

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: P934001

Luminaire Tested: SQ4-FA-025U-075D-B40-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934001
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-B40-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

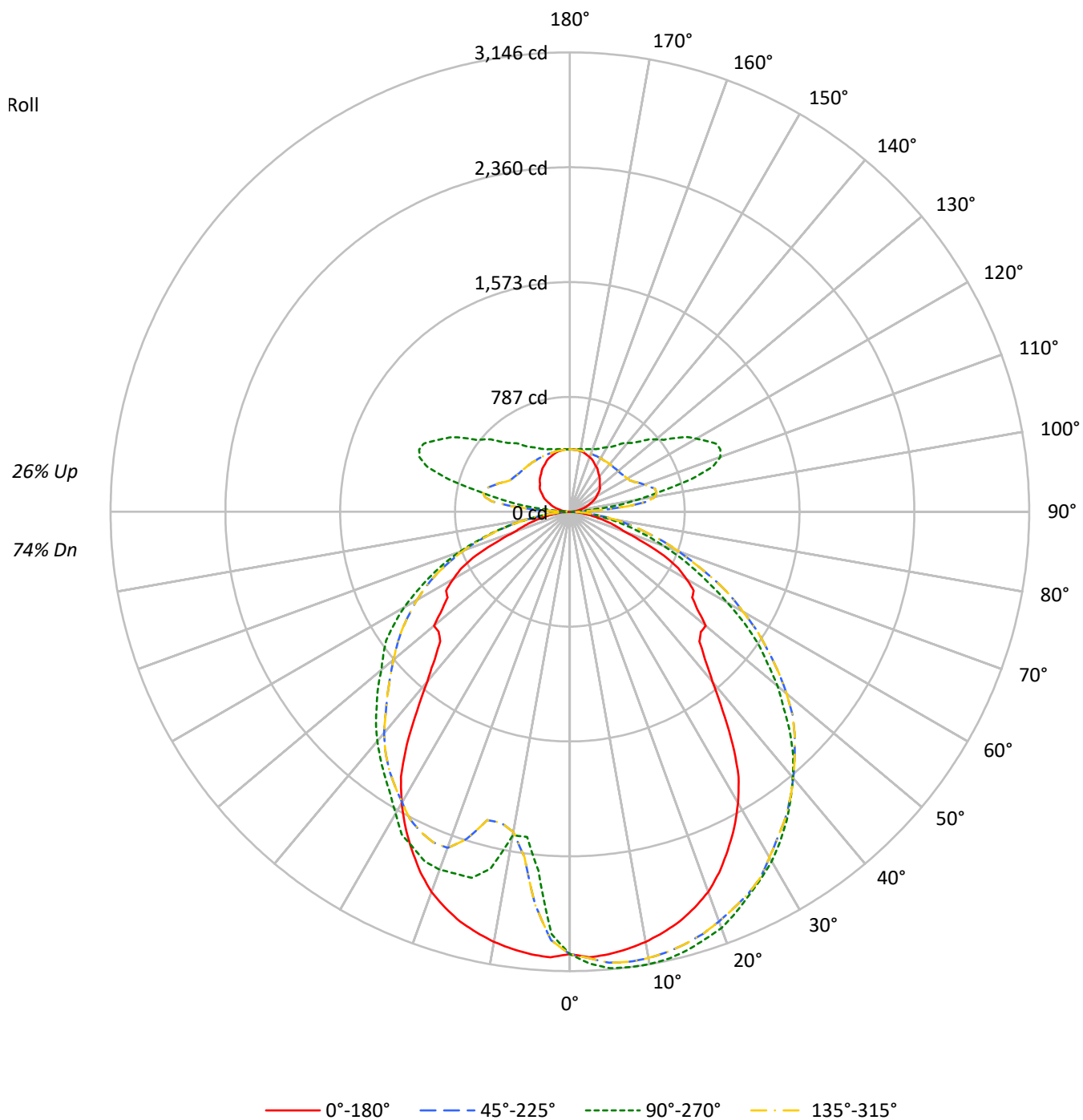
Lumens per Lamp: N/A
Luminaire Lumens: 10625.2 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

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°	9367	9367	9367	9367
5°	9440	9456	9440	7435
10°	9381	9314	9381	6659
15°	9282	9112	9282	7609
20°	9092	8873	9092	7625
25°	8698	8525	8698	7463
30°	8188	8235	8188	7108
35°	7303	7869	7303	6719
40°	6088	7438	6088	6424
45°	5444	6933	5444	6085
50°	5788	6332	5788	5745
55°	5451	5683	5451	5548
60°	5626	4827	5626	5082
65°	5109	3990	5109	4460
70°	3546	3180	3546	3739
75°	3121	2351	3121	2815
80°	2534	1554	2534	1692
85°	1484	823	1484	700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 8338 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.4	2.6
10°-20°	776.2	7.3
20°-30°	1199.8	11.3
30°-40°	1432.3	13.5
40°-50°	1440.7	13.6
50°-60°	1253.5	11.8
60°-70°	888.8	8.4
70°-80°	470.2	4.4
80°-90°	118.7	1.1
90°-100°	208.4	2.0
100°-110°	547.9	5.2
110°-120°	568.1	5.3
120°-130°	455.7	4.3
130°-140°	357.6	3.4
140°-150°	274.5	2.6
150°-160°	197.7	1.9
160°-170°	120.9	1.1
170°-180°	40.9	0.4
0°-30°	2249.3	21.2
0°-40°	3681.6	34.6
0°-60°	6375.8	60.0
0°-90°	7853.6	73.9
90°-120°	1324.5	12.5
90°-150°	2412.2	22.7
90°-180°	2772.0	26.1
0°-180°	10625.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3028	3028	3028	3028	3028	
5°	3043	3137	3043	2467	3043	289
15°	2905	3109	2905	2596	2905	817
25°	2558	2900	2558	2538	2558	1175
35°	1945	2587	1945	2209	1945	1204
45°	1255	2132	1255	1871	1255	1005
55°	1023	1573	1023	1536	1023	940
65°	710	948	710	1060	710	679
75°	269	450	269	539	269	283
85°	46	115	46	97	46	62
90°	3	11	3	11	3	4
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	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4
2.5°	3054.2	3054.2	3071.4	3077.1	3077.1	3068.5	3059.9	3068.5	3094.3	3102.9	3100.0
5°	3042.7	3065.6	3097.2	3102.9	3108.6	3105.8	3100.0	3105.8	3134.4	3140.1	3143.0
7.5°	3019.8	3062.8	3102.9	3111.5	3120.1	3111.5	3108.6	3114.4	3143.0	3148.7	3148.7
10°	2991.2	3051.3	3097.2	3102.9	3111.5	3102.9	3102.9	3114.4	3143.0	3148.7	3151.6
12.5°	2951.0	3034.1	3077.1	3082.8	3094.3	3091.4	3088.6	3100.0	3128.7	3134.4	3134.4
15°	2905.2	3002.6	3042.7	3048.5	3068.5	3062.8	3062.8	3074.2	3105.8	3114.4	3111.5
17.5°	2842.2	2962.5	3008.3	3016.9	3031.3	3028.4	3031.3	3042.7	3071.4	3077.1	3080.0
20°	2770.6	2908.1	2962.5	2971.1	2985.4	2985.4	2985.4	2999.8	3028.4	3039.9	3039.9
22.5°	2673.1	2850.8	2908.1	2913.8	2931.0	2931.0	2936.7	2956.8	2982.6	2985.4	2985.4
25°	2558.5	2787.7	2836.4	2853.6	2870.8	2879.4	2888.0	2899.5	2908.1	2905.2	2908.1
27.5°	2438.1	2707.5	2770.6	2782.0	2804.9	2813.5	2825.0	2827.9	2830.7	2839.3	2833.6
30°	2303.5	2595.8	2690.3	2701.8	2739.0	2744.8	2733.3	2739.0	2753.4	2759.1	2764.8
32.5°	2151.6	2429.5	2607.2	2633.0	2667.4	2650.2	2647.4	2656.0	2678.9	2678.9	2684.6
35°	1945.3	2300.6	2529.9	2552.8	2578.6	2558.5	2570.0	2572.9	2587.2	2595.8	2592.9
37.5°	1719.0	2188.9	2449.6	2466.8	2486.8	2461.0	2478.2	2486.8	2498.3	2492.5	2492.5
40°	1518.4	2014.1	2355.0	2366.5	2383.7	2363.6	2380.8	2386.5	2392.3	2386.5	2383.7
42.5°	1369.5	1822.1	2254.8	2269.1	2257.6	2271.9	2277.7	2289.1	2280.5	2269.1	2269.1
45°	1254.9	1770.6	2145.9	2163.1	2145.9	2168.8	2177.4	2177.4	2151.6	2145.9	2143.0
47.5°	1217.6	1667.4	2037.0	2037.0	2028.4	2057.1	2071.4	2051.3	2025.6	2017.0	2017.0
50°	1214.8	1552.8	1888.0	1876.6	1916.7	1951.1	1936.7	1916.7	1896.6	1865.1	1865.1
52.5°	1103.0	1412.4	1696.1	1739.1	1802.1	1822.1	1799.2	1779.2	1744.8	1730.5	1719.0
55°	1022.8	1266.3	1521.3	1607.3	1673.2	1698.9	1656.0	1635.9	1584.3	1575.8	1570.0
57.5°	1005.6	1054.3	1360.9	1469.7	1550.0	1547.1	1521.3	1484.1	1441.1	1432.5	1429.6
60°	922.5	762.1	1189.0	1317.9	1401.0	1392.4	1369.5	1335.1	1295.0	1289.2	1283.5
62.5°	836.6	552.9	994.2	1140.3	1257.7	1254.9	1234.8	1183.2	1154.6	1140.3	1128.8
65°	710.5	464.1	707.7	948.3	1117.4	1123.1	1080.1	1042.9	1011.3	994.2	991.3
67.5°	541.5	378.2	478.5	790.7	982.7	977.0	922.5	905.3	865.2	856.6	839.4
70°	401.1	252.1	332.3	641.8	850.9	836.6	793.6	773.6	736.3	716.2	704.8
72.5°	332.3	203.4	243.5	498.5	716.2	699.1	661.8	638.9	607.4	590.2	578.7
75°	269.3	214.9	186.2	369.6	581.6	570.1	535.8	512.8	487.0	464.1	467.0
77.5°	197.7	200.5	149.0	272.2	461.3	444.1	424.0	395.4	383.9	361.0	361.0
80°	149.0	157.6	111.7	186.2	332.3	332.3	315.2	295.1	275.0	263.6	263.6
82.5°	100.3	100.3	83.1	117.5	226.3	217.7	206.3	200.5	189.1	183.4	183.4
85°	45.8	57.3	51.6	71.6	123.2	128.9	128.9	123.2	120.3	114.6	117.5
87.5°	14.3	25.8	31.5	40.1	63.0	65.9	68.8	68.8	68.8	71.6	71.6
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

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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

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4
2.5°	3105.8	3097.2	3105.8	3100.0	3102.9	3094.3	3068.5	3059.9	3068.5	3077.1	3077.1
5°	3143.0	3137.3	3143.0	3143.0	3140.1	3134.4	3105.8	3100.0	3105.8	3108.6	3102.9
7.5°	3154.5	3145.9	3154.5	3148.7	3148.7	3143.0	3114.4	3108.6	3111.5	3120.1	3111.5
10°	3154.5	3145.9	3154.5	3151.6	3148.7	3143.0	3114.4	3102.9	3102.9	3111.5	3102.9
12.5°	3140.1	3134.4	3140.1	3134.4	3134.4	3128.7	3100.0	3088.6	3091.4	3094.3	3082.8
15°	3117.2	3108.6	3117.2	3111.5	3114.4	3105.8	3074.2	3062.8	3062.8	3068.5	3048.5
17.5°	3082.8	3071.4	3082.8	3080.0	3077.1	3071.4	3042.7	3031.3	3028.4	3031.3	3016.9
20°	3042.7	3034.1	3042.7	3039.9	3039.9	3028.4	2999.8	2985.4	2985.4	2985.4	2971.1
22.5°	2979.7	2971.1	2979.7	2985.4	2985.4	2982.6	2956.8	2936.7	2931.0	2931.0	2913.8
25°	2908.1	2899.5	2908.1	2908.1	2905.2	2908.1	2899.5	2888.0	2879.4	2870.8	2853.6
27.5°	2839.3	2833.6	2839.3	2833.6	2839.3	2830.7	2827.9	2825.0	2813.5	2804.9	2782.0
30°	2770.6	2764.8	2770.6	2764.8	2759.1	2753.4	2739.0	2733.3	2744.8	2739.0	2701.8
32.5°	2684.6	2678.9	2684.6	2684.6	2678.9	2678.9	2656.0	2647.4	2650.2	2667.4	2633.0
35°	2595.8	2587.2	2595.8	2592.9	2595.8	2587.2	2572.9	2570.0	2558.5	2578.6	2552.8
37.5°	2492.5	2484.0	2492.5	2492.5	2492.5	2498.3	2486.8	2478.2	2461.0	2486.8	2466.8
40°	2386.5	2375.1	2386.5	2383.7	2386.5	2392.3	2386.5	2380.8	2363.6	2383.7	2366.5
42.5°	2266.2	2263.4	2266.2	2269.1	2269.1	2280.5	2289.1	2277.7	2271.9	2257.6	2269.1
45°	2137.3	2131.6	2137.3	2143.0	2145.9	2151.6	2177.4	2177.4	2168.8	2145.9	2163.1
47.5°	1999.8	1985.4	1999.8	2017.0	2017.0	2025.6	2051.3	2071.4	2057.1	2028.4	2037.0
50°	1853.7	1856.5	1853.7	1865.1	1865.1	1896.6	1916.7	1936.7	1951.1	1916.7	1876.6
52.5°	1710.4	1707.5	1710.4	1719.0	1730.5	1744.8	1779.2	1799.2	1822.1	1802.1	1739.1
55°	1567.2	1572.9	1567.2	1570.0	1575.8	1584.3	1635.9	1656.0	1698.9	1673.2	1607.3
57.5°	1423.9	1415.3	1423.9	1429.6	1432.5	1441.1	1484.1	1521.3	1547.1	1550.0	1469.7
60°	1257.7	1246.3	1257.7	1283.5	1289.2	1295.0	1335.1	1369.5	1392.4	1401.0	1317.9
62.5°	1111.6	1091.6	1111.6	1128.8	1140.3	1154.6	1183.2	1234.8	1254.9	1257.7	1140.3
65°	956.9	948.3	956.9	991.3	994.2	1011.3	1042.9	1080.1	1123.1	1117.4	948.3
67.5°	816.5	816.5	816.5	839.4	856.6	865.2	905.3	922.5	977.0	982.7	790.7
70°	687.6	684.7	687.6	704.8	716.2	736.3	773.6	793.6	836.6	850.9	641.8
72.5°	564.4	561.5	564.4	578.7	590.2	607.4	638.9	661.8	699.1	716.2	498.5
75°	455.5	449.8	455.5	467.0	464.1	487.0	512.8	535.8	570.1	581.6	369.6
77.5°	349.5	349.5	349.5	361.0	361.0	383.9	395.4	424.0	444.1	461.3	272.2
80°	260.7	257.8	260.7	263.6	263.6	275.0	295.1	315.2	332.3	332.3	186.2
82.5°	183.4	177.6	183.4	183.4	183.4	189.1	200.5	206.3	217.7	226.3	117.5
85°	114.6	114.6	114.6	117.5	114.6	120.3	123.2	128.9	128.9	123.2	71.6
87.5°	74.5	71.6	74.5	71.6	71.6	68.8	68.8	68.8	65.9	63.0	40.1
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: P934001

CATALOG NUMBER: SQ4-FA-025U-075D-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: P934001

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4
2.5°	3071.4	3054.2	3054.2	3025.5	3014.1	3005.5	2991.2	2948.2	2936.7	2925.3	2942.5
5°	3097.2	3065.6	3042.7	2991.2	2948.2	2931.0	2876.6	2773.4	2704.7	2653.1	2624.4
7.5°	3102.9	3062.8	3019.8	2939.6	2836.4	2790.6	2624.4	2435.2	2383.7	2337.8	2309.2
10°	3097.2	3051.3	2991.2	2870.8	2627.3	2547.1	2380.8	2257.6	2226.1	2217.5	2226.1
12.5°	3077.1	3034.1	2951.0	2750.5	2409.5	2355.0	2257.6	2186.0	2180.3	2194.6	2271.9
15°	3042.7	3002.6	2905.2	2590.1	2289.1	2249.0	2180.3	2154.5	2186.0	2286.3	2518.3
17.5°	3008.3	2962.5	2842.2	2432.4	2197.5	2168.8	2120.1	2171.7	2349.3	2484.0	2561.4
20°	2962.5	2908.1	2770.6	2317.8	2131.6	2105.8	2082.9	2314.9	2449.6	2498.3	2541.4
22.5°	2908.1	2850.8	2673.1	2237.6	2062.8	2042.7	2057.1	2395.1	2449.6	2484.0	2521.2
25°	2836.4	2787.7	2558.5	2174.5	2008.4	1985.4	2039.9	2386.5	2418.1	2426.7	2501.1
27.5°	2770.6	2707.5	2438.1	2117.2	1942.5	1933.9	2054.2	2349.3	2372.2	2380.8	2461.0
30°	2690.3	2595.8	2303.5	2057.1	1873.7	1870.8	2057.1	2303.5	2297.7	2320.6	2400.9
32.5°	2607.2	2429.5	2151.6	1982.6	1807.8	1805.0	2037.0	2234.7	2229.0	2260.5	2320.6
35°	2529.9	2300.6	1945.3	1896.6	1724.7	1727.6	1988.3	2154.5	2157.3	2186.0	2223.2
37.5°	2449.6	2188.9	1719.0	1802.1	1644.5	1644.5	1922.4	2080.0	2074.3	2082.9	2134.4
40°	2355.0	2014.1	1518.4	1678.9	1570.0	1561.4	1842.2	1999.8	1979.7	1976.8	2048.5
42.5°	2254.8	1822.1	1369.5	1515.6	1484.1	1472.6	1744.8	1902.4	1865.1	1873.7	1965.4
45°	2145.9	1770.6	1254.9	1280.7	1395.3	1386.7	1638.8	1790.6	1764.8	1787.8	1882.3
47.5°	2037.0	1667.4	1217.6	1062.9	1300.7	1297.8	1521.3	1681.8	1667.4	1690.4	1790.6
50°	1888.0	1552.8	1214.8	911.1	1194.7	1206.2	1380.9	1575.8	1575.8	1595.8	1701.8
52.5°	1696.1	1412.4	1103.0	825.1	1071.5	1105.9	1257.7	1484.1	1489.8	1509.9	1604.4
55°	1521.3	1266.3	1022.8	759.2	925.4	999.9	1137.4	1389.5	1401.0	1421.0	1507.0
57.5°	1360.9	1054.3	1005.6	681.9	790.7	862.4	1031.4	1297.8	1303.6	1320.8	1403.8
60°	1189.0	762.1	922.5	598.8	673.3	727.7	934.0	1189.0	1209.0	1220.5	1292.1
62.5°	994.2	552.9	836.6	541.5	616.0	627.4	853.8	1085.8	1111.6	1120.2	1163.2
65°	707.7	464.1	710.5	492.8	555.8	558.7	767.8	979.8	1002.8	1017.1	1048.6
67.5°	478.5	378.2	541.5	446.9	510.0	512.8	684.7	856.6	888.2	899.6	919.7
70°	332.3	252.1	401.1	398.2	458.4	464.1	595.9	744.9	773.6	782.1	793.6
72.5°	243.5	203.4	332.3	358.1	404.0	409.7	504.2	618.8	647.5	656.1	661.8
75°	186.2	214.9	269.3	312.3	343.8	346.7	412.6	504.2	524.3	530.0	532.9
77.5°	149.0	200.5	197.7	252.1	280.8	275.0	323.7	389.6	406.8	406.8	406.8
80°	111.7	157.6	149.0	180.5	206.3	200.5	232.1	277.9	283.6	289.4	286.5
82.5°	83.1	100.3	100.3	114.6	137.5	131.8	154.7	180.5	180.5	180.5	186.2
85°	51.6	57.3	45.8	60.2	77.4	74.5	86.0	97.4	100.3	100.3	94.5
87.5°	31.5	25.8	14.3	22.9	34.4	34.4	40.1	43.0	40.1	40.1	40.1
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: P934001

CATALOG NUMBER: SQ4-FA-025U-075D-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: P934001

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4	3028.4
2.5°	2922.4	2913.8	2925.3	2893.7	2925.3	2913.8	2922.4	2942.5	2925.3	2936.7	2948.2
5°	2564.3	2549.9	2504.0	2466.8	2504.0	2549.9	2564.3	2624.4	2653.1	2704.7	2773.4
7.5°	2292.0	2280.5	2269.1	2246.2	2269.1	2280.5	2292.0	2309.2	2337.8	2383.7	2435.2
10°	2231.8	2234.7	2251.9	2249.0	2251.9	2234.7	2231.8	2226.1	2217.5	2226.1	2257.6
12.5°	2386.5	2412.3	2506.9	2501.1	2506.9	2412.3	2386.5	2271.9	2194.6	2180.3	2186.0
15°	2564.3	2572.9	2592.9	2595.8	2592.9	2572.9	2564.3	2518.3	2286.3	2186.0	2154.5
17.5°	2581.5	2584.3	2598.7	2598.7	2598.7	2584.3	2581.5	2561.4	2484.0	2349.3	2171.7
20°	2567.1	2572.9	2601.5	2607.2	2601.5	2572.9	2567.1	2541.4	2498.3	2449.6	2314.9
22.5°	2561.4	2572.9	2595.8	2592.9	2595.8	2572.9	2561.4	2521.2	2484.0	2449.6	2395.1
25°	2532.8	2532.8	2535.6	2538.5	2535.6	2532.8	2532.8	2501.1	2426.7	2418.1	2386.5
27.5°	2472.5	2478.2	2495.4	2492.5	2495.4	2478.2	2472.5	2461.0	2380.8	2372.2	2349.3
30°	2418.1	2412.3	2398.0	2386.5	2398.0	2412.3	2418.1	2400.9	2320.6	2297.7	2303.5
32.5°	2326.4	2312.1	2297.7	2289.1	2297.7	2312.1	2326.4	2320.6	2260.5	2229.0	2234.7
35°	2217.5	2220.4	2217.5	2208.9	2217.5	2220.4	2217.5	2223.2	2186.0	2157.3	2154.5
37.5°	2140.2	2145.9	2143.0	2131.6	2143.0	2145.9	2140.2	2134.4	2082.9	2074.3	2080.0
40°	2059.9	2062.8	2059.9	2051.3	2059.9	2062.8	2059.9	2048.5	1976.8	1979.7	1999.8
42.5°	1982.6	1979.7	1971.1	1965.4	1971.1	1979.7	1982.6	1965.4	1873.7	1865.1	1902.4
45°	1893.8	1896.6	1879.4	1870.8	1879.4	1896.6	1893.8	1882.3	1787.8	1764.8	1790.6
47.5°	1805.0	1805.0	1790.6	1782.0	1790.6	1805.0	1805.0	1790.6	1690.4	1667.4	1681.8
50°	1710.4	1707.5	1687.5	1684.6	1687.5	1707.5	1710.4	1701.8	1595.8	1575.8	1575.8
52.5°	1601.5	1601.5	1604.4	1610.1	1604.4	1601.5	1601.5	1604.4	1509.9	1489.8	1484.1
55°	1507.0	1509.9	1529.9	1535.6	1529.9	1509.9	1507.0	1507.0	1421.0	1401.0	1389.5
57.5°	1409.6	1409.6	1423.9	1423.9	1423.9	1409.6	1409.6	1403.8	1320.8	1303.6	1297.8
60°	1297.8	1303.6	1315.0	1312.2	1315.0	1303.6	1297.8	1292.1	1220.5	1209.0	1189.0
62.5°	1180.4	1186.1	1189.0	1183.2	1189.0	1186.1	1180.4	1163.2	1120.2	1111.6	1085.8
65°	1057.2	1062.9	1065.8	1060.0	1065.8	1062.9	1057.2	1048.6	1017.1	1002.8	979.8
67.5°	931.1	928.3	925.4	936.9	925.4	928.3	931.1	919.7	899.6	888.2	856.6
70°	802.2	802.2	799.3	805.1	799.3	802.2	802.2	793.6	782.1	773.6	744.9
72.5°	664.7	661.8	673.3	664.7	673.3	661.8	664.7	661.8	656.1	647.5	618.8
75°	530.0	535.8	530.0	538.6	530.0	535.8	530.0	532.9	530.0	524.3	504.2
77.5°	404.0	409.7	404.0	404.0	404.0	409.7	404.0	406.8	406.8	406.8	389.6
80°	286.5	283.6	283.6	280.8	283.6	283.6	286.5	286.5	289.4	283.6	277.9
82.5°	183.4	180.5	180.5	186.2	180.5	180.5	183.4	186.2	180.5	180.5	180.5
85°	100.3	103.1	97.4	97.4	97.4	103.1	100.3	94.5	100.3	100.3	97.4
87.5°	37.2	34.4	34.4	34.4	34.4	34.4	37.2	40.1	40.1	40.1	43.0
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

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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: P934001

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3028.4	3028.4	3028.4	3028.4	3028.4
2.5°	2991.2	3005.5	3014.1	3025.5	3054.2
5°	2876.6	2931.0	2948.2	2991.2	3042.7
7.5°	2624.4	2790.6	2836.4	2939.6	3019.8
10°	2380.8	2547.1	2627.3	2870.8	2991.2
12.5°	2257.6	2355.0	2409.5	2750.5	2951.0
15°	2180.3	2249.0	2289.1	2590.1	2905.2
17.5°	2120.1	2168.8	2197.5	2432.4	2842.2
20°	2082.9	2105.8	2131.6	2317.8	2770.6
22.5°	2057.1	2042.7	2062.8	2237.6	2673.1
25°	2039.9	1985.4	2008.4	2174.5	2558.5
27.5°	2054.2	1933.9	1942.5	2117.2	2438.1
30°	2057.1	1870.8	1873.7	2057.1	2303.5
32.5°	2037.0	1805.0	1807.8	1982.6	2151.6
35°	1988.3	1727.6	1724.7	1896.6	1945.3
37.5°	1922.4	1644.5	1644.5	1802.1	1719.0
40°	1842.2	1561.4	1570.0	1678.9	1518.4
42.5°	1744.8	1472.6	1484.1	1515.6	1369.5
45°	1638.8	1386.7	1395.3	1280.7	1254.9
47.5°	1521.3	1297.8	1300.7	1062.9	1217.6
50°	1380.9	1206.2	1194.7	911.1	1214.8
52.5°	1257.7	1105.9	1071.5	825.1	1103.0
55°	1137.4	999.9	925.4	759.2	1022.8
57.5°	1031.4	862.4	790.7	681.9	1005.6
60°	934.0	727.7	673.3	598.8	922.5
62.5°	853.8	627.4	616.0	541.5	836.6
65°	767.8	558.7	555.8	492.8	710.5
67.5°	684.7	512.8	510.0	446.9	541.5
70°	595.9	464.1	458.4	398.2	401.1
72.5°	504.2	409.7	404.0	358.1	332.3
75°	412.6	346.7	343.8	312.3	269.3
77.5°	323.7	275.0	280.8	252.1	197.7
80°	232.1	200.5	206.3	180.5	149.0
82.5°	154.7	131.8	137.5	114.6	100.3
85°	86.0	74.5	77.4	60.2	45.8
87.5°	40.1	34.4	34.4	22.9	14.3
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: P934001

CATALOG NUMBER: SQ4-FA-025U-075D-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)