

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: P934201

Luminaire Tested: SQ4-FA-025U-125D-B40-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934201
REPORT IS A COMBINATION OF REPORTS P933685 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-B40-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

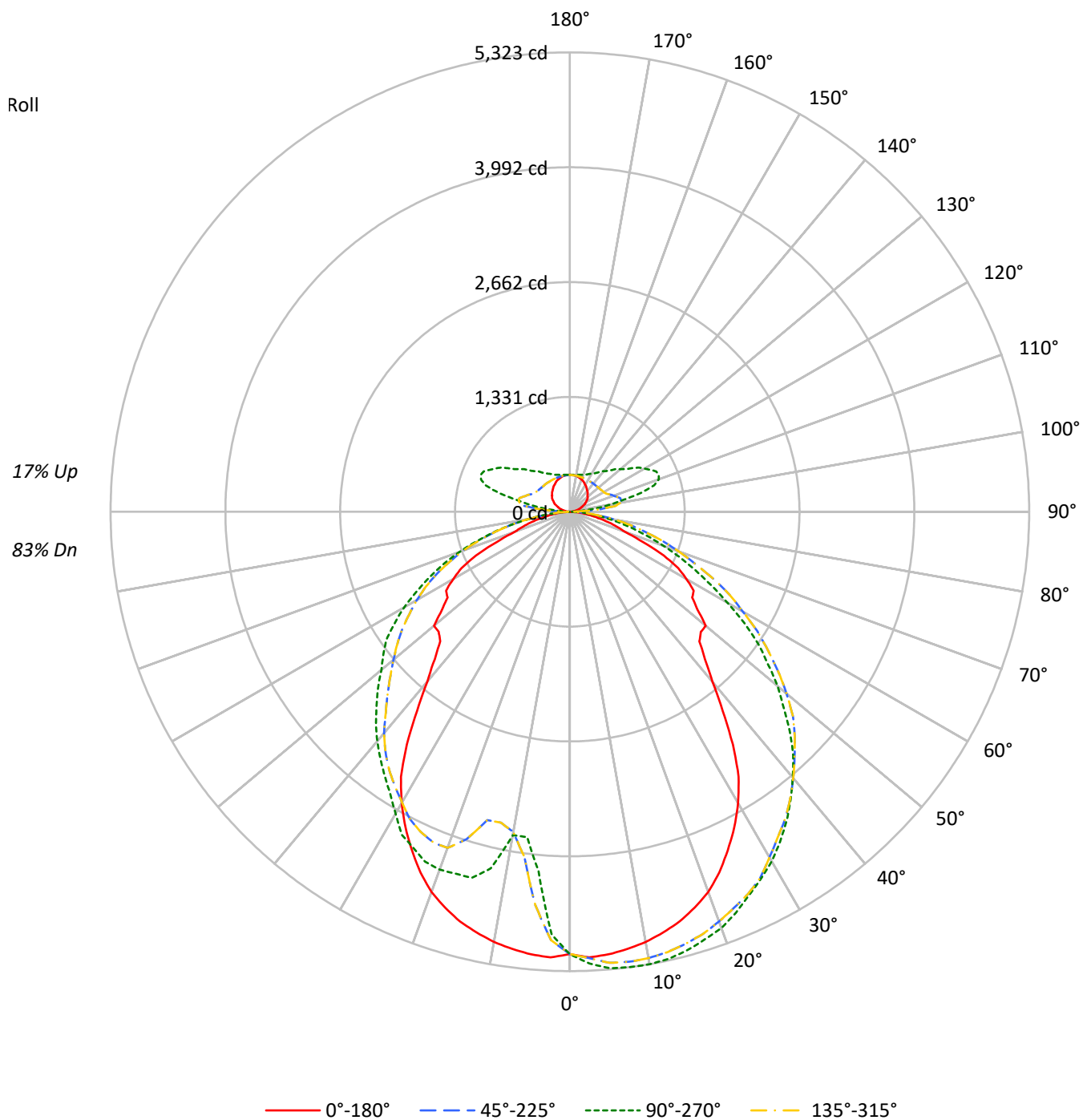
Lumens per Lamp: N/A
Luminaire Lumens: 16060.2 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 148.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83			
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	70			
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	59			
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	50			
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	43			
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	37			
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	32			
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	29			
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	26			
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	23			
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15850	15850	15850	15850
5°	15975	16000	15975	12581
10°	15874	15761	15874	11268
15°	15707	15419	15707	12876
20°	15385	15015	15385	12902
25°	14718	14425	14718	12629
30°	13855	13935	13855	12029
35°	12358	13316	12358	11369
40°	10303	12586	10303	10870
45°	9212	11732	9212	10297
50°	9794	10714	9794	9722
55°	9223	9617	9223	9390
60°	9520	8168	9520	8600
65°	8645	6752	8645	7547
70°	6000	5381	6000	6326
75°	5282	3977	5282	4763
80°	4288	2629	4288	2863
85°	2511	1393	2511	1184

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 14110 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.6	2.9
10°-20°	1313.4	8.2
20°-30°	2030.3	12.6
30°-40°	2423.7	15.1
40°-50°	2437.9	15.2
50°-60°	2121.3	13.2
60°-70°	1504.0	9.4
70°-80°	795.7	5.0
80°-90°	199.8	1.2
90°-100°	208.4	1.3
100°-110°	547.9	3.4
110°-120°	568.1	3.5
120°-130°	455.7	2.8
130°-140°	357.6	2.2
140°-150°	274.5	1.7
150°-160°	197.7	1.2
160°-170°	120.9	0.8
170°-180°	40.9	0.3
0°-30°	3806.2	23.7
0°-40°	6229.9	38.8
0°-60°	10789.0	67.2
0°-90°	13288.6	82.7
90°-120°	1324.5	8.2
90°-150°	2412.2	15.0
90°-180°	2772.0	17.3
0°-180°	16060.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5124	5124	5124	5124	5124	
5°	5149	5309	5149	4174	5149	488
15°	4916	5260	4916	4392	4916	1383
25°	4329	4906	4329	4296	4329	1988
35°	3292	4378	3292	3738	3292	2037
45°	2123	3607	2123	3166	2123	1701
55°	1731	2662	1731	2599	1731	1590
65°	1202	1605	1202	1794	1202	1149
75°	456	761	456	912	456	479
85°	78	194	78	165	78	105
90°	3	11	3	11	3	6
95°	28	126	28	126	28	31
105°	99	858	99	858	99	105
115°	175	1105	175	1105	175	173
125°	244	880	244	880	244	217
135°	291	683	291	683	291	225
145°	337	554	337	554	337	211
155°	381	477	381	477	381	175
165°	411	444	411	444	411	116
175°	428	430	428	430	428	41
180°	428	428	428	428	428	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5
2.5°	5168.2	5168.2	5197.2	5206.9	5206.9	5192.3	5177.8	5192.3	5236.0	5250.6	5245.7
5°	5148.7	5187.6	5240.8	5250.6	5260.2	5255.4	5245.7	5255.4	5303.9	5313.6	5318.4
7.5°	5109.9	5182.7	5250.6	5265.1	5279.6	5265.1	5260.2	5270.0	5318.4	5328.1	5328.1
10°	5061.5	5163.3	5240.8	5250.6	5265.1	5250.6	5250.6	5270.0	5318.4	5328.1	5333.0
12.5°	4993.6	5134.2	5206.9	5216.6	5236.0	5231.1	5226.3	5245.7	5294.1	5303.9	5303.9
15°	4916.1	5080.9	5148.7	5158.4	5192.3	5182.7	5182.7	5202.1	5255.4	5270.0	5265.1
17.5°	4809.4	5013.0	5090.5	5105.1	5129.3	5124.5	5129.3	5148.7	5197.2	5206.9	5211.7
20°	4688.2	4920.8	5013.0	5027.5	5051.8	5051.8	5051.8	5076.0	5124.5	5143.9	5143.9
22.5°	4523.4	4823.9	4920.8	4930.6	4959.7	4959.7	4969.3	5003.2	5046.9	5051.8	5051.8
25°	4329.4	4717.2	4799.6	4828.8	4857.9	4872.4	4886.9	4906.3	4920.8	4916.1	4920.8
27.5°	4125.8	4581.5	4688.2	4707.6	4746.3	4760.9	4780.3	4785.1	4790.0	4804.5	4794.9
30°	3897.9	4392.4	4552.4	4571.8	4634.8	4644.5	4625.2	4634.8	4659.1	4668.8	4678.4
32.5°	3640.9	4111.3	4411.8	4455.5	4513.6	4484.6	4479.7	4494.2	4533.0	4533.0	4542.7
35°	3291.9	3893.1	4280.9	4319.7	4363.3	4329.4	4348.8	4353.7	4377.9	4392.4	4387.6
37.5°	2908.9	3704.0	4145.2	4174.3	4208.2	4164.6	4193.7	4208.2	4227.6	4217.9	4217.9
40°	2569.5	3408.2	3985.2	4004.6	4033.6	3999.7	4028.9	4038.5	4048.2	4038.5	4033.6
42.5°	2317.4	3083.4	3815.5	3839.8	3820.4	3844.5	3854.3	3873.7	3859.2	3839.8	3839.8
45°	2123.4	2996.1	3631.3	3660.3	3631.3	3670.1	3684.6	3684.6	3640.9	3631.3	3626.4
47.5°	2060.5	2821.6	3447.1	3447.1	3432.5	3481.0	3505.2	3471.2	3427.7	3413.1	3413.1
50°	2055.6	2627.7	3195.0	3175.6	3243.4	3301.6	3277.4	3243.4	3209.5	3156.2	3156.2
52.5°	1866.5	2390.2	2870.1	2942.8	3049.5	3083.4	3044.6	3010.7	2952.5	2928.3	2908.9
55°	1730.7	2142.9	2574.4	2719.8	2831.3	2874.9	2802.3	2768.3	2681.1	2666.5	2656.8
57.5°	1701.7	1784.1	2302.9	2487.1	2622.8	2618.0	2574.4	2511.4	2438.6	2424.1	2419.2
60°	1561.1	1289.6	2012.0	2230.1	2370.8	2356.2	2317.4	2259.2	2191.3	2181.7	2172.0
62.5°	1415.7	935.7	1682.3	1929.6	2128.3	2123.4	2089.5	2002.3	1953.8	1929.6	1910.2
65°	1202.3	785.4	1197.5	1604.8	1890.8	1900.4	1827.8	1764.7	1711.4	1682.3	1677.5
67.5°	916.3	639.9	809.6	1338.1	1662.9	1653.2	1561.1	1532.0	1464.1	1449.6	1420.5
70°	678.7	426.6	562.4	1086.0	1439.9	1415.7	1342.9	1309.0	1246.0	1212.0	1192.6
72.5°	562.4	344.2	412.1	843.6	1212.0	1183.0	1119.9	1081.2	1027.8	998.7	979.4
75°	455.7	363.6	315.2	625.4	984.1	964.7	906.6	867.8	824.2	785.4	790.3
77.5°	334.5	339.4	252.1	460.6	780.5	751.5	717.5	669.1	649.7	610.9	610.9
80°	252.1	266.6	189.1	315.2	562.4	562.4	533.3	499.4	465.5	446.0	446.0
82.5°	169.7	169.7	140.6	198.7	383.1	368.4	349.1	339.4	320.0	310.3	310.3
85°	77.5	96.9	87.3	121.2	208.5	218.1	218.1	208.5	203.6	194.0	198.7
87.5°	24.3	43.6	53.3	67.9	106.7	111.5	116.3	116.3	116.3	121.2	121.2
90°	2.9	5.2	7.4	8.0	12.6	18.7	21.8	19.4	14.5	10.9	10.9
92.5°	11.5	30.9	50.5	55.4	77.8	107.8	122.8	107.6	77.3	54.5	52.3
95°	27.5	63.2	98.9	107.9	191.6	303.2	359.0	320.3	243.0	185.1	178.5
97.5°	47.7	79.2	110.7	118.5	258.0	444.2	537.2	512.7	463.9	427.3	414.8
100°	63.1	91.7	120.2	127.4	282.3	488.8	592.0	593.8	597.4	600.0	585.1
102.5°	76.3	102.9	129.6	136.3	293.4	502.8	607.5	638.6	700.8	747.5	734.7
105°	98.7	121.3	143.8	149.5	301.6	504.3	605.8	675.5	815.0	919.7	912.8
107.5°	121.7	142.7	163.8	169.0	303.1	481.9	571.3	668.6	863.2	1009.2	1010.9
110°	137.1	156.1	175.1	179.9	300.8	462.0	542.6	651.4	869.0	1032.2	1039.3

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	152.4	170.5	188.6	193.1	300.9	444.6	516.6	627.9	850.5	1017.6	1028.5
115°	175.3	192.1	208.8	213.0	303.7	424.7	485.2	592.5	807.0	967.9	983.1
117.5°	198.0	213.2	228.3	232.2	309.3	412.3	463.7	560.6	754.2	899.3	916.2
120°	211.2	225.5	239.8	243.3	313.9	408.0	455.1	543.5	720.5	853.1	869.5
122.5°	224.1	238.6	252.9	256.5	320.5	405.8	448.5	528.1	687.4	806.9	823.0
125°	243.9	257.1	270.3	273.5	329.5	404.1	441.3	508.9	644.2	745.8	760.7
127.5°	260.0	273.2	286.5	289.8	338.4	403.0	435.3	493.4	609.6	696.7	709.3
130°	268.5	282.9	297.2	300.7	344.9	403.6	433.0	484.8	588.2	665.7	677.4
132.5°	277.5	291.8	306.1	309.6	350.1	404.1	431.0	477.3	569.9	639.4	649.8
135°	290.7	303.7	316.7	319.9	355.8	403.7	427.6	466.3	543.9	602.0	611.0
137.5°	304.2	317.1	329.9	333.1	364.4	406.2	427.0	459.7	525.2	574.4	581.8
140°	315.3	327.2	339.1	342.1	369.7	406.5	425.0	453.2	509.9	552.4	559.2
142.5°	323.9	334.9	345.9	348.7	374.1	408.0	425.0	449.8	499.6	536.9	542.8
145°	337.2	346.8	356.3	358.7	379.8	408.0	422.1	442.5	483.1	513.6	518.1
147.5°	350.4	359.7	369.0	371.3	388.2	410.8	422.1	438.2	470.1	494.1	497.8
150°	359.0	367.4	375.8	377.9	392.6	412.3	422.1	435.7	462.7	482.9	485.9
152.5°	367.9	374.3	380.6	382.2	395.5	413.2	422.1	433.7	456.8	474.1	476.4
155°	381.0	385.7	390.5	391.6	401.8	415.3	422.1	431.3	449.7	463.5	465.0
157.5°	390.8	395.4	400.0	401.2	408.2	417.4	422.1	429.3	443.5	454.2	455.2
160°	397.5	401.0	404.6	405.5	411.0	418.4	422.1	428.2	440.4	449.6	450.2
162.5°	404.1	406.7	409.4	410.1	414.1	419.4	422.1	427.3	437.6	445.3	445.9
165°	411.2	413.6	416.1	416.7	418.5	420.9	422.1	425.8	433.2	438.7	439.3
167.5°	417.8	419.0	420.1	420.4	421.9	423.9	425.0	427.4	432.2	435.9	436.1
170°	422.1	423.3	424.4	424.7	424.8	424.9	425.0	427.4	432.2	435.9	435.9
172.5°	424.4	424.7	424.9	425.0	425.0	425.0	425.0	426.9	430.7	433.6	433.4
175°	427.6	427.6	427.6	427.6	426.7	425.5	425.0	426.2	428.6	430.4	430.4
177.5°	427.6	427.6	427.6	427.6	426.9	426.0	425.5	426.5	428.4	429.8	429.6
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5
2.5°	5255.4	5240.8	5255.4	5245.7	5250.6	5236.0	5192.3	5177.8	5192.3	5206.9	5206.9
5°	5318.4	5308.7	5318.4	5318.4	5313.6	5303.9	5255.4	5245.7	5255.4	5260.2	5250.6
7.5°	5337.8	5323.3	5337.8	5328.1	5328.1	5318.4	5270.0	5260.2	5265.1	5279.6	5265.1
10°	5337.8	5323.3	5337.8	5333.0	5328.1	5318.4	5270.0	5250.6	5250.6	5265.1	5250.6
12.5°	5313.6	5303.9	5313.6	5303.9	5303.9	5294.1	5245.7	5226.3	5231.1	5236.0	5216.6
15°	5274.8	5260.2	5274.8	5265.1	5270.0	5255.4	5202.1	5182.7	5182.7	5192.3	5158.4
17.5°	5216.6	5197.2	5216.6	5211.7	5206.9	5197.2	5148.7	5129.3	5124.5	5129.3	5105.1
20°	5148.7	5134.2	5148.7	5143.9	5143.9	5124.5	5076.0	5051.8	5051.8	5051.8	5027.5
22.5°	5042.1	5027.5	5042.1	5051.8	5051.8	5046.9	5003.2	4969.3	4959.7	4959.7	4930.6
25°	4920.8	4906.3	4920.8	4920.8	4916.1	4920.8	4906.3	4886.9	4872.4	4857.9	4828.8
27.5°	4804.5	4794.9	4804.5	4794.9	4804.5	4790.0	4785.1	4780.3	4760.9	4746.3	4707.6
30°	4688.2	4678.4	4688.2	4678.4	4668.8	4659.1	4634.8	4625.2	4644.5	4634.8	4571.8
32.5°	4542.7	4533.0	4542.7	4542.7	4533.0	4533.0	4494.2	4479.7	4484.6	4513.6	4455.5
35°	4392.4	4377.9	4392.4	4387.6	4392.4	4377.9	4353.7	4348.8	4329.4	4363.3	4319.7
37.5°	4217.9	4203.3	4217.9	4217.9	4217.9	4227.6	4208.2	4193.7	4164.6	4208.2	4174.3
40°	4038.5	4019.1	4038.5	4033.6	4038.5	4048.2	4038.5	4028.9	3999.7	4033.6	4004.6
42.5°	3834.9	3830.0	3834.9	3839.8	3839.8	3859.2	3873.7	3854.3	3844.5	3820.4	3839.8
45°	3616.7	3607.0	3616.7	3626.4	3631.3	3640.9	3684.6	3684.6	3670.1	3631.3	3660.3
47.5°	3384.0	3359.8	3384.0	3413.1	3413.1	3427.7	3471.2	3505.2	3481.0	3432.5	3447.1
50°	3136.8	3141.6	3136.8	3156.2	3156.2	3209.5	3243.4	3277.4	3301.6	3243.4	3175.6
52.5°	2894.3	2889.5	2894.3	2908.9	2928.3	2952.5	3010.7	3044.6	3083.4	3049.5	2942.8
55°	2651.9	2661.7	2651.9	2656.8	2666.5	2681.1	2768.3	2802.3	2874.9	2831.3	2719.8
57.5°	2409.6	2394.9	2409.6	2419.2	2424.1	2438.6	2511.4	2574.4	2618.0	2622.8	2487.1
60°	2128.3	2108.9	2128.3	2172.0	2181.7	2191.3	2259.2	2317.4	2356.2	2370.8	2230.1
62.5°	1881.1	1847.2	1881.1	1910.2	1929.6	1953.8	2002.3	2089.5	2123.4	2128.3	1929.6
65°	1619.3	1604.8	1619.3	1677.5	1682.3	1711.4	1764.7	1827.8	1900.4	1890.8	1604.8
67.5°	1381.7	1381.7	1381.7	1420.5	1449.6	1464.1	1532.0	1561.1	1653.2	1662.9	1338.1
70°	1163.6	1158.7	1163.6	1192.6	1212.0	1246.0	1309.0	1342.9	1415.7	1439.9	1086.0
72.5°	955.1	950.2	955.1	979.4	998.7	1027.8	1081.2	1119.9	1183.0	1212.0	843.6
75°	770.9	761.1	770.9	790.3	785.4	824.2	867.8	906.6	964.7	984.1	625.4
77.5°	591.4	591.4	591.4	610.9	610.9	649.7	669.1	717.5	751.5	780.5	460.6
80°	441.2	436.3	441.2	446.0	446.0	465.5	499.4	533.3	562.4	562.4	315.2
82.5°	310.3	300.5	310.3	310.3	310.3	320.0	339.4	349.1	368.4	383.1	198.7
85°	194.0	194.0	194.0	198.7	194.0	203.6	208.5	218.1	218.1	208.5	121.2
87.5°	126.1	121.2	126.1	121.2	121.2	116.3	116.3	116.3	111.5	106.7	67.9
90°	10.9	10.9	10.9	10.9	10.9	14.5	19.4	21.8	18.7	12.6	8.0
92.5°	43.7	35.0	43.7	52.3	54.5	77.3	107.6	122.8	107.8	77.8	55.4
95°	152.2	126.0	152.2	178.5	185.1	243.0	320.3	359.0	303.2	191.6	107.9
97.5°	364.8	314.8	364.8	414.8	427.3	463.9	512.7	537.2	444.2	258.0	118.5
100°	525.6	466.0	525.6	585.1	600.0	597.4	593.8	592.0	488.8	282.3	127.4
102.5°	683.7	632.7	683.7	734.7	747.5	700.8	638.6	607.5	502.8	293.4	136.3
105°	885.4	858.0	885.4	912.8	919.7	815.0	675.5	605.8	504.3	301.6	149.5
107.5°	1017.6	1024.1	1017.6	1010.9	1009.2	863.2	668.6	571.3	481.9	303.1	169.0
110°	1067.9	1096.4	1067.9	1039.3	1032.2	869.0	651.4	542.6	462.0	300.8	179.9

TEST NUMBER: P934201

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1072.4	1116.2	1072.4	1028.5	1017.6	850.5	627.9	516.6	444.6	300.9	193.1
115°	1043.9	1104.7	1043.9	983.1	967.9	807.0	592.5	485.2	424.7	303.7	213.0
117.5°	983.6	1051.1	983.6	916.2	899.3	754.2	560.6	463.7	412.3	309.3	232.2
120°	935.0	1000.6	935.0	869.5	853.1	720.5	543.5	455.1	408.0	313.9	243.3
122.5°	887.8	952.4	887.8	823.0	806.9	687.4	528.1	448.5	405.8	320.5	256.5
125°	820.2	879.7	820.2	760.7	745.8	644.2	508.9	441.3	404.1	329.5	273.5
127.5°	759.5	809.7	759.5	709.3	696.7	609.6	493.4	435.3	403.0	338.4	289.8
130°	723.8	770.2	723.8	677.4	665.7	588.2	484.8	433.0	403.6	344.9	300.7
132.5°	691.3	732.9	691.3	649.8	639.4	569.9	477.3	431.0	404.1	350.1	309.6
135°	646.8	682.6	646.8	611.0	602.0	543.9	466.3	427.6	403.7	355.8	319.9
137.5°	611.1	640.5	611.1	581.8	574.4	525.2	459.7	427.0	406.2	364.4	333.1
140°	586.7	614.1	586.7	559.2	552.4	509.9	453.2	425.0	406.5	369.7	342.1
142.5°	566.4	590.0	566.4	542.8	536.9	499.6	449.8	425.0	408.0	374.1	348.7
145°	535.9	553.8	535.9	518.1	513.6	483.1	442.5	422.1	408.0	379.8	358.7
147.5°	512.6	527.4	512.6	497.8	494.1	470.1	438.2	422.1	410.8	388.2	371.3
150°	497.9	509.9	497.9	485.9	482.9	462.7	435.7	422.1	412.3	392.6	377.9
152.5°	485.3	494.4	485.3	476.4	474.1	456.8	433.7	422.1	413.2	395.5	382.2
155°	470.9	476.9	470.9	465.0	463.5	449.7	431.3	422.1	415.3	401.8	391.6
157.5°	459.5	463.7	459.5	455.2	454.2	443.5	429.3	422.1	417.4	408.2	401.2
160°	452.7	455.1	452.7	450.2	449.6	440.4	428.2	422.1	418.4	411.0	405.5
162.5°	448.2	450.5	448.2	445.9	445.3	437.6	427.3	422.1	419.4	414.1	410.1
165°	441.8	444.2	441.8	439.3	438.7	433.2	425.8	422.1	420.9	418.5	416.7
167.5°	437.1	438.2	437.1	436.1	435.9	432.2	427.4	425.0	423.9	421.9	420.4
170°	435.9	435.9	435.9	435.9	435.9	432.2	427.4	425.0	424.9	424.8	424.7
172.5°	432.4	431.6	432.4	433.4	433.6	430.7	426.9	425.0	425.0	425.0	425.0
175°	430.4	430.4	430.4	430.4	430.4	428.6	426.2	425.0	425.5	426.7	427.6
177.5°	428.6	427.6	428.6	429.6	429.8	428.4	426.5	425.5	426.0	426.9	427.6
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6

TEST NUMBER: P934201

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5
2.5°	5197.2	5168.2	5168.2	5119.7	5100.3	5085.8	5061.5	4988.7	4969.3	4950.0	4979.1
5°	5240.8	5187.6	5148.7	5061.5	4988.7	4959.7	4867.5	4693.0	4576.6	4489.4	4440.9
7.5°	5250.6	5182.7	5109.9	4974.2	4799.6	4722.1	4440.9	4120.9	4033.6	3956.1	3907.6
10°	5240.8	5163.3	5061.5	4857.9	4445.7	4310.0	4028.9	3820.4	3767.0	3752.5	3767.0
12.5°	5206.9	5134.2	4993.6	4654.2	4077.3	3985.2	3820.4	3699.1	3689.5	3713.7	3844.5
15°	5148.7	5080.9	4916.1	4382.7	3873.7	3805.8	3689.5	3645.8	3699.1	3868.8	4261.5
17.5°	5090.5	5013.0	4809.4	4116.0	3718.6	3670.1	3587.6	3674.9	3975.5	4203.3	4334.3
20°	5013.0	4920.8	4688.2	3922.2	3607.0	3563.4	3524.6	3917.3	4145.2	4227.6	4300.3
22.5°	4920.8	4823.9	4523.4	3786.4	3490.7	3456.7	3481.0	4053.0	4145.2	4203.3	4266.4
25°	4799.6	4717.2	4329.4	3679.7	3398.6	3359.8	3451.8	4038.5	4091.8	4106.4	4232.5
27.5°	4688.2	4581.5	4125.8	3582.8	3287.0	3272.5	3476.1	3975.5	4014.2	4028.9	4164.6
30°	4552.4	4392.4	3897.9	3481.0	3170.7	3165.8	3481.0	3897.9	3888.2	3927.0	4062.8
32.5°	4411.8	4111.3	3640.9	3354.9	3059.2	3054.4	3447.1	3781.5	3771.9	3825.2	3927.0
35°	4280.9	3893.1	3291.9	3209.5	2918.6	2923.4	3364.7	3645.8	3650.7	3699.1	3762.1
37.5°	4145.2	3704.0	2908.9	3049.5	2782.9	2782.9	3253.1	3519.7	3510.1	3524.6	3611.9
40°	3985.2	3408.2	2569.5	2841.0	2656.8	2642.2	3117.4	3384.0	3350.0	3345.3	3466.5
42.5°	3815.5	3083.4	2317.4	2564.7	2511.4	2492.0	2952.5	3219.2	3156.2	3170.7	3325.8
45°	3631.3	2996.1	2123.4	2167.1	2361.0	2346.5	2773.1	3030.1	2986.5	3025.2	3185.2
47.5°	3447.1	2821.6	2060.5	1798.6	2201.1	2196.2	2574.4	2845.9	2821.6	2860.4	3030.1
50°	3195.0	2627.7	2055.6	1541.8	2021.6	2041.0	2336.8	2666.5	2666.5	2700.5	2879.8
52.5°	2870.1	2390.2	1866.5	1396.3	1813.2	1871.4	2128.3	2511.4	2521.0	2555.0	2715.0
55°	2574.4	2142.9	1730.7	1284.8	1565.9	1692.0	1924.7	2351.3	2370.8	2404.7	2550.1
57.5°	2302.9	1784.1	1701.7	1153.8	1338.1	1459.3	1745.4	2196.2	2206.0	2235.0	2375.6
60°	2012.0	1289.6	1561.1	1013.3	1139.3	1231.5	1580.5	2012.0	2045.9	2065.3	2186.5
62.5°	1682.3	935.7	1415.7	916.3	1042.4	1061.8	1444.7	1837.4	1881.1	1895.6	1968.4
65°	1197.5	785.4	1202.3	833.9	940.6	945.4	1299.3	1658.1	1696.8	1721.1	1774.4
67.5°	809.6	639.9	916.3	756.3	862.9	867.8	1158.7	1449.6	1502.9	1522.4	1556.3
70°	562.4	426.6	678.7	673.8	775.7	785.4	1008.4	1260.5	1309.0	1323.5	1342.9
72.5°	412.1	344.2	562.4	606.0	683.6	693.3	853.3	1047.2	1095.7	1110.2	1119.9
75°	315.2	363.6	455.7	528.4	581.8	586.7	698.1	853.3	887.2	896.9	901.7
77.5°	252.1	339.4	334.5	426.6	475.1	465.5	547.9	659.3	688.5	688.5	688.5
80°	189.1	266.6	252.1	305.4	349.1	339.4	392.7	470.2	480.0	489.6	484.9
82.5°	140.6	169.7	169.7	194.0	232.7	223.0	261.8	305.4	305.4	305.4	315.2
85°	87.3	96.9	77.5	101.8	130.9	126.1	145.4	164.8	169.7	169.7	160.0
87.5°	53.3	43.6	24.3	38.8	58.2	58.2	67.9	72.7	67.9	67.9	67.9
90°	7.4	5.2	2.9	5.2	7.4	8.0	12.6	18.7	21.8	19.4	14.5
92.5°	50.5	30.9	11.5	30.9	50.5	55.4	77.8	107.8	122.8	107.6	77.3
95°	98.9	63.2	27.5	63.2	98.9	107.9	191.6	303.2	359.0	320.3	243.0
97.5°	110.7	79.2	47.7	79.2	110.7	118.5	258.0	444.2	537.2	512.7	463.9
100°	120.2	91.7	63.1	91.7	120.2	127.4	282.3	488.8	592.0	593.8	597.4
102.5°	129.6	102.9	76.3	102.9	129.6	136.3	293.4	502.8	607.5	638.6	700.8
105°	143.8	121.3	98.7	121.3	143.8	149.5	301.6	504.3	605.8	675.5	815.0
107.5°	163.8	142.7	121.7	142.7	163.8	169.0	303.1	481.9	571.3	668.6	863.2
110°	175.1	156.1	137.1	156.1	175.1	179.9	300.8	462.0	542.6	651.4	869.0

TEST NUMBER: P934201

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	188.6	170.5	152.4	170.5	188.6	193.1	300.9	444.6	516.6	627.9	850.5
115°	208.8	192.1	175.3	192.1	208.8	213.0	303.7	424.7	485.2	592.5	807.0
117.5°	228.3	213.2	198.0	213.2	228.3	232.2	309.3	412.3	463.7	560.6	754.2
120°	239.8	225.5	211.2	225.5	239.8	243.3	313.9	408.0	455.1	543.5	720.5
122.5°	252.9	238.6	224.1	238.6	252.9	256.5	320.5	405.8	448.5	528.1	687.4
125°	270.3	257.1	243.9	257.1	270.3	273.5	329.5	404.1	441.3	508.9	644.2
127.5°	286.5	273.2	260.0	273.2	286.5	289.8	338.4	403.0	435.3	493.4	609.6
130°	297.2	282.9	268.5	282.9	297.2	300.7	344.9	403.6	433.0	484.8	588.2
132.5°	306.1	291.8	277.5	291.8	306.1	309.6	350.1	404.1	431.0	477.3	569.9
135°	316.7	303.7	290.7	303.7	316.7	319.9	355.8	403.7	427.6	466.3	543.9
137.5°	329.9	317.1	304.2	317.1	329.9	333.1	364.4	406.2	427.0	459.7	525.2
140°	339.1	327.2	315.3	327.2	339.1	342.1	369.7	406.5	425.0	453.2	509.9
142.5°	345.9	334.9	323.9	334.9	345.9	348.7	374.1	408.0	425.0	449.8	499.6
145°	356.3	346.8	337.2	346.8	356.3	358.7	379.8	408.0	422.1	442.5	483.1
147.5°	369.0	359.7	350.4	359.7	369.0	371.3	388.2	410.8	422.1	438.2	470.1
150°	375.8	367.4	359.0	367.4	375.8	377.9	392.6	412.3	422.1	435.7	462.7
152.5°	380.6	374.3	367.9	374.3	380.6	382.2	395.5	413.2	422.1	433.7	456.8
155°	390.5	385.7	381.0	385.7	390.5	391.6	401.8	415.3	422.1	431.3	449.7
157.5°	400.0	395.4	390.8	395.4	400.0	401.2	408.2	417.4	422.1	429.3	443.5
160°	404.6	401.0	397.5	401.0	404.6	405.5	411.0	418.4	422.1	428.2	440.4
162.5°	409.4	406.7	404.1	406.7	409.4	410.1	414.1	419.4	422.1	427.3	437.6
165°	416.1	413.6	411.2	413.6	416.1	416.7	418.5	420.9	422.1	425.8	433.2
167.5°	420.1	419.0	417.8	419.0	420.1	420.4	421.9	423.9	425.0	427.4	432.2
170°	424.4	423.3	422.1	423.3	424.4	424.7	424.8	424.9	425.0	427.4	432.2
172.5°	424.9	424.7	424.4	424.7	424.9	425.0	425.0	425.0	425.0	426.9	430.7
175°	427.6	427.6	427.6	427.6	427.6	427.6	426.7	425.5	425.0	426.2	428.6
177.5°	427.6	427.6	427.6	427.6	427.6	427.6	426.9	426.0	425.5	426.5	428.4
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6

TEST NUMBER: P934201

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5	5124.5
2.5°	4945.1	4930.6	4950.0	4896.7	4950.0	4930.6	4945.1	4979.1	4950.0	4969.3	4988.7
5°	4339.1	4314.9	4237.2	4174.3	4237.2	4314.9	4339.1	4440.9	4489.4	4576.6	4693.0
7.5°	3878.5	3859.2	3839.8	3801.0	3839.8	3859.2	3878.5	3907.6	3956.1	4033.6	4120.9
10°	3776.7	3781.5	3810.6	3805.8	3810.6	3781.5	3776.7	3767.0	3752.5	3767.0	3820.4
12.5°	4038.5	4082.1	4242.1	4232.5	4242.1	4082.1	4038.5	3844.5	3713.7	3689.5	3699.1
15°	4339.1	4353.7	4387.6	4392.4	4387.6	4353.7	4339.1	4261.5	3868.8	3699.1	3645.8
17.5°	4368.2	4373.0	4397.3	4397.3	4397.3	4373.0	4368.2	4334.3	4203.3	3975.5	3674.9
20°	4343.9	4353.7	4402.2	4411.8	4402.2	4353.7	4343.9	4300.3	4227.6	4145.2	3917.3
22.5°	4334.3	4353.7	4392.4	4387.6	4392.4	4353.7	4334.3	4266.4	4203.3	4145.2	4053.0
25°	4285.8	4285.8	4290.6	4295.5	4290.6	4285.8	4285.8	4232.5	4106.4	4091.8	4038.5
27.5°	4184.0	4193.7	4222.7	4217.9	4222.7	4193.7	4184.0	4164.6	4028.9	4014.2	3975.5
30°	4091.8	4082.1	4057.9	4038.5	4057.9	4082.1	4091.8	4062.8	3927.0	3888.2	3897.9
32.5°	3936.7	3912.4	3888.2	3873.7	3888.2	3912.4	3936.7	3927.0	3825.2	3771.9	3781.5
35°	3752.5	3757.4	3752.5	3738.0	3752.5	3757.4	3752.5	3762.1	3699.1	3650.7	3645.8
37.5°	3621.6	3631.3	3626.4	3607.0	3626.4	3631.3	3621.6	3611.9	3524.6	3510.1	3519.7
40°	3485.8	3490.7	3485.8	3471.2	3485.8	3490.7	3485.8	3466.5	3345.3	3350.0	3384.0
42.5°	3354.9	3350.0	3335.5	3325.8	3335.5	3350.0	3354.9	3325.8	3170.7	3156.2	3219.2
45°	3204.6	3209.5	3180.3	3165.8	3180.3	3209.5	3204.6	3185.2	3025.2	2986.5	3030.1
47.5°	3054.4	3054.4	3030.1	3015.5	3030.1	3054.4	3054.4	3030.1	2860.4	2821.6	2845.9
50°	2894.3	2889.5	2855.5	2850.7	2855.5	2889.5	2894.3	2879.8	2700.5	2666.5	2666.5
52.5°	2710.1	2710.1	2715.0	2724.6	2715.0	2710.1	2710.1	2715.0	2555.0	2521.0	2511.4
55°	2550.1	2555.0	2588.9	2598.7	2588.9	2555.0	2550.1	2550.1	2404.7	2370.8	2351.3
57.5°	2385.3	2385.3	2409.6	2409.6	2409.6	2385.3	2385.3	2375.6	2235.0	2206.0	2196.2
60°	2196.2	2206.0	2225.3	2220.5	2225.3	2206.0	2196.2	2186.5	2065.3	2045.9	2012.0
62.5°	1997.5	2007.1	2012.0	2002.3	2012.0	2007.1	1997.5	1968.4	1895.6	1881.1	1837.4
65°	1789.0	1798.6	1803.5	1793.8	1803.5	1798.6	1789.0	1774.4	1721.1	1696.8	1658.1
67.5°	1575.7	1570.8	1565.9	1585.3	1565.9	1570.8	1575.7	1556.3	1522.4	1502.9	1449.6
70°	1357.4	1357.4	1352.7	1362.3	1352.7	1357.4	1357.4	1342.9	1323.5	1309.0	1260.5
72.5°	1124.8	1119.9	1139.3	1124.8	1139.3	1119.9	1124.8	1119.9	1110.2	1095.7	1047.2
75°	896.9	906.6	896.9	911.5	896.9	906.6	896.9	901.7	896.9	887.2	853.3
77.5°	683.6	693.3	683.6	683.6	683.6	693.3	683.6	688.5	688.5	688.5	659.3
80°	484.9	480.0	480.0	475.1	480.0	480.0	484.9	484.9	489.6	480.0	470.2
82.5°	310.3	305.4	305.4	315.2	305.4	305.4	310.3	315.2	305.4	305.4	305.4
85°	169.7	174.6	164.8	164.8	164.8	174.6	169.7	160.0	169.7	169.7	164.8
87.5°	63.0	58.2	58.2	58.2	58.2	58.2	63.0	67.9	67.9	67.9	72.7
90°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	14.5	19.4	21.8	18.7
92.5°	54.5	52.3	43.7	35.0	43.7	52.3	54.5	77.3	107.6	122.8	107.8
95°	185.1	178.5	152.2	126.0	152.2	178.5	185.1	243.0	320.3	359.0	303.2
97.5°	427.3	414.8	364.8	314.8	364.8	414.8	427.3	463.9	512.7	537.2	444.2
100°	600.0	585.1	525.6	466.0	525.6	585.1	600.0	597.4	593.8	592.0	488.8
102.5°	747.5	734.7	683.7	632.7	683.7	734.7	747.5	700.8	638.6	607.5	502.8
105°	919.7	912.8	885.4	858.0	885.4	912.8	919.7	815.0	675.5	605.8	504.3
107.5°	1009.2	1010.9	1017.6	1024.1	1017.6	1010.9	1009.2	863.2	668.6	571.3	481.9
110°	1032.2	1039.3	1067.9	1096.4	1067.9	1039.3	1032.2	869.0	651.4	542.6	462.0

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1017.6	1028.5	1072.4	1116.2	1072.4	1028.5	1017.6	850.5	627.9	516.6	444.6
115°	967.9	983.1	1043.9	1104.7	1043.9	983.1	967.9	807.0	592.5	485.2	424.7
117.5°	899.3	916.2	983.6	1051.1	983.6	916.2	899.3	754.2	560.6	463.7	412.3
120°	853.1	869.5	935.0	1000.6	935.0	869.5	853.1	720.5	543.5	455.1	408.0
122.5°	806.9	823.0	887.8	952.4	887.8	823.0	806.9	687.4	528.1	448.5	405.8
125°	745.8	760.7	820.2	879.7	820.2	760.7	745.8	644.2	508.9	441.3	404.1
127.5°	696.7	709.3	759.5	809.7	759.5	709.3	696.7	609.6	493.4	435.3	403.0
130°	665.7	677.4	723.8	770.2	723.8	677.4	665.7	588.2	484.8	433.0	403.6
132.5°	639.4	649.8	691.3	732.9	691.3	649.8	639.4	569.9	477.3	431.0	404.1
135°	602.0	611.0	646.8	682.6	646.8	611.0	602.0	543.9	466.3	427.6	403.7
137.5°	574.4	581.8	611.1	640.5	611.1	581.8	574.4	525.2	459.7	427.0	406.2
140°	552.4	559.2	586.7	614.1	586.7	559.2	552.4	509.9	453.2	425.0	406.5
142.5°	536.9	542.8	566.4	590.0	566.4	542.8	536.9	499.6	449.8	425.0	408.0
145°	513.6	518.1	535.9	553.8	535.9	518.1	513.6	483.1	442.5	422.1	408.0
147.5°	494.1	497.8	512.6	527.4	512.6	497.8	494.1	470.1	438.2	422.1	410.8
150°	482.9	485.9	497.9	509.9	497.9	485.9	482.9	462.7	435.7	422.1	412.3
152.5°	474.1	476.4	485.3	494.4	485.3	476.4	474.1	456.8	433.7	422.1	413.2
155°	463.5	465.0	470.9	476.9	470.9	465.0	463.5	449.7	431.3	422.1	415.3
157.5°	454.2	455.2	459.5	463.7	459.5	455.2	454.2	443.5	429.3	422.1	417.4
160°	449.6	450.2	452.7	455.1	452.7	450.2	449.6	440.4	428.2	422.1	418.4
162.5°	445.3	445.9	448.2	450.5	448.2	445.9	445.3	437.6	427.3	422.1	419.4
165°	438.7	439.3	441.8	444.2	441.8	439.3	438.7	433.2	425.8	422.1	420.9
167.5°	435.9	436.1	437.1	438.2	437.1	436.1	435.9	432.2	427.4	425.0	423.9
170°	435.9	435.9	435.9	435.9	435.9	435.9	435.9	432.2	427.4	425.0	424.9
172.5°	433.6	433.4	432.4	431.6	432.4	433.4	433.6	430.7	426.9	425.0	425.0
175°	430.4	430.4	430.4	430.4	430.4	430.4	430.4	428.6	426.2	425.0	425.5
177.5°	429.8	429.6	428.6	427.6	428.6	429.6	429.8	428.4	426.5	425.5	426.0
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6

TEST NUMBER: P934201

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	5124.5	5124.5	5124.5	5124.5	5124.5
2.5°	5061.5	5085.8	5100.3	5119.7	5168.2
5°	4867.5	4959.7	4988.7	5061.5	5148.7
7.5°	4440.9	4722.1	4799.6	4974.2	5109.9
10°	4028.9	4310.0	4445.7	4857.9	5061.5
12.5°	3820.4	3985.2	4077.3	4654.2	4993.6
15°	3689.5	3805.8	3873.7	4382.7	4916.1
17.5°	3587.6	3670.1	3718.6	4116.0	4809.4
20°	3524.6	3563.4	3607.0	3922.2	4688.2
22.5°	3481.0	3456.7	3490.7	3786.4	4523.4
25°	3451.8	3359.8	3398.6	3679.7	4329.4
27.5°	3476.1	3272.5	3287.0	3582.8	4125.8
30°	3481.0	3165.8	3170.7	3481.0	3897.9
32.5°	3447.1	3054.4	3059.2	3354.9	3640.9
35°	3364.7	2923.4	2918.6	3209.5	3291.9
37.5°	3253.1	2782.9	2782.9	3049.5	2908.9
40°	3117.4	2642.2	2656.8	2841.0	2569.5
42.5°	2952.5	2492.0	2511.4	2564.7	2317.4
45°	2773.1	2346.5	2361.0	2167.1	2123.4
47.5°	2574.4	2196.2	2201.1	1798.6	2060.5
50°	2336.8	2041.0	2021.6	1541.8	2055.6
52.5°	2128.3	1871.4	1813.2	1396.3	1866.5
55°	1924.7	1692.0	1565.9	1284.8	1730.7
57.5°	1745.4	1459.3	1338.1	1153.8	1701.7
60°	1580.5	1231.5	1139.3	1013.3	1561.1
62.5°	1444.7	1061.8	1042.4	916.3	1415.7
65°	1299.3	945.4	940.6	833.9	1202.3
67.5°	1158.7	867.8	862.9	756.3	916.3
70°	1008.4	785.4	775.7	673.8	678.7
72.5°	853.3	693.3	683.6	606.0	562.4
75°	698.1	586.7	581.8	528.4	455.7
77.5°	547.9	465.5	475.1	426.6	334.5
80°	392.7	339.4	349.1	305.4	252.1
82.5°	261.8	223.0	232.7	194.0	169.7
85°	145.4	126.1	130.9	101.8	77.5
87.5°	67.9	58.2	58.2	38.8	24.3
90°	12.6	8.0	7.4	5.2	2.9
92.5°	77.8	55.4	50.5	30.9	11.5
95°	191.6	107.9	98.9	63.2	27.5
97.5°	258.0	118.5	110.7	79.2	47.7
100°	282.3	127.4	120.2	91.7	63.1
102.5°	293.4	136.3	129.6	102.9	76.3
105°	301.6	149.5	143.8	121.3	98.7
107.5°	303.1	169.0	163.8	142.7	121.7
110°	300.8	179.9	175.1	156.1	137.1

TEST NUMBER: P934201

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	300.9	193.1	188.6	170.5	152.4
115°	303.7	213.0	208.8	192.1	175.3
117.5°	309.3	232.2	228.3	213.2	198.0
120°	313.9	243.3	239.8	225.5	211.2
122.5°	320.5	256.5	252.9	238.6	224.1
125°	329.5	273.5	270.3	257.1	243.9
127.5°	338.4	289.8	286.5	273.2	260.0
130°	344.9	300.7	297.2	282.9	268.5
132.5°	350.1	309.6	306.1	291.8	277.5
135°	355.8	319.9	316.7	303.7	290.7
137.5°	364.4	333.1	329.9	317.1	304.2
140°	369.7	342.1	339.1	327.2	315.3
142.5°	374.1	348.7	345.9	334.9	323.9
145°	379.8	358.7	356.3	346.8	337.2
147.5°	388.2	371.3	369.0	359.7	350.4
150°	392.6	377.9	375.8	367.4	359.0
152.5°	395.5	382.2	380.6	374.3	367.9
155°	401.8	391.6	390.5	385.7	381.0
157.5°	408.2	401.2	400.0	395.4	390.8
160°	411.0	405.5	404.6	401.0	397.5
162.5°	414.1	410.1	409.4	406.7	404.1
165°	418.5	416.7	416.1	413.6	411.2
167.5°	421.9	420.4	420.1	419.0	417.8
170°	424.8	424.7	424.4	423.3	422.1
172.5°	425.0	425.0	424.9	424.7	424.4
175°	426.7	427.6	427.6	427.6	427.6
177.5°	426.9	427.6	427.6	427.6	427.6
180°	427.6	427.6	427.6	427.6	427.6

(END OF REPORT)