

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: P934604

Luminaire Tested: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934604
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-B40-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

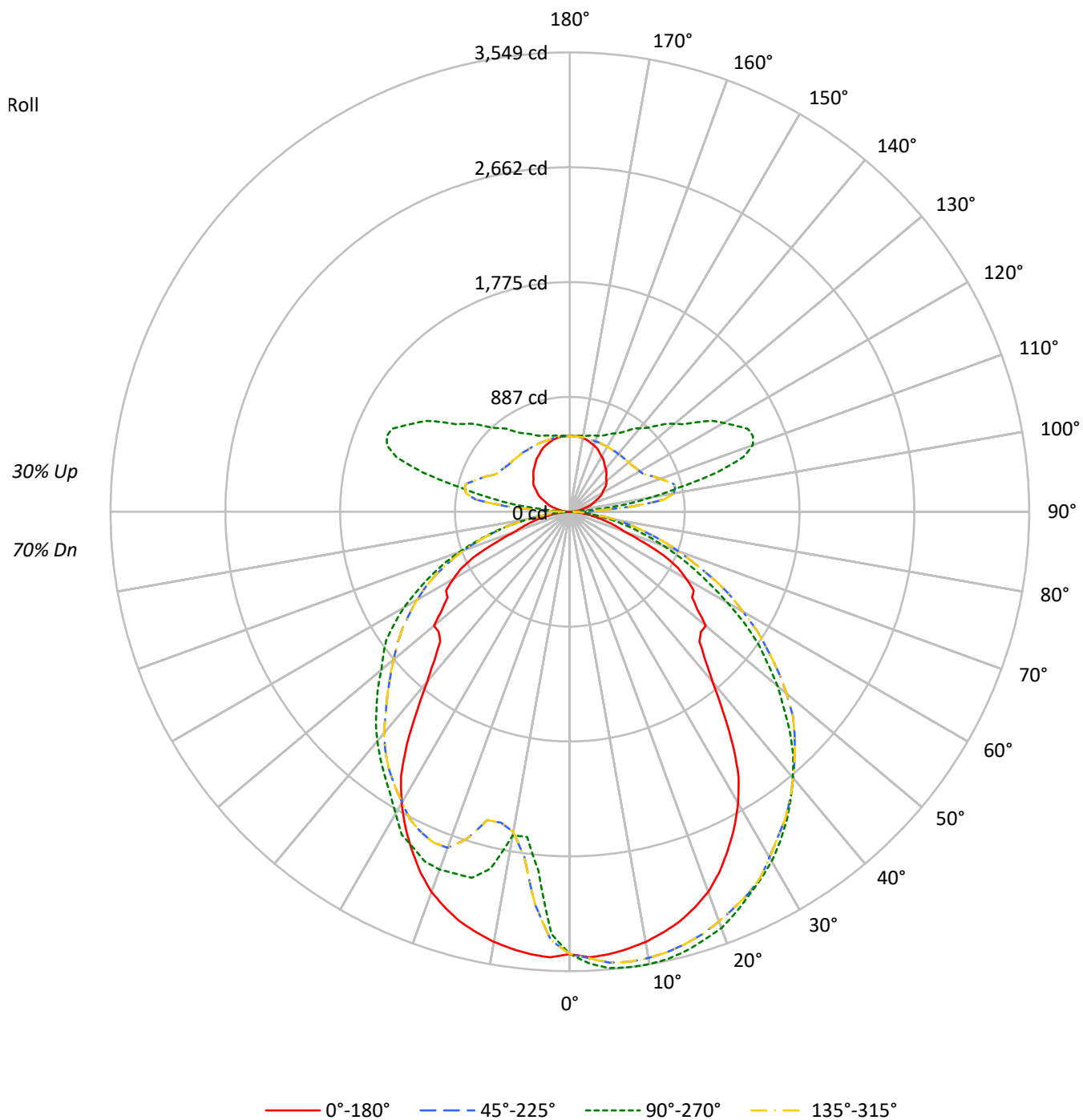
Lumens per Lamp: N/A
Luminaire Lumens: 12662.4 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

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°	15850	15850	15850	15850
5°	15968	16000	15968	12581
10°	15862	15760	15862	11268
15°	15689	15419	15689	12875
20°	15361	15014	15361	12902
25°	14690	14425	14690	12629
30°	13822	13934	13822	12028
35°	12322	13315	12322	11369
40°	10267	12586	10267	10870
45°	9174	11732	9174	10297
50°	9746	10714	9746	9722
55°	9169	9617	9169	9389
60°	9452	8168	9452	8599
65°	8569	6752	8569	7548
70°	5935	5380	5935	6326
75°	5203	3977	5203	4763
80°	4194	2630	4194	2864
85°	2408	1393	2408	1184

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 14060 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.4	2.4
10°-20°	875.6	6.9
20°-30°	1353.5	10.7
30°-40°	1615.7	12.8
40°-50°	1625.2	12.8
50°-60°	1414.1	11.2
60°-70°	1002.6	7.9
70°-80°	530.5	4.2
80°-90°	134.4	1.1
90°-100°	285.9	2.3
100°-110°	751.7	5.9
110°-120°	779.4	6.2
120°-130°	625.2	4.9
130°-140°	490.6	3.9
140°-150°	376.5	3.0
150°-160°	271.2	2.1
160°-170°	165.9	1.3
170°-180°	56.1	0.4
0°-30°	2537.4	20.0
0°-40°	4153.1	32.8
0°-60°	7192.4	56.8
0°-90°	8859.9	70.0
90°-120°	1817.1	14.4
90°-150°	3309.4	26.1
90°-180°	3802.0	30.0
0°-180°	12662.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3416	3416	3416	3416	3416	
5°	3432	3539	3432	2783	3432	326
15°	3277	3507	3277	2928	3277	922
25°	2886	3271	2886	2864	2886	1325
35°	2194	2918	2194	2492	2194	1358
45°	1416	2405	1416	2110	1416	1134
55°	1154	1774	1154	1732	1154	1060
65°	802	1070	802	1196	802	766
75°	304	507	304	608	304	319
85°	52	129	52	110	52	70
90°	4	15	4	15	4	5
95°	38	173	38	173	38	42
105°	135	1177	135	1177	135	144
115°	241	1516	241	1516	241	238
125°	335	1207	335	1207	335	297
135°	399	937	399	937	399	309
145°	463	760	463	760	463	290
155°	523	654	523	654	523	240
165°	564	609	564	609	564	159
175°	587	590	587	590	587	56
180°	587	587	587	587	587	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2
2.5°	3445.3	3445.3	3464.6	3471.1	3471.1	3461.5	3451.8	3461.5	3490.5	3500.3	3497.0
5°	3432.4	3458.2	3493.8	3500.3	3506.7	3503.5	3497.0	3503.5	3535.8	3542.3	3545.5
7.5°	3406.5	3455.0	3500.3	3509.9	3519.7	3509.9	3506.7	3513.2	3545.5	3551.9	3551.9
10°	3374.2	3442.1	3493.8	3500.3	3509.9	3500.3	3500.3	3513.2	3545.5	3551.9	3555.2
12.5°	3328.9	3422.6	3471.1	3477.6	3490.5	3487.3	3484.1	3497.0	3529.3	3535.8	3535.8
15°	3277.3	3387.1	3432.4	3438.9	3461.5	3455.0	3455.0	3467.9	3503.5	3513.2	3509.9
17.5°	3206.1	3341.8	3393.6	3403.2	3419.5	3416.2	3419.5	3432.4	3464.6	3471.1	3474.4
20°	3125.3	3280.4	3341.8	3351.6	3367.7	3367.7	3367.7	3383.9	3416.2	3429.1	3429.1
22.5°	3015.4	3215.9	3280.4	3286.9	3306.3	3306.3	3312.8	3335.4	3364.5	3367.7	3367.7
25°	2886.2	3144.7	3199.6	3219.0	3238.4	3248.1	3257.9	3270.8	3280.4	3277.3	3280.4
27.5°	2750.4	3054.2	3125.3	3138.2	3164.1	3173.8	3186.7	3190.0	3193.2	3202.9	3196.4
30°	2598.6	2928.2	3034.8	3047.8	3089.8	3096.2	3083.3	3089.8	3105.9	3112.4	3118.8
32.5°	2427.2	2740.8	2941.1	2970.2	3009.0	2989.6	2986.4	2996.0	3021.9	3021.9	3028.4
35°	2194.5	2595.3	2853.8	2879.7	2908.7	2886.2	2899.1	2902.3	2918.5	2928.2	2925.0
37.5°	1939.2	2469.2	2763.4	2782.8	2805.4	2776.3	2795.7	2805.4	2818.3	2811.8	2811.8
40°	1713.0	2272.0	2656.7	2669.6	2689.0	2666.4	2685.7	2692.2	2698.7	2692.2	2689.0
42.5°	1544.9	2055.5	2543.5	2559.7	2546.8	2562.9	2569.4	2582.3	2572.7	2559.7	2559.7
45°	1415.6	1997.4	2420.7	2440.1	2420.7	2446.6	2456.4	2456.4	2427.2	2420.7	2417.5
47.5°	1373.6	1881.0	2297.9	2297.9	2288.3	2320.6	2336.7	2314.1	2285.0	2275.3	2275.3
50°	1370.3	1751.8	2129.8	2116.9	2162.2	2201.0	2184.8	2162.2	2139.6	2104.1	2104.1
52.5°	1244.3	1593.3	1913.3	1961.9	2032.9	2055.5	2029.7	2007.0	1968.3	1952.1	1939.2
55°	1153.8	1428.6	1716.2	1813.2	1887.5	1916.6	1868.1	1845.4	1787.3	1777.6	1771.1
57.5°	1134.4	1189.4	1535.2	1658.0	1748.5	1745.3	1716.2	1674.2	1625.7	1616.0	1612.8
60°	1040.7	859.7	1341.3	1486.7	1580.4	1570.8	1544.9	1506.1	1460.9	1454.4	1448.0
62.5°	943.7	623.8	1121.5	1286.3	1418.8	1415.6	1393.0	1334.8	1302.5	1286.3	1273.4
65°	801.5	523.6	798.3	1069.8	1260.5	1266.9	1218.5	1176.5	1140.8	1121.5	1118.3
67.5°	610.8	426.6	539.8	892.1	1108.6	1102.1	1040.7	1021.3	976.1	966.4	947.0
70°	452.5	284.4	374.9	724.0	959.9	943.7	895.2	872.7	830.7	808.0	795.0
72.5°	374.9	229.5	274.8	562.4	808.0	788.6	746.6	720.7	685.2	665.8	652.8
75°	303.8	242.4	210.1	417.0	656.1	643.2	604.4	578.5	549.4	523.6	526.8
77.5°	223.0	226.2	168.1	307.0	520.4	501.0	478.4	446.0	433.1	407.2	407.2
80°	168.1	177.7	126.1	210.1	374.9	374.9	355.5	332.9	310.3	297.4	297.4
82.5°	113.1	113.1	93.7	132.6	255.4	245.6	232.7	226.2	213.3	206.9	206.9
85°	51.7	64.7	58.2	80.8	139.0	145.4	145.4	139.0	135.7	129.3	132.6
87.5°	16.1	29.1	35.5	45.3	71.1	74.3	77.5	77.5	77.5	80.8	80.8
90°	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.5	20.0	15.0	15.0
92.5°	15.8	42.5	69.3	76.0	106.9	147.9	168.5	147.6	106.0	74.8	71.8
95°	37.8	86.8	135.8	148.0	262.8	415.9	492.5	439.5	333.5	253.9	245.0
97.5°	65.3	108.5	151.7	162.5	354.0	609.3	737.0	703.5	636.4	586.2	569.0
100°	86.6	125.8	164.9	174.8	387.3	670.5	812.1	814.6	819.5	823.1	802.7
102.5°	104.8	141.3	177.8	187.0	402.4	689.8	833.4	876.1	961.5	1025.5	1008.0
105°	135.4	166.4	197.4	205.1	413.8	692.0	831.0	926.7	1118.2	1261.7	1252.3
107.5°	166.9	195.8	224.6	231.9	415.8	661.1	783.8	917.3	1184.3	1384.6	1386.9
110°	188.1	214.2	240.4	246.9	412.8	633.8	744.4	893.7	1192.1	1416.0	1425.8

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	209.0	233.9	258.7	264.9	412.8	610.1	708.6	861.3	1166.8	1395.9	1411.0
115°	240.6	263.5	286.4	292.1	416.7	582.7	665.7	812.9	1107.1	1327.8	1348.7
117.5°	271.6	292.4	313.2	318.5	424.4	565.6	636.1	769.0	1034.6	1233.8	1256.9
120°	289.7	309.3	329.0	333.9	430.7	559.8	624.4	745.7	988.3	1170.4	1192.8
122.5°	307.4	327.2	347.0	351.9	439.7	556.8	615.3	724.6	943.2	1107.0	1129.2
125°	334.6	352.6	370.6	375.1	451.9	554.3	605.5	698.3	883.9	1023.2	1043.6
127.5°	356.7	374.8	393.0	397.6	464.1	552.8	597.2	676.9	836.3	955.9	973.0
130°	368.4	388.0	407.7	412.6	473.0	553.7	594.0	665.0	806.9	913.3	929.2
132.5°	380.7	400.2	419.9	424.8	480.3	554.3	591.3	654.8	781.9	877.1	891.3
135°	398.8	416.7	434.4	438.9	488.1	553.7	586.6	639.8	746.1	825.9	838.2
137.5°	417.3	435.0	452.7	457.1	499.9	557.1	585.8	630.8	720.7	788.2	798.2
140°	432.6	448.9	465.2	469.3	507.2	557.7	583.0	621.9	699.5	757.8	767.2
142.5°	444.5	459.5	474.5	478.3	513.2	559.7	583.0	617.1	685.4	736.6	744.7
145°	462.6	475.7	488.9	492.1	521.1	559.8	579.1	607.0	662.9	704.7	710.8
147.5°	480.7	493.4	506.2	509.4	532.6	563.6	579.1	601.1	644.9	677.9	682.9
150°	492.5	504.0	515.6	518.5	538.7	565.6	579.1	597.6	634.8	662.6	666.7
152.5°	504.7	513.5	522.2	524.4	542.6	567.0	579.1	595.0	626.6	650.4	653.5
155°	522.8	529.3	535.8	537.4	551.3	569.8	579.1	591.7	616.8	635.7	637.8
157.5°	536.1	542.4	548.7	550.4	559.9	572.7	579.1	588.9	608.4	623.1	624.6
160°	545.2	550.2	555.0	556.3	563.9	574.1	579.1	587.5	604.2	616.8	617.7
162.5°	554.3	558.0	561.6	562.6	568.1	575.5	579.1	586.2	600.4	611.0	611.8
165°	564.1	567.5	570.7	571.6	574.1	577.4	579.1	584.2	594.3	601.9	602.8
167.5°	573.2	574.7	576.3	576.7	578.8	581.6	583.0	586.4	593.1	598.0	598.4
170°	579.1	580.6	582.3	582.6	582.7	582.9	583.0	586.4	593.1	598.0	598.0
172.5°	582.3	582.6	582.9	583.0	583.0	583.0	583.0	585.7	591.0	594.9	594.6
175°	586.6	586.6	586.6	586.6	585.4	583.8	583.0	584.7	588.0	590.5	590.5
177.5°	586.6	586.6	586.6	586.6	585.6	584.4	583.8	585.1	587.7	589.7	589.3
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2
2.5°	3503.5	3493.8	3503.5	3497.0	3500.3	3490.5	3461.5	3451.8	3461.5	3471.1	3471.1
5°	3545.5	3539.0	3545.5	3545.5	3542.3	3535.8	3503.5	3497.0	3503.5	3506.7	3500.3
7.5°	3558.4	3548.7	3558.4	3551.9	3551.9	3545.5	3513.2	3506.7	3509.9	3519.7	3509.9
10°	3558.4	3548.7	3558.4	3555.2	3551.9	3545.5	3513.2	3500.3	3500.3	3509.9	3500.3
12.5°	3542.3	3535.8	3542.3	3535.8	3535.8	3529.3	3497.0	3484.1	3487.3	3490.5	3477.6
15°	3516.4	3506.7	3516.4	3509.9	3513.2	3503.5	3467.9	3455.0	3455.0	3461.5	3438.9
17.5°	3477.6	3464.6	3477.6	3474.4	3471.1	3464.6	3432.4	3419.5	3416.2	3419.5	3403.2
20°	3432.4	3422.6	3432.4	3429.1	3429.1	3416.2	3383.9	3367.7	3367.7	3367.7	3351.6
22.5°	3361.2	3351.6	3361.2	3367.7	3367.7	3364.5	3335.4	3312.8	3306.3	3306.3	3286.9
25°	3280.4	3270.8	3280.4	3280.4	3277.3	3280.4	3270.8	3257.9	3248.1	3238.4	3219.0
27.5°	3202.9	3196.4	3202.9	3196.4	3202.9	3193.2	3190.0	3186.7	3173.8	3164.1	3138.2
30°	3125.3	3118.8	3125.3	3118.8	3112.4	3105.9	3089.8	3083.3	3096.2	3089.8	3047.8
32.5°	3028.4	3021.9	3028.4	3028.4	3021.9	3021.9	2996.0	2986.4	2989.6	3009.0	2970.2
35°	2928.2	2918.5	2928.2	2925.0	2928.2	2918.5	2902.3	2899.1	2886.2	2908.7	2879.7
37.5°	2811.8	2802.2	2811.8	2811.8	2811.8	2818.3	2805.4	2795.7	2776.3	2805.4	2782.8
40°	2692.2	2679.3	2692.2	2689.0	2692.2	2698.7	2692.2	2685.7	2666.4	2689.0	2669.6
42.5°	2556.5	2553.3	2556.5	2559.7	2559.7	2572.7	2582.3	2569.4	2562.9	2546.8	2559.7
45°	2411.1	2404.6	2411.1	2417.5	2420.7	2427.2	2456.4	2456.4	2446.6	2420.7	2440.1
47.5°	2255.9	2239.8	2255.9	2275.3	2275.3	2285.0	2314.1	2336.7	2320.6	2288.3	2297.9
50°	2091.1	2094.3	2091.1	2104.1	2104.1	2139.6	2162.2	2184.8	2201.0	2162.2	2116.9
52.5°	1929.5	1926.2	1929.5	1939.2	1952.1	1968.3	2007.0	2029.7	2055.5	2032.9	1961.9
55°	1767.9	1774.4	1767.9	1771.1	1777.6	1787.3	1845.4	1868.1	1916.6	1887.5	1813.2
57.5°	1606.3	1596.6	1606.3	1612.8	1616.0	1625.7	1674.2	1716.2	1745.3	1748.5	1658.0
60°	1418.8	1406.0	1418.8	1448.0	1454.4	1460.9	1506.1	1544.9	1570.8	1580.4	1486.7
62.5°	1254.0	1231.4	1254.0	1273.4	1286.3	1302.5	1334.8	1393.0	1415.6	1418.8	1286.3
65°	1079.4	1069.8	1079.4	1118.3	1121.5	1140.8	1176.5	1218.5	1266.9	1260.5	1069.8
67.5°	921.1	921.1	921.1	947.0	966.4	976.1	1021.3	1040.7	1102.1	1108.6	892.1
70°	775.7	772.4	775.7	795.0	808.0	830.7	872.7	895.2	943.7	959.9	724.0
72.5°	636.7	633.5	636.7	652.8	665.8	685.2	720.7	746.6	788.6	808.0	562.4
75°	513.9	507.4	513.9	526.8	523.6	549.4	578.5	604.4	643.2	656.1	417.0
77.5°	394.3	394.3	394.3	407.2	407.2	433.1	446.0	478.4	501.0	520.4	307.0
80°	294.1	290.9	294.1	297.4	297.4	310.3	332.9	355.5	374.9	374.9	210.1
82.5°	206.9	200.4	206.9	206.9	206.9	213.3	226.2	232.7	245.6	255.4	132.6
85°	129.3	129.3	129.3	132.6	129.3	135.7	139.0	145.4	145.4	139.0	80.8
87.5°	84.0	80.8	84.0	80.8	80.8	77.5	77.5	77.5	74.3	71.1	45.3
90°	15.0	15.0	15.0	15.0	15.0	20.0	26.5	29.9	25.7	17.3	11.0
92.5°	59.9	48.0	59.9	71.8	74.8	106.0	147.6	168.5	147.9	106.9	76.0
95°	208.9	172.9	208.9	245.0	253.9	333.5	439.5	492.5	415.9	262.8	148.0
97.5°	500.4	431.9	500.4	569.0	586.2	636.4	703.5	737.0	609.3	354.0	162.5
100°	721.0	639.3	721.0	802.7	823.1	819.5	814.6	812.1	670.5	387.3	174.8
102.5°	938.0	868.0	938.0	1008.0	1025.5	961.5	876.1	833.4	689.8	402.4	187.0
105°	1214.7	1177.0	1214.7	1252.3	1261.7	1118.2	926.7	831.0	692.0	413.8	205.1
107.5°	1395.9	1405.0	1395.9	1386.9	1384.6	1184.3	917.3	783.8	661.1	415.8	231.9
110°	1465.0	1504.2	1465.0	1425.8	1416.0	1192.1	893.7	744.4	633.8	412.8	246.9



TEST NUMBER: P934604

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1471.2	1531.3	1471.2	1411.0	1395.9	1166.8	861.3	708.6	610.1	412.8	264.9
115°	1432.1	1515.6	1432.1	1348.7	1327.8	1107.1	812.9	665.7	582.7	416.7	292.1
117.5°	1349.5	1442.0	1349.5	1256.9	1233.8	1034.6	769.0	636.1	565.6	424.4	318.5
120°	1282.8	1372.7	1282.8	1192.8	1170.4	988.3	745.7	624.4	559.8	430.7	333.9
122.5°	1217.9	1306.6	1217.9	1129.2	1107.0	943.2	724.6	615.3	556.8	439.7	351.9
125°	1125.3	1207.0	1125.3	1043.6	1023.2	883.9	698.3	605.5	554.3	451.9	375.1
127.5°	1042.0	1111.0	1042.0	973.0	955.9	836.3	676.9	597.2	552.8	464.1	397.6
130°	992.9	1056.6	992.9	929.2	913.3	806.9	665.0	594.0	553.7	473.0	412.6
132.5°	948.4	1005.4	948.4	891.3	877.1	781.9	654.8	591.3	554.3	480.3	424.8
135°	887.4	936.6	887.4	838.2	825.9	746.1	639.8	586.6	553.7	488.1	438.9
137.5°	838.5	878.7	838.5	798.2	788.2	720.7	630.8	585.8	557.1	499.9	457.1
140°	804.8	842.4	804.8	767.2	757.8	699.5	621.9	583.0	557.7	507.2	469.3
142.5°	777.0	809.4	777.0	744.7	736.6	685.4	617.1	583.0	559.7	513.2	478.3
145°	735.4	759.8	735.4	710.8	704.7	662.9	607.0	579.1	559.8	521.1	492.1
147.5°	703.3	723.6	703.3	682.9	677.9	644.9	601.1	579.1	563.6	532.6	509.4
150°	683.1	699.5	683.1	666.7	662.6	634.8	597.6	579.1	565.6	538.7	518.5
152.5°	665.9	678.3	665.9	653.5	650.4	626.6	595.0	579.1	567.0	542.6	524.4
155°	646.1	654.3	646.1	637.8	635.7	616.8	591.7	579.1	569.8	551.3	537.4
157.5°	630.4	636.1	630.4	624.6	623.1	608.4	588.9	579.1	572.7	559.9	550.4
160°	621.0	624.4	621.0	617.7	616.8	604.2	587.5	579.1	574.1	563.9	556.3
162.5°	614.9	618.1	614.9	611.8	611.0	600.4	586.2	579.1	575.5	568.1	562.6
165°	606.0	609.4	606.0	602.8	601.9	594.3	584.2	579.1	577.4	574.1	571.6
167.5°	599.7	601.2	599.7	598.4	598.0	593.1	586.4	583.0	581.6	578.8	576.7
170°	598.0	598.0	598.0	598.0	598.0	593.1	586.4	583.0	582.9	582.7	582.6
172.5°	593.3	592.1	593.3	594.6	594.9	591.0	585.7	583.0	583.0	583.0	583.0
175°	590.5	590.5	590.5	590.5	590.5	588.0	584.7	583.0	583.8	585.4	586.6
177.5°	588.0	586.6	588.0	589.3	589.7	587.7	585.1	583.8	584.4	585.6	586.6
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6

TEST NUMBER: P934604

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2
2.5°	3464.6	3445.3	3445.3	3413.0	3400.1	3390.3	3374.2	3325.7	3312.8	3299.8	3319.3
5°	3493.8	3458.2	3432.4	3374.2	3325.7	3306.3	3244.9	3128.6	3051.0	2992.8	2960.5
7.5°	3500.3	3455.0	3406.5	3316.0	3199.6	3148.0	2960.5	2747.2	2689.0	2637.3	2605.0
10°	3493.8	3442.1	3374.2	3238.4	2963.7	2873.2	2685.7	2546.8	2511.3	2501.5	2511.3
12.5°	3471.1	3422.6	3328.9	3102.7	2718.1	2656.7	2546.8	2466.0	2459.5	2475.7	2562.9
15°	3432.4	3387.1	3277.3	2921.7	2582.3	2537.1	2459.5	2430.5	2466.0	2579.2	2840.9
17.5°	3393.6	3341.8	3206.1	2744.0	2478.9	2446.6	2391.7	2449.9	2650.2	2802.2	2889.4
20°	3341.8	3280.4	3125.3	2614.7	2404.6	2375.5	2349.7	2611.4	2763.4	2818.3	2866.8
22.5°	3280.4	3215.9	3015.4	2524.2	2327.0	2304.4	2320.6	2702.0	2763.4	2802.2	2844.2
25°	3199.6	3144.7	2886.2	2453.1	2265.6	2239.8	2301.2	2692.2	2727.8	2737.5	2821.5
27.5°	3125.3	3054.2	2750.4	2388.5	2191.2	2181.6	2317.3	2650.2	2676.1	2685.7	2776.3
30°	3034.8	2928.2	2598.6	2320.6	2113.7	2110.5	2320.6	2598.6	2592.1	2617.9	2708.4
32.5°	2941.1	2740.8	2427.2	2236.5	2039.4	2036.2	2297.9	2520.9	2514.5	2550.0	2617.9
35°	2853.8	2595.3	2194.5	2139.6	1945.6	1948.9	2243.0	2430.5	2433.7	2466.0	2508.0
37.5°	2763.4	2469.2	1939.2	2032.9	1855.2	1855.2	2168.6	2346.4	2339.9	2349.7	2407.8
40°	2656.7	2272.0	1713.0	1894.0	1771.1	1761.4	2078.2	2255.9	2233.3	2230.1	2310.9
42.5°	2543.5	2055.5	1544.9	1709.7	1674.2	1661.2	1968.3	2146.1	2104.1	2113.7	2217.1
45°	2420.7	1997.4	1415.6	1444.7	1573.9	1564.3	1848.7	2020.0	1990.9	2016.8	2123.4
47.5°	2297.9	1881.0	1373.6	1199.1	1467.4	1464.1	1716.2	1897.2	1881.0	1906.8	2020.0
50°	2129.8	1751.8	1370.3	1027.8	1347.7	1360.7	1557.8	1777.6	1777.6	1800.2	1919.8
52.5°	1913.3	1593.3	1244.3	930.8	1208.7	1247.5	1418.8	1674.2	1680.6	1703.2	1809.9
55°	1716.2	1428.6	1153.8	856.4	1043.9	1128.0	1283.1	1567.5	1580.4	1603.1	1700.0
57.5°	1535.2	1189.4	1134.4	769.3	892.1	972.9	1163.5	1464.1	1470.5	1490.0	1583.7
60°	1341.3	859.7	1040.7	675.5	759.5	820.9	1053.7	1341.3	1363.9	1376.8	1457.6
62.5°	1121.5	623.8	943.7	610.8	694.9	707.8	963.1	1224.9	1254.0	1263.8	1312.2
65°	798.3	523.6	801.5	555.9	627.0	630.2	866.2	1105.3	1131.2	1147.3	1182.9
67.5°	539.8	426.6	610.8	504.1	575.3	578.5	772.4	966.4	1001.9	1014.9	1037.5
70°	374.9	284.4	452.5	449.2	517.1	523.6	672.2	840.3	872.7	882.3	895.2
72.5°	274.8	229.5	374.9	404.0	455.7	462.2	568.8	698.1	730.4	740.1	746.6
75°	210.1	242.4	303.8	352.3	387.8	391.1	465.4	568.8	591.4	597.9	601.2
77.5°	168.1	226.2	223.0	284.4	316.8	310.3	365.2	439.6	459.0	459.0	459.0
80°	126.1	177.7	168.1	203.6	232.7	226.2	261.8	313.5	319.9	326.4	323.2
82.5°	93.7	113.1	113.1	129.3	155.1	148.7	174.6	203.6	203.6	203.6	210.1
85°	58.2	64.7	51.7	67.9	87.3	84.0	96.9	109.9	113.1	113.1	106.7
87.5°	35.5	29.1	16.1	25.9	38.8	38.8	45.3	48.5	45.3	45.3	45.3
90°	10.2	7.1	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.5	20.0
92.5°	69.3	42.5	15.8	42.5	69.3	76.0	106.9	147.9	168.5	147.6	106.0
95°	135.8	86.8	37.8	86.8	135.8	148.0	262.8	415.9	492.5	439.5	333.5
97.5°	151.7	108.5	65.3	108.5	151.7	162.5	354.0	609.3	737.0	703.5	636.4
100°	164.9	125.8	86.6	125.8	164.9	174.8	387.3	670.5	812.1	814.6	819.5
102.5°	177.8	141.3	104.8	141.3	177.8	187.0	402.4	689.8	833.4	876.1	961.5
105°	197.4	166.4	135.4	166.4	197.4	205.1	413.8	692.0	831.0	926.7	1118.2
107.5°	224.6	195.8	166.9	195.8	224.6	231.9	415.8	661.1	783.8	917.3	1184.3
110°	240.4	214.2	188.1	214.2	240.4	246.9	412.8	633.8	744.4	893.7	1192.1

TEST NUMBER: P934604

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	258.7	233.9	209.0	233.9	258.7	264.9	412.8	610.1	708.6	861.3	1166.8
115°	286.4	263.5	240.6	263.5	286.4	292.1	416.7	582.7	665.7	812.9	1107.1
117.5°	313.2	292.4	271.6	292.4	313.2	318.5	424.4	565.6	636.1	769.0	1034.6
120°	329.0	309.3	289.7	309.3	329.0	333.9	430.7	559.8	624.4	745.7	988.3
122.5°	347.0	327.2	307.4	327.2	347.0	351.9	439.7	556.8	615.3	724.6	943.2
125°	370.6	352.6	334.6	352.6	370.6	375.1	451.9	554.3	605.5	698.3	883.9
127.5°	393.0	374.8	356.7	374.8	393.0	397.6	464.1	552.8	597.2	676.9	836.3
130°	407.7	388.0	368.4	388.0	407.7	412.6	473.0	553.7	594.0	665.0	806.9
132.5°	419.9	400.2	380.7	400.2	419.9	424.8	480.3	554.3	591.3	654.8	781.9
135°	434.4	416.7	398.8	416.7	434.4	438.9	488.1	553.7	586.6	639.8	746.1
137.5°	452.7	435.0	417.3	435.0	452.7	457.1	499.9	557.1	585.8	630.8	720.7
140°	465.2	448.9	432.6	448.9	465.2	469.3	507.2	557.7	583.0	621.9	699.5
142.5°	474.5	459.5	444.5	459.5	474.5	478.3	513.2	559.7	583.0	617.1	685.4
145°	488.9	475.7	462.6	475.7	488.9	492.1	521.1	559.8	579.1	607.0	662.9
147.5°	506.2	493.4	480.7	493.4	506.2	509.4	532.6	563.6	579.1	601.1	644.9
150°	515.6	504.0	492.5	504.0	515.6	518.5	538.7	565.6	579.1	597.6	634.8
152.5°	522.2	513.5	504.7	513.5	522.2	524.4	542.6	567.0	579.1	595.0	626.6
155°	535.8	529.3	522.8	529.3	535.8	537.4	551.3	569.8	579.1	591.7	616.8
157.5°	548.7	542.4	536.1	542.4	548.7	550.4	559.9	572.7	579.1	588.9	608.4
160°	555.0	550.2	545.2	550.2	555.0	556.3	563.9	574.1	579.1	587.5	604.2
162.5°	561.6	558.0	554.3	558.0	561.6	562.6	568.1	575.5	579.1	586.2	600.4
165°	570.7	567.5	564.1	567.5	570.7	571.6	574.1	577.4	579.1	584.2	594.3
167.5°	576.3	574.7	573.2	574.7	576.3	576.7	578.8	581.6	583.0	586.4	593.1
170°	582.3	580.6	579.1	580.6	582.3	582.6	582.7	582.9	583.0	586.4	593.1
172.5°	582.9	582.6	582.3	582.6	582.9	583.0	583.0	583.0	583.0	585.7	591.0
175°	586.6	586.6	586.6	586.6	586.6	586.6	585.4	583.8	583.0	584.7	588.0
177.5°	586.6	586.6	586.6	586.6	586.6	586.6	585.6	584.4	583.8	585.1	587.7
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6

TEST NUMBER: P934604

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2	3416.2
2.5°	3296.7	3286.9	3299.8	3264.3	3299.8	3286.9	3296.7	3319.3	3299.8	3312.8	3325.7
5°	2892.6	2876.5	2824.8	2782.8	2824.8	2876.5	2892.6	2960.5	2992.8	3051.0	3128.6
7.5°	2585.6	2572.7	2559.7	2533.9	2559.7	2572.7	2585.6	2605.0	2637.3	2689.0	2747.2
10°	2517.8	2520.9	2540.3	2537.1	2540.3	2520.9	2517.8	2511.3	2501.5	2511.3	2546.8
12.5°	2692.2	2721.4	2827.9	2821.5	2827.9	2721.4	2692.2	2562.9	2475.7	2459.5	2466.0
15°	2892.6	2902.3	2925.0	2928.2	2925.0	2902.3	2892.6	2840.9	2579.2	2466.0	2430.5
17.5°	2912.0	2915.2	2931.4	2931.4	2931.4	2915.2	2912.0	2889.4	2802.2	2650.2	2449.9
20°	2895.8	2902.3	2934.6	2941.1	2934.6	2902.3	2895.8	2866.8	2818.3	2763.4	2611.4
22.5°	2889.4	2902.3	2928.2	2925.0	2928.2	2902.3	2889.4	2844.2	2802.2	2763.4	2702.0
25°	2857.1	2857.1	2860.3	2863.6	2860.3	2857.1	2857.1	2821.5	2737.5	2727.8	2692.2
27.5°	2789.2	2795.7	2815.1	2811.8	2815.1	2795.7	2789.2	2776.3	2685.7	2676.1	2650.2
30°	2727.8	2721.4	2705.1	2692.2	2705.1	2721.4	2727.8	2708.4	2617.9	2592.1	2598.6
32.5°	2624.3	2608.2	2592.1	2582.3	2592.1	2608.2	2624.3	2617.9	2550.0	2514.5	2520.9
35°	2501.5	2504.8	2501.5	2491.9	2501.5	2504.8	2501.5	2508.0	2466.0	2433.7	2430.5
37.5°	2414.3	2420.7	2417.5	2404.6	2417.5	2420.7	2414.3	2407.8	2349.7	2339.9	2346.4
40°	2323.8	2327.0	2323.8	2314.1	2323.8	2327.0	2323.8	2310.9	2230.1	2233.3	2255.9
42.5°	2236.5	2233.3	2223.6	2217.1	2223.6	2233.3	2236.5	2217.1	2113.7	2104.1	2146.1
45°	2136.3	2139.6	2120.2	2110.5	2120.2	2139.6	2136.3	2123.4	2016.8	1990.9	2020.0
47.5°	2036.2	2036.2	2020.0	2010.3	2020.0	2036.2	2036.2	2020.0	1906.8	1881.0	1897.2
50°	1929.5	1926.2	1903.6	1900.4	1903.6	1926.2	1929.5	1919.8	1800.2	1777.6	1777.6
52.5°	1806.7	1806.7	1809.9	1816.4	1809.9	1806.7	1806.7	1809.9	1703.2	1680.6	1674.2
55°	1700.0	1703.2	1725.9	1732.4	1725.9	1703.2	1700.0	1700.0	1603.1	1580.4	1567.5
57.5°	1590.2	1590.2	1606.3	1606.3	1606.3	1590.2	1590.2	1583.7	1490.0	1470.5	1464.1
60°	1464.1	1470.5	1483.5	1480.2	1483.5	1470.5	1464.1	1457.6	1376.8	1363.9	1341.3
62.5°	1331.6	1338.1	1341.3	1334.8	1341.3	1338.1	1331.6	1312.2	1263.8	1254.0	1224.9
65°	1192.6	1199.1	1202.3	1195.9	1202.3	1199.1	1192.6	1182.9	1147.3	1131.2	1105.3
67.5°	1050.4	1047.2	1043.9	1056.9	1043.9	1047.2	1050.4	1037.5	1014.9	1001.9	966.4
70°	905.0	905.0	901.7	908.2	901.7	905.0	905.0	895.2	882.3	872.7	840.3
72.5°	749.9	746.6	759.5	749.9	759.5	746.6	749.9	746.6	740.1	730.4	698.1
75°	597.9	604.4	597.9	607.6	597.9	604.4	597.9	601.2	597.9	591.4	568.8
77.5°	455.7	462.2	455.7	455.7	455.7	462.2	455.7	459.0	459.0	459.0	439.6
80°	323.2	319.9	319.9	316.8	319.9	319.9	323.2	323.2	326.4	319.9	313.5
82.5°	206.9	203.6	203.6	210.1	203.6	203.6	206.9	210.1	203.6	203.6	203.6
85°	113.1	116.3	109.9	109.9	109.9	116.3	113.1	106.7	113.1	113.1	109.9
87.5°	42.0	38.8	38.8	38.8	38.8	38.8	42.0	45.3	45.3	45.3	48.5
90°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	20.0	26.5	29.9	25.7
92.5°	74.8	71.8	59.9	48.0	59.9	71.8	74.8	106.0	147.6	168.5	147.9
95°	253.9	245.0	208.9	172.9	208.9	245.0	253.9	333.5	439.5	492.5	415.9
97.5°	586.2	569.0	500.4	431.9	500.4	569.0	586.2	636.4	703.5	737.0	609.3
100°	823.1	802.7	721.0	639.3	721.0	802.7	823.1	819.5	814.6	812.1	670.5
102.5°	1025.5	1008.0	938.0	868.0	938.0	1008.0	1025.5	961.5	876.1	833.4	689.8
105°	1261.7	1252.3	1214.7	1177.0	1214.7	1252.3	1261.7	1118.2	926.7	831.0	692.0
107.5°	1384.6	1386.9	1395.9	1405.0	1395.9	1386.9	1384.6	1184.3	917.3	783.8	661.1
110°	1416.0	1425.8	1465.0	1504.2	1465.0	1425.8	1416.0	1192.1	893.7	744.4	633.8

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1395.9	1411.0	1471.2	1531.3	1471.2	1411.0	1395.9	1166.8	861.3	708.6	610.1
115°	1327.8	1348.7	1432.1	1515.6	1432.1	1348.7	1327.8	1107.1	812.9	665.7	582.7
117.5°	1233.8	1256.9	1349.5	1442.0	1349.5	1256.9	1233.8	1034.6	769.0	636.1	565.6
120°	1170.4	1192.8	1282.8	1372.7	1282.8	1192.8	1170.4	988.3	745.7	624.4	559.8
122.5°	1107.0	1129.2	1217.9	1306.6	1217.9	1129.2	1107.0	943.2	724.6	615.3	556.8
125°	1023.2	1043.6	1125.3	1207.0	1125.3	1043.6	1023.2	883.9	698.3	605.5	554.3
127.5°	955.9	973.0	1042.0	1111.0	1042.0	973.0	955.9	836.3	676.9	597.2	552.8
130°	913.3	929.2	992.9	1056.6	992.9	929.2	913.3	806.9	665.0	594.0	553.7
132.5°	877.1	891.3	948.4	1005.4	948.4	891.3	877.1	781.9	654.8	591.3	554.3
135°	825.9	838.2	887.4	936.6	887.4	838.2	825.9	746.1	639.8	586.6	553.7
137.5°	788.2	798.2	838.5	878.7	838.5	798.2	788.2	720.7	630.8	585.8	557.1
140°	757.8	767.2	804.8	842.4	804.8	767.2	757.8	699.5	621.9	583.0	557.7
142.5°	736.6	744.7	777.0	809.4	777.0	744.7	736.6	685.4	617.1	583.0	559.7
145°	704.7	710.8	735.4	759.8	735.4	710.8	704.7	662.9	607.0	579.1	559.8
147.5°	677.9	682.9	703.3	723.6	703.3	682.9	677.9	644.9	601.1	579.1	563.6
150°	662.6	666.7	683.1	699.5	683.1	666.7	662.6	634.8	597.6	579.1	565.6
152.5°	650.4	653.5	665.9	678.3	665.9	653.5	650.4	626.6	595.0	579.1	567.0
155°	635.7	637.8	646.1	654.3	646.1	637.8	635.7	616.8	591.7	579.1	569.8
157.5°	623.1	624.6	630.4	636.1	630.4	624.6	623.1	608.4	588.9	579.1	572.7
160°	616.8	617.7	621.0	624.4	621.0	617.7	616.8	604.2	587.5	579.1	574.1
162.5°	611.0	611.8	614.9	618.1	614.9	611.8	611.0	600.4	586.2	579.1	575.5
165°	601.9	602.8	606.0	609.4	606.0	602.8	601.9	594.3	584.2	579.1	577.4
167.5°	598.0	598.4	599.7	601.2	599.7	598.4	598.0	593.1	586.4	583.0	581.6
170°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	593.1	586.4	583.0	582.9
172.5°	594.9	594.6	593.3	592.1	593.3	594.6	594.9	591.0	585.7	583.0	583.0
175°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	588.0	584.7	583.0	583.8
177.5°	589.7	589.3	588.0	586.6	588.0	589.3	589.7	587.7	585.1	583.8	584.4
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3416.2	3416.2	3416.2	3416.2	3416.2
2.5°	3374.2	3390.3	3400.1	3413.0	3445.3
5°	3244.9	3306.3	3325.7	3374.2	3432.4
7.5°	2960.5	3148.0	3199.6	3316.0	3406.5
10°	2685.7	2873.2	2963.7	3238.4	3374.2
12.5°	2546.8	2656.7	2718.1	3102.7	3328.9
15°	2459.5	2537.1	2582.3	2921.7	3277.3
17.5°	2391.7	2446.6	2478.9	2744.0	3206.1
20°	2349.7	2375.5	2404.6	2614.7	3125.3
22.5°	2320.6	2304.4	2327.0	2524.2	3015.4
25°	2301.2	2239.8	2265.6	2453.1	2886.2
27.5°	2317.3	2181.6	2191.2	2388.5	2750.4
30°	2320.6	2110.5	2113.7	2320.6	2598.6
32.5°	2297.9	2036.2	2039.4	2236.5	2427.2
35°	2243.0	1948.9	1945.6	2139.6	2194.5
37.5°	2168.6	1855.2	1855.2	2032.9	1939.2
40°	2078.2	1761.4	1771.1	1894.0	1713.0
42.5°	1968.3	1661.2	1674.2	1709.7	1544.9
45°	1848.7	1564.3	1573.9	1444.7	1415.6
47.5°	1716.2	1464.1	1467.4	1199.1	1373.6
50°	1557.8	1360.7	1347.7	1027.8	1370.3
52.5°	1418.8	1247.5	1208.7	930.8	1244.3
55°	1283.1	1128.0	1043.9	856.4	1153.8
57.5°	1163.5	972.9	892.1	769.3	1134.4
60°	1053.7	820.9	759.5	675.5	1040.7
62.5°	963.1	707.8	694.9	610.8	943.7
65°	866.2	630.2	627.0	555.9	801.5
67.5°	772.4	578.5	575.3	504.1	610.8
70°	672.2	523.6	517.1	449.2	452.5
72.5°	568.8	462.2	455.7	404.0	374.9
75°	465.4	391.1	387.8	352.3	303.8
77.5°	365.2	310.3	316.8	284.4	223.0
80°	261.8	226.2	232.7	203.6	168.1
82.5°	174.6	148.7	155.1	129.3	113.1
85°	96.9	84.0	87.3	67.9	51.7
87.5°	45.3	38.8	38.8	25.9	16.1
90°	17.3	11.0	10.2	7.1	3.9
92.5°	106.9	76.0	69.3	42.5	15.8
95°	262.8	148.0	135.8	86.8	37.8
97.5°	354.0	162.5	151.7	108.5	65.3
100°	387.3	174.8	164.9	125.8	86.6
102.5°	402.4	187.0	177.8	141.3	104.8
105°	413.8	205.1	197.4	166.4	135.4
107.5°	415.8	231.9	224.6	195.8	166.9
110°	412.8	246.9	240.4	214.2	188.1

TEST NUMBER: P934604

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	412.8	264.9	258.7	233.9	209.0
115°	416.7	292.1	286.4	263.5	240.6
117.5°	424.4	318.5	313.2	292.4	271.6
120°	430.7	333.9	329.0	309.3	289.7
122.5°	439.7	351.9	347.0	327.2	307.4
125°	451.9	375.1	370.6	352.6	334.6
127.5°	464.1	397.6	393.0	374.8	356.7
130°	473.0	412.6	407.7	388.0	368.4
132.5°	480.3	424.8	419.9	400.2	380.7
135°	488.1	438.9	434.4	416.7	398.8
137.5°	499.9	457.1	452.7	435.0	417.3
140°	507.2	469.3	465.2	448.9	432.6
142.5°	513.2	478.3	474.5	459.5	444.5
145°	521.1	492.1	488.9	475.7	462.6
147.5°	532.6	509.4	506.2	493.4	480.7
150°	538.7	518.5	515.6	504.0	492.5
152.5°	542.6	524.4	522.2	513.5	504.7
155°	551.3	537.4	535.8	529.3	522.8
157.5°	559.9	550.4	548.7	542.4	536.1
160°	563.9	556.3	555.0	550.2	545.2
162.5°	568.1	562.6	561.6	558.0	554.3
165°	574.1	571.6	570.7	567.5	564.1
167.5°	578.8	576.7	576.3	574.7	573.2
170°	582.7	582.6	582.3	580.6	579.1
172.5°	583.0	583.0	582.9	582.6	582.3
175°	585.4	586.6	586.6	586.6	586.6
177.5°	585.6	586.6	586.6	586.6	586.6
180°	586.6	586.6	586.6	586.6	586.6

(END OF REPORT)