

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: P934600

Luminaire Tested: SQ4-FA-050U-125D-B35-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934600
REPORT IS A COMBINATION OF REPORTS P933704 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-B35-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

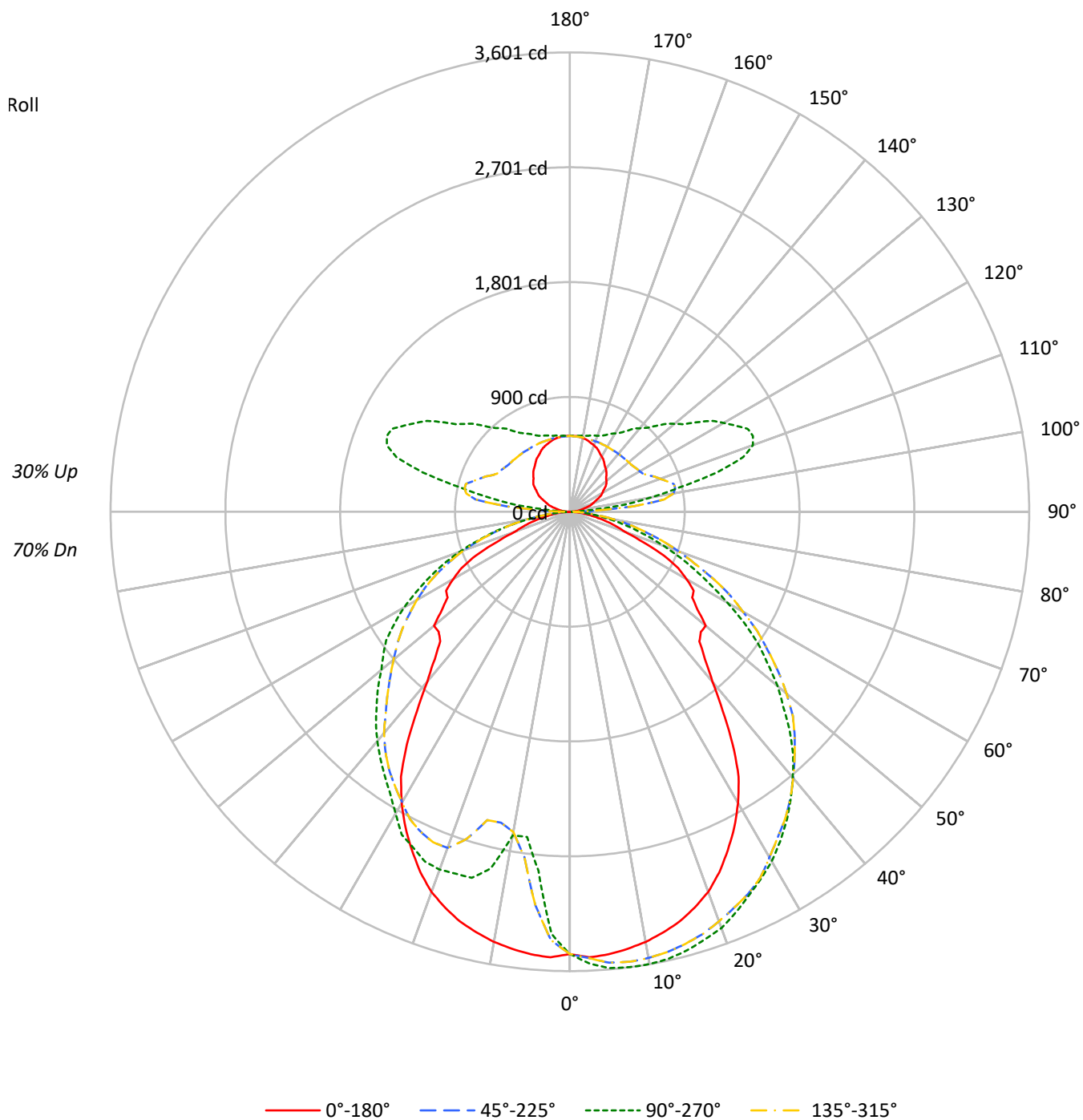
Lumens per Lamp: N/A
Luminaire Lumens: 12848.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 112
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27
8	57	44	36	30	54	42	35	29	38	32	28	35	29	26	31	27	24
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16082	16082	16082	16082
5°	16202	16234	16202	12765
10°	16094	15991	16094	11433
15°	15919	15645	15919	13064
20°	15586	15234	15586	13091
25°	14905	14636	14905	12814
30°	14024	14139	14024	12205
35°	12502	13510	12502	11535
40°	10418	12770	10418	11030
45°	9308	11904	9308	10448
50°	9889	10871	9889	9865
55°	9304	9758	9304	9527
60°	9590	8288	9590	8726
65°	8696	6851	8696	7658
70°	6021	5459	6021	6419
75°	5279	4035	5279	4832
80°	4254	2669	4254	2905
85°	2441	1413	2441	1201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 14266 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	2.4
10°-20°	888.4	6.9
20°-30°	1373.3	10.7
30°-40°	1639.4	12.8
40°-50°	1649.0	12.8
50°-60°	1434.9	11.2
60°-70°	1017.3	7.9
70°-80°	538.2	4.2
80°-90°	136.3	1.1
90°-100°	290.1	2.3
100°-110°	762.7	5.9
110°-120°	790.9	6.2
120°-130°	634.4	4.9
130°-140°	497.8	3.9
140°-150°	382.1	3.0
150°-160°	275.1	2.1
160°-170°	168.3	1.3
170°-180°	56.9	0.4
0°-30°	2574.6	20.0
0°-40°	4214.0	32.8
0°-60°	7297.9	56.8
0°-90°	8989.7	70.0
90°-120°	1843.7	14.4
90°-150°	3357.9	26.1
90°-180°	3858.0	30.0
0°-180°	12848.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3466	3466	3466	3466	3466	
5°	3483	3591	3483	2824	3483	330
15°	3325	3558	3325	2971	3325	936
25°	2928	3319	2928	2906	2928	1345
35°	2227	2961	2227	2528	2227	1378
45°	1436	2440	1436	2141	1436	1151
55°	1171	1800	1171	1758	1171	1076
65°	813	1086	813	1213	813	777
75°	308	515	308	616	308	324
85°	52	131	52	112	52	71
90°	4	15	4	15	4	6
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	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3
2.5°	3495.8	3495.8	3515.4	3522.0	3522.0	3512.2	3502.4	3512.2	3541.7	3551.6	3548.3
5°	3482.7	3508.9	3545.0	3551.6	3558.1	3554.9	3548.3	3554.9	3587.6	3594.2	3597.5
7.5°	3456.4	3505.6	3551.6	3561.4	3571.2	3561.4	3558.1	3564.7	3597.5	3604.0	3604.0
10°	3423.7	3492.6	3545.0	3551.6	3561.4	3551.6	3551.6	3564.7	3597.5	3604.0	3607.3
12.5°	3377.7	3472.8	3522.0	3528.6	3541.7	3538.4	3535.2	3548.3	3581.0	3587.6	3587.6
15°	3325.3	3436.8	3482.7	3489.3	3512.2	3505.6	3505.6	3518.7	3554.9	3564.7	3561.4
17.5°	3253.1	3390.8	3443.3	3453.1	3469.6	3466.3	3469.6	3482.7	3515.4	3522.0	3525.3
20°	3171.1	3328.5	3390.8	3400.7	3417.1	3417.1	3417.1	3433.5	3466.3	3479.4	3479.4
22.5°	3059.6	3263.0	3328.5	3335.1	3354.8	3354.8	3361.4	3384.3	3413.8	3417.1	3417.1
25°	2928.5	3190.8	3246.5	3266.2	3285.9	3295.8	3305.6	3318.7	3328.5	3325.3	3328.5
27.5°	2790.7	3099.0	3171.1	3184.2	3210.5	3220.4	3233.5	3236.8	3240.0	3249.8	3243.2
30°	2636.6	2971.1	3079.3	3092.5	3135.1	3141.6	3128.5	3135.1	3151.5	3158.1	3164.6
32.5°	2462.8	2780.9	2984.2	3013.8	3053.1	3033.5	3030.2	3039.9	3066.2	3066.2	3072.8
35°	2226.7	2633.4	2895.7	2921.9	2951.4	2928.5	2941.6	2944.9	2961.3	2971.1	2967.9
37.5°	1967.7	2505.4	2803.9	2823.6	2846.5	2817.0	2836.7	2846.5	2859.6	2853.0	2853.0
40°	1738.1	2305.3	2695.7	2708.7	2728.4	2705.4	2725.1	2731.7	2738.3	2731.7	2728.4
42.5°	1567.6	2085.7	2580.8	2597.2	2584.1	2600.5	2607.1	2620.2	2610.4	2597.2	2597.2
45°	1436.3	2026.7	2456.2	2475.9	2456.2	2482.5	2492.4	2492.4	2462.8	2456.2	2452.9
47.5°	1393.7	1908.5	2331.6	2331.6	2321.8	2354.6	2370.9	2348.0	2318.5	2308.6	2308.6
50°	1390.4	1777.4	2161.1	2148.0	2193.9	2233.3	2216.9	2193.9	2170.9	2134.9	2134.9
52.5°	1262.5	1616.7	1941.4	1990.6	2062.7	2085.7	2059.4	2036.5	1997.1	1980.7	1967.7
55°	1170.7	1449.5	1741.4	1839.7	1915.1	1944.7	1895.5	1872.5	1813.5	1803.7	1797.1
57.5°	1151.1	1206.8	1557.7	1682.3	1774.1	1770.8	1741.4	1698.8	1649.5	1639.6	1636.4
60°	1055.9	872.3	1361.0	1508.5	1603.6	1593.8	1567.6	1528.2	1482.3	1475.7	1469.2
62.5°	957.6	633.0	1137.9	1305.1	1439.6	1436.3	1413.4	1354.4	1321.6	1305.1	1292.1
65°	813.3	531.3	810.0	1085.5	1279.0	1285.5	1236.3	1193.7	1157.6	1137.9	1134.7
67.5°	619.8	432.9	547.7	905.1	1124.8	1118.2	1055.9	1036.2	990.4	980.5	960.9
70°	459.1	288.6	380.4	734.6	973.9	957.6	908.3	885.5	842.8	819.9	806.7
72.5°	380.4	232.9	278.8	570.6	819.9	800.2	757.6	731.3	695.3	675.6	662.4
75°	308.2	245.9	213.2	423.1	665.7	652.6	613.3	587.0	557.5	531.3	534.5
77.5°	226.3	229.6	170.5	311.5	528.0	508.3	485.4	452.5	439.4	413.2	413.2
80°	170.5	180.3	127.9	213.2	380.4	380.4	360.8	337.8	314.8	301.7	301.7
82.5°	114.7	114.7	95.1	134.5	259.1	249.2	236.1	229.6	216.5	209.9	209.9
85°	52.4	65.6	59.0	82.0	141.0	147.6	147.6	141.0	137.7	131.2	134.5
87.5°	16.4	29.6	36.0	45.9	72.2	75.4	78.7	78.7	78.7	82.0	82.0
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°	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3
2.5°	3554.9	3545.0	3554.9	3548.3	3551.6	3541.7	3512.2	3502.4	3512.2	3522.0	3522.0
5°	3597.5	3590.9	3597.5	3597.5	3594.2	3587.6	3554.9	3548.3	3554.9	3558.1	3551.6
7.5°	3610.6	3600.7	3610.6	3604.0	3604.0	3597.5	3564.7	3558.1	3561.4	3571.2	3561.4
10°	3610.6	3600.7	3610.6	3607.3	3604.0	3597.5	3564.7	3551.6	3551.6	3561.4	3551.6
12.5°	3594.2	3587.6	3594.2	3587.6	3587.6	3581.0	3548.3	3535.2	3538.4	3541.7	3528.6
15°	3568.0	3558.1	3568.0	3561.4	3564.7	3554.9	3518.7	3505.6	3505.6	3512.2	3489.3
17.5°	3528.6	3515.4	3528.6	3525.3	3522.0	3515.4	3482.7	3469.6	3466.3	3469.6	3453.1
20°	3482.7	3472.8	3482.7	3479.4	3479.4	3466.3	3433.5	3417.1	3417.1	3417.1	3400.7
22.5°	3410.5	3400.7	3410.5	3417.1	3417.1	3413.8	3384.3	3361.4	3354.8	3354.8	3335.1
25°	3328.5	3318.7	3328.5	3328.5	3325.3	3328.5	3318.7	3305.6	3295.8	3285.9	3266.2
27.5°	3249.8	3243.2	3249.8	3243.2	3249.8	3240.0	3236.8	3233.5	3220.4	3210.5	3184.2
30°	3171.1	3164.6	3171.1	3164.6	3158.1	3151.5	3135.1	3128.5	3141.6	3135.1	3092.5
32.5°	3072.8	3066.2	3072.8	3072.8	3066.2	3066.2	3039.9	3030.2	3033.5	3053.1	3013.8
35°	2971.1	2961.3	2971.1	2967.9	2971.1	2961.3	2944.9	2941.6	2928.5	2951.4	2921.9
37.5°	2853.0	2843.2	2853.0	2853.0	2853.0	2859.6	2846.5	2836.7	2817.0	2846.5	2823.6
40°	2731.7	2718.6	2731.7	2728.4	2731.7	2738.3	2731.7	2725.1	2705.4	2728.4	2708.7
42.5°	2594.0	2590.7	2594.0	2597.2	2597.2	2610.4	2620.2	2607.1	2600.5	2584.1	2597.2
45°	2446.4	2439.8	2446.4	2452.9	2456.2	2462.8	2492.4	2492.4	2482.5	2456.2	2475.9
47.5°	2289.0	2272.6	2289.0	2308.6	2308.6	2318.5	2348.0	2370.9	2354.6	2321.8	2331.6
50°	2121.7	2125.0	2121.7	2134.9	2134.9	2170.9	2193.9	2216.9	2233.3	2193.9	2148.0
52.5°	1957.8	1954.5	1957.8	1967.7	1980.7	1997.1	2036.5	2059.4	2085.7	2062.7	1990.6
55°	1793.8	1800.4	1793.8	1797.1	1803.7	1813.5	1872.5	1895.5	1944.7	1915.1	1839.7
57.5°	1629.9	1620.0	1629.9	1636.4	1639.6	1649.5	1698.8	1741.4	1770.8	1774.1	1682.3
60°	1439.6	1426.6	1439.6	1469.2	1475.7	1482.3	1528.2	1567.6	1593.8	1603.6	1508.5
62.5°	1272.4	1249.4	1272.4	1292.1	1305.1	1321.6	1354.4	1413.4	1436.3	1439.6	1305.1
65°	1095.3	1085.5	1095.3	1134.7	1137.9	1157.6	1193.7	1236.3	1285.5	1279.0	1085.5
67.5°	934.6	934.6	934.6	960.9	980.5	990.4	1036.2	1055.9	1118.2	1124.8	905.1
70°	787.0	783.7	787.0	806.7	819.9	842.8	885.5	908.3	957.6	973.9	734.6
72.5°	646.0	642.7	646.0	662.4	675.6	695.3	731.3	757.6	800.2	819.9	570.6
75°	521.4	514.8	521.4	534.5	531.3	557.5	587.0	613.3	652.6	665.7	423.1
77.5°	400.1	400.1	400.1	413.2	413.2	439.4	452.5	485.4	508.3	528.0	311.5
80°	298.5	295.2	298.5	301.7	301.7	314.8	337.8	360.8	380.4	380.4	213.2
82.5°	209.9	203.3	209.9	209.9	209.9	216.5	229.6	236.1	249.2	259.1	134.5
85°	131.2	131.2	131.2	134.5	131.2	137.7	141.0	147.6	147.6	141.0	82.0
87.5°	85.3	82.0	85.3	82.0	82.0	78.7	78.7	78.7	75.4	72.2	45.9
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: P934600

CATALOG NUMBER: SQ4-FA-050U-125D-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: P934600

CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3
2.5°	3515.4	3495.8	3495.8	3463.0	3449.9	3440.0	3423.7	3374.4	3361.4	3348.2	3368.0
5°	3545.0	3508.9	3482.7	3423.7	3374.4	3354.8	3292.5	3174.4	3095.8	3036.7	3003.9
7.5°	3551.6	3505.6	3456.4	3364.7	3246.5	3194.1	3003.9	2787.4	2728.4	2676.0	2643.1
10°	3545.0	3492.6	3423.7	3285.9	3007.2	2915.3	2725.1	2584.1	2548.1	2538.2	2548.1
12.5°	3522.0	3472.8	3377.7	3148.2	2758.0	2695.7	2584.1	2502.2	2495.6	2512.0	2600.5
15°	3482.7	3436.8	3325.3	2964.6	2620.2	2574.3	2495.6	2466.1	2502.2	2617.0	2882.6
17.5°	3443.3	3390.8	3253.1	2784.2	2515.2	2482.5	2426.8	2485.8	2689.1	2843.2	2931.7
20°	3390.8	3328.5	3171.1	2653.0	2439.8	2410.3	2384.1	2649.7	2803.9	2859.6	2908.8
22.5°	3328.5	3263.0	3059.6	2561.2	2361.2	2338.2	2354.6	2741.6	2803.9	2843.2	2885.9
25°	3246.5	3190.8	2928.5	2489.1	2298.9	2272.6	2334.9	2731.7	2767.8	2777.6	2862.9
27.5°	3171.1	3099.0	2790.7	2423.5	2223.4	2213.6	2351.3	2689.1	2715.3	2725.1	2817.0
30°	3079.3	2971.1	2636.6	2354.6	2144.7	2141.4	2354.6	2636.6	2630.1	2656.3	2748.1
32.5°	2984.2	2780.9	2462.8	2269.3	2069.3	2066.0	2331.6	2557.9	2551.4	2587.4	2656.3
35°	2895.7	2633.4	2226.7	2170.9	1974.1	1977.4	2275.9	2466.1	2469.4	2502.2	2544.8
37.5°	2803.9	2505.4	1967.7	2062.7	1882.4	1882.4	2200.4	2380.8	2374.2	2384.1	2443.1
40°	2695.7	2305.3	1738.1	1921.7	1797.1	1787.2	2108.6	2289.0	2266.0	2262.8	2344.8
42.5°	2580.8	2085.7	1567.6	1734.8	1698.8	1685.6	1997.1	2177.5	2134.9	2144.7	2249.6
45°	2456.2	2026.7	1436.3	1465.9	1597.0	1587.2	1875.8	2049.6	2020.1	2046.3	2154.6
47.5°	2331.6	1908.5	1393.7	1216.7	1488.9	1485.6	1741.4	1925.0	1908.5	1934.8	2049.6
50°	2161.1	1777.4	1390.4	1042.8	1367.5	1380.6	1580.6	1803.7	1803.7	1826.6	1948.0
52.5°	1941.4	1616.7	1262.5	944.5	1226.5	1265.8	1439.6	1698.8	1705.2	1728.2	1836.4
55°	1741.4	1449.5	1170.7	869.0	1059.2	1144.5	1301.9	1590.5	1603.6	1626.6	1724.9
57.5°	1557.7	1206.8	1151.1	780.5	905.1	987.1	1180.5	1485.6	1492.1	1511.8	1606.9
60°	1361.0	872.3	1055.9	685.4	770.6	833.0	1069.1	1361.0	1383.9	1397.0	1479.0
62.5°	1137.9	633.0	957.6	619.8	705.0	718.2	977.2	1242.8	1272.4	1282.3	1331.4
65°	810.0	531.3	813.3	564.1	636.1	639.4	878.9	1121.5	1147.8	1164.2	1200.2
67.5°	547.7	432.9	619.8	511.5	583.7	587.0	783.7	980.5	1016.6	1029.8	1052.7
70°	380.4	288.6	459.1	455.8	524.7	531.3	682.1	852.6	885.5	895.3	908.3
72.5°	278.8	232.9	380.4	409.9	462.4	469.0	577.1	708.3	741.1	751.0	757.6
75°	213.2	245.9	308.2	357.5	393.5	396.8	472.2	577.1	600.1	606.7	610.0
77.5°	170.5	229.6	226.3	288.6	321.4	314.8	370.5	446.0	465.7	465.7	465.7
80°	127.9	180.3	170.5	206.6	236.1	229.6	265.6	318.1	324.6	331.2	327.9
82.5°	95.1	114.7	114.7	131.2	157.4	150.9	177.1	206.6	206.6	206.6	213.2
85°	59.0	65.6	52.4	68.9	88.6	85.3	98.4	111.5	114.7	114.7	108.2
87.5°	36.0	29.6	16.4	26.3	39.3	39.3	45.9	49.2	45.9	45.9	45.9
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: P934600

CATALOG NUMBER: SQ4-FA-050U-125D-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: P934600

CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3	3466.3
2.5°	3345.0	3335.1	3348.2	3312.1	3348.2	3335.1	3345.0	3368.0	3348.2	3361.4	3374.4
5°	2935.0	2918.6	2866.2	2823.6	2866.2	2918.6	2935.0	3003.9	3036.7	3095.8	3174.4
7.5°	2623.5	2610.4	2597.2	2571.0	2597.2	2610.4	2623.5	2643.1	2676.0	2728.4	2787.4
10°	2554.7	2557.9	2577.5	2574.3	2577.5	2557.9	2554.7	2548.1	2538.2	2548.1	2584.1
12.5°	2731.7	2761.3	2869.4	2862.9	2869.4	2761.3	2731.7	2600.5	2512.0	2495.6	2502.2
15°	2935.0	2944.9	2967.9	2971.1	2967.9	2944.9	2935.0	2882.6	2617.0	2502.2	2466.1
17.5°	2954.7	2958.0	2974.3	2974.3	2974.3	2958.0	2954.7	2931.7	2843.2	2689.1	2485.8
20°	2938.3	2944.9	2977.6	2984.2	2977.6	2944.9	2938.3	2908.8	2859.6	2803.9	2649.7
22.5°	2931.7	2944.9	2971.1	2967.9	2971.1	2944.9	2931.7	2885.9	2843.2	2803.9	2741.6
25°	2899.0	2899.0	2902.3	2905.5	2902.3	2899.0	2899.0	2862.9	2777.6	2767.8	2731.7
27.5°	2830.1	2836.7	2856.3	2853.0	2856.3	2836.7	2830.1	2817.0	2725.1	2715.3	2689.1
30°	2767.8	2761.3	2744.8	2731.7	2744.8	2761.3	2767.8	2748.1	2656.3	2630.1	2636.6
32.5°	2662.8	2646.4	2630.1	2620.2	2630.1	2646.4	2662.8	2656.3	2587.4	2551.4	2557.9
35°	2538.2	2541.5	2538.2	2528.4	2538.2	2541.5	2538.2	2544.8	2502.2	2469.4	2466.1
37.5°	2449.7	2456.2	2452.9	2439.8	2452.9	2456.2	2449.7	2443.1	2384.1	2374.2	2380.8
40°	2357.9	2361.2	2357.9	2348.0	2357.9	2361.2	2357.9	2344.8	2262.8	2266.0	2289.0
42.5°	2269.3	2266.0	2256.2	2249.6	2256.2	2266.0	2269.3	2249.6	2144.7	2134.9	2177.5
45°	2167.7	2170.9	2151.3	2141.4	2151.3	2170.9	2167.7	2154.6	2046.3	2020.1	2049.6
47.5°	2066.0	2066.0	2049.6	2039.7	2049.6	2066.0	2066.0	2049.6	1934.8	1908.5	1925.0
50°	1957.8	1954.5	1931.5	1928.3	1931.5	1954.5	1957.8	1948.0	1826.6	1803.7	1803.7
52.5°	1833.2	1833.2	1836.4	1843.0	1836.4	1833.2	1833.2	1836.4	1728.2	1705.2	1698.8
55°	1724.9	1728.2	1751.2	1757.8	1751.2	1728.2	1724.9	1724.9	1626.6	1603.6	1590.5
57.5°	1613.5	1613.5	1629.9	1629.9	1629.9	1613.5	1613.5	1606.9	1511.8	1492.1	1485.6
60°	1485.6	1492.1	1505.2	1502.0	1505.2	1492.1	1485.6	1479.0	1397.0	1383.9	1361.0
62.5°	1351.1	1357.7	1361.0	1354.4	1361.0	1357.7	1351.1	1331.4	1282.3	1272.4	1242.8
65°	1210.1	1216.7	1220.0	1213.4	1220.0	1216.7	1210.1	1200.2	1164.2	1147.8	1121.5
67.5°	1065.8	1062.5	1059.2	1072.4	1059.2	1062.5	1065.8	1052.7	1029.8	1016.6	980.5
70°	918.2	918.2	914.9	921.5	914.9	918.2	918.2	908.3	895.3	885.5	852.6
72.5°	760.9	757.6	770.6	760.9	770.6	757.6	760.9	757.6	751.0	741.1	708.3
75°	606.7	613.3	606.7	616.5	606.7	613.3	606.7	610.0	606.7	600.1	577.1
77.5°	462.4	469.0	462.4	462.4	462.4	469.0	462.4	465.7	465.7	465.7	446.0
80°	327.9	324.6	324.6	321.4	324.6	324.6	327.9	327.9	331.2	324.6	318.1
82.5°	209.9	206.6	206.6	213.2	206.6	206.6	209.9	213.2	206.6	206.6	206.6
85°	114.7	118.0	111.5	111.5	111.5	118.0	114.7	108.2	114.7	114.7	111.5
87.5°	42.6	39.3	39.3	39.3	39.3	39.3	42.6	45.9	45.9	45.9	49.2
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°	3466.3	3466.3	3466.3	3466.3	3466.3
2.5°	3423.7	3440.0	3449.9	3463.0	3495.8
5°	3292.5	3354.8	3374.4	3423.7	3482.7
7.5°	3003.9	3194.1	3246.5	3364.7	3456.4
10°	2725.1	2915.3	3007.2	3285.9	3423.7
12.5°	2584.1	2695.7	2758.0	3148.2	3377.7
15°	2495.6	2574.3	2620.2	2964.6	3325.3
17.5°	2426.8	2482.5	2515.2	2784.2	3253.1
20°	2384.1	2410.3	2439.8	2653.0	3171.1
22.5°	2354.6	2338.2	2361.2	2561.2	3059.6
25°	2334.9	2272.6	2298.9	2489.1	2928.5
27.5°	2351.3	2213.6	2223.4	2423.5	2790.7
30°	2354.6	2141.4	2144.7	2354.6	2636.6
32.5°	2331.6	2066.0	2069.3	2269.3	2462.8
35°	2275.9	1977.4	1974.1	2170.9	2226.7
37.5°	2200.4	1882.4	1882.4	2062.7	1967.7
40°	2108.6	1787.2	1797.1	1921.7	1738.1
42.5°	1997.1	1685.6	1698.8	1734.8	1567.6
45°	1875.8	1587.2	1597.0	1465.9	1436.3
47.5°	1741.4	1485.6	1488.9	1216.7	1393.7
50°	1580.6	1380.6	1367.5	1042.8	1390.4
52.5°	1439.6	1265.8	1226.5	944.5	1262.5
55°	1301.9	1144.5	1059.2	869.0	1170.7
57.5°	1180.5	987.1	905.1	780.5	1151.1
60°	1069.1	833.0	770.6	685.4	1055.9
62.5°	977.2	718.2	705.0	619.8	957.6
65°	878.9	639.4	636.1	564.1	813.3
67.5°	783.7	587.0	583.7	511.5	619.8
70°	682.1	531.3	524.7	455.8	459.1
72.5°	577.1	469.0	462.4	409.9	380.4
75°	472.2	396.8	393.5	357.5	308.2
77.5°	370.5	314.8	321.4	288.6	226.3
80°	265.6	229.6	236.1	206.6	170.5
82.5°	177.1	150.9	157.4	131.2	114.7
85°	98.4	85.3	88.6	68.9	52.4
87.5°	45.9	39.3	39.3	26.3	16.4
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: P934600

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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

(END OF REPORT)