

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: P936006

Luminaire Tested: SQ4-FA-150U-075D-B50-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936006
REPORT IS A COMBINATION OF REPORTS P933774 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-075D-B50-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

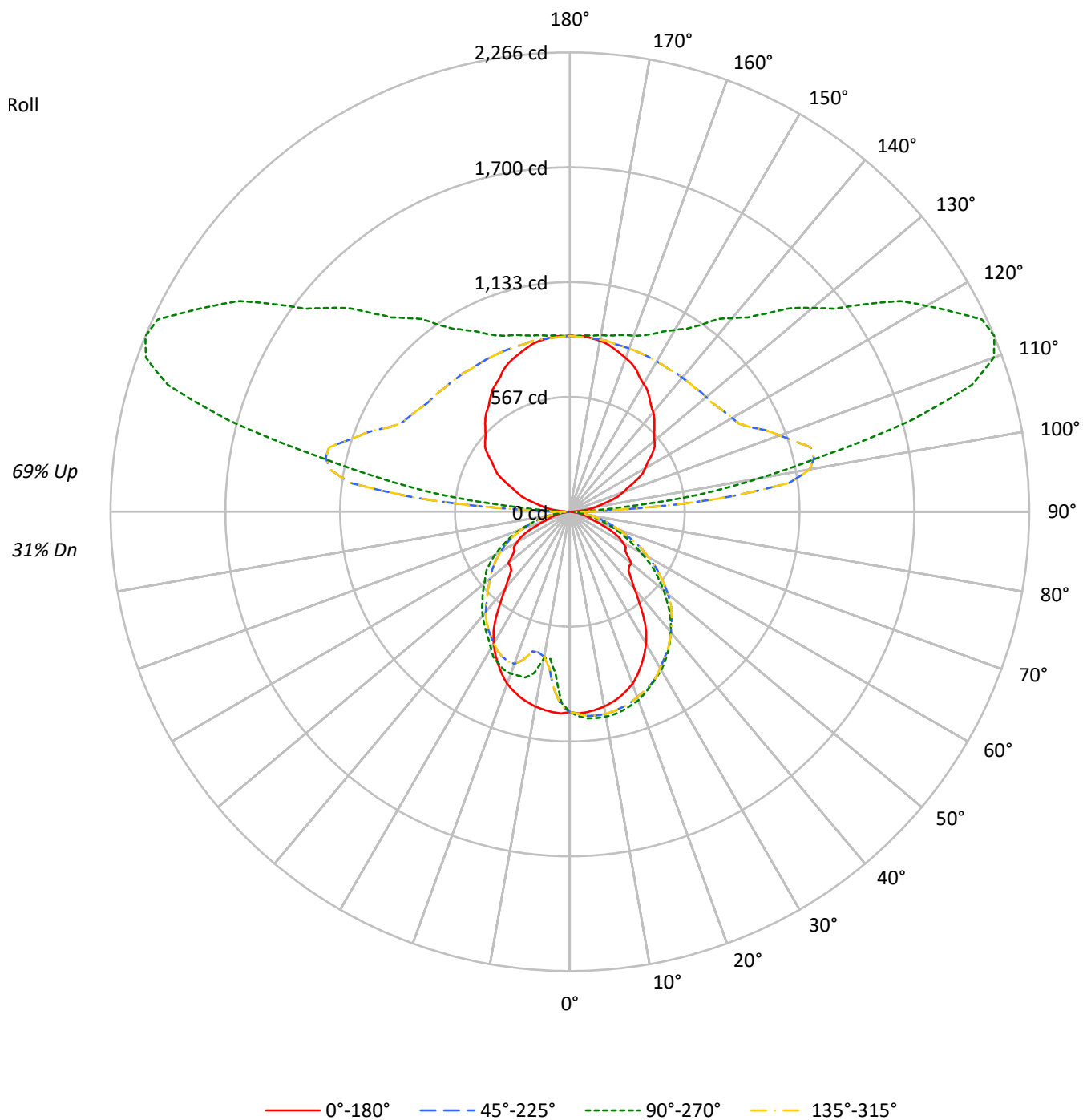
Lumens per Lamp: N/A
Luminaire Lumens: 8190.2 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 63.6
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9161	9161	9161	9161
5°	9220	9249	9220	7272
10°	9148	9111	9148	6513
15°	9039	8914	9039	7442
20°	8839	8679	8839	7458
25°	8443	8338	8443	7300
30°	7932	8055	7932	6953
35°	7062	7697	7062	6572
40°	5874	7275	5874	6283
45°	5239	6782	5239	5952
50°	5553	6193	5553	5620
55°	5209	5560	5209	5427
60°	5349	4722	5349	4972
65°	4826	3903	4826	4364
70°	3321	3110	3321	3657
75°	2879	2298	2879	2753
80°	2275	1521	2275	1654
85°	1234	806	1234	685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 8044 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	1.1
10°-20°	253.1	3.1
20°-30°	391.2	4.8
30°-40°	467.0	5.7
40°-50°	469.7	5.7
50°-60°	408.7	5.0
60°-70°	289.8	3.5
70°-80°	153.3	1.9
80°-90°	41.5	0.5
90°-100°	423.1	5.2
100°-110°	1112.4	13.6
110°-120°	1153.4	14.1
120°-130°	925.2	11.3
130°-140°	725.9	8.9
140°-150°	557.2	6.8
150°-160°	401.3	4.9
160°-170°	245.5	3.0
170°-180°	82.9	1.0
0°-30°	733.4	9.0
0°-40°	1200.3	14.7
0°-60°	2078.8	25.4
0°-90°	2563.4	31.3
90°-120°	2688.9	32.8
90°-150°	4897.1	59.8
90°-180°	5627.0	68.7
0°-180°	8190.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	987	987	987	987	987	
5°	992	1023	992	804	992	94
15°	947	1014	947	846	947	267
25°	834	945	834	828	834	383
35°	634	844	634	720	634	392
45°	409	695	409	610	409	328
55°	334	513	334	501	334	306
65°	232	309	232	346	232	221
75°	88	147	88	176	88	92
85°	15	37	15	32	15	20
90°	6	22	6	22	6	5
95°	56	256	56	256	56	62
105°	200	1742	200	1742	200	212
115°	356	2243	356	2243	356	352
125°	495	1786	495	1786	495	440
135°	590	1386	590	1386	590	457
145°	684	1124	684	1124	684	429
155°	774	968	774	968	774	355
165°	835	902	835	902	835	236
175°	868	874	868	874	868	82
180°	868	868	868	868	868	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	995.7	995.7	1001.4	1003.3	1003.3	1000.5	997.7	1000.5	1008.9	1011.7	1010.8
5°	992.0	999.6	1009.8	1011.7	1013.6	1012.6	1010.8	1012.6	1022.0	1023.9	1024.8
7.5°	984.5	998.6	1011.7	1014.5	1017.3	1014.5	1013.6	1015.4	1024.8	1026.7	1026.7
10°	975.2	994.8	1009.8	1011.7	1014.5	1011.7	1011.7	1015.4	1024.8	1026.7	1027.6
12.5°	962.1	989.2	1003.3	1005.2	1008.9	1008.0	1007.0	1010.8	1020.1	1022.0	1022.0
15°	947.2	978.9	992.0	993.9	1000.5	998.6	998.6	1002.4	1012.6	1015.4	1014.5
17.5°	926.6	965.8	980.8	983.6	988.3	987.3	988.3	992.0	1001.4	1003.3	1004.2
20°	903.3	948.1	965.8	968.7	973.3	973.3	973.3	978.0	987.3	991.1	991.1
22.5°	871.5	929.4	948.1	950.0	955.6	955.6	957.4	964.0	972.4	973.3	973.3
25°	834.2	908.9	924.8	930.4	936.0	938.8	941.6	945.3	948.1	947.2	948.1
27.5°	794.9	882.7	903.3	907.0	914.5	917.3	921.0	922.0	922.9	925.7	923.8
30°	751.0	846.3	877.1	880.9	893.0	894.9	891.1	893.0	897.7	899.5	901.4
32.5°	701.5	792.1	850.0	858.4	869.6	864.0	863.1	865.9	873.4	873.4	875.3
35°	634.3	750.1	824.8	832.3	840.7	834.2	837.9	838.8	843.5	846.3	845.4
37.5°	560.5	713.7	798.7	804.3	810.8	802.4	808.0	810.8	814.5	812.7	812.7
40°	495.1	656.7	767.8	771.6	777.2	770.6	776.2	778.1	780.0	778.1	777.2
42.5°	446.5	594.1	735.2	739.8	736.1	740.8	742.6	746.4	743.6	739.8	739.8
45°	409.2	577.3	699.7	705.3	699.7	707.1	709.9	709.9	701.5	699.7	698.7
47.5°	397.0	543.7	664.2	664.2	661.4	670.7	675.4	668.8	660.4	657.6	657.6
50°	396.1	506.3	615.6	611.9	624.9	636.1	631.5	624.9	618.4	608.1	608.1
52.5°	359.7	460.6	553.0	567.0	587.6	594.1	586.6	580.1	568.9	564.2	560.5
55°	333.5	412.9	496.0	524.1	545.5	554.0	539.9	533.4	516.6	513.8	511.9
57.5°	327.8	343.8	443.7	479.2	505.4	504.5	496.0	483.9	469.9	467.1	466.2
60°	300.7	248.4	387.7	429.7	456.8	454.0	446.5	435.3	422.3	420.4	418.5
62.5°	272.7	180.3	324.1	371.8	410.1	409.2	402.6	385.8	376.5	371.8	368.1
65°	231.6	151.3	230.7	309.2	364.4	366.2	352.2	340.1	329.7	324.1	323.2
67.5°	176.5	123.3	156.0	257.8	320.4	318.5	300.7	295.1	282.1	279.3	273.7
70°	130.8	82.2	108.3	209.2	277.4	272.7	258.7	252.2	240.0	233.5	229.8
72.5°	108.3	66.3	79.4	162.5	233.5	227.9	215.8	208.3	198.0	192.4	188.7
75°	87.8	70.0	60.7	120.5	189.6	185.9	174.7	167.2	158.8	151.3	152.2
77.5°	64.4	65.4	48.6	88.7	150.4	144.8	138.2	128.9	125.2	117.7	117.7
80°	48.6	51.4	36.4	60.7	108.3	108.3	102.7	96.2	89.7	85.9	85.9
82.5°	32.7	32.7	27.1	38.3	73.8	71.0	67.2	65.4	61.6	59.8	59.8
85°	14.9	18.7	16.8	23.4	40.2	42.0	42.0	40.2	39.2	37.4	38.3
87.5°	4.7	8.4	10.3	13.1	20.5	21.5	22.4	22.4	22.4	23.4	23.4
90°	5.8	10.5	15.1	16.3	25.7	38.1	44.3	39.3	29.5	22.1	22.1
92.5°	23.3	62.9	102.6	112.5	158.0	218.8	249.3	218.5	156.9	110.7	106.3
95°	55.9	128.4	200.9	219.0	388.9	615.5	728.8	650.3	493.4	375.7	362.4
97.5°	96.7	160.6	224.6	240.6	523.9	901.7	1090.5	1040.9	941.8	867.4	842.0
100°	128.1	186.1	244.1	258.6	573.0	992.2	1201.8	1205.4	1212.7	1218.1	1187.9
102.5°	155.0	209.1	263.2	276.7	595.6	1020.7	1233.3	1296.4	1422.8	1517.6	1491.7
105°	200.4	246.3	292.1	303.6	612.2	1023.9	1229.7	1371.3	1654.6	1867.1	1853.1
107.5°	247.0	289.7	332.5	343.2	615.4	978.4	1159.8	1357.4	1752.5	2048.8	2052.2
110°	278.4	317.0	355.7	365.3	610.7	937.9	1101.6	1322.5	1764.1	2095.4	2109.9

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	309.3	346.1	382.9	392.1	610.9	902.7	1048.6	1274.6	1726.7	2065.7	2088.0
115°	355.9	389.9	423.8	432.3	616.5	862.3	985.1	1202.8	1638.3	1964.9	1995.9
117.5°	402.0	432.8	463.6	471.3	628.0	837.0	941.4	1137.9	1530.9	1825.7	1860.0
120°	428.7	457.8	486.7	494.0	637.3	828.4	923.9	1103.4	1462.6	1731.9	1765.2
122.5°	455.0	484.2	513.5	520.8	650.7	824.0	910.6	1072.2	1395.6	1638.1	1670.9
125°	495.2	521.8	548.5	555.2	668.7	820.2	896.0	1033.3	1308.0	1514.0	1544.3
127.5°	527.8	554.7	581.6	588.3	686.8	818.1	883.8	1001.7	1237.6	1414.4	1439.9
130°	545.3	574.2	603.2	610.5	700.0	819.4	879.1	984.1	1194.0	1351.5	1375.0
132.5°	563.3	592.3	621.3	628.6	710.7	820.2	875.0	968.9	1156.9	1297.9	1319.0
135°	590.1	616.5	642.9	649.5	722.4	819.4	868.0	946.7	1104.1	1222.1	1240.4
137.5°	617.5	643.6	669.8	676.3	739.8	824.5	866.8	933.3	1066.4	1166.3	1181.1
140°	640.3	664.4	688.5	694.4	750.6	825.4	862.7	920.2	1035.2	1121.4	1135.3
142.5°	657.7	680.0	702.2	707.8	759.4	828.3	862.7	913.3	1014.2	1090.0	1101.9
145°	684.5	704.0	723.3	728.1	771.1	828.4	856.9	898.2	980.8	1042.7	1051.8
147.5°	711.2	730.2	749.1	753.8	788.2	834.1	856.9	889.4	954.4	1003.1	1010.6
150°	728.8	745.9	762.9	767.2	797.1	837.0	856.9	884.4	939.2	980.4	986.5
152.5°	746.8	759.8	772.7	776.0	803.0	838.9	856.9	880.4	927.3	962.4	967.0
155°	773.6	783.3	792.8	795.2	815.8	843.2	856.9	875.6	912.9	940.8	943.9
157.5°	793.4	802.8	812.0	814.4	828.6	847.5	856.9	871.4	900.4	922.1	924.3
160°	806.8	814.1	821.4	823.1	834.4	849.5	856.9	869.4	894.2	912.8	914.0
162.5°	820.2	825.7	831.1	832.5	840.6	851.5	856.9	867.4	888.4	904.1	905.2
165°	834.8	839.7	844.6	845.8	849.6	854.5	856.9	864.4	879.5	890.7	891.9
167.5°	848.2	850.5	852.8	853.4	856.5	860.7	862.7	867.7	877.5	884.9	885.4
170°	856.9	859.3	861.6	862.2	862.4	862.6	862.7	867.7	877.5	884.9	884.9
172.5°	861.6	862.1	862.6	862.7	862.7	862.7	862.7	866.7	874.4	880.2	879.7
175°	868.0	868.0	868.0	868.0	866.2	863.9	862.7	865.2	870.1	873.9	873.9
177.5°	868.0	868.0	868.0	868.0	866.7	864.9	864.0	865.9	869.7	872.6	872.1
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	1012.6	1009.8	1012.6	1010.8	1011.7	1008.9	1000.5	997.7	1000.5	1003.3	1003.3
5°	1024.8	1022.9	1024.8	1024.8	1023.9	1022.0	1012.6	1010.8	1012.6	1013.6	1011.7
7.5°	1028.5	1025.7	1028.5	1026.7	1026.7	1024.8	1015.4	1013.6	1014.5	1017.3	1014.5
10°	1028.5	1025.7	1028.5	1027.6	1026.7	1024.8	1015.4	1011.7	1011.7	1014.5	1011.7
12.5°	1023.9	1022.0	1023.9	1022.0	1022.0	1020.1	1010.8	1007.0	1008.0	1008.9	1005.2
15°	1016.4	1013.6	1016.4	1014.5	1015.4	1012.6	1002.4	998.6	998.6	1000.5	993.9
17.5°	1005.2	1001.4	1005.2	1004.2	1003.3	1001.4	992.0	988.3	987.3	988.3	983.6
20°	992.0	989.2	992.0	991.1	991.1	987.3	978.0	973.3	973.3	973.3	968.7
22.5°	971.5	968.7	971.5	973.3	973.3	972.4	964.0	957.4	955.6	955.6	950.0
25°	948.1	945.3	948.1	948.1	947.2	948.1	945.3	941.6	938.8	936.0	930.4
27.5°	925.7	923.8	925.7	923.8	925.7	922.9	922.0	921.0	917.3	914.5	907.0
30°	903.3	901.4	903.3	901.4	899.5	897.7	893.0	891.1	894.9	893.0	880.9
32.5°	875.3	873.4	875.3	875.3	873.4	873.4	865.9	863.1	864.0	869.6	858.4
35°	846.3	843.5	846.3	845.4	846.3	843.5	838.8	837.9	834.2	840.7	832.3
37.5°	812.7	809.9	812.7	812.7	812.7	814.5	810.8	808.0	802.4	810.8	804.3
40°	778.1	774.4	778.1	777.2	778.1	780.0	778.1	776.2	770.6	777.2	771.6
42.5°	738.9	738.0	738.9	739.8	739.8	743.6	746.4	742.6	740.8	736.1	739.8
45°	696.9	695.0	696.9	698.7	699.7	701.5	709.9	709.9	707.1	699.7	705.3
47.5°	652.0	647.4	652.0	657.6	657.6	660.4	668.8	675.4	670.7	661.4	664.2
50°	604.4	605.3	604.4	608.1	608.1	618.4	624.9	631.5	636.1	624.9	611.9
52.5°	557.7	556.8	557.7	560.5	564.2	568.9	580.1	586.6	594.1	587.6	567.0
55°	511.0	512.9	511.0	511.9	513.8	516.6	533.4	539.9	554.0	545.5	524.1
57.5°	464.3	461.5	464.3	466.2	467.1	469.9	483.9	496.0	504.5	505.4	479.2
60°	410.1	406.4	410.1	418.5	420.4	422.3	435.3	446.5	454.0	456.8	429.7
62.5°	362.5	355.9	362.5	368.1	371.8	376.5	385.8	402.6	409.2	410.1	371.8
65°	312.0	309.2	312.0	323.2	324.1	329.7	340.1	352.2	366.2	364.4	309.2
67.5°	266.2	266.2	266.2	273.7	279.3	282.1	295.1	300.7	318.5	320.4	257.8
70°	224.2	223.2	224.2	229.8	233.5	240.0	252.2	258.7	272.7	277.4	209.2
72.5°	184.0	183.1	184.0	188.7	192.4	198.0	208.3	215.8	227.9	233.5	162.5
75°	148.5	146.6	148.5	152.2	151.3	158.8	167.2	174.7	185.9	189.6	120.5
77.5°	113.9	113.9	113.9	117.7	117.7	125.2	128.9	138.2	144.8	150.4	88.7
80°	85.0	84.1	85.0	85.9	85.9	89.7	96.2	102.7	108.3	108.3	60.7
82.5°	59.8	57.9	59.8	59.8	59.8	61.6	65.4	67.2	71.0	73.8	38.3
85°	37.4	37.4	37.4	38.3	37.4	39.2	40.2	42.0	42.0	40.2	23.4
87.5°	24.3	23.4	24.3	23.4	23.4	22.4	22.4	22.4	21.5	20.5	13.1
90°	22.1	22.1	22.1	22.1	22.1	29.5	39.3	44.3	38.1	25.7	16.3
92.5°	88.6	71.1	88.6	106.3	110.7	156.9	218.5	249.3	218.8	158.0	112.5
95°	309.1	255.7	309.1	362.4	375.7	493.4	650.3	728.8	615.5	388.9	219.0
97.5°	740.6	639.0	740.6	842.0	867.4	941.8	1040.9	1090.5	901.7	523.9	240.6
100°	1067.0	946.0	1067.0	1187.9	1218.1	1212.7	1205.4	1201.8	992.2	573.0	258.6
102.5°	1388.1	1284.5	1388.1	1491.7	1517.6	1422.8	1296.4	1233.3	1020.7	595.6	276.7
105°	1797.5	1741.8	1797.5	1853.1	1867.1	1654.6	1371.3	1229.7	1023.9	612.2	303.6
107.5°	2065.6	2079.1	2065.6	2052.2	2048.8	1752.5	1357.4	1159.8	978.4	615.4	343.2
110°	2167.9	2225.9	2167.9	2109.9	2095.4	1764.1	1322.5	1101.6	937.9	610.7	365.3

TEST NUMBER: P936006

CATALOG NUMBER: SQ4-FA-150U-075D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2177.1	2266.1	2177.1	2088.0	2065.7	1726.7	1274.6	1048.6	902.7	610.9	392.1
115°	2119.3	2242.8	2119.3	1995.9	1964.9	1638.3	1202.8	985.1	862.3	616.5	432.3
117.5°	1996.9	2133.8	1996.9	1860.0	1825.7	1530.9	1137.9	941.4	837.0	628.0	471.3
120°	1898.3	2031.4	1898.3	1765.2	1731.9	1462.6	1103.4	923.9	828.4	637.3	494.0
122.5°	1802.2	1933.5	1802.2	1670.9	1638.1	1395.6	1072.2	910.6	824.0	650.7	520.8
125°	1665.1	1786.1	1665.1	1544.3	1514.0	1308.0	1033.3	896.0	820.2	668.7	555.2
127.5°	1541.9	1643.9	1541.9	1439.9	1414.4	1237.6	1001.7	883.8	818.1	686.8	588.3
130°	1469.3	1563.5	1469.3	1375.0	1351.5	1194.0	984.1	879.1	819.4	700.0	610.5
132.5°	1403.3	1487.8	1403.3	1319.0	1297.9	1156.9	968.9	875.0	820.2	710.7	628.6
135°	1313.1	1385.9	1313.1	1240.4	1222.1	1104.1	946.7	868.0	819.4	722.4	649.5
137.5°	1240.7	1300.2	1240.7	1181.1	1166.3	1066.4	933.3	866.8	824.5	739.8	676.3
140°	1190.9	1246.6	1190.9	1135.3	1121.4	1035.2	920.2	862.7	825.4	750.6	694.4
142.5°	1149.8	1197.7	1149.8	1101.9	1090.0	1014.2	913.3	862.7	828.3	759.4	707.8
145°	1088.1	1124.3	1088.1	1051.8	1042.7	980.8	898.2	856.9	828.4	771.1	728.1
147.5°	1040.7	1070.7	1040.7	1010.6	1003.1	954.4	889.4	856.9	834.1	788.2	753.8
150°	1010.9	1035.2	1010.9	986.5	980.4	939.2	884.4	856.9	837.0	797.1	767.2
152.5°	985.4	1003.7	985.4	967.0	962.4	927.3	880.4	856.9	838.9	803.0	776.0
155°	956.0	968.2	956.0	943.9	940.8	912.9	875.6	856.9	843.2	815.8	795.2
157.5°	932.8	941.4	932.8	924.3	922.1	900.4	871.4	856.9	847.5	828.6	814.4
160°	919.0	923.9	919.0	914.0	912.8	894.2	869.4	856.9	849.5	834.4	823.1
162.5°	909.9	914.6	909.9	905.2	904.1	888.4	867.4	856.9	851.5	840.6	832.5
165°	896.8	901.8	896.8	891.9	890.7	879.5	864.4	856.9	854.5	849.6	845.8
167.5°	887.5	889.5	887.5	885.4	884.9	877.5	867.7	862.7	860.7	856.5	853.4
170°	884.9	884.9	884.9	884.9	884.9	877.5	867.7	862.7	862.6	862.4	862.2
172.5°	878.0	876.2	878.0	879.7	880.2	874.4	866.7	862.7	862.7	862.7	862.7
175°	873.9	873.9	873.9	873.9	873.9	870.1	865.2	862.7	863.9	866.2	868.0
177.5°	870.0	868.0	870.0	872.1	872.6	869.7	865.9	864.0	864.9	866.7	868.0
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0

TEST NUMBER: P936006

CATALOG NUMBER: SQ4-FA-150U-075D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	1001.4	995.7	995.7	986.4	982.7	979.9	975.2	961.2	957.4	953.7	959.3
5°	1009.8	999.6	992.0	975.2	961.2	955.6	937.8	904.2	881.8	865.0	855.6
7.5°	1011.7	998.6	984.5	958.4	924.8	909.8	855.6	794.0	777.2	762.2	752.9
10°	1009.8	994.8	975.2	936.0	856.6	830.4	776.2	736.1	725.8	723.0	725.8
12.5°	1003.3	989.2	962.1	896.7	785.6	767.8	736.1	712.7	710.9	715.5	740.8
15°	992.0	978.9	947.2	844.4	746.4	733.3	710.9	702.5	712.7	745.4	821.1
17.5°	980.8	965.8	926.6	793.1	716.5	707.1	691.3	708.1	766.0	809.9	835.1
20°	965.8	948.1	903.3	755.7	695.0	686.6	679.1	754.8	798.7	814.5	828.6
22.5°	948.1	929.4	871.5	729.5	672.6	666.0	670.7	780.9	798.7	809.9	822.0
25°	924.8	908.9	834.2	709.0	654.8	647.4	665.1	778.1	788.4	791.2	815.5
27.5°	903.3	882.7	794.9	690.3	633.3	630.5	669.8	766.0	773.4	776.2	802.4
30°	877.1	846.3	751.0	670.7	610.9	610.0	670.7	751.0	749.2	756.6	782.8
32.5°	850.0	792.1	701.5	646.4	589.4	588.5	664.2	728.6	726.7	737.0	756.6
35°	824.8	750.1	634.3	618.4	562.4	563.3	648.3	702.5	703.4	712.7	724.9
37.5°	798.7	713.7	560.5	587.6	536.2	536.2	626.8	678.2	676.3	679.1	695.9
40°	767.8	656.7	495.1	547.4	511.9	509.1	600.7	652.0	645.5	644.6	667.9
42.5°	735.2	594.1	446.5	494.2	483.9	480.2	568.9	620.3	608.1	610.9	640.8
45°	699.7	577.3	409.2	417.6	455.0	452.1	534.3	583.8	575.4	582.9	613.7
47.5°	664.2	543.7	397.0	346.6	424.1	423.2	496.0	548.4	543.7	551.2	583.8
50°	615.6	506.3	396.1	297.0	389.6	393.3	450.3	513.8	513.8	520.3	554.9
52.5°	553.0	460.6	359.7	269.0	349.4	360.6	410.1	483.9	485.8	492.3	523.1
55°	496.0	412.9	333.5	247.5	301.7	326.0	370.9	453.1	456.8	463.4	491.4
57.5°	443.7	343.8	327.8	222.3	257.8	281.1	336.3	423.2	425.1	430.7	457.8
60°	387.7	248.4	300.7	195.2	219.5	237.2	304.5	387.7	394.2	398.0	421.3
62.5°	324.1	180.3	272.7	176.5	200.8	204.5	278.3	354.1	362.5	365.3	379.3
65°	230.7	151.3	231.6	160.6	181.2	182.1	250.3	319.4	326.9	331.6	341.9
67.5°	156.0	123.3	176.5	145.7	166.3	167.2	223.2	279.3	289.5	293.3	299.8
70°	108.3	82.2	130.8	129.8	149.4	151.3	194.3	242.8	252.2	255.0	258.7
72.5°	79.4	66.3	108.3	116.8	131.7	133.6	164.4	201.7	211.1	213.9	215.8
75°	60.7	70.0	87.8	101.8	112.1	113.0	134.5	164.4	170.9	172.8	173.7
77.5°	48.6	65.4	64.4	82.2	91.5	89.7	105.5	127.0	132.6	132.6	132.6
80°	36.4	51.4	48.6	58.8	67.2	65.4	75.7	90.6	92.5	94.3	93.4
82.5°	27.1	32.7	32.7	37.4	44.8	43.0	50.4	58.8	58.8	58.8	60.7
85°	16.8	18.7	14.9	19.6	25.2	24.3	28.0	31.8	32.7	32.7	30.8
87.5°	10.3	8.4	4.7	7.5	11.2	11.2	13.1	14.0	13.1	13.1	13.1
90°	15.1	10.5	5.8	10.5	15.1	16.3	25.7	38.1	44.3	39.3	29.5
92.5°	102.6	62.9	23.3	62.9	102.6	112.5	158.0	218.8	249.3	218.5	156.9
95°	200.9	128.4	55.9	128.4	200.9	219.0	388.9	615.5	728.8	650.3	493.4
97.5°	224.6	160.6	96.7	160.6	224.6	240.6	523.9	901.7	1090.5	1040.9	941.8
100°	244.1	186.1	128.1	186.1	244.1	258.6	573.0	992.2	1201.8	1205.4	1212.7
102.5°	263.2	209.1	155.0	209.1	263.2	276.7	595.6	1020.7	1233.3	1296.4	1422.8
105°	292.1	246.3	200.4	246.3	292.1	303.6	612.2	1023.9	1229.7	1371.3	1654.6
107.5°	332.5	289.7	247.0	289.7	332.5	343.2	615.4	978.4	1159.8	1357.4	1752.5
110°	355.7	317.0	278.4	317.0	355.7	365.3	610.7	937.9	1101.6	1322.5	1764.1

TEST NUMBER: P936006

CATALOG NUMBER: SQ4-FA-150U-075D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	382.9	346.1	309.3	346.1	382.9	392.1	610.9	902.7	1048.6	1274.6	1726.7
115°	423.8	389.9	355.9	389.9	423.8	432.3	616.5	862.3	985.1	1202.8	1638.3
117.5°	463.6	432.8	402.0	432.8	463.6	471.3	628.0	837.0	941.4	1137.9	1530.9
120°	486.7	457.8	428.7	457.8	486.7	494.0	637.3	828.4	923.9	1103.4	1462.6
122.5°	513.5	484.2	455.0	484.2	513.5	520.8	650.7	824.0	910.6	1072.2	1395.6
125°	548.5	521.8	495.2	521.8	548.5	555.2	668.7	820.2	896.0	1033.3	1308.0
127.5°	581.6	554.7	527.8	554.7	581.6	588.3	686.8	818.1	883.8	1001.7	1237.6
130°	603.2	574.2	545.3	574.2	603.2	610.5	700.0	819.4	879.1	984.1	1194.0
132.5°	621.3	592.3	563.3	592.3	621.3	628.6	710.7	820.2	875.0	968.9	1156.9
135°	642.9	616.5	590.1	616.5	642.9	649.5	722.4	819.4	868.0	946.7	1104.1
137.5°	669.8	643.6	617.5	643.6	669.8	676.3	739.8	824.5	866.8	933.3	1066.4
140°	688.5	664.4	640.3	664.4	688.5	694.4	750.6	825.4	862.7	920.2	1035.2
142.5°	702.2	680.0	657.7	680.0	702.2	707.8	759.4	828.3	862.7	913.3	1014.2
145°	723.3	704.0	684.5	704.0	723.3	728.1	771.1	828.4	856.9	898.2	980.8
147.5°	749.1	730.2	711.2	730.2	749.1	753.8	788.2	834.1	856.9	889.4	954.4
150°	762.9	745.9	728.8	745.9	762.9	767.2	797.1	837.0	856.9	884.4	939.2
152.5°	772.7	759.8	746.8	759.8	772.7	776.0	803.0	838.9	856.9	880.4	927.3
155°	792.8	783.3	773.6	783.3	792.8	795.2	815.8	843.2	856.9	875.6	912.9
157.5°	812.0	802.8	793.4	802.8	812.0	814.4	828.6	847.5	856.9	871.4	900.4
160°	821.4	814.1	806.8	814.1	821.4	823.1	834.4	849.5	856.9	869.4	894.2
162.5°	831.1	825.7	820.2	825.7	831.1	832.5	840.6	851.5	856.9	867.4	888.4
165°	844.6	839.7	834.8	839.7	844.6	845.8	849.6	854.5	856.9	864.4	879.5
167.5°	852.8	850.5	848.2	850.5	852.8	853.4	856.5	860.7	862.7	867.7	877.5
170°	861.6	859.3	856.9	859.3	861.6	862.2	862.4	862.6	862.7	867.7	877.5
172.5°	862.6	862.1	861.6	862.1	862.6	862.7	862.7	862.7	862.7	866.7	874.4
175°	868.0	868.0	868.0	868.0	868.0	868.0	866.2	863.9	862.7	865.2	870.1
177.5°	868.0	868.0	868.0	868.0	868.0	868.0	866.7	864.9	864.0	865.9	869.7
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0

TEST NUMBER: P936006

CATALOG NUMBER: SQ4-FA-150U-075D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	952.8	950.0	953.7	943.4	953.7	950.0	952.8	959.3	953.7	957.4	961.2
5°	836.0	831.4	816.4	804.3	816.4	831.4	836.0	855.6	865.0	881.8	904.2
7.5°	747.3	743.6	739.8	732.3	739.8	743.6	747.3	752.9	762.2	777.2	794.0
10°	727.7	728.6	734.2	733.3	734.2	728.6	727.7	725.8	723.0	725.8	736.1
12.5°	778.1	786.5	817.3	815.5	817.3	786.5	778.1	740.8	715.5	710.9	712.7
15°	836.0	838.8	845.4	846.3	845.4	838.8	836.0	821.1	745.4	712.7	702.5
17.5°	841.6	842.6	847.2	847.2	847.2	842.6	841.6	835.1	809.9	766.0	708.1
20°	837.0	838.8	848.2	850.0	848.2	838.8	837.0	828.6	814.5	798.7	754.8
22.5°	835.1	838.8	846.3	845.4	846.3	838.8	835.1	822.0	809.9	798.7	780.9
25°	825.7	825.7	826.7	827.6	826.7	825.7	825.7	815.5	791.2	788.4	778.1
27.5°	806.1	808.0	813.6	812.7	813.6	808.0	806.1	802.4	776.2	773.4	766.0
30°	788.4	786.5	781.9	778.1	781.9	786.5	788.4	782.8	756.6	749.2	751.0
32.5°	758.5	753.8	749.2	746.4	749.2	753.8	758.5	756.6	737.0	726.7	728.6
35°	723.0	723.9	723.0	720.2	723.0	723.9	723.0	724.9	712.7	703.4	702.5
37.5°	697.8	699.7	698.7	695.0	698.7	699.7	697.8	695.9	679.1	676.3	678.2
40°	671.6	672.6	671.6	668.8	671.6	672.6	671.6	667.9	644.6	645.5	652.0
42.5°	646.4	645.5	642.7	640.8	642.7	645.5	646.4	640.8	610.9	608.1	620.3
45°	617.5	618.4	612.8	610.0	612.8	618.4	617.5	613.7	582.9	575.4	583.8
47.5°	588.5	588.5	583.8	581.0	583.8	588.5	588.5	583.8	551.2	543.7	548.4
50°	557.7	556.8	550.2	549.3	550.2	556.8	557.7	554.9	520.3	513.8	513.8
52.5°	522.2	522.2	523.1	525.0	523.1	522.2	522.2	523.1	492.3	485.8	483.9
55°	491.4	492.3	498.8	500.7	498.8	492.3	491.4	491.4	463.4	456.8	453.1
57.5°	459.6	459.6	464.3	464.3	464.3	459.6	459.6	457.8	430.7	425.1	423.2
60°	423.2	425.1	428.8	427.9	428.8	425.1	423.2	421.3	398.0	394.2	387.7
62.5°	384.9	386.8	387.7	385.8	387.7	386.8	384.9	379.3	365.3	362.5	354.1
65°	344.7	346.6	347.5	345.7	347.5	346.6	344.7	341.9	331.6	326.9	319.4
67.5°	303.6	302.6	301.7	305.4	301.7	302.6	303.6	299.8	293.3	289.5	279.3
70°	261.5	261.5	260.6	262.5	260.6	261.5	261.5	258.7	255.0	252.2	242.8
72.5°	216.7	215.8	219.5	216.7	219.5	215.8	216.7	215.8	213.9	211.1	201.7
75°	172.8	174.7	172.8	175.6	172.8	174.7	172.8	173.7	172.8	170.9	164.4
77.5°	131.7	133.6	131.7	131.7	131.7	133.6	131.7	132.6	132.6	132.6	127.0
80°	93.4	92.5	92.5	91.5	92.5	92.5	93.4	93.4	94.3	92.5	90.6
82.5°	59.8	58.8	58.8	60.7	58.8	58.8	59.8	60.7	58.8	58.8	58.8
85°	32.7	33.6	31.8	31.8	31.8	33.6	32.7	30.8	32.7	32.7	31.8
87.5°	12.1	11.2	11.2	11.2	11.2	11.2	12.1	13.1	13.1	13.1	14.0
90°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	29.5	39.3	44.3	38.1
92.5°	110.7	106.3	88.6	71.1	88.6	106.3	110.7	156.9	218.5	249.3	218.8
95°	375.7	362.4	309.1	255.7	309.1	362.4	375.7	493.4	650.3	728.8	615.5
97.5°	867.4	842.0	740.6	639.0	740.6	842.0	867.4	941.8	1040.9	1090.5	901.7
100°	1218.1	1187.9	1067.0	946.0	1067.0	1187.9	1218.1	1212.7	1205.4	1201.8	992.2
102.5°	1517.6	1491.7	1388.1	1284.5	1388.1	1491.7	1517.6	1422.8	1296.4	1233.3	1020.7
105°	1867.1	1853.1	1797.5	1741.8	1797.5	1853.1	1867.1	1654.6	1371.3	1229.7	1023.9
107.5°	2048.8	2052.2	2065.6	2079.1	2065.6	2052.2	2048.8	1752.5	1357.4	1159.8	978.4
110°	2095.4	2109.9	2167.9	2225.9	2167.9	2109.9	2095.4	1764.1	1322.5	1101.6	937.9

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2065.7	2088.0	2177.1	2266.1	2177.1	2088.0	2065.7	1726.7	1274.6	1048.6	902.7
115°	1964.9	1995.9	2119.3	2242.8	2119.3	1995.9	1964.9	1638.3	1202.8	985.1	862.3
117.5°	1825.7	1860.0	1996.9	2133.8	1996.9	1860.0	1825.7	1530.9	1137.9	941.4	837.0
120°	1731.9	1765.2	1898.3	2031.4	1898.3	1765.2	1731.9	1462.6	1103.4	923.9	828.4
122.5°	1638.1	1670.9	1802.2	1933.5	1802.2	1670.9	1638.1	1395.6	1072.2	910.6	824.0
125°	1514.0	1544.3	1665.1	1786.1	1665.1	1544.3	1514.0	1308.0	1033.3	896.0	820.2
127.5°	1414.4	1439.9	1541.9	1643.9	1541.9	1439.9	1414.4	1237.6	1001.7	883.8	818.1
130°	1351.5	1375.0	1469.3	1563.5	1469.3	1375.0	1351.5	1194.0	984.1	879.1	819.4
132.5°	1297.9	1319.0	1403.3	1487.8	1403.3	1319.0	1297.9	1156.9	968.9	875.0	820.2
135°	1222.1	1240.4	1313.1	1385.9	1313.1	1240.4	1222.1	1104.1	946.7	868.0	819.4
137.5°	1166.3	1181.1	1240.7	1300.2	1240.7	1181.1	1166.3	1066.4	933.3	866.8	824.5
140°	1121.4	1135.3	1190.9	1246.6	1190.9	1135.3	1121.4	1035.2	920.2	862.7	825.4
142.5°	1090.0	1101.9	1149.8	1197.7	1149.8	1101.9	1090.0	1014.2	913.3	862.7	828.3
145°	1042.7	1051.8	1088.1	1124.3	1088.1	1051.8	1042.7	980.8	898.2	856.9	828.4
147.5°	1003.1	1010.6	1040.7	1070.7	1040.7	1010.6	1003.1	954.4	889.4	856.9	834.1
150°	980.4	986.5	1010.9	1035.2	1010.9	986.5	980.4	939.2	884.4	856.9	837.0
152.5°	962.4	967.0	985.4	1003.7	985.4	967.0	962.4	927.3	880.4	856.9	838.9
155°	940.8	943.9	956.0	968.2	956.0	943.9	940.8	912.9	875.6	856.9	843.2
157.5°	922.1	924.3	932.8	941.4	932.8	924.3	922.1	900.4	871.4	856.9	847.5
160°	912.8	914.0	919.0	923.9	919.0	914.0	912.8	894.2	869.4	856.9	849.5
162.5°	904.1	905.2	909.9	914.6	909.9	905.2	904.1	888.4	867.4	856.9	851.5
165°	890.7	891.9	896.8	901.8	896.8	891.9	890.7	879.5	864.4	856.9	854.5
167.5°	884.9	885.4	887.5	889.5	887.5	885.4	884.9	877.5	867.7	862.7	860.7
170°	884.9	884.9	884.9	884.9	884.9	884.9	884.9	877.5	867.7	862.7	862.6
172.5°	880.2	879.7	878.0	876.2	878.0	879.7	880.2	874.4	866.7	862.7	862.7
175°	873.9	873.9	873.9	873.9	873.9	873.9	873.9	870.1	865.2	862.7	863.9
177.5°	872.6	872.1	870.0	868.0	870.0	872.1	872.6	869.7	865.9	864.0	864.9
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	987.3	987.3	987.3	987.3	987.3
2.5°	975.2	979.9	982.7	986.4	995.7
5°	937.8	955.6	961.2	975.2	992.0
7.5°	855.6	909.8	924.8	958.4	984.5
10°	776.2	830.4	856.6	936.0	975.2
12.5°	736.1	767.8	785.6	896.7	962.1
15°	710.9	733.3	746.4	844.4	947.2
17.5°	691.3	707.1	716.5	793.1	926.6
20°	679.1	686.6	695.0	755.7	903.3
22.5°	670.7	666.0	672.6	729.5	871.5
25°	665.1	647.4	654.8	709.0	834.2
27.5°	669.8	630.5	633.3	690.3	794.9
30°	670.7	610.0	610.9	670.7	751.0
32.5°	664.2	588.5	589.4	646.4	701.5
35°	648.3	563.3	562.4	618.4	634.3
37.5°	626.8	536.2	536.2	587.6	560.5
40°	600.7	509.1	511.9	547.4	495.1
42.5°	568.9	480.2	483.9	494.2	446.5
45°	534.3	452.1	455.0	417.6	409.2
47.5°	496.0	423.2	424.1	346.6	397.0
50°	450.3	393.3	389.6	297.0	396.1
52.5°	410.1	360.6	349.4	269.0	359.7
55°	370.9	326.0	301.7	247.5	333.5
57.5°	336.3	281.1	257.8	222.3	327.8
60°	304.5	237.2	219.5	195.2	300.7
62.5°	278.3	204.5	200.8	176.5	272.7
65°	250.3	182.1	181.2	160.6	231.6
67.5°	223.2	167.2	166.3	145.7	176.5
70°	194.3	151.3	149.4	129.8	130.8
72.5°	164.4	133.6	131.7	116.8	108.3
75°	134.5	113.0	112.1	101.8	87.8
77.5°	105.5	89.7	91.5	82.2	64.4
80°	75.7	65.4	67.2	58.8	48.6
82.5°	50.4	43.0	44.8	37.4	32.7
85°	28.0	24.3	25.2	19.6	14.9
87.5°	13.1	11.2	11.2	7.5	4.7
90°	25.7	16.3	15.1	10.5	5.8
92.5°	158.0	112.5	102.6	62.9	23.3
95°	388.9	219.0	200.9	128.4	55.9
97.5°	523.9	240.6	224.6	160.6	96.7
100°	573.0	258.6	244.1	186.1	128.1
102.5°	595.6	276.7	263.2	209.1	155.0
105°	612.2	303.6	292.1	246.3	200.4
107.5°	615.4	343.2	332.5	289.7	247.0
110°	610.7	365.3	355.7	317.0	278.4



TEST NUMBER: P936006

CATALOG NUMBER: SQ4-FA-150U-075D-B50-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	610.9	392.1	382.9	346.1	309.3
115°	616.5	432.3	423.8	389.9	355.9
117.5°	628.0	471.3	463.6	432.8	402.0
120°	637.3	494.0	486.7	457.8	428.7
122.5°	650.7	520.8	513.5	484.2	455.0
125°	668.7	555.2	548.5	521.8	495.2
127.5°	686.8	588.3	581.6	554.7	527.8
130°	700.0	610.5	603.2	574.2	545.3
132.5°	710.7	628.6	621.3	592.3	563.3
135°	722.4	649.5	642.9	616.5	590.1
137.5°	739.8	676.3	669.8	643.6	617.5
140°	750.6	694.4	688.5	664.4	640.3
142.5°	759.4	707.8	702.2	680.0	657.7
145°	771.1	728.1	723.3	704.0	684.5
147.5°	788.2	753.8	749.1	730.2	711.2
150°	797.1	767.2	762.9	745.9	728.8
152.5°	803.0	776.0	772.7	759.8	746.8
155°	815.8	795.2	792.8	783.3	773.6
157.5°	828.6	814.4	812.0	802.8	793.4
160°	834.4	823.1	821.4	814.1	806.8
162.5°	840.6	832.5	831.1	825.7	820.2
165°	849.6	845.8	844.6	839.7	834.8
167.5°	856.5	853.4	852.8	850.5	848.2
170°	862.4	862.2	861.6	859.3	856.9
172.5°	862.7	862.7	862.6	862.1	861.6
175°	866.2	868.0	868.0	868.0	868.0
177.5°	866.7	868.0	868.0	868.0	868.0
180°	868.0	868.0	868.0	868.0	868.0

(END OF REPORT)