

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: P935698

Luminaire Tested: SQ4-FA-125U-100D-B35-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935698
REPORT IS A COMBINATION OF REPORTS P933762 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-100D-B35-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

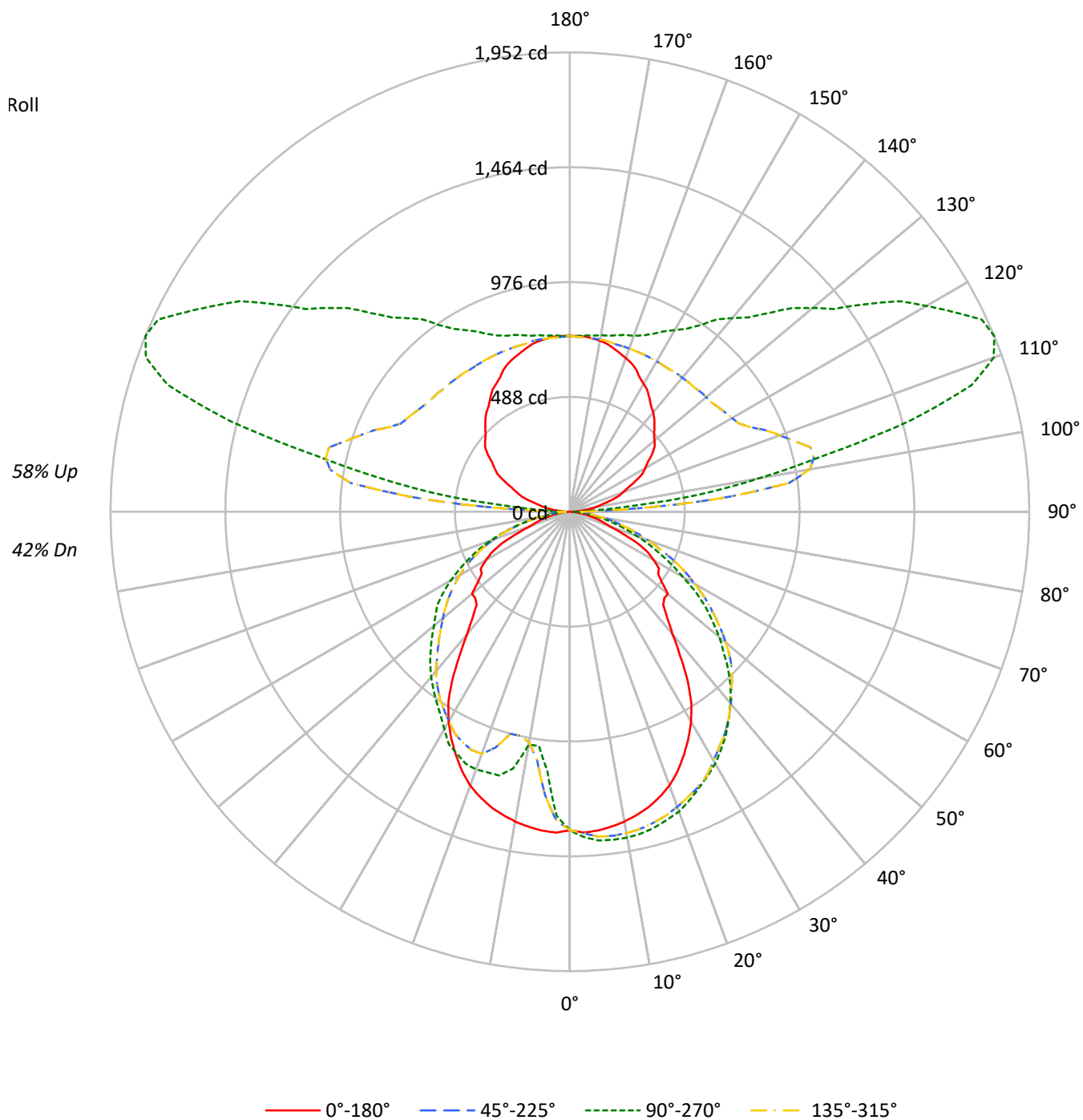
Lumens per Lamp: N/A
Luminaire Lumens: 8357.7 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12557	12557	12557	12557
5°	12638	12676	12638	9967
10°	12539	12486	12539	8927
15°	12388	12216	12388	10200
20°	12115	11895	12115	10221
25°	11571	11428	11571	10005
30°	10873	11040	10873	9530
35°	9678	10549	9678	9007
40°	8051	9971	8051	8612
45°	7180	9294	7180	8159
50°	7609	8489	7609	7702
55°	7140	7619	7140	7438
60°	7332	6471	7332	6812
65°	6616	5348	6616	5979
70°	4552	4263	4552	5013
75°	3945	3151	3945	3773
80°	3117	2083	3117	2269
85°	1689	1103	1689	937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 11024 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.5
10°-20°	346.8	4.1
20°-30°	536.1	6.4
30°-40°	640.0	7.7
40°-50°	643.8	7.7
50°-60°	560.2	6.7
60°-70°	397.2	4.8
70°-80°	210.1	2.5
80°-90°	55.2	0.7
90°-100°	364.4	4.4
100°-110°	958.0	11.5
110°-120°	993.4	11.9
120°-130°	796.8	9.5
130°-140°	625.2	7.5
140°-150°	479.9	5.7
150°-160°	345.6	4.1
160°-170°	211.4	2.5
170°-180°	71.4	0.9
0°-30°	1005.1	12.0
0°-40°	1645.2	19.7
0°-60°	2849.1	34.1
0°-90°	3511.6	42.0
90°-120°	2315.8	27.7
90°-150°	4217.6	50.5
90°-180°	4846.0	58.0
0°-180°	8357.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1353	1353	1353	1353	1353	
5°	1360	1402	1360	1102	1360	129
15°	1298	1389	1298	1160	1298	365
25°	1143	1296	1143	1134	1143	525
35°	869	1156	869	987	869	538
45°	561	952	561	836	561	449
55°	457	703	457	686	457	420
65°	318	424	318	474	318	303
75°	120	201	120	241	120	127
85°	20	51	20	44	20	28
90°	5	19	5	19	5	5
95°	48	220	48	220	48	53
105°	173	1500	173	1500	173	183
115°	306	1932	306	1932	306	303
125°	426	1538	426	1538	426	379
135°	508	1194	508	1194	508	393
145°	590	968	590	968	590	369
155°	666	834	666	834	666	306
165°	719	777	719	777	719	203
175°	748	752	748	752	748	71
180°	748	748	748	748	748	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1364.7	1364.7	1372.5	1375.0	1375.0	1371.1	1367.4	1371.1	1382.7	1386.5	1385.3
5°	1359.7	1369.9	1384.0	1386.5	1389.1	1387.8	1385.3	1387.8	1400.6	1403.2	1404.5
7.5°	1349.4	1368.6	1386.5	1390.4	1394.2	1390.4	1389.1	1391.7	1404.5	1407.0	1407.0
10°	1336.6	1363.5	1384.0	1386.5	1390.4	1386.5	1386.5	1391.7	1404.5	1407.0	1408.3
12.5°	1318.7	1355.8	1375.0	1377.6	1382.7	1381.4	1380.1	1385.3	1398.1	1400.6	1400.6
15°	1298.2	1341.8	1359.7	1362.2	1371.1	1368.6	1368.6	1373.8	1387.8	1391.7	1390.4
17.5°	1270.1	1323.8	1344.3	1348.2	1354.6	1353.2	1354.6	1359.7	1372.5	1375.0	1376.3
20°	1238.0	1299.5	1323.8	1327.6	1334.0	1334.0	1334.0	1340.4	1353.2	1358.3	1358.3
22.5°	1194.5	1273.8	1299.5	1302.0	1309.7	1309.7	1312.3	1321.2	1332.8	1334.0	1334.0
25°	1143.3	1245.7	1267.5	1275.2	1282.9	1286.6	1290.5	1295.6	1299.5	1298.2	1299.5
27.5°	1089.5	1209.9	1238.0	1243.1	1253.4	1257.3	1262.3	1263.7	1264.9	1268.7	1266.2
30°	1029.4	1159.9	1202.1	1207.3	1223.9	1226.5	1221.4	1223.9	1230.3	1233.0	1235.5
32.5°	961.4	1085.7	1165.0	1176.6	1192.0	1184.2	1183.0	1186.8	1197.1	1197.1	1199.6
35°	869.3	1028.1	1130.5	1140.7	1152.2	1143.3	1148.4	1149.7	1156.1	1159.9	1158.6
37.5°	768.1	978.1	1094.7	1102.3	1111.2	1099.7	1107.5	1111.2	1116.4	1113.9	1113.9
40°	678.6	900.0	1052.4	1057.5	1065.2	1056.2	1063.9	1066.5	1069.0	1066.5	1065.2
42.5°	612.0	814.3	1007.6	1014.0	1008.8	1015.2	1017.8	1023.0	1019.1	1014.0	1014.0
45°	560.8	791.2	958.9	966.6	958.9	969.2	973.0	973.0	961.4	958.9	957.7
47.5°	544.1	745.2	910.3	910.3	906.4	919.2	925.7	916.7	905.1	901.4	901.4
50°	542.8	693.9	843.7	838.6	856.5	871.9	865.5	856.5	847.6	833.4	833.4
52.5°	492.9	631.2	758.0	777.1	805.3	814.3	804.0	795.1	779.7	773.3	768.1
55°	457.1	565.9	679.9	718.2	747.7	759.2	740.0	731.0	708.0	704.2	701.6
57.5°	449.4	471.1	608.1	656.8	692.6	691.4	679.9	663.2	644.0	640.1	638.9
60°	412.2	340.5	531.3	589.0	626.1	622.2	612.0	596.6	578.7	576.2	573.6
62.5°	373.8	247.1	444.3	509.6	562.0	560.8	551.8	528.8	516.0	509.6	504.5
65°	317.5	207.4	316.2	423.7	499.3	501.8	482.7	466.0	451.9	444.3	442.9
67.5°	242.0	169.0	213.8	353.4	439.2	436.5	412.2	404.6	386.6	382.8	375.1
70°	179.3	112.7	148.5	286.8	380.2	373.8	354.7	345.6	329.1	320.1	314.9
72.5°	148.5	90.9	108.8	222.8	320.1	312.4	295.7	285.5	271.4	263.8	258.6
75°	120.3	96.0	83.2	165.1	259.9	254.8	239.4	229.2	217.6	207.4	208.7
77.5°	88.4	89.6	66.6	121.6	206.1	198.5	189.4	176.6	171.5	161.3	161.3
80°	66.6	70.4	49.9	83.2	148.5	148.5	140.8	131.9	122.9	117.8	117.8
82.5°	44.8	44.8	37.1	52.5	101.2	97.3	92.2	89.6	84.5	82.0	82.0
85°	20.4	25.6	23.1	32.0	55.0	57.7	57.7	55.0	53.8	51.2	52.5
87.5°	6.4	11.5	14.1	17.9	28.2	29.5	30.7	30.7	30.7	32.0	32.0
90°	5.0	9.0	13.1	14.1	22.1	32.8	38.1	33.8	25.4	19.1	19.1
92.5°	20.1	54.2	88.3	96.8	136.1	188.6	214.7	188.2	135.2	95.3	91.6
95°	48.2	110.6	173.1	188.7	335.0	530.0	627.6	560.1	425.0	323.6	312.1
97.5°	83.2	138.3	193.4	207.2	451.2	776.5	939.2	896.4	811.1	747.0	725.2
100°	110.4	160.4	210.3	222.8	493.5	854.5	1035.0	1038.1	1044.4	1049.0	1023.0
102.5°	133.4	180.0	226.6	238.3	512.9	879.1	1062.1	1116.6	1225.4	1307.0	1284.7
105°	172.6	212.1	251.6	261.4	527.3	881.9	1059.1	1181.1	1425.0	1608.0	1595.9
107.5°	212.7	249.5	286.3	295.5	530.0	842.6	998.9	1169.1	1509.3	1764.5	1767.4
110°	239.8	273.1	306.2	314.5	526.0	807.9	948.7	1139.0	1519.4	1804.7	1817.2

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	266.4	298.1	329.7	337.6	526.1	777.4	903.1	1097.8	1487.1	1779.1	1798.3
115°	306.5	335.8	365.0	372.3	531.0	742.5	848.4	1035.9	1411.0	1692.3	1718.8
117.5°	346.2	372.8	399.3	405.9	540.9	720.8	810.8	979.9	1318.4	1572.3	1601.8
120°	369.3	394.3	419.3	425.5	548.9	713.5	795.7	950.4	1259.6	1491.6	1520.3
122.5°	391.9	417.1	442.3	448.6	560.5	709.6	784.2	923.5	1201.9	1410.8	1439.1
125°	426.5	449.4	472.4	478.1	576.0	706.4	771.6	889.9	1126.5	1303.9	1330.0
127.5°	454.6	477.7	500.9	506.7	591.5	704.6	761.1	862.6	1065.8	1218.1	1240.1
130°	469.6	494.6	519.6	525.8	602.9	705.7	757.1	847.5	1028.3	1164.0	1184.2
132.5°	485.2	510.2	535.2	541.4	612.1	706.4	753.6	834.5	996.4	1117.8	1136.0
135°	508.2	531.0	553.7	559.4	622.1	705.7	747.6	815.4	951.0	1052.6	1068.3
137.5°	531.8	554.3	576.8	582.5	637.1	710.1	746.5	803.8	918.4	1004.4	1017.2
140°	551.4	572.1	592.8	598.1	646.4	710.9	743.0	792.5	891.6	965.8	977.8
142.5°	566.4	585.6	604.8	609.6	654.1	713.4	743.0	786.5	873.5	938.7	948.9
145°	589.5	606.2	623.0	627.1	664.1	713.4	738.0	773.6	844.7	898.1	905.9
147.5°	612.6	628.9	645.2	649.2	678.8	718.2	738.0	766.0	822.0	864.0	870.5
150°	627.6	642.4	657.1	660.8	686.5	720.8	738.0	761.6	808.9	844.4	849.6
152.5°	643.2	654.4	665.5	668.3	691.6	722.5	738.0	758.1	798.6	828.8	832.8
155°	666.3	674.5	682.8	684.8	702.5	726.2	738.0	754.1	786.1	810.3	812.9
157.5°	683.3	691.4	699.3	701.4	713.6	729.9	738.0	750.5	775.5	794.2	796.0
160°	694.9	701.1	707.4	708.9	718.6	731.5	738.0	748.6	770.1	786.1	787.2
162.5°	706.4	711.1	715.8	717.0	723.9	733.3	738.0	747.0	765.1	778.7	779.7
165°	718.9	723.2	727.4	728.5	731.7	735.9	738.0	744.5	757.4	767.1	768.1
167.5°	730.5	732.5	734.5	735.0	737.7	741.3	743.0	747.3	755.7	762.1	762.6
170°	738.0	740.0	742.1	742.5	742.7	742.9	743.0	747.3	755.7	762.1	762.1
172.5°	742.1	742.4	742.9	743.0	743.0	743.0	743.0	746.3	753.0	758.0	757.7
175°	747.6	747.6	747.6	747.6	746.0	744.0	743.0	745.2	749.3	752.5	752.5
177.5°	747.6	747.6	747.6	747.6	746.4	744.8	744.0	745.6	749.0	751.6	751.1
180°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1387.8	1384.0	1387.8	1385.3	1386.5	1382.7	1371.1	1367.4	1371.1	1375.0	1375.0
5°	1404.5	1401.9	1404.5	1404.5	1403.2	1400.6	1387.8	1385.3	1387.8	1389.1	1386.5
7.5°	1409.6	1405.7	1409.6	1407.0	1407.0	1404.5	1391.7	1389.1	1390.4	1394.2	1390.4
10°	1409.6	1405.7	1409.6	1408.3	1407.0	1404.5	1391.7	1386.5	1386.5	1390.4	1386.5
12.5°	1403.2	1400.6	1403.2	1400.6	1400.6	1398.1	1385.3	1380.1	1381.4	1382.7	1377.6
15°	1392.9	1389.1	1392.9	1390.4	1391.7	1387.8	1373.8	1368.6	1368.6	1371.1	1362.2
17.5°	1377.6	1372.5	1377.6	1376.3	1375.0	1372.5	1359.7	1354.6	1353.2	1354.6	1348.2
20°	1359.7	1355.8	1359.7	1358.3	1358.3	1353.2	1340.4	1334.0	1334.0	1334.0	1327.6
22.5°	1331.5	1327.6	1331.5	1334.0	1334.0	1332.8	1321.2	1312.3	1309.7	1309.7	1302.0
25°	1299.5	1295.6	1299.5	1299.5	1298.2	1299.5	1295.6	1290.5	1286.6	1282.9	1275.2
27.5°	1268.7	1266.2	1268.7	1266.2	1268.7	1264.9	1263.7	1262.3	1257.3	1253.4	1243.1
30°	1238.0	1235.5	1238.0	1235.5	1233.0	1230.3	1223.9	1221.4	1226.5	1223.9	1207.3
32.5°	1199.6	1197.1	1199.6	1199.6	1197.1	1197.1	1186.8	1183.0	1184.2	1192.0	1176.6
35°	1159.9	1156.1	1159.9	1158.6	1159.9	1156.1	1149.7	1148.4	1143.3	1152.2	1140.7
37.5°	1113.9	1110.0	1113.9	1113.9	1113.9	1116.4	1111.2	1107.5	1099.7	1111.2	1102.3
40°	1066.5	1061.3	1066.5	1065.2	1066.5	1069.0	1066.5	1063.9	1056.2	1065.2	1057.5
42.5°	1012.7	1011.4	1012.7	1014.0	1014.0	1019.1	1023.0	1017.8	1015.2	1008.8	1014.0
45°	955.0	952.5	955.0	957.7	958.9	961.4	973.0	973.0	969.2	958.9	966.6
47.5°	893.6	887.2	893.6	901.4	901.4	905.1	916.7	925.7	919.2	906.4	910.3
50°	828.3	829.7	828.3	833.4	833.4	847.6	856.5	865.5	871.9	856.5	838.6
52.5°	764.3	763.1	764.3	768.1	773.3	779.7	795.1	804.0	814.3	805.3	777.1
55°	700.3	702.9	700.3	701.6	704.2	708.0	731.0	740.0	759.2	747.7	718.2
57.5°	636.3	632.5	636.3	638.9	640.1	644.0	663.2	679.9	691.4	692.6	656.8
60°	562.0	556.9	562.0	573.6	576.2	578.7	596.6	612.0	622.2	626.1	589.0
62.5°	496.7	487.8	496.7	504.5	509.6	516.0	528.8	551.8	560.8	562.0	509.6
65°	427.6	423.7	427.6	442.9	444.3	451.9	466.0	482.7	501.8	499.3	423.7
67.5°	364.9	364.9	364.9	375.1	382.8	386.6	404.6	412.2	436.5	439.2	353.4
70°	307.3	306.0	307.3	314.9	320.1	329.1	345.6	354.7	373.8	380.2	286.8
72.5°	252.2	251.0	252.2	258.6	263.8	271.4	285.5	295.7	312.4	320.1	222.8
75°	203.6	201.0	203.6	208.7	207.4	217.6	229.2	239.4	254.8	259.9	165.1
77.5°	156.2	156.2	156.2	161.3	161.3	171.5	176.6	189.4	198.5	206.1	121.6
80°	116.5	115.2	116.5	117.8	117.8	122.9	131.9	140.8	148.5	148.5	83.2
82.5°	82.0	79.4	82.0	82.0	82.0	84.5	89.6	92.2	97.3	101.2	52.5
85°	51.2	51.2	51.2	52.5	51.2	53.8	55.0	57.7	57.7	55.0	32.0
87.5°	33.3	32.0	33.3	32.0	32.0	30.7	30.7	30.7	29.5	28.2	17.9
90°	19.1	19.1	19.1	19.1	19.1	25.4	33.8	38.1	32.8	22.1	14.1
92.5°	76.4	61.2	76.4	91.6	95.3	135.2	188.2	214.7	188.6	136.1	96.8
95°	266.2	220.3	266.2	312.1	323.6	425.0	560.1	627.6	530.0	335.0	188.7
97.5°	637.8	550.4	637.8	725.2	747.0	811.1	896.4	939.2	776.5	451.2	207.2
100°	918.9	814.7	918.9	1023.0	1049.0	1044.4	1038.1	1035.0	854.5	493.5	222.8
102.5°	1195.5	1106.3	1195.5	1284.7	1307.0	1225.4	1116.6	1062.1	879.1	512.9	238.3
105°	1548.1	1500.1	1548.1	1595.9	1608.0	1425.0	1181.1	1059.1	881.9	527.3	261.4
107.5°	1779.0	1790.6	1779.0	1767.4	1764.5	1509.3	1169.1	998.9	842.6	530.0	295.5
110°	1867.1	1917.0	1867.1	1817.2	1804.7	1519.4	1139.0	948.7	807.9	526.0	314.5

TEST NUMBER: P935698

CATALOG NUMBER: SQ4-FA-125U-100D-B35-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1874.9	1951.7	1874.9	1798.3	1779.1	1487.1	1097.8	903.1	777.4	526.1	337.6
115°	1825.2	1931.6	1825.2	1718.8	1692.3	1411.0	1035.9	848.4	742.5	531.0	372.3
117.5°	1719.8	1837.7	1719.8	1601.8	1572.3	1318.4	979.9	810.8	720.8	540.9	405.9
120°	1634.8	1749.4	1634.8	1520.3	1491.6	1259.6	950.4	795.7	713.5	548.9	425.5
122.5°	1552.0	1665.1	1552.0	1439.1	1410.8	1201.9	923.5	784.2	709.6	560.5	448.6
125°	1434.0	1538.2	1434.0	1330.0	1303.9	1126.5	889.9	771.6	706.4	576.0	478.1
127.5°	1327.9	1415.8	1327.9	1240.1	1218.1	1065.8	862.6	761.1	704.6	591.5	506.7
130°	1265.4	1346.6	1265.4	1184.2	1164.0	1028.3	847.5	757.1	705.7	602.9	525.8
132.5°	1208.6	1281.3	1208.6	1136.0	1117.8	996.4	834.5	753.6	706.4	612.1	541.4
135°	1130.9	1193.5	1130.9	1068.3	1052.6	951.0	815.4	747.6	705.7	622.1	559.4
137.5°	1068.5	1119.8	1068.5	1017.2	1004.4	918.4	803.8	746.5	710.1	637.1	582.5
140°	1025.7	1073.7	1025.7	977.8	965.8	891.6	792.5	743.0	710.9	646.4	598.1
142.5°	990.2	1031.5	990.2	948.9	938.7	873.5	786.5	743.0	713.4	654.1	609.6
145°	937.1	968.3	937.1	905.9	898.1	844.7	773.6	738.0	713.4	664.1	627.1
147.5°	896.2	922.1	896.2	870.5	864.0	822.0	766.0	738.0	718.2	678.8	649.2
150°	870.6	891.6	870.6	849.6	844.4	808.9	761.6	738.0	720.8	686.5	660.8
152.5°	848.6	864.4	848.6	832.8	828.8	798.6	758.1	738.0	722.5	691.6	668.3
155°	823.4	833.8	823.4	812.9	810.3	786.1	754.1	738.0	726.2	702.5	684.8
157.5°	803.4	810.8	803.4	796.0	794.2	775.5	750.5	738.0	729.9	713.6	701.4
160°	791.5	795.7	791.5	787.2	786.1	770.1	748.6	738.0	731.5	718.6	708.9
162.5°	783.7	787.7	783.7	779.7	778.7	765.1	747.0	738.0	733.3	723.9	717.0
165°	772.4	776.7	772.4	768.1	767.1	757.4	744.5	738.0	735.9	731.7	728.5
167.5°	764.3	766.1	764.3	762.6	762.1	755.7	747.3	743.0	741.3	737.7	735.0
170°	762.1	762.1	762.1	762.1	762.1	755.7	747.3	743.0	742.9	742.7	742.5
172.5°	756.1	754.6	756.1	757.7	758.0	753.0	746.3	743.0	743.0	743.0	743.0
175°	752.5	752.5	752.5	752.5	752.5	749.3	745.2	743.0	744.0	746.0	747.6
177.5°	749.3	747.6	749.3	751.1	751.6	749.0	745.6	744.0	744.8	746.4	747.6
180°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6

TEST NUMBER: P935698

CATALOG NUMBER: SQ4-FA-125U-100D-B35-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1372.5	1364.7	1364.7	1351.9	1346.8	1343.0	1336.6	1317.5	1312.3	1307.2	1314.8
5°	1384.0	1369.9	1359.7	1336.6	1317.5	1309.7	1285.4	1239.4	1208.5	1185.6	1172.8
7.5°	1386.5	1368.6	1349.4	1313.6	1267.5	1247.0	1172.8	1088.3	1065.2	1044.7	1031.9
10°	1384.0	1363.5	1336.6	1282.9	1174.0	1138.2	1063.9	1008.8	994.8	990.9	994.8
12.5°	1375.0	1355.8	1318.7	1229.1	1076.8	1052.4	1008.8	976.8	974.3	980.7	1015.2
15°	1359.7	1341.8	1298.2	1157.4	1023.0	1005.0	974.3	962.8	976.8	1021.6	1125.4
17.5°	1344.3	1323.8	1270.1	1086.9	982.0	969.2	947.4	970.5	1049.8	1110.0	1144.6
20°	1323.8	1299.5	1238.0	1035.8	952.5	941.0	930.7	1034.5	1094.7	1116.4	1135.6
22.5°	1299.5	1273.8	1194.5	999.9	921.8	912.8	919.2	1070.4	1094.7	1110.0	1126.7
25°	1267.5	1245.7	1143.3	971.7	897.5	887.2	911.5	1066.5	1080.5	1084.4	1117.6
27.5°	1238.0	1209.9	1089.5	946.1	868.0	864.2	917.9	1049.8	1060.1	1063.9	1099.7
30°	1202.1	1159.9	1029.4	919.2	837.3	836.1	919.2	1029.4	1026.8	1037.0	1072.9
32.5°	1165.0	1085.7	961.4	886.0	807.9	806.6	910.3	998.7	996.0	1010.2	1037.0
35°	1130.5	1028.1	869.3	847.6	770.7	772.0	888.5	962.8	964.1	976.8	993.5
37.5°	1094.7	978.1	768.1	805.3	734.9	734.9	859.0	929.5	926.9	930.7	953.8
40°	1052.4	900.0	678.6	750.2	701.6	697.8	823.3	893.6	884.7	883.4	915.4
42.5°	1007.6	814.3	612.0	677.2	663.2	658.0	779.7	850.1	833.4	837.3	878.3
45°	958.9	791.2	560.8	572.3	623.5	619.7	732.3	800.2	788.7	798.9	841.2
47.5°	910.3	745.2	544.1	475.0	581.2	579.9	679.9	751.6	745.2	755.3	800.2
50°	843.7	693.9	542.8	407.2	533.9	539.0	617.1	704.2	704.2	713.1	760.5
52.5°	758.0	631.2	492.9	368.7	478.8	494.2	562.0	663.2	665.7	674.7	717.0
55°	679.9	565.9	457.1	339.2	413.6	446.8	508.2	620.9	626.1	635.0	673.5
57.5°	608.1	471.1	449.4	304.8	353.4	385.4	460.9	579.9	582.6	590.2	627.3
60°	531.3	340.5	412.2	267.5	300.9	325.2	417.3	531.3	540.3	545.4	577.4
62.5°	444.3	247.1	373.8	242.0	275.3	280.4	381.5	485.2	496.7	500.6	519.8
65°	316.2	207.4	317.5	220.3	248.4	249.6	343.1	437.9	448.1	454.5	468.6
67.5°	213.8	169.0	242.0	199.7	227.9	229.2	306.0	382.8	396.9	402.0	411.0
70°	148.5	112.7	179.3	178.0	204.8	207.4	266.3	332.9	345.6	349.5	354.7
72.5°	108.8	90.9	148.5	160.1	180.5	183.0	225.3	276.6	289.3	293.2	295.7
75°	83.2	96.0	120.3	139.5	153.6	154.9	184.4	225.3	234.3	236.8	238.1
77.5°	66.6	89.6	88.4	112.7	125.5	122.9	144.7	174.1	181.8	181.8	181.8
80°	49.9	70.4	66.6	80.6	92.2	89.6	103.7	124.2	126.7	129.3	128.0
82.5°	37.1	44.8	44.8	51.2	61.4	58.9	69.1	80.6	80.6	80.6	83.2
85°	23.1	25.6	20.4	26.8	34.6	33.3	38.4	43.5	44.8	44.8	42.2
87.5°	14.1	11.5	6.4	10.3	15.4	15.4	17.9	19.2	17.9	17.9	17.9
90°	13.1	9.0	5.0	9.0	13.1	14.1	22.1	32.8	38.1	33.8	25.4
92.5°	88.3	54.2	20.1	54.2	88.3	96.8	136.1	188.6	214.7	188.2	135.2
95°	173.1	110.6	48.2	110.6	173.1	188.7	335.0	530.0	627.6	560.1	425.0
97.5°	193.4	138.3	83.2	138.3	193.4	207.2	451.2	776.5	939.2	896.4	811.1
100°	210.3	160.4	110.4	160.4	210.3	222.8	493.5	854.5	1035.0	1038.1	1044.4
102.5°	226.6	180.0	133.4	180.0	226.6	238.3	512.9	879.1	1062.1	1116.6	1225.4
105°	251.6	212.1	172.6	212.1	251.6	261.4	527.3	881.9	1059.1	1181.1	1425.0
107.5°	286.3	249.5	212.7	249.5	286.3	295.5	530.0	842.6	998.9	1169.1	1509.3
110°	306.2	273.1	239.8	273.1	306.2	314.5	526.0	807.9	948.7	1139.0	1519.4

TEST NUMBER: P935698

CATALOG NUMBER: SQ4-FA-125U-100D-B35-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	329.7	298.1	266.4	298.1	329.7	337.6	526.1	777.4	903.1	1097.8	1487.1
115°	365.0	335.8	306.5	335.8	365.0	372.3	531.0	742.5	848.4	1035.9	1411.0
117.5°	399.3	372.8	346.2	372.8	399.3	405.9	540.9	720.8	810.8	979.9	1318.4
120°	419.3	394.3	369.3	394.3	419.3	425.5	548.9	713.5	795.7	950.4	1259.6
122.5°	442.3	417.1	391.9	417.1	442.3	448.6	560.5	709.6	784.2	923.5	1201.9
125°	472.4	449.4	426.5	449.4	472.4	478.1	576.0	706.4	771.6	889.9	1126.5
127.5°	500.9	477.7	454.6	477.7	500.9	506.7	591.5	704.6	761.1	862.6	1065.8
130°	519.6	494.6	469.6	494.6	519.6	525.8	602.9	705.7	757.1	847.5	1028.3
132.5°	535.2	510.2	485.2	510.2	535.2	541.4	612.1	706.4	753.6	834.5	996.4
135°	553.7	531.0	508.2	531.0	553.7	559.4	622.1	705.7	747.6	815.4	951.0
137.5°	576.8	554.3	531.8	554.3	576.8	582.5	637.1	710.1	746.5	803.8	918.4
140°	592.8	572.1	551.4	572.1	592.8	598.1	646.4	710.9	743.0	792.5	891.6
142.5°	604.8	585.6	566.4	585.6	604.8	609.6	654.1	713.4	743.0	786.5	873.5
145°	623.0	606.2	589.5	606.2	623.0	627.1	664.1	713.4	738.0	773.6	844.7
147.5°	645.2	628.9	612.6	628.9	645.2	649.2	678.8	718.2	738.0	766.0	822.0
150°	657.1	642.4	627.6	642.4	657.1	660.8	686.5	720.8	738.0	761.6	808.9
152.5°	665.5	654.4	643.2	654.4	665.5	668.3	691.6	722.5	738.0	758.1	798.6
155°	682.8	674.5	666.3	674.5	682.8	684.8	702.5	726.2	738.0	754.1	786.1
157.5°	699.3	691.4	683.3	691.4	699.3	701.4	713.6	729.9	738.0	750.5	775.5
160°	707.4	701.1	694.9	701.1	707.4	708.9	718.6	731.5	738.0	748.6	770.1
162.5°	715.8	711.1	706.4	711.1	715.8	717.0	723.9	733.3	738.0	747.0	765.1
165°	727.4	723.2	718.9	723.2	727.4	728.5	731.7	735.9	738.0	744.5	757.4
167.5°	734.5	732.5	730.5	732.5	734.5	735.0	737.7	741.3	743.0	747.3	755.7
170°	742.1	740.0	738.0	740.0	742.1	742.5	742.7	742.9	743.0	747.3	755.7
172.5°	742.9	742.4	742.1	742.4	742.9	743.0	743.0	743.0	743.0	746.3	753.0
175°	747.6	747.6	747.6	747.6	747.6	747.6	746.0	744.0	743.0	745.2	749.3
177.5°	747.6	747.6	747.6	747.6	747.6	747.6	746.4	744.8	744.0	745.6	749.0
180°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6

TEST NUMBER: P935698

CATALOG NUMBER: SQ4-FA-125U-100D-B35-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1305.9	1302.0	1307.2	1293.0	1307.2	1302.0	1305.9	1314.8	1307.2	1312.3	1317.5
5°	1145.8	1139.4	1119.0	1102.3	1119.0	1139.4	1145.8	1172.8	1185.6	1208.5	1239.4
7.5°	1024.2	1019.1	1014.0	1003.7	1014.0	1019.1	1024.2	1031.9	1044.7	1065.2	1088.3
10°	997.3	998.7	1006.3	1005.0	1006.3	998.7	997.3	994.8	990.9	994.8	1008.8
12.5°	1066.5	1078.0	1120.3	1117.6	1120.3	1078.0	1066.5	1015.2	980.7	974.3	976.8
15°	1145.8	1149.7	1158.6	1159.9	1158.6	1149.7	1145.8	1125.4	1021.6	976.8	962.8
17.5°	1153.5	1154.9	1161.2	1161.2	1161.2	1154.9	1153.5	1144.6	1110.0	1049.8	970.5
20°	1147.1	1149.7	1162.5	1165.0	1162.5	1149.7	1147.1	1135.6	1116.4	1094.7	1034.5
22.5°	1144.6	1149.7	1159.9	1158.6	1159.9	1149.7	1144.6	1126.7	1110.0	1094.7	1070.4
25°	1131.8	1131.8	1133.1	1134.3	1133.1	1131.8	1131.8	1117.6	1084.4	1080.5	1066.5
27.5°	1104.9	1107.5	1115.1	1113.9	1115.1	1107.5	1104.9	1099.7	1063.9	1060.1	1049.8
30°	1080.5	1078.0	1071.6	1066.5	1071.6	1078.0	1080.5	1072.9	1037.0	1026.8	1029.4
32.5°	1039.5	1033.1	1026.8	1023.0	1026.8	1033.1	1039.5	1037.0	1010.2	996.0	998.7
35°	990.9	992.3	990.9	987.1	990.9	992.3	990.9	993.5	976.8	964.1	962.8
37.5°	956.4	958.9	957.7	952.5	957.7	958.9	956.4	953.8	930.7	926.9	929.5
40°	920.6	921.8	920.6	916.7	920.6	921.8	920.6	915.4	883.4	884.7	893.6
42.5°	886.0	884.7	880.8	878.3	880.8	884.7	886.0	878.3	837.3	833.4	850.1
45°	846.2	847.6	839.8	836.1	839.8	847.6	846.2	841.2	798.9	788.7	800.2
47.5°	806.6	806.6	800.2	796.3	800.2	806.6	806.6	800.2	755.3	745.2	751.6
50°	764.3	763.1	754.1	752.8	754.1	763.1	764.3	760.5	713.1	704.2	704.2
52.5°	715.7	715.7	717.0	719.5	717.0	715.7	715.7	717.0	674.7	665.7	663.2
55°	673.5	674.7	683.6	686.2	683.6	674.7	673.5	673.5	635.0	626.1	620.9
57.5°	629.8	629.8	636.3	636.3	636.3	629.8	629.8	627.3	590.2	582.6	579.9
60°	579.9	582.6	587.6	586.3	587.6	582.6	579.9	577.4	545.4	540.3	531.3
62.5°	527.4	530.0	531.3	528.8	531.3	530.0	527.4	519.8	500.6	496.7	485.2
65°	472.4	475.0	476.3	473.7	476.3	475.0	472.4	468.6	454.5	448.1	437.9
67.5°	416.1	414.8	413.6	418.6	413.6	414.8	416.1	411.0	402.0	396.9	382.8
70°	358.4	358.4	357.2	359.8	357.2	358.4	358.4	354.7	349.5	345.6	332.9
72.5°	297.0	295.7	300.9	297.0	300.9	295.7	297.0	295.7	293.2	289.3	276.6
75°	236.8	239.4	236.8	240.7	236.8	239.4	236.8	238.1	236.8	234.3	225.3
77.5°	180.5	183.0	180.5	180.5	180.5	183.0	180.5	181.8	181.8	181.8	174.1
80°	128.0	126.7	126.7	125.5	126.7	126.7	128.0	128.0	129.3	126.7	124.2
82.5°	82.0	80.6	80.6	83.2	80.6	80.6	82.0	83.2	80.6	80.6	80.6
85°	44.8	46.1	43.5	43.5	43.5	46.1	44.8	42.2	44.8	44.8	43.5
87.5°	16.7	15.4	15.4	15.4	15.4	15.4	16.7	17.9	17.9	17.9	19.2
90°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	25.4	33.8	38.1	32.8
92.5°	95.3	91.6	76.4	61.2	76.4	91.6	95.3	135.2	188.2	214.7	188.6
95°	323.6	312.1	266.2	220.3	266.2	312.1	323.6	425.0	560.1	627.6	530.0
97.5°	747.0	725.2	637.8	550.4	637.8	725.2	747.0	811.1	896.4	939.2	776.5
100°	1049.0	1023.0	918.9	814.7	918.9	1023.0	1049.0	1044.4	1038.1	1035.0	854.5
102.5°	1307.0	1284.7	1195.5	1106.3	1195.5	1284.7	1307.0	1225.4	1116.6	1062.1	879.1
105°	1608.0	1595.9	1548.1	1500.1	1548.1	1595.9	1608.0	1425.0	1181.1	1059.1	881.9
107.5°	1764.5	1767.4	1779.0	1790.6	1779.0	1767.4	1764.5	1509.3	1169.1	998.9	842.6
110°	1804.7	1817.2	1867.1	1917.0	1867.1	1817.2	1804.7	1519.4	1139.0	948.7	807.9

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1779.1	1798.3	1874.9	1951.7	1874.9	1798.3	1779.1	1487.1	1097.8	903.1	777.4
115°	1692.3	1718.8	1825.2	1931.6	1825.2	1718.8	1692.3	1411.0	1035.9	848.4	742.5
117.5°	1572.3	1601.8	1719.8	1837.7	1719.8	1601.8	1572.3	1318.4	979.9	810.8	720.8
120°	1491.6	1520.3	1634.8	1749.4	1634.8	1520.3	1491.6	1259.6	950.4	795.7	713.5
122.5°	1410.8	1439.1	1552.0	1665.1	1552.0	1439.1	1410.8	1201.9	923.5	784.2	709.6
125°	1303.9	1330.0	1434.0	1538.2	1434.0	1330.0	1303.9	1126.5	889.9	771.6	706.4
127.5°	1218.1	1240.1	1327.9	1415.8	1327.9	1240.1	1218.1	1065.8	862.6	761.1	704.6
130°	1164.0	1184.2	1265.4	1346.6	1265.4	1184.2	1164.0	1028.3	847.5	757.1	705.7
132.5°	1117.8	1136.0	1208.6	1281.3	1208.6	1136.0	1117.8	996.4	834.5	753.6	706.4
135°	1052.6	1068.3	1130.9	1193.5	1130.9	1068.3	1052.6	951.0	815.4	747.6	705.7
137.5°	1004.4	1017.2	1068.5	1119.8	1068.5	1017.2	1004.4	918.4	803.8	746.5	710.1
140°	965.8	977.8	1025.7	1073.7	1025.7	977.8	965.8	891.6	792.5	743.0	710.9
142.5°	938.7	948.9	990.2	1031.5	990.2	948.9	938.7	873.5	786.5	743.0	713.4
145°	898.1	905.9	937.1	968.3	937.1	905.9	898.1	844.7	773.6	738.0	713.4
147.5°	864.0	870.5	896.2	922.1	896.2	870.5	864.0	822.0	766.0	738.0	718.2
150°	844.4	849.6	870.6	891.6	870.6	849.6	844.4	808.9	761.6	738.0	720.8
152.5°	828.8	832.8	848.6	864.4	848.6	832.8	828.8	798.6	758.1	738.0	722.5
155°	810.3	812.9	823.4	833.8	823.4	812.9	810.3	786.1	754.1	738.0	726.2
157.5°	794.2	796.0	803.4	810.8	803.4	796.0	794.2	775.5	750.5	738.0	729.9
160°	786.1	787.2	791.5	795.7	791.5	787.2	786.1	770.1	748.6	738.0	731.5
162.5°	778.7	779.7	783.7	787.7	783.7	779.7	778.7	765.1	747.0	738.0	733.3
165°	767.1	768.1	772.4	776.7	772.4	768.1	767.1	757.4	744.5	738.0	735.9
167.5°	762.1	762.6	764.3	766.1	764.3	762.6	762.1	755.7	747.3	743.0	741.3
170°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	755.7	747.3	743.0	742.9
172.5°	758.0	757.7	756.1	754.6	756.1	757.7	758.0	753.0	746.3	743.0	743.0
175°	752.5	752.5	752.5	752.5	752.5	752.5	752.5	749.3	745.2	743.0	744.0
177.5°	751.6	751.1	749.3	747.6	749.3	751.1	751.6	749.0	745.6	744.0	744.8
180°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1336.6	1343.0	1346.8	1351.9	1364.7
5°	1285.4	1309.7	1317.5	1336.6	1359.7
7.5°	1172.8	1247.0	1267.5	1313.6	1349.4
10°	1063.9	1138.2	1174.0	1282.9	1336.6
12.5°	1008.8	1052.4	1076.8	1229.1	1318.7
15°	974.3	1005.0	1023.0	1157.4	1298.2
17.5°	947.4	969.2	982.0	1086.9	1270.1
20°	930.7	941.0	952.5	1035.8	1238.0
22.5°	919.2	912.8	921.8	999.9	1194.5
25°	911.5	887.2	897.5	971.7	1143.3
27.5°	917.9	864.2	868.0	946.1	1089.5
30°	919.2	836.1	837.3	919.2	1029.4
32.5°	910.3	806.6	807.9	886.0	961.4
35°	888.5	772.0	770.7	847.6	869.3
37.5°	859.0	734.9	734.9	805.3	768.1
40°	823.3	697.8	701.6	750.2	678.6
42.5°	779.7	658.0	663.2	677.2	612.0
45°	732.3	619.7	623.5	572.3	560.8
47.5°	679.9	579.9	581.2	475.0	544.1
50°	617.1	539.0	533.9	407.2	542.8
52.5°	562.0	494.2	478.8	368.7	492.9
55°	508.2	446.8	413.6	339.2	457.1
57.5°	460.9	385.4	353.4	304.8	449.4
60°	417.3	325.2	300.9	267.5	412.2
62.5°	381.5	280.4	275.3	242.0	373.8
65°	343.1	249.6	248.4	220.3	317.5
67.5°	306.0	229.2	227.9	199.7	242.0
70°	266.3	207.4	204.8	178.0	179.3
72.5°	225.3	183.0	180.5	160.1	148.5
75°	184.4	154.9	153.6	139.5	120.3
77.5°	144.7	122.9	125.5	112.7	88.4
80°	103.7	89.6	92.2	80.6	66.6
82.5°	69.1	58.9	61.4	51.2	44.8
85°	38.4	33.3	34.6	26.8	20.4
87.5°	17.9	15.4	15.4	10.3	6.4
90°	22.1	14.1	13.1	9.0	5.0
92.5°	136.1	96.8	88.3	54.2	20.1
95°	335.0	188.7	173.1	110.6	48.2
97.5°	451.2	207.2	193.4	138.3	83.2
100°	493.5	222.8	210.3	160.4	110.4
102.5°	512.9	238.3	226.6	180.0	133.4
105°	527.3	261.4	251.6	212.1	172.6
107.5°	530.0	295.5	286.3	249.5	212.7
110°	526.0	314.5	306.2	273.1	239.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	526.1	337.6	329.7	298.1	266.4
115°	531.0	372.3	365.0	335.8	306.5
117.5°	540.9	405.9	399.3	372.8	346.2
120°	548.9	425.5	419.3	394.3	369.3
122.5°	560.5	448.6	442.3	417.1	391.9
125°	576.0	478.1	472.4	449.4	426.5
127.5°	591.5	506.7	500.9	477.7	454.6
130°	602.9	525.8	519.6	494.6	469.6
132.5°	612.1	541.4	535.2	510.2	485.2
135°	622.1	559.4	553.7	531.0	508.2
137.5°	637.1	582.5	576.8	554.3	531.8
140°	646.4	598.1	592.8	572.1	551.4
142.5°	654.1	609.6	604.8	585.6	566.4
145°	664.1	627.1	623.0	606.2	589.5
147.5°	678.8	649.2	645.2	628.9	612.6
150°	686.5	660.8	657.1	642.4	627.6
152.5°	691.6	668.3	665.5	654.4	643.2
155°	702.5	684.8	682.8	674.5	666.3
157.5°	713.6	701.4	699.3	691.4	683.3
160°	718.6	708.9	707.4	701.1	694.9
162.5°	723.9	717.0	715.8	711.1	706.4
165°	731.7	728.5	727.4	723.2	718.9
167.5°	737.7	735.0	734.5	732.5	730.5
170°	742.7	742.5	742.1	740.0	738.0
172.5°	743.0	743.0	742.9	742.4	742.1
175°	746.0	747.6	747.6	747.6	747.6
177.5°	746.4	747.6	747.6	747.6	747.6
180°	747.6	747.6	747.6	747.6	747.6

(END OF REPORT)