

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: P934500

Luminaire Tested: SQ4-FA-050U-100D-B35-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934500
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-B35-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

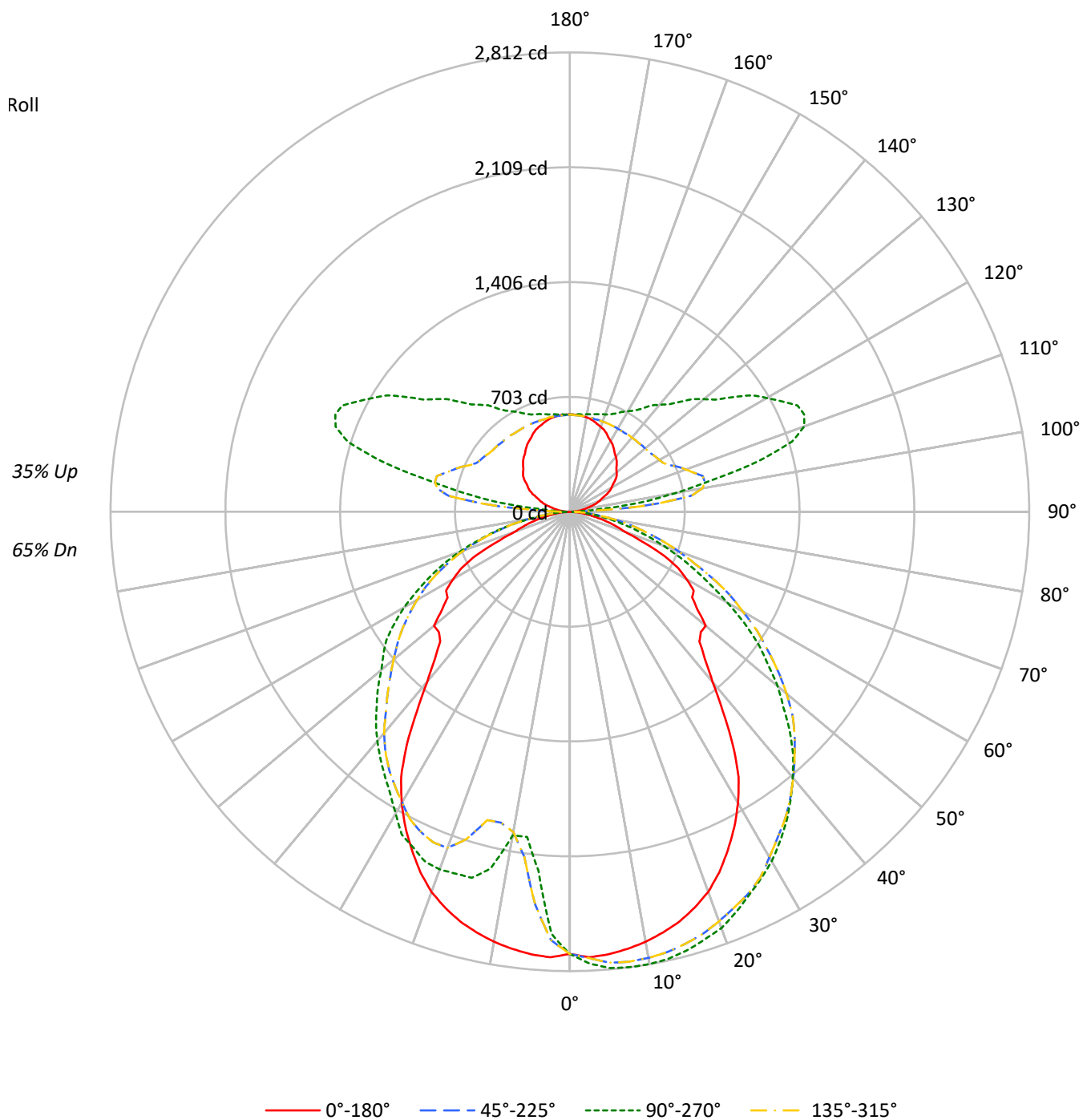
Lumens per Lamp: N/A
Luminaire Lumens: 10878.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

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			0
RW	70	50	30	10	70	50	30	10	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	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

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	2.2
10°-20°	693.7	6.4
20°-30°	1072.3	9.9
30°-40°	1280.1	11.8
40°-50°	1287.6	11.8
50°-60°	1120.3	10.3
60°-70°	794.3	7.3
70°-80°	420.3	3.9
80°-90°	106.9	1.0
90°-100°	290.1	2.7
100°-110°	762.7	7.0
110°-120°	790.9	7.3
120°-130°	634.4	5.8
130°-140°	497.8	4.6
140°-150°	382.1	3.5
150°-160°	275.1	2.5
160°-170°	168.3	1.5
170°-180°	56.9	0.5
0°-30°	2010.3	18.5
0°-40°	3290.3	30.2
0°-60°	5698.2	52.4
0°-90°	7019.8	64.5
90°-120°	1843.7	16.9
90°-150°	3357.9	30.9
90°-180°	3858.0	35.5
0°-180°	10878.0	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°	4	15	4	15	4	5
95°	38	175	38	175	38	43
105°	137	1194	137	1194	137	146
115°	244	1538	244	1538	244	241
125°	340	1225	340	1225	340	301
135°	405	950	405	950	405	313
145°	469	771	469	771	469	294
155°	530	664	530	664	530	244
165°	572	618	572	618	572	162
175°	595	599	595	599	595	56
180°	595	595	595	595	595	

TEST NUMBER: P934500

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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°	4.0	7.2	10.4	11.1	17.5	26.1	30.3	26.9	20.3	15.2	15.2
92.5°	16.0	43.1	70.3	77.1	108.4	150.1	170.9	149.8	107.6	75.9	72.9
95°	38.4	88.1	137.8	150.2	266.7	422.0	499.7	445.9	338.4	257.7	248.5
97.5°	66.3	110.1	154.0	164.9	359.2	618.2	747.8	713.8	645.7	594.8	577.3
100°	87.9	127.6	167.3	177.3	392.9	680.3	824.0	826.6	831.5	835.2	814.4
102.5°	106.3	143.4	180.4	189.7	408.3	699.9	845.6	889.0	975.6	1040.5	1022.8
105°	137.4	168.8	200.3	208.1	419.9	702.1	843.2	940.3	1134.6	1280.2	1270.6
107.5°	169.4	198.6	227.9	235.3	421.9	670.8	795.3	930.7	1201.7	1404.9	1407.2
110°	190.9	217.3	243.9	250.5	418.8	643.1	755.3	906.8	1209.6	1436.7	1446.7

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	212.1	237.3	262.5	268.8	418.9	619.0	719.0	873.9	1183.9	1416.4	1431.7
115°	244.1	267.3	290.6	296.4	422.8	591.3	675.5	824.8	1123.4	1347.3	1368.4
117.5°	275.6	296.7	317.8	323.2	430.6	573.8	645.5	780.2	1049.7	1251.9	1275.3
120°	294.0	313.9	333.8	338.8	437.0	568.0	633.5	756.6	1002.8	1187.5	1210.3
122.5°	311.9	332.0	352.0	357.1	446.1	564.9	624.3	735.2	957.0	1123.3	1145.7
125°	339.5	357.8	376.1	380.6	458.5	562.4	614.3	708.5	896.9	1038.2	1058.9
127.5°	361.9	380.3	398.7	403.4	470.9	561.0	605.9	686.8	848.6	969.9	987.3
130°	373.8	393.7	413.7	418.6	479.9	561.8	602.7	674.7	818.7	926.7	942.8
132.5°	386.2	406.1	426.1	431.0	487.3	562.4	600.0	664.4	793.3	889.9	904.4
135°	404.7	422.8	440.8	445.4	495.3	561.8	595.2	649.1	757.1	838.0	850.5
137.5°	423.5	441.4	459.3	463.8	507.3	565.3	594.4	640.0	731.3	799.7	809.9
140°	439.0	455.5	472.0	476.2	514.6	565.9	591.6	631.0	709.8	768.9	778.4
142.5°	451.0	466.2	481.5	485.3	520.7	567.9	591.6	626.2	695.5	747.4	755.6
145°	469.4	482.7	496.0	499.3	528.8	568.0	587.6	615.9	672.6	715.0	721.2
147.5°	487.7	500.7	513.7	516.9	540.4	571.9	587.6	609.9	654.4	687.8	692.9
150°	499.7	511.4	523.2	526.1	546.6	573.9	587.6	606.4	644.1	672.3	676.5
152.5°	512.1	521.0	529.8	532.1	550.6	575.3	587.6	603.7	635.8	659.9	663.1
155°	530.4	537.0	543.6	545.3	559.4	578.2	587.6	600.4	625.9	645.1	647.2
157.5°	544.0	550.4	556.8	558.4	568.1	581.1	587.6	597.5	617.3	632.3	633.7
160°	553.2	558.2	563.2	564.4	572.2	582.5	587.6	596.1	613.1	625.9	626.7
162.5°	562.4	566.2	569.9	570.8	576.5	583.9	587.6	594.8	609.2	620.0	620.7
165°	572.4	575.8	579.1	579.9	582.5	585.9	587.6	592.7	603.0	610.8	611.6
167.5°	581.6	583.1	584.8	585.2	587.3	590.1	591.6	595.0	601.7	606.8	607.2
170°	587.6	589.2	590.8	591.2	591.3	591.5	591.6	595.0	601.7	606.8	606.8
172.5°	590.8	591.2	591.5	591.6	591.6	591.6	591.6	594.3	599.6	603.6	603.3
175°	595.2	595.2	595.2	595.2	594.0	592.3	591.6	593.2	596.6	599.1	599.1
177.5°	595.2	595.2	595.2	595.2	594.2	592.9	592.3	593.7	596.3	598.4	598.0
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2

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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°	15.2	15.2	15.2	15.2	15.2	20.3	26.9	30.3	26.1	17.5	11.1
92.5°	60.8	48.7	60.8	72.9	75.9	107.6	149.8	170.9	150.1	108.4	77.1
95°	211.9	175.4	211.9	248.5	257.7	338.4	445.9	499.7	422.0	266.7	150.2
97.5°	507.8	438.2	507.8	577.3	594.8	645.7	713.8	747.8	618.2	359.2	164.9
100°	731.6	648.6	731.6	814.4	835.2	831.5	826.6	824.0	680.3	392.9	177.3
102.5°	951.8	880.7	951.8	1022.8	1040.5	975.6	889.0	845.6	699.9	408.3	189.7
105°	1232.5	1194.3	1232.5	1270.6	1280.2	1134.6	940.3	843.2	702.1	419.9	208.1
107.5°	1416.4	1425.6	1416.4	1407.2	1404.9	1201.7	930.7	795.3	670.8	421.9	235.3
110°	1486.4	1526.3	1486.4	1446.7	1436.7	1209.6	906.8	755.3	643.1	418.8	250.5



TEST NUMBER: P934500

CATALOG NUMBER: SQ4-FA-050U-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°	1492.7	1553.8	1492.7	1431.7	1416.4	1183.9	873.9	719.0	619.0	418.9	268.8
115°	1453.1	1537.8	1453.1	1368.4	1347.3	1123.4	824.8	675.5	591.3	422.8	296.4
117.5°	1369.3	1463.2	1369.3	1275.3	1251.9	1049.7	780.2	645.5	573.8	430.6	323.2
120°	1301.6	1392.8	1301.6	1210.3	1187.5	1002.8	756.6	633.5	568.0	437.0	338.8
122.5°	1235.8	1325.8	1235.8	1145.7	1123.3	957.0	735.2	624.3	564.9	446.1	357.1
125°	1141.8	1224.7	1141.8	1058.9	1038.2	896.9	708.5	614.3	562.4	458.5	380.6
127.5°	1057.3	1127.2	1057.3	987.3	969.9	848.6	686.8	605.9	561.0	470.9	403.4
130°	1007.5	1072.1	1007.5	942.8	926.7	818.7	674.7	602.7	561.8	479.9	418.6
132.5°	962.3	1020.2	962.3	904.4	889.9	793.3	664.4	600.0	562.4	487.3	431.0
135°	900.4	950.3	900.4	850.5	838.0	757.1	649.1	595.2	561.8	495.3	445.4
137.5°	850.8	891.6	850.8	809.9	799.7	731.3	640.0	594.4	565.3	507.3	463.8
140°	816.6	854.8	816.6	778.4	768.9	709.8	631.0	591.6	565.9	514.6	476.2
142.5°	788.4	821.2	788.4	755.6	747.4	695.5	626.2	591.6	567.9	520.7	485.3
145°	746.1	770.9	746.1	721.2	715.0	672.6	615.9	587.6	568.0	528.8	499.3
147.5°	713.6	734.2	713.6	692.9	687.8	654.4	609.9	587.6	571.9	540.4	516.9
150°	693.1	709.8	693.1	676.5	672.3	644.1	606.4	587.6	573.9	546.6	526.1
152.5°	675.7	688.3	675.7	663.1	659.9	635.8	603.7	587.6	575.3	550.6	532.1
155°	655.5	663.9	655.5	647.2	645.1	625.9	600.4	587.6	578.2	559.4	545.3
157.5°	639.6	645.5	639.6	633.7	632.3	617.3	597.5	587.6	581.1	568.1	558.4
160°	630.1	633.5	630.1	626.7	625.9	613.1	596.1	587.6	582.5	572.2	564.4
162.5°	623.9	627.1	623.9	620.7	620.0	609.2	594.8	587.6	583.9	576.5	570.8
165°	614.9	618.3	614.9	611.6	610.8	603.0	592.7	587.6	585.9	582.5	579.9
167.5°	608.5	610.0	608.5	607.2	606.8	601.7	595.0	591.6	590.1	587.3	585.2
170°	606.8	606.8	606.8	606.8	606.8	601.7	595.0	591.6	591.5	591.3	591.2
172.5°	602.0	600.8	602.0	603.3	603.6	599.6	594.3	591.6	591.6	591.6	591.6
175°	599.1	599.1	599.1	599.1	599.1	596.6	593.2	591.6	592.3	594.0	595.2
177.5°	596.6	595.2	596.6	598.0	598.4	596.3	593.7	592.3	592.9	594.2	595.2
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2

TEST NUMBER: P934500

CATALOG NUMBER: SQ4-FA-050U-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°	10.4	7.2	4.0	7.2	10.4	11.1	17.5	26.1	30.3	26.9	20.3
92.5°	70.3	43.1	16.0	43.1	70.3	77.1	108.4	150.1	170.9	149.8	107.6
95°	137.8	88.1	38.4	88.1	137.8	150.2	266.7	422.0	499.7	445.9	338.4
97.5°	154.0	110.1	66.3	110.1	154.0	164.9	359.2	618.2	747.8	713.8	645.7
100°	167.3	127.6	87.9	127.6	167.3	177.3	392.9	680.3	824.0	826.6	831.5
102.5°	180.4	143.4	106.3	143.4	180.4	189.7	408.3	699.9	845.6	889.0	975.6
105°	200.3	168.8	137.4	168.8	200.3	208.1	419.9	702.1	843.2	940.3	1134.6
107.5°	227.9	198.6	169.4	198.6	227.9	235.3	421.9	670.8	795.3	930.7	1201.7
110°	243.9	217.3	190.9	217.3	243.9	250.5	418.8	643.1	755.3	906.8	1209.6

TEST NUMBER: P934500

CATALOG NUMBER: SQ4-FA-050U-100D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	262.5	237.3	212.1	237.3	262.5	268.8	418.9	619.0	719.0	873.9	1183.9
115°	290.6	267.3	244.1	267.3	290.6	296.4	422.8	591.3	675.5	824.8	1123.4
117.5°	317.8	296.7	275.6	296.7	317.8	323.2	430.6	573.8	645.5	780.2	1049.7
120°	333.8	313.9	294.0	313.9	333.8	338.8	437.0	568.0	633.5	756.6	1002.8
122.5°	352.0	332.0	311.9	332.0	352.0	357.1	446.1	564.9	624.3	735.2	957.0
125°	376.1	357.8	339.5	357.8	376.1	380.6	458.5	562.4	614.3	708.5	896.9
127.5°	398.7	380.3	361.9	380.3	398.7	403.4	470.9	561.0	605.9	686.8	848.6
130°	413.7	393.7	373.8	393.7	413.7	418.6	479.9	561.8	602.7	674.7	818.7
132.5°	426.1	406.1	386.2	406.1	426.1	431.0	487.3	562.4	600.0	664.4	793.3
135°	440.8	422.8	404.7	422.8	440.8	445.4	495.3	561.8	595.2	649.1	757.1
137.5°	459.3	441.4	423.5	441.4	459.3	463.8	507.3	565.3	594.4	640.0	731.3
140°	472.0	455.5	439.0	455.5	472.0	476.2	514.6	565.9	591.6	631.0	709.8
142.5°	481.5	466.2	451.0	466.2	481.5	485.3	520.7	567.9	591.6	626.2	695.5
145°	496.0	482.7	469.4	482.7	496.0	499.3	528.8	568.0	587.6	615.9	672.6
147.5°	513.7	500.7	487.7	500.7	513.7	516.9	540.4	571.9	587.6	609.9	654.4
150°	523.2	511.4	499.7	511.4	523.2	526.1	546.6	573.9	587.6	606.4	644.1
152.5°	529.8	521.0	512.1	521.0	529.8	532.1	550.6	575.3	587.6	603.7	635.8
155°	543.6	537.0	530.4	537.0	543.6	545.3	559.4	578.2	587.6	600.4	625.9
157.5°	556.8	550.4	544.0	550.4	556.8	558.4	568.1	581.1	587.6	597.5	617.3
160°	563.2	558.2	553.2	558.2	563.2	564.4	572.2	582.5	587.6	596.1	613.1
162.5°	569.9	566.2	562.4	566.2	569.9	570.8	576.5	583.9	587.6	594.8	609.2
165°	579.1	575.8	572.4	575.8	579.1	579.9	582.5	585.9	587.6	592.7	603.0
167.5°	584.8	583.1	581.6	583.1	584.8	585.2	587.3	590.1	591.6	595.0	601.7
170°	590.8	589.2	587.6	589.2	590.8	591.2	591.3	591.5	591.6	595.0	601.7
172.5°	591.5	591.2	590.8	591.2	591.5	591.6	591.6	591.6	591.6	594.3	599.6
175°	595.2	595.2	595.2	595.2	595.2	595.2	594.0	592.3	591.6	593.2	596.6
177.5°	595.2	595.2	595.2	595.2	595.2	595.2	594.2	592.9	592.3	593.7	596.3
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2

TEST NUMBER: P934500

CATALOG NUMBER: SQ4-FA-050U-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°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	20.3	26.9	30.3	26.1
92.5°	75.9	72.9	60.8	48.7	60.8	72.9	75.9	107.6	149.8	170.9	150.1
95°	257.7	248.5	211.9	175.4	211.9	248.5	257.7	338.4	445.9	499.7	422.0
97.5°	594.8	577.3	507.8	438.2	507.8	577.3	594.8	645.7	713.8	747.8	618.2
100°	835.2	814.4	731.6	648.6	731.6	814.4	835.2	831.5	826.6	824.0	680.3
102.5°	1040.5	1022.8	951.8	880.7	951.8	1022.8	1040.5	975.6	889.0	845.6	699.9
105°	1280.2	1270.6	1232.5	1194.3	1232.5	1270.6	1280.2	1134.6	940.3	843.2	702.1
107.5°	1404.9	1407.2	1416.4	1425.6	1416.4	1407.2	1404.9	1201.7	930.7	795.3	670.8
110°	1436.7	1446.7	1486.4	1526.3	1486.4	1446.7	1436.7	1209.6	906.8	755.3	643.1

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1416.4	1431.7	1492.7	1553.8	1492.7	1431.7	1416.4	1183.9	873.9	719.0	619.0
115°	1347.3	1368.4	1453.1	1537.8	1453.1	1368.4	1347.3	1123.4	824.8	675.5	591.3
117.5°	1251.9	1275.3	1369.3	1463.2	1369.3	1275.3	1251.9	1049.7	780.2	645.5	573.8
120°	1187.5	1210.3	1301.6	1392.8	1301.6	1210.3	1187.5	1002.8	756.6	633.5	568.0
122.5°	1123.3	1145.7	1235.8	1325.8	1235.8	1145.7	1123.3	957.0	735.2	624.3	564.9
125°	1038.2	1058.9	1141.8	1224.7	1141.8	1058.9	1038.2	896.9	708.5	614.3	562.4
127.5°	969.9	987.3	1057.3	1127.2	1057.3	987.3	969.9	848.6	686.8	605.9	561.0
130°	926.7	942.8	1007.5	1072.1	1007.5	942.8	926.7	818.7	674.7	602.7	561.8
132.5°	889.9	904.4	962.3	1020.2	962.3	904.4	889.9	793.3	664.4	600.0	562.4
135°	838.0	850.5	900.4	950.3	900.4	850.5	838.0	757.1	649.1	595.2	561.8
137.5°	799.7	809.9	850.8	891.6	850.8	809.9	799.7	731.3	640.0	594.4	565.3
140°	768.9	778.4	816.6	854.8	816.6	778.4	768.9	709.8	631.0	591.6	565.9
142.5°	747.4	755.6	788.4	821.2	788.4	755.6	747.4	695.5	626.2	591.6	567.9
145°	715.0	721.2	746.1	770.9	746.1	721.2	715.0	672.6	615.9	587.6	568.0
147.5°	687.8	692.9	713.6	734.2	713.6	692.9	687.8	654.4	609.9	587.6	571.9
150°	672.3	676.5	693.1	709.8	693.1	676.5	672.3	644.1	606.4	587.6	573.9
152.5°	659.9	663.1	675.7	688.3	675.7	663.1	659.9	635.8	603.7	587.6	575.3
155°	645.1	647.2	655.5	663.9	655.5	647.2	645.1	625.9	600.4	587.6	578.2
157.5°	632.3	633.7	639.6	645.5	639.6	633.7	632.3	617.3	597.5	587.6	581.1
160°	625.9	626.7	630.1	633.5	630.1	626.7	625.9	613.1	596.1	587.6	582.5
162.5°	620.0	620.7	623.9	627.1	623.9	620.7	620.0	609.2	594.8	587.6	583.9
165°	610.8	611.6	614.9	618.3	614.9	611.6	610.8	603.0	592.7	587.6	585.9
167.5°	606.8	607.2	608.5	610.0	608.5	607.2	606.8	601.7	595.0	591.6	590.1
170°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	601.7	595.0	591.6	591.5
172.5°	603.6	603.3	602.0	600.8	602.0	603.3	603.6	599.6	594.3	591.6	591.6
175°	599.1	599.1	599.1	599.1	599.1	599.1	599.1	596.6	593.2	591.6	592.3
177.5°	598.4	598.0	596.6	595.2	596.6	598.0	598.4	596.3	593.7	592.3	592.9
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2

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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°	17.5	11.1	10.4	7.2	4.0
92.5°	108.4	77.1	70.3	43.1	16.0
95°	266.7	150.2	137.8	88.1	38.4
97.5°	359.2	164.9	154.0	110.1	66.3
100°	392.9	177.3	167.3	127.6	87.9
102.5°	408.3	189.7	180.4	143.4	106.3
105°	419.9	208.1	200.3	168.8	137.4
107.5°	421.9	235.3	227.9	198.6	169.4
110°	418.8	250.5	243.9	217.3	190.9



TEST NUMBER: P934500

CATALOG NUMBER: SQ4-FA-050U-100D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	418.9	268.8	262.5	237.3	212.1
115°	422.8	296.4	290.6	267.3	244.1
117.5°	430.6	323.2	317.8	296.7	275.6
120°	437.0	338.8	333.8	313.9	294.0
122.5°	446.1	357.1	352.0	332.0	311.9
125°	458.5	380.6	376.1	357.8	339.5
127.5°	470.9	403.4	398.7	380.3	361.9
130°	479.9	418.6	413.7	393.7	373.8
132.5°	487.3	431.0	426.1	406.1	386.2
135°	495.3	445.4	440.8	422.8	404.7
137.5°	507.3	463.8	459.3	441.4	423.5
140°	514.6	476.2	472.0	455.5	439.0
142.5°	520.7	485.3	481.5	466.2	451.0
145°	528.8	499.3	496.0	482.7	469.4
147.5°	540.4	516.9	513.7	500.7	487.7
150°	546.6	526.1	523.2	511.4	499.7
152.5°	550.6	532.1	529.8	521.0	512.1
155°	559.4	545.3	543.6	537.0	530.4
157.5°	568.1	558.4	556.8	550.4	544.0
160°	572.2	564.4	563.2	558.2	553.2
162.5°	576.5	570.8	569.9	566.2	562.4
165°	582.5	579.9	579.1	575.8	572.4
167.5°	587.3	585.2	584.8	583.1	581.6
170°	591.3	591.2	590.8	589.2	587.6
172.5°	591.6	591.6	591.5	591.2	590.8
175°	594.0	595.2	595.2	595.2	595.2
177.5°	594.2	595.2	595.2	595.2	595.2
180°	595.2	595.2	595.2	595.2	595.2

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