.1
150°-160°	197.7	1.5
160°-170°	120.9	0.9
170°-180°	40.9	0.3
0°-30°	2971.8	22.6
0°-40°	4864.2	37.0
0°-60°	8423.9	64.1
0°-90°	10375.8	78.9
90°-120°	1324.5	10.1
90°-150°	2412.2	18.3
90°-180°	2772.0	21.1
0°-180°	13147.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4001	4001	4001	4001	4001	
5°	4020	4145	4020	3259	4020	381
15°	3838	4107	3838	3430	3838	1080
25°	3380	3831	3380	3354	3380	1552
35°	2570	3418	2570	2918	2570	1590
45°	1658	2816	1658	2472	1658	1328
55°	1351	2078	1351	2029	1351	1242
65°	939	1253	939	1401	939	897
75°	356	594	356	712	356	374
85°	60	151	60	129	60	82
90°	3	11	3	11	3	5
95°	28	126	28	126	28	31
105°	99	858	99	858	99	105
115°	175	1105	175	1105	175	173
125°	244	880	244	880	244	217
135°	291	683	291	683	291	225
145°	337	554	337	554	337	211
155°	381	477	381	477	381	175
165°	411	444	411	444	411	116
175°	428	430	428	430	428	41
180°	428	428	428	428	428	

TEST NUMBER: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1
2.5°	4035.2	4035.2	4057.9	4065.4	4065.4	4054.1	4042.7	4054.1	4088.2	4099.5	4095.7
5°	4020.1	4050.3	4092.0	4099.5	4107.1	4103.3	4095.7	4103.3	4141.2	4148.7	4152.5
7.5°	3989.7	4046.5	4099.5	4110.9	4122.3	4110.9	4107.1	4114.7	4152.5	4160.1	4160.1
10°	3951.9	4031.4	4092.0	4099.5	4110.9	4099.5	4099.5	4114.7	4152.5	4160.1	4163.9
12.5°	3898.9	4008.7	4065.4	4073.1	4088.2	4084.3	4080.6	4095.7	4133.6	4141.2	4141.2
15°	3838.3	3967.1	4020.1	4027.6	4054.1	4046.5	4046.5	4061.7	4103.3	4114.7	4110.9
17.5°	3755.1	3914.1	3974.6	3986.0	4004.9	4001.1	4004.9	4020.1	4057.9	4065.4	4069.3
20°	3660.4	3842.2	3914.1	3925.4	3944.3	3944.3	3944.3	3963.2	4001.1	4016.3	4016.3
22.5°	3531.7	3766.4	3842.2	3849.7	3872.4	3872.4	3880.0	3906.4	3940.5	3944.3	3944.3
25°	3380.3	3683.1	3747.5	3770.2	3792.9	3804.2	3815.6	3830.8	3842.2	3838.3	3842.2
27.5°	3221.3	3577.1	3660.4	3675.6	3705.9	3717.2	3732.3	3736.2	3739.9	3751.2	3743.7
30°	3043.4	3429.5	3554.4	3569.6	3618.8	3626.3	3611.2	3618.8	3637.7	3645.3	3652.9
32.5°	2842.7	3209.9	3444.7	3478.7	3524.1	3501.4	3497.7	3509.1	3539.3	3539.3	3546.9
35°	2570.3	3039.7	3342.5	3372.8	3406.8	3380.3	3395.4	3399.2	3418.1	3429.5	3425.8
37.5°	2271.2	2892.0	3236.5	3259.2	3285.7	3251.6	3274.3	3285.7	3300.9	3293.2	3293.2
40°	2006.3	2661.1	3111.6	3126.7	3149.4	3122.9	3145.6	3153.2	3160.8	3153.2	3149.4
42.5°	1809.4	2407.5	2979.0	2998.0	2982.8	3001.8	3009.3	3024.5	3013.1	2998.0	2998.0
45°	1658.0	2339.4	2835.2	2857.9	2835.2	2865.5	2876.8	2876.8	2842.7	2835.2	2831.5
47.5°	1608.8	2203.1	2691.4	2691.4	2680.0	2717.8	2736.8	2710.3	2676.2	2664.9	2664.9
50°	1605.0	2051.6	2494.6	2479.4	2532.4	2577.8	2558.9	2532.4	2505.9	2464.3	2464.3
52.5°	1457.3	1866.2	2240.9	2297.7	2381.0	2407.5	2377.2	2350.7	2305.3	2286.4	2271.2
55°	1351.3	1673.2	2010.0	2123.5	2210.6	2244.7	2187.9	2161.5	2093.3	2081.9	2074.4
57.5°	1328.7	1393.0	1798.1	1941.9	2047.9	2044.1	2010.0	1960.8	1904.0	1892.7	1888.9
60°	1218.9	1006.9	1570.9	1741.3	1851.1	1839.7	1809.4	1764.0	1711.0	1703.4	1695.8
62.5°	1105.3	730.6	1313.5	1506.6	1661.8	1658.0	1631.5	1563.3	1525.5	1506.6	1491.4
65°	938.8	613.2	934.9	1253.0	1476.2	1483.9	1427.1	1377.9	1336.2	1313.5	1309.7
67.5°	715.4	499.7	632.1	1044.8	1298.4	1290.8	1218.9	1196.1	1143.1	1131.8	1109.1
70°	529.9	333.1	439.1	847.9	1124.2	1105.3	1048.5	1022.0	972.9	946.3	931.2
72.5°	439.1	268.7	321.7	658.7	946.3	923.6	874.4	844.1	802.5	779.8	764.7
75°	355.8	283.9	246.0	488.3	768.4	753.3	707.8	677.6	643.5	613.2	617.0
77.5°	261.2	265.0	196.8	359.7	609.5	586.8	560.2	522.4	507.2	476.9	476.9
80°	196.8	208.2	147.6	246.0	439.1	439.1	416.4	389.9	363.4	348.3	348.3
82.5°	132.5	132.5	109.7	155.2	299.0	287.6	272.6	265.0	249.8	242.3	242.3
85°	60.5	75.7	68.1	94.6	162.7	170.4	170.4	162.7	159.0	151.4	155.2
87.5°	18.9	34.1	41.6	53.0	83.3	87.1	90.8	90.8	90.8	94.6	94.6
90°	2.9	5.2	7.4	8.0	12.6	18.7	21.8	19.4	14.5	10.9	10.9
92.5°	11.5	30.9	50.5	55.4	77.8	107.8	122.8	107.6	77.3	54.5	52.3
95°	27.5	63.2	98.9	107.9	191.6	303.2	359.0	320.3	243.0	185.1	178.5
97.5°	47.7	79.2	110.7	118.5	258.0	444.2	537.2	512.7	463.9	427.3	414.8
100°	63.1	91.7	120.2	127.4	282.3	488.8	592.0	593.8	597.4	600.0	585.1
102.5°	76.3	102.9	129.6	136.3	293.4	502.8	607.5	638.6	700.8	747.5	734.7
105°	98.7	121.3	143.8	149.5	301.6	504.3	605.8	675.5	815.0	919.7	912.8
107.5°	121.7	142.7	163.8	169.0	303.1	481.9	571.3	668.6	863.2	1009.2	1010.9
110°	137.1	156.1	175.1	179.9	300.8	462.0	542.6	651.4	869.0	1032.2	1039.3



TEST NUMBER: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	152.4	170.5	188.6	193.1	300.9	444.6	516.6	627.9	850.5	1017.6	1028.5
115°	175.3	192.1	208.8	213.0	303.7	424.7	485.2	592.5	807.0	967.9	983.1
117.5°	198.0	213.2	228.3	232.2	309.3	412.3	463.7	560.6	754.2	899.3	916.2
120°	211.2	225.5	239.8	243.3	313.9	408.0	455.1	543.5	720.5	853.1	869.5
122.5°	224.1	238.6	252.9	256.5	320.5	405.8	448.5	528.1	687.4	806.9	823.0
125°	243.9	257.1	270.3	273.5	329.5	404.1	441.3	508.9	644.2	745.8	760.7
127.5°	260.0	273.2	286.5	289.8	338.4	403.0	435.3	493.4	609.6	696.7	709.3
130°	268.5	282.9	297.2	300.7	344.9	403.6	433.0	484.8	588.2	665.7	677.4
132.5°	277.5	291.8	306.1	309.6	350.1	404.1	431.0	477.3	569.9	639.4	649.8
135°	290.7	303.7	316.7	319.9	355.8	403.7	427.6	466.3	543.9	602.0	611.0
137.5°	304.2	317.1	329.9	333.1	364.4	406.2	427.0	459.7	525.2	574.4	581.8
140°	315.3	327.2	339.1	342.1	369.7	406.5	425.0	453.2	509.9	552.4	559.2
142.5°	323.9	334.9	345.9	348.7	374.1	408.0	425.0	449.8	499.6	536.9	542.8
145°	337.2	346.8	356.3	358.7	379.8	408.0	422.1	442.5	483.1	513.6	518.1
147.5°	350.4	359.7	369.0	371.3	388.2	410.8	422.1	438.2	470.1	494.1	497.8
150°	359.0	367.4	375.8	377.9	392.6	412.3	422.1	435.7	462.7	482.9	485.9
152.5°	367.9	374.3	380.6	382.2	395.5	413.2	422.1	433.7	456.8	474.1	476.4
155°	381.0	385.7	390.5	391.6	401.8	415.3	422.1	431.3	449.7	463.5	465.0
157.5°	390.8	395.4	400.0	401.2	408.2	417.4	422.1	429.3	443.5	454.2	455.2
160°	397.5	401.0	404.6	405.5	411.0	418.4	422.1	428.2	440.4	449.6	450.2
162.5°	404.1	406.7	409.4	410.1	414.1	419.4	422.1	427.3	437.6	445.3	445.9
165°	411.2	413.6	416.1	416.7	418.5	420.9	422.1	425.8	433.2	438.7	439.3
167.5°	417.8	419.0	420.1	420.4	421.9	423.9	425.0	427.4	432.2	435.9	436.1
170°	422.1	423.3	424.4	424.7	424.8	424.9	425.0	427.4	432.2	435.9	435.9
172.5°	424.4	424.7	424.9	425.0	425.0	425.0	425.0	426.9	430.7	433.6	433.4
175°	427.6	427.6	427.6	427.6	426.7	425.5	425.0	426.2	428.6	430.4	430.4
177.5°	427.6	427.6	427.6	427.6	426.9	426.0	425.5	426.5	428.4	429.8	429.6
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6

TEST NUMBER: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1
2.5°	4103.3	4092.0	4103.3	4095.7	4099.5	4088.2	4054.1	4042.7	4054.1	4065.4	4065.4
5°	4152.5	4145.0	4152.5	4152.5	4148.7	4141.2	4103.3	4095.7	4103.3	4107.1	4099.5
7.5°	4167.6	4156.4	4167.6	4160.1	4160.1	4152.5	4114.7	4107.1	4110.9	4122.3	4110.9
10°	4167.6	4156.4	4167.6	4163.9	4160.1	4152.5	4114.7	4099.5	4099.5	4110.9	4099.5
12.5°	4148.7	4141.2	4148.7	4141.2	4141.2	4133.6	4095.7	4080.6	4084.3	4088.2	4073.1
15°	4118.4	4107.1	4118.4	4110.9	4114.7	4103.3	4061.7	4046.5	4046.5	4054.1	4027.6
17.5°	4073.1	4057.9	4073.1	4069.3	4065.4	4057.9	4020.1	4004.9	4001.1	4004.9	3986.0
20°	4020.1	4008.7	4020.1	4016.3	4016.3	4001.1	3963.2	3944.3	3944.3	3944.3	3925.4
22.5°	3936.8	3925.4	3936.8	3944.3	3944.3	3940.5	3906.4	3880.0	3872.4	3872.4	3849.7
25°	3842.2	3830.8	3842.2	3842.2	3838.3	3842.2	3830.8	3815.6	3804.2	3792.9	3770.2
27.5°	3751.2	3743.7	3751.2	3743.7	3751.2	3739.9	3736.2	3732.3	3717.2	3705.9	3675.6
30°	3660.4	3652.9	3660.4	3652.9	3645.3	3637.7	3618.8	3611.2	3626.3	3618.8	3569.6
32.5°	3546.9	3539.3	3546.9	3546.9	3539.3	3539.3	3509.1	3497.7	3501.4	3524.1	3478.7
35°	3429.5	3418.1	3429.5	3425.8	3429.5	3418.1	3399.2	3395.4	3380.3	3406.8	3372.8
37.5°	3293.2	3281.9	3293.2	3293.2	3293.2	3300.9	3285.7	3274.3	3251.6	3285.7	3259.2
40°	3153.2	3138.0	3153.2	3149.4	3153.2	3160.8	3153.2	3145.6	3122.9	3149.4	3126.7
42.5°	2994.2	2990.4	2994.2	2998.0	2998.0	3013.1	3024.5	3009.3	3001.8	2982.8	2998.0
45°	2823.8	2816.3	2823.8	2831.5	2835.2	2842.7	2876.8	2876.8	2865.5	2835.2	2857.9
47.5°	2642.2	2623.3	2642.2	2664.9	2664.9	2676.2	2710.3	2736.8	2717.8	2680.0	2691.4
50°	2449.1	2452.9	2449.1	2464.3	2464.3	2505.9	2532.4	2558.9	2577.8	2532.4	2479.4
52.5°	2259.8	2256.1	2259.8	2271.2	2286.4	2305.3	2350.7	2377.2	2407.5	2381.0	2297.7
55°	2070.5	2078.2	2070.5	2074.4	2081.9	2093.3	2161.5	2187.9	2244.7	2210.6	2123.5
57.5°	1881.4	1870.0	1881.4	1888.9	1892.7	1904.0	1960.8	2010.0	2044.1	2047.9	1941.9
60°	1661.8	1646.6	1661.8	1695.8	1703.4	1711.0	1764.0	1809.4	1839.7	1851.1	1741.3
62.5°	1468.7	1442.2	1468.7	1491.4	1506.6	1525.5	1563.3	1631.5	1658.0	1661.8	1506.6
65°	1264.3	1253.0	1264.3	1309.7	1313.5	1336.2	1377.9	1427.1	1483.9	1476.2	1253.0
67.5°	1078.9	1078.9	1078.9	1109.1	1131.8	1143.1	1196.1	1218.9	1290.8	1298.4	1044.8
70°	908.5	904.7	908.5	931.2	946.3	972.9	1022.0	1048.5	1105.3	1124.2	847.9
72.5°	745.8	741.9	745.8	764.7	779.8	802.5	844.1	874.4	923.6	946.3	658.7
75°	601.8	594.3	601.8	617.0	613.2	643.5	677.6	707.8	753.3	768.4	488.3
77.5°	461.8	461.8	461.8	476.9	476.9	507.2	522.4	560.2	586.8	609.5	359.7
80°	344.5	340.6	344.5	348.3	348.3	363.4	389.9	416.4	439.1	439.1	246.0
82.5°	242.3	234.6	242.3	242.3	242.3	249.8	265.0	272.6	287.6	299.0	155.2
85°	151.4	151.4	151.4	155.2	151.4	159.0	162.7	170.4	170.4	162.7	94.6
87.5°	98.5	94.6	98.5	94.6	94.6	90.8	90.8	90.8	87.1	83.3	53.0
90°	10.9	10.9	10.9	10.9	10.9	14.5	19.4	21.8	18.7	12.6	8.0
92.5°	43.7	35.0	43.7	52.3	54.5	77.3	107.6	122.8	107.8	77.8	55.4
95°	152.2	126.0	152.2	178.5	185.1	243.0	320.3	359.0	303.2	191.6	107.9
97.5°	364.8	314.8	364.8	414.8	427.3	463.9	512.7	537.2	444.2	258.0	118.5
100°	525.6	466.0	525.6	585.1	600.0	597.4	593.8	592.0	488.8	282.3	127.4
102.5°	683.7	632.7	683.7	734.7	747.5	700.8	638.6	607.5	502.8	293.4	136.3
105°	885.4	858.0	885.4	912.8	919.7	815.0	675.5	605.8	504.3	301.6	149.5
107.5°	1017.6	1024.1	1017.6	1010.9	1009.2	863.2	668.6	571.3	481.9	303.1	169.0
110°	1067.9	1096.4	1067.9	1039.3	1032.2	869.0	651.4	542.6	462.0	300.8	179.9



TEST NUMBER: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1072.4	1116.2	1072.4	1028.5	1017.6	850.5	627.9	516.6	444.6	300.9	193.1
115°	1043.9	1104.7	1043.9	983.1	967.9	807.0	592.5	485.2	424.7	303.7	213.0
117.5°	983.6	1051.1	983.6	916.2	899.3	754.2	560.6	463.7	412.3	309.3	232.2
120°	935.0	1000.6	935.0	869.5	853.1	720.5	543.5	455.1	408.0	313.9	243.3
122.5°	887.8	952.4	887.8	823.0	806.9	687.4	528.1	448.5	405.8	320.5	256.5
125°	820.2	879.7	820.2	760.7	745.8	644.2	508.9	441.3	404.1	329.5	273.5
127.5°	759.5	809.7	759.5	709.3	696.7	609.6	493.4	435.3	403.0	338.4	289.8
130°	723.8	770.2	723.8	677.4	665.7	588.2	484.8	433.0	403.6	344.9	300.7
132.5°	691.3	732.9	691.3	649.8	639.4	569.9	477.3	431.0	404.1	350.1	309.6
135°	646.8	682.6	646.8	611.0	602.0	543.9	466.3	427.6	403.7	355.8	319.9
137.5°	611.1	640.5	611.1	581.8	574.4	525.2	459.7	427.0	406.2	364.4	333.1
140°	586.7	614.1	586.7	559.2	552.4	509.9	453.2	425.0	406.5	369.7	342.1
142.5°	566.4	590.0	566.4	542.8	536.9	499.6	449.8	425.0	408.0	374.1	348.7
145°	535.9	553.8	535.9	518.1	513.6	483.1	442.5	422.1	408.0	379.8	358.7
147.5°	512.6	527.4	512.6	497.8	494.1	470.1	438.2	422.1	410.8	388.2	371.3
150°	497.9	509.9	497.9	485.9	482.9	462.7	435.7	422.1	412.3	392.6	377.9
152.5°	485.3	494.4	485.3	476.4	474.1	456.8	433.7	422.1	413.2	395.5	382.2
155°	470.9	476.9	470.9	465.0	463.5	449.7	431.3	422.1	415.3	401.8	391.6
157.5°	459.5	463.7	459.5	455.2	454.2	443.5	429.3	422.1	417.4	408.2	401.2
160°	452.7	455.1	452.7	450.2	449.6	440.4	428.2	422.1	418.4	411.0	405.5
162.5°	448.2	450.5	448.2	445.9	445.3	437.6	427.3	422.1	419.4	414.1	410.1
165°	441.8	444.2	441.8	439.3	438.7	433.2	425.8	422.1	420.9	418.5	416.7
167.5°	437.1	438.2	437.1	436.1	435.9	432.2	427.4	425.0	423.9	421.9	420.4
170°	435.9	435.9	435.9	435.9	435.9	432.2	427.4	425.0	424.9	424.8	424.7
172.5°	432.4	431.6	432.4	433.4	433.6	430.7	426.9	425.0	425.0	425.0	425.0
175°	430.4	430.4	430.4	430.4	430.4	428.6	426.2	425.0	425.5	426.7	427.6
177.5°	428.6	427.6	428.6	429.6	429.8	428.4	426.5	425.5	426.0	426.9	427.6
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6

TEST NUMBER: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1
2.5°	4057.9	4035.2	4035.2	3997.3	3982.2	3970.8	3951.9	3895.2	3880.0	3864.8	3887.5
5°	4092.0	4050.3	4020.1	3951.9	3895.2	3872.4	3800.5	3664.2	3573.3	3505.2	3467.4
7.5°	4099.5	4046.5	3989.7	3883.8	3747.5	3687.0	3467.4	3217.6	3149.4	3088.9	3050.9
10°	4092.0	4031.4	3951.9	3792.9	3471.1	3365.1	3145.6	2982.8	2941.2	2929.8	2941.2
12.5°	4065.4	4008.7	3898.9	3634.0	3183.5	3111.6	2982.8	2888.2	2880.7	2899.6	3001.8
15°	4020.1	3967.1	3838.3	3422.0	3024.5	2971.5	2880.7	2846.6	2888.2	3020.7	3327.3
17.5°	3974.6	3914.1	3755.1	3213.8	2903.4	2865.5	2801.1	2869.3	3103.9	3281.9	3384.1
20°	3914.1	3842.2	3660.4	3062.3	2816.3	2782.2	2751.9	3058.6	3236.5	3300.9	3357.6
22.5°	3842.2	3766.4	3531.7	2956.4	2725.5	2698.9	2717.8	3164.6	3236.5	3281.9	3331.1
25°	3747.5	3683.1	3380.3	2873.1	2653.6	2623.3	2695.2	3153.2	3194.9	3206.2	3304.6
27.5°	3660.4	3577.1	3221.3	2797.4	2566.5	2555.1	2714.1	3103.9	3134.3	3145.6	3251.6
30°	3554.4	3429.5	3043.4	2717.8	2475.6	2471.8	2717.8	3043.4	3035.8	3066.1	3172.1
32.5°	3444.7	3209.9	2842.7	2619.5	2388.6	2384.7	2691.4	2952.6	2945.0	2986.7	3066.1
35°	3342.5	3039.7	2570.3	2505.9	2278.8	2282.5	2627.0	2846.6	2850.4	2888.2	2937.4
37.5°	3236.5	2892.0	2271.2	2381.0	2172.8	2172.8	2539.9	2748.2	2740.6	2751.9	2820.1
40°	3111.6	2661.1	2006.3	2218.2	2074.4	2063.0	2434.0	2642.2	2615.6	2611.9	2706.6
42.5°	2979.0	2407.5	1809.4	2002.4	1960.8	1945.6	2305.3	2513.5	2464.3	2475.6	2596.7
45°	2835.2	2339.4	1658.0	1692.1	1843.4	1832.1	2165.2	2365.8	2331.7	2362.1	2487.0
47.5°	2691.4	2203.1	1608.8	1404.3	1718.5	1714.8	2010.0	2222.0	2203.1	2233.4	2365.8
50°	2494.6	2051.6	1605.0	1203.8	1578.5	1593.6	1824.5	2081.9	2081.9	2108.4	2248.5
52.5°	2240.9	1866.2	1457.3	1090.1	1415.7	1461.1	1661.8	1960.8	1968.4	1994.9	2119.8
55°	2010.0	1673.2	1351.3	1003.1	1222.7	1321.1	1502.8	1835.9	1851.1	1877.5	1991.1
57.5°	1798.1	1393.0	1328.7	900.9	1044.8	1139.4	1362.7	1714.8	1722.3	1745.1	1854.8
60°	1570.9	1006.9	1218.9	791.1	889.6	961.5	1234.1	1570.9	1597.4	1612.5	1707.2
62.5°	1313.5	730.6	1105.3	715.4	813.9	829.0	1128.0	1434.6	1468.7	1480.1	1536.9
65°	934.9	613.2	938.8	651.1	734.4	738.1	1014.5	1294.6	1324.9	1343.8	1385.4
67.5°	632.1	499.7	715.4	590.5	673.8	677.6	904.7	1131.8	1173.4	1188.6	1215.1
70°	439.1	333.1	529.9	526.2	605.7	613.2	787.4	984.2	1022.0	1033.4	1048.5
72.5°	321.7	268.7	439.1	473.2	533.7	541.3	666.2	817.7	855.5	866.9	874.4
75°	246.0	283.9	355.8	412.6	454.2	458.0	545.1	666.2	692.8	700.3	704.0
77.5°	196.8	265.0	261.2	333.1	370.9	363.4	427.7	514.8	537.5	537.5	537.5
80°	147.6	208.2	196.8	238.5	272.6	265.0	306.7	367.2	374.7	382.3	378.6
82.5°	109.7	132.5	132.5	151.4	181.7	174.1	204.4	238.5	238.5	238.5	246.0
85°	68.1	75.7	60.5	79.5	102.2	98.5	113.5	128.7	132.5	132.5	124.9
87.5°	41.6	34.1	18.9	30.3	45.5	45.5	53.0	56.8	53.0	53.0	53.0
90°	7.4	5.2	2.9	5.2	7.4	8.0	12.6	18.7	21.8	19.4	14.5
92.5°	50.5	30.9	11.5	30.9	50.5	55.4	77.8	107.8	122.8	107.6	77.3
95°	98.9	63.2	27.5	63.2	98.9	107.9	191.6	303.2	359.0	320.3	243.0
97.5°	110.7	79.2	47.7	79.2	110.7	118.5	258.0	444.2	537.2	512.7	463.9
100°	120.2	91.7	63.1	91.7	120.2	127.4	282.3	488.8	592.0	593.8	597.4
102.5°	129.6	102.9	76.3	102.9	129.6	136.3	293.4	502.8	607.5	638.6	700.8
105°	143.8	121.3	98.7	121.3	143.8	149.5	301.6	504.3	605.8	675.5	815.0
107.5°	163.8	142.7	121.7	142.7	163.8	169.0	303.1	481.9	571.3	668.6	863.2
110°	175.1	156.1	137.1	156.1	175.1	179.9	300.8	462.0	542.6	651.4	869.0

TEST NUMBER: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	188.6	170.5	152.4	170.5	188.6	193.1	300.9	444.6	516.6	627.9	850.5
115°	208.8	192.1	175.3	192.1	208.8	213.0	303.7	424.7	485.2	592.5	807.0
117.5°	228.3	213.2	198.0	213.2	228.3	232.2	309.3	412.3	463.7	560.6	754.2
120°	239.8	225.5	211.2	225.5	239.8	243.3	313.9	408.0	455.1	543.5	720.5
122.5°	252.9	238.6	224.1	238.6	252.9	256.5	320.5	405.8	448.5	528.1	687.4
125°	270.3	257.1	243.9	257.1	270.3	273.5	329.5	404.1	441.3	508.9	644.2
127.5°	286.5	273.2	260.0	273.2	286.5	289.8	338.4	403.0	435.3	493.4	609.6
130°	297.2	282.9	268.5	282.9	297.2	300.7	344.9	403.6	433.0	484.8	588.2
132.5°	306.1	291.8	277.5	291.8	306.1	309.6	350.1	404.1	431.0	477.3	569.9
135°	316.7	303.7	290.7	303.7	316.7	319.9	355.8	403.7	427.6	466.3	543.9
137.5°	329.9	317.1	304.2	317.1	329.9	333.1	364.4	406.2	427.0	459.7	525.2
140°	339.1	327.2	315.3	327.2	339.1	342.1	369.7	406.5	425.0	453.2	509.9
142.5°	345.9	334.9	323.9	334.9	345.9	348.7	374.1	408.0	425.0	449.8	499.6
145°	356.3	346.8	337.2	346.8	356.3	358.7	379.8	408.0	422.1	442.5	483.1
147.5°	369.0	359.7	350.4	359.7	369.0	371.3	388.2	410.8	422.1	438.2	470.1
150°	375.8	367.4	359.0	367.4	375.8	377.9	392.6	412.3	422.1	435.7	462.7
152.5°	380.6	374.3	367.9	374.3	380.6	382.2	395.5	413.2	422.1	433.7	456.8
155°	390.5	385.7	381.0	385.7	390.5	391.6	401.8	415.3	422.1	431.3	449.7
157.5°	400.0	395.4	390.8	395.4	400.0	401.2	408.2	417.4	422.1	429.3	443.5
160°	404.6	401.0	397.5	401.0	404.6	405.5	411.0	418.4	422.1	428.2	440.4
162.5°	409.4	406.7	404.1	406.7	409.4	410.1	414.1	419.4	422.1	427.3	437.6
165°	416.1	413.6	411.2	413.6	416.1	416.7	418.5	420.9	422.1	425.8	433.2
167.5°	420.1	419.0	417.8	419.0	420.1	420.4	421.9	423.9	425.0	427.4	432.2
170°	424.4	423.3	422.1	423.3	424.4	424.7	424.8	424.9	425.0	427.4	432.2
172.5°	424.9	424.7	424.4	424.7	424.9	425.0	425.0	425.0	425.0	426.9	430.7
175°	427.6	427.6	427.6	427.6	427.6	427.6	426.7	425.5	425.0	426.2	428.6
177.5°	427.6	427.6	427.6	427.6	427.6	427.6	426.9	426.0	425.5	426.5	428.4
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6

TEST NUMBER: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1	4001.1
2.5°	3861.1	3849.7	3864.8	3823.2	3864.8	3849.7	3861.1	3887.5	3864.8	3880.0	3895.2
5°	3387.9	3369.0	3308.4	3259.2	3308.4	3369.0	3387.9	3467.4	3505.2	3573.3	3664.2
7.5°	3028.3	3013.1	2998.0	2967.7	2998.0	3013.1	3028.3	3050.9	3088.9	3149.4	3217.6
10°	2948.8	2952.6	2975.3	2971.5	2975.3	2952.6	2948.8	2941.2	2929.8	2941.2	2982.8
12.5°	3153.2	3187.2	3312.1	3304.6	3312.1	3187.2	3153.2	3001.8	2899.6	2880.7	2888.2
15°	3387.9	3399.2	3425.8	3429.5	3425.8	3399.2	3387.9	3327.3	3020.7	2888.2	2846.6
17.5°	3410.6	3414.4	3433.3	3433.3	3433.3	3414.4	3410.6	3384.1	3281.9	3103.9	2869.3
20°	3391.7	3399.2	3437.0	3444.7	3437.0	3399.2	3391.7	3357.6	3300.9	3236.5	3058.6
22.5°	3384.1	3399.2	3429.5	3425.8	3429.5	3399.2	3384.1	3331.1	3281.9	3236.5	3164.6
25°	3346.2	3346.2	3350.0	3353.8	3350.0	3346.2	3346.2	3304.6	3206.2	3194.9	3153.2
27.5°	3266.8	3274.3	3297.0	3293.2	3297.0	3274.3	3266.8	3251.6	3145.6	3134.3	3103.9
30°	3194.9	3187.2	3168.3	3153.2	3168.3	3187.2	3194.9	3172.1	3066.1	3035.8	3043.4
32.5°	3073.7	3054.8	3035.8	3024.5	3035.8	3054.8	3073.7	3066.1	2986.7	2945.0	2952.6
35°	2929.8	2933.7	2929.8	2918.5	2929.8	2933.7	2929.8	2937.4	2888.2	2850.4	2846.6
37.5°	2827.7	2835.2	2831.5	2816.3	2831.5	2835.2	2827.7	2820.1	2751.9	2740.6	2748.2
40°	2721.7	2725.5	2721.7	2710.3	2721.7	2725.5	2721.7	2706.6	2611.9	2615.6	2642.2
42.5°	2619.5	2615.6	2604.3	2596.7	2604.3	2615.6	2619.5	2596.7	2475.6	2464.3	2513.5
45°	2502.1	2505.9	2483.2	2471.8	2483.2	2505.9	2502.1	2487.0	2362.1	2331.7	2365.8
47.5°	2384.7	2384.7	2365.8	2354.5	2365.8	2384.7	2384.7	2365.8	2233.4	2203.1	2222.0
50°	2259.8	2256.1	2229.5	2225.8	2229.5	2256.1	2259.8	2248.5	2108.4	2081.9	2081.9
52.5°	2116.0	2116.0	2119.8	2127.4	2119.8	2116.0	2116.0	2119.8	1994.9	1968.4	1960.8
55°	1991.1	1994.9	2021.4	2028.9	2021.4	1994.9	1991.1	1991.1	1877.5	1851.1	1835.9
57.5°	1862.3	1862.3	1881.4	1881.4	1881.4	1862.3	1862.3	1854.8	1745.1	1722.3	1714.8
60°	1714.8	1722.3	1737.4	1733.7	1737.4	1722.3	1714.8	1707.2	1612.5	1597.4	1570.9
62.5°	1559.5	1567.2	1570.9	1563.3	1570.9	1567.2	1559.5	1536.9	1480.1	1468.7	1434.6
65°	1396.8	1404.3	1408.1	1400.6	1408.1	1404.3	1396.8	1385.4	1343.8	1324.9	1294.6
67.5°	1230.2	1226.4	1222.7	1237.8	1222.7	1226.4	1230.2	1215.1	1188.6	1173.4	1131.8
70°	1059.9	1059.9	1056.1	1063.7	1056.1	1059.9	1059.9	1048.5	1033.4	1022.0	984.2
72.5°	878.2	874.4	889.6	878.2	889.6	874.4	878.2	874.4	866.9	855.5	817.7
75°	700.3	707.8	700.3	711.7	700.3	707.8	700.3	704.0	700.3	692.8	666.2
77.5°	533.7	541.3	533.7	533.7	533.7	541.3	533.7	537.5	537.5	537.5	514.8
80°	378.6	374.7	374.7	370.9	374.7	374.7	378.6	378.6	382.3	374.7	367.2
82.5°	242.3	238.5	238.5	246.0	238.5	238.5	242.3	246.0	238.5	238.5	238.5
85°	132.5	136.3	128.7	128.7	128.7	136.3	132.5	124.9	132.5	132.5	128.7
87.5°	49.2	45.5	45.5	45.5	45.5	45.5	49.2	53.0	53.0	53.0	56.8
90°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	14.5	19.4	21.8	18.7
92.5°	54.5	52.3	43.7	35.0	43.7	52.3	54.5	77.3	107.6	122.8	107.8
95°	185.1	178.5	152.2	126.0	152.2	178.5	185.1	243.0	320.3	359.0	303.2
97.5°	427.3	414.8	364.8	314.8	364.8	414.8	427.3	463.9	512.7	537.2	444.2
100°	600.0	585.1	525.6	466.0	525.6	585.1	600.0	597.4	593.8	592.0	488.8
102.5°	747.5	734.7	683.7	632.7	683.7	734.7	747.5	700.8	638.6	607.5	502.8
105°	919.7	912.8	885.4	858.0	885.4	912.8	919.7	815.0	675.5	605.8	504.3
107.5°	1009.2	1010.9	1017.6	1024.1	1017.6	1010.9	1009.2	863.2	668.6	571.3	481.9
110°	1032.2	1039.3	1067.9	1096.4	1067.9	1039.3	1032.2	869.0	651.4	542.6	462.0

TEST NUMBER: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1017.6	1028.5	1072.4	1116.2	1072.4	1028.5	1017.6	850.5	627.9	516.6	444.6
115°	967.9	983.1	1043.9	1104.7	1043.9	983.1	967.9	807.0	592.5	485.2	424.7
117.5°	899.3	916.2	983.6	1051.1	983.6	916.2	899.3	754.2	560.6	463.7	412.3
120°	853.1	869.5	935.0	1000.6	935.0	869.5	853.1	720.5	543.5	455.1	408.0
122.5°	806.9	823.0	887.8	952.4	887.8	823.0	806.9	687.4	528.1	448.5	405.8
125°	745.8	760.7	820.2	879.7	820.2	760.7	745.8	644.2	508.9	441.3	404.1
127.5°	696.7	709.3	759.5	809.7	759.5	709.3	696.7	609.6	493.4	435.3	403.0
130°	665.7	677.4	723.8	770.2	723.8	677.4	665.7	588.2	484.8	433.0	403.6
132.5°	639.4	649.8	691.3	732.9	691.3	649.8	639.4	569.9	477.3	431.0	404.1
135°	602.0	611.0	646.8	682.6	646.8	611.0	602.0	543.9	466.3	427.6	403.7
137.5°	574.4	581.8	611.1	640.5	611.1	581.8	574.4	525.2	459.7	427.0	406.2
140°	552.4	559.2	586.7	614.1	586.7	559.2	552.4	509.9	453.2	425.0	406.5
142.5°	536.9	542.8	566.4	590.0	566.4	542.8	536.9	499.6	449.8	425.0	408.0
145°	513.6	518.1	535.9	553.8	535.9	518.1	513.6	483.1	442.5	422.1	408.0
147.5°	494.1	497.8	512.6	527.4	512.6	497.8	494.1	470.1	438.2	422.1	410.8
150°	482.9	485.9	497.9	509.9	497.9	485.9	482.9	462.7	435.7	422.1	412.3
152.5°	474.1	476.4	485.3	494.4	485.3	476.4	474.1	456.8	433.7	422.1	413.2
155°	463.5	465.0	470.9	476.9	470.9	465.0	463.5	449.7	431.3	422.1	415.3
157.5°	454.2	455.2	459.5	463.7	459.5	455.2	454.2	443.5	429.3	422.1	417.4
160°	449.6	450.2	452.7	455.1	452.7	450.2	449.6	440.4	428.2	422.1	418.4
162.5°	445.3	445.9	448.2	450.5	448.2	445.9	445.3	437.6	427.3	422.1	419.4
165°	438.7	439.3	441.8	444.2	441.8	439.3	438.7	433.2	425.8	422.1	420.9
167.5°	435.9	436.1	437.1	438.2	437.1	436.1	435.9	432.2	427.4	425.0	423.9
170°	435.9	435.9	435.9	435.9	435.9	435.9	435.9	432.2	427.4	425.0	424.9
172.5°	433.6	433.4	432.4	431.6	432.4	433.4	433.6	430.7	426.9	425.0	425.0
175°	430.4	430.4	430.4	430.4	430.4	430.4	430.4	428.6	426.2	425.0	425.5
177.5°	429.8	429.6	428.6	427.6	428.6	429.6	429.8	428.4	426.5	425.5	426.0
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6

TEST NUMBER: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4001.1	4001.1	4001.1	4001.1	4001.1
2.5°	3951.9	3970.8	3982.2	3997.3	4035.2
5°	3800.5	3872.4	3895.2	3951.9	4020.1
7.5°	3467.4	3687.0	3747.5	3883.8	3989.7
10°	3145.6	3365.1	3471.1	3792.9	3951.9
12.5°	2982.8	3111.6	3183.5	3634.0	3898.9
15°	2880.7	2971.5	3024.5	3422.0	3838.3
17.5°	2801.1	2865.5	2903.4	3213.8	3755.1
20°	2751.9	2782.2	2816.3	3062.3	3660.4
22.5°	2717.8	2698.9	2725.5	2956.4	3531.7
25°	2695.2	2623.3	2653.6	2873.1	3380.3
27.5°	2714.1	2555.1	2566.5	2797.4	3221.3
30°	2717.8	2471.8	2475.6	2717.8	3043.4
32.5°	2691.4	2384.7	2388.6	2619.5	2842.7
35°	2627.0	2282.5	2278.8	2505.9	2570.3
37.5°	2539.9	2172.8	2172.8	2381.0	2271.2
40°	2434.0	2063.0	2074.4	2218.2	2006.3
42.5°	2305.3	1945.6	1960.8	2002.4	1809.4
45°	2165.2	1832.1	1843.4	1692.1	1658.0
47.5°	2010.0	1714.8	1718.5	1404.3	1608.8
50°	1824.5	1593.6	1578.5	1203.8	1605.0
52.5°	1661.8	1461.1	1415.7	1090.1	1457.3
55°	1502.8	1321.1	1222.7	1003.1	1351.3
57.5°	1362.7	1139.4	1044.8	900.9	1328.7
60°	1234.1	961.5	889.6	791.1	1218.9
62.5°	1128.0	829.0	813.9	715.4	1105.3
65°	1014.5	738.1	734.4	651.1	938.8
67.5°	904.7	677.6	673.8	590.5	715.4
70°	787.4	613.2	605.7	526.2	529.9
72.5°	666.2	541.3	533.7	473.2	439.1
75°	545.1	458.0	454.2	412.6	355.8
77.5°	427.7	363.4	370.9	333.1	261.2
80°	306.7	265.0	272.6	238.5	196.8
82.5°	204.4	174.1	181.7	151.4	132.5
85°	113.5	98.5	102.2	79.5	60.5
87.5°	53.0	45.5	45.5	30.3	18.9
90°	12.6	8.0	7.4	5.2	2.9
92.5°	77.8	55.4	50.5	30.9	11.5
95°	191.6	107.9	98.9	63.2	27.5
97.5°	258.0	118.5	110.7	79.2	47.7
100°	282.3	127.4	120.2	91.7	63.1
102.5°	293.4	136.3	129.6	102.9	76.3
105°	301.6	149.5	143.8	121.3	98.7
107.5°	303.1	169.0	163.8	142.7	121.7
110°	300.8	179.9	175.1	156.1	137.1



TEST NUMBER: P934101

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	300.9	193.1	188.6	170.5	152.4
115°	303.7	213.0	208.8	192.1	175.3
117.5°	309.3	232.2	228.3	213.2	198.0
120°	313.9	243.3	239.8	225.5	211.2
122.5°	320.5	256.5	252.9	238.6	224.1
125°	329.5	273.5	270.3	257.1	243.9
127.5°	338.4	289.8	286.5	273.2	260.0
130°	344.9	300.7	297.2	282.9	268.5
132.5°	350.1	309.6	306.1	291.8	277.5
135°	355.8	319.9	316.7	303.7	290.7
137.5°	364.4	333.1	329.9	317.1	304.2
140°	369.7	342.1	339.1	327.2	315.3
142.5°	374.1	348.7	345.9	334.9	323.9
145°	379.8	358.7	356.3	346.8	337.2
147.5°	388.2	371.3	369.0	359.7	350.4
150°	392.6	377.9	375.8	367.4	359.0
152.5°	395.5	382.2	380.6	374.3	367.9
155°	401.8	391.6	390.5	385.7	381.0
157.5°	408.2	401.2	400.0	395.4	390.8
160°	411.0	405.5	404.6	401.0	397.5
162.5°	414.1	410.1	409.4	406.7	404.1
165°	418.5	416.7	416.1	413.6	411.2
167.5°	421.9	420.4	420.1	419.0	417.8
170°	424.8	424.7	424.4	423.3	422.1
172.5°	425.0	425.0	424.9	424.7	424.4
175°	426.7	427.6	427.6	427.6	427.6
177.5°	426.9	427.6	427.6	427.6	427.6
180°	427.6	427.6	427.6	427.6	427.6

(END OF REPORT)