

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: P935302

Luminaire Tested: SQ4-FA-100U-100D-B40-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935302
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-100D-B40-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

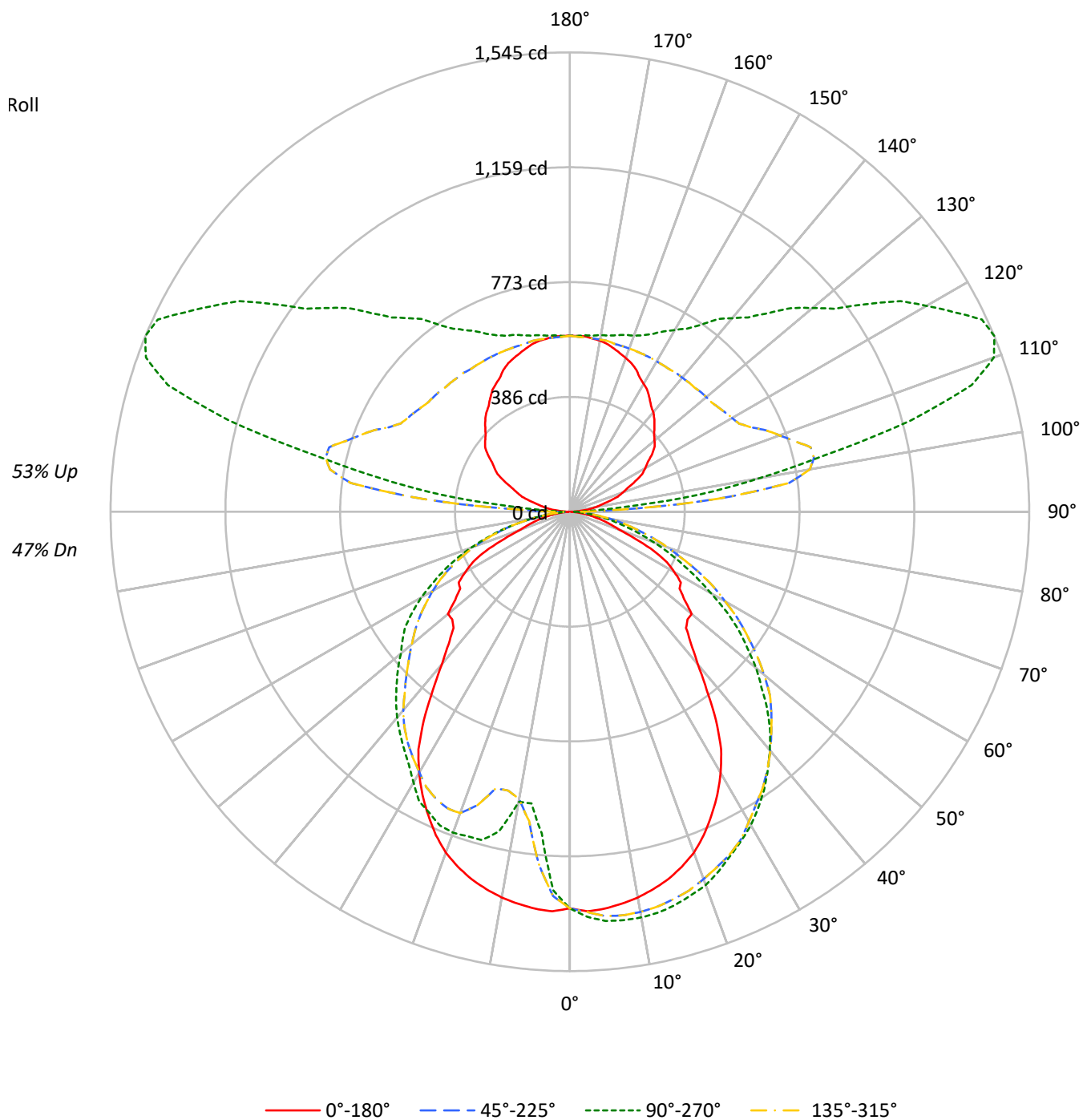
Lumens per Lamp: N/A
Luminaire Lumens: 7297.1 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 58
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12376	12376	12376	12376
5°	12455	12493	12455	9823
10°	12358	12306	12358	8798
15°	12209	12039	12209	10052
20°	11940	11723	11940	10074
25°	11404	11263	11404	9860
30°	10715	10880	10715	9392
35°	9538	10397	9538	8877
40°	7935	9827	7935	8487
45°	7076	9161	7076	8041
50°	7500	8366	7500	7591
55°	7037	7510	7037	7331
60°	7227	6376	7227	6715
65°	6523	5271	6523	5893
70°	4486	4202	4486	4940
75°	3889	3106	3889	3719
80°	3070	2052	3070	2236
85°	1673	1086	1673	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 10866 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.6
10°-20°	341.8	4.7
20°-30°	528.4	7.2
30°-40°	630.8	8.6
40°-50°	634.5	8.7
50°-60°	552.1	7.6
60°-70°	391.4	5.4
70°-80°	207.1	2.8
80°-90°	53.8	0.7
90°-100°	288.5	4.0
100°-110°	758.5	10.4
110°-120°	786.5	10.8
120°-130°	630.8	8.6
130°-140°	495.0	6.8
140°-150°	379.9	5.2
150°-160°	273.6	3.7
160°-170°	167.4	2.3
170°-180°	56.6	0.8
0°-30°	990.6	13.6
0°-40°	1621.4	22.2
0°-60°	2808.0	38.5
0°-90°	3460.3	47.4
90°-120°	1833.5	25.1
90°-150°	3339.2	45.8
90°-180°	3837.0	52.6
0°-180°	7297.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1334	1334	1334	1334	1334	
5°	1340	1382	1340	1086	1340	127
15°	1279	1369	1279	1143	1279	360
25°	1127	1277	1127	1118	1127	517
35°	857	1139	857	973	857	530
45°	553	939	553	824	553	443
55°	450	693	450	676	450	414
65°	313	418	313	467	313	299
75°	119	198	119	237	119	125
85°	20	50	20	43	20	27
90°	4	15	4	15	4	4
95°	38	174	38	174	38	42
105°	137	1188	137	1188	137	145
115°	243	1529	243	1529	243	240
125°	338	1218	338	1218	338	300
135°	402	945	402	945	402	311
145°	467	767	467	767	467	292
155°	528	660	528	660	528	242
165°	569	615	569	615	569	161
175°	592	596	592	596	592	56
180°	592	592	592	592	592	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1345.0	1345.0	1352.7	1355.1	1355.1	1351.3	1347.6	1351.3	1362.7	1366.5	1365.3
5°	1340.1	1350.1	1364.0	1366.5	1369.0	1367.8	1365.3	1367.8	1380.4	1382.9	1384.2
7.5°	1329.9	1348.8	1366.5	1370.3	1374.1	1370.3	1369.0	1371.6	1384.2	1386.7	1386.7
10°	1317.3	1343.8	1364.0	1366.5	1370.3	1366.5	1366.5	1371.6	1384.2	1386.7	1388.0
12.5°	1299.7	1336.2	1355.1	1357.7	1362.7	1361.4	1360.2	1365.3	1377.9	1380.4	1380.4
15°	1279.4	1322.4	1340.1	1342.5	1351.3	1348.8	1348.8	1353.9	1367.8	1371.6	1370.3
17.5°	1251.7	1304.7	1324.9	1328.7	1335.0	1333.7	1335.0	1340.1	1352.7	1355.1	1356.4
20°	1220.1	1280.8	1304.7	1308.4	1314.7	1314.7	1314.7	1321.1	1333.7	1338.7	1338.7
22.5°	1177.2	1255.4	1280.8	1283.2	1290.8	1290.8	1293.4	1302.1	1313.5	1314.7	1314.7
25°	1126.8	1227.7	1249.1	1256.8	1264.3	1268.0	1271.9	1276.9	1280.8	1279.4	1280.8
27.5°	1073.8	1192.4	1220.1	1225.2	1235.3	1239.1	1244.1	1245.4	1246.7	1250.4	1247.9
30°	1014.5	1143.1	1184.8	1189.8	1206.3	1208.7	1203.8	1206.3	1212.6	1215.1	1217.6
32.5°	947.6	1070.0	1148.2	1159.6	1174.7	1167.1	1165.9	1169.7	1179.8	1179.8	1182.3
35°	856.7	1013.3	1114.2	1124.2	1135.6	1126.8	1131.8	1133.1	1139.4	1143.1	1141.9
37.5°	757.0	964.0	1078.9	1086.4	1095.2	1083.8	1091.5	1095.2	1100.3	1097.8	1097.8
40°	668.8	887.0	1037.2	1042.2	1049.8	1041.0	1048.5	1051.1	1053.6	1051.1	1049.8
42.5°	603.2	802.5	993.0	999.3	994.3	1000.6	1003.1	1008.2	1004.4	999.3	999.3
45°	552.7	779.8	945.1	952.6	945.1	955.2	958.9	958.9	947.6	945.1	943.8
47.5°	536.2	734.4	897.1	897.1	893.3	905.9	912.3	903.4	892.1	888.3	888.3
50°	535.0	683.9	831.5	826.5	844.1	859.3	853.0	844.1	835.3	821.4	821.4
52.5°	485.8	622.1	747.0	765.9	793.7	802.5	792.4	783.6	768.4	762.1	757.0
55°	450.5	557.7	670.0	707.8	736.9	748.2	729.3	720.5	697.7	694.0	691.4
57.5°	442.9	464.3	599.4	647.3	682.6	681.4	670.0	653.6	634.7	630.9	629.6
60°	406.3	335.6	523.6	580.4	617.0	613.2	603.2	588.0	570.3	567.8	565.3
62.5°	368.4	243.5	437.9	502.2	553.9	552.7	543.9	521.1	508.5	502.2	497.2
65°	313.0	204.4	311.6	417.6	492.1	494.6	475.7	459.3	445.4	437.9	436.5
67.5°	238.5	166.6	210.7	348.3	432.8	430.2	406.3	398.7	381.0	377.2	369.7
70°	176.7	111.1	146.4	282.7	374.7	368.4	349.5	340.6	324.3	315.4	310.4
72.5°	146.4	89.6	107.2	219.6	315.4	307.9	291.5	281.3	267.5	260.0	254.9
75°	118.6	94.6	82.0	162.7	256.1	251.1	236.0	225.9	214.5	204.4	205.7
77.5°	87.1	88.3	65.6	119.9	203.1	195.6	186.7	174.1	169.0	159.0	159.0
80°	65.6	69.4	49.2	82.0	146.4	146.4	138.8	130.0	121.1	116.1	116.1
82.5°	44.1	44.1	36.6	51.8	99.7	95.9	90.8	88.3	83.3	80.8	80.8
85°	20.2	25.2	22.7	31.5	54.2	56.8	56.8	54.2	53.0	50.4	51.8
87.5°	6.3	11.4	13.8	17.7	27.8	29.0	30.3	30.3	30.3	31.5	31.5
90°	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.8	20.2	15.1	15.1
92.5°	15.9	42.9	69.9	76.7	107.8	149.3	170.0	149.0	107.0	75.4	72.5
95°	38.1	87.6	137.0	149.4	265.2	419.6	496.9	443.4	336.4	256.2	247.2
97.5°	65.9	109.5	153.2	164.1	357.3	614.8	743.6	709.8	642.1	591.4	574.1
100°	87.4	126.9	166.5	176.4	390.8	676.6	819.5	822.0	826.8	830.6	809.9
102.5°	105.6	142.6	179.4	188.7	406.2	696.0	841.0	884.0	970.2	1034.7	1017.1
105°	136.7	167.9	199.1	206.9	417.5	698.2	838.6	935.1	1128.2	1273.1	1263.7
107.5°	168.5	197.6	226.7	234.0	419.6	667.1	790.8	925.6	1195.0	1397.1	1399.4
110°	189.9	216.2	242.5	249.1	416.4	639.6	751.1	901.7	1202.9	1428.8	1438.7

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	211.0	236.0	261.0	267.3	416.6	615.5	715.0	869.1	1177.3	1408.5	1423.7
115°	242.7	265.8	288.9	294.7	420.4	588.0	671.7	820.2	1117.2	1339.9	1360.9
117.5°	274.1	295.1	316.1	321.4	428.2	570.7	642.0	775.9	1043.9	1244.9	1268.2
120°	292.3	312.1	331.9	336.8	434.5	564.9	630.0	752.4	997.3	1181.0	1203.7
122.5°	310.3	330.2	350.2	355.2	443.7	561.8	620.8	731.1	951.6	1117.0	1139.3
125°	337.7	355.8	374.0	378.6	456.0	559.2	610.9	704.6	891.9	1032.4	1053.0
127.5°	359.8	378.2	396.6	401.2	468.3	557.8	602.6	683.0	843.8	964.5	981.8
130°	371.8	391.6	411.3	416.3	477.3	558.8	599.5	671.1	814.2	921.6	937.6
132.5°	384.1	403.9	423.6	428.6	484.6	559.2	596.6	660.7	788.8	885.0	899.4
135°	402.4	420.4	438.4	442.9	492.6	558.8	591.9	645.6	752.8	833.3	845.7
137.5°	421.1	438.9	456.7	461.2	504.4	562.2	591.0	636.4	727.1	795.2	805.4
140°	436.5	453.0	469.4	473.5	511.8	562.8	588.3	627.4	705.8	764.7	774.1
142.5°	448.5	463.7	478.8	482.7	517.9	564.8	588.3	622.7	691.5	743.2	751.4
145°	466.7	480.0	493.2	496.5	525.8	564.9	584.4	612.5	668.8	711.0	717.2
147.5°	485.0	497.9	510.7	514.0	537.5	568.7	584.4	606.5	650.8	684.1	689.2
150°	496.9	508.5	520.2	523.1	543.6	570.8	584.4	603.1	640.4	668.5	672.6
152.5°	509.2	518.0	526.9	529.1	547.5	572.0	584.4	600.3	632.2	656.2	659.3
155°	527.5	534.0	540.6	542.2	556.3	575.0	584.4	597.1	622.5	641.5	643.6
157.5°	541.0	547.4	553.7	555.3	565.0	577.9	584.4	594.2	614.0	628.8	630.2
160°	550.2	555.1	560.0	561.3	569.0	579.2	584.4	592.9	609.8	622.5	623.3
162.5°	559.2	563.0	566.7	567.7	573.2	580.6	584.4	591.5	605.8	616.5	617.2
165°	569.2	572.5	575.9	576.7	579.3	582.6	584.4	589.5	599.7	607.4	608.2
167.5°	578.3	580.0	581.6	582.0	584.1	586.8	588.3	591.6	598.3	603.4	603.8
170°	584.4	585.9	587.5	587.9	588.0	588.2	588.3	591.6	598.3	603.4	603.4
172.5°	587.5	587.9	588.2	588.3	588.3	588.3	588.3	591.0	596.2	600.2	599.9
175°	591.9	591.9	591.9	591.9	590.7	589.0	588.3	590.0	593.3	595.8	595.8
177.5°	591.9	591.9	591.9	591.9	591.0	589.7	589.0	590.4	593.1	595.1	594.7
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1367.8	1364.0	1367.8	1365.3	1366.5	1362.7	1351.3	1347.6	1351.3	1355.1	1355.1
5°	1384.2	1381.7	1384.2	1384.2	1382.9	1380.4	1367.8	1365.3	1367.8	1369.0	1366.5
7.5°	1389.2	1385.4	1389.2	1386.7	1386.7	1384.2	1371.6	1369.0	1370.3	1374.1	1370.3
10°	1389.2	1385.4	1389.2	1388.0	1386.7	1384.2	1371.6	1366.5	1366.5	1370.3	1366.5
12.5°	1382.9	1380.4	1382.9	1380.4	1380.4	1377.9	1365.3	1360.2	1361.4	1362.7	1357.7
15°	1372.8	1369.0	1372.8	1370.3	1371.6	1367.8	1353.9	1348.8	1348.8	1351.3	1342.5
17.5°	1357.7	1352.7	1357.7	1356.4	1355.1	1352.7	1340.1	1335.0	1333.7	1335.0	1328.7
20°	1340.1	1336.2	1340.1	1338.7	1338.7	1333.7	1321.1	1314.7	1314.7	1314.7	1308.4
22.5°	1312.3	1308.4	1312.3	1314.7	1314.7	1313.5	1302.1	1293.4	1290.8	1290.8	1283.2
25°	1280.8	1276.9	1280.8	1280.8	1279.4	1280.8	1276.9	1271.9	1268.0	1264.3	1256.8
27.5°	1250.4	1247.9	1250.4	1247.9	1250.4	1246.7	1245.4	1244.1	1239.1	1235.3	1225.2
30°	1220.1	1217.6	1220.1	1217.6	1215.1	1212.6	1206.3	1203.8	1208.7	1206.3	1189.8
32.5°	1182.3	1179.8	1182.3	1182.3	1179.8	1179.8	1169.7	1165.9	1167.1	1174.7	1159.6
35°	1143.1	1139.4	1143.1	1141.9	1143.1	1139.4	1133.1	1131.8	1126.8	1135.6	1124.2
37.5°	1097.8	1094.0	1097.8	1097.8	1097.8	1100.3	1095.2	1091.5	1083.8	1095.2	1086.4
40°	1051.1	1046.0	1051.1	1049.8	1051.1	1053.6	1051.1	1048.5	1041.0	1049.8	1042.2
42.5°	998.1	996.8	998.1	999.3	999.3	1004.4	1008.2	1003.1	1000.6	994.3	999.3
45°	941.2	938.8	941.2	943.8	945.1	947.6	958.9	958.9	955.2	945.1	952.6
47.5°	880.7	874.4	880.7	888.3	888.3	892.1	903.4	912.3	905.9	893.3	897.1
50°	816.3	817.7	816.3	821.4	821.4	835.3	844.1	853.0	859.3	844.1	826.5
52.5°	753.3	752.1	753.3	757.0	762.1	768.4	783.6	792.4	802.5	793.7	765.9
55°	690.2	692.8	690.2	691.4	694.0	697.7	720.5	729.3	748.2	736.9	707.8
57.5°	627.1	623.3	627.1	629.6	630.9	634.7	653.6	670.0	681.4	682.6	647.3
60°	553.9	548.8	553.9	565.3	567.8	570.3	588.0	603.2	613.2	617.0	580.4
62.5°	489.5	480.7	489.5	497.2	502.2	508.5	521.1	543.9	552.7	553.9	502.2
65°	421.4	417.6	421.4	436.5	437.9	445.4	459.3	475.7	494.6	492.1	417.6
67.5°	359.7	359.7	359.7	369.7	377.2	381.0	398.7	406.3	430.2	432.8	348.3
70°	302.8	301.6	302.8	310.4	315.4	324.3	340.6	349.5	368.4	374.7	282.7
72.5°	248.6	247.3	248.6	254.9	260.0	267.5	281.3	291.5	307.9	315.4	219.6
75°	200.6	198.1	200.6	205.7	204.4	214.5	225.9	236.0	251.1	256.1	162.7
77.5°	153.9	153.9	153.9	159.0	159.0	169.0	174.1	186.7	195.6	203.1	119.9
80°	114.8	113.5	114.8	116.1	116.1	121.1	130.0	138.8	146.4	146.4	82.0
82.5°	80.8	78.2	80.8	80.8	80.8	83.3	88.3	90.8	95.9	99.7	51.8
85°	50.4	50.4	50.4	51.8	50.4	53.0	54.2	56.8	56.8	54.2	31.5
87.5°	32.9	31.5	32.9	31.5	31.5	30.3	30.3	30.3	29.0	27.8	17.7
90°	15.1	15.1	15.1	15.1	15.1	20.2	26.8	30.2	26.0	17.5	11.1
92.5°	60.5	48.4	60.5	72.5	75.4	107.0	149.0	170.0	149.3	107.8	76.7
95°	210.8	174.4	210.8	247.2	256.2	336.4	443.4	496.9	419.6	265.2	149.4
97.5°	504.9	435.8	504.9	574.1	591.4	642.1	709.8	743.6	614.8	357.3	164.1
100°	727.5	645.1	727.5	809.9	830.6	826.8	822.0	819.5	676.6	390.8	176.4
102.5°	946.5	875.9	946.5	1017.1	1034.7	970.2	884.0	841.0	696.0	406.2	188.7
105°	1225.6	1187.7	1225.6	1263.7	1273.1	1128.2	935.1	838.6	698.2	417.5	206.9
107.5°	1408.5	1417.7	1408.5	1399.4	1397.1	1195.0	925.6	790.8	667.1	419.6	234.0
110°	1478.2	1517.8	1478.2	1438.7	1428.8	1202.9	901.7	751.1	639.6	416.4	249.1

TEST NUMBER: P935302

CATALOG NUMBER: SQ4-FA-100U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1484.5	1545.2	1484.5	1423.7	1408.5	1177.3	869.1	715.0	615.5	416.6	267.3
115°	1445.1	1529.3	1445.1	1360.9	1339.9	1117.2	820.2	671.7	588.0	420.4	294.7
117.5°	1361.6	1455.0	1361.6	1268.2	1244.9	1043.9	775.9	642.0	570.7	428.2	321.4
120°	1294.4	1385.1	1294.4	1203.7	1181.0	997.3	752.4	630.0	564.9	434.5	336.8
122.5°	1228.9	1318.4	1228.9	1139.3	1117.0	951.6	731.1	620.8	561.8	443.7	355.2
125°	1135.4	1217.9	1135.4	1053.0	1032.4	891.9	704.6	610.9	559.2	456.0	378.6
127.5°	1051.5	1121.0	1051.5	981.8	964.5	843.8	683.0	602.6	557.8	468.3	401.2
130°	1001.9	1066.2	1001.9	937.6	921.6	814.2	671.1	599.5	558.8	477.3	416.3
132.5°	956.9	1014.5	956.9	899.4	885.0	788.8	660.7	596.6	559.2	484.6	428.6
135°	895.3	945.0	895.3	845.7	833.3	752.8	645.6	591.9	558.8	492.6	442.9
137.5°	846.0	886.6	846.0	805.4	795.2	727.1	636.4	591.0	562.2	504.4	461.2
140°	812.1	850.0	812.1	774.1	764.7	705.8	627.4	588.3	562.8	511.8	473.5
142.5°	784.1	816.7	784.1	751.4	743.2	691.5	622.7	588.3	564.8	517.9	482.7
145°	741.9	766.7	741.9	717.2	711.0	668.8	612.5	584.4	564.9	525.8	496.5
147.5°	709.7	730.1	709.7	689.2	684.1	650.8	606.5	584.4	568.7	537.5	514.0
150°	689.2	705.8	689.2	672.6	668.5	640.4	603.1	584.4	570.8	543.6	523.1
152.5°	671.8	684.4	671.8	659.3	656.2	632.2	600.3	584.4	572.0	547.5	529.1
155°	651.9	660.2	651.9	643.6	641.5	622.5	597.1	584.4	575.0	556.3	542.2
157.5°	636.1	642.0	636.1	630.2	628.8	614.0	594.2	584.4	577.9	565.0	555.3
160°	626.7	630.0	626.7	623.3	622.5	609.8	592.9	584.4	579.2	569.0	561.3
162.5°	620.5	623.6	620.5	617.2	616.5	605.8	591.5	584.4	580.6	573.2	567.7
165°	611.6	614.9	611.6	608.2	607.4	599.7	589.5	584.4	582.6	579.3	576.7
167.5°	605.1	606.5	605.1	603.8	603.4	598.3	591.6	588.3	586.8	584.1	582.0
170°	603.4	603.4	603.4	603.4	603.4	598.3	591.6	588.3	588.2	588.0	587.9
172.5°	598.7	597.4	598.7	599.9	600.2	596.2	591.0	588.3	588.3	588.3	588.3
175°	595.8	595.8	595.8	595.8	595.8	593.3	590.0	588.3	589.0	590.7	591.9
177.5°	593.3	591.9	593.3	594.7	595.1	593.1	590.4	589.0	589.7	591.0	591.9
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9

TEST NUMBER: P935302

CATALOG NUMBER: SQ4-FA-100U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1352.7	1345.0	1345.0	1332.4	1327.4	1323.6	1317.3	1298.4	1293.4	1288.3	1295.8
5°	1364.0	1350.1	1340.1	1317.3	1298.4	1290.8	1266.8	1221.4	1191.1	1168.4	1155.8
7.5°	1366.5	1348.8	1329.9	1294.6	1249.1	1229.0	1155.8	1072.6	1049.8	1029.6	1017.0
10°	1364.0	1343.8	1317.3	1264.3	1157.1	1121.7	1048.5	994.3	980.4	976.6	980.4
12.5°	1355.1	1336.2	1299.7	1211.3	1061.2	1037.2	994.3	962.7	960.3	966.6	1000.6
15°	1340.1	1322.4	1279.4	1140.7	1008.2	990.5	960.3	948.9	962.7	1006.9	1109.1
17.5°	1324.9	1304.7	1251.7	1071.2	967.8	955.2	933.7	956.4	1034.6	1094.0	1128.0
20°	1304.7	1280.8	1220.1	1020.8	938.8	927.4	917.3	1019.6	1078.9	1100.3	1119.2
22.5°	1280.8	1255.4	1177.2	985.5	908.5	899.6	905.9	1054.9	1078.9	1094.0	1110.4
25°	1249.1	1227.7	1126.8	957.7	884.5	874.4	898.4	1051.1	1064.9	1068.7	1101.5
27.5°	1220.1	1192.4	1073.8	932.5	855.5	851.7	904.7	1034.6	1044.8	1048.5	1083.8
30°	1184.8	1143.1	1014.5	905.9	825.2	824.0	905.9	1014.5	1011.9	1022.0	1057.4
32.5°	1148.2	1070.0	947.6	873.2	796.2	794.9	897.1	984.2	981.6	995.6	1022.0
35°	1114.2	1013.3	856.7	835.3	759.6	760.8	875.6	948.9	950.1	962.7	979.2
37.5°	1078.9	964.0	757.0	793.7	724.3	724.3	846.6	916.0	913.6	917.3	940.0
40°	1037.2	887.0	668.8	739.4	691.4	687.7	811.4	880.7	871.9	870.7	902.2
42.5°	993.0	802.5	603.2	667.4	653.6	648.5	768.4	837.8	821.4	825.2	865.6
45°	945.1	779.8	552.7	564.0	614.4	610.7	721.7	788.6	777.3	787.4	829.0
47.5°	897.1	734.4	536.2	468.1	572.8	571.6	670.0	740.7	734.4	744.4	788.6
50°	831.5	683.9	535.0	401.3	526.2	531.2	608.1	694.0	694.0	702.8	749.5
52.5°	747.0	622.1	485.8	363.4	471.9	487.0	553.9	653.6	656.1	665.0	706.6
55°	670.0	557.7	450.5	334.3	407.6	440.4	500.9	612.0	617.0	625.8	663.7
57.5°	599.4	464.3	442.9	300.3	348.3	379.8	454.2	571.6	574.1	581.7	618.3
60°	523.6	335.6	406.3	263.7	296.5	320.5	411.3	523.6	532.5	537.5	569.1
62.5°	437.9	243.5	368.4	238.5	271.3	276.4	376.0	478.2	489.5	493.4	512.3
65°	311.6	204.4	313.0	217.1	244.8	246.0	338.2	431.6	441.6	447.9	461.8
67.5°	210.7	166.6	238.5	196.8	224.6	225.9	301.6	377.2	391.2	396.2	405.0
70°	146.4	111.1	176.7	175.4	201.9	204.4	262.4	328.0	340.6	344.5	349.5
72.5°	107.2	89.6	146.4	157.8	177.9	180.4	222.0	272.6	285.2	289.0	291.5
75°	82.0	94.6	118.6	137.5	151.4	152.7	181.7	222.0	230.9	233.4	234.6
77.5°	65.6	88.3	87.1	111.1	123.7	121.1	142.6	171.6	179.2	179.2	179.2
80°	49.2	69.4	65.6	79.5	90.8	88.3	102.2	122.4	124.9	127.4	126.2
82.5°	36.6	44.1	44.1	50.4	60.5	58.1	68.1	79.5	79.5	79.5	82.0
85°	22.7	25.2	20.2	26.5	34.1	32.9	37.8	42.9	44.1	44.1	41.6
87.5°	13.8	11.4	6.3	10.1	15.2	15.2	17.7	18.9	17.7	17.7	17.7
90°	10.3	7.2	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.8	20.2
92.5°	69.9	42.9	15.9	42.9	69.9	76.7	107.8	149.3	170.0	149.0	107.0
95°	137.0	87.6	38.1	87.6	137.0	149.4	265.2	419.6	496.9	443.4	336.4
97.5°	153.2	109.5	65.9	109.5	153.2	164.1	357.3	614.8	743.6	709.8	642.1
100°	166.5	126.9	87.4	126.9	166.5	176.4	390.8	676.6	819.5	822.0	826.8
102.5°	179.4	142.6	105.6	142.6	179.4	188.7	406.2	696.0	841.0	884.0	970.2
105°	199.1	167.9	136.7	167.9	199.1	206.9	417.5	698.2	838.6	935.1	1128.2
107.5°	226.7	197.6	168.5	197.6	226.7	234.0	419.6	667.1	790.8	925.6	1195.0
110°	242.5	216.2	189.9	216.2	242.5	249.1	416.4	639.6	751.1	901.7	1202.9

TEST NUMBER: P935302

CATALOG NUMBER: SQ4-FA-100U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	261.0	236.0	211.0	236.0	261.0	267.3	416.6	615.5	715.0	869.1	1177.3
115°	288.9	265.8	242.7	265.8	288.9	294.7	420.4	588.0	671.7	820.2	1117.2
117.5°	316.1	295.1	274.1	295.1	316.1	321.4	428.2	570.7	642.0	775.9	1043.9
120°	331.9	312.1	292.3	312.1	331.9	336.8	434.5	564.9	630.0	752.4	997.3
122.5°	350.2	330.2	310.3	330.2	350.2	355.2	443.7	561.8	620.8	731.1	951.6
125°	374.0	355.8	337.7	355.8	374.0	378.6	456.0	559.2	610.9	704.6	891.9
127.5°	396.6	378.2	359.8	378.2	396.6	401.2	468.3	557.8	602.6	683.0	843.8
130°	411.3	391.6	371.8	391.6	411.3	416.3	477.3	558.8	599.5	671.1	814.2
132.5°	423.6	403.9	384.1	403.9	423.6	428.6	484.6	559.2	596.6	660.7	788.8
135°	438.4	420.4	402.4	420.4	438.4	442.9	492.6	558.8	591.9	645.6	752.8
137.5°	456.7	438.9	421.1	438.9	456.7	461.2	504.4	562.2	591.0	636.4	727.1
140°	469.4	453.0	436.5	453.0	469.4	473.5	511.8	562.8	588.3	627.4	705.8
142.5°	478.8	463.7	448.5	463.7	478.8	482.7	517.9	564.8	588.3	622.7	691.5
145°	493.2	480.0	466.7	480.0	493.2	496.5	525.8	564.9	584.4	612.5	668.8
147.5°	510.7	497.9	485.0	497.9	510.7	514.0	537.5	568.7	584.4	606.5	650.8
150°	520.2	508.5	496.9	508.5	520.2	523.1	543.6	570.8	584.4	603.1	640.4
152.5°	526.9	518.0	509.2	518.0	526.9	529.1	547.5	572.0	584.4	600.3	632.2
155°	540.6	534.0	527.5	534.0	540.6	542.2	556.3	575.0	584.4	597.1	622.5
157.5°	553.7	547.4	541.0	547.4	553.7	555.3	565.0	577.9	584.4	594.2	614.0
160°	560.0	555.1	550.2	555.1	560.0	561.3	569.0	579.2	584.4	592.9	609.8
162.5°	566.7	563.0	559.2	563.0	566.7	567.7	573.2	580.6	584.4	591.5	605.8
165°	575.9	572.5	569.2	572.5	575.9	576.7	579.3	582.6	584.4	589.5	599.7
167.5°	581.6	580.0	578.3	580.0	581.6	582.0	584.1	586.8	588.3	591.6	598.3
170°	587.5	585.9	584.4	585.9	587.5	587.9	588.0	588.2	588.3	591.6	598.3
172.5°	588.2	587.9	587.5	587.9	588.2	588.3	588.3	588.3	588.3	591.0	596.2
175°	591.9	591.9	591.9	591.9	591.9	591.9	590.7	589.0	588.3	590.0	593.3
177.5°	591.9	591.9	591.9	591.9	591.9	591.9	591.0	589.7	589.0	590.4	593.1
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9

TEST NUMBER: P935302

CATALOG NUMBER: SQ4-FA-100U-100D-B40-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1287.1	1283.2	1288.3	1274.4	1288.3	1283.2	1287.1	1295.8	1288.3	1293.4	1298.4
5°	1129.3	1123.0	1102.8	1086.4	1102.8	1123.0	1129.3	1155.8	1168.4	1191.1	1221.4
7.5°	1009.4	1004.4	999.3	989.2	999.3	1004.4	1009.4	1017.0	1029.6	1049.8	1072.6
10°	982.9	984.2	991.8	990.5	991.8	984.2	982.9	980.4	976.6	980.4	994.3
12.5°	1051.1	1062.4	1104.1	1101.5	1104.1	1062.4	1051.1	1000.6	966.6	960.3	962.7
15°	1129.3	1133.1	1141.9	1143.1	1141.9	1133.1	1129.3	1109.1	1006.9	962.7	948.9
17.5°	1136.8	1138.2	1144.5	1144.5	1144.5	1138.2	1136.8	1128.0	1094.0	1034.6	956.4
20°	1130.5	1133.1	1145.7	1148.2	1145.7	1133.1	1130.5	1119.2	1100.3	1078.9	1019.6
22.5°	1128.0	1133.1	1143.1	1141.9	1143.1	1133.1	1128.0	1110.4	1094.0	1078.9	1054.9
25°	1115.4	1115.4	1116.7	1117.9	1116.7	1115.4	1115.4	1101.5	1068.7	1064.9	1051.1
27.5°	1088.9	1091.5	1099.0	1097.8	1099.0	1091.5	1088.9	1083.8	1048.5	1044.8	1034.6
30°	1064.9	1062.4	1056.1	1051.1	1056.1	1062.4	1064.9	1057.4	1022.0	1011.9	1014.5
32.5°	1024.5	1018.2	1011.9	1008.2	1011.9	1018.2	1024.5	1022.0	995.6	981.6	984.2
35°	976.6	977.9	976.6	972.9	976.6	977.9	976.6	979.2	962.7	950.1	948.9
37.5°	942.6	945.1	943.8	938.8	943.8	945.1	942.6	940.0	917.3	913.6	916.0
40°	907.2	908.5	907.2	903.4	907.2	908.5	907.2	902.2	870.7	871.9	880.7
42.5°	873.2	871.9	868.1	865.6	868.1	871.9	873.2	865.6	825.2	821.4	837.8
45°	834.0	835.3	827.7	824.0	827.7	835.3	834.0	829.0	787.4	777.3	788.6
47.5°	794.9	794.9	788.6	784.8	788.6	794.9	794.9	788.6	744.4	734.4	740.7
50°	753.3	752.1	743.2	741.9	743.2	752.1	753.3	749.5	702.8	694.0	694.0
52.5°	705.4	705.4	706.6	709.1	706.6	705.4	705.4	706.6	665.0	656.1	653.6
55°	663.7	665.0	673.8	676.3	673.8	665.0	663.7	663.7	625.8	617.0	612.0
57.5°	620.8	620.8	627.1	627.1	627.1	620.8	620.8	618.3	581.7	574.1	571.6
60°	571.6	574.1	579.1	577.9	579.1	574.1	571.6	569.1	537.5	532.5	523.6
62.5°	519.8	522.4	523.6	521.1	523.6	522.4	519.8	512.3	493.4	489.5	478.2
65°	465.6	468.1	469.4	466.9	469.4	468.1	465.6	461.8	447.9	441.6	431.6
67.5°	410.1	408.8	407.6	412.6	407.6	408.8	410.1	405.0	396.2	391.2	377.2
70°	353.3	353.3	352.0	354.6	352.0	353.3	353.3	349.5	344.5	340.6	328.0
72.5°	292.7	291.5	296.5	292.7	296.5	291.5	292.7	291.5	289.0	285.2	272.6
75°	233.4	236.0	233.4	237.2	233.4	236.0	233.4	234.6	233.4	230.9	222.0
77.5°	177.9	180.4	177.9	177.9	177.9	180.4	177.9	179.2	179.2	179.2	171.6
80°	126.2	124.9	124.9	123.7	124.9	124.9	126.2	126.2	127.4	124.9	122.4
82.5°	80.8	79.5	79.5	82.0	79.5	79.5	80.8	82.0	79.5	79.5	79.5
85°	44.1	45.5	42.9	42.9	42.9	45.5	44.1	41.6	44.1	44.1	42.9
87.5°	16.4	15.2	15.2	15.2	15.2	15.2	16.4	17.7	17.7	17.7	18.9
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.2	26.8	30.2	26.0
92.5°	75.4	72.5	60.5	48.4	60.5	72.5	75.4	107.0	149.0	170.0	149.3
95°	256.2	247.2	210.8	174.4	210.8	247.2	256.2	336.4	443.4	496.9	419.6
97.5°	591.4	574.1	504.9	435.8	504.9	574.1	591.4	642.1	709.8	743.6	614.8
100°	830.6	809.9	727.5	645.1	727.5	809.9	830.6	826.8	822.0	819.5	676.6
102.5°	1034.7	1017.1	946.5	875.9	946.5	1017.1	1034.7	970.2	884.0	841.0	696.0
105°	1273.1	1263.7	1225.6	1187.7	1225.6	1263.7	1273.1	1128.2	935.1	838.6	698.2
107.5°	1397.1	1399.4	1408.5	1417.7	1408.5	1399.4	1397.1	1195.0	925.6	790.8	667.1
110°	1428.8	1438.7	1478.2	1517.8	1478.2	1438.7	1428.8	1202.9	901.7	751.1	639.6

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1408.5	1423.7	1484.5	1545.2	1484.5	1423.7	1408.5	1177.3	869.1	715.0	615.5
115°	1339.9	1360.9	1445.1	1529.3	1445.1	1360.9	1339.9	1117.2	820.2	671.7	588.0
117.5°	1244.9	1268.2	1361.6	1455.0	1361.6	1268.2	1244.9	1043.9	775.9	642.0	570.7
120°	1181.0	1203.7	1294.4	1385.1	1294.4	1203.7	1181.0	997.3	752.4	630.0	564.9
122.5°	1117.0	1139.3	1228.9	1318.4	1228.9	1139.3	1117.0	951.6	731.1	620.8	561.8
125°	1032.4	1053.0	1135.4	1217.9	1135.4	1053.0	1032.4	891.9	704.6	610.9	559.2
127.5°	964.5	981.8	1051.5	1121.0	1051.5	981.8	964.5	843.8	683.0	602.6	557.8
130°	921.6	937.6	1001.9	1066.2	1001.9	937.6	921.6	814.2	671.1	599.5	558.8
132.5°	885.0	899.4	956.9	1014.5	956.9	899.4	885.0	788.8	660.7	596.6	559.2
135°	833.3	845.7	895.3	945.0	895.3	845.7	833.3	752.8	645.6	591.9	558.8
137.5°	795.2	805.4	846.0	886.6	846.0	805.4	795.2	727.1	636.4	591.0	562.2
140°	764.7	774.1	812.1	850.0	812.1	774.1	764.7	705.8	627.4	588.3	562.8
142.5°	743.2	751.4	784.1	816.7	784.1	751.4	743.2	691.5	622.7	588.3	564.8
145°	711.0	717.2	741.9	766.7	741.9	717.2	711.0	668.8	612.5	584.4	564.9
147.5°	684.1	689.2	709.7	730.1	709.7	689.2	684.1	650.8	606.5	584.4	568.7
150°	668.5	672.6	689.2	705.8	689.2	672.6	668.5	640.4	603.1	584.4	570.8
152.5°	656.2	659.3	671.8	684.4	671.8	659.3	656.2	632.2	600.3	584.4	572.0
155°	641.5	643.6	651.9	660.2	651.9	643.6	641.5	622.5	597.1	584.4	575.0
157.5°	628.8	630.2	636.1	642.0	636.1	630.2	628.8	614.0	594.2	584.4	577.9
160°	622.5	623.3	626.7	630.0	626.7	623.3	622.5	609.8	592.9	584.4	579.2
162.5°	616.5	617.2	620.5	623.6	620.5	617.2	616.5	605.8	591.5	584.4	580.6
165°	607.4	608.2	611.6	614.9	611.6	608.2	607.4	599.7	589.5	584.4	582.6
167.5°	603.4	603.8	605.1	606.5	605.1	603.8	603.4	598.3	591.6	588.3	586.8
170°	603.4	603.4	603.4	603.4	603.4	603.4	603.4	598.3	591.6	588.3	588.2
172.5°	600.2	599.9	598.7	597.4	598.7	599.9	600.2	596.2	591.0	588.3	588.3
175°	595.8	595.8	595.8	595.8	595.8	595.8	595.8	593.3	590.0	588.3	589.0
177.5°	595.1	594.7	593.3	591.9	593.3	594.7	595.1	593.1	590.4	589.0	589.7
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9

TEST NUMBER: P935302

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1317.3	1323.6	1327.4	1332.4	1345.0
5°	1266.8	1290.8	1298.4	1317.3	1340.1
7.5°	1155.8	1229.0	1249.1	1294.6	1329.9
10°	1048.5	1121.7	1157.1	1264.3	1317.3
12.5°	994.3	1037.2	1061.2	1211.3	1299.7
15°	960.3	990.5	1008.2	1140.7	1279.4
17.5°	933.7	955.2	967.8	1071.2	1251.7
20°	917.3	927.4	938.8	1020.8	1220.1
22.5°	905.9	899.6	908.5	985.5	1177.2
25°	898.4	874.4	884.5	957.7	1126.8
27.5°	904.7	851.7	855.5	932.5	1073.8
30°	905.9	824.0	825.2	905.9	1014.5
32.5°	897.1	794.9	796.2	873.2	947.6
35°	875.6	760.8	759.6	835.3	856.7
37.5°	846.6	724.3	724.3	793.7	757.0
40°	811.4	687.7	691.4	739.4	668.8
42.5°	768.4	648.5	653.6	667.4	603.2
45°	721.7	610.7	614.4	564.0	552.7
47.5°	670.0	571.6	572.8	468.1	536.2
50°	608.1	531.2	526.2	401.3	535.0
52.5°	553.9	487.0	471.9	363.4	485.8
55°	500.9	440.4	407.6	334.3	450.5
57.5°	454.2	379.8	348.3	300.3	442.9
60°	411.3	320.5	296.5	263.7	406.3
62.5°	376.0	276.4	271.3	238.5	368.4
65°	338.2	246.0	244.8	217.1	313.0
67.5°	301.6	225.9	224.6	196.8	238.5
70°	262.4	204.4	201.9	175.4	176.7
72.5°	222.0	180.4	177.9	157.8	146.4
75°	181.7	152.7	151.4	137.5	118.6
77.5°	142.6	121.1	123.7	111.1	87.1
80°	102.2	88.3	90.8	79.5	65.6
82.5°	68.1	58.1	60.5	50.4	44.1
85°	37.8	32.9	34.1	26.5	20.2
87.5°	17.7	15.2	15.2	10.1	6.3
90°	17.5	11.1	10.3	7.2	4.0
92.5°	107.8	76.7	69.9	42.9	15.9
95°	265.2	149.4	137.0	87.6	38.1
97.5°	357.3	164.1	153.2	109.5	65.9
100°	390.8	176.4	166.5	126.9	87.4
102.5°	406.2	188.7	179.4	142.6	105.6
105°	417.5	206.9	199.1	167.9	136.7
107.5°	419.6	234.0	226.7	197.6	168.5
110°	416.4	249.1	242.5	216.2	189.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	416.6	267.3	261.0	236.0	211.0
115°	420.4	294.7	288.9	265.8	242.7
117.5°	428.2	321.4	316.1	295.1	274.1
120°	434.5	336.8	331.9	312.1	292.3
122.5°	443.7	355.2	350.2	330.2	310.3
125°	456.0	378.6	374.0	355.8	337.7
127.5°	468.3	401.2	396.6	378.2	359.8
130°	477.3	416.3	411.3	391.6	371.8
132.5°	484.6	428.6	423.6	403.9	384.1
135°	492.6	442.9	438.4	420.4	402.4
137.5°	504.4	461.2	456.7	438.9	421.1
140°	511.8	473.5	469.4	453.0	436.5
142.5°	517.9	482.7	478.8	463.7	448.5
145°	525.8	496.5	493.2	480.0	466.7
147.5°	537.5	514.0	510.7	497.9	485.0
150°	543.6	523.1	520.2	508.5	496.9
152.5°	547.5	529.1	526.9	518.0	509.2
155°	556.3	542.2	540.6	534.0	527.5
157.5°	565.0	555.3	553.7	547.4	541.0
160°	569.0	561.3	560.0	555.1	550.2
162.5°	573.2	567.7	566.7	563.0	559.2
165°	579.3	576.7	575.9	572.5	569.2
167.5°	584.1	582.0	581.6	580.0	578.3
170°	588.0	587.9	587.5	585.9	584.4
172.5°	588.3	588.3	588.2	587.9	587.5
175°	590.7	591.9	591.9	591.9	591.9
177.5°	591.0	591.9	591.9	591.9	591.9
180°	591.9	591.9	591.9	591.9	591.9

(END OF REPORT)