

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: P934097

Luminaire Tested: SQ4-FA-025U-100D-B35-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934097
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-B35-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

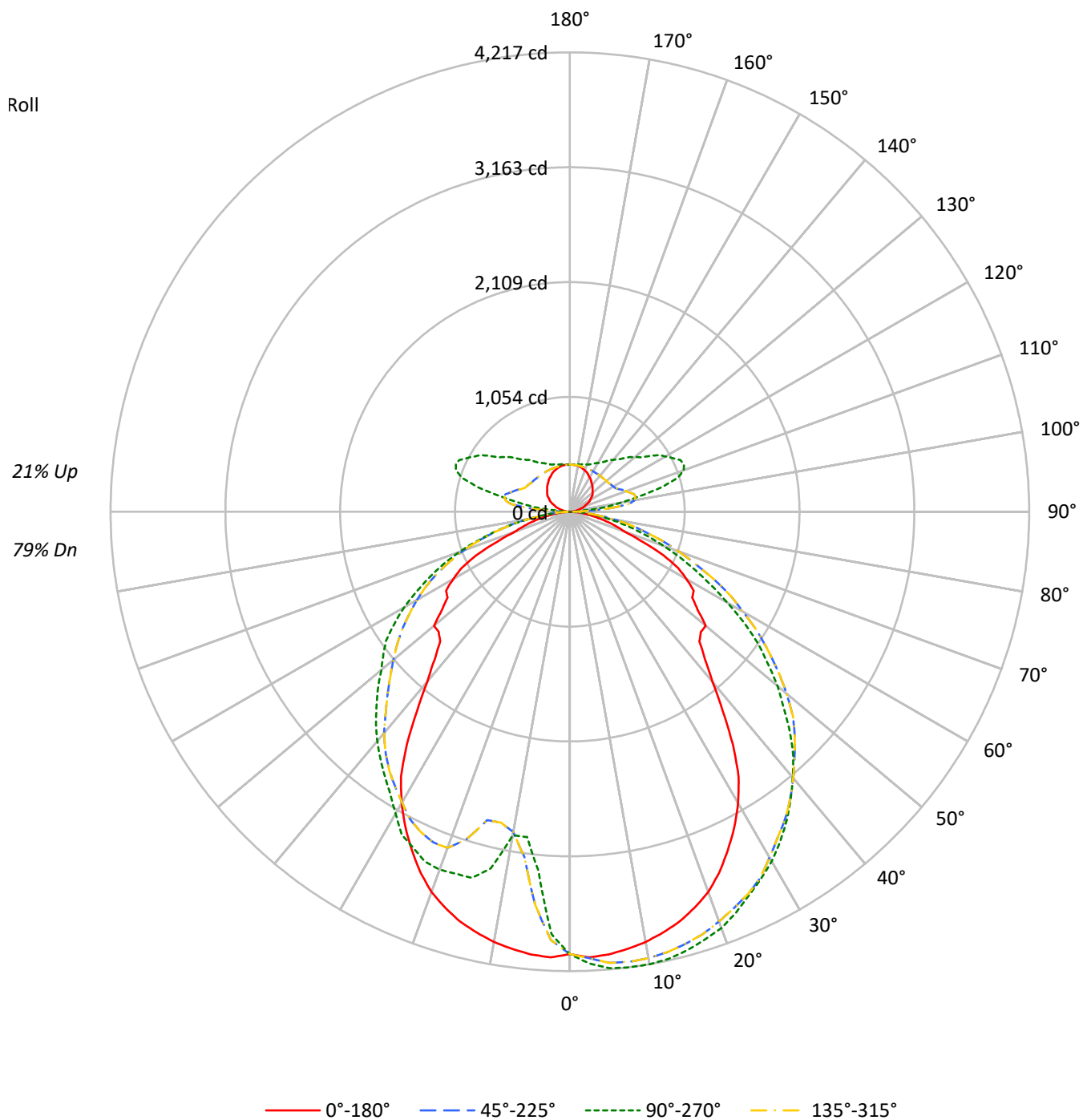
Lumens per Lamp: N/A
Luminaire Lumens: 13340.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

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°	12557	12557	12557	12557
5°	12656	12676	12656	9967
10°	12575	12486	12575	8927
15°	12443	12216	12443	10200
20°	12188	11896	12188	10222
25°	11660	11428	11660	10005
30°	10976	11040	10976	9530
35°	9791	10549	9791	9007
40°	8163	9971	8163	8612
45°	7298	9295	7298	8158
50°	7759	8488	7759	7702
55°	7307	7619	7307	7438
60°	7542	6471	7542	6813
65°	6849	5349	6849	5979
70°	4754	4263	4754	5012
75°	4184	3151	4184	3773
80°	3397	2083	3397	2268
85°	1990	1103	1990	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 11178 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	2.7
10°-20°	1040.5	7.8
20°-30°	1608.4	12.1
30°-40°	1920.1	14.4
40°-50°	1931.4	14.5
50°-60°	1680.5	12.6
60°-70°	1191.5	8.9
70°-80°	630.4	4.7
80°-90°	158.6	1.2
90°-100°	211.5	1.6
100°-110°	556.0	4.2
110°-120°	576.5	4.3
120°-130°	462.4	3.5
130°-140°	362.8	2.7
140°-150°	278.5	2.1
150°-160°	200.6	1.5
160°-170°	122.7	0.9
170°-180°	41.5	0.3
0°-30°	3015.4	22.6
0°-40°	4935.5	37.0
0°-60°	8547.4	64.1
0°-90°	10527.9	78.9
90°-120°	1343.9	10.1
90°-150°	2447.6	18.3
90°-180°	2812.0	21.1
0°-180°	13340.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4060	4060	4060	4060	4060	
5°	4079	4206	4079	3307	4079	387
15°	3895	4167	3895	3480	3895	1096
25°	3430	3887	3430	3403	3430	1575
35°	2608	3468	2608	2961	2608	1613
45°	1682	2858	1682	2508	1682	1348
55°	1371	2109	1371	2059	1371	1260
65°	952	1271	952	1421	952	910
75°	361	603	361	722	361	380
85°	61	154	61	131	61	83
90°	3	11	3	11	3	5
95°	28	128	28	128	28	31
105°	100	870	100	870	100	106
115°	178	1121	178	1121	178	176
125°	248	893	248	893	248	220
135°	295	693	295	693	295	228
145°	342	562	342	562	342	214
155°	387	484	387	484	387	178
165°	417	451	417	451	417	118
175°	434	437	434	437	434	41
180°	434	434	434	434	434	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7
2.5°	4094.3	4094.3	4117.4	4125.0	4125.0	4113.5	4102.0	4113.5	4148.1	4159.6	4155.8
5°	4079.0	4109.7	4152.0	4159.6	4167.3	4163.5	4155.8	4163.5	4201.9	4209.5	4213.4
7.5°	4048.2	4105.8	4159.6	4171.2	4182.7	4171.2	4167.3	4175.0	4213.4	4221.1	4221.1
10°	4009.8	4090.5	4152.0	4159.6	4171.2	4159.6	4159.6	4175.0	4213.4	4221.1	4224.9
12.5°	3956.0	4067.5	4125.0	4132.8	4148.1	4144.2	4140.4	4155.8	4194.2	4201.9	4201.9
15°	3894.6	4025.2	4079.0	4086.7	4113.5	4105.8	4105.8	4121.3	4163.5	4175.0	4171.2
17.5°	3810.1	3971.4	4032.9	4044.4	4063.6	4059.7	4063.6	4079.0	4117.4	4125.0	4128.9
20°	3714.1	3898.5	3971.4	3983.0	4002.2	4002.2	4002.2	4021.4	4059.7	4075.1	4075.1
22.5°	3583.5	3821.6	3898.5	3906.1	3929.2	3929.2	3936.9	3963.7	3998.3	4002.2	4002.2
25°	3429.9	3737.1	3802.5	3825.5	3848.5	3860.0	3871.5	3886.9	3898.5	3894.6	3898.5
27.5°	3268.5	3629.6	3714.1	3729.5	3760.2	3771.7	3787.0	3790.9	3794.7	3806.2	3798.6
30°	3088.0	3479.8	3606.5	3621.9	3671.8	3679.5	3664.2	3671.8	3691.0	3698.8	3706.4
32.5°	2884.4	3257.0	3495.2	3529.7	3575.8	3552.7	3549.0	3560.5	3591.2	3591.2	3598.9
35°	2608.0	3084.2	3391.5	3422.2	3456.7	3429.9	3445.2	3449.1	3468.2	3479.8	3476.0
37.5°	2304.5	2934.4	3283.9	3307.0	3333.8	3299.3	3322.3	3333.8	3349.3	3341.5	3341.5
40°	2035.7	2700.1	3157.2	3172.5	3195.6	3168.7	3191.7	3199.4	3207.1	3199.4	3195.6
42.5°	1836.0	2442.8	3022.7	3042.0	3026.6	3045.8	3053.4	3068.8	3057.3	3042.0	3042.0
45°	1682.3	2373.7	2876.8	2899.8	2876.8	2907.5	2919.0	2919.0	2884.4	2876.8	2873.0
47.5°	1632.4	2235.4	2730.8	2730.8	2719.3	2757.7	2777.0	2750.0	2715.4	2704.0	2704.0
50°	1628.5	2081.7	2531.1	2515.7	2569.5	2615.6	2596.4	2569.5	2542.7	2500.4	2500.4
52.5°	1478.7	1893.5	2273.8	2331.4	2415.9	2442.8	2412.0	2385.2	2339.1	2319.9	2304.5
55°	1371.1	1697.7	2039.5	2154.7	2243.0	2277.6	2220.0	2193.1	2124.0	2112.4	2104.8
57.5°	1348.2	1413.4	1824.4	1970.4	2077.9	2074.0	2039.5	1989.6	1931.9	1920.5	1916.6
60°	1236.7	1021.6	1593.9	1766.8	1878.2	1866.7	1836.0	1789.8	1736.1	1728.4	1720.7
62.5°	1121.5	741.3	1332.8	1528.7	1686.2	1682.3	1655.4	1586.3	1547.9	1528.7	1513.3
65°	952.5	622.2	948.7	1271.3	1497.9	1505.6	1448.0	1398.1	1355.8	1332.8	1328.9
67.5°	725.9	507.0	641.4	1060.1	1317.5	1309.7	1236.7	1213.7	1159.9	1148.4	1125.4
70°	537.7	338.0	445.5	860.4	1140.7	1121.5	1063.9	1037.0	987.1	960.2	944.9
72.5°	445.5	272.7	326.5	668.3	960.2	937.1	887.2	856.5	814.3	791.2	775.9
75°	361.0	288.1	249.6	495.4	779.7	764.3	718.2	687.5	652.9	622.2	626.1
77.5°	265.0	268.9	199.7	364.9	618.4	595.4	568.4	530.0	514.6	483.9	483.9
80°	199.7	211.2	149.8	249.6	445.5	445.5	422.5	395.6	368.7	353.4	353.4
82.5°	134.4	134.4	111.3	157.5	303.4	291.9	276.6	268.9	253.5	245.8	245.8
85°	61.4	76.8	69.1	96.0	165.1	172.9	172.9	165.1	161.3	153.6	157.5
87.5°	19.2	34.6	42.2	53.8	84.5	88.4	92.2	92.2	92.2	96.0	96.0
90°	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.7	14.7	11.0	11.0
92.5°	11.6	31.4	51.3	56.2	79.0	109.4	124.6	109.2	78.4	55.3	53.1
95°	27.9	64.1	100.4	109.5	194.4	307.7	364.2	325.0	246.6	187.8	181.1
97.5°	48.4	80.3	112.3	120.3	261.8	450.7	545.1	520.3	470.7	433.5	420.8
100°	64.1	93.0	122.0	129.3	286.4	495.9	600.7	602.5	606.1	608.8	593.7
102.5°	77.4	104.5	131.5	138.3	297.7	510.2	616.4	648.0	711.1	758.4	745.5
105°	100.2	123.1	145.9	151.6	306.0	511.7	614.6	685.4	826.9	933.1	926.2
107.5°	123.5	144.8	166.2	171.5	307.6	489.0	579.7	678.4	875.9	1024.0	1025.7
110°	139.1	158.4	177.7	182.6	305.2	468.8	550.6	661.0	881.7	1047.3	1054.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	154.7	173.0	191.4	195.9	305.3	451.2	524.1	637.1	863.0	1032.5	1043.6
115°	177.9	194.9	211.8	216.1	308.1	430.9	492.3	601.2	818.8	982.1	997.5
117.5°	200.9	216.3	231.7	235.6	313.9	418.3	470.5	568.8	765.2	912.5	929.7
120°	214.2	228.8	243.3	246.9	318.5	414.0	461.7	551.5	731.0	865.6	882.3
122.5°	227.4	242.1	256.6	260.3	325.2	411.7	455.0	535.9	697.5	818.7	835.1
125°	247.5	260.9	274.2	277.5	334.3	410.0	447.8	516.4	653.7	756.7	771.8
127.5°	263.8	277.2	290.7	294.1	343.3	408.9	441.7	500.6	618.5	706.9	719.7
130°	272.5	287.0	301.6	305.1	349.9	409.5	439.3	491.9	596.8	675.5	687.3
132.5°	281.6	296.0	310.6	314.1	355.2	410.0	437.3	484.3	578.3	648.7	659.3
135°	295.0	308.1	321.3	324.6	361.0	409.6	433.8	473.2	551.8	610.9	620.0
137.5°	308.6	321.7	334.7	338.0	369.8	412.1	433.2	466.5	532.9	582.9	590.3
140°	320.0	332.0	344.1	347.1	375.1	412.5	431.2	459.9	517.3	560.5	567.4
142.5°	328.7	339.8	351.0	353.8	379.6	414.0	431.2	456.4	506.9	544.8	550.8
145°	342.2	351.8	361.5	364.0	385.4	414.0	428.3	448.9	490.2	521.1	525.7
147.5°	355.5	364.9	374.4	376.7	393.9	416.9	428.3	444.6	477.0	501.4	505.1
150°	364.2	372.8	381.3	383.4	398.4	418.3	428.3	442.1	469.5	490.0	493.0
152.5°	373.3	379.8	386.1	387.8	401.3	419.3	428.3	440.0	463.5	481.0	483.3
155°	386.6	391.4	396.2	397.4	407.7	421.4	428.3	437.6	456.3	470.3	471.8
157.5°	396.5	401.2	405.9	407.1	414.2	423.5	428.3	435.6	450.0	460.9	461.9
160°	403.3	406.9	410.6	411.4	417.1	424.5	428.3	434.5	446.9	456.2	456.8
162.5°	410.0	412.7	415.4	416.1	420.2	425.6	428.3	433.5	444.0	451.8	452.4
165°	417.3	419.7	422.2	422.8	424.6	427.0	428.3	432.1	439.5	445.2	445.7
167.5°	423.9	425.1	426.3	426.6	428.1	430.1	431.2	433.6	438.6	442.3	442.5
170°	428.3	429.5	430.6	430.9	431.0	431.1	431.2	433.6	438.6	442.3	442.3
172.5°	430.6	430.9	431.1	431.2	431.2	431.2	431.2	433.1	437.0	439.9	439.7
175°	433.8	433.8	433.8	433.8	432.9	431.8	431.2	432.5	434.9	436.7	436.7
177.5°	433.8	433.8	433.8	433.8	433.1	432.3	431.8	432.8	434.7	436.1	435.9
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7
2.5°	4163.5	4152.0	4163.5	4155.8	4159.6	4148.1	4113.5	4102.0	4113.5	4125.0	4125.0
5°	4213.4	4205.8	4213.4	4213.4	4209.5	4201.9	4163.5	4155.8	4163.5	4167.3	4159.6
7.5°	4228.7	4217.3	4228.7	4221.1	4221.1	4213.4	4175.0	4167.3	4171.2	4182.7	4171.2
10°	4228.7	4217.3	4228.7	4224.9	4221.1	4213.4	4175.0	4159.6	4159.6	4171.2	4159.6
12.5°	4209.5	4201.9	4209.5	4201.9	4201.9	4194.2	4155.8	4140.4	4144.2	4148.1	4132.8
15°	4178.8	4167.3	4178.8	4171.2	4175.0	4163.5	4121.3	4105.8	4105.8	4113.5	4086.7
17.5°	4132.8	4117.4	4132.8	4128.9	4125.0	4117.4	4079.0	4063.6	4059.7	4063.6	4044.4
20°	4079.0	4067.5	4079.0	4075.1	4075.1	4059.7	4021.4	4002.2	4002.2	4002.2	3983.0
22.5°	3994.5	3983.0	3994.5	4002.2	4002.2	3998.3	3963.7	3936.9	3929.2	3929.2	3906.1
25°	3898.5	3886.9	3898.5	3898.5	3894.6	3898.5	3886.9	3871.5	3860.0	3848.5	3825.5
27.5°	3806.2	3798.6	3806.2	3798.6	3806.2	3794.7	3790.9	3787.0	3771.7	3760.2	3729.5
30°	3714.1	3706.4	3714.1	3706.4	3698.8	3691.0	3671.8	3664.2	3679.5	3671.8	3621.9
32.5°	3598.9	3591.2	3598.9	3598.9	3591.2	3591.2	3560.5	3549.0	3552.7	3575.8	3529.7
35°	3479.8	3468.2	3479.8	3476.0	3479.8	3468.2	3449.1	3445.2	3429.9	3456.7	3422.2
37.5°	3341.5	3330.0	3341.5	3341.5	3341.5	3349.3	3333.8	3322.3	3299.3	3333.8	3307.0
40°	3199.4	3184.0	3199.4	3195.6	3199.4	3207.1	3199.4	3191.7	3168.7	3195.6	3172.5
42.5°	3038.1	3034.2	3038.1	3042.0	3042.0	3057.3	3068.8	3053.4	3045.8	3026.6	3042.0
45°	2865.2	2857.6	2865.2	2873.0	2876.8	2884.4	2919.0	2919.0	2907.5	2876.8	2899.8
47.5°	2680.9	2661.7	2680.9	2704.0	2704.0	2715.4	2750.0	2777.0	2757.7	2719.3	2730.8
50°	2485.0	2488.9	2485.0	2500.4	2500.4	2542.7	2569.5	2596.4	2615.6	2569.5	2515.7
52.5°	2292.9	2289.2	2292.9	2304.5	2319.9	2339.1	2385.2	2412.0	2442.8	2415.9	2331.4
55°	2100.9	2108.6	2100.9	2104.8	2112.4	2124.0	2193.1	2220.0	2277.6	2243.0	2154.7
57.5°	1908.9	1897.4	1908.9	1916.6	1920.5	1931.9	1989.6	2039.5	2074.0	2077.9	1970.4
60°	1686.2	1670.7	1686.2	1720.7	1728.4	1736.1	1789.8	1836.0	1866.7	1878.2	1766.8
62.5°	1490.2	1463.4	1490.2	1513.3	1528.7	1547.9	1586.3	1655.4	1682.3	1686.2	1528.7
65°	1282.9	1271.3	1282.9	1328.9	1332.8	1355.8	1398.1	1448.0	1505.6	1497.9	1271.3
67.5°	1094.7	1094.7	1094.7	1125.4	1148.4	1159.9	1213.7	1236.7	1309.7	1317.5	1060.1
70°	921.8	917.9	921.8	944.9	960.2	987.1	1037.0	1063.9	1121.5	1140.7	860.4
72.5°	756.7	752.8	756.7	775.9	791.2	814.3	856.5	887.2	937.1	960.2	668.3
75°	610.7	603.0	610.7	626.1	622.2	652.9	687.5	718.2	764.3	779.7	495.4
77.5°	468.6	468.6	468.6	483.9	483.9	514.6	530.0	568.4	595.4	618.4	364.9
80°	349.5	345.6	349.5	353.4	353.4	368.7	395.6	422.5	445.5	445.5	249.6
82.5°	245.8	238.1	245.8	245.8	245.8	253.5	268.9	276.6	291.9	303.4	157.5
85°	153.6	153.6	153.6	157.5	153.6	161.3	165.1	172.9	172.9	165.1	96.0
87.5°	99.9	96.0	99.9	96.0	96.0	92.2	92.2	92.2	88.4	84.5	53.8
90°	11.0	11.0	11.0	11.0	11.0	14.7	19.7	22.1	19.0	12.8	8.1
92.5°	44.4	35.6	44.4	53.1	55.3	78.4	109.2	124.6	109.4	79.0	56.2
95°	154.5	127.8	154.5	181.1	187.8	246.6	325.0	364.2	307.7	194.4	109.5
97.5°	370.2	319.4	370.2	420.8	433.5	470.7	520.3	545.1	450.7	261.8	120.3
100°	533.3	472.9	533.3	593.7	608.8	606.1	602.5	600.7	495.9	286.4	129.3
102.5°	693.7	642.0	693.7	745.5	758.4	711.1	648.0	616.4	510.2	297.7	138.3
105°	898.4	870.5	898.4	926.2	933.1	826.9	685.4	614.6	511.7	306.0	151.6
107.5°	1032.5	1039.2	1032.5	1025.7	1024.0	875.9	678.4	579.7	489.0	307.6	171.5
110°	1083.5	1112.5	1083.5	1054.6	1047.3	881.7	661.0	550.6	468.8	305.2	182.6

TEST NUMBER: P934097

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1088.1	1132.6	1088.1	1043.6	1032.5	863.0	637.1	524.1	451.2	305.3	195.9
115°	1059.2	1120.9	1059.2	997.5	982.1	818.8	601.2	492.3	430.9	308.1	216.1
117.5°	998.1	1066.5	998.1	929.7	912.5	765.2	568.8	470.5	418.3	313.9	235.6
120°	948.7	1015.2	948.7	882.3	865.6	731.0	551.5	461.7	414.0	318.5	246.9
122.5°	900.8	966.4	900.8	835.1	818.7	697.5	535.9	455.0	411.7	325.2	260.3
125°	832.2	892.6	832.2	771.8	756.7	653.7	516.4	447.8	410.0	334.3	277.5
127.5°	770.6	821.6	770.6	719.7	706.9	618.5	500.6	441.7	408.9	343.3	294.1
130°	734.4	781.5	734.4	687.3	675.5	596.8	491.9	439.3	409.5	349.9	305.1
132.5°	701.5	743.6	701.5	659.3	648.7	578.3	484.3	437.3	410.0	355.2	314.1
135°	656.3	692.6	656.3	620.0	610.9	551.8	473.2	433.8	409.6	361.0	324.6
137.5°	620.1	649.9	620.1	590.3	582.9	532.9	466.5	433.2	412.1	369.8	338.0
140°	595.3	623.1	595.3	567.4	560.5	517.3	459.9	431.2	412.5	375.1	347.1
142.5°	574.7	598.6	574.7	550.8	544.8	506.9	456.4	431.2	414.0	379.6	353.8
145°	543.8	561.9	543.8	525.7	521.1	490.2	448.9	428.3	414.0	385.4	364.0
147.5°	520.2	535.2	520.2	505.1	501.4	477.0	444.6	428.3	416.9	393.9	376.7
150°	505.2	517.3	505.2	493.0	490.0	469.5	442.1	428.3	418.3	398.4	383.4
152.5°	492.4	501.7	492.4	483.3	481.0	463.5	440.0	428.3	419.3	401.3	387.8
155°	477.8	483.9	477.8	471.8	470.3	456.3	437.6	428.3	421.4	407.7	397.4
157.5°	466.3	470.5	466.3	461.9	460.9	450.0	435.6	428.3	423.5	414.2	407.1
160°	459.3	461.7	459.3	456.8	456.2	446.9	434.5	428.3	424.5	417.1	411.4
162.5°	454.8	457.1	454.8	452.4	451.8	444.0	433.5	428.3	425.6	420.2	416.1
165°	448.3	450.7	448.3	445.7	445.2	439.5	432.1	428.3	427.0	424.6	422.8
167.5°	443.5	444.6	443.5	442.5	442.3	438.6	433.6	431.2	430.1	428.1	426.6
170°	442.3	442.3	442.3	442.3	442.3	438.6	433.6	431.2	431.1	431.0	430.9
172.5°	438.8	437.9	438.8	439.7	439.9	437.0	433.1	431.2	431.2	431.2	431.2
175°	436.7	436.7	436.7	436.7	436.7	434.9	432.5	431.2	431.8	432.9	433.8
177.5°	434.9	433.8	434.9	435.9	436.1	434.7	432.8	431.8	432.3	433.1	433.8
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8

TEST NUMBER: P934097

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7
2.5°	4117.4	4094.3	4094.3	4055.9	4040.5	4029.0	4009.8	3952.3	3936.9	3921.4	3944.5
5°	4152.0	4109.7	4079.0	4009.8	3952.3	3929.2	3856.2	3718.0	3625.7	3556.6	3518.2
7.5°	4159.6	4105.8	4048.2	3940.7	3802.5	3741.0	3518.2	3264.8	3195.6	3134.1	3095.7
10°	4152.0	4090.5	4009.8	3848.5	3522.0	3414.5	3191.7	3026.6	2984.3	2972.8	2984.3
12.5°	4125.0	4067.5	3956.0	3687.2	3230.2	3157.2	3026.6	2930.5	2922.9	2942.1	3045.8
15°	4079.0	4025.2	3894.6	3472.1	3068.8	3015.0	2922.9	2888.3	2930.5	3064.9	3376.1
17.5°	4032.9	3971.4	3810.1	3260.9	2946.0	2907.5	2842.2	2911.4	3149.4	3330.0	3433.7
20°	3971.4	3898.5	3714.1	3107.2	2857.6	2823.0	2792.3	3103.4	3283.9	3349.3	3406.8
22.5°	3898.5	3821.6	3583.5	2999.7	2765.4	2738.5	2757.7	3211.0	3283.9	3330.0	3380.0
25°	3802.5	3737.1	3429.9	2915.2	2692.5	2661.7	2734.7	3199.4	3241.7	3253.2	3353.0
27.5°	3714.1	3629.6	3268.5	2838.4	2604.1	2592.6	2753.9	3149.4	3180.3	3191.7	3299.3
30°	3606.5	3479.8	3088.0	2757.7	2511.9	2508.1	2757.7	3088.0	3080.4	3111.1	3218.6
32.5°	3495.2	3257.0	2884.4	2657.9	2423.6	2419.7	2730.8	2995.9	2988.2	3030.5	3111.1
35°	3391.5	3084.2	2608.0	2542.7	2312.2	2316.0	2665.5	2888.3	2892.2	2930.5	2980.5
37.5°	3283.9	2934.4	2304.5	2415.9	2204.7	2204.7	2577.2	2788.5	2780.7	2792.3	2861.5
40°	3157.2	2700.1	2035.7	2250.7	2104.8	2093.2	2469.7	2680.9	2654.0	2650.2	2746.2
42.5°	3022.7	2442.8	1836.0	2031.8	1989.6	1974.1	2339.1	2550.3	2500.4	2511.9	2634.8
45°	2876.8	2373.7	1682.3	1716.9	1870.5	1858.9	2196.9	2400.5	2365.9	2396.7	2523.5
47.5°	2730.8	2235.4	1632.4	1424.9	1743.7	1739.9	2039.5	2254.6	2235.4	2266.1	2400.5
50°	2531.1	2081.7	1628.5	1221.4	1601.7	1617.0	1851.3	2112.4	2112.4	2139.4	2281.4
52.5°	2273.8	1893.5	1478.7	1106.1	1436.4	1482.6	1686.2	1989.6	1997.2	2024.1	2150.9
55°	2039.5	1697.7	1371.1	1017.8	1240.6	1340.4	1524.8	1862.8	1878.2	1905.1	2020.3
57.5°	1824.4	1413.4	1348.2	914.2	1060.1	1156.1	1382.7	1739.9	1747.6	1770.7	1882.0
60°	1593.9	1021.6	1236.7	802.7	902.6	975.6	1252.1	1593.9	1620.8	1636.2	1732.2
62.5°	1332.8	741.3	1121.5	725.9	825.8	841.2	1144.6	1455.6	1490.2	1501.8	1559.4
65°	948.7	622.2	952.5	660.7	745.2	748.9	1029.4	1313.6	1344.3	1363.5	1405.7
67.5°	641.4	507.0	725.9	599.1	683.6	687.5	917.9	1148.4	1190.6	1206.0	1233.0
70°	445.5	338.0	537.7	533.9	614.5	622.2	798.9	998.7	1037.0	1048.6	1063.9
72.5°	326.5	272.7	445.5	480.1	541.6	549.2	676.0	829.7	868.0	879.6	887.2
75°	249.6	288.1	361.0	418.6	460.9	464.7	553.1	676.0	702.9	710.6	714.3
77.5°	199.7	268.9	265.0	338.0	376.4	368.7	434.0	522.4	545.4	545.4	545.4
80°	149.8	211.2	199.7	242.0	276.6	268.9	311.1	372.6	380.2	387.9	384.1
82.5°	111.3	134.4	134.4	153.6	184.4	176.6	207.4	242.0	242.0	242.0	249.6
85°	69.1	76.8	61.4	80.6	103.7	99.9	115.2	130.6	134.4	134.4	126.7
87.5°	42.2	34.6	19.2	30.7	46.1	46.1	53.8	57.7	53.8	53.8	53.8
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.7	14.7
92.5°	51.3	31.4	11.6	31.4	51.3	56.2	79.0	109.4	124.6	109.2	78.4
95°	100.4	64.1	27.9	64.1	100.4	109.5	194.4	307.7	364.2	325.0	246.6
97.5°	112.3	80.3	48.4	80.3	112.3	120.3	261.8	450.7	545.1	520.3	470.7
100°	122.0	93.0	64.1	93.0	122.0	129.3	286.4	495.9	600.7	602.5	606.1
102.5°	131.5	104.5	77.4	104.5	131.5	138.3	297.7	510.2	616.4	648.0	711.1
105°	145.9	123.1	100.2	123.1	145.9	151.6	306.0	511.7	614.6	685.4	826.9
107.5°	166.2	144.8	123.5	144.8	166.2	171.5	307.6	489.0	579.7	678.4	875.9
110°	177.7	158.4	139.1	158.4	177.7	182.6	305.2	468.8	550.6	661.0	881.7

TEST NUMBER: P934097

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	191.4	173.0	154.7	173.0	191.4	195.9	305.3	451.2	524.1	637.1	863.0
115°	211.8	194.9	177.9	194.9	211.8	216.1	308.1	430.9	492.3	601.2	818.8
117.5°	231.7	216.3	200.9	216.3	231.7	235.6	313.9	418.3	470.5	568.8	765.2
120°	243.3	228.8	214.2	228.8	243.3	246.9	318.5	414.0	461.7	551.5	731.0
122.5°	256.6	242.1	227.4	242.1	256.6	260.3	325.2	411.7	455.0	535.9	697.5
125°	274.2	260.9	247.5	260.9	274.2	277.5	334.3	410.0	447.8	516.4	653.7
127.5°	290.7	277.2	263.8	277.2	290.7	294.1	343.3	408.9	441.7	500.6	618.5
130°	301.6	287.0	272.5	287.0	301.6	305.1	349.9	409.5	439.3	491.9	596.8
132.5°	310.6	296.0	281.6	296.0	310.6	314.1	355.2	410.0	437.3	484.3	578.3
135°	321.3	308.1	295.0	308.1	321.3	324.6	361.0	409.6	433.8	473.2	551.8
137.5°	334.7	321.7	308.6	321.7	334.7	338.0	369.8	412.1	433.2	466.5	532.9
140°	344.1	332.0	320.0	332.0	344.1	347.1	375.1	412.5	431.2	459.9	517.3
142.5°	351.0	339.8	328.7	339.8	351.0	353.8	379.6	414.0	431.2	456.4	506.9
145°	361.5	351.8	342.2	351.8	361.5	364.0	385.4	414.0	428.3	448.9	490.2
147.5°	374.4	364.9	355.5	364.9	374.4	376.7	393.9	416.9	428.3	444.6	477.0
150°	381.3	372.8	364.2	372.8	381.3	383.4	398.4	418.3	428.3	442.1	469.5
152.5°	386.1	379.8	373.3	379.8	386.1	387.8	401.3	419.3	428.3	440.0	463.5
155°	396.2	391.4	386.6	391.4	396.2	397.4	407.7	421.4	428.3	437.6	456.3
157.5°	405.9	401.2	396.5	401.2	405.9	407.1	414.2	423.5	428.3	435.6	450.0
160°	410.6	406.9	403.3	406.9	410.6	411.4	417.1	424.5	428.3	434.5	446.9
162.5°	415.4	412.7	410.0	412.7	415.4	416.1	420.2	425.6	428.3	433.5	444.0
165°	422.2	419.7	417.3	419.7	422.2	422.8	424.6	427.0	428.3	432.1	439.5
167.5°	426.3	425.1	423.9	425.1	426.3	426.6	428.1	430.1	431.2	433.6	438.6
170°	430.6	429.5	428.3	429.5	430.6	430.9	431.0	431.1	431.2	433.6	438.6
172.5°	431.1	430.9	430.6	430.9	431.1	431.2	431.2	431.2	431.2	433.1	437.0
175°	433.8	433.8	433.8	433.8	433.8	433.8	432.9	431.8	431.2	432.5	434.9
177.5°	433.8	433.8	433.8	433.8	433.8	433.8	433.1	432.3	431.8	432.8	434.7
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8

TEST NUMBER: P934097

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7
2.5°	3917.7	3906.1	3921.4	3879.2	3921.4	3906.1	3917.7	3944.5	3921.4	3936.9	3952.3
5°	3437.5	3418.3	3356.9	3307.0	3356.9	3418.3	3437.5	3518.2	3556.6	3625.7	3718.0
7.5°	3072.7	3057.3	3042.0	3011.2	3042.0	3057.3	3072.7	3095.7	3134.1	3195.6	3264.8
10°	2992.0	2995.9	3018.9	3015.0	3018.9	2995.9	2992.0	2984.3	2972.8	2984.3	3026.6
12.5°	3199.4	3233.9	3360.7	3353.0	3360.7	3233.9	3199.4	3045.8	2942.1	2922.9	2930.5
15°	3437.5	3449.1	3476.0	3479.8	3476.0	3449.1	3437.5	3376.1	3064.9	2930.5	2888.3
17.5°	3460.6	3464.5	3483.7	3483.7	3483.7	3464.5	3460.6	3433.7	3330.0	3149.4	2911.4
20°	3441.4	3449.1	3487.4	3495.2	3487.4	3449.1	3441.4	3406.8	3349.3	3283.9	3103.4
22.5°	3433.7	3449.1	3479.8	3476.0	3479.8	3449.1	3433.7	3380.0	3330.0	3283.9	3211.0
25°	3395.3	3395.3	3399.2	3402.9	3399.2	3395.3	3395.3	3353.0	3253.2	3241.7	3199.4
27.5°	3314.7	3322.3	3345.4	3341.5	3345.4	3322.3	3314.7	3299.3	3191.7	3180.3	3149.4
30°	3241.7	3233.9	3214.8	3199.4	3214.8	3233.9	3241.7	3218.6	3111.1	3080.4	3088.0
32.5°	3118.7	3099.5	3080.4	3068.8	3080.4	3099.5	3118.7	3111.1	3030.5	2988.2	2995.9
35°	2972.8	2976.7	2972.8	2961.3	2972.8	2976.7	2972.8	2980.5	2930.5	2892.2	2888.3
37.5°	2869.1	2876.8	2873.0	2857.6	2873.0	2876.8	2869.1	2861.5	2792.3	2780.7	2788.5
40°	2761.6	2765.4	2761.6	2750.0	2761.6	2765.4	2761.6	2746.2	2650.2	2654.0	2680.9
42.5°	2657.9	2654.0	2642.5	2634.8	2642.5	2654.0	2657.9	2634.8	2511.9	2500.4	2550.3
45°	2538.8	2542.7	2519.6	2508.1	2519.6	2542.7	2538.8	2523.5	2396.7	2365.9	2400.5
47.5°	2419.7	2419.7	2400.5	2389.0	2400.5	2419.7	2419.7	2400.5	2266.1	2235.4	2254.6
50°	2292.9	2289.2	2262.2	2258.4	2262.2	2289.2	2292.9	2281.4	2139.4	2112.4	2112.4
52.5°	2147.0	2147.0	2150.9	2158.5	2150.9	2147.0	2147.0	2150.9	2024.1	1997.2	1989.6
55°	2020.3	2024.1	2051.0	2058.6	2051.0	2024.1	2020.3	2020.3	1905.1	1878.2	1862.8
57.5°	1889.6	1889.6	1908.9	1908.9	1908.9	1889.6	1889.6	1882.0	1770.7	1747.6	1739.9
60°	1739.9	1747.6	1762.9	1759.1	1762.9	1747.6	1739.9	1732.2	1636.2	1620.8	1593.9
62.5°	1582.4	1590.1	1593.9	1586.3	1593.9	1590.1	1582.4	1559.4	1501.8	1490.2	1455.6
65°	1417.3	1424.9	1428.8	1421.1	1428.8	1424.9	1417.3	1405.7	1363.5	1344.3	1313.6
67.5°	1248.3	1244.4	1240.6	1255.9	1240.6	1244.4	1248.3	1233.0	1206.0	1190.6	1148.4
70°	1075.4	1075.4	1071.6	1079.3	1071.6	1075.4	1075.4	1063.9	1048.6	1037.0	998.7
72.5°	891.1	887.2	902.6	891.1	902.6	887.2	891.1	887.2	879.6	868.0	829.7
75°	710.6	718.2	710.6	722.1	710.6	718.2	710.6	714.3	710.6	702.9	676.0
77.5°	541.6	549.2	541.6	541.6	541.6	549.2	541.6	545.4	545.4	545.4	522.4
80°	384.1	380.2	380.2	376.4	380.2	380.2	384.1	384.1	387.9	380.2	372.6
82.5°	245.8	242.0	242.0	249.6	242.0	242.0	245.8	249.6	242.0	242.0	242.0
85°	134.4	138.3	130.6	130.6	130.6	138.3	134.4	126.7	134.4	134.4	130.6
87.5°	49.9	46.1	46.1	46.1	46.1	46.1	49.9	53.8	53.8	53.8	57.7
90°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	19.7	22.1	19.0
92.5°	55.3	53.1	44.4	35.6	44.4	53.1	55.3	78.4	109.2	124.6	109.4
95°	187.8	181.1	154.5	127.8	154.5	181.1	187.8	246.6	325.0	364.2	307.7
97.5°	433.5	420.8	370.2	319.4	370.2	420.8	433.5	470.7	520.3	545.1	450.7
100°	608.8	593.7	533.3	472.9	533.3	593.7	608.8	606.1	602.5	600.7	495.9
102.5°	758.4	745.5	693.7	642.0	693.7	745.5	758.4	711.1	648.0	616.4	510.2
105°	933.1	926.2	898.4	870.5	898.4	926.2	933.1	826.9	685.4	614.6	511.7
107.5°	1024.0	1025.7	1032.5	1039.2	1032.5	1025.7	1024.0	875.9	678.4	579.7	489.0
110°	1047.3	1054.6	1083.5	1112.5	1083.5	1054.6	1047.3	881.7	661.0	550.6	468.8

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1032.5	1043.6	1088.1	1132.6	1088.1	1043.6	1032.5	863.0	637.1	524.1	451.2
115°	982.1	997.5	1059.2	1120.9	1059.2	997.5	982.1	818.8	601.2	492.3	430.9
117.5°	912.5	929.7	998.1	1066.5	998.1	929.7	912.5	765.2	568.8	470.5	418.3
120°	865.6	882.3	948.7	1015.2	948.7	882.3	865.6	731.0	551.5	461.7	414.0
122.5°	818.7	835.1	900.8	966.4	900.8	835.1	818.7	697.5	535.9	455.0	411.7
125°	756.7	771.8	832.2	892.6	832.2	771.8	756.7	653.7	516.4	447.8	410.0
127.5°	706.9	719.7	770.6	821.6	770.6	719.7	706.9	618.5	500.6	441.7	408.9
130°	675.5	687.3	734.4	781.5	734.4	687.3	675.5	596.8	491.9	439.3	409.5
132.5°	648.7	659.3	701.5	743.6	701.5	659.3	648.7	578.3	484.3	437.3	410.0
135°	610.9	620.0	656.3	692.6	656.3	620.0	610.9	551.8	473.2	433.8	409.6
137.5°	582.9	590.3	620.1	649.9	620.1	590.3	582.9	532.9	466.5	433.2	412.1
140°	560.5	567.4	595.3	623.1	595.3	567.4	560.5	517.3	459.9	431.2	412.5
142.5°	544.8	550.8	574.7	598.6	574.7	550.8	544.8	506.9	456.4	431.2	414.0
145°	521.1	525.7	543.8	561.9	543.8	525.7	521.1	490.2	448.9	428.3	414.0
147.5°	501.4	505.1	520.2	535.2	520.2	505.1	501.4	477.0	444.6	428.3	416.9
150°	490.0	493.0	505.2	517.3	505.2	493.0	490.0	469.5	442.1	428.3	418.3
152.5°	481.0	483.3	492.4	501.7	492.4	483.3	481.0	463.5	440.0	428.3	419.3
155°	470.3	471.8	477.8	483.9	477.8	471.8	470.3	456.3	437.6	428.3	421.4
157.5°	460.9	461.9	466.3	470.5	466.3	461.9	460.9	450.0	435.6	428.3	423.5
160°	456.2	456.8	459.3	461.7	459.3	456.8	456.2	446.9	434.5	428.3	424.5
162.5°	451.8	452.4	454.8	457.1	454.8	452.4	451.8	444.0	433.5	428.3	425.6
165°	445.2	445.7	448.3	450.7	448.3	445.7	445.2	439.5	432.1	428.3	427.0
167.5°	442.3	442.5	443.5	444.6	443.5	442.5	442.3	438.6	433.6	431.2	430.1
170°	442.3	442.3	442.3	442.3	442.3	442.3	442.3	438.6	433.6	431.2	431.1
172.5°	439.9	439.7	438.8	437.9	438.8	439.7	439.9	437.0	433.1	431.2	431.2
175°	436.7	436.7	436.7	436.7	436.7	436.7	436.7	434.9	432.5	431.2	431.8
177.5°	436.1	435.9	434.9	433.8	434.9	435.9	436.1	434.7	432.8	431.8	432.3
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4059.7	4059.7	4059.7	4059.7	4059.7
2.5°	4009.8	4029.0	4040.5	4055.9	4094.3
5°	3856.2	3929.2	3952.3	4009.8	4079.0
7.5°	3518.2	3741.0	3802.5	3940.7	4048.2
10°	3191.7	3414.5	3522.0	3848.5	4009.8
12.5°	3026.6	3157.2	3230.2	3687.2	3956.0
15°	2922.9	3015.0	3068.8	3472.1	3894.6
17.5°	2842.2	2907.5	2946.0	3260.9	3810.1
20°	2792.3	2823.0	2857.6	3107.2	3714.1
22.5°	2757.7	2738.5	2765.4	2999.7	3583.5
25°	2734.7	2661.7	2692.5	2915.2	3429.9
27.5°	2753.9	2592.6	2604.1	2838.4	3268.5
30°	2757.7	2508.1	2511.9	2757.7	3088.0
32.5°	2730.8	2419.7	2423.6	2657.9	2884.4
35°	2665.5	2316.0	2312.2	2542.7	2608.0
37.5°	2577.2	2204.7	2204.7	2415.9	2304.5
40°	2469.7	2093.2	2104.8	2250.7	2035.7
42.5°	2339.1	1974.1	1989.6	2031.8	1836.0
45°	2196.9	1858.9	1870.5	1716.9	1682.3
47.5°	2039.5	1739.9	1743.7	1424.9	1632.4
50°	1851.3	1617.0	1601.7	1221.4	1628.5
52.5°	1686.2	1482.6	1436.4	1106.1	1478.7
55°	1524.8	1340.4	1240.6	1017.8	1371.1
57.5°	1382.7	1156.1	1060.1	914.2	1348.2
60°	1252.1	975.6	902.6	802.7	1236.7
62.5°	1144.6	841.2	825.8	725.9	1121.5
65°	1029.4	748.9	745.2	660.7	952.5
67.5°	917.9	687.5	683.6	599.1	725.9
70°	798.9	622.2	614.5	533.9	537.7
72.5°	676.0	549.2	541.6	480.1	445.5
75°	553.1	464.7	460.9	418.6	361.0
77.5°	434.0	368.7	376.4	338.0	265.0
80°	311.1	268.9	276.6	242.0	199.7
82.5°	207.4	176.6	184.4	153.6	134.4
85°	115.2	99.9	103.7	80.6	61.4
87.5°	53.8	46.1	46.1	30.7	19.2
90°	12.8	8.1	7.6	5.2	2.9
92.5°	79.0	56.2	51.3	31.4	11.6
95°	194.4	109.5	100.4	64.1	27.9
97.5°	261.8	120.3	112.3	80.3	48.4
100°	286.4	129.3	122.0	93.0	64.1
102.5°	297.7	138.3	131.5	104.5	77.4
105°	306.0	151.6	145.9	123.1	100.2
107.5°	307.6	171.5	166.2	144.8	123.5
110°	305.2	182.6	177.7	158.4	139.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	305.3	195.9	191.4	173.0	154.7
115°	308.1	216.1	211.8	194.9	177.9
117.5°	313.9	235.6	231.7	216.3	200.9
120°	318.5	246.9	243.3	228.8	214.2
122.5°	325.2	260.3	256.6	242.1	227.4
125°	334.3	277.5	274.2	260.9	247.5
127.5°	343.3	294.1	290.7	277.2	263.8
130°	349.9	305.1	301.6	287.0	272.5
132.5°	355.2	314.1	310.6	296.0	281.6
135°	361.0	324.6	321.3	308.1	295.0
137.5°	369.8	338.0	334.7	321.7	308.6
140°	375.1	347.1	344.1	332.0	320.0
142.5°	379.6	353.8	351.0	339.8	328.7
145°	385.4	364.0	361.5	351.8	342.2
147.5°	393.9	376.7	374.4	364.9	355.5
150°	398.4	383.4	381.3	372.8	364.2
152.5°	401.3	387.8	386.1	379.8	373.3
155°	407.7	397.4	396.2	391.4	386.6
157.5°	414.2	407.1	405.9	401.2	396.5
160°	417.1	411.4	410.6	406.9	403.3
162.5°	420.2	416.1	415.4	412.7	410.0
165°	424.6	422.8	422.2	419.7	417.3
167.5°	428.1	426.6	426.3	425.1	423.9
170°	431.0	430.9	430.6	429.5	428.3
172.5°	431.2	431.2	431.1	430.9	430.6
175°	432.9	433.8	433.8	433.8	433.8
177.5°	433.1	433.8	433.8	433.8	433.8
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)