

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: P934608

Luminaire Tested: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934608
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-B50-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

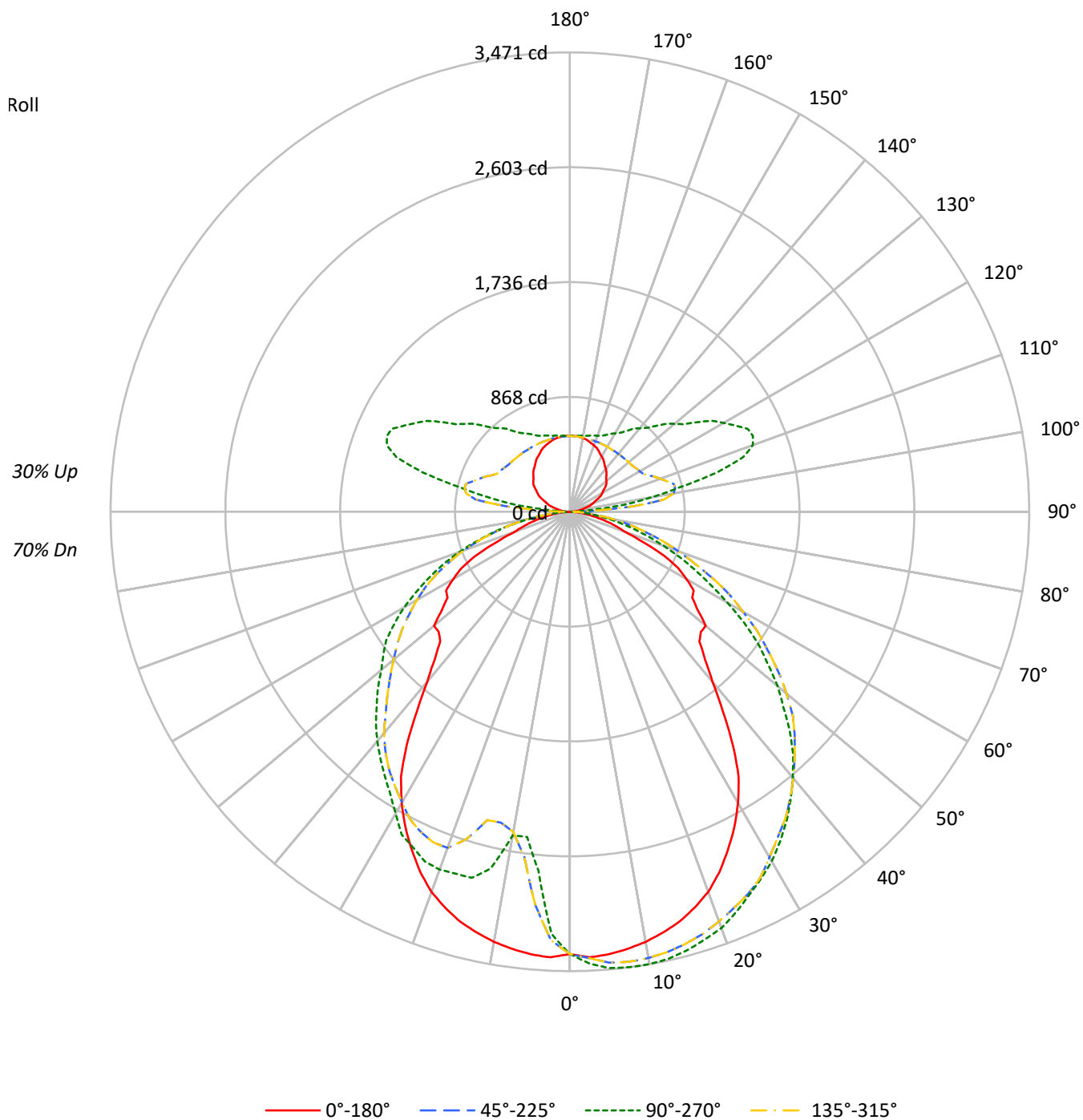
Lumens per Lamp: N/A
Luminaire Lumens: 12383.9 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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°	15501	15501	15501	15501
5°	15617	15648	15617	12304
10°	15513	15414	15513	11020
15°	15344	15080	15344	12592
20°	15023	14684	15023	12618
25°	14366	14108	14366	12351
30°	13518	13628	13518	11764
35°	12050	13022	12050	11119
40°	10041	12309	10041	10631
45°	8972	11474	8972	10070
50°	9532	10478	9532	9509
55°	8968	9406	8968	9183
60°	9244	7988	9244	8410
65°	8381	6603	8381	7382
70°	5803	5262	5803	6187
75°	5088	3889	5088	4658
80°	4102	2572	4102	2801
85°	2352	1363	2352	1158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 13751 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	2.4
10°-20°	856.3	6.9
20°-30°	1323.7	10.7
30°-40°	1580.2	12.8
40°-50°	1589.5	12.8
50°-60°	1383.0	11.2
60°-70°	980.6	7.9
70°-80°	518.8	4.2
80°-90°	131.4	1.1
90°-100°	279.6	2.3
100°-110°	735.2	5.9
110°-120°	762.3	6.2
120°-130°	611.4	4.9
130°-140°	479.8	3.9
140°-150°	368.3	3.0
150°-160°	265.2	2.1
160°-170°	162.3	1.3
170°-180°	54.8	0.4
0°-30°	2481.6	20.0
0°-40°	4061.8	32.8
0°-60°	7034.3	56.8
0°-90°	8665.0	70.0
90°-120°	1777.1	14.4
90°-150°	3236.6	26.1
90°-180°	3719.0	30.0
0°-180°	12383.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3341	3341	3341	3341	3341	
5°	3357	3461	3357	2722	3357	318
15°	3205	3430	3205	2864	3205	902
25°	2823	3199	2823	2801	2823	1296
35°	2146	2854	2146	2437	2146	1328
45°	1384	2352	1384	2064	1384	1109
55°	1128	1735	1128	1694	1128	1037
65°	784	1046	784	1170	784	749
75°	297	496	297	594	297	312
85°	50	126	50	108	50	68
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°	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1
2.5°	3369.5	3369.5	3388.5	3394.8	3394.8	3385.4	3375.8	3385.4	3413.8	3423.3	3420.1
5°	3356.9	3382.2	3416.9	3423.3	3429.6	3426.5	3420.1	3426.5	3458.0	3464.4	3467.6
7.5°	3331.6	3379.0	3423.3	3432.7	3442.3	3432.7	3429.6	3435.9	3467.6	3473.8	3473.8
10°	3300.0	3366.4	3416.9	3423.3	3432.7	3423.3	3423.3	3435.9	3467.6	3473.8	3477.0
12.5°	3255.7	3347.4	3394.8	3401.2	3413.8	3410.6	3407.5	3420.1	3451.7	3458.0	3458.0
15°	3205.2	3312.6	3356.9	3363.2	3385.4	3379.0	3379.0	3391.6	3426.5	3435.9	3432.7
17.5°	3135.6	3268.3	3319.0	3328.4	3344.3	3341.1	3344.3	3356.9	3388.5	3394.8	3398.0
20°	3056.6	3208.3	3268.3	3277.9	3293.7	3293.7	3293.7	3309.4	3341.1	3353.7	3353.7
22.5°	2949.1	3145.2	3208.3	3214.6	3233.6	3233.6	3240.0	3262.1	3290.5	3293.7	3293.7
25°	2822.7	3075.6	3129.3	3148.2	3167.2	3176.7	3186.2	3198.9	3208.3	3205.2	3208.3
27.5°	2689.9	2987.0	3056.6	3069.2	3094.5	3104.1	3116.7	3119.8	3123.0	3132.4	3126.1
30°	2541.4	2863.8	2968.1	2980.8	3021.9	3028.1	3015.5	3021.9	3037.6	3044.0	3050.3
32.5°	2373.9	2680.5	2876.4	2904.9	2942.8	2923.9	2920.7	2930.1	2955.5	2955.5	2961.8
35°	2146.2	2538.2	2791.1	2816.4	2844.8	2822.7	2835.3	2838.5	2854.3	2863.8	2860.7
37.5°	1896.6	2415.0	2702.6	2721.6	2743.7	2715.2	2734.2	2743.7	2756.3	2750.0	2750.0
40°	1675.3	2222.1	2598.3	2610.9	2629.9	2607.7	2626.7	2633.0	2639.4	2633.0	2629.9
42.5°	1510.9	2010.3	2487.6	2503.4	2490.8	2506.6	2512.9	2525.5	2516.1	2503.4	2503.4
45°	1384.5	1953.5	2367.5	2386.5	2367.5	2392.8	2402.3	2402.3	2373.9	2367.5	2364.3
47.5°	1343.4	1839.6	2247.4	2247.4	2238.0	2269.5	2285.3	2263.2	2234.8	2225.3	2225.3
50°	1340.2	1713.2	2083.0	2070.4	2114.7	2152.6	2136.8	2114.7	2092.5	2057.8	2057.8
52.5°	1216.9	1558.3	1871.3	1918.7	1988.2	2010.3	1985.0	1962.9	1925.0	1909.2	1896.6
55°	1128.5	1397.2	1678.5	1773.3	1846.0	1874.4	1827.0	1804.9	1748.0	1738.5	1732.2
57.5°	1109.5	1163.2	1501.4	1621.5	1710.1	1706.9	1678.5	1637.4	1589.9	1580.4	1577.3
60°	1017.8	840.8	1311.8	1454.1	1545.7	1536.2	1510.9	1473.0	1428.7	1422.4	1416.1
62.5°	923.0	610.1	1096.8	1258.0	1387.6	1384.5	1362.3	1305.5	1273.9	1258.0	1245.4
65°	783.9	512.1	780.7	1046.3	1232.8	1239.0	1191.7	1150.6	1115.8	1096.8	1093.7
67.5°	597.4	417.2	527.9	872.4	1084.2	1077.8	1017.8	998.8	954.6	945.1	926.2
70°	442.5	278.1	366.7	708.1	938.8	923.0	875.5	853.5	812.4	790.3	777.6
72.5°	366.7	224.4	268.7	550.0	790.3	771.3	730.2	704.9	670.1	651.2	638.5
75°	297.1	237.0	205.5	407.8	641.7	629.0	591.1	565.8	537.3	512.1	515.2
77.5°	218.1	221.3	164.4	300.3	508.9	490.0	467.8	436.2	423.6	398.3	398.3
80°	164.4	173.8	123.3	205.5	366.7	366.7	347.7	325.6	303.5	290.8	290.8
82.5°	110.6	110.6	91.6	129.6	249.8	240.2	227.6	221.3	208.7	202.3	202.3
85°	50.5	63.2	56.9	79.0	135.9	142.2	142.2	135.9	132.7	126.5	129.6
87.5°	15.8	28.5	34.7	44.3	69.6	72.7	75.8	75.8	75.8	79.0	79.0
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°	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1
2.5°	3426.5	3416.9	3426.5	3420.1	3423.3	3413.8	3385.4	3375.8	3385.4	3394.8	3394.8
5°	3467.6	3461.2	3467.6	3467.6	3464.4	3458.0	3426.5	3420.1	3426.5	3429.6	3423.3
7.5°	3480.2	3470.7	3480.2	3473.8	3473.8	3467.6	3435.9	3429.6	3432.7	3442.3	3432.7
10°	3480.2	3470.7	3480.2	3477.0	3473.8	3467.6	3435.9	3423.3	3423.3	3432.7	3423.3
12.5°	3464.4	3458.0	3464.4	3458.0	3458.0	3451.7	3420.1	3407.5	3410.6	3413.8	3401.2
15°	3439.1	3429.6	3439.1	3432.7	3435.9	3426.5	3391.6	3379.0	3379.0	3385.4	3363.2
17.5°	3401.2	3388.5	3401.2	3398.0	3394.8	3388.5	3356.9	3344.3	3341.1	3344.3	3328.4
20°	3356.9	3347.4	3356.9	3353.7	3353.7	3341.1	3309.4	3293.7	3293.7	3293.7	3277.9
22.5°	3287.3	3277.9	3287.3	3293.7	3293.7	3290.5	3262.1	3240.0	3233.6	3233.6	3214.6
25°	3208.3	3198.9	3208.3	3208.3	3205.2	3208.3	3198.9	3186.2	3176.7	3167.2	3148.2
27.5°	3132.4	3126.1	3132.4	3126.1	3132.4	3123.0	3119.8	3116.7	3104.1	3094.5	3069.2
30°	3056.6	3050.3	3056.6	3050.3	3044.0	3037.6	3021.9	3015.5	3028.1	3021.9	2980.8
32.5°	2961.8	2955.5	2961.8	2961.8	2955.5	2955.5	2930.1	2920.7	2923.9	2942.8	2904.9
35°	2863.8	2854.3	2863.8	2860.7	2863.8	2854.3	2838.5	2835.3	2822.7	2844.8	2816.4
37.5°	2750.0	2740.5	2750.0	2750.0	2750.0	2756.3	2743.7	2734.2	2715.2	2743.7	2721.6
40°	2633.0	2620.4	2633.0	2629.9	2633.0	2639.4	2633.0	2626.7	2607.7	2629.9	2610.9
42.5°	2500.3	2497.1	2500.3	2503.4	2503.4	2516.1	2525.5	2512.9	2506.6	2490.8	2503.4
45°	2358.1	2351.7	2358.1	2364.3	2367.5	2373.9	2402.3	2402.3	2392.8	2367.5	2386.5
47.5°	2206.3	2190.5	2206.3	2225.3	2225.3	2234.8	2263.2	2285.3	2269.5	2238.0	2247.4
50°	2045.1	2048.3	2045.1	2057.8	2057.8	2092.5	2114.7	2136.8	2152.6	2114.7	2070.4
52.5°	1887.1	1883.9	1887.1	1896.6	1909.2	1925.0	1962.9	1985.0	2010.3	1988.2	1918.7
55°	1729.0	1735.4	1729.0	1732.2	1738.5	1748.0	1804.9	1827.0	1874.4	1846.0	1773.3
57.5°	1571.0	1561.5	1571.0	1577.3	1580.4	1589.9	1637.4	1678.5	1706.9	1710.1	1621.5
60°	1387.6	1375.0	1387.6	1416.1	1422.4	1428.7	1473.0	1510.9	1536.2	1545.7	1454.1
62.5°	1226.4	1204.3	1226.4	1245.4	1258.0	1273.9	1305.5	1362.3	1384.5	1387.6	1258.0
65°	1055.7	1046.3	1055.7	1093.7	1096.8	1115.8	1150.6	1191.7	1239.0	1232.8	1046.3
67.5°	900.8	900.8	900.8	926.2	945.1	954.6	998.8	1017.8	1077.8	1084.2	872.4
70°	758.6	755.4	758.6	777.6	790.3	812.4	853.5	875.5	923.0	938.8	708.1
72.5°	622.7	619.5	622.7	638.5	651.2	670.1	704.9	730.2	771.3	790.3	550.0
75°	502.6	496.2	502.6	515.2	512.1	537.3	565.8	591.1	629.0	641.7	407.8
77.5°	385.6	385.6	385.6	398.3	398.3	423.6	436.2	467.8	490.0	508.9	300.3
80°	287.7	284.5	287.7	290.8	290.8	303.5	325.6	347.7	366.7	366.7	205.5
82.5°	202.3	196.0	202.3	202.3	202.3	208.7	221.3	227.6	240.2	249.8	129.6
85°	126.5	126.5	126.5	129.6	126.5	132.7	135.9	142.2	142.2	135.9	79.0
87.5°	82.2	79.0	82.2	79.0	79.0	75.8	75.8	75.8	72.7	69.6	44.3
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: P934608

CATALOG NUMBER: SQ4-FA-050U-125D-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: P934608

CATALOG NUMBER: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1
2.5°	3388.5	3369.5	3369.5	3337.9	3325.3	3315.8	3300.0	3252.6	3240.0	3227.3	3246.3
5°	3416.9	3382.2	3356.9	3300.0	3252.6	3233.6	3173.5	3059.8	2983.9	2927.0	2895.4
7.5°	3423.3	3379.0	3331.6	3243.1	3129.3	3078.7	2895.4	2686.7	2629.9	2579.3	2547.7
10°	3416.9	3366.4	3300.0	3167.2	2898.6	2810.0	2626.7	2490.8	2456.0	2446.5	2456.0
12.5°	3394.8	3347.4	3255.7	3034.5	2658.4	2598.3	2490.8	2411.8	2405.4	2421.3	2506.6
15°	3356.9	3312.6	3205.2	2857.5	2525.5	2481.4	2405.4	2377.0	2411.8	2522.5	2778.5
17.5°	3319.0	3268.3	3135.6	2683.7	2424.4	2392.8	2339.1	2396.0	2591.9	2740.5	2825.8
20°	3268.3	3208.3	3056.6	2557.2	2351.7	2323.2	2298.0	2554.0	2702.6	2756.3	2803.8
22.5°	3208.3	3145.2	2949.1	2468.7	2275.9	2253.7	2269.5	2642.6	2702.6	2740.5	2781.6
25°	3129.3	3075.6	2822.7	2399.2	2215.8	2190.5	2250.6	2633.0	2667.8	2677.3	2759.5
27.5°	3056.6	2987.0	2689.9	2335.9	2143.1	2133.6	2266.4	2591.9	2617.3	2626.7	2715.2
30°	2968.1	2863.8	2541.4	2269.5	2067.2	2064.0	2269.5	2541.4	2535.1	2560.4	2648.8
32.5°	2876.4	2680.5	2373.9	2187.3	1994.6	1991.4	2247.4	2465.5	2459.2	2494.0	2560.4
35°	2791.1	2538.2	2146.2	2092.5	1902.8	1906.0	2193.7	2377.0	2380.2	2411.8	2452.9
37.5°	2702.6	2415.0	1896.6	1988.2	1814.4	1814.4	2120.9	2294.8	2288.5	2298.0	2354.9
40°	2598.3	2222.1	1675.3	1852.3	1732.2	1722.7	2032.5	2206.3	2184.2	2181.1	2260.1
42.5°	2487.6	2010.3	1510.9	1672.1	1637.4	1624.7	1925.0	2098.9	2057.8	2067.2	2168.4
45°	2367.5	1953.5	1384.5	1413.0	1539.3	1529.9	1808.0	1975.6	1947.1	1972.4	2076.7
47.5°	2247.4	1839.6	1343.4	1172.7	1435.1	1431.9	1678.5	1855.5	1839.6	1864.9	1975.6
50°	2083.0	1713.2	1340.2	1005.2	1318.1	1330.8	1523.5	1738.5	1738.5	1760.6	1877.6
52.5°	1871.3	1558.3	1216.9	910.4	1182.2	1220.1	1387.6	1637.4	1643.7	1665.8	1770.1
55°	1678.5	1397.2	1128.5	837.6	1021.0	1103.1	1254.9	1533.1	1545.7	1567.8	1662.6
57.5°	1501.4	1163.2	1109.5	752.3	872.4	951.5	1137.9	1431.9	1438.2	1457.2	1548.9
60°	1311.8	840.8	1017.8	660.6	742.8	802.9	1030.5	1311.8	1333.9	1346.5	1425.6
62.5°	1096.8	610.1	923.0	597.4	679.6	692.3	941.9	1197.9	1226.4	1236.0	1283.3
65°	780.7	512.1	783.9	543.7	613.2	616.3	847.1	1081.0	1106.3	1122.1	1156.9
67.5°	527.9	417.2	597.4	493.1	562.6	565.8	755.4	945.1	979.9	992.6	1014.7
70°	366.7	278.1	442.5	439.4	505.8	512.1	657.4	821.8	853.5	862.9	875.5
72.5°	268.7	224.4	366.7	395.1	445.7	452.1	556.3	682.8	714.3	723.8	730.2
75°	205.5	237.0	297.1	344.6	379.3	382.5	455.1	556.3	578.4	584.8	588.0
77.5°	164.4	221.3	218.1	278.1	309.8	303.5	357.2	429.9	448.9	448.9	448.9
80°	123.3	173.8	164.4	199.1	227.6	221.3	256.0	306.6	312.9	319.2	316.1
82.5°	91.6	110.6	110.6	126.5	151.7	145.4	170.7	199.1	199.1	199.1	205.5
85°	56.9	63.2	50.5	66.4	85.4	82.2	94.8	107.5	110.6	110.6	104.3
87.5°	34.7	28.5	15.8	25.3	37.9	37.9	44.3	47.4	44.3	44.3	44.3
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: P934608

CATALOG NUMBER: SQ4-FA-050U-125D-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: P934608

CATALOG NUMBER: SQ4-FA-050U-125D-B50-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1	3341.1
2.5°	3224.2	3214.6	3227.3	3192.5	3227.3	3214.6	3224.2	3246.3	3227.3	3240.0	3252.6
5°	2829.0	2813.2	2762.7	2721.6	2762.7	2813.2	2829.0	2895.4	2927.0	2983.9	3059.8
7.5°	2528.7	2516.1	2503.4	2478.2	2503.4	2516.1	2528.7	2547.7	2579.3	2629.9	2686.7
10°	2462.4	2465.5	2484.4	2481.4	2484.4	2465.5	2462.4	2456.0	2446.5	2456.0	2490.8
12.5°	2633.0	2661.5	2765.8	2759.5	2765.8	2661.5	2633.0	2506.6	2421.3	2405.4	2411.8
15°	2829.0	2838.5	2860.7	2863.8	2860.7	2838.5	2829.0	2778.5	2522.5	2411.8	2377.0
17.5°	2848.0	2851.1	2866.9	2866.9	2866.9	2851.1	2848.0	2825.8	2740.5	2591.9	2396.0
20°	2832.2	2838.5	2870.1	2876.4	2870.1	2838.5	2832.2	2803.8	2756.3	2702.6	2554.0
22.5°	2825.8	2838.5	2863.8	2860.7	2863.8	2838.5	2825.8	2781.6	2740.5	2702.6	2642.6
25°	2794.2	2794.2	2797.4	2800.6	2797.4	2794.2	2794.2	2759.5	2677.3	2667.8	2633.0
27.5°	2727.8	2734.2	2753.2	2750.0	2753.2	2734.2	2727.8	2715.2	2626.7	2617.3	2591.9
30°	2667.8	2661.5	2645.6	2633.0	2645.6	2661.5	2667.8	2648.8	2560.4	2535.1	2541.4
32.5°	2566.6	2550.8	2535.1	2525.5	2535.1	2550.8	2566.6	2560.4	2494.0	2459.2	2465.5
35°	2446.5	2449.7	2446.5	2437.1	2446.5	2449.7	2446.5	2452.9	2411.8	2380.2	2377.0
37.5°	2361.2	2367.5	2364.3	2351.7	2364.3	2367.5	2361.2	2354.9	2298.0	2288.5	2294.8
40°	2272.7	2275.9	2272.7	2263.2	2272.7	2275.9	2272.7	2260.1	2181.1	2184.2	2206.3
42.5°	2187.3	2184.2	2174.7	2168.4	2174.7	2184.2	2187.3	2168.4	2067.2	2057.8	2098.9
45°	2089.4	2092.5	2073.6	2064.0	2073.6	2092.5	2089.4	2076.7	1972.4	1947.1	1975.6
47.5°	1991.4	1991.4	1975.6	1966.1	1975.6	1991.4	1991.4	1975.6	1864.9	1839.6	1855.5
50°	1887.1	1883.9	1861.7	1858.7	1861.7	1883.9	1887.1	1877.6	1760.6	1738.5	1738.5
52.5°	1766.9	1766.9	1770.1	1776.5	1770.1	1766.9	1766.9	1770.1	1665.8	1643.7	1637.4
55°	1662.6	1665.8	1687.9	1694.3	1687.9	1665.8	1662.6	1662.6	1567.8	1545.7	1533.1
57.5°	1555.2	1555.2	1571.0	1571.0	1571.0	1555.2	1555.2	1548.9	1457.2	1438.2	1431.9
60°	1431.9	1438.2	1450.9	1447.7	1450.9	1438.2	1431.9	1425.6	1346.5	1333.9	1311.8
62.5°	1302.3	1308.6	1311.8	1305.5	1311.8	1308.6	1302.3	1283.3	1236.0	1226.4	1197.9
65°	1166.4	1172.7	1175.9	1169.6	1175.9	1172.7	1166.4	1156.9	1122.1	1106.3	1081.0
67.5°	1027.3	1024.1	1021.0	1033.7	1021.0	1024.1	1027.3	1014.7	992.6	979.9	945.1
70°	885.1	885.1	881.9	888.2	881.9	885.1	885.1	875.5	862.9	853.5	821.8
72.5°	733.4	730.2	742.8	733.4	742.8	730.2	733.4	730.2	723.8	714.3	682.8
75°	584.8	591.1	584.8	594.2	584.8	591.1	584.8	588.0	584.8	578.4	556.3
77.5°	445.7	452.1	445.7	445.7	445.7	452.1	445.7	448.9	448.9	448.9	429.9
80°	316.1	312.9	312.9	309.8	312.9	312.9	316.1	316.1	319.2	312.9	306.6
82.5°	202.3	199.1	199.1	205.5	199.1	199.1	202.3	205.5	199.1	199.1	199.1
85°	110.6	113.8	107.5	107.5	107.5	113.8	110.6	104.3	110.6	110.6	107.5
87.5°	41.1	37.9	37.9	37.9	37.9	37.9	41.1	44.3	44.3	44.3	47.4
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

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3341.1	3341.1	3341.1	3341.1	3341.1
2.5°	3300.0	3315.8	3325.3	3337.9	3369.5
5°	3173.5	3233.6	3252.6	3300.0	3356.9
7.5°	2895.4	3078.7	3129.3	3243.1	3331.6
10°	2626.7	2810.0	2898.6	3167.2	3300.0
12.5°	2490.8	2598.3	2658.4	3034.5	3255.7
15°	2405.4	2481.4	2525.5	2857.5	3205.2
17.5°	2339.1	2392.8	2424.4	2683.7	3135.6
20°	2298.0	2323.2	2351.7	2557.2	3056.6
22.5°	2269.5	2253.7	2275.9	2468.7	2949.1
25°	2250.6	2190.5	2215.8	2399.2	2822.7
27.5°	2266.4	2133.6	2143.1	2335.9	2689.9
30°	2269.5	2064.0	2067.2	2269.5	2541.4
32.5°	2247.4	1991.4	1994.6	2187.3	2373.9
35°	2193.7	1906.0	1902.8	2092.5	2146.2
37.5°	2120.9	1814.4	1814.4	1988.2	1896.6
40°	2032.5	1722.7	1732.2	1852.3	1675.3
42.5°	1925.0	1624.7	1637.4	1672.1	1510.9
45°	1808.0	1529.9	1539.3	1413.0	1384.5
47.5°	1678.5	1431.9	1435.1	1172.7	1343.4
50°	1523.5	1330.8	1318.1	1005.2	1340.2
52.5°	1387.6	1220.1	1182.2	910.4	1216.9
55°	1254.9	1103.1	1021.0	837.6	1128.5
57.5°	1137.9	951.5	872.4	752.3	1109.5
60°	1030.5	802.9	742.8	660.6	1017.8
62.5°	941.9	692.3	679.6	597.4	923.0
65°	847.1	616.3	613.2	543.7	783.9
67.5°	755.4	565.8	562.6	493.1	597.4
70°	657.4	512.1	505.8	439.4	442.5
72.5°	556.3	452.1	445.7	395.1	366.7
75°	455.1	382.5	379.3	344.6	297.1
77.5°	357.2	303.5	309.8	278.1	218.1
80°	256.0	221.3	227.6	199.1	164.4
82.5°	170.7	145.4	151.7	126.5	110.6
85°	94.8	82.2	85.4	66.4	50.5
87.5°	44.3	37.9	37.9	25.3	15.8
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



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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)