

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: P934100

Luminaire Tested: SQ4-FA-025U-100D-B35-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934100
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-B35-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

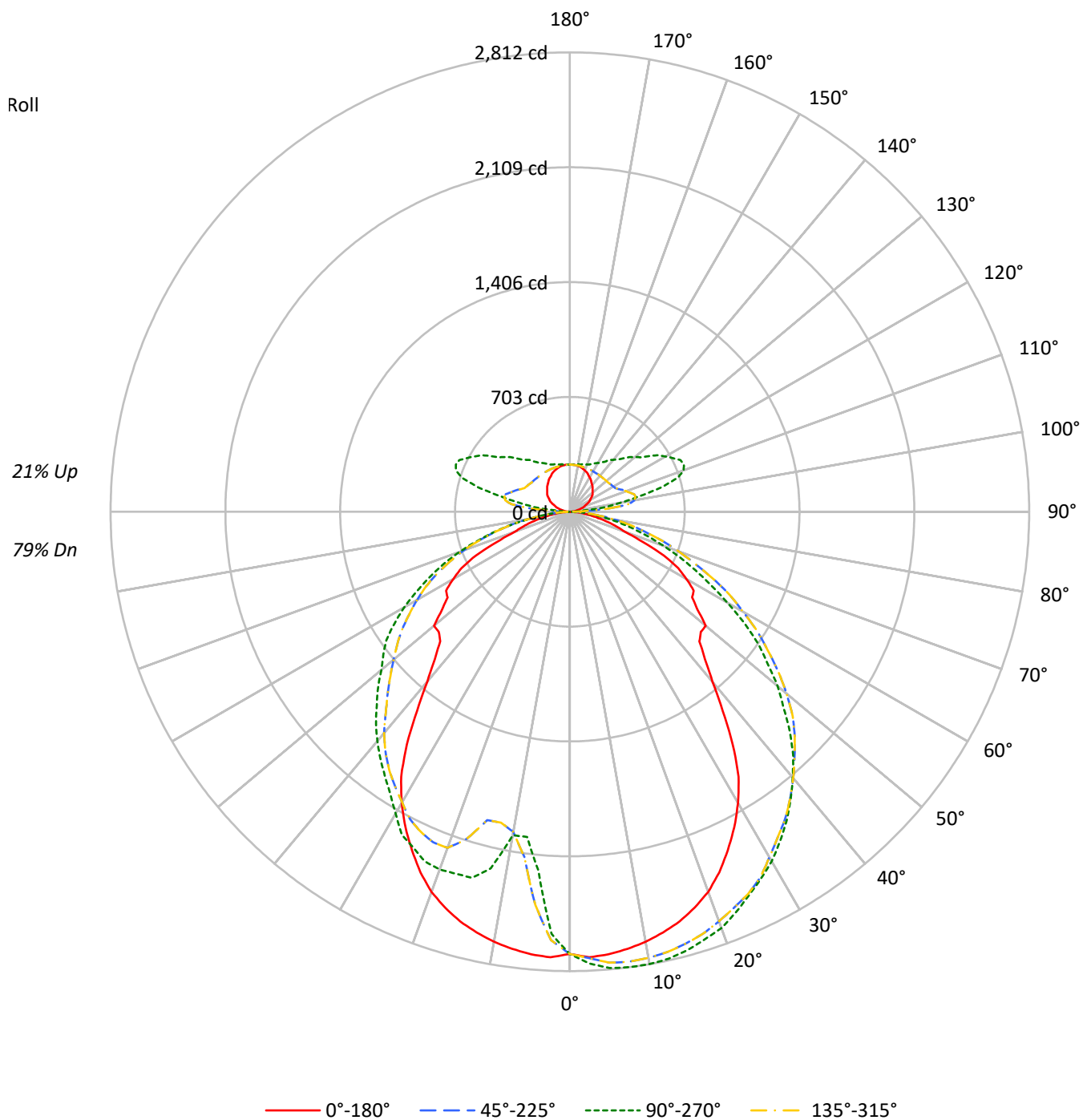
Lumens per Lamp: N/A
Luminaire Lumens: 8893.5 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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°	12557	12557	12557	12557
5°	12651	12676	12651	9967
10°	12566	12486	12566	8927
15°	12430	12216	12430	10201
20°	12170	11895	12170	10222
25°	11637	11428	11637	10005
30°	10950	11040	10950	9530
35°	9762	10549	9762	9007
40°	8134	9971	8134	8612
45°	7268	9295	7268	8158
50°	7722	8488	7722	7702
55°	7265	7619	7265	7439
60°	7489	6471	7489	6813
65°	6789	5349	6789	5979
70°	4700	4263	4700	5012
75°	4122	3151	4122	3773
80°	3321	2083	3321	2269
85°	1910	1103	1910	937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 11139 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	2.7
10°-20°	693.7	7.8
20°-30°	1072.3	12.1
30°-40°	1280.1	14.4
40°-50°	1287.6	14.5
50°-60°	1120.3	12.6
60°-70°	794.3	8.9
70°-80°	420.3	4.7
80°-90°	105.8	1.2
90°-100°	141.0	1.6
100°-110°	370.6	4.2
110°-120°	384.3	4.3
120°-130°	308.3	3.5
130°-140°	241.9	2.7
140°-150°	185.7	2.1
150°-160°	133.7	1.5
160°-170°	81.8	0.9
170°-180°	27.6	0.3
0°-30°	2010.3	22.6
0°-40°	3290.3	37.0
0°-60°	5698.2	64.1
0°-90°	7018.6	78.9
90°-120°	895.9	10.1
90°-150°	1631.8	18.3
90°-180°	1875.0	21.1
0°-180°	8893.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2706	2706	2706	2706	2706	
5°	2719	2804	2719	2205	2719	258
15°	2596	2778	2596	2320	2596	731
25°	2286	2591	2286	2269	2286	1050
35°	1739	2312	1739	1974	1739	1076
45°	1122	1905	1122	1672	1122	898
55°	914	1406	914	1372	914	840
65°	635	848	635	947	635	607
75°	241	402	241	481	241	253
85°	41	102	41	87	41	55
90°	2	7	2	7	2	3
95°	19	85	19	85	19	21
105°	67	580	67	580	67	71
115°	119	747	119	747	119	117
125°	165	595	165	595	165	146
135°	197	462	197	462	197	152
145°	228	375	228	375	228	143
155°	258	323	258	323	258	118
165°	278	300	278	300	278	79
175°	289	291	289	291	289	27
180°	289	289	289	289	289	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2729.6	2729.6	2744.9	2750.0	2750.0	2742.4	2734.7	2742.4	2765.4	2773.1	2770.6
5°	2719.3	2739.8	2767.9	2773.1	2778.2	2775.6	2770.6	2775.6	2801.3	2806.4	2808.9
7.5°	2698.9	2737.2	2773.1	2780.7	2788.5	2780.7	2778.2	2783.4	2808.9	2814.1	2814.1
10°	2673.2	2727.0	2767.9	2773.1	2780.7	2773.1	2773.1	2783.4	2808.9	2814.1	2816.6
12.5°	2637.3	2711.6	2750.0	2755.2	2765.4	2762.8	2760.3	2770.6	2796.1	2801.3	2801.3
15°	2596.4	2683.5	2719.3	2724.4	2742.4	2737.2	2737.2	2747.5	2775.6	2783.4	2780.7
17.5°	2540.0	2647.6	2688.6	2696.2	2709.0	2706.5	2709.0	2719.3	2744.9	2750.0	2752.6
20°	2476.1	2599.0	2647.6	2655.3	2668.1	2668.1	2668.1	2680.9	2706.5	2716.8	2716.8
22.5°	2389.0	2547.8	2599.0	2604.1	2619.4	2619.4	2624.5	2642.5	2665.5	2668.1	2668.1
25°	2286.5	2491.4	2534.9	2550.3	2565.7	2573.4	2581.0	2591.3	2599.0	2596.4	2599.0
27.5°	2179.0	2419.7	2476.1	2486.3	2506.8	2514.5	2524.7	2527.2	2529.9	2537.5	2532.4
30°	2058.6	2319.9	2404.4	2414.7	2447.9	2453.0	2442.8	2447.9	2460.7	2465.8	2471.0
32.5°	1923.0	2171.3	2330.2	2353.1	2383.8	2368.5	2365.9	2373.7	2394.1	2394.1	2399.2
35°	1738.6	2056.1	2261.0	2281.4	2304.5	2286.5	2296.8	2299.3	2312.2	2319.9	2317.3
37.5°	1536.3	1956.2	2189.3	2204.7	2222.6	2199.5	2214.8	2222.6	2232.8	2227.7	2227.7
40°	1357.1	1800.1	2104.8	2115.0	2130.3	2112.4	2127.8	2133.0	2138.1	2133.0	2130.3
42.5°	1223.9	1628.5	2015.1	2027.9	2017.7	2030.5	2035.7	2045.8	2038.2	2027.9	2027.9
45°	1121.5	1582.4	1917.8	1933.3	1917.8	1938.4	1946.0	1946.0	1923.0	1917.8	1915.3
47.5°	1088.3	1490.2	1820.6	1820.6	1812.9	1838.5	1851.3	1833.3	1810.3	1802.6	1802.6
50°	1085.7	1387.8	1687.4	1677.1	1713.0	1743.7	1730.9	1713.0	1695.1	1666.9	1666.9
52.5°	985.9	1262.3	1515.8	1554.3	1610.6	1628.5	1608.1	1590.1	1559.4	1546.6	1536.3
55°	914.2	1131.8	1359.7	1436.4	1495.4	1518.4	1480.0	1462.1	1416.0	1408.3	1403.2
57.5°	898.7	942.3	1216.3	1313.6	1385.3	1382.7	1359.7	1326.4	1288.0	1280.2	1277.7
60°	824.5	681.1	1062.6	1177.8	1252.1	1244.4	1223.9	1193.2	1157.4	1152.2	1147.1
62.5°	747.7	494.2	888.5	1019.1	1124.0	1121.5	1103.6	1057.5	1031.9	1019.1	1008.8
65°	635.0	414.8	632.5	847.6	998.7	1003.7	965.3	932.1	903.9	888.5	886.0
67.5°	483.9	338.0	427.6	706.7	878.3	873.2	824.5	809.1	773.3	765.6	750.2
70°	358.4	225.3	297.0	573.6	760.5	747.7	709.3	691.4	658.0	640.1	629.8
72.5°	297.0	181.8	217.6	445.5	640.1	624.8	591.5	571.0	542.8	527.4	517.3
75°	240.7	192.1	166.5	330.3	519.8	509.6	478.8	458.3	435.3	414.8	417.3
77.5°	176.6	179.3	133.1	243.2	412.2	396.9	379.0	353.4	343.1	322.7	322.7
80°	133.1	140.8	99.9	166.5	297.0	297.0	281.7	263.8	245.8	235.6	235.6
82.5°	89.6	89.6	74.2	104.9	202.3	194.6	184.4	179.3	169.0	163.9	163.9
85°	41.0	51.2	46.1	64.1	110.1	115.2	115.2	110.1	107.6	102.4	104.9
87.5°	12.8	23.1	28.2	35.9	56.3	58.9	61.4	61.4	61.4	64.1	64.1
90°	1.9	3.5	5.0	5.4	8.5	12.7	14.7	13.1	9.8	7.4	7.4
92.5°	7.8	20.9	34.2	37.5	52.7	73.0	83.0	72.8	52.3	36.9	35.5
95°	18.6	42.7	67.0	73.0	129.6	205.0	242.8	216.7	164.4	125.2	120.7
97.5°	32.3	53.6	74.8	80.1	174.5	300.4	363.4	346.9	313.9	289.1	280.6
100°	42.7	62.0	81.3	86.1	190.9	330.5	400.4	401.7	404.1	405.9	395.8
102.5°	51.6	69.7	87.7	92.2	198.5	340.1	411.0	432.0	474.0	505.6	497.0
105°	66.8	82.1	97.4	101.2	204.1	341.2	409.8	457.0	551.4	622.1	617.4
107.5°	82.3	96.5	110.8	114.3	205.0	326.0	386.4	452.2	583.9	682.7	683.8
110°	92.8	105.6	118.5	121.7	203.5	312.5	367.1	440.6	587.8	698.2	703.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	103.1	115.3	127.5	130.6	203.6	300.8	349.4	424.7	575.3	688.3	695.7
115°	118.6	129.8	141.2	144.0	205.4	287.3	328.2	400.8	545.9	654.8	665.0
117.5°	133.9	144.2	154.5	157.1	209.3	278.9	313.7	379.2	510.1	608.3	619.8
120°	142.8	152.5	162.2	164.6	212.4	276.1	307.9	367.6	487.3	577.0	588.1
122.5°	151.6	161.3	171.1	173.5	216.9	274.5	303.4	357.3	465.0	545.8	556.8
125°	165.0	173.9	182.8	185.0	222.9	273.4	298.5	344.3	435.9	504.5	514.5
127.5°	175.9	184.8	193.8	196.0	228.9	272.6	294.5	333.8	412.4	471.3	479.8
130°	181.7	191.4	201.0	203.4	233.2	273.1	292.9	327.9	397.9	450.3	458.1
132.5°	187.7	197.4	207.0	209.4	236.8	273.4	291.6	322.9	385.5	432.5	439.5
135°	196.6	205.4	214.2	216.5	240.7	273.1	289.2	315.5	367.9	407.3	413.3
137.5°	205.7	214.4	223.2	225.4	246.5	274.7	288.9	311.0	355.3	388.6	393.5
140°	213.3	221.3	229.4	231.4	250.1	275.0	287.5	306.7	345.0	373.6	378.3
142.5°	219.2	226.6	234.0	235.9	253.1	276.1	287.5	304.4	338.0	363.2	367.2
145°	228.1	234.6	241.0	242.6	257.0	276.1	285.6	299.3	326.8	347.5	350.5
147.5°	237.0	243.3	249.6	251.2	262.6	277.9	285.6	296.4	318.0	334.2	336.7
150°	242.8	248.5	254.2	255.6	265.6	278.9	285.6	294.7	313.0	326.6	328.7
152.5°	248.8	253.1	257.5	258.5	267.5	279.6	285.6	293.3	308.9	320.6	322.2
155°	257.8	261.0	264.1	264.9	271.8	281.0	285.6	291.8	304.2	313.5	314.4
157.5°	264.3	267.4	270.5	271.3	276.1	282.4	285.6	290.4	300.0	307.3	307.9
160°	268.8	271.2	273.6	274.2	278.0	283.0	285.6	289.7	298.0	304.2	304.6
162.5°	273.3	275.1	276.8	277.3	280.0	283.7	285.6	289.1	296.0	301.3	301.6
165°	278.2	279.8	281.5	281.9	283.1	284.8	285.6	288.1	293.0	296.8	297.2
167.5°	282.7	283.4	284.2	284.4	285.5	286.8	287.5	289.1	292.4	294.9	295.1
170°	285.6	286.3	287.1	287.3	287.4	287.5	287.5	289.1	292.4	294.9	294.9
172.5°	287.1	287.3	287.5	287.5	287.5	287.5	287.5	288.8	291.4	293.3	293.1
175°	289.2	289.2	289.2	289.2	288.7	287.9	287.5	288.3	289.9	291.2	291.2
177.5°	289.2	289.2	289.2	289.2	288.8	288.2	287.9	288.6	289.8	290.8	290.6
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2775.6	2767.9	2775.6	2770.6	2773.1	2765.4	2742.4	2734.7	2742.4	2750.0	2750.0
5°	2808.9	2803.8	2808.9	2808.9	2806.4	2801.3	2775.6	2770.6	2775.6	2778.2	2773.1
7.5°	2819.2	2811.5	2819.2	2814.1	2814.1	2808.9	2783.4	2778.2	2780.7	2788.5	2780.7
10°	2819.2	2811.5	2819.2	2816.6	2814.1	2808.9	2783.4	2773.1	2773.1	2780.7	2773.1
12.5°	2806.4	2801.3	2806.4	2801.3	2801.3	2796.1	2770.6	2760.3	2762.8	2765.4	2755.2
15°	2785.9	2778.2	2785.9	2780.7	2783.4	2775.6	2747.5	2737.2	2737.2	2742.4	2724.4
17.5°	2755.2	2744.9	2755.2	2752.6	2750.0	2744.9	2719.3	2709.0	2706.5	2709.0	2696.2
20°	2719.3	2711.6	2719.3	2716.8	2716.8	2706.5	2680.9	2668.1	2668.1	2668.1	2655.3
22.5°	2663.0	2655.3	2663.0	2668.1	2668.1	2665.5	2642.5	2624.5	2619.4	2619.4	2604.1
25°	2599.0	2591.3	2599.0	2599.0	2596.4	2599.0	2591.3	2581.0	2573.4	2565.7	2550.3
27.5°	2537.5	2532.4	2537.5	2532.4	2537.5	2529.9	2527.2	2524.7	2514.5	2506.8	2486.3
30°	2476.1	2471.0	2476.1	2471.0	2465.8	2460.7	2447.9	2442.8	2453.0	2447.9	2414.7
32.5°	2399.2	2394.1	2399.2	2399.2	2394.1	2394.1	2373.7	2365.9	2368.5	2383.8	2353.1
35°	2319.9	2312.2	2319.9	2317.3	2319.9	2312.2	2299.3	2296.8	2286.5	2304.5	2281.4
37.5°	2227.7	2220.0	2227.7	2227.7	2227.7	2232.8	2222.6	2214.8	2199.5	2222.6	2204.7
40°	2133.0	2122.7	2133.0	2130.3	2133.0	2138.1	2133.0	2127.8	2112.4	2130.3	2115.0
42.5°	2025.4	2022.9	2025.4	2027.9	2027.9	2038.2	2045.8	2035.7	2030.5	2017.7	2027.9
45°	1910.2	1905.1	1910.2	1915.3	1917.8	1923.0	1946.0	1946.0	1938.4	1917.8	1933.3
47.5°	1787.2	1774.4	1787.2	1802.6	1802.6	1810.3	1833.3	1851.3	1838.5	1812.9	1820.6
50°	1656.7	1659.2	1656.7	1666.9	1666.9	1695.1	1713.0	1730.9	1743.7	1713.0	1677.1
52.5°	1528.7	1526.1	1528.7	1536.3	1546.6	1559.4	1590.1	1608.1	1628.5	1610.6	1554.3
55°	1400.6	1405.7	1400.6	1403.2	1408.3	1416.0	1462.1	1480.0	1518.4	1495.4	1436.4
57.5°	1272.6	1264.9	1272.6	1277.7	1280.2	1288.0	1326.4	1359.7	1382.7	1385.3	1313.6
60°	1124.0	1113.9	1124.0	1147.1	1152.2	1157.4	1193.2	1223.9	1244.4	1252.1	1177.8
62.5°	993.5	975.6	993.5	1008.8	1019.1	1031.9	1057.5	1103.6	1121.5	1124.0	1019.1
65°	855.2	847.6	855.2	886.0	888.5	903.9	932.1	965.3	1003.7	998.7	847.6
67.5°	729.8	729.8	729.8	750.2	765.6	773.3	809.1	824.5	873.2	878.3	706.7
70°	614.5	612.0	614.5	629.8	640.1	658.0	691.4	709.3	747.7	760.5	573.6
72.5°	504.5	501.8	504.5	517.3	527.4	542.8	571.0	591.5	624.8	640.1	445.5
75°	407.2	402.0	407.2	417.3	414.8	435.3	458.3	478.8	509.6	519.8	330.3
77.5°	312.4	312.4	312.4	322.7	322.7	343.1	353.4	379.0	396.9	412.2	243.2
80°	233.0	230.4	233.0	235.6	235.6	245.8	263.8	281.7	297.0	297.0	166.5
82.5°	163.9	158.7	163.9	163.9	163.9	169.0	179.3	184.4	194.6	202.3	104.9
85°	102.4	102.4	102.4	104.9	102.4	107.6	110.1	115.2	115.2	110.1	64.1
87.5°	66.6	64.1	66.6	64.1	64.1	61.4	61.4	61.4	58.9	56.3	35.9
90°	7.4	7.4	7.4	7.4	7.4	9.8	13.1	14.7	12.7	8.5	5.4
92.5°	29.6	23.6	29.6	35.5	36.9	52.3	72.8	83.0	73.0	52.7	37.5
95°	103.0	85.2	103.0	120.7	125.2	164.4	216.7	242.8	205.0	129.6	73.0
97.5°	246.7	212.9	246.7	280.6	289.1	313.9	346.9	363.4	300.4	174.5	80.1
100°	355.5	315.2	355.5	395.8	405.9	404.1	401.7	400.4	330.5	190.9	86.1
102.5°	462.5	428.0	462.5	497.0	505.6	474.0	432.0	411.0	340.1	198.5	92.2
105°	598.9	580.3	598.9	617.4	622.1	551.4	457.0	409.8	341.2	204.1	101.2
107.5°	688.3	692.7	688.3	683.8	682.7	583.9	452.2	386.4	326.0	205.0	114.3
110°	722.3	741.7	722.3	703.0	698.2	587.8	440.6	367.1	312.5	203.5	121.7



TEST NUMBER: P934100

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	725.4	755.0	725.4	695.7	688.3	575.3	424.7	349.4	300.8	203.6	130.6
115°	706.2	747.3	706.2	665.0	654.8	545.9	400.8	328.2	287.3	205.4	144.0
117.5°	665.4	711.1	665.4	619.8	608.3	510.1	379.2	313.7	278.9	209.3	157.1
120°	632.5	676.8	632.5	588.1	577.0	487.3	367.6	307.9	276.1	212.4	164.6
122.5°	600.5	644.2	600.5	556.8	545.8	465.0	357.3	303.4	274.5	216.9	173.5
125°	554.8	595.2	554.8	514.5	504.5	435.9	344.3	298.5	273.4	222.9	185.0
127.5°	513.8	547.8	513.8	479.8	471.3	412.4	333.8	294.5	272.6	228.9	196.0
130°	489.5	520.9	489.5	458.1	450.3	397.9	327.9	292.9	273.1	233.2	203.4
132.5°	467.6	495.7	467.6	439.5	432.5	385.5	322.9	291.6	273.4	236.8	209.4
135°	437.5	461.7	437.5	413.3	407.3	367.9	315.5	289.2	273.1	240.7	216.5
137.5°	413.4	433.2	413.4	393.5	388.6	355.3	311.0	288.9	274.7	246.5	225.4
140°	396.8	415.4	396.8	378.3	373.6	345.0	306.7	287.5	275.0	250.1	231.4
142.5°	383.1	399.0	383.1	367.2	363.2	338.0	304.4	287.5	276.1	253.1	235.9
145°	362.6	374.6	362.6	350.5	347.5	326.8	299.3	285.6	276.1	257.0	242.6
147.5°	346.7	356.8	346.7	336.7	334.2	318.0	296.4	285.6	277.9	262.6	251.2
150°	336.8	345.0	336.8	328.7	326.6	313.0	294.7	285.6	278.9	265.6	255.6
152.5°	328.3	334.4	328.3	322.2	320.6	308.9	293.3	285.6	279.6	267.5	258.5
155°	318.5	322.6	318.5	314.4	313.5	304.2	291.8	285.6	281.0	271.8	264.9
157.5°	310.9	313.7	310.9	307.9	307.3	300.0	290.4	285.6	282.4	276.1	271.3
160°	306.2	307.9	306.2	304.6	304.2	298.0	289.7	285.6	283.0	278.0	274.2
162.5°	303.2	304.8	303.2	301.6	301.3	296.0	289.1	285.6	283.7	280.0	277.3
165°	298.8	300.5	298.8	297.2	296.8	293.0	288.1	285.6	284.8	283.1	281.9
167.5°	295.7	296.4	295.7	295.1	294.9	292.4	289.1	287.5	286.8	285.5	284.4
170°	294.9	294.9	294.9	294.9	294.9	292.4	289.1	287.5	287.5	287.4	287.3
172.5°	292.5	292.0	292.5	293.1	293.3	291.4	288.8	287.5	287.5	287.5	287.5
175°	291.2	291.2	291.2	291.2	291.2	289.9	288.3	287.5	287.9	288.7	289.2
177.5°	289.9	289.2	289.9	290.6	290.8	289.8	288.6	287.9	288.2	288.8	289.2
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2

TEST NUMBER: P934100

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2744.9	2729.6	2729.6	2704.0	2693.7	2686.1	2673.2	2634.8	2624.5	2614.4	2629.7
5°	2767.9	2739.8	2719.3	2673.2	2634.8	2619.4	2570.8	2478.6	2417.2	2371.0	2345.5
7.5°	2773.1	2737.2	2698.9	2627.2	2534.9	2494.0	2345.5	2176.5	2130.3	2089.5	2063.8
10°	2767.9	2727.0	2673.2	2565.7	2348.0	2276.4	2127.8	2017.7	1989.6	1981.9	1989.6
12.5°	2750.0	2711.6	2637.3	2458.2	2153.4	2104.8	2017.7	1953.7	1948.6	1961.4	2030.5
15°	2719.3	2683.5	2596.4	2314.7	2045.8	2010.0	1948.6	1925.5	1953.7	2043.3	2250.7
17.5°	2688.6	2647.6	2540.0	2174.0	1964.0	1938.4	1894.8	1940.9	2099.6	2220.0	2289.2
20°	2647.6	2599.0	2476.1	2071.5	1905.1	1882.0	1861.5	2068.9	2189.3	2232.8	2271.2
22.5°	2599.0	2547.8	2389.0	1999.8	1843.6	1825.7	1838.5	2140.6	2189.3	2220.0	2253.3
25°	2534.9	2491.4	2286.5	1943.4	1795.0	1774.4	1823.1	2133.0	2161.1	2168.8	2235.4
27.5°	2476.1	2419.7	2179.0	1892.3	1736.1	1728.4	1836.0	2099.6	2120.2	2127.8	2199.5
30°	2404.4	2319.9	2058.6	1838.5	1674.6	1672.0	1838.5	2058.6	2053.6	2074.0	2145.8
32.5°	2330.2	2171.3	1923.0	1771.9	1615.7	1613.2	1820.6	1997.2	1992.1	2020.3	2074.0
35°	2261.0	2056.1	1738.6	1695.1	1541.5	1544.0	1777.0	1925.5	1928.1	1953.7	1987.0
37.5°	2189.3	1956.2	1536.3	1610.6	1469.8	1469.8	1718.1	1858.9	1853.9	1861.5	1907.6
40°	2104.8	1800.1	1357.1	1500.5	1403.2	1395.5	1646.4	1787.2	1769.3	1766.8	1830.8
42.5°	2015.1	1628.5	1223.9	1354.6	1326.4	1316.1	1559.4	1700.2	1666.9	1674.6	1756.5
45°	1917.8	1582.4	1121.5	1144.6	1247.0	1239.4	1464.6	1600.3	1577.3	1597.8	1682.3
47.5°	1820.6	1490.2	1088.3	950.0	1162.5	1159.9	1359.7	1503.0	1490.2	1510.8	1600.3
50°	1687.4	1387.8	1085.7	814.3	1067.7	1078.0	1234.2	1408.3	1408.3	1426.3	1520.9
52.5°	1515.8	1262.3	985.9	737.4	957.7	988.4	1124.0	1326.4	1331.5	1349.4	1433.9
55°	1359.7	1131.8	914.2	678.6	827.0	893.6	1016.6	1241.9	1252.1	1270.1	1346.8
57.5°	1216.3	942.3	898.7	609.4	706.7	770.7	921.8	1159.9	1165.0	1180.4	1254.7
60°	1062.6	681.1	824.5	535.2	601.7	650.4	834.7	1062.6	1080.5	1090.8	1154.9
62.5°	888.5	494.2	747.7	483.9	550.5	560.8	763.1	970.5	993.5	1001.2	1039.5
65°	632.5	414.8	635.0	440.4	496.7	499.3	686.2	875.7	896.2	909.0	937.1
67.5°	427.6	338.0	483.9	399.4	455.8	458.3	612.0	765.6	793.8	804.0	821.9
70°	297.0	225.3	358.4	355.9	409.7	414.8	532.6	665.7	691.4	699.0	709.3
72.5°	217.6	181.8	297.0	320.1	361.0	366.2	450.7	553.1	578.7	586.3	591.5
75°	166.5	192.1	240.7	279.1	307.3	309.8	368.7	450.7	468.6	473.7	476.3
77.5°	133.1	179.3	176.6	225.3	251.0	245.8	289.3	348.3	363.6	363.6	363.6
80°	99.9	140.8	133.1	161.3	184.4	179.3	207.4	248.4	253.5	258.6	256.0
82.5°	74.2	89.6	89.6	102.4	122.9	117.8	138.3	161.3	161.3	161.3	166.5
85°	46.1	51.2	41.0	53.8	69.1	66.6	76.8	87.0	89.6	89.6	84.5
87.5°	28.2	23.1	12.8	20.4	30.7	30.7	35.9	38.4	35.9	35.9	35.9
90°	5.0	3.5	1.9	3.5	5.0	5.4	8.5	12.7	14.7	13.1	9.8
92.5°	34.2	20.9	7.8	20.9	34.2	37.5	52.7	73.0	83.0	72.8	52.3
95°	67.0	42.7	18.6	42.7	67.0	73.0	129.6	205.0	242.8	216.7	164.4
97.5°	74.8	53.6	32.3	53.6	74.8	80.1	174.5	300.4	363.4	346.9	313.9
100°	81.3	62.0	42.7	62.0	81.3	86.1	190.9	330.5	400.4	401.7	404.1
102.5°	87.7	69.7	51.6	69.7	87.7	92.2	198.5	340.1	411.0	432.0	474.0
105°	97.4	82.1	66.8	82.1	97.4	101.2	204.1	341.2	409.8	457.0	551.4
107.5°	110.8	96.5	82.3	96.5	110.8	114.3	205.0	326.0	386.4	452.2	583.9
110°	118.5	105.6	92.8	105.6	118.5	121.7	203.5	312.5	367.1	440.6	587.8

TEST NUMBER: P934100

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	127.5	115.3	103.1	115.3	127.5	130.6	203.6	300.8	349.4	424.7	575.3
115°	141.2	129.8	118.6	129.8	141.2	144.0	205.4	287.3	328.2	400.8	545.9
117.5°	154.5	144.2	133.9	144.2	154.5	157.1	209.3	278.9	313.7	379.2	510.1
120°	162.2	152.5	142.8	152.5	162.2	164.6	212.4	276.1	307.9	367.6	487.3
122.5°	171.1	161.3	151.6	161.3	171.1	173.5	216.9	274.5	303.4	357.3	465.0
125°	182.8	173.9	165.0	173.9	182.8	185.0	222.9	273.4	298.5	344.3	435.9
127.5°	193.8	184.8	175.9	184.8	193.8	196.0	228.9	272.6	294.5	333.8	412.4
130°	201.0	191.4	181.7	191.4	201.0	203.4	233.2	273.1	292.9	327.9	397.9
132.5°	207.0	197.4	187.7	197.4	207.0	209.4	236.8	273.4	291.6	322.9	385.5
135°	214.2	205.4	196.6	205.4	214.2	216.5	240.7	273.1	289.2	315.5	367.9
137.5°	223.2	214.4	205.7	214.4	223.2	225.4	246.5	274.7	288.9	311.0	355.3
140°	229.4	221.3	213.3	221.3	229.4	231.4	250.1	275.0	287.5	306.7	345.0
142.5°	234.0	226.6	219.2	226.6	234.0	235.9	253.1	276.1	287.5	304.4	338.0
145°	241.0	234.6	228.1	234.6	241.0	242.6	257.0	276.1	285.6	299.3	326.8
147.5°	249.6	243.3	237.0	243.3	249.6	251.2	262.6	277.9	285.6	296.4	318.0
150°	254.2	248.5	242.8	248.5	254.2	255.6	265.6	278.9	285.6	294.7	313.0
152.5°	257.5	253.1	248.8	253.1	257.5	258.5	267.5	279.6	285.6	293.3	308.9
155°	264.1	261.0	257.8	261.0	264.1	264.9	271.8	281.0	285.6	291.8	304.2
157.5°	270.5	267.4	264.3	267.4	270.5	271.3	276.1	282.4	285.6	290.4	300.0
160°	273.6	271.2	268.8	271.2	273.6	274.2	278.0	283.0	285.6	289.7	298.0
162.5°	276.8	275.1	273.3	275.1	276.8	277.3	280.0	283.7	285.6	289.1	296.0
165°	281.5	279.8	278.2	279.8	281.5	281.9	283.1	284.8	285.6	288.1	293.0
167.5°	284.2	283.4	282.7	283.4	284.2	284.4	285.5	286.8	287.5	289.1	292.4
170°	287.1	286.3	285.6	286.3	287.1	287.3	287.4	287.5	287.5	289.1	292.4
172.5°	287.5	287.3	287.1	287.3	287.5	287.5	287.5	287.5	287.5	288.8	291.4
175°	289.2	289.2	289.2	289.2	289.2	289.2	288.7	287.9	287.5	288.3	289.9
177.5°	289.2	289.2	289.2	289.2	289.2	289.2	288.8	288.2	287.9	288.6	289.8
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2

TEST NUMBER: P934100

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2611.7	2604.1	2614.4	2586.2	2614.4	2604.1	2611.7	2629.7	2614.4	2624.5	2634.8
5°	2291.7	2278.9	2237.9	2204.7	2237.9	2278.9	2291.7	2345.5	2371.0	2417.2	2478.6
7.5°	2048.5	2038.2	2027.9	2007.5	2027.9	2038.2	2048.5	2063.8	2089.5	2130.3	2176.5
10°	1994.7	1997.2	2012.6	2010.0	2012.6	1997.2	1994.7	1989.6	1981.9	1989.6	2017.7
12.5°	2133.0	2156.0	2240.5	2235.4	2240.5	2156.0	2133.0	2030.5	1961.4	1948.6	1953.7
15°	2291.7	2299.3	2317.3	2319.9	2317.3	2299.3	2291.7	2250.7	2043.3	1953.7	1925.5
17.5°	2307.1	2309.6	2322.4	2322.4	2322.4	2309.6	2307.1	2289.2	2220.0	2099.6	1940.9
20°	2294.3	2299.3	2325.0	2330.2	2325.0	2299.3	2294.3	2271.2	2232.8	2189.3	2068.9
22.5°	2289.2	2299.3	2319.9	2317.3	2319.9	2299.3	2289.2	2253.3	2220.0	2189.3	2140.6
25°	2263.5	2263.5	2266.1	2268.6	2266.1	2263.5	2263.5	2235.4	2168.8	2161.1	2133.0
27.5°	2209.8	2214.8	2230.3	2227.7	2230.3	2214.8	2209.8	2199.5	2127.8	2120.2	2099.6
30°	2161.1	2156.0	2143.1	2133.0	2143.1	2156.0	2161.1	2145.8	2074.0	2053.6	2058.6
32.5°	2079.2	2066.4	2053.6	2045.8	2053.6	2066.4	2079.2	2074.0	2020.3	1992.1	1997.2
35°	1981.9	1984.4	1981.9	1974.1	1981.9	1984.4	1981.9	1987.0	1953.7	1928.1	1925.5
37.5°	1912.7	1917.8	1915.3	1905.1	1915.3	1917.8	1912.7	1907.6	1861.5	1853.9	1858.9
40°	1841.0	1843.6	1841.0	1833.3	1841.0	1843.6	1841.0	1830.8	1766.8	1769.3	1787.2
42.5°	1771.9	1769.3	1761.6	1756.5	1761.6	1769.3	1771.9	1756.5	1674.6	1666.9	1700.2
45°	1692.6	1695.1	1679.8	1672.0	1679.8	1695.1	1692.6	1682.3	1597.8	1577.3	1600.3
47.5°	1613.2	1613.2	1600.3	1592.6	1600.3	1613.2	1613.2	1600.3	1510.8	1490.2	1503.0
50°	1528.7	1526.1	1508.2	1505.6	1508.2	1526.1	1528.7	1520.9	1426.3	1408.3	1408.3
52.5°	1431.3	1431.3	1433.9	1439.1	1433.9	1431.3	1431.3	1433.9	1349.4	1331.5	1326.4
55°	1346.8	1349.4	1367.4	1372.5	1367.4	1349.4	1346.8	1346.8	1270.1	1252.1	1241.9
57.5°	1259.8	1259.8	1272.6	1272.6	1272.6	1259.8	1259.8	1254.7	1180.4	1165.0	1159.9
60°	1159.9	1165.0	1175.3	1172.8	1175.3	1165.0	1159.9	1154.9	1090.8	1080.5	1062.6
62.5°	1055.0	1060.1	1062.6	1057.5	1062.6	1060.1	1055.0	1039.5	1001.2	993.5	970.5
65°	944.9	950.0	952.5	947.4	952.5	950.0	944.9	937.1	909.0	896.2	875.7
67.5°	832.2	829.7	827.0	837.3	827.0	829.7	832.2	821.9	804.0	793.8	765.6
70°	717.0	717.0	714.3	719.5	714.3	717.0	717.0	709.3	699.0	691.4	665.7
72.5°	594.1	591.5	601.7	594.1	601.7	591.5	594.1	591.5	586.3	578.7	553.1
75°	473.7	478.8	473.7	481.4	473.7	478.8	473.7	476.3	473.7	468.6	450.7
77.5°	361.0	366.2	361.0	361.0	361.0	366.2	361.0	363.6	363.6	363.6	348.3
80°	256.0	253.5	253.5	251.0	253.5	253.5	256.0	256.0	258.6	253.5	248.4
82.5°	163.9	161.3	161.3	166.5	161.3	161.3	163.9	166.5	161.3	161.3	161.3
85°	89.6	92.2	87.0	87.0	87.0	92.2	89.6	84.5	89.6	89.6	87.0
87.5°	33.3	30.7	30.7	30.7	30.7	30.7	33.3	35.9	35.9	35.9	38.4
90°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.8	13.1	14.7	12.7
92.5°	36.9	35.5	29.6	23.6	29.6	35.5	36.9	52.3	72.8	83.0	73.0
95°	125.2	120.7	103.0	85.2	103.0	120.7	125.2	164.4	216.7	242.8	205.0
97.5°	289.1	280.6	246.7	212.9	246.7	280.6	289.1	313.9	346.9	363.4	300.4
100°	405.9	395.8	355.5	315.2	355.5	395.8	405.9	404.1	401.7	400.4	330.5
102.5°	505.6	497.0	462.5	428.0	462.5	497.0	505.6	474.0	432.0	411.0	340.1
105°	622.1	617.4	598.9	580.3	598.9	617.4	622.1	551.4	457.0	409.8	341.2
107.5°	682.7	683.8	688.3	692.7	688.3	683.8	682.7	583.9	452.2	386.4	326.0
110°	698.2	703.0	722.3	741.7	722.3	703.0	698.2	587.8	440.6	367.1	312.5

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	688.3	695.7	725.4	755.0	725.4	695.7	688.3	575.3	424.7	349.4	300.8
115°	654.8	665.0	706.2	747.3	706.2	665.0	654.8	545.9	400.8	328.2	287.3
117.5°	608.3	619.8	665.4	711.1	665.4	619.8	608.3	510.1	379.2	313.7	278.9
120°	577.0	588.1	632.5	676.8	632.5	588.1	577.0	487.3	367.6	307.9	276.1
122.5°	545.8	556.8	600.5	644.2	600.5	556.8	545.8	465.0	357.3	303.4	274.5
125°	504.5	514.5	554.8	595.2	554.8	514.5	504.5	435.9	344.3	298.5	273.4
127.5°	471.3	479.8	513.8	547.8	513.8	479.8	471.3	412.4	333.8	294.5	272.6
130°	450.3	458.1	489.5	520.9	489.5	458.1	450.3	397.9	327.9	292.9	273.1
132.5°	432.5	439.5	467.6	495.7	467.6	439.5	432.5	385.5	322.9	291.6	273.4
135°	407.3	413.3	437.5	461.7	437.5	413.3	407.3	367.9	315.5	289.2	273.1
137.5°	388.6	393.5	413.4	433.2	413.4	393.5	388.6	355.3	311.0	288.9	274.7
140°	373.6	378.3	396.8	415.4	396.8	378.3	373.6	345.0	306.7	287.5	275.0
142.5°	363.2	367.2	383.1	399.0	383.1	367.2	363.2	338.0	304.4	287.5	276.1
145°	347.5	350.5	362.6	374.6	362.6	350.5	347.5	326.8	299.3	285.6	276.1
147.5°	334.2	336.7	346.7	356.8	346.7	336.7	334.2	318.0	296.4	285.6	277.9
150°	326.6	328.7	336.8	345.0	336.8	328.7	326.6	313.0	294.7	285.6	278.9
152.5°	320.6	322.2	328.3	334.4	328.3	322.2	320.6	308.9	293.3	285.6	279.6
155°	313.5	314.4	318.5	322.6	318.5	314.4	313.5	304.2	291.8	285.6	281.0
157.5°	307.3	307.9	310.9	313.7	310.9	307.9	307.3	300.0	290.4	285.6	282.4
160°	304.2	304.6	306.2	307.9	306.2	304.6	304.2	298.0	289.7	285.6	283.0
162.5°	301.3	301.6	303.2	304.8	303.2	301.6	301.3	296.0	289.1	285.6	283.7
165°	296.8	297.2	298.8	300.5	298.8	297.2	296.8	293.0	288.1	285.6	284.8
167.5°	294.9	295.1	295.7	296.4	295.7	295.1	294.9	292.4	289.1	287.5	286.8
170°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	292.4	289.1	287.5	287.5
172.5°	293.3	293.1	292.5	292.0	292.5	293.1	293.3	291.4	288.8	287.5	287.5
175°	291.2	291.2	291.2	291.2	291.2	291.2	291.2	289.9	288.3	287.5	287.9
177.5°	290.8	290.6	289.9	289.2	289.9	290.6	290.8	289.8	288.6	287.9	288.2
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2673.2	2686.1	2693.7	2704.0	2729.6
5°	2570.8	2619.4	2634.8	2673.2	2719.3
7.5°	2345.5	2494.0	2534.9	2627.2	2698.9
10°	2127.8	2276.4	2348.0	2565.7	2673.2
12.5°	2017.7	2104.8	2153.4	2458.2	2637.3
15°	1948.6	2010.0	2045.8	2314.7	2596.4
17.5°	1894.8	1938.4	1964.0	2174.0	2540.0
20°	1861.5	1882.0	1905.1	2071.5	2476.1
22.5°	1838.5	1825.7	1843.6	1999.8	2389.0
25°	1823.1	1774.4	1795.0	1943.4	2286.5
27.5°	1836.0	1728.4	1736.1	1892.3	2179.0
30°	1838.5	1672.0	1674.6	1838.5	2058.6
32.5°	1820.6	1613.2	1615.7	1771.9	1923.0
35°	1777.0	1544.0	1541.5	1695.1	1738.6
37.5°	1718.1	1469.8	1469.8	1610.6	1536.3
40°	1646.4	1395.5	1403.2	1500.5	1357.1
42.5°	1559.4	1316.1	1326.4	1354.6	1223.9
45°	1464.6	1239.4	1247.0	1144.6	1121.5
47.5°	1359.7	1159.9	1162.5	950.0	1088.3
50°	1234.2	1078.0	1067.7	814.3	1085.7
52.5°	1124.0	988.4	957.7	737.4	985.9
55°	1016.6	893.6	827.0	678.6	914.2
57.5°	921.8	770.7	706.7	609.4	898.7
60°	834.7	650.4	601.7	535.2	824.5
62.5°	763.1	560.8	550.5	483.9	747.7
65°	686.2	499.3	496.7	440.4	635.0
67.5°	612.0	458.3	455.8	399.4	483.9
70°	532.6	414.8	409.7	355.9	358.4
72.5°	450.7	366.2	361.0	320.1	297.0
75°	368.7	309.8	307.3	279.1	240.7
77.5°	289.3	245.8	251.0	225.3	176.6
80°	207.4	179.3	184.4	161.3	133.1
82.5°	138.3	117.8	122.9	102.4	89.6
85°	76.8	66.6	69.1	53.8	41.0
87.5°	35.9	30.7	30.7	20.4	12.8
90°	8.5	5.4	5.0	3.5	1.9
92.5°	52.7	37.5	34.2	20.9	7.8
95°	129.6	73.0	67.0	42.7	18.6
97.5°	174.5	80.1	74.8	53.6	32.3
100°	190.9	86.1	81.3	62.0	42.7
102.5°	198.5	92.2	87.7	69.7	51.6
105°	204.1	101.2	97.4	82.1	66.8
107.5°	205.0	114.3	110.8	96.5	82.3
110°	203.5	121.7	118.5	105.6	92.8



TEST NUMBER: P934100

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	203.6	130.6	127.5	115.3	103.1
115°	205.4	144.0	141.2	129.8	118.6
117.5°	209.3	157.1	154.5	144.2	133.9
120°	212.4	164.6	162.2	152.5	142.8
122.5°	216.9	173.5	171.1	161.3	151.6
125°	222.9	185.0	182.8	173.9	165.0
127.5°	228.9	196.0	193.8	184.8	175.9
130°	233.2	203.4	201.0	191.4	181.7
132.5°	236.8	209.4	207.0	197.4	187.7
135°	240.7	216.5	214.2	205.4	196.6
137.5°	246.5	225.4	223.2	214.4	205.7
140°	250.1	231.4	229.4	221.3	213.3
142.5°	253.1	235.9	234.0	226.6	219.2
145°	257.0	242.6	241.0	234.6	228.1
147.5°	262.6	251.2	249.6	243.3	237.0
150°	265.6	255.6	254.2	248.5	242.8
152.5°	267.5	258.5	257.5	253.1	248.8
155°	271.8	264.9	264.1	261.0	257.8
157.5°	276.1	271.3	270.5	267.4	264.3
160°	278.0	274.2	273.6	271.2	268.8
162.5°	280.0	277.3	276.8	275.1	273.3
165°	283.1	281.9	281.5	279.8	278.2
167.5°	285.5	284.4	284.2	283.4	282.7
170°	287.4	287.3	287.1	286.3	285.6
172.5°	287.5	287.5	287.5	287.3	287.1
175°	288.7	289.2	289.2	289.2	289.2
177.5°	288.8	289.2	289.2	289.2	289.2
180°	289.2	289.2	289.2	289.2	289.2

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