

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: P934104

Luminaire Tested: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934104
REPORT IS A COMBINATION OF REPORTS P933684 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-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

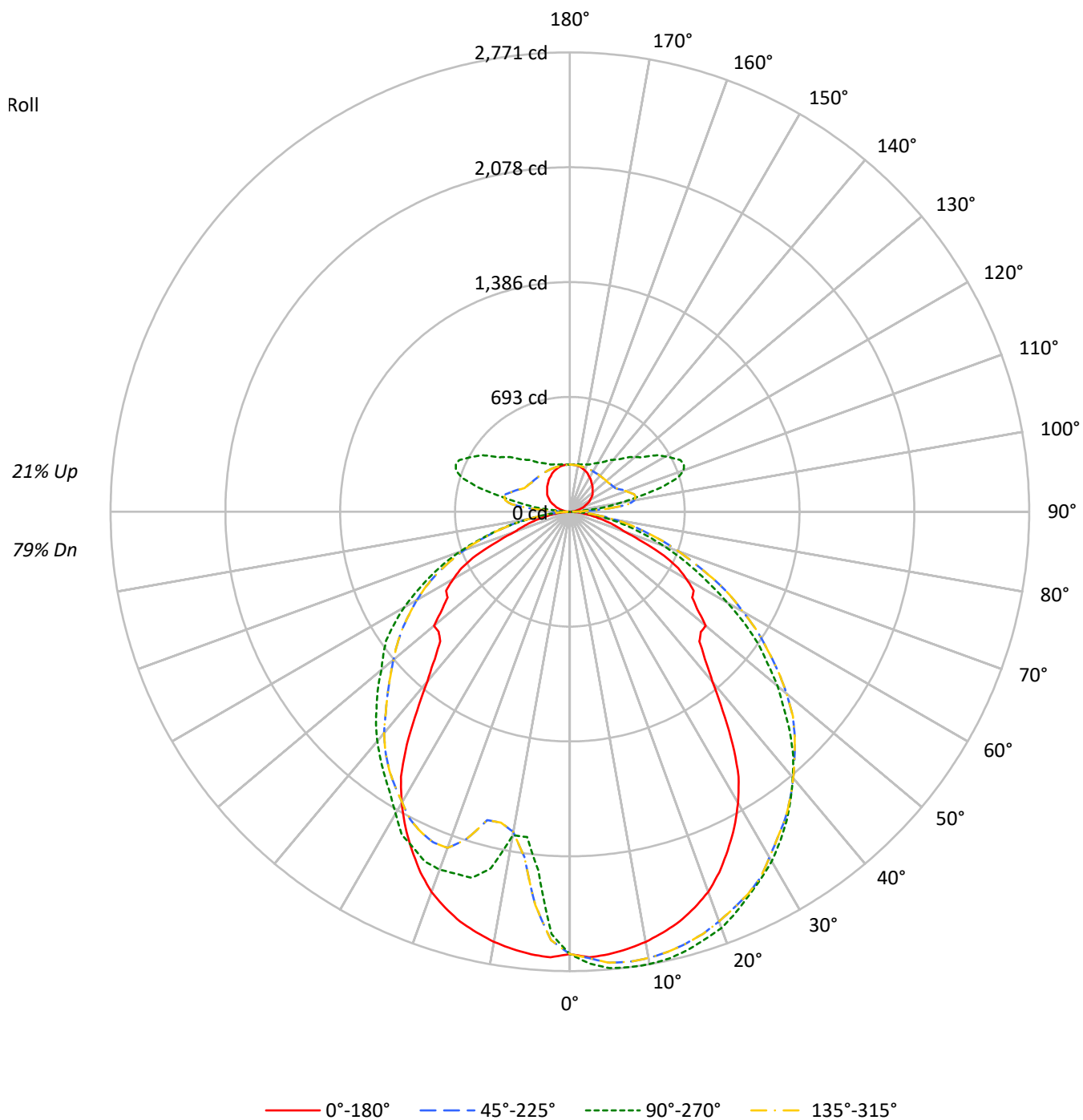
Lumens per Lamp: N/A
Luminaire Lumens: 8765.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 77.6
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	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°	12468	12493	12468	9823
10°	12385	12306	12385	8798
15°	12250	12039	12250	10053
20°	11994	11724	11994	10074
25°	11469	11263	11469	9860
30°	10792	10880	10792	9392
35°	9621	10397	9621	8877
40°	8017	9827	8017	8488
45°	7163	9160	7163	8040
50°	7610	8365	7610	7591
55°	7160	7509	7160	7331
60°	7381	6378	7381	6715
65°	6691	5272	6691	5893
70°	4634	4202	4634	4939
75°	4063	3106	4063	3719
80°	3273	2053	3273	2236
85°	1882	1087	1882	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 10978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.8	2.7
10°-20°	683.6	7.8
20°-30°	1056.8	12.1
30°-40°	1261.6	14.4
40°-50°	1269.0	14.5
50°-60°	1104.2	12.6
60°-70°	782.9	8.9
70°-80°	414.2	4.7
80°-90°	104.2	1.2
90°-100°	138.9	1.6
100°-110°	365.3	4.2
110°-120°	378.8	4.3
120°-130°	303.8	3.5
130°-140°	238.4	2.7
140°-150°	183.0	2.1
150°-160°	131.8	1.5
160°-170°	80.6	0.9
170°-180°	27.2	0.3
0°-30°	1981.2	22.6
0°-40°	3242.8	37.0
0°-60°	5615.9	64.1
0°-90°	6917.2	78.9
90°-120°	883.0	10.1
90°-150°	1608.2	18.3
90°-180°	1848.0	21.1
0°-180°	8765.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2667	2667	2667	2667	2667	
5°	2680	2763	2680	2173	2680	254
15°	2559	2738	2559	2286	2559	720
25°	2254	2554	2254	2236	2254	1035
35°	1714	2279	1714	1946	1714	1060
45°	1105	1878	1105	1648	1105	885
55°	901	1385	901	1353	901	828
65°	626	835	626	934	626	598
75°	237	396	237	474	237	249
85°	40	101	40	86	40	55
90°	2	7	2	7	2	3
95°	18	84	18	84	18	20
105°	66	572	66	572	66	70
115°	117	736	117	736	117	115
125°	163	587	163	587	163	144
135°	194	455	194	455	194	150
145°	225	369	225	369	225	141
155°	254	318	254	318	254	117
165°	274	296	274	296	274	77
175°	285	287	285	287	285	27
180°	285	285	285	285	285	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4
2.5°	2690.1	2690.1	2705.2	2710.3	2710.3	2702.7	2695.2	2702.7	2725.5	2733.0	2730.5
5°	2680.0	2700.2	2728.0	2733.0	2738.1	2735.5	2730.5	2735.5	2760.8	2765.9	2768.4
7.5°	2659.9	2697.7	2733.0	2740.6	2748.2	2740.6	2738.1	2743.1	2768.4	2773.4	2773.4
10°	2634.6	2687.6	2728.0	2733.0	2740.6	2733.0	2733.0	2743.1	2768.4	2773.4	2775.9
12.5°	2599.2	2672.5	2710.3	2715.4	2725.5	2722.9	2720.4	2730.5	2755.7	2760.8	2760.8
15°	2558.9	2644.7	2680.0	2685.1	2702.7	2697.7	2697.7	2707.8	2735.5	2743.1	2740.6
17.5°	2503.3	2609.3	2649.7	2657.3	2669.9	2667.4	2669.9	2680.0	2705.2	2710.3	2712.9
20°	2440.3	2561.4	2609.3	2616.9	2629.6	2629.6	2629.6	2642.2	2667.4	2677.5	2677.5
22.5°	2354.5	2511.0	2561.4	2566.5	2581.6	2581.6	2586.6	2604.3	2627.0	2629.6	2629.6
25°	2253.5	2455.4	2498.3	2513.5	2528.6	2536.2	2543.7	2553.9	2561.4	2558.9	2561.4
27.5°	2147.5	2384.7	2440.3	2450.3	2470.6	2478.1	2488.3	2490.7	2493.3	2500.9	2495.8
30°	2028.9	2286.4	2369.6	2379.8	2412.5	2417.6	2407.5	2412.5	2425.1	2430.2	2435.2
32.5°	1895.2	2140.0	2296.5	2319.1	2349.4	2334.3	2331.7	2339.4	2359.5	2359.5	2364.6
35°	1713.5	2026.4	2228.3	2248.5	2271.2	2253.5	2263.6	2266.1	2278.8	2286.4	2283.8
37.5°	1514.2	1928.0	2157.6	2172.8	2190.5	2167.8	2182.8	2190.5	2200.5	2195.5	2195.5
40°	1337.5	1774.1	2074.4	2084.5	2099.6	2081.9	2097.1	2102.1	2107.2	2102.1	2099.6
42.5°	1206.3	1605.0	1986.0	1998.6	1988.6	2001.2	2006.3	2016.3	2008.7	1998.6	1998.6
45°	1105.3	1559.5	1890.1	1905.3	1890.1	1910.4	1917.9	1917.9	1895.2	1890.1	1887.7
47.5°	1072.6	1468.7	1794.3	1794.3	1786.7	1811.9	1824.5	1806.9	1784.1	1776.6	1776.6
50°	1070.0	1367.8	1663.0	1652.9	1688.2	1718.5	1705.9	1688.2	1670.6	1642.8	1642.8
52.5°	971.6	1244.1	1493.9	1531.8	1587.3	1605.0	1584.8	1567.2	1536.9	1524.3	1514.2
55°	900.9	1115.4	1340.1	1415.7	1473.8	1496.5	1458.6	1441.0	1395.5	1388.0	1382.9
57.5°	885.8	928.6	1198.7	1294.6	1365.3	1362.7	1340.1	1307.2	1269.4	1261.7	1259.3
60°	812.6	671.3	1047.3	1160.8	1234.1	1226.4	1206.3	1176.0	1140.7	1135.6	1130.5
62.5°	736.9	487.0	875.6	1004.4	1107.8	1105.3	1087.6	1042.2	1017.0	1004.4	994.3
65°	625.8	408.8	623.3	835.3	984.2	989.2	951.4	918.6	890.8	875.6	873.2
67.5°	476.9	333.1	421.4	696.5	865.6	860.6	812.6	797.4	762.1	754.5	739.4
70°	353.3	222.0	292.7	565.3	749.5	736.9	699.1	681.4	648.5	630.9	620.8
72.5°	292.7	179.2	214.5	439.1	630.9	615.8	582.9	562.8	535.0	519.8	509.8
75°	237.2	189.3	164.1	325.6	512.3	502.2	471.9	451.7	429.0	408.8	411.3
77.5°	174.1	176.7	131.2	239.7	406.3	391.2	373.5	348.3	338.2	318.0	318.0
80°	131.2	138.8	98.5	164.1	292.7	292.7	277.6	260.0	242.3	232.2	232.2
82.5°	88.3	88.3	73.2	103.4	199.4	191.8	181.7	176.7	166.6	161.5	161.5
85°	40.4	50.4	45.5	63.1	108.5	113.5	113.5	108.5	106.0	100.9	103.4
87.5°	12.6	22.7	27.8	35.3	55.5	58.1	60.5	60.5	60.5	63.1	63.1
90°	1.9	3.4	5.0	5.3	8.4	12.5	14.5	12.9	9.6	7.3	7.3
92.5°	7.6	20.6	33.7	37.0	52.0	71.9	81.8	71.7	51.6	36.4	35.0
95°	18.3	42.1	66.0	71.9	127.7	202.1	239.3	213.5	162.1	123.4	119.0
97.5°	31.8	52.8	73.7	79.0	172.0	296.0	358.1	341.9	309.3	284.9	276.6
100°	42.1	61.1	80.1	84.9	188.1	325.8	394.6	395.8	398.2	400.0	390.1
102.5°	50.9	68.7	86.4	90.8	195.6	335.2	405.0	425.7	467.2	498.3	489.8
105°	65.8	80.9	96.0	99.7	201.1	336.3	403.9	450.4	543.4	613.1	608.5
107.5°	81.1	95.1	109.2	112.7	202.1	321.3	380.9	445.7	575.5	672.8	673.9
110°	91.5	104.1	116.8	119.9	200.5	308.0	361.8	434.2	579.3	688.1	692.9

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	101.6	113.6	125.7	128.7	200.6	296.4	344.4	418.6	567.0	678.3	685.7
115°	116.9	128.0	139.1	141.9	202.5	283.2	323.5	395.0	538.0	645.3	655.4
117.5°	132.0	142.1	152.2	154.8	206.3	274.8	309.1	373.7	502.7	599.5	610.8
120°	140.8	150.3	159.9	162.3	209.3	272.1	303.4	362.3	480.3	568.7	579.6
122.5°	149.4	159.0	168.7	171.0	213.7	270.6	299.0	352.1	458.3	538.0	548.7
125°	162.6	171.4	180.1	182.3	219.6	269.4	294.2	339.3	429.6	497.2	507.1
127.5°	173.3	182.1	191.0	193.2	225.6	268.6	290.2	329.0	406.4	464.5	472.9
130°	179.1	188.6	198.1	200.5	229.9	269.1	288.7	323.2	392.1	443.8	451.5
132.5°	185.0	194.5	204.0	206.4	233.4	269.4	287.4	318.2	379.9	426.2	433.2
135°	193.8	202.5	211.2	213.3	237.2	269.1	285.1	310.9	362.6	401.4	407.3
137.5°	202.7	211.3	219.9	222.1	243.0	270.7	284.7	306.6	350.2	383.0	387.8
140°	210.2	218.1	226.0	228.1	246.5	271.0	283.3	302.3	340.0	368.2	372.8
142.5°	216.0	223.3	230.6	232.4	249.4	272.1	283.3	300.0	333.1	357.9	361.8
145°	224.8	231.2	237.5	239.1	253.3	272.1	281.4	295.0	322.1	342.5	345.4
147.5°	233.6	239.8	246.0	247.5	258.8	273.9	281.4	292.1	313.4	329.4	331.9
150°	239.3	245.0	250.5	251.9	261.8	274.8	281.4	290.4	308.5	321.9	323.9
152.5°	245.2	249.4	253.7	254.8	263.7	275.5	281.4	289.1	304.5	316.0	317.5
155°	254.0	257.2	260.3	261.1	267.9	277.0	281.4	287.6	299.8	308.9	309.9
157.5°	260.5	263.6	266.6	267.4	272.1	278.3	281.4	286.2	295.7	302.8	303.5
160°	264.9	267.3	269.7	270.3	274.0	279.0	281.4	285.5	293.7	299.8	300.2
162.5°	269.3	271.1	272.8	273.3	276.0	279.6	281.4	284.9	291.8	296.9	297.3
165°	274.2	275.8	277.4	277.8	279.1	280.7	281.4	283.9	288.8	292.5	292.9
167.5°	278.6	279.3	280.1	280.3	281.3	282.7	283.3	285.0	288.2	290.6	290.8
170°	281.4	282.2	283.0	283.2	283.3	283.3	283.3	285.0	288.2	290.6	290.6
172.5°	283.0	283.2	283.3	283.3	283.3	283.3	283.3	284.6	287.2	289.1	288.9
175°	285.1	285.1	285.1	285.1	284.5	283.7	283.3	284.1	285.7	287.0	287.0
177.5°	285.1	285.1	285.1	285.1	284.6	284.0	283.7	284.4	285.6	286.6	286.4
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4
2.5°	2735.5	2728.0	2735.5	2730.5	2733.0	2725.5	2702.7	2695.2	2702.7	2710.3	2710.3
5°	2768.4	2763.3	2768.4	2768.4	2765.9	2760.8	2735.5	2730.5	2735.5	2738.1	2733.0
7.5°	2778.5	2770.8	2778.5	2773.4	2773.4	2768.4	2743.1	2738.1	2740.6	2748.2	2740.6
10°	2778.5	2770.8	2778.5	2775.9	2773.4	2768.4	2743.1	2733.0	2733.0	2740.6	2733.0
12.5°	2765.9	2760.8	2765.9	2760.8	2760.8	2755.7	2730.5	2720.4	2722.9	2725.5	2715.4
15°	2745.6	2738.1	2745.6	2740.6	2743.1	2735.5	2707.8	2697.7	2697.7	2702.7	2685.1
17.5°	2715.4	2705.2	2715.4	2712.9	2710.3	2705.2	2680.0	2669.9	2667.4	2669.9	2657.3
20°	2680.0	2672.5	2680.0	2677.5	2677.5	2667.4	2642.2	2629.6	2629.6	2629.6	2616.9
22.5°	2624.5	2616.9	2624.5	2629.6	2629.6	2627.0	2604.3	2586.6	2581.6	2581.6	2566.5
25°	2561.4	2553.9	2561.4	2561.4	2558.9	2561.4	2553.9	2543.7	2536.2	2528.6	2513.5
27.5°	2500.9	2495.8	2500.9	2495.8	2500.9	2493.3	2490.7	2488.3	2478.1	2470.6	2450.3
30°	2440.3	2435.2	2440.3	2435.2	2430.2	2425.1	2412.5	2407.5	2417.6	2412.5	2379.8
32.5°	2364.6	2359.5	2364.6	2364.6	2359.5	2359.5	2339.4	2331.7	2334.3	2349.4	2319.1
35°	2286.4	2278.8	2286.4	2283.8	2286.4	2278.8	2266.1	2263.6	2253.5	2271.2	2248.5
37.5°	2195.5	2187.9	2195.5	2195.5	2195.5	2200.5	2190.5	2182.8	2167.8	2190.5	2172.8
40°	2102.1	2092.0	2102.1	2099.6	2102.1	2107.2	2102.1	2097.1	2081.9	2099.6	2084.5
42.5°	1996.1	1993.7	1996.1	1998.6	1998.6	2008.7	2016.3	2006.3	2001.2	1988.6	1998.6
45°	1882.6	1877.5	1882.6	1887.7	1890.1	1895.2	1917.9	1917.9	1910.4	1890.1	1905.3
47.5°	1761.4	1748.8	1761.4	1776.6	1776.6	1784.1	1806.9	1824.5	1811.9	1786.7	1794.3
50°	1632.8	1635.2	1632.8	1642.8	1642.8	1670.6	1688.2	1705.9	1718.5	1688.2	1652.9
52.5°	1506.6	1504.0	1506.6	1514.2	1524.3	1536.9	1567.2	1584.8	1605.0	1587.3	1531.8
55°	1380.4	1385.4	1380.4	1382.9	1388.0	1395.5	1441.0	1458.6	1496.5	1473.8	1415.7
57.5°	1254.2	1246.7	1254.2	1259.3	1261.7	1269.4	1307.2	1340.1	1362.7	1365.3	1294.6
60°	1107.8	1097.8	1107.8	1130.5	1135.6	1140.7	1176.0	1206.3	1226.4	1234.1	1160.8
62.5°	979.2	961.5	979.2	994.3	1004.4	1017.0	1042.2	1087.6	1105.3	1107.8	1004.4
65°	842.9	835.3	842.9	873.2	875.6	890.8	918.6	951.4	989.2	984.2	835.3
67.5°	719.2	719.2	719.2	739.4	754.5	762.1	797.4	812.6	860.6	865.6	696.5
70°	605.7	603.2	605.7	620.8	630.9	648.5	681.4	699.1	736.9	749.5	565.3
72.5°	497.2	494.6	497.2	509.8	519.8	535.0	562.8	582.9	615.8	630.9	439.1
75°	401.3	396.2	401.3	411.3	408.8	429.0	451.7	471.9	502.2	512.3	325.6
77.5°	307.9	307.9	307.9	318.0	318.0	338.2	348.3	373.5	391.2	406.3	239.7
80°	229.7	227.1	229.7	232.2	232.2	242.3	260.0	277.6	292.7	292.7	164.1
82.5°	161.5	156.4	161.5	161.5	161.5	166.6	176.7	181.7	191.8	199.4	103.4
85°	100.9	100.9	100.9	103.4	100.9	106.0	108.5	113.5	113.5	108.5	63.1
87.5°	65.6	63.1	65.6	63.1	63.1	60.5	60.5	60.5	58.1	55.5	35.3
90°	7.3	7.3	7.3	7.3	7.3	9.6	12.9	14.5	12.5	8.4	5.3
92.5°	29.1	23.3	29.1	35.0	36.4	51.6	71.7	81.8	71.9	52.0	37.0
95°	101.5	83.9	101.5	119.0	123.4	162.1	213.5	239.3	202.1	127.7	71.9
97.5°	243.1	209.8	243.1	276.6	284.9	309.3	341.9	358.1	296.0	172.0	79.0
100°	350.4	310.7	350.4	390.1	400.0	398.2	395.8	394.6	325.8	188.1	84.9
102.5°	455.8	421.8	455.8	489.8	498.3	467.2	425.7	405.0	335.2	195.6	90.8
105°	590.3	571.9	590.3	608.5	613.1	543.4	450.4	403.9	336.3	201.1	99.7
107.5°	678.3	682.7	678.3	673.9	672.8	575.5	445.7	380.9	321.3	202.1	112.7
110°	711.9	731.0	711.9	692.9	688.1	579.3	434.2	361.8	308.0	200.5	119.9

TEST NUMBER: P934104

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	714.9	744.1	714.9	685.7	678.3	567.0	418.6	344.4	296.4	200.6	128.7
115°	696.0	736.5	696.0	655.4	645.3	538.0	395.0	323.5	283.2	202.5	141.9
117.5°	655.8	700.8	655.8	610.8	599.5	502.7	373.7	309.1	274.8	206.3	154.8
120°	623.3	667.1	623.3	579.6	568.7	480.3	362.3	303.4	272.1	209.3	162.3
122.5°	591.8	634.9	591.8	548.7	538.0	458.3	352.1	299.0	270.6	213.7	171.0
125°	546.8	586.6	546.8	507.1	497.2	429.6	339.3	294.2	269.4	219.6	182.3
127.5°	506.3	539.9	506.3	472.9	464.5	406.4	329.0	290.2	268.6	225.6	193.2
130°	482.5	513.4	482.5	451.5	443.8	392.1	323.2	288.7	269.1	229.9	200.5
132.5°	460.9	488.6	460.9	433.2	426.2	379.9	318.2	287.4	269.4	233.4	206.4
135°	431.2	455.1	431.2	407.3	401.4	362.6	310.9	285.1	269.1	237.2	213.3
137.5°	407.4	427.0	407.4	387.8	383.0	350.2	306.6	284.7	270.7	243.0	222.1
140°	391.1	409.4	391.1	372.8	368.2	340.0	302.3	283.3	271.0	246.5	228.1
142.5°	377.6	393.3	377.6	361.8	357.9	333.1	300.0	283.3	272.1	249.4	232.4
145°	357.4	369.2	357.4	345.4	342.5	322.1	295.0	281.4	272.1	253.3	239.1
147.5°	341.7	351.6	341.7	331.9	329.4	313.4	292.1	281.4	273.9	258.8	247.5
150°	332.0	340.0	332.0	323.9	321.9	308.5	290.4	281.4	274.8	261.8	251.9
152.5°	323.6	329.6	323.6	317.5	316.0	304.5	289.1	281.4	275.5	263.7	254.8
155°	313.9	317.9	313.9	309.9	308.9	299.8	287.6	281.4	277.0	267.9	261.1
157.5°	306.4	309.1	306.4	303.5	302.8	295.7	286.2	281.4	278.3	272.1	267.4
160°	301.8	303.4	301.8	300.2	299.8	293.7	285.5	281.4	279.0	274.0	270.3
162.5°	298.8	300.3	298.8	297.3	296.9	291.8	284.9	281.4	279.6	276.0	273.3
165°	294.5	296.1	294.5	292.9	292.5	288.8	283.9	281.4	280.7	279.1	277.8
167.5°	291.5	292.1	291.5	290.8	290.6	288.2	285.0	283.3	282.7	281.3	280.3
170°	290.6	290.6	290.6	290.6	290.6	288.2	285.0	283.3	283.3	283.3	283.2
172.5°	288.3	287.7	288.3	288.9	289.1	287.2	284.6	283.3	283.3	283.3	283.3
175°	287.0	287.0	287.0	287.0	287.0	285.7	284.1	283.3	283.7	284.5	285.1
177.5°	285.7	285.1	285.7	286.4	286.6	285.6	284.4	283.7	284.0	284.6	285.1
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1

TEST NUMBER: P934104

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4
2.5°	2705.2	2690.1	2690.1	2664.9	2654.8	2647.3	2634.6	2596.7	2586.6	2576.6	2591.7
5°	2728.0	2700.2	2680.0	2634.6	2596.7	2581.6	2533.6	2442.8	2382.2	2336.8	2311.6
7.5°	2733.0	2697.7	2659.9	2589.2	2498.3	2458.0	2311.6	2145.0	2099.6	2059.3	2034.0
10°	2728.0	2687.6	2634.6	2528.6	2314.1	2243.5	2097.1	1988.6	1960.8	1953.3	1960.8
12.5°	2710.3	2672.5	2599.2	2422.6	2122.3	2074.4	1988.6	1925.5	1920.4	1933.0	2001.2
15°	2680.0	2644.7	2558.9	2281.3	2016.3	1981.0	1920.4	1897.7	1925.5	2013.8	2218.2
17.5°	2649.7	2609.3	2503.3	2142.5	1935.6	1910.4	1867.4	1912.9	2069.3	2187.9	2256.1
20°	2609.3	2561.4	2440.3	2041.6	1877.5	1854.8	1834.7	2039.0	2157.6	2200.5	2238.4
22.5°	2561.4	2511.0	2354.5	1970.9	1817.0	1799.3	1811.9	2109.7	2157.6	2187.9	2220.8
25°	2498.3	2455.4	2253.5	1915.3	1769.0	1748.8	1796.7	2102.1	2129.8	2137.5	2203.1
27.5°	2440.3	2384.7	2147.5	1864.9	1711.0	1703.4	1809.4	2069.3	2089.5	2097.1	2167.8
30°	2369.6	2286.4	2028.9	1811.9	1650.4	1647.9	1811.9	2028.9	2023.9	2044.1	2114.8
32.5°	2296.5	2140.0	1895.2	1746.3	1592.4	1589.9	1794.3	1968.4	1963.3	1991.1	2044.1
35°	2228.3	2026.4	1713.5	1670.6	1519.2	1521.7	1751.4	1897.7	1900.3	1925.5	1958.3
37.5°	2157.6	1928.0	1514.2	1587.3	1448.5	1448.5	1693.3	1832.1	1827.1	1834.7	1880.0
40°	2074.4	1774.1	1337.5	1478.8	1382.9	1375.3	1622.6	1761.4	1743.7	1741.3	1804.4
42.5°	1986.0	1605.0	1206.3	1335.0	1307.2	1297.1	1536.9	1675.6	1642.8	1650.4	1731.1
45°	1890.1	1559.5	1105.3	1128.0	1229.0	1221.4	1443.5	1577.2	1554.5	1574.7	1658.0
47.5°	1794.3	1468.7	1072.6	936.3	1145.7	1143.1	1340.1	1481.3	1468.7	1488.9	1577.2
50°	1663.0	1367.8	1070.0	802.5	1052.3	1062.4	1216.4	1388.0	1388.0	1405.7	1499.0
52.5°	1493.9	1244.1	971.6	726.8	943.8	974.1	1107.8	1307.2	1312.3	1329.9	1413.2
55°	1340.1	1115.4	900.9	668.8	815.1	880.7	1001.9	1223.9	1234.1	1251.7	1327.4
57.5°	1198.7	928.6	885.8	600.6	696.5	759.6	908.5	1143.1	1148.2	1163.4	1236.5
60°	1047.3	671.3	812.6	527.4	593.1	641.0	822.6	1047.3	1064.9	1075.0	1138.2
62.5°	875.6	487.0	736.9	476.9	542.5	552.7	752.1	956.4	979.2	986.7	1024.5
65°	623.3	408.8	625.8	434.0	489.5	492.1	676.3	863.0	883.3	895.9	923.6
67.5°	421.4	333.1	476.9	393.7	449.2	451.7	603.2	754.5	782.3	792.4	810.0
70°	292.7	222.0	353.3	350.8	403.8	408.8	524.9	656.1	681.4	688.9	699.1
72.5°	214.5	179.2	292.7	315.4	355.8	360.9	444.2	545.1	570.3	577.9	582.9
75°	164.1	189.3	237.2	275.0	302.8	305.3	363.4	444.2	461.8	466.9	469.4
77.5°	131.2	176.7	174.1	222.0	247.3	242.3	285.2	343.2	358.3	358.3	358.3
80°	98.5	138.8	131.2	159.0	181.7	176.7	204.4	244.8	249.8	254.9	252.3
82.5°	73.2	88.3	88.3	100.9	121.1	116.1	136.3	159.0	159.0	159.0	164.1
85°	45.5	50.4	40.4	53.0	68.1	65.6	75.7	85.8	88.3	88.3	83.3
87.5°	27.8	22.7	12.6	20.2	30.3	30.3	35.3	37.8	35.3	35.3	35.3
90°	5.0	3.4	1.9	3.4	5.0	5.3	8.4	12.5	14.5	12.9	9.6
92.5°	33.7	20.6	7.6	20.6	33.7	37.0	52.0	71.9	81.8	71.7	51.6
95°	66.0	42.1	18.3	42.1	66.0	71.9	127.7	202.1	239.3	213.5	162.1
97.5°	73.7	52.8	31.8	52.8	73.7	79.0	172.0	296.0	358.1	341.9	309.3
100°	80.1	61.1	42.1	61.1	80.1	84.9	188.1	325.8	394.6	395.8	398.2
102.5°	86.4	68.7	50.9	68.7	86.4	90.8	195.6	335.2	405.0	425.7	467.2
105°	96.0	80.9	65.8	80.9	96.0	99.7	201.1	336.3	403.9	450.4	543.4
107.5°	109.2	95.1	81.1	95.1	109.2	112.7	202.1	321.3	380.9	445.7	575.5
110°	116.8	104.1	91.5	104.1	116.8	119.9	200.5	308.0	361.8	434.2	579.3

TEST NUMBER: P934104

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	125.7	113.6	101.6	113.6	125.7	128.7	200.6	296.4	344.4	418.6	567.0
115°	139.1	128.0	116.9	128.0	139.1	141.9	202.5	283.2	323.5	395.0	538.0
117.5°	152.2	142.1	132.0	142.1	152.2	154.8	206.3	274.8	309.1	373.7	502.7
120°	159.9	150.3	140.8	150.3	159.9	162.3	209.3	272.1	303.4	362.3	480.3
122.5°	168.7	159.0	149.4	159.0	168.7	171.0	213.7	270.6	299.0	352.1	458.3
125°	180.1	171.4	162.6	171.4	180.1	182.3	219.6	269.4	294.2	339.3	429.6
127.5°	191.0	182.1	173.3	182.1	191.0	193.2	225.6	268.6	290.2	329.0	406.4
130°	198.1	188.6	179.1	188.6	198.1	200.5	229.9	269.1	288.7	323.2	392.1
132.5°	204.0	194.5	185.0	194.5	204.0	206.4	233.4	269.4	287.4	318.2	379.9
135°	211.2	202.5	193.8	202.5	211.2	213.3	237.2	269.1	285.1	310.9	362.6
137.5°	219.9	211.3	202.7	211.3	219.9	222.1	243.0	270.7	284.7	306.6	350.2
140°	226.0	218.1	210.2	218.1	226.0	228.1	246.5	271.0	283.3	302.3	340.0
142.5°	230.6	223.3	216.0	223.3	230.6	232.4	249.4	272.1	283.3	300.0	333.1
145°	237.5	231.2	224.8	231.2	237.5	239.1	253.3	272.1	281.4	295.0	322.1
147.5°	246.0	239.8	233.6	239.8	246.0	247.5	258.8	273.9	281.4	292.1	313.4
150°	250.5	245.0	239.3	245.0	250.5	251.9	261.8	274.8	281.4	290.4	308.5
152.5°	253.7	249.4	245.2	249.4	253.7	254.8	263.7	275.5	281.4	289.1	304.5
155°	260.3	257.2	254.0	257.2	260.3	261.1	267.9	277.0	281.4	287.6	299.8
157.5°	266.6	263.6	260.5	263.6	266.6	267.4	272.1	278.3	281.4	286.2	295.7
160°	269.7	267.3	264.9	267.3	269.7	270.3	274.0	279.0	281.4	285.5	293.7
162.5°	272.8	271.1	269.3	271.1	272.8	273.3	276.0	279.6	281.4	284.9	291.8
165°	277.4	275.8	274.2	275.8	277.4	277.8	279.1	280.7	281.4	283.9	288.8
167.5°	280.1	279.3	278.6	279.3	280.1	280.3	281.3	282.7	283.3	285.0	288.2
170°	283.0	282.2	281.4	282.2	283.0	283.2	283.3	283.3	283.3	285.0	288.2
172.5°	283.3	283.2	283.0	283.2	283.3	283.3	283.3	283.3	283.3	284.6	287.2
175°	285.1	285.1	285.1	285.1	285.1	285.1	284.5	283.7	283.3	284.1	285.7
177.5°	285.1	285.1	285.1	285.1	285.1	285.1	284.6	284.0	283.7	284.4	285.6
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1

TEST NUMBER: P934104

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4	2667.4
2.5°	2574.0	2566.5	2576.6	2548.8	2576.6	2566.5	2574.0	2591.7	2576.6	2586.6	2596.7
5°	2258.6	2246.0	2205.6	2172.8	2205.6	2246.0	2258.6	2311.6	2336.8	2382.2	2442.8
7.5°	2018.9	2008.7	1998.6	1978.5	1998.6	2008.7	2018.9	2034.0	2059.3	2099.6	2145.0
10°	1965.9	1968.4	1983.5	1981.0	1983.5	1968.4	1965.9	1960.8	1953.3	1960.8	1988.6
12.5°	2102.1	2124.9	2208.2	2203.1	2208.2	2124.9	2102.1	2001.2	1933.0	1920.4	1925.5
15°	2258.6	2266.1	2283.8	2286.4	2283.8	2266.1	2258.6	2218.2	2013.8	1925.5	1897.7
17.5°	2273.8	2276.2	2288.8	2288.8	2288.8	2276.2	2273.8	2256.1	2187.9	2069.3	1912.9
20°	2261.2	2266.1	2291.4	2296.5	2291.4	2266.1	2261.2	2238.4	2200.5	2157.6	2039.0
22.5°	2256.1	2266.1	2286.4	2283.8	2286.4	2266.1	2256.1	2220.8	2187.9	2157.6	2109.7
25°	2230.8	2230.8	2233.4	2235.8	2233.4	2230.8	2230.8	2203.1	2137.5	2129.8	2102.1
27.5°	2177.9	2182.8	2198.0	2195.5	2198.0	2182.8	2177.9	2167.8	2097.1	2089.5	2069.3
30°	2129.8	2124.9	2112.2	2102.1	2112.2	2124.9	2129.8	2114.8	2044.1	2023.9	2028.9
32.5°	2049.1	2036.5	2023.9	2016.3	2023.9	2036.5	2049.1	2044.1	1991.1	1963.3	1968.4
35°	1953.3	1955.7	1953.3	1945.6	1953.3	1955.7	1953.3	1958.3	1925.5	1900.3	1897.7
37.5°	1885.1	1890.1	1887.7	1877.5	1887.7	1890.1	1885.1	1880.0	1834.7	1827.1	1832.1
40°	1814.4	1817.0	1814.4	1806.9	1814.4	1817.0	1814.4	1804.4	1741.3	1743.7	1761.4
42.5°	1746.3	1743.7	1736.2	1731.1	1736.2	1743.7	1746.3	1731.1	1650.4	1642.8	1675.6
45°	1668.1	1670.6	1655.5	1647.9	1655.5	1670.6	1668.1	1658.0	1574.7	1554.5	1577.2
47.5°	1589.9	1589.9	1577.2	1569.6	1577.2	1589.9	1589.9	1577.2	1488.9	1468.7	1481.3
50°	1506.6	1504.0	1486.4	1483.9	1486.4	1504.0	1506.6	1499.0	1405.7	1388.0	1388.0
52.5°	1410.6	1410.6	1413.2	1418.3	1413.2	1410.6	1410.6	1413.2	1329.9	1312.3	1307.2
55°	1327.4	1329.9	1347.6	1352.7	1347.6	1329.9	1327.4	1327.4	1251.7	1234.1	1223.9
57.5°	1241.6	1241.6	1254.2	1254.2	1254.2	1241.6	1241.6	1236.5	1163.4	1148.2	1143.1
60°	1143.1	1148.2	1158.3	1155.8	1158.3	1148.2	1143.1	1138.2	1075.0	1064.9	1047.3
62.5°	1039.7	1044.8	1047.3	1042.2	1047.3	1044.8	1039.7	1024.5	986.7	979.2	956.4
65°	931.2	936.3	938.8	933.7	938.8	936.3	931.2	923.6	895.9	883.3	863.0
67.5°	820.2	817.7	815.1	825.2	815.1	817.7	820.2	810.0	792.4	782.3	754.5
70°	706.6	706.6	704.0	709.1	704.0	706.6	706.6	699.1	688.9	681.4	656.1
72.5°	585.5	582.9	593.1	585.5	593.1	582.9	585.5	582.9	577.9	570.3	545.1
75°	466.9	471.9	466.9	474.4	466.9	471.9	466.9	469.4	466.9	461.8	444.2
77.5°	355.8	360.9	355.8	355.8	355.8	360.9	355.8	358.3	358.3	358.3	343.2
80°	252.3	249.8	249.8	247.3	249.8	249.8	252.3	252.3	254.9	249.8	244.8
82.5°	161.5	159.0	159.0	164.1	159.0	159.0	161.5	164.1	159.0	159.0	159.0
85°	88.3	90.8	85.8	85.8	85.8	90.8	88.3	83.3	88.3	88.3	85.8
87.5°	32.9	30.3	30.3	30.3	30.3	30.3	32.9	35.3	35.3	35.3	37.8
90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.6	12.9	14.5	12.5
92.5°	36.4	35.0	29.1	23.3	29.1	35.0	36.4	51.6	71.7	81.8	71.9
95°	123.4	119.0	101.5	83.9	101.5	119.0	123.4	162.1	213.5	239.3	202.1
97.5°	284.9	276.6	243.1	209.8	243.1	276.6	284.9	309.3	341.9	358.1	296.0
100°	400.0	390.1	350.4	310.7	350.4	390.1	400.0	398.2	395.8	394.6	325.8
102.5°	498.3	489.8	455.8	421.8	455.8	489.8	498.3	467.2	425.7	405.0	335.2
105°	613.1	608.5	590.3	571.9	590.3	608.5	613.1	543.4	450.4	403.9	336.3
107.5°	672.8	673.9	678.3	682.7	678.3	673.9	672.8	575.5	445.7	380.9	321.3
110°	688.1	692.9	711.9	731.0	711.9	692.9	688.1	579.3	434.2	361.8	308.0

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	678.3	685.7	714.9	744.1	714.9	685.7	678.3	567.0	418.6	344.4	296.4
115°	645.3	655.4	696.0	736.5	696.0	655.4	645.3	538.0	395.0	323.5	283.2
117.5°	599.5	610.8	655.8	700.8	655.8	610.8	599.5	502.7	373.7	309.1	274.8
120°	568.7	579.6	623.3	667.1	623.3	579.6	568.7	480.3	362.3	303.4	272.1
122.5°	538.0	548.7	591.8	634.9	591.8	548.7	538.0	458.3	352.1	299.0	270.6
125°	497.2	507.1	546.8	586.6	546.8	507.1	497.2	429.6	339.3	294.2	269.4
127.5°	464.5	472.9	506.3	539.9	506.3	472.9	464.5	406.4	329.0	290.2	268.6
130°	443.8	451.5	482.5	513.4	482.5	451.5	443.8	392.1	323.2	288.7	269.1
132.5°	426.2	433.2	460.9	488.6	460.9	433.2	426.2	379.9	318.2	287.4	269.4
135°	401.4	407.3	431.2	455.1	431.2	407.3	401.4	362.6	310.9	285.1	269.1
137.5°	383.0	387.8	407.4	427.0	407.4	387.8	383.0	350.2	306.6	284.7	270.7
140°	368.2	372.8	391.1	409.4	391.1	372.8	368.2	340.0	302.3	283.3	271.0
142.5°	357.9	361.8	377.6	393.3	377.6	361.8	357.9	333.1	300.0	283.3	272.1
145°	342.5	345.4	357.4	369.2	357.4	345.4	342.5	322.1	295.0	281.4	272.1
147.5°	329.4	331.9	341.7	351.6	341.7	331.9	329.4	313.4	292.1	281.4	273.9
150°	321.9	323.9	332.0	340.0	332.0	323.9	321.9	308.5	290.4	281.4	274.8
152.5°	316.0	317.5	323.6	329.6	323.6	317.5	316.0	304.5	289.1	281.4	275.5
155°	308.9	309.9	313.9	317.9	313.9	309.9	308.9	299.8	287.6	281.4	277.0
157.5°	302.8	303.5	306.4	309.1	306.4	303.5	302.8	295.7	286.2	281.4	278.3
160°	299.8	300.2	301.8	303.4	301.8	300.2	299.8	293.7	285.5	281.4	279.0
162.5°	296.9	297.3	298.8	300.3	298.8	297.3	296.9	291.8	284.9	281.4	279.6
165°	292.5	292.9	294.5	296.1	294.5	292.9	292.5	288.8	283.9	281.4	280.7
167.5°	290.6	290.8	291.5	292.1	291.5	290.8	290.6	288.2	285.0	283.3	282.7
170°	290.6	290.6	290.6	290.6	290.6	290.6	290.6	288.2	285.0	283.3	283.3
172.5°	289.1	288.9	288.3	287.7	288.3	288.9	289.1	287.2	284.6	283.3	283.3
175°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	285.7	284.1	283.3	283.7
177.5°	286.6	286.4	285.7	285.1	285.7	286.4	286.6	285.6	284.4	283.7	284.0
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1

TEST NUMBER: P934104

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2667.4	2667.4	2667.4	2667.4	2667.4
2.5°	2634.6	2647.3	2654.8	2664.9	2690.1
5°	2533.6	2581.6	2596.7	2634.6	2680.0
7.5°	2311.6	2458.0	2498.3	2589.2	2659.9
10°	2097.1	2243.5	2314.1	2528.6	2634.6
12.5°	1988.6	2074.4	2122.3	2422.6	2599.2
15°	1920.4	1981.0	2016.3	2281.3	2558.9
17.5°	1867.4	1910.4	1935.6	2142.5	2503.3
20°	1834.7	1854.8	1877.5	2041.6	2440.3
22.5°	1811.9	1799.3	1817.0	1970.9	2354.5
25°	1796.7	1748.8	1769.0	1915.3	2253.5
27.5°	1809.4	1703.4	1711.0	1864.9	2147.5
30°	1811.9	1647.9	1650.4	1811.9	2028.9
32.5°	1794.3	1589.9	1592.4	1746.3	1895.2
35°	1751.4	1521.7	1519.2	1670.6	1713.5
37.5°	1693.3	1448.5	1448.5	1587.3	1514.2
40°	1622.6	1375.3	1382.9	1478.8	1337.5
42.5°	1536.9	1297.1	1307.2	1335.0	1206.3
45°	1443.5	1221.4	1229.0	1128.0	1105.3
47.5°	1340.1	1143.1	1145.7	936.3	1072.6
50°	1216.4	1062.4	1052.3	802.5	1070.0
52.5°	1107.8	974.1	943.8	726.8	971.6
55°	1001.9	880.7	815.1	668.8	900.9
57.5°	908.5	759.6	696.5	600.6	885.8
60°	822.6	641.0	593.1	527.4	812.6
62.5°	752.1	552.7	542.5	476.9	736.9
65°	676.3	492.1	489.5	434.0	625.8
67.5°	603.2	451.7	449.2	393.7	476.9
70°	524.9	408.8	403.8	350.8	353.3
72.5°	444.2	360.9	355.8	315.4	292.7
75°	363.4	305.3	302.8	275.0	237.2
77.5°	285.2	242.3	247.3	222.0	174.1
80°	204.4	176.7	181.7	159.0	131.2
82.5°	136.3	116.1	121.1	100.9	88.3
85°	75.7	65.6	68.1	53.0	40.4
87.5°	35.3	30.3	30.3	20.2	12.6
90°	8.4	5.3	5.0	3.4	1.9
92.5°	52.0	37.0	33.7	20.6	7.6
95°	127.7	71.9	66.0	42.1	18.3
97.5°	172.0	79.0	73.7	52.8	31.8
100°	188.1	84.9	80.1	61.1	42.1
102.5°	195.6	90.8	86.4	68.7	50.9
105°	201.1	99.7	96.0	80.9	65.8
107.5°	202.1	112.7	109.2	95.1	81.1
110°	200.5	119.9	116.8	104.1	91.5



TEST NUMBER: P934104

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	200.6	128.7	125.7	113.6	101.6
115°	202.5	141.9	139.1	128.0	116.9
117.5°	206.3	154.8	152.2	142.1	132.0
120°	209.3	162.3	159.9	150.3	140.8
122.5°	213.7	171.0	168.7	159.0	149.4
125°	219.6	182.3	180.1	171.4	162.6
127.5°	225.6	193.2	191.0	182.1	173.3
130°	229.9	200.5	198.1	188.6	179.1
132.5°	233.4	206.4	204.0	194.5	185.0
135°	237.2	213.3	211.2	202.5	193.8
137.5°	243.0	222.1	219.9	211.3	202.7
140°	246.5	228.1	226.0	218.1	210.2
142.5°	249.4	232.4	230.6	223.3	216.0
145°	253.3	239.1	237.5	231.2	224.8
147.5°	258.8	247.5	246.0	239.8	233.6
150°	261.8	251.9	250.5	245.0	239.3
152.5°	263.7	254.8	253.7	249.4	245.2
155°	267.9	261.1	260.3	257.2	254.0
157.5°	272.1	267.4	266.6	263.6	260.5
160°	274.0	270.3	269.7	267.3	264.9
162.5°	276.0	273.3	272.8	271.1	269.3
165°	279.1	277.8	277.4	275.8	274.2
167.5°	281.3	280.3	280.1	279.3	278.6
170°	283.3	283.2	283.0	282.2	281.4
172.5°	283.3	283.3	283.3	283.2	283.0
175°	284.5	285.1	285.1	285.1	285.1
177.5°	284.6	285.1	285.1	285.1	285.1
180°	285.1	285.1	285.1	285.1	285.1

(END OF REPORT)