

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: P934504

Luminaire Tested: SQ4-FA-050U-100D-B40-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934504
REPORT IS A COMBINATION OF REPORTS P933700 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-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

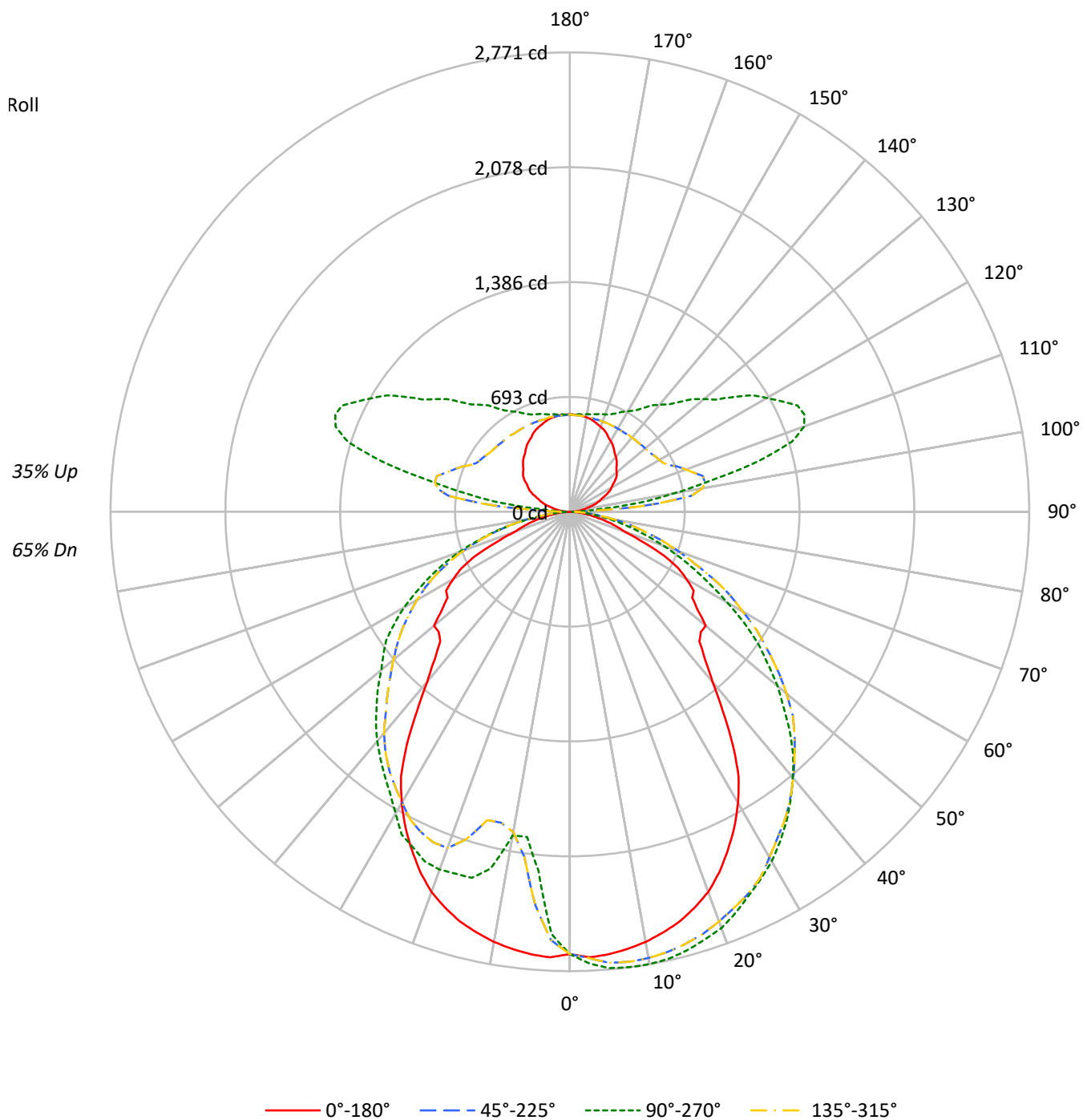
Lumens per Lamp: N/A
Luminaire Lumens: 10720.8 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 90.4
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

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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18

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	2.2
10°-20°	683.6	6.4
20°-30°	1056.8	9.9
30°-40°	1261.6	11.8
40°-50°	1269.0	11.8
50°-60°	1104.2	10.3
60°-70°	782.9	7.3
70°-80°	414.2	3.9
80°-90°	105.4	1.0
90°-100°	285.9	2.7
100°-110°	751.7	7.0
110°-120°	779.4	7.3
120°-130°	625.2	5.8
130°-140°	490.6	4.6
140°-150°	376.5	3.5
150°-160°	271.2	2.5
160°-170°	165.9	1.5
170°-180°	56.1	0.5
0°-30°	1981.2	18.5
0°-40°	3242.8	30.2
0°-60°	5615.9	52.4
0°-90°	6918.4	64.5
90°-120°	1817.1	16.9
90°-150°	3309.4	30.9
90°-180°	3802.0	35.5
0°-180°	10720.8	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°	4	15	4	15	4	5
95°	38	173	38	173	38	42
105°	135	1177	135	1177	135	144
115°	241	1516	241	1516	241	238
125°	335	1207	335	1207	335	297
135°	399	937	399	937	399	309
145°	463	760	463	760	463	290
155°	523	654	523	654	523	240
165°	564	609	564	609	564	159
175°	587	590	587	590	587	56
180°	587	587	587	587	587	

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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°	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.5	20.0	15.0	15.0
92.5°	15.8	42.5	69.3	76.0	106.9	147.9	168.5	147.6	106.0	74.8	71.8
95°	37.8	86.8	135.8	148.0	262.8	415.9	492.5	439.5	333.5	253.9	245.0
97.5°	65.3	108.5	151.7	162.5	354.0	609.3	737.0	703.5	636.4	586.2	569.0
100°	86.6	125.8	164.9	174.8	387.3	670.5	812.1	814.6	819.5	823.1	802.7
102.5°	104.8	141.3	177.8	187.0	402.4	689.8	833.4	876.1	961.5	1025.5	1008.0
105°	135.4	166.4	197.4	205.1	413.8	692.0	831.0	926.7	1118.2	1261.7	1252.3
107.5°	166.9	195.8	224.6	231.9	415.8	661.1	783.8	917.3	1184.3	1384.6	1386.9
110°	188.1	214.2	240.4	246.9	412.8	633.8	744.4	893.7	1192.1	1416.0	1425.8

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	209.0	233.9	258.7	264.9	412.8	610.1	708.6	861.3	1166.8	1395.9	1411.0
115°	240.6	263.5	286.4	292.1	416.7	582.7	665.7	812.9	1107.1	1327.8	1348.7
117.5°	271.6	292.4	313.2	318.5	424.4	565.6	636.1	769.0	1034.6	1233.8	1256.9
120°	289.7	309.3	329.0	333.9	430.7	559.8	624.4	745.7	988.3	1170.4	1192.8
122.5°	307.4	327.2	347.0	351.9	439.7	556.8	615.3	724.6	943.2	1107.0	1129.2
125°	334.6	352.6	370.6	375.1	451.9	554.3	605.5	698.3	883.9	1023.2	1043.6
127.5°	356.7	374.8	393.0	397.6	464.1	552.8	597.2	676.9	836.3	955.9	973.0
130°	368.4	388.0	407.7	412.6	473.0	553.7	594.0	665.0	806.9	913.3	929.2
132.5°	380.7	400.2	419.9	424.8	480.3	554.3	591.3	654.8	781.9	877.1	891.3
135°	398.8	416.7	434.4	438.9	488.1	553.7	586.6	639.8	746.1	825.9	838.2
137.5°	417.3	435.0	452.7	457.1	499.9	557.1	585.8	630.8	720.7	788.2	798.2
140°	432.6	448.9	465.2	469.3	507.2	557.7	583.0	621.9	699.5	757.8	767.2
142.5°	444.5	459.5	474.5	478.3	513.2	559.7	583.0	617.1	685.4	736.6	744.7
145°	462.6	475.7	488.9	492.1	521.1	559.8	579.1	607.0	662.9	704.7	710.8
147.5°	480.7	493.4	506.2	509.4	532.6	563.6	579.1	601.1	644.9	677.9	682.9
150°	492.5	504.0	515.6	518.5	538.7	565.6	579.1	597.6	634.8	662.6	666.7
152.5°	504.7	513.5	522.2	524.4	542.6	567.0	579.1	595.0	626.6	650.4	653.5
155°	522.8	529.3	535.8	537.4	551.3	569.8	579.1	591.7	616.8	635.7	637.8
157.5°	536.1	542.4	548.7	550.4	559.9	572.7	579.1	588.9	608.4	623.1	624.6
160°	545.2	550.2	555.0	556.3	563.9	574.1	579.1	587.5	604.2	616.8	617.7
162.5°	554.3	558.0	561.6	562.6	568.1	575.5	579.1	586.2	600.4	611.0	611.8
165°	564.1	567.5	570.7	571.6	574.1	577.4	579.1	584.2	594.3	601.9	602.8
167.5°	573.2	574.7	576.3	576.7	578.8	581.6	583.0	586.4	593.1	598.0	598.4
170°	579.1	580.6	582.3	582.6	582.7	582.9	583.0	586.4	593.1	598.0	598.0
172.5°	582.3	582.6	582.9	583.0	583.0	583.0	583.0	585.7	591.0	594.9	594.6
175°	586.6	586.6	586.6	586.6	585.4	583.8	583.0	584.7	588.0	590.5	590.5
177.5°	586.6	586.6	586.6	586.6	585.6	584.4	583.8	585.1	587.7	589.7	589.3
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6

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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°	15.0	15.0	15.0	15.0	15.0	20.0	26.5	29.9	25.7	17.3	11.0
92.5°	59.9	48.0	59.9	71.8	74.8	106.0	147.6	168.5	147.9	106.9	76.0
95°	208.9	172.9	208.9	245.0	253.9	333.5	439.5	492.5	415.9	262.8	148.0
97.5°	500.4	431.9	500.4	569.0	586.2	636.4	703.5	737.0	609.3	354.0	162.5
100°	721.0	639.3	721.0	802.7	823.1	819.5	814.6	812.1	670.5	387.3	174.8
102.5°	938.0	868.0	938.0	1008.0	1025.5	961.5	876.1	833.4	689.8	402.4	187.0
105°	1214.7	1177.0	1214.7	1252.3	1261.7	1118.2	926.7	831.0	692.0	413.8	205.1
107.5°	1395.9	1405.0	1395.9	1386.9	1384.6	1184.3	917.3	783.8	661.1	415.8	231.9
110°	1465.0	1504.2	1465.0	1425.8	1416.0	1192.1	893.7	744.4	633.8	412.8	246.9

TEST NUMBER: P934504

CATALOG NUMBER: SQ4-FA-050U-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°	1471.2	1531.3	1471.2	1411.0	1395.9	1166.8	861.3	708.6	610.1	412.8	264.9
115°	1432.1	1515.6	1432.1	1348.7	1327.8	1107.1	812.9	665.7	582.7	416.7	292.1
117.5°	1349.5	1442.0	1349.5	1256.9	1233.8	1034.6	769.0	636.1	565.6	424.4	318.5
120°	1282.8	1372.7	1282.8	1192.8	1170.4	988.3	745.7	624.4	559.8	430.7	333.9
122.5°	1217.9	1306.6	1217.9	1129.2	1107.0	943.2	724.6	615.3	556.8	439.7	351.9
125°	1125.3	1207.0	1125.3	1043.6	1023.2	883.9	698.3	605.5	554.3	451.9	375.1
127.5°	1042.0	1111.0	1042.0	973.0	955.9	836.3	676.9	597.2	552.8	464.1	397.6
130°	992.9	1056.6	992.9	929.2	913.3	806.9	665.0	594.0	553.7	473.0	412.6
132.5°	948.4	1005.4	948.4	891.3	877.1	781.9	654.8	591.3	554.3	480.3	424.8
135°	887.4	936.6	887.4	838.2	825.9	746.1	639.8	586.6	553.7	488.1	438.9
137.5°	838.5	878.7	838.5	798.2	788.2	720.7	630.8	585.8	557.1	499.9	457.1
140°	804.8	842.4	804.8	767.2	757.8	699.5	621.9	583.0	557.7	507.2	469.3
142.5°	777.0	809.4	777.0	744.7	736.6	685.4	617.1	583.0	559.7	513.2	478.3
145°	735.4	759.8	735.4	710.8	704.7	662.9	607.0	579.1	559.8	521.1	492.1
147.5°	703.3	723.6	703.3	682.9	677.9	644.9	601.1	579.1	563.6	532.6	509.4
150°	683.1	699.5	683.1	666.7	662.6	634.8	597.6	579.1	565.6	538.7	518.5
152.5°	665.9	678.3	665.9	653.5	650.4	626.6	595.0	579.1	567.0	542.6	524.4
155°	646.1	654.3	646.1	637.8	635.7	616.8	591.7	579.1	569.8	551.3	537.4
157.5°	630.4	636.1	630.4	624.6	623.1	608.4	588.9	579.1	572.7	559.9	550.4
160°	621.0	624.4	621.0	617.7	616.8	604.2	587.5	579.1	574.1	563.9	556.3
162.5°	614.9	618.1	614.9	611.8	611.0	600.4	586.2	579.1	575.5	568.1	562.6
165°	606.0	609.4	606.0	602.8	601.9	594.3	584.2	579.1	577.4	574.1	571.6
167.5°	599.7	601.2	599.7	598.4	598.0	593.1	586.4	583.0	581.6	578.8	576.7
170°	598.0	598.0	598.0	598.0	598.0	593.1	586.4	583.0	582.9	582.7	582.6
172.5°	593.3	592.1	593.3	594.6	594.9	591.0	585.7	583.0	583.0	583.0	583.0
175°	590.5	590.5	590.5	590.5	590.5	588.0	584.7	583.0	583.8	585.4	586.6
177.5°	588.0	586.6	588.0	589.3	589.7	587.7	585.1	583.8	584.4	585.6	586.6
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6

TEST NUMBER: P934504

CATALOG NUMBER: SQ4-FA-050U-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°	10.2	7.1	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.5	20.0
92.5°	69.3	42.5	15.8	42.5	69.3	76.0	106.9	147.9	168.5	147.6	106.0
95°	135.8	86.8	37.8	86.8	135.8	148.0	262.8	415.9	492.5	439.5	333.5
97.5°	151.7	108.5	65.3	108.5	151.7	162.5	354.0	609.3	737.0	703.5	636.4
100°	164.9	125.8	86.6	125.8	164.9	174.8	387.3	670.5	812.1	814.6	819.5
102.5°	177.8	141.3	104.8	141.3	177.8	187.0	402.4	689.8	833.4	876.1	961.5
105°	197.4	166.4	135.4	166.4	197.4	205.1	413.8	692.0	831.0	926.7	1118.2
107.5°	224.6	195.8	166.9	195.8	224.6	231.9	415.8	661.1	783.8	917.3	1184.3
110°	240.4	214.2	188.1	214.2	240.4	246.9	412.8	633.8	744.4	893.7	1192.1

TEST NUMBER: P934504

CATALOG NUMBER: SQ4-FA-050U-100D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	258.7	233.9	209.0	233.9	258.7	264.9	412.8	610.1	708.6	861.3	1166.8
115°	286.4	263.5	240.6	263.5	286.4	292.1	416.7	582.7	665.7	812.9	1107.1
117.5°	313.2	292.4	271.6	292.4	313.2	318.5	424.4	565.6	636.1	769.0	1034.6
120°	329.0	309.3	289.7	309.3	329.0	333.9	430.7	559.8	624.4	745.7	988.3
122.5°	347.0	327.2	307.4	327.2	347.0	351.9	439.7	556.8	615.3	724.6	943.2
125°	370.6	352.6	334.6	352.6	370.6	375.1	451.9	554.3	605.5	698.3	883.9
127.5°	393.0	374.8	356.7	374.8	393.0	397.6	464.1	552.8	597.2	676.9	836.3
130°	407.7	388.0	368.4	388.0	407.7	412.6	473.0	553.7	594.0	665.0	806.9
132.5°	419.9	400.2	380.7	400.2	419.9	424.8	480.3	554.3	591.3	654.8	781.9
135°	434.4	416.7	398.8	416.7	434.4	438.9	488.1	553.7	586.6	639.8	746.1
137.5°	452.7	435.0	417.3	435.0	452.7	457.1	499.9	557.1	585.8	630.8	720.7
140°	465.2	448.9	432.6	448.9	465.2	469.3	507.2	557.7	583.0	621.9	699.5
142.5°	474.5	459.5	444.5	459.5	474.5	478.3	513.2	559.7	583.0	617.1	685.4
145°	488.9	475.7	462.6	475.7	488.9	492.1	521.1	559.8	579.1	607.0	662.9
147.5°	506.2	493.4	480.7	493.4	506.2	509.4	532.6	563.6	579.1	601.1	644.9
150°	515.6	504.0	492.5	504.0	515.6	518.5	538.7	565.6	579.1	597.6	634.8
152.5°	522.2	513.5	504.7	513.5	522.2	524.4	542.6	567.0	579.1	595.0	626.6
155°	535.8	529.3	522.8	529.3	535.8	537.4	551.3	569.8	579.1	591.7	616.8
157.5°	548.7	542.4	536.1	542.4	548.7	550.4	559.9	572.7	579.1	588.9	608.4
160°	555.0	550.2	545.2	550.2	555.0	556.3	563.9	574.1	579.1	587.5	604.2
162.5°	561.6	558.0	554.3	558.0	561.6	562.6	568.1	575.5	579.1	586.2	600.4
165°	570.7	567.5	564.1	567.5	570.7	571.6	574.1	577.4	579.1	584.2	594.3
167.5°	576.3	574.7	573.2	574.7	576.3	576.7	578.8	581.6	583.0	586.4	593.1
170°	582.3	580.6	579.1	580.6	582.3	582.6	582.7	582.9	583.0	586.4	593.1
172.5°	582.9	582.6	582.3	582.6	582.9	583.0	583.0	583.0	583.0	585.7	591.0
175°	586.6	586.6	586.6	586.6	586.6	586.6	585.4	583.8	583.0	584.7	588.0
177.5°	586.6	586.6	586.6	586.6	586.6	586.6	585.6	584.4	583.8	585.1	587.7
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6

TEST NUMBER: P934504

CATALOG NUMBER: SQ4-FA-050U-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°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	20.0	26.5	29.9	25.7
92.5°	74.8	71.8	59.9	48.0	59.9	71.8	74.8	106.0	147.6	168.5	147.9
95°	253.9	245.0	208.9	172.9	208.9	245.0	253.9	333.5	439.5	492.5	415.9
97.5°	586.2	569.0	500.4	431.9	500.4	569.0	586.2	636.4	703.5	737.0	609.3
100°	823.1	802.7	721.0	639.3	721.0	802.7	823.1	819.5	814.6	812.1	670.5
102.5°	1025.5	1008.0	938.0	868.0	938.0	1008.0	1025.5	961.5	876.1	833.4	689.8
105°	1261.7	1252.3	1214.7	1177.0	1214.7	1252.3	1261.7	1118.2	926.7	831.0	692.0
107.5°	1384.6	1386.9	1395.9	1405.0	1395.9	1386.9	1384.6	1184.3	917.3	783.8	661.1
110°	1416.0	1425.8	1465.0	1504.2	1465.0	1425.8	1416.0	1192.1	893.7	744.4	633.8

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1395.9	1411.0	1471.2	1531.3	1471.2	1411.0	1395.9	1166.8	861.3	708.6	610.1
115°	1327.8	1348.7	1432.1	1515.6	1432.1	1348.7	1327.8	1107.1	812.9	665.7	582.7
117.5°	1233.8	1256.9	1349.5	1442.0	1349.5	1256.9	1233.8	1034.6	769.0	636.1	565.6
120°	1170.4	1192.8	1282.8	1372.7	1282.8	1192.8	1170.4	988.3	745.7	624.4	559.8
122.5°	1107.0	1129.2	1217.9	1306.6	1217.9	1129.2	1107.0	943.2	724.6	615.3	556.8
125°	1023.2	1043.6	1125.3	1207.0	1125.3	1043.6	1023.2	883.9	698.3	605.5	554.3
127.5°	955.9	973.0	1042.0	1111.0	1042.0	973.0	955.9	836.3	676.9	597.2	552.8
130°	913.3	929.2	992.9	1056.6	992.9	929.2	913.3	806.9	665.0	594.0	553.7
132.5°	877.1	891.3	948.4	1005.4	948.4	891.3	877.1	781.9	654.8	591.3	554.3
135°	825.9	838.2	887.4	936.6	887.4	838.2	825.9	746.1	639.8	586.6	553.7
137.5°	788.2	798.2	838.5	878.7	838.5	798.2	788.2	720.7	630.8	585.8	557.1
140°	757.8	767.2	804.8	842.4	804.8	767.2	757.8	699.5	621.9	583.0	557.7
142.5°	736.6	744.7	777.0	809.4	777.0	744.7	736.6	685.4	617.1	583.0	559.7
145°	704.7	710.8	735.4	759.8	735.4	710.8	704.7	662.9	607.0	579.1	559.8
147.5°	677.9	682.9	703.3	723.6	703.3	682.9	677.9	644.9	601.1	579.1	563.6
150°	662.6	666.7	683.1	699.5	683.1	666.7	662.6	634.8	597.6	579.1	565.6
152.5°	650.4	653.5	665.9	678.3	665.9	653.5	650.4	626.6	595.0	579.1	567.0
155°	635.7	637.8	646.1	654.3	646.1	637.8	635.7	616.8	591.7	579.1	569.8
157.5°	623.1	624.6	630.4	636.1	630.4	624.6	623.1	608.4	588.9	579.1	572.7
160°	616.8	617.7	621.0	624.4	621.0	617.7	616.8	604.2	587.5	579.1	574.1
162.5°	611.0	611.8	614.9	618.1	614.9	611.8	611.0	600.4	586.2	579.1	575.5
165°	601.9	602.8	606.0	609.4	606.0	602.8	601.9	594.3	584.2	579.1	577.4
167.5°	598.0	598.4	599.7	601.2	599.7	598.4	598.0	593.1	586.4	583.0	581.6
170°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	593.1	586.4	583.0	582.9
172.5°	594.9	594.6	593.3	592.1	593.3	594.6	594.9	591.0	585.7	583.0	583.0
175°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	588.0	584.7	583.0	583.8
177.5°	589.7	589.3	588.0	586.6	588.0	589.3	589.7	587.7	585.1	583.8	584.4
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6

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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°	17.3	11.0	10.2	7.1	3.9
92.5°	106.9	76.0	69.3	42.5	15.8
95°	262.8	148.0	135.8	86.8	37.8
97.5°	354.0	162.5	151.7	108.5	65.3
100°	387.3	174.8	164.9	125.8	86.6
102.5°	402.4	187.0	177.8	141.3	104.8
105°	413.8	205.1	197.4	166.4	135.4
107.5°	415.8	231.9	224.6	195.8	166.9
110°	412.8	246.9	240.4	214.2	188.1



TEST NUMBER: P934504

CATALOG NUMBER: SQ4-FA-050U-100D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	412.8	264.9	258.7	233.9	209.0
115°	416.7	292.1	286.4	263.5	240.6
117.5°	424.4	318.5	313.2	292.4	271.6
120°	430.7	333.9	329.0	309.3	289.7
122.5°	439.7	351.9	347.0	327.2	307.4
125°	451.9	375.1	370.6	352.6	334.6
127.5°	464.1	397.6	393.0	374.8	356.7
130°	473.0	412.6	407.7	388.0	368.4
132.5°	480.3	424.8	419.9	400.2	380.7
135°	488.1	438.9	434.4	416.7	398.8
137.5°	499.9	457.1	452.7	435.0	417.3
140°	507.2	469.3	465.2	448.9	432.6
142.5°	513.2	478.3	474.5	459.5	444.5
145°	521.1	492.1	488.9	475.7	462.6
147.5°	532.6	509.4	506.2	493.4	480.7
150°	538.7	518.5	515.6	504.0	492.5
152.5°	542.6	524.4	522.2	513.5	504.7
155°	551.3	537.4	535.8	529.3	522.8
157.5°	559.9	550.4	548.7	542.4	536.1
160°	563.9	556.3	555.0	550.2	545.2
162.5°	568.1	562.6	561.6	558.0	554.3
165°	574.1	571.6	570.7	567.5	564.1
167.5°	578.8	576.7	576.3	574.7	573.2
170°	582.7	582.6	582.3	580.6	579.1
172.5°	583.0	583.0	582.9	582.6	582.3
175°	585.4	586.6	586.6	586.6	586.6
177.5°	585.6	586.6	586.6	586.6	586.6
180°	586.6	586.6	586.6	586.6	586.6

(END OF REPORT)