

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: P934508

Luminaire Tested: SQ4-FA-050U-100D-B50-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934508
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-B50-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

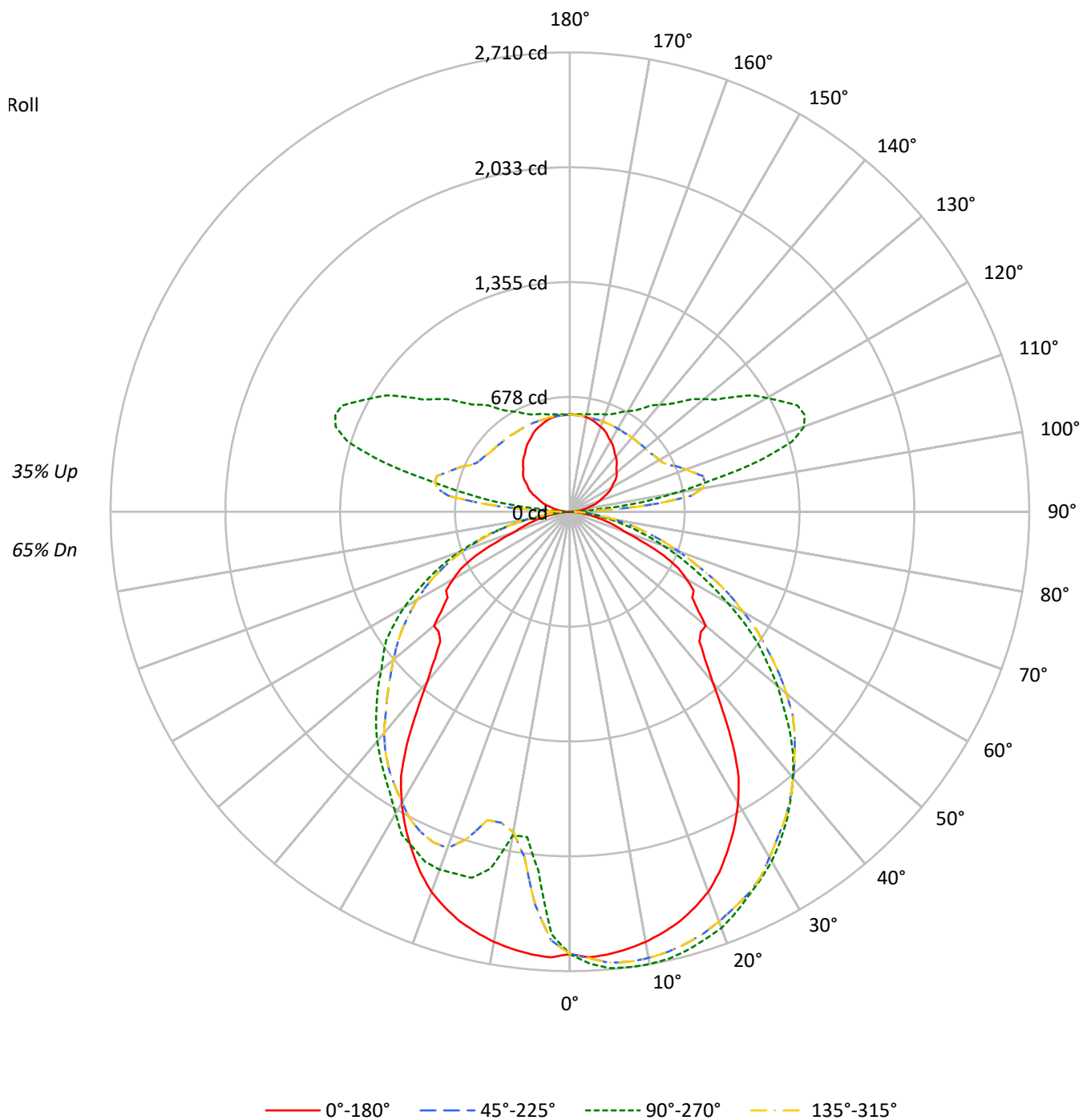
Lumens per Lamp: N/A
Luminaire Lumens: 10485.1 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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					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°	12104	12104	12104	12104
5°	12194	12218	12194	9607
10°	12112	12035	12112	8604
15°	11981	11775	11981	9832
20°	11731	11466	11731	9853
25°	11217	11015	11217	9644
30°	10554	10641	10554	9186
35°	9409	10168	9409	8681
40°	7840	9611	7840	8301
45°	7005	8959	7005	7863
50°	7443	8182	7443	7424
55°	7002	7344	7002	7170
60°	7218	6237	7218	6567
65°	6544	5156	6544	5763
70°	4531	4109	4531	4831
75°	3973	3037	3973	3637
80°	3201	2008	3201	2187
85°	1840	1063	1840	904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 10737 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	2.2
10°-20°	668.6	6.4
20°-30°	1033.5	9.9
30°-40°	1233.8	11.8
40°-50°	1241.1	11.8
50°-60°	1079.9	10.3
60°-70°	765.6	7.3
70°-80°	405.1	3.9
80°-90°	103.1	1.0
90°-100°	279.6	2.7
100°-110°	735.2	7.0
110°-120°	762.3	7.3
120°-130°	611.4	5.8
130°-140°	479.8	4.6
140°-150°	368.3	3.5
150°-160°	265.2	2.5
160°-170°	162.3	1.5
170°-180°	54.8	0.5
0°-30°	1937.6	18.5
0°-40°	3171.5	30.2
0°-60°	5492.4	52.4
0°-90°	6766.2	64.5
90°-120°	1777.1	16.9
90°-150°	3236.6	30.9
90°-180°	3719.0	35.5
0°-180°	10485.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2609	2609	2609	2609	2609	
5°	2621	2702	2621	2125	2621	249
15°	2503	2678	2503	2236	2503	704
25°	2204	2498	2204	2187	2204	1012
35°	1676	2229	1676	1903	1676	1037
45°	1081	1836	1081	1612	1081	866
55°	881	1355	881	1323	881	810
65°	612	817	612	913	612	585
75°	232	388	232	464	232	244
85°	40	99	40	84	40	53
90°	4	15	4	15	4	5
95°	37	169	37	169	37	41
105°	132	1151	132	1151	132	140
115°	235	1482	235	1482	235	232
125°	327	1180	327	1180	327	291
135°	390	916	390	916	390	302
145°	452	743	452	743	452	283
155°	511	640	511	640	511	235
165°	552	596	552	596	552	156
175°	574	578	574	578	574	54
180°	574	574	574	574	574	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2631.0	2631.0	2645.7	2650.7	2650.7	2643.3	2635.9	2643.3	2665.5	2672.9	2670.5
5°	2621.1	2640.8	2668.0	2672.9	2677.9	2675.3	2670.5	2675.3	2700.1	2705.1	2707.5
7.5°	2601.4	2638.4	2672.9	2680.3	2687.8	2680.3	2677.9	2682.8	2707.5	2712.4	2712.4
10°	2576.6	2628.5	2668.0	2672.9	2680.3	2672.9	2672.9	2682.8	2707.5	2712.4	2714.9
12.5°	2542.1	2613.7	2650.7	2655.6	2665.5	2663.0	2660.6	2670.5	2695.2	2700.1	2700.1
15°	2502.7	2586.5	2621.1	2626.0	2643.3	2638.4	2638.4	2648.3	2675.3	2682.8	2680.3
17.5°	2448.3	2552.0	2591.5	2598.9	2611.2	2608.8	2611.2	2621.1	2645.7	2650.7	2653.2
20°	2386.7	2505.1	2552.0	2559.3	2571.8	2571.8	2571.8	2584.1	2608.8	2618.7	2618.7
22.5°	2302.7	2455.8	2505.1	2510.0	2524.8	2524.8	2529.7	2547.0	2569.2	2571.8	2571.8
25°	2204.0	2401.4	2443.3	2458.2	2473.0	2480.4	2487.8	2497.7	2505.1	2502.7	2505.1
27.5°	2100.3	2332.3	2386.7	2396.5	2416.3	2423.6	2433.5	2436.0	2438.5	2445.9	2440.9
30°	1984.3	2236.1	2317.5	2327.4	2359.5	2364.4	2354.5	2359.5	2371.8	2376.7	2381.7
32.5°	1853.5	2092.9	2246.0	2268.1	2297.7	2283.0	2280.5	2287.9	2307.6	2307.6	2312.6
35°	1675.8	1981.9	2179.3	2199.0	2221.2	2204.0	2213.9	2216.3	2228.7	2236.1	2233.6
37.5°	1480.9	1885.6	2110.2	2125.0	2142.3	2120.1	2134.8	2142.3	2152.1	2147.3	2147.3
40°	1308.1	1735.1	2028.7	2038.6	2053.4	2036.1	2051.0	2055.9	2060.9	2055.9	2053.4
42.5°	1179.7	1569.7	1942.3	1954.7	1944.9	1957.2	1962.1	1972.0	1964.6	1954.7	1954.7
45°	1081.0	1525.2	1848.6	1863.4	1848.6	1868.4	1875.8	1875.8	1853.5	1848.6	1846.1
47.5°	1049.0	1436.4	1754.8	1754.8	1747.4	1772.1	1784.4	1767.1	1744.9	1737.5	1737.5
50°	1046.5	1337.7	1626.5	1616.6	1651.1	1680.7	1668.4	1651.1	1633.8	1606.7	1606.7
52.5°	950.3	1216.7	1461.1	1498.1	1552.4	1569.7	1550.0	1532.7	1503.1	1490.8	1480.9
55°	881.1	1090.9	1310.6	1384.6	1441.3	1463.6	1426.5	1409.3	1364.9	1357.5	1352.5
57.5°	866.3	908.2	1172.4	1266.1	1335.2	1332.7	1310.6	1278.5	1241.5	1234.0	1231.6
60°	794.7	656.5	1024.2	1135.3	1206.9	1199.4	1179.7	1150.1	1115.6	1110.6	1105.7
62.5°	720.7	476.3	856.4	982.3	1083.4	1081.0	1063.7	1019.3	994.6	982.3	972.4
65°	612.1	399.8	609.6	817.0	962.6	967.4	930.5	898.4	871.2	856.4	854.0
67.5°	466.4	325.8	412.2	681.2	846.6	841.6	794.7	779.9	745.3	738.0	723.1
70°	345.5	217.2	286.3	552.8	733.0	720.7	683.7	666.4	634.3	617.0	607.1
72.5°	286.3	175.2	209.8	429.5	617.0	602.2	570.1	550.4	523.2	508.4	498.6
75°	232.0	185.1	160.5	318.4	501.0	491.2	461.5	441.8	419.6	399.8	402.3
77.5°	170.3	172.8	128.3	234.4	397.3	382.6	365.3	340.6	330.7	311.0	311.0
80°	128.3	135.7	96.3	160.5	286.3	286.3	271.5	254.2	237.0	227.1	227.1
82.5°	86.4	86.4	71.5	101.2	195.0	187.5	177.7	172.8	162.9	157.9	157.9
85°	39.5	49.3	44.5	61.7	106.1	111.1	111.1	106.1	103.7	98.7	101.2
87.5°	12.3	22.2	27.2	34.6	54.3	56.8	59.2	59.2	59.2	61.7	61.7
90°	3.8	6.9	10.0	10.7	16.9	25.1	29.2	26.0	19.5	14.7	14.7
92.5°	15.4	41.6	67.8	74.3	104.5	144.7	164.8	144.4	103.7	73.1	70.2
95°	37.0	84.9	132.8	144.8	257.0	406.8	481.7	429.8	326.2	248.4	239.6
97.5°	63.9	106.1	148.4	159.0	346.2	595.9	720.8	688.0	622.4	573.3	556.5
100°	84.7	123.0	161.3	170.9	378.7	655.8	794.3	796.7	801.5	805.0	785.0
102.5°	102.5	138.2	173.9	182.9	393.6	674.6	815.1	856.9	940.4	1002.9	985.8
105°	132.4	162.7	193.1	200.6	404.7	676.8	812.8	906.4	1093.6	1234.0	1224.8
107.5°	163.3	191.5	219.7	226.8	406.7	646.6	766.5	897.1	1158.3	1354.1	1356.4
110°	184.0	209.5	235.1	241.4	403.7	619.9	728.1	874.0	1165.9	1384.8	1394.5

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	204.5	228.7	253.0	259.1	403.8	596.6	693.0	842.4	1141.2	1365.2	1380.0
115°	235.3	257.7	280.1	285.7	407.5	569.9	651.1	795.0	1082.8	1298.6	1319.0
117.5°	265.6	286.0	306.4	311.5	415.1	553.1	622.1	752.1	1011.8	1206.6	1229.2
120°	283.4	302.5	321.8	326.5	421.2	547.5	610.6	729.3	966.6	1144.6	1166.6
122.5°	300.7	320.0	339.3	344.2	430.0	544.5	601.8	708.6	922.4	1082.7	1104.4
125°	327.3	344.8	362.5	366.9	442.0	542.1	592.2	682.9	864.5	1000.7	1020.7
127.5°	348.8	366.6	384.3	388.8	453.9	540.7	584.0	662.0	817.9	934.8	951.7
130°	360.3	379.5	398.7	403.5	462.6	541.5	580.9	650.3	789.1	893.2	908.8
132.5°	372.3	391.4	410.7	415.4	469.7	542.1	578.3	640.4	764.7	857.8	871.7
135°	390.0	407.5	424.9	429.3	477.4	541.5	573.7	625.7	729.7	807.7	819.8
137.5°	408.2	425.4	442.7	447.0	488.9	544.9	572.9	616.9	704.9	770.8	780.6
140°	423.1	439.1	455.0	459.0	496.0	545.5	570.2	608.2	684.2	741.1	750.3
142.5°	434.7	449.3	464.1	467.7	501.9	547.4	570.2	603.6	670.3	720.4	728.3
145°	452.4	465.2	478.1	481.3	509.7	547.5	566.4	593.7	648.3	689.2	695.2
147.5°	470.1	482.6	495.1	498.2	520.9	551.2	566.4	587.9	630.7	663.0	667.9
150°	481.7	493.0	504.3	507.1	526.9	553.2	566.4	584.5	620.8	648.0	652.0
152.5°	493.6	502.2	510.7	512.9	530.7	554.5	566.4	581.9	612.8	636.1	639.1
155°	511.3	517.6	524.0	525.6	539.2	557.3	566.4	578.7	603.3	621.8	623.8
157.5°	524.3	530.5	536.7	538.3	547.6	560.1	566.4	575.9	595.1	609.4	610.8
160°	533.2	538.1	542.8	544.1	551.5	561.4	566.4	574.6	590.9	603.3	604.1
162.5°	542.1	545.7	549.3	550.2	555.6	562.8	566.4	573.3	587.2	597.6	598.3
165°	551.7	555.0	558.2	559.0	561.4	564.7	566.4	571.3	581.2	588.7	589.5
167.5°	560.6	562.1	563.7	564.0	566.1	568.8	570.2	573.5	580.0	584.9	585.2
170°	566.4	567.9	569.5	569.8	569.9	570.1	570.2	573.5	580.0	584.9	584.9
172.5°	569.5	569.8	570.1	570.2	570.2	570.2	570.2	572.8	578.0	581.8	581.5
175°	573.7	573.7	573.7	573.7	572.5	571.0	570.2	571.8	575.1	577.5	577.5
177.5°	573.7	573.7	573.7	573.7	572.7	571.5	571.0	572.3	574.8	576.7	576.4
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2675.3	2668.0	2675.3	2670.5	2672.9	2665.5	2643.3	2635.9	2643.3	2650.7	2650.7
5°	2707.5	2702.5	2707.5	2707.5	2705.1	2700.1	2675.3	2670.5	2675.3	2677.9	2672.9
7.5°	2717.4	2709.9	2717.4	2712.4	2712.4	2707.5	2682.8	2677.9	2680.3	2687.8	2680.3
10°	2717.4	2709.9	2717.4	2714.9	2712.4	2707.5	2682.8	2672.9	2672.9	2680.3	2672.9
12.5°	2705.1	2700.1	2705.1	2700.1	2700.1	2695.2	2670.5	2660.6	2663.0	2665.5	2655.6
15°	2685.2	2677.9	2685.2	2680.3	2682.8	2675.3	2648.3	2638.4	2638.4	2643.3	2626.0
17.5°	2655.6	2645.7	2655.6	2653.2	2650.7	2645.7	2621.1	2611.2	2608.8	2611.2	2598.9
20°	2621.1	2613.7	2621.1	2618.7	2618.7	2608.8	2584.1	2571.8	2571.8	2571.8	2559.3
22.5°	2566.8	2559.3	2566.8	2571.8	2571.8	2569.2	2547.0	2529.7	2524.8	2524.8	2510.0
25°	2505.1	2497.7	2505.1	2505.1	2502.7	2505.1	2497.7	2487.8	2480.4	2473.0	2458.2
27.5°	2445.9	2440.9	2445.9	2440.9	2445.9	2438.5	2436.0	2433.5	2423.6	2416.3	2396.5
30°	2386.7	2381.7	2386.7	2381.7	2376.7	2371.8	2359.5	2354.5	2364.4	2359.5	2327.4
32.5°	2312.6	2307.6	2312.6	2312.6	2307.6	2307.6	2287.9	2280.5	2283.0	2297.7	2268.1
35°	2236.1	2228.7	2236.1	2233.6	2236.1	2228.7	2216.3	2213.9	2204.0	2221.2	2199.0
37.5°	2147.3	2139.8	2147.3	2147.3	2147.3	2152.1	2142.3	2134.8	2120.1	2142.3	2125.0
40°	2055.9	2046.0	2055.9	2053.4	2055.9	2060.9	2055.9	2051.0	2036.1	2053.4	2038.6
42.5°	1952.2	1949.8	1952.2	1954.7	1954.7	1964.6	1972.0	1962.1	1957.2	1944.9	1954.7
45°	1841.2	1836.2	1841.2	1846.1	1848.6	1853.5	1875.8	1875.8	1868.4	1848.6	1863.4
47.5°	1722.7	1710.3	1722.7	1737.5	1737.5	1744.9	1767.1	1784.4	1772.1	1747.4	1754.8
50°	1596.9	1599.3	1596.9	1606.7	1606.7	1633.8	1651.1	1668.4	1680.7	1651.1	1616.6
52.5°	1473.5	1471.0	1473.5	1480.9	1490.8	1503.1	1532.7	1550.0	1569.7	1552.4	1498.1
55°	1350.0	1355.0	1350.0	1352.5	1357.5	1364.9	1409.3	1426.5	1463.6	1441.3	1384.6
57.5°	1226.6	1219.2	1226.6	1231.6	1234.0	1241.5	1278.5	1310.6	1332.7	1335.2	1266.1
60°	1083.4	1073.6	1083.4	1105.7	1110.6	1115.6	1150.1	1179.7	1199.4	1206.9	1135.3
62.5°	957.6	940.4	957.6	972.4	982.3	994.6	1019.3	1063.7	1081.0	1083.4	982.3
65°	824.3	817.0	824.3	854.0	856.4	871.2	898.4	930.5	967.4	962.6	817.0
67.5°	703.4	703.4	703.4	723.1	738.0	745.3	779.9	794.7	841.6	846.6	681.2
70°	592.3	589.9	592.3	607.1	617.0	634.3	666.4	683.7	720.7	733.0	552.8
72.5°	486.2	483.7	486.2	498.6	508.4	523.2	550.4	570.1	602.2	617.0	429.5
75°	392.5	387.5	392.5	402.3	399.8	419.6	441.8	461.5	491.2	501.0	318.4
77.5°	301.1	301.1	301.1	311.0	311.0	330.7	340.6	365.3	382.6	397.3	234.4
80°	224.6	222.1	224.6	227.1	227.1	237.0	254.2	271.5	286.3	286.3	160.5
82.5°	157.9	153.0	157.9	157.9	157.9	162.9	172.8	177.7	187.5	195.0	101.2
85°	98.7	98.7	98.7	101.2	98.7	103.7	106.1	111.1	111.1	106.1	61.7
87.5°	64.2	61.7	64.2	61.7	61.7	59.2	59.2	59.2	56.8	54.3	34.6
90°	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.2	25.1	16.9	10.7
92.5°	58.6	47.0	58.6	70.2	73.1	103.7	144.4	164.8	144.7	104.5	74.3
95°	204.3	169.1	204.3	239.6	248.4	326.2	429.8	481.7	406.8	257.0	144.8
97.5°	489.4	422.4	489.4	556.5	573.3	622.4	688.0	720.8	595.9	346.2	159.0
100°	705.2	625.2	705.2	785.0	805.0	801.5	796.7	794.3	655.8	378.7	170.9
102.5°	917.4	848.9	917.4	985.8	1002.9	940.4	856.9	815.1	674.6	393.6	182.9
105°	1188.0	1151.2	1188.0	1224.8	1234.0	1093.6	906.4	812.8	676.8	404.7	200.6
107.5°	1365.2	1374.1	1365.2	1356.4	1354.1	1158.3	897.1	766.5	646.6	406.7	226.8
110°	1432.8	1471.1	1432.8	1394.5	1384.8	1165.9	874.0	728.1	619.9	403.7	241.4

TEST NUMBER: P934508

CATALOG NUMBER: SQ4-FA-050U-100D-B50-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1438.8	1497.7	1438.8	1380.0	1365.2	1141.2	842.4	693.0	596.6	403.8	259.1
115°	1400.6	1482.3	1400.6	1319.0	1298.6	1082.8	795.0	651.1	569.9	407.5	285.7
117.5°	1319.8	1410.3	1319.8	1229.2	1206.6	1011.8	752.1	622.1	553.1	415.1	311.5
120°	1254.5	1342.5	1254.5	1166.6	1144.6	966.6	729.3	610.6	547.5	421.2	326.5
122.5°	1191.1	1277.9	1191.1	1104.4	1082.7	922.4	708.6	601.8	544.5	430.0	344.2
125°	1100.5	1180.5	1100.5	1020.7	1000.7	864.5	682.9	592.2	542.1	442.0	366.9
127.5°	1019.1	1086.5	1019.1	951.7	934.8	817.9	662.0	584.0	540.7	453.9	388.8
130°	971.1	1033.4	971.1	908.8	893.2	789.1	650.3	580.9	541.5	462.6	403.5
132.5°	927.6	983.3	927.6	871.7	857.8	764.7	640.4	578.3	542.1	469.7	415.4
135°	867.9	916.0	867.9	819.8	807.7	729.7	625.7	573.7	541.5	477.4	429.3
137.5°	820.1	859.4	820.1	780.6	770.8	704.9	616.9	572.9	544.9	488.9	447.0
140°	787.1	823.9	787.1	750.3	741.1	684.2	608.2	570.2	545.5	496.0	459.0
142.5°	759.9	791.6	759.9	728.3	720.4	670.3	603.6	570.2	547.4	501.9	467.7
145°	719.2	743.1	719.2	695.2	689.2	648.3	593.7	566.4	547.5	509.7	481.3
147.5°	687.8	707.7	687.8	667.9	663.0	630.7	587.9	566.4	551.2	520.9	498.2
150°	668.1	684.2	668.1	652.0	648.0	620.8	584.5	566.4	553.2	526.9	507.1
152.5°	651.3	663.4	651.3	639.1	636.1	612.8	581.9	566.4	554.5	530.7	512.9
155°	631.9	639.9	631.9	623.8	621.8	603.3	578.7	566.4	557.3	539.2	525.6
157.5°	616.5	622.1	616.5	610.8	609.4	595.1	575.9	566.4	560.1	547.6	538.3
160°	607.4	610.6	607.4	604.1	603.3	590.9	574.6	566.4	561.4	551.5	544.1
162.5°	601.4	604.5	601.4	598.3	597.6	587.2	573.3	566.4	562.8	555.6	550.2
165°	592.7	596.0	592.7	589.5	588.7	581.2	571.3	566.4	564.7	561.4	559.0
167.5°	586.6	588.0	586.6	585.2	584.9	580.0	573.5	570.2	568.8	566.1	564.0
170°	584.9	584.9	584.9	584.9	584.9	580.0	573.5	570.2	570.1	569.9	569.8
172.5°	580.3	579.1	580.3	581.5	581.8	578.0	572.8	570.2	570.2	570.2	570.2
175°	577.5	577.5	577.5	577.5	577.5	575.1	571.8	570.2	571.0	572.5	573.7
177.5°	575.1	573.7	575.1	576.4	576.7	574.8	572.3	571.0	571.5	572.7	573.7
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7

TEST NUMBER: P934508

CATALOG NUMBER: SQ4-FA-050U-100D-B50-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2645.7	2631.0	2631.0	2606.3	2596.4	2589.0	2576.6	2539.6	2529.7	2519.9	2534.7
5°	2668.0	2640.8	2621.1	2576.6	2539.6	2524.8	2477.9	2389.1	2329.9	2285.4	2260.7
7.5°	2672.9	2638.4	2601.4	2532.3	2443.3	2403.9	2260.7	2097.9	2053.4	2014.0	1989.2
10°	2668.0	2628.5	2576.6	2473.0	2263.2	2194.2	2051.0	1944.9	1917.7	1910.3	1917.7
12.5°	2650.7	2613.7	2542.1	2369.4	2075.6	2028.7	1944.9	1883.1	1878.2	1890.5	1957.2
15°	2621.1	2586.5	2502.7	2231.1	1972.0	1937.4	1878.2	1856.0	1883.1	1969.5	2169.4
17.5°	2591.5	2552.0	2448.3	2095.4	1893.0	1868.4	1826.3	1870.8	2023.8	2139.8	2206.5
20°	2552.0	2505.1	2386.7	1996.7	1836.2	1814.0	1794.3	1994.2	2110.2	2152.1	2189.2
22.5°	2505.1	2455.8	2302.7	1927.6	1777.0	1759.7	1772.1	2063.3	2110.2	2139.8	2171.9
25°	2443.3	2401.4	2204.0	1873.2	1730.1	1710.3	1757.2	2055.9	2083.0	2090.5	2154.6
27.5°	2386.7	2332.3	2100.3	1823.9	1673.4	1666.0	1769.6	2023.8	2043.6	2051.0	2120.1
30°	2317.5	2236.1	1984.3	1772.1	1614.1	1611.6	1772.1	1984.3	1979.4	1999.1	2068.2
32.5°	2246.0	2092.9	1853.5	1707.9	1557.4	1554.9	1754.8	1925.1	1920.1	1947.3	1999.1
35°	2179.3	1981.9	1675.8	1633.8	1485.8	1488.2	1712.9	1856.0	1858.5	1883.1	1915.3
37.5°	2110.2	1885.6	1480.9	1552.4	1416.7	1416.7	1656.1	1791.8	1786.9	1794.3	1838.7
40°	2028.7	1735.1	1308.1	1446.3	1352.5	1345.1	1587.0	1722.7	1705.4	1703.0	1764.7
42.5°	1942.3	1569.7	1179.7	1305.6	1278.5	1268.6	1503.1	1638.8	1606.7	1614.1	1693.1
45°	1848.6	1525.2	1081.0	1103.2	1202.0	1194.6	1411.7	1542.5	1520.4	1540.1	1621.5
47.5°	1754.8	1436.4	1049.0	915.7	1120.5	1118.0	1310.6	1448.7	1436.4	1456.2	1542.5
50°	1626.5	1337.7	1046.5	784.8	1029.2	1039.1	1189.6	1357.5	1357.5	1374.8	1466.0
52.5°	1461.1	1216.7	950.3	710.8	923.1	952.7	1083.4	1278.5	1283.4	1300.7	1382.1
55°	1310.6	1090.9	881.1	654.1	797.2	861.3	979.9	1197.0	1206.9	1224.2	1298.2
57.5°	1172.4	908.2	866.3	587.4	681.2	742.9	888.5	1118.0	1122.9	1137.8	1209.3
60°	1024.2	656.5	794.7	515.8	580.0	626.9	804.5	1024.2	1041.5	1051.4	1113.1
62.5°	856.4	476.3	720.7	466.4	530.6	540.5	735.5	935.4	957.6	965.0	1002.0
65°	609.6	399.8	612.1	424.5	478.8	481.3	661.5	844.1	863.9	876.2	903.3
67.5°	412.2	325.8	466.4	385.0	439.4	441.8	589.9	738.0	765.1	774.9	792.2
70°	286.3	217.2	345.5	343.1	394.9	399.8	513.3	641.7	666.4	673.8	683.7
72.5°	209.8	175.2	286.3	308.5	348.0	353.0	434.4	533.1	557.8	565.2	570.1
75°	160.5	185.1	232.0	269.0	296.2	298.6	355.4	434.4	451.7	456.6	459.1
77.5°	128.3	172.8	170.3	217.2	241.9	237.0	278.9	335.7	350.4	350.4	350.4
80°	96.3	135.7	128.3	155.5	177.7	172.8	199.9	239.4	244.3	249.3	246.8
82.5°	71.5	86.4	86.4	98.7	118.4	113.6	133.3	155.5	155.5	155.5	160.5
85°	44.5	49.3	39.5	51.8	66.6	64.2	74.1	83.9	86.4	86.4	81.4
87.5°	27.2	22.2	12.3	19.7	29.6	29.6	34.6	37.0	34.6	34.6	34.6
90°	10.0	6.9	3.8	6.9	10.0	10.7	16.9	25.1	29.2	26.0	19.5
92.5°	67.8	41.6	15.4	41.6	67.8	74.3	104.5	144.7	164.8	144.4	103.7
95°	132.8	84.9	37.0	84.9	132.8	144.8	257.0	406.8	481.7	429.8	326.2
97.5°	148.4	106.1	63.9	106.1	148.4	159.0	346.2	595.9	720.8	688.0	622.4
100°	161.3	123.0	84.7	123.0	161.3	170.9	378.7	655.8	794.3	796.7	801.5
102.5°	173.9	138.2	102.5	138.2	173.9	182.9	393.6	674.6	815.1	856.9	940.4
105°	193.1	162.7	132.4	162.7	193.1	200.6	404.7	676.8	812.8	906.4	1093.6
107.5°	219.7	191.5	163.3	191.5	219.7	226.8	406.7	646.6	766.5	897.1	1158.3
110°	235.1	209.5	184.0	209.5	235.1	241.4	403.7	619.9	728.1	874.0	1165.9

TEST NUMBER: P934508

CATALOG NUMBER: SQ4-FA-050U-100D-B50-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	253.0	228.7	204.5	228.7	253.0	259.1	403.8	596.6	693.0	842.4	1141.2
115°	280.1	257.7	235.3	257.7	280.1	285.7	407.5	569.9	651.1	795.0	1082.8
117.5°	306.4	286.0	265.6	286.0	306.4	311.5	415.1	553.1	622.1	752.1	1011.8
120°	321.8	302.5	283.4	302.5	321.8	326.5	421.2	547.5	610.6	729.3	966.6
122.5°	339.3	320.0	300.7	320.0	339.3	344.2	430.0	544.5	601.8	708.6	922.4
125°	362.5	344.8	327.3	344.8	362.5	366.9	442.0	542.1	592.2	682.9	864.5
127.5°	384.3	366.6	348.8	366.6	384.3	388.8	453.9	540.7	584.0	662.0	817.9
130°	398.7	379.5	360.3	379.5	398.7	403.5	462.6	541.5	580.9	650.3	789.1
132.5°	410.7	391.4	372.3	391.4	410.7	415.4	469.7	542.1	578.3	640.4	764.7
135°	424.9	407.5	390.0	407.5	424.9	429.3	477.4	541.5	573.7	625.7	729.7
137.5°	442.7	425.4	408.2	425.4	442.7	447.0	488.9	544.9	572.9	616.9	704.9
140°	455.0	439.1	423.1	439.1	455.0	459.0	496.0	545.5	570.2	608.2	684.2
142.5°	464.1	449.3	434.7	449.3	464.1	467.7	501.9	547.4	570.2	603.6	670.3
145°	478.1	465.2	452.4	465.2	478.1	481.3	509.7	547.5	566.4	593.7	648.3
147.5°	495.1	482.6	470.1	482.6	495.1	498.2	520.9	551.2	566.4	587.9	630.7
150°	504.3	493.0	481.7	493.0	504.3	507.1	526.9	553.2	566.4	584.5	620.8
152.5°	510.7	502.2	493.6	502.2	510.7	512.9	530.7	554.5	566.4	581.9	612.8
155°	524.0	517.6	511.3	517.6	524.0	525.6	539.2	557.3	566.4	578.7	603.3
157.5°	536.7	530.5	524.3	530.5	536.7	538.3	547.6	560.1	566.4	575.9	595.1
160°	542.8	538.1	533.2	538.1	542.8	544.1	551.5	561.4	566.4	574.6	590.9
162.5°	549.3	545.7	542.1	545.7	549.3	550.2	555.6	562.8	566.4	573.3	587.2
165°	558.2	555.0	551.7	555.0	558.2	559.0	561.4	564.7	566.4	571.3	581.2
167.5°	563.7	562.1	560.6	562.1	563.7	564.0	566.1	568.8	570.2	573.5	580.0
170°	569.5	567.9	566.4	567.9	569.5	569.8	569.9	570.1	570.2	573.5	580.0
172.5°	570.1	569.8	569.5	569.8	570.1	570.2	570.2	570.2	570.2	572.8	578.0
175°	573.7	573.7	573.7	573.7	573.7	573.7	572.5	571.0	570.2	571.8	575.1
177.5°	573.7	573.7	573.7	573.7	573.7	573.7	572.7	571.5	571.0	572.3	574.8
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7

TEST NUMBER: P934508

CATALOG NUMBER: SQ4-FA-050U-100D-B50-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2517.4	2510.0	2519.9	2492.8	2519.9	2510.0	2517.4	2534.7	2519.9	2529.7	2539.6
5°	2208.9	2196.6	2157.1	2125.0	2157.1	2196.6	2208.9	2260.7	2285.4	2329.9	2389.1
7.5°	1974.5	1964.6	1954.7	1935.0	1954.7	1964.6	1974.5	1989.2	2014.0	2053.4	2097.9
10°	1922.6	1925.1	1939.9	1937.4	1939.9	1925.1	1922.6	1917.7	1910.3	1917.7	1944.9
12.5°	2055.9	2078.2	2159.6	2154.6	2159.6	2078.2	2055.9	1957.2	1890.5	1878.2	1883.1
15°	2208.9	2216.3	2233.6	2236.1	2233.6	2216.3	2208.9	2169.4	1969.5	1883.1	1856.0
17.5°	2223.8	2226.2	2238.5	2238.5	2238.5	2226.2	2223.8	2206.5	2139.8	2023.8	1870.8
20°	2211.4	2216.3	2241.0	2246.0	2241.0	2216.3	2211.4	2189.2	2152.1	2110.2	1994.2
22.5°	2206.5	2216.3	2236.1	2233.6	2236.1	2216.3	2206.5	2171.9	2139.8	2110.2	2063.3
25°	2181.7	2181.7	2184.3	2186.7	2184.3	2181.7	2181.7	2154.6	2090.5	2083.0	2055.9
27.5°	2130.0	2134.8	2149.7	2147.3	2149.7	2134.8	2130.0	2120.1	2051.0	2043.6	2023.8
30°	2083.0	2078.2	2065.7	2055.9	2065.7	2078.2	2083.0	2068.2	1999.1	1979.4	1984.3
32.5°	2004.1	1991.8	1979.4	1972.0	1979.4	1991.8	2004.1	1999.1	1947.3	1920.1	1925.1
35°	1910.3	1912.7	1910.3	1902.8	1910.3	1912.7	1910.3	1915.3	1883.1	1858.5	1856.0
37.5°	1843.6	1848.6	1846.1	1836.2	1846.1	1848.6	1843.6	1838.7	1794.3	1786.9	1791.8
40°	1774.5	1777.0	1774.5	1767.1	1774.5	1777.0	1774.5	1764.7	1703.0	1705.4	1722.7
42.5°	1707.9	1705.4	1698.0	1693.1	1698.0	1705.4	1707.9	1693.1	1614.1	1606.7	1638.8
45°	1631.4	1633.8	1619.1	1611.6	1619.1	1633.8	1631.4	1621.5	1540.1	1520.4	1542.5
47.5°	1554.9	1554.9	1542.5	1535.1	1542.5	1554.9	1554.9	1542.5	1456.2	1436.4	1448.7
50°	1473.5	1471.0	1453.7	1451.2	1453.7	1471.0	1473.5	1466.0	1374.8	1357.5	1357.5
52.5°	1379.6	1379.6	1382.1	1387.1	1382.1	1379.6	1379.6	1382.1	1300.7	1283.4	1278.5
55°	1298.2	1300.7	1318.0	1322.9	1318.0	1300.7	1298.2	1298.2	1224.2	1206.9	1197.0
57.5°	1214.3	1214.3	1226.6	1226.6	1226.6	1214.3	1214.3	1209.3	1137.8	1122.9	1118.0
60°	1118.0	1122.9	1132.8	1130.4	1132.8	1122.9	1118.0	1113.1	1051.4	1041.5	1024.2
62.5°	1016.8	1021.8	1024.2	1019.3	1024.2	1021.8	1016.8	1002.0	965.0	957.6	935.4
65°	910.7	915.7	918.1	913.2	918.1	915.7	910.7	903.3	876.2	863.9	844.1
67.5°	802.1	799.7	797.2	807.1	797.2	799.7	802.1	792.2	774.9	765.1	738.0
70°	691.1	691.1	688.5	693.5	688.5	691.1	691.1	683.7	673.8	666.4	641.7
72.5°	572.6	570.1	580.0	572.6	580.0	570.1	572.6	570.1	565.2	557.8	533.1
75°	456.6	461.5	456.6	464.0	456.6	461.5	456.6	459.1	456.6	451.7	434.4
77.5°	348.0	353.0	348.0	348.0	348.0	353.0	348.0	350.4	350.4	350.4	335.7
80°	246.8	244.3	244.3	241.9	244.3	244.3	246.8	246.8	249.3	244.3	239.4
82.5°	157.9	155.5	155.5	160.5	155.5	155.5	157.9	160.5	155.5	155.5	155.5
85°	86.4	88.8	83.9	83.9	83.9	88.8	86.4	81.4	86.4	86.4	83.9
87.5°	32.1	29.6	29.6	29.6	29.6	29.6	32.1	34.6	34.6	34.6	37.0
90°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.2	25.1
92.5°	73.1	70.2	58.6	47.0	58.6	70.2	73.1	103.7	144.4	164.8	144.7
95°	248.4	239.6	204.3	169.1	204.3	239.6	248.4	326.2	429.8	481.7	406.8
97.5°	573.3	556.5	489.4	422.4	489.4	556.5	573.3	622.4	688.0	720.8	595.9
100°	805.0	785.0	705.2	625.2	705.2	785.0	805.0	801.5	796.7	794.3	655.8
102.5°	1002.9	985.8	917.4	848.9	917.4	985.8	1002.9	940.4	856.9	815.1	674.6
105°	1234.0	1224.8	1188.0	1151.2	1188.0	1224.8	1234.0	1093.6	906.4	812.8	676.8
107.5°	1354.1	1356.4	1365.2	1374.1	1365.2	1356.4	1354.1	1158.3	897.1	766.5	646.6
110°	1384.8	1394.5	1432.8	1471.1	1432.8	1394.5	1384.8	1165.9	874.0	728.1	619.9

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1365.2	1380.0	1438.8	1497.7	1438.8	1380.0	1365.2	1141.2	842.4	693.0	596.6
115°	1298.6	1319.0	1400.6	1482.3	1400.6	1319.0	1298.6	1082.8	795.0	651.1	569.9
117.5°	1206.6	1229.2	1319.8	1410.3	1319.8	1229.2	1206.6	1011.8	752.1	622.1	553.1
120°	1144.6	1166.6	1254.5	1342.5	1254.5	1166.6	1144.6	966.6	729.3	610.6	547.5
122.5°	1082.7	1104.4	1191.1	1277.9	1191.1	1104.4	1082.7	922.4	708.6	601.8	544.5
125°	1000.7	1020.7	1100.5	1180.5	1100.5	1020.7	1000.7	864.5	682.9	592.2	542.1
127.5°	934.8	951.7	1019.1	1086.5	1019.1	951.7	934.8	817.9	662.0	584.0	540.7
130°	893.2	908.8	971.1	1033.4	971.1	908.8	893.2	789.1	650.3	580.9	541.5
132.5°	857.8	871.7	927.6	983.3	927.6	871.7	857.8	764.7	640.4	578.3	542.1
135°	807.7	819.8	867.9	916.0	867.9	819.8	807.7	729.7	625.7	573.7	541.5
137.5°	770.8	780.6	820.1	859.4	820.1	780.6	770.8	704.9	616.9	572.9	544.9
140°	741.1	750.3	787.1	823.9	787.1	750.3	741.1	684.2	608.2	570.2	545.5
142.5°	720.4	728.3	759.9	791.6	759.9	728.3	720.4	670.3	603.6	570.2	547.4
145°	689.2	695.2	719.2	743.1	719.2	695.2	689.2	648.3	593.7	566.4	547.5
147.5°	663.0	667.9	687.8	707.7	687.8	667.9	663.0	630.7	587.9	566.4	551.2
150°	648.0	652.0	668.1	684.2	668.1	652.0	648.0	620.8	584.5	566.4	553.2
152.5°	636.1	639.1	651.3	663.4	651.3	639.1	636.1	612.8	581.9	566.4	554.5
155°	621.8	623.8	631.9	639.9	631.9	623.8	621.8	603.3	578.7	566.4	557.3
157.5°	609.4	610.8	616.5	622.1	616.5	610.8	609.4	595.1	575.9	566.4	560.1
160°	603.3	604.1	607.4	610.6	607.4	604.1	603.3	590.9	574.6	566.4	561.4
162.5°	597.6	598.3	601.4	604.5	601.4	598.3	597.6	587.2	573.3	566.4	562.8
165°	588.7	589.5	592.7	596.0	592.7	589.5	588.7	581.2	571.3	566.4	564.7
167.5°	584.9	585.2	586.6	588.0	586.6	585.2	584.9	580.0	573.5	570.2	568.8
170°	584.9	584.9	584.9	584.9	584.9	584.9	584.9	580.0	573.5	570.2	570.1
172.5°	581.8	581.5	580.3	579.1	580.3	581.5	581.8	578.0	572.8	570.2	570.2
175°	577.5	577.5	577.5	577.5	577.5	577.5	577.5	575.1	571.8	570.2	571.0
177.5°	576.7	576.4	575.1	573.7	575.1	576.4	576.7	574.8	572.3	571.0	571.5
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7

TEST NUMBER: P934508

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2576.6	2589.0	2596.4	2606.3	2631.0
5°	2477.9	2524.8	2539.6	2576.6	2621.1
7.5°	2260.7	2403.9	2443.3	2532.3	2601.4
10°	2051.0	2194.2	2263.2	2473.0	2576.6
12.5°	1944.9	2028.7	2075.6	2369.4	2542.1
15°	1878.2	1937.4	1972.0	2231.1	2502.7
17.5°	1826.3	1868.4	1893.0	2095.4	2448.3
20°	1794.3	1814.0	1836.2	1996.7	2386.7
22.5°	1772.1	1759.7	1777.0	1927.6	2302.7
25°	1757.2	1710.3	1730.1	1873.2	2204.0
27.5°	1769.6	1666.0	1673.4	1823.9	2100.3
30°	1772.1	1611.6	1614.1	1772.1	1984.3
32.5°	1754.8	1554.9	1557.4	1707.9	1853.5
35°	1712.9	1488.2	1485.8	1633.8	1675.8
37.5°	1656.1	1416.7	1416.7	1552.4	1480.9
40°	1587.0	1345.1	1352.5	1446.3	1308.1
42.5°	1503.1	1268.6	1278.5	1305.6	1179.7
45°	1411.7	1194.6	1202.0	1103.2	1081.0
47.5°	1310.6	1118.0	1120.5	915.7	1049.0
50°	1189.6	1039.1	1029.2	784.8	1046.5
52.5°	1083.4	952.7	923.1	710.8	950.3
55°	979.9	861.3	797.2	654.1	881.1
57.5°	888.5	742.9	681.2	587.4	866.3
60°	804.5	626.9	580.0	515.8	794.7
62.5°	735.5	540.5	530.6	466.4	720.7
65°	661.5	481.3	478.8	424.5	612.1
67.5°	589.9	441.8	439.4	385.0	466.4
70°	513.3	399.8	394.9	343.1	345.5
72.5°	434.4	353.0	348.0	308.5	286.3
75°	355.4	298.6	296.2	269.0	232.0
77.5°	278.9	237.0	241.9	217.2	170.3
80°	199.9	172.8	177.7	155.5	128.3
82.5°	133.3	113.6	118.4	98.7	86.4
85°	74.1	64.2	66.6	51.8	39.5
87.5°	34.6	29.6	29.6	19.7	12.3
90°	16.9	10.7	10.0	6.9	3.8
92.5°	104.5	74.3	67.8	41.6	15.4
95°	257.0	144.8	132.8	84.9	37.0
97.5°	346.2	159.0	148.4	106.1	63.9
100°	378.7	170.9	161.3	123.0	84.7
102.5°	393.6	182.9	173.9	138.2	102.5
105°	404.7	200.6	193.1	162.7	132.4
107.5°	406.7	226.8	219.7	191.5	163.3
110°	403.7	241.4	235.1	209.5	184.0



TEST NUMBER: P934508

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	403.8	259.1	253.0	228.7	204.5
115°	407.5	285.7	280.1	257.7	235.3
117.5°	415.1	311.5	306.4	286.0	265.6
120°	421.2	326.5	321.8	302.5	283.4
122.5°	430.0	344.2	339.3	320.0	300.7
125°	442.0	366.9	362.5	344.8	327.3
127.5°	453.9	388.8	384.3	366.6	348.8
130°	462.6	403.5	398.7	379.5	360.3
132.5°	469.7	415.4	410.7	391.4	372.3
135°	477.4	429.3	424.9	407.5	390.0
137.5°	488.9	447.0	442.7	425.4	408.2
140°	496.0	459.0	455.0	439.1	423.1
142.5°	501.9	467.7	464.1	449.3	434.7
145°	509.7	481.3	478.1	465.2	452.4
147.5°	520.9	498.2	495.1	482.6	470.1
150°	526.9	507.1	504.3	493.0	481.7
152.5°	530.7	512.9	510.7	502.2	493.6
155°	539.2	525.6	524.0	517.6	511.3
157.5°	547.6	538.3	536.7	530.5	524.3
160°	551.5	544.1	542.8	538.1	533.2
162.5°	555.6	550.2	549.3	545.7	542.1
165°	561.4	559.0	558.2	555.0	551.7
167.5°	566.1	564.0	563.7	562.1	560.6
170°	569.9	569.8	569.5	567.9	566.4
172.5°	570.2	570.2	570.1	569.8	569.5
175°	572.5	573.7	573.7	573.7	573.7
177.5°	572.7	573.7	573.7	573.7	573.7
180°	573.7	573.7	573.7	573.7	573.7

(END OF REPORT)