

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: P934105

Luminaire Tested: SQ4-FA-025U-100D-B50-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934105
REPORT IS A COMBINATION OF REPORTS P933681 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-B50-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

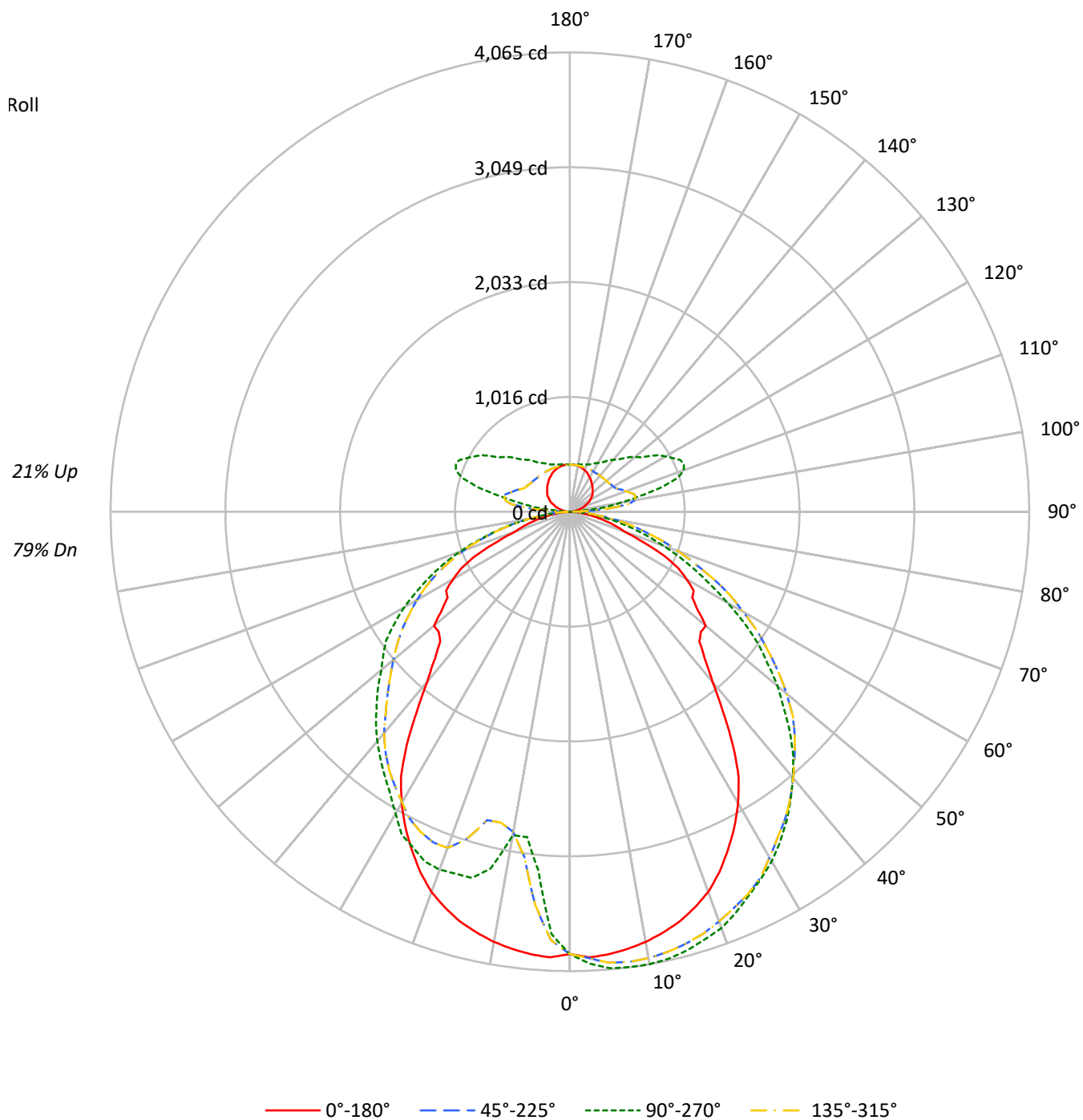
Lumens per Lamp: N/A
Luminaire Lumens: 12858.4 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 116.4
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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12104	12104	12104	12104
5°	12199	12218	12199	9607
10°	12121	12036	12121	8604
15°	11994	11775	11994	9832
20°	11748	11466	11748	9852
25°	11239	11015	11239	9643
30°	10580	10641	10580	9186
35°	9437	10168	9437	8682
40°	7867	9611	7867	8301
45°	7034	8959	7034	7863
50°	7479	8182	7479	7424
55°	7043	7344	7043	7170
60°	7270	6237	7270	6567
65°	6601	5156	6601	5763
70°	4582	4109	4582	4831
75°	4033	3037	4033	3637
80°	3274	2008	3274	2186
85°	1918	1063	1918	904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 10774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.2	2.7
10°-20°	1002.9	7.8
20°-30°	1550.3	12.1
30°-40°	1850.7	14.4
40°-50°	1861.6	14.5
50°-60°	1619.8	12.6
60°-70°	1148.5	8.9
70°-80°	607.6	4.7
80°-90°	152.9	1.2
90°-100°	203.8	1.6
100°-110°	535.9	4.2
110°-120°	555.7	4.3
120°-130°	445.7	3.5
130°-140°	349.7	2.7
140°-150°	268.4	2.1
150°-160°	193.3	1.5
160°-170°	118.3	0.9
170°-180°	40.0	0.3
0°-30°	2906.5	22.6
0°-40°	4757.2	37.0
0°-60°	8238.6	64.1
0°-90°	10147.6	78.9
90°-120°	1295.4	10.1
90°-150°	2359.2	18.3
90°-180°	2711.0	21.1
0°-180°	12858.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3913	3913	3913	3913	3913	
5°	3932	4054	3932	3188	3932	373
15°	3754	4017	3754	3354	3754	1056
25°	3306	3747	3306	3280	3306	1518
35°	2514	3343	2514	2854	2514	1555
45°	1622	2754	1622	2418	1622	1299
55°	1322	2032	1322	1984	1322	1214
65°	918	1225	918	1370	918	877
75°	348	581	348	696	348	366
85°	59	148	59	126	59	80
90°	3	11	3	11	3	5
95°	27	123	27	123	27	30
105°	97	839	97	839	97	102
115°	172	1080	172	1080	172	169
125°	238	860	238	860	238	212
135°	284	668	284	668	284	220
145°	330	542	330	542	330	207
155°	373	466	373	466	373	171
165°	402	434	402	434	402	114
175°	418	421	418	421	418	40
180°	418	418	418	418	418	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3946.4	3946.4	3968.7	3976.0	3976.0	3964.9	3953.8	3964.9	3998.3	4009.4	4005.6
5°	3931.7	3961.3	4002.0	4009.4	4016.8	4013.1	4005.6	4013.1	4050.1	4057.5	4061.2
7.5°	3902.0	3957.5	4009.4	4020.5	4031.6	4020.5	4016.8	4024.2	4061.2	4068.6	4068.6
10°	3865.0	3942.8	4002.0	4009.4	4020.5	4009.4	4009.4	4024.2	4061.2	4068.6	4072.3
12.5°	3813.1	3920.6	3976.0	3983.5	3998.3	3994.5	3990.9	4005.6	4042.7	4050.1	4050.1
15°	3753.9	3879.8	3931.7	3939.1	3964.9	3957.5	3957.5	3972.4	4013.1	4024.2	4020.5
17.5°	3672.5	3828.0	3887.2	3898.3	3916.8	3913.1	3916.8	3931.7	3968.7	3976.0	3979.8
20°	3579.9	3757.7	3828.0	3839.1	3857.6	3857.6	3857.6	3876.1	3913.1	3927.9	3927.9
22.5°	3454.0	3683.6	3757.7	3765.0	3787.3	3787.3	3794.7	3820.5	3853.9	3857.6	3857.6
25°	3306.0	3602.2	3665.1	3687.3	3709.5	3720.6	3731.7	3746.6	3757.7	3753.9	3757.7
27.5°	3150.5	3498.5	3579.9	3594.8	3624.4	3635.5	3650.3	3654.0	3657.6	3668.8	3661.4
30°	2976.5	3354.1	3476.3	3491.1	3539.2	3546.6	3531.8	3539.2	3557.7	3565.2	3572.6
32.5°	2780.2	3139.4	3368.9	3402.2	3446.6	3424.4	3420.8	3431.9	3461.5	3461.5	3468.9
35°	2513.8	2972.8	3269.0	3298.6	3331.9	3306.0	3320.7	3324.5	3343.0	3354.1	3350.4
37.5°	2221.2	2828.4	3165.3	3187.6	3213.4	3180.1	3202.3	3213.4	3228.3	3220.8	3220.8
40°	1962.1	2602.6	3043.2	3057.9	3080.1	3054.3	3076.4	3083.9	3091.3	3083.9	3080.1
42.5°	1769.6	2354.5	2913.5	2932.1	2917.3	2935.7	2943.1	2958.0	2946.9	2932.1	2932.1
45°	1621.5	2287.9	2772.9	2795.1	2772.9	2802.5	2813.6	2813.6	2780.2	2772.9	2769.2
47.5°	1573.4	2154.6	2632.2	2632.2	2621.1	2658.1	2676.7	2650.7	2617.3	2606.3	2606.3
50°	1569.7	2006.5	2439.7	2424.9	2476.7	2521.1	2502.7	2476.7	2450.8	2410.1	2410.1
52.5°	1425.3	1825.1	2191.6	2247.2	2328.6	2354.5	2324.9	2299.0	2254.6	2236.1	2221.2
55°	1321.6	1636.4	1965.8	2076.8	2162.0	2195.4	2139.8	2113.9	2047.2	2036.1	2028.7
57.5°	1299.5	1362.3	1758.5	1899.2	2002.9	1999.1	1965.8	1917.7	1862.1	1851.1	1847.4
60°	1192.1	984.7	1536.3	1703.0	1810.4	1799.3	1769.6	1725.2	1673.4	1666.0	1658.5
62.5°	1081.0	714.5	1284.6	1473.5	1625.3	1621.5	1595.6	1529.0	1492.0	1473.5	1458.6
65°	918.1	599.7	914.4	1225.4	1443.8	1451.2	1395.7	1347.6	1306.9	1284.6	1280.9
67.5°	699.7	488.7	618.2	1021.8	1269.9	1262.4	1192.1	1169.8	1118.0	1106.9	1084.7
70°	518.3	325.8	429.5	829.3	1099.5	1081.0	1025.4	999.6	951.5	925.5	910.7
72.5°	429.5	262.8	314.7	644.2	925.5	903.3	855.2	825.6	784.8	762.6	747.9
75°	348.0	277.7	240.6	477.6	751.5	736.7	692.3	662.7	629.3	599.7	603.5
77.5°	255.4	259.2	192.5	351.7	596.1	573.8	547.9	510.9	496.0	466.4	466.4
80°	192.5	203.6	144.4	240.6	429.5	429.5	407.2	381.4	355.4	340.6	340.6
82.5°	129.5	129.5	107.3	151.8	292.4	281.3	266.6	259.2	244.3	237.0	237.0
85°	59.2	74.1	66.6	92.6	159.2	166.6	166.6	159.2	155.5	148.0	151.8
87.5°	18.5	33.3	40.7	51.8	81.4	85.2	88.8	88.8	88.8	92.6	92.6
90°	2.8	5.0	7.3	7.8	12.3	18.3	21.3	19.0	14.2	10.6	10.6
92.5°	11.2	30.3	49.4	54.2	76.1	105.4	120.1	105.3	75.6	53.3	51.2
95°	26.9	61.8	96.8	105.5	187.4	296.5	351.1	313.3	237.7	181.0	174.6
97.5°	46.6	77.4	108.3	115.9	252.4	434.4	525.4	501.5	453.7	417.9	405.6
100°	61.7	89.7	117.6	124.6	276.1	478.0	579.0	580.8	584.2	586.8	572.3
102.5°	74.6	100.7	126.7	133.3	286.9	491.8	594.1	624.6	685.4	731.0	718.5
105°	96.6	118.6	140.7	146.2	295.0	493.2	592.4	660.6	797.1	899.4	892.7
107.5°	119.0	139.5	160.2	165.3	296.5	471.3	558.7	653.9	844.2	987.1	988.6
110°	134.1	152.7	171.3	176.0	294.2	451.9	530.7	637.1	849.8	1009.5	1016.5

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.1	166.7	184.5	188.9	294.3	434.9	505.2	614.1	831.8	995.2	1005.9
115°	171.5	187.8	204.2	208.3	297.0	415.3	474.6	579.5	789.2	946.6	961.5
117.5°	193.6	208.5	223.3	227.1	302.5	403.2	453.6	548.3	737.6	879.5	896.1
120°	206.5	220.5	234.5	238.0	307.0	399.0	445.1	531.5	704.6	834.3	850.4
122.5°	219.2	233.3	247.3	250.9	313.5	396.9	438.6	516.5	672.3	789.1	804.9
125°	238.5	251.4	264.3	267.5	322.2	395.2	431.6	497.7	630.1	729.4	743.9
127.5°	254.2	267.2	280.2	283.5	330.9	394.1	425.7	482.5	596.2	681.4	693.7
130°	262.6	276.7	290.7	294.1	337.3	394.7	423.5	474.1	575.3	651.1	662.5
132.5°	271.4	285.3	299.3	302.8	342.4	395.2	421.5	466.8	557.4	625.3	635.5
135°	284.3	297.0	309.7	312.9	348.0	394.8	418.2	456.1	531.9	588.8	597.6
137.5°	297.5	310.1	322.6	325.8	356.4	397.2	417.6	449.6	513.7	561.8	569.0
140°	308.4	320.0	331.7	334.6	361.6	397.6	415.6	443.3	498.7	540.2	547.0
142.5°	316.8	327.6	338.3	341.0	365.8	399.0	415.6	439.9	488.6	525.1	530.9
145°	329.8	339.1	348.5	350.8	371.5	399.0	412.8	432.7	472.5	502.3	506.7
147.5°	342.7	351.7	360.9	363.1	379.7	401.8	412.8	428.5	459.8	483.3	486.9
150°	351.1	359.3	367.5	369.6	384.0	403.2	412.8	426.1	452.5	472.3	475.2
152.5°	359.8	366.0	372.2	373.8	386.8	404.1	412.8	424.1	446.7	463.6	465.9
155°	372.7	377.2	381.9	383.0	392.9	406.2	412.8	421.8	439.8	453.3	454.8
157.5°	382.2	386.7	391.3	392.4	399.2	408.3	412.8	419.8	433.7	444.2	445.2
160°	388.7	392.2	395.7	396.6	402.0	409.2	412.8	418.8	430.8	439.7	440.3
162.5°	395.2	397.8	400.4	401.1	405.0	410.2	412.8	417.9	428.0	435.5	436.1
165°	402.2	404.5	406.9	407.5	409.3	411.6	412.8	416.5	423.7	429.1	429.6
167.5°	408.6	409.7	410.9	411.1	412.6	414.6	415.6	418.0	422.7	426.3	426.6
170°	412.8	413.9	415.1	415.3	415.4	415.5	415.6	418.0	422.7	426.3	426.3
172.5°	415.1	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2	424.0	423.8
175°	418.2	418.2	418.2	418.2	417.3	416.2	415.6	416.8	419.2	421.0	421.0
177.5°	418.2	418.2	418.2	418.2	417.5	416.7	416.2	417.1	419.0	420.4	420.1
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	4013.1	4002.0	4013.1	4005.6	4009.4	3998.3	3964.9	3953.8	3964.9	3976.0	3976.0
5°	4061.2	4053.8	4061.2	4061.2	4057.5	4050.1	4013.1	4005.6	4013.1	4016.8	4009.4
7.5°	4076.0	4065.0	4076.0	4068.6	4068.6	4061.2	4024.2	4016.8	4020.5	4031.6	4020.5
10°	4076.0	4065.0	4076.0	4072.3	4068.6	4061.2	4024.2	4009.4	4009.4	4020.5	4009.4
12.5°	4057.5	4050.1	4057.5	4050.1	4050.1	4042.7	4005.6	3990.9	3994.5	3998.3	3983.5
15°	4027.9	4016.8	4027.9	4020.5	4024.2	4013.1	3972.4	3957.5	3957.5	3964.9	3939.1
17.5°	3983.5	3968.7	3983.5	3979.8	3976.0	3968.7	3931.7	3916.8	3913.1	3916.8	3898.3
20°	3931.7	3920.6	3931.7	3927.9	3927.9	3913.1	3876.1	3857.6	3857.6	3857.6	3839.1
22.5°	3850.2	3839.1	3850.2	3857.6	3857.6	3853.9	3820.5	3794.7	3787.3	3787.3	3765.0
25°	3757.7	3746.6	3757.7	3757.7	3753.9	3757.7	3746.6	3731.7	3720.6	3709.5	3687.3
27.5°	3668.8	3661.4	3668.8	3661.4	3668.8	3657.6	3654.0	3650.3	3635.5	3624.4	3594.8
30°	3579.9	3572.6	3579.9	3572.6	3565.2	3557.7	3539.2	3531.8	3546.6	3539.2	3491.1
32.5°	3468.9	3461.5	3468.9	3468.9	3461.5	3461.5	3431.9	3420.8	3424.4	3446.6	3402.2
35°	3354.1	3343.0	3354.1	3350.4	3354.1	3343.0	3324.5	3320.7	3306.0	3331.9	3298.6
37.5°	3220.8	3209.7	3220.8	3220.8	3220.8	3228.3	3213.4	3202.3	3180.1	3213.4	3187.6
40°	3083.9	3069.0	3083.9	3080.1	3083.9	3091.3	3083.9	3076.4	3054.3	3080.1	3057.9
42.5°	2928.4	2924.6	2928.4	2932.1	2932.1	2946.9	2958.0	2943.1	2935.7	2917.3	2932.1
45°	2761.7	2754.4	2761.7	2769.2	2772.9	2780.2	2813.6	2813.6	2802.5	2772.9	2795.1
47.5°	2584.1	2565.6	2584.1	2606.3	2606.3	2617.3	2650.7	2676.7	2658.1	2621.1	2632.2
50°	2395.2	2399.0	2395.2	2410.1	2410.1	2450.8	2476.7	2502.7	2521.1	2476.7	2424.9
52.5°	2210.1	2206.5	2210.1	2221.2	2236.1	2254.6	2299.0	2324.9	2354.5	2328.6	2247.2
55°	2025.0	2032.5	2025.0	2028.7	2036.1	2047.2	2113.9	2139.8	2195.4	2162.0	2076.8
57.5°	1840.0	1828.9	1840.0	1847.4	1851.1	1862.1	1917.7	1965.8	1999.1	2002.9	1899.2
60°	1625.3	1610.4	1625.3	1658.5	1666.0	1673.4	1725.2	1769.6	1799.3	1810.4	1703.0
62.5°	1436.4	1410.5	1436.4	1458.6	1473.5	1492.0	1529.0	1595.6	1621.5	1625.3	1473.5
65°	1236.5	1225.4	1236.5	1280.9	1284.6	1306.9	1347.6	1395.7	1451.2	1443.8	1225.4
67.5°	1055.1	1055.1	1055.1	1084.7	1106.9	1118.0	1169.8	1192.1	1262.4	1269.9	1021.8
70°	888.5	884.8	888.5	910.7	925.5	951.5	999.6	1025.4	1081.0	1099.5	829.3
72.5°	729.4	725.6	729.4	747.9	762.6	784.8	825.6	855.2	903.3	925.5	644.2
75°	588.6	581.2	588.6	603.5	599.7	629.3	662.7	692.3	736.7	751.5	477.6
77.5°	451.7	451.7	451.7	466.4	466.4	496.0	510.9	547.9	573.8	596.1	351.7
80°	336.9	333.2	336.9	340.6	340.6	355.4	381.4	407.2	429.5	429.5	240.6
82.5°	237.0	229.5	237.0	237.0	237.0	244.3	259.2	266.6	281.3	292.4	151.8
85°	148.0	148.0	148.0	151.8	148.0	155.5	159.2	166.6	166.6	159.2	92.6
87.5°	96.3	92.6	96.3	92.6	92.6	88.8	88.8	88.8	85.2	81.4	51.8
90°	10.6	10.6	10.6	10.6	10.6	14.2	19.0	21.3	18.3	12.3	7.8
92.5°	42.8	34.3	42.8	51.2	53.3	75.6	105.3	120.1	105.4	76.1	54.2
95°	148.9	123.2	148.9	174.6	181.0	237.7	313.3	351.1	296.5	187.4	105.5
97.5°	356.8	307.8	356.8	405.6	417.9	453.7	501.5	525.4	434.4	252.4	115.9
100°	514.1	455.8	514.1	572.3	586.8	584.2	580.8	579.0	478.0	276.1	124.6
102.5°	668.7	618.8	668.7	718.5	731.0	685.4	624.6	594.1	491.8	286.9	133.3
105°	865.9	839.1	865.9	892.7	899.4	797.1	660.6	592.4	493.2	295.0	146.2
107.5°	995.2	1001.6	995.2	988.6	987.1	844.2	653.9	558.7	471.3	296.5	165.3
110°	1044.4	1072.3	1044.4	1016.5	1009.5	849.8	637.1	530.7	451.9	294.2	176.0

TEST NUMBER: P934105

CATALOG NUMBER: SQ4-FA-025U-100D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1048.8	1091.7	1048.8	1005.9	995.2	831.8	614.1	505.2	434.9	294.3	188.9
115°	1021.0	1080.5	1021.0	961.5	946.6	789.2	579.5	474.6	415.3	297.0	208.3
117.5°	962.0	1028.0	962.0	896.1	879.5	737.6	548.3	453.6	403.2	302.5	227.1
120°	914.5	978.6	914.5	850.4	834.3	704.6	531.5	445.1	399.0	307.0	238.0
122.5°	868.2	931.5	868.2	804.9	789.1	672.3	516.5	438.6	396.9	313.5	250.9
125°	802.1	860.4	802.1	743.9	729.4	630.1	497.7	431.6	395.2	322.2	267.5
127.5°	742.8	791.9	742.8	693.7	681.4	596.2	482.5	425.7	394.1	330.9	283.5
130°	707.9	753.3	707.9	662.5	651.1	575.3	474.1	423.5	394.7	337.3	294.1
132.5°	676.1	716.8	676.1	635.5	625.3	557.4	466.8	421.5	395.2	342.4	302.8
135°	632.6	667.6	632.6	597.6	588.8	531.9	456.1	418.2	394.8	348.0	312.9
137.5°	597.7	626.4	597.7	569.0	561.8	513.7	449.6	417.6	397.2	356.4	325.8
140°	573.8	600.6	573.8	547.0	540.2	498.7	443.3	415.6	397.6	361.6	334.6
142.5°	554.0	577.0	554.0	530.9	525.1	488.6	439.9	415.6	399.0	365.8	341.0
145°	524.2	541.6	524.2	506.7	502.3	472.5	432.7	412.8	399.0	371.5	350.8
147.5°	501.4	515.8	501.4	486.9	483.3	459.8	428.5	412.8	401.8	379.7	363.1
150°	487.0	498.7	487.0	475.2	472.3	452.5	426.1	412.8	403.2	384.0	369.6
152.5°	474.7	483.5	474.7	465.9	463.6	446.7	424.1	412.8	404.1	386.8	373.8
155°	460.6	466.4	460.6	454.8	453.3	439.8	421.8	412.8	406.2	392.9	383.0
157.5°	449.4	453.6	449.4	445.2	444.2	433.7	419.8	412.8	408.3	399.2	392.4
160°	442.7	445.1	442.7	440.3	439.7	430.8	418.8	412.8	409.2	402.0	396.6
162.5°	438.3	440.6	438.3	436.1	435.5	428.0	417.9	412.8	410.2	405.0	401.1
165°	432.1	434.4	432.1	429.6	429.1	423.7	416.5	412.8	411.6	409.3	407.5
167.5°	427.5	428.5	427.5	426.6	426.3	422.7	418.0	415.6	414.6	412.6	411.1
170°	426.3	426.3	426.3	426.3	426.3	422.7	418.0	415.6	415.5	415.4	415.3
172.5°	422.9	422.1	422.9	423.8	424.0	421.2	417.5	415.6	415.6	415.6	415.6
175°	421.0	421.0	421.0	421.0	421.0	419.2	416.8	415.6	416.2	417.3	418.2
177.5°	419.2	418.2	419.2	420.1	420.4	419.0	417.1	416.2	416.7	417.5	418.2
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2

TEST NUMBER: P934105

CATALOG NUMBER: SQ4-FA-025U-100D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3968.7	3946.4	3946.4	3909.4	3894.6	3883.5	3865.0	3809.5	3794.7	3779.8	3802.0
5°	4002.0	3961.3	3931.7	3865.0	3809.5	3787.3	3716.9	3583.7	3494.7	3428.2	3391.2
7.5°	4009.4	3957.5	3902.0	3798.4	3665.1	3605.9	3391.2	3146.8	3080.1	3020.9	2983.8
10°	4002.0	3942.8	3865.0	3709.5	3394.8	3291.1	3076.4	2917.3	2876.5	2865.4	2876.5
12.5°	3976.0	3920.6	3813.1	3554.1	3113.5	3043.2	2917.3	2824.7	2817.3	2835.8	2935.7
15°	3931.7	3879.8	3753.9	3346.7	2958.0	2906.1	2817.3	2784.0	2824.7	2954.2	3254.1
17.5°	3887.2	3828.0	3672.5	3143.1	2839.5	2802.5	2739.5	2806.2	3035.7	3209.7	3309.7
20°	3828.0	3757.7	3579.9	2995.0	2754.4	2721.0	2691.4	2991.3	3165.3	3228.3	3283.8
22.5°	3757.7	3683.6	3454.0	2891.4	2665.5	2639.6	2658.1	3095.0	3165.3	3209.7	3257.9
25°	3665.1	3602.2	3306.0	2809.9	2595.2	2565.6	2635.9	3083.9	3124.6	3135.7	3231.9
27.5°	3579.9	3498.5	3150.5	2735.9	2510.0	2498.9	2654.4	3035.7	3065.4	3076.4	3180.1
30°	3476.3	3354.1	2976.5	2658.1	2421.2	2417.5	2658.1	2976.5	2969.1	2998.7	3102.4
32.5°	3368.9	3139.4	2780.2	2561.9	2336.0	2332.3	2632.2	2887.6	2880.3	2921.0	2998.7
35°	3269.0	2972.8	2513.8	2450.8	2228.7	2232.4	2569.2	2784.0	2787.7	2824.7	2872.8
37.5°	3165.3	2828.4	2221.2	2328.6	2125.0	2125.0	2484.1	2687.8	2680.3	2691.4	2758.1
40°	3043.2	2602.6	1962.1	2169.4	2028.7	2017.6	2380.5	2584.1	2558.1	2554.5	2647.0
42.5°	2913.5	2354.5	1769.6	1958.4	1917.7	1902.8	2254.6	2458.2	2410.1	2421.2	2539.6
45°	2772.9	2287.9	1621.5	1654.9	1802.9	1791.8	2117.6	2313.8	2280.5	2310.2	2432.3
47.5°	2632.2	2154.6	1573.4	1373.4	1680.7	1677.1	1965.8	2173.1	2154.6	2184.3	2313.8
50°	2439.7	2006.5	1569.7	1177.3	1543.8	1558.6	1784.4	2036.1	2036.1	2062.1	2199.0
52.5°	2191.6	1825.1	1425.3	1066.2	1384.6	1429.0	1625.3	1917.7	1925.1	1951.0	2073.2
55°	1965.8	1636.4	1321.6	981.1	1195.8	1292.0	1469.7	1795.5	1810.4	1836.2	1947.3
57.5°	1758.5	1362.3	1299.5	881.1	1021.8	1114.4	1332.7	1677.1	1684.5	1706.7	1814.0
60°	1536.3	984.7	1192.1	773.7	870.0	940.4	1206.9	1536.3	1562.3	1577.1	1669.6
62.5°	1284.6	714.5	1081.0	699.7	796.0	810.8	1103.2	1403.1	1436.4	1447.5	1503.1
65°	914.4	599.7	918.1	636.8	718.2	721.9	992.2	1266.1	1295.7	1314.2	1355.0
67.5°	618.2	488.7	699.7	577.5	658.9	662.7	884.8	1106.9	1147.6	1162.5	1188.4
70°	429.5	325.8	518.3	514.6	592.3	599.7	770.1	962.6	999.6	1010.7	1025.4
72.5°	314.7	262.8	429.5	462.8	522.0	529.4	651.6	799.7	836.7	847.8	855.2
75°	240.6	277.7	348.0	403.5	444.2	447.9	533.1	651.6	677.5	684.9	688.5
77.5°	192.5	259.2	255.4	325.8	362.8	355.4	418.3	503.5	525.7	525.7	525.7
80°	144.4	203.6	192.5	233.2	266.6	259.2	299.9	359.1	366.5	373.9	370.2
82.5°	107.3	129.5	129.5	148.0	177.7	170.3	199.9	233.2	233.2	233.2	240.6
85°	66.6	74.1	59.2	77.7	99.9	96.3	111.1	125.9	129.5	129.5	122.2
87.5°	40.7	33.3	18.5	29.6	44.5	44.5	51.8	55.6	51.8	51.8	51.8
90°	7.3	5.0	2.8	5.0	7.3	7.8	12.3	18.3	21.3	19.0	14.2
92.5°	49.4	30.3	11.2	30.3	49.4	54.2	76.1	105.4	120.1	105.3	75.6
95°	96.8	61.8	26.9	61.8	96.8	105.5	187.4	296.5	351.1	313.3	237.7
97.5°	108.3	77.4	46.6	77.4	108.3	115.9	252.4	434.4	525.4	501.5	453.7
100°	117.6	89.7	61.7	89.7	117.6	124.6	276.1	478.0	579.0	580.8	584.2
102.5°	126.7	100.7	74.6	100.7	126.7	133.3	286.9	491.8	594.1	624.6	685.4
105°	140.7	118.6	96.6	118.6	140.7	146.2	295.0	493.2	592.4	660.6	797.1
107.5°	160.2	139.5	119.0	139.5	160.2	165.3	296.5	471.3	558.7	653.9	844.2
110°	171.3	152.7	134.1	152.7	171.3	176.0	294.2	451.9	530.7	637.1	849.8

TEST NUMBER: P934105

CATALOG NUMBER: SQ4-FA-025U-100D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	184.5	166.7	149.1	166.7	184.5	188.9	294.3	434.9	505.2	614.1	831.8
115°	204.2	187.8	171.5	187.8	204.2	208.3	297.0	415.3	474.6	579.5	789.2
117.5°	223.3	208.5	193.6	208.5	223.3	227.1	302.5	403.2	453.6	548.3	737.6
120°	234.5	220.5	206.5	220.5	234.5	238.0	307.0	399.0	445.1	531.5	704.6
122.5°	247.3	233.3	219.2	233.3	247.3	250.9	313.5	396.9	438.6	516.5	672.3
125°	264.3	251.4	238.5	251.4	264.3	267.5	322.2	395.2	431.6	497.7	630.1
127.5°	280.2	267.2	254.2	267.2	280.2	283.5	330.9	394.1	425.7	482.5	596.2
130°	290.7	276.7	262.6	276.7	290.7	294.1	337.3	394.7	423.5	474.1	575.3
132.5°	299.3	285.3	271.4	285.3	299.3	302.8	342.4	395.2	421.5	466.8	557.4
135°	309.7	297.0	284.3	297.0	309.7	312.9	348.0	394.8	418.2	456.1	531.9
137.5°	322.6	310.1	297.5	310.1	322.6	325.8	356.4	397.2	417.6	449.6	513.7
140°	331.7	320.0	308.4	320.0	331.7	334.6	361.6	397.6	415.6	443.3	498.7
142.5°	338.3	327.6	316.8	327.6	338.3	341.0	365.8	399.0	415.6	439.9	488.6
145°	348.5	339.1	329.8	339.1	348.5	350.8	371.5	399.0	412.8	432.7	472.5
147.5°	360.9	351.7	342.7	351.7	360.9	363.1	379.7	401.8	412.8	428.5	459.8
150°	367.5	359.3	351.1	359.3	367.5	369.6	384.0	403.2	412.8	426.1	452.5
152.5°	372.2	366.0	359.8	366.0	372.2	373.8	386.8	404.1	412.8	424.1	446.7
155°	381.9	377.2	372.7	377.2	381.9	383.0	392.9	406.2	412.8	421.8	439.8
157.5°	391.3	386.7	382.2	386.7	391.3	392.4	399.2	408.3	412.8	419.8	433.7
160°	395.7	392.2	388.7	392.2	395.7	396.6	402.0	409.2	412.8	418.8	430.8
162.5°	400.4	397.8	395.2	397.8	400.4	401.1	405.0	410.2	412.8	417.9	428.0
165°	406.9	404.5	402.2	404.5	406.9	407.5	409.3	411.6	412.8	416.5	423.7
167.5°	410.9	409.7	408.6	409.7	410.9	411.1	412.6	414.6	415.6	418.0	422.7
170°	415.1	413.9	412.8	413.9	415.1	415.3	415.4	415.5	415.6	418.0	422.7
172.5°	415.5	415.3	415.1	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2
175°	418.2	418.2	418.2	418.2	418.2	418.2	417.3	416.2	415.6	416.8	419.2
177.5°	418.2	418.2	418.2	418.2	418.2	418.2	417.5	416.7	416.2	417.1	419.0
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2

TEST NUMBER: P934105

CATALOG NUMBER: SQ4-FA-025U-100D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3776.2	3765.0	3779.8	3739.1	3779.8	3765.0	3776.2	3802.0	3779.8	3794.7	3809.5
5°	3313.4	3294.9	3235.7	3187.6	3235.7	3294.9	3313.4	3391.2	3428.2	3494.7	3583.7
7.5°	2961.7	2946.9	2932.1	2902.4	2932.1	2946.9	2961.7	2983.8	3020.9	3080.1	3146.8
10°	2883.9	2887.6	2909.9	2906.1	2909.9	2887.6	2883.9	2876.5	2865.4	2876.5	2917.3
12.5°	3083.9	3117.1	3239.3	3231.9	3239.3	3117.1	3083.9	2935.7	2835.8	2817.3	2824.7
15°	3313.4	3324.5	3350.4	3354.1	3350.4	3324.5	3313.4	3254.1	2954.2	2824.7	2784.0
17.5°	3335.6	3339.3	3357.8	3357.8	3357.8	3339.3	3335.6	3309.7	3209.7	3035.7	2806.2
20°	3317.1	3324.5	3361.5	3368.9	3361.5	3324.5	3317.1	3283.8	3228.3	3165.3	2991.3
22.5°	3309.7	3324.5	3354.1	3350.4	3354.1	3324.5	3309.7	3257.9	3209.7	3165.3	3095.0
25°	3272.6	3272.6	3276.4	3280.0	3276.4	3272.6	3272.6	3231.9	3135.7	3124.6	3083.9
27.5°	3194.9	3202.3	3224.5	3220.8	3224.5	3202.3	3194.9	3180.1	3076.4	3065.4	3035.7
30°	3124.6	3117.1	3098.6	3083.9	3098.6	3117.1	3124.6	3102.4	2998.7	2969.1	2976.5
32.5°	3006.1	2987.6	2969.1	2958.0	2969.1	2987.6	3006.1	2998.7	2921.0	2880.3	2887.6
35°	2865.4	2869.2	2865.4	2854.3	2865.4	2869.2	2865.4	2872.8	2824.7	2787.7	2784.0
37.5°	2765.5	2772.9	2769.2	2754.4	2769.2	2772.9	2765.5	2758.1	2691.4	2680.3	2687.8
40°	2661.8	2665.5	2661.8	2650.7	2661.8	2665.5	2661.8	2647.0	2554.5	2558.1	2584.1
42.5°	2561.9	2558.1	2547.0	2539.6	2547.0	2558.1	2561.9	2539.6	2421.2	2410.1	2458.2
45°	2447.1	2450.8	2428.6	2417.5	2428.6	2450.8	2447.1	2432.3	2310.2	2280.5	2313.8
47.5°	2332.3	2332.3	2313.8	2302.7	2313.8	2332.3	2332.3	2313.8	2184.3	2154.6	2173.1
50°	2210.1	2206.5	2180.5	2176.9	2180.5	2206.5	2210.1	2199.0	2062.1	2036.1	2036.1
52.5°	2069.5	2069.5	2073.2	2080.6	2073.2	2069.5	2069.5	2073.2	1951.0	1925.1	1917.7
55°	1947.3	1951.0	1976.9	1984.3	1976.9	1951.0	1947.3	1947.3	1836.2	1810.4	1795.5
57.5°	1821.4	1821.4	1840.0	1840.0	1840.0	1821.4	1821.4	1814.0	1706.7	1684.5	1677.1
60°	1677.1	1684.5	1699.2	1695.6	1699.2	1684.5	1677.1	1669.6	1577.1	1562.3	1536.3
62.5°	1525.2	1532.7	1536.3	1529.0	1536.3	1532.7	1525.2	1503.1	1447.5	1436.4	1403.1
65°	1366.1	1373.4	1377.2	1369.8	1377.2	1373.4	1366.1	1355.0	1314.2	1295.7	1266.1
67.5°	1203.2	1199.4	1195.8	1210.6	1195.8	1199.4	1203.2	1188.4	1162.5	1147.6	1106.9
70°	1036.6	1036.6	1032.9	1040.3	1032.9	1036.6	1036.6	1025.4	1010.7	999.6	962.6
72.5°	858.9	855.2	870.0	858.9	870.0	855.2	858.9	855.2	847.8	836.7	799.7
75°	684.9	692.3	684.9	696.0	684.9	692.3	684.9	688.5	684.9	677.5	651.6
77.5°	522.0	529.4	522.0	522.0	522.0	529.4	522.0	525.7	525.7	525.7	503.5
80°	370.2	366.5	366.5	362.8	366.5	366.5	370.2	370.2	373.9	366.5	359.1
82.5°	237.0	233.2	233.2	240.6	233.2	233.2	237.0	240.6	233.2	233.2	233.2
85°	129.5	133.3	125.9	125.9	125.9	133.3	129.5	122.2	129.5	129.5	125.9
87.5°	48.1	44.5	44.5	44.5	44.5	44.5	48.1	51.8	51.8	51.8	55.6
90°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	14.2	19.0	21.3	18.3
92.5°	53.3	51.2	42.8	34.3	42.8	51.2	53.3	75.6	105.3	120.1	105.4
95°	181.0	174.6	148.9	123.2	148.9	174.6	181.0	237.7	313.3	351.1	296.5
97.5°	417.9	405.6	356.8	307.8	356.8	405.6	417.9	453.7	501.5	525.4	434.4
100°	586.8	572.3	514.1	455.8	514.1	572.3	586.8	584.2	580.8	579.0	478.0
102.5°	731.0	718.5	668.7	618.8	668.7	718.5	731.0	685.4	624.6	594.1	491.8
105°	899.4	892.7	865.9	839.1	865.9	892.7	899.4	797.1	660.6	592.4	493.2
107.5°	987.1	988.6	995.2	1001.6	995.2	988.6	987.1	844.2	653.9	558.7	471.3
110°	1009.5	1016.5	1044.4	1072.3	1044.4	1016.5	1009.5	849.8	637.1	530.7	451.9

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	995.2	1005.9	1048.8	1091.7	1048.8	1005.9	995.2	831.8	614.1	505.2	434.9
115°	946.6	961.5	1021.0	1080.5	1021.0	961.5	946.6	789.2	579.5	474.6	415.3
117.5°	879.5	896.1	962.0	1028.0	962.0	896.1	879.5	737.6	548.3	453.6	403.2
120°	834.3	850.4	914.5	978.6	914.5	850.4	834.3	704.6	531.5	445.1	399.0
122.5°	789.1	804.9	868.2	931.5	868.2	804.9	789.1	672.3	516.5	438.6	396.9
125°	729.4	743.9	802.1	860.4	802.1	743.9	729.4	630.1	497.7	431.6	395.2
127.5°	681.4	693.7	742.8	791.9	742.8	693.7	681.4	596.2	482.5	425.7	394.1
130°	651.1	662.5	707.9	753.3	707.9	662.5	651.1	575.3	474.1	423.5	394.7
132.5°	625.3	635.5	676.1	716.8	676.1	635.5	625.3	557.4	466.8	421.5	395.2
135°	588.8	597.6	632.6	667.6	632.6	597.6	588.8	531.9	456.1	418.2	394.8
137.5°	561.8	569.0	597.7	626.4	597.7	569.0	561.8	513.7	449.6	417.6	397.2
140°	540.2	547.0	573.8	600.6	573.8	547.0	540.2	498.7	443.3	415.6	397.6
142.5°	525.1	530.9	554.0	577.0	554.0	530.9	525.1	488.6	439.9	415.6	399.0
145°	502.3	506.7	524.2	541.6	524.2	506.7	502.3	472.5	432.7	412.8	399.0
147.5°	483.3	486.9	501.4	515.8	501.4	486.9	483.3	459.8	428.5	412.8	401.8
150°	472.3	475.2	487.0	498.7	487.0	475.2	472.3	452.5	426.1	412.8	403.2
152.5°	463.6	465.9	474.7	483.5	474.7	465.9	463.6	446.7	424.1	412.8	404.1
155°	453.3	454.8	460.6	466.4	460.6	454.8	453.3	439.8	421.8	412.8	406.2
157.5°	444.2	445.2	449.4	453.6	449.4	445.2	444.2	433.7	419.8	412.8	408.3
160°	439.7	440.3	442.7	445.1	442.7	440.3	439.7	430.8	418.8	412.8	409.2
162.5°	435.5	436.1	438.3	440.6	438.3	436.1	435.5	428.0	417.9	412.8	410.2
165°	429.1	429.6	432.1	434.4	432.1	429.6	429.1	423.7	416.5	412.8	411.6
167.5°	426.3	426.6	427.5	428.5	427.5	426.6	426.3	422.7	418.0	415.6	414.6
170°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	422.7	418.0	415.6	415.5
172.5°	424.0	423.8	422.9	422.1	422.9	423.8	424.0	421.2	417.5	415.6	415.6
175°	421.0	421.0	421.0	421.0	421.0	421.0	421.0	419.2	416.8	415.6	416.2
177.5°	420.4	420.1	419.2	418.2	419.2	420.1	420.4	419.0	417.1	416.2	416.7
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3865.0	3883.5	3894.6	3909.4	3946.4
5°	3716.9	3787.3	3809.5	3865.0	3931.7
7.5°	3391.2	3605.9	3665.1	3798.4	3902.0
10°	3076.4	3291.1	3394.8	3709.5	3865.0
12.5°	2917.3	3043.2	3113.5	3554.1	3813.1
15°	2817.3	2906.1	2958.0	3346.7	3753.9
17.5°	2739.5	2802.5	2839.5	3143.1	3672.5
20°	2691.4	2721.0	2754.4	2995.0	3579.9
22.5°	2658.1	2639.6	2665.5	2891.4	3454.0
25°	2635.9	2565.6	2595.2	2809.9	3306.0
27.5°	2654.4	2498.9	2510.0	2735.9	3150.5
30°	2658.1	2417.5	2421.2	2658.1	2976.5
32.5°	2632.2	2332.3	2336.0	2561.9	2780.2
35°	2569.2	2232.4	2228.7	2450.8	2513.8
37.5°	2484.1	2125.0	2125.0	2328.6	2221.2
40°	2380.5	2017.6	2028.7	2169.4	1962.1
42.5°	2254.6	1902.8	1917.7	1958.4	1769.6
45°	2117.6	1791.8	1802.9	1654.9	1621.5
47.5°	1965.8	1677.1	1680.7	1373.4	1573.4
50°	1784.4	1558.6	1543.8	1177.3	1569.7
52.5°	1625.3	1429.0	1384.6	1066.2	1425.3
55°	1469.7	1292.0	1195.8	981.1	1321.6
57.5°	1332.7	1114.4	1021.8	881.1	1299.5
60°	1206.9	940.4	870.0	773.7	1192.1
62.5°	1103.2	810.8	796.0	699.7	1081.0
65°	992.2	721.9	718.2	636.8	918.1
67.5°	884.8	662.7	658.9	577.5	699.7
70°	770.1	599.7	592.3	514.6	518.3
72.5°	651.6	529.4	522.0	462.8	429.5
75°	533.1	447.9	444.2	403.5	348.0
77.5°	418.3	355.4	362.8	325.8	255.4
80°	299.9	259.2	266.6	233.2	192.5
82.5°	199.9	170.3	177.7	148.0	129.5
85°	111.1	96.3	99.9	77.7	59.2
87.5°	51.8	44.5	44.5	29.6	18.5
90°	12.3	7.8	7.3	5.0	2.8
92.5°	76.1	54.2	49.4	30.3	11.2
95°	187.4	105.5	96.8	61.8	26.9
97.5°	252.4	115.9	108.3	77.4	46.6
100°	276.1	124.6	117.6	89.7	61.7
102.5°	286.9	133.3	126.7	100.7	74.6
105°	295.0	146.2	140.7	118.6	96.6
107.5°	296.5	165.3	160.2	139.5	119.0
110°	294.2	176.0	171.3	152.7	134.1

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	294.3	188.9	184.5	166.7	149.1
115°	297.0	208.3	204.2	187.8	171.5
117.5°	302.5	227.1	223.3	208.5	193.6
120°	307.0	238.0	234.5	220.5	206.5
122.5°	313.5	250.9	247.3	233.3	219.2
125°	322.2	267.5	264.3	251.4	238.5
127.5°	330.9	283.5	280.2	267.2	254.2
130°	337.3	294.1	290.7	276.7	262.6
132.5°	342.4	302.8	299.3	285.3	271.4
135°	348.0	312.9	309.7	297.0	284.3
137.5°	356.4	325.8	322.6	310.1	297.5
140°	361.6	334.6	331.7	320.0	308.4
142.5°	365.8	341.0	338.3	327.6	316.8
145°	371.5	350.8	348.5	339.1	329.8
147.5°	379.7	363.1	360.9	351.7	342.7
150°	384.0	369.6	367.5	359.3	351.1
152.5°	386.8	373.8	372.2	366.0	359.8
155°	392.9	383.0	381.9	377.2	372.7
157.5°	399.2	392.4	391.3	386.7	382.2
160°	402.0	396.6	395.7	392.2	388.7
162.5°	405.0	401.1	400.4	397.8	395.2
165°	409.3	407.5	406.9	404.5	402.2
167.5°	412.6	411.1	410.9	409.7	408.6
170°	415.4	415.3	415.1	413.9	412.8
172.5°	415.6	415.6	415.5	415.3	415.1
175°	417.3	418.2	418.2	418.2	418.2
177.5°	417.5	418.2	418.2	418.2	418.2
180°	418.2	418.2	418.2	418.2	418.2

(END OF REPORT)