

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: P934198

Luminaire Tested: SQ4-FA-025U-125D-B35-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934198
REPORT IS A COMBINATION OF REPORTS P933686 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-B35-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

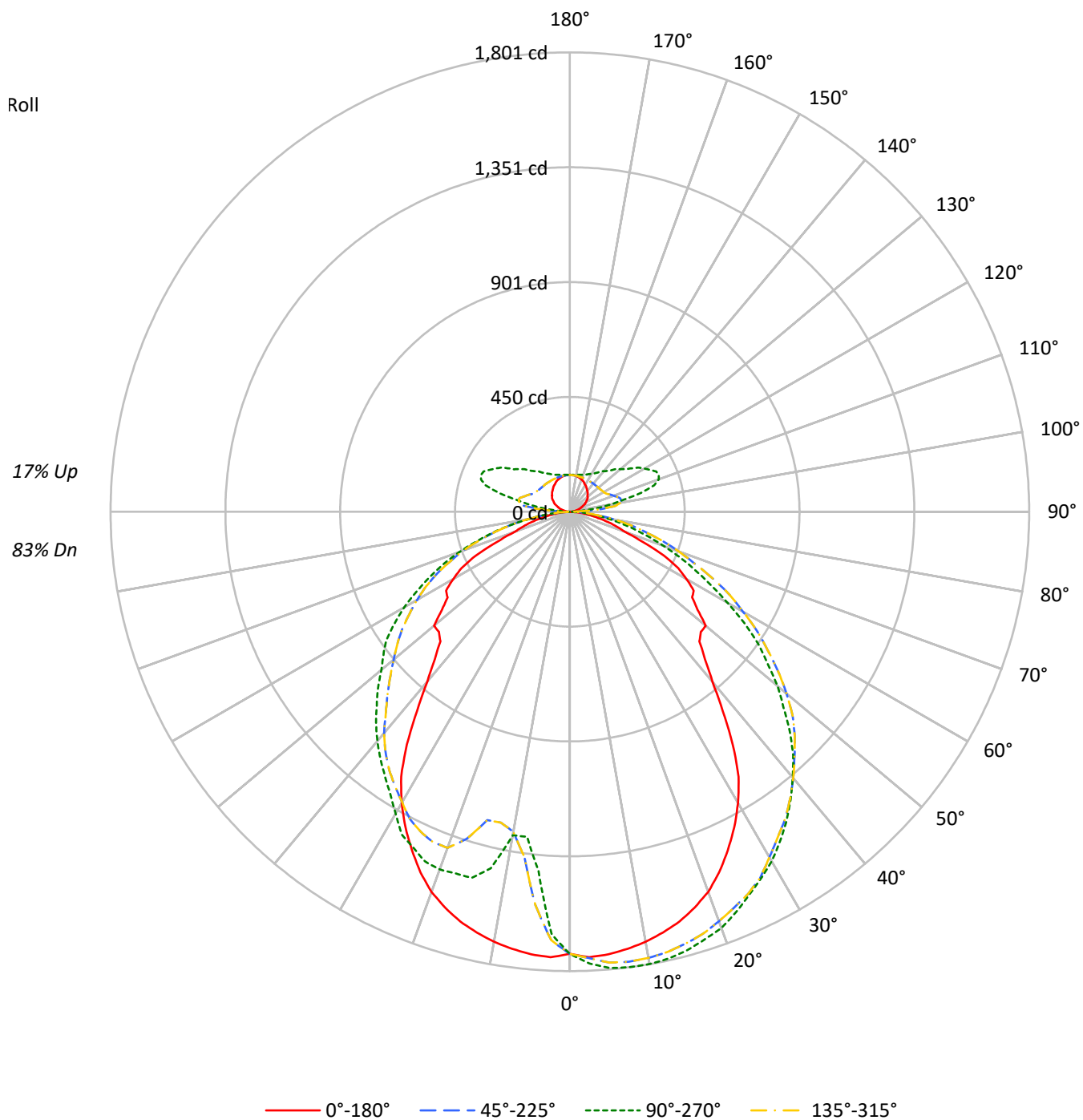
Lumens per Lamp: N/A
Luminaire Lumens: 5432.2 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 49.6
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



TEST NUMBER: P934198

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16084	16084	16084	16084
5°	16186	16237	16186	12766
10°	16060	15994	16060	11434
15°	15868	15647	15868	13065
20°	15518	15236	15518	13093
25°	14820	14637	14820	12815
30°	13925	14141	13925	12206
35°	12397	13512	12397	11537
40°	10311	12771	10311	11030
45°	9195	11906	9195	10449
50°	9747	10872	9747	9866
55°	9146	9759	9146	9528
60°	9392	8289	9392	8727
65°	8475	6851	8475	7659
70°	5829	5461	5829	6420
75°	5057	4037	5057	4833
80°	3992	2669	3992	2905
85°	2178	1413	2178	1200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 14120 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	2.9
10°-20°	444.2	8.2
20°-30°	686.7	12.6
30°-40°	819.8	15.1
40°-50°	824.6	15.2
50°-60°	717.5	13.2
60°-70°	508.7	9.4
70°-80°	269.2	5.0
80°-90°	67.6	1.2
90°-100°	70.5	1.3
100°-110°	185.3	3.4
110°-120°	192.2	3.5
120°-130°	154.1	2.8
130°-140°	120.9	2.2
140°-150°	92.8	1.7
150°-160°	66.8	1.2
160°-170°	40.9	0.8
170°-180°	13.8	0.3
0°-30°	1287.4	23.7
0°-40°	2107.2	38.8
0°-60°	3649.3	67.2
0°-90°	4494.8	82.7
90°-120°	448.0	8.2
90°-150°	815.9	15.0
90°-180°	937.0	17.2
0°-180°	5432.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1733	1733	1733	1733	1733	
5°	1742	1796	1742	1412	1742	165
15°	1663	1779	1663	1486	1663	468
25°	1464	1660	1464	1453	1464	672
35°	1114	1481	1114	1264	1114	689
45°	718	1220	718	1071	718	575
55°	586	900	586	879	586	538
65°	407	543	407	607	407	389
75°	154	258	154	308	154	162
85°	26	66	26	56	26	35
90°	1	4	1	4	1	2
95°	9	43	9	43	9	10
105°	33	290	33	290	33	35
115°	59	374	59	374	59	59
125°	82	298	82	298	82	73
135°	98	231	98	231	98	76
145°	114	187	114	187	114	71
155°	129	161	129	161	129	59
165°	139	150	139	150	139	39
175°	145	146	145	146	145	14
180°	145	145	145	145	145	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1748.1	1748.1	1758.0	1761.3	1761.3	1756.3	1751.4	1756.3	1771.0	1776.0	1774.3
5°	1741.5	1754.7	1772.7	1776.0	1779.3	1777.6	1774.3	1777.6	1794.0	1797.3	1798.9
7.5°	1728.4	1753.0	1776.0	1780.9	1785.8	1780.9	1779.3	1782.6	1798.9	1802.2	1802.2
10°	1712.0	1746.4	1772.7	1776.0	1780.9	1776.0	1776.0	1782.6	1798.9	1802.2	1803.9
12.5°	1689.1	1736.6	1761.3	1764.5	1771.0	1769.4	1767.7	1774.3	1790.7	1794.0	1794.0
15°	1662.8	1718.6	1741.5	1744.8	1756.3	1753.0	1753.0	1759.6	1777.6	1782.6	1780.9
17.5°	1626.8	1695.7	1721.8	1726.8	1735.0	1733.3	1735.0	1741.5	1758.0	1761.3	1762.8
20°	1585.8	1664.5	1695.7	1700.5	1708.7	1708.7	1708.7	1717.0	1733.3	1739.9	1739.9
22.5°	1530.0	1631.7	1664.5	1667.7	1677.5	1677.5	1680.8	1692.4	1707.1	1708.7	1708.7
25°	1464.4	1595.6	1623.5	1633.3	1643.1	1648.1	1653.0	1659.5	1664.5	1662.8	1664.5
27.5°	1395.6	1549.6	1585.8	1592.3	1605.4	1610.4	1616.9	1618.5	1620.2	1625.1	1621.8
30°	1318.4	1485.7	1539.8	1546.4	1567.7	1570.9	1564.5	1567.7	1575.9	1579.2	1582.5
32.5°	1231.5	1390.6	1492.3	1507.0	1526.8	1516.9	1515.2	1520.2	1533.2	1533.2	1536.5
35°	1113.5	1316.8	1448.0	1461.2	1475.9	1464.4	1470.9	1472.6	1480.8	1485.7	1484.1
37.5°	983.9	1252.8	1402.0	1411.9	1423.4	1408.6	1418.5	1423.4	1430.0	1426.7	1426.7
40°	869.1	1152.8	1348.0	1354.6	1364.4	1352.9	1362.7	1366.0	1369.3	1366.0	1364.4
42.5°	783.8	1042.9	1290.6	1298.8	1292.2	1300.4	1303.7	1310.3	1305.3	1298.8	1298.8
45°	718.2	1013.5	1228.2	1238.1	1228.2	1241.4	1246.3	1246.3	1231.5	1228.2	1226.7
47.5°	696.9	954.4	1165.9	1165.9	1161.1	1177.4	1185.6	1174.1	1159.4	1154.5	1154.5
50°	695.3	888.8	1080.6	1074.1	1097.1	1116.8	1108.5	1097.1	1085.6	1067.5	1067.5
52.5°	631.3	808.4	970.8	995.4	1031.5	1042.9	1029.9	1018.3	998.7	990.5	983.9
55°	585.5	724.8	870.7	920.0	957.7	972.4	947.9	936.3	906.9	901.9	898.7
57.5°	575.6	603.5	779.0	841.3	887.1	885.6	870.7	849.4	824.8	820.0	818.3
60°	528.0	436.2	680.5	754.4	801.8	797.0	783.8	764.2	741.2	737.9	734.7
62.5°	478.9	316.5	569.0	652.6	719.9	718.2	706.8	677.2	660.9	652.6	646.1
65°	406.7	265.7	405.0	542.8	639.5	642.8	618.2	596.9	578.9	569.0	567.3
67.5°	309.9	216.5	273.8	452.6	562.5	559.2	528.0	518.2	495.3	490.3	480.5
70°	229.6	144.3	190.2	367.3	487.0	478.9	454.3	442.7	421.4	410.0	403.4
72.5°	190.2	116.5	139.3	285.4	410.0	400.1	378.8	365.7	347.7	337.8	331.2
75°	154.2	123.0	106.6	211.5	332.9	326.4	306.7	293.5	278.8	265.7	267.3
77.5°	113.2	114.8	85.3	155.8	264.1	254.2	242.7	226.3	219.8	206.6	206.6
80°	85.3	90.2	64.0	106.6	190.2	190.2	180.4	168.9	157.5	150.9	150.9
82.5°	57.4	57.4	47.6	67.2	129.6	124.6	118.0	114.8	108.2	104.9	104.9
85°	26.3	32.8	29.6	41.0	70.5	73.8	73.8	70.5	68.9	65.6	67.2
87.5°	8.2	14.7	18.0	23.0	36.0	37.7	39.3	39.3	39.3	41.0	41.0
90°	1.0	1.7	2.5	2.7	4.3	6.3	7.4	6.6	4.9	3.7	3.7
92.5°	3.9	10.5	17.1	18.7	26.4	36.5	41.6	36.4	26.2	18.4	17.6
95°	9.3	21.4	33.5	36.5	64.8	102.5	121.4	108.3	82.2	62.6	60.4
97.5°	16.1	26.7	37.4	40.1	87.3	150.2	181.7	173.5	156.9	144.5	140.2
100°	21.3	31.0	40.7	43.1	95.4	165.3	200.2	200.8	202.0	202.9	197.9
102.5°	25.8	34.8	43.9	46.1	99.2	170.1	205.4	216.0	237.0	252.8	248.5
105°	33.4	41.1	48.6	50.6	102.0	170.5	204.8	228.5	275.7	311.0	308.7
107.5°	41.2	48.3	55.4	57.2	102.5	163.0	193.2	226.2	292.0	341.4	342.0
110°	46.4	52.8	59.2	60.9	101.7	156.3	183.5	220.4	293.9	349.1	351.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	51.6	57.7	63.8	65.3	101.7	150.4	174.7	212.4	287.7	344.2	347.9
115°	59.3	64.9	70.5	72.0	102.7	143.7	164.1	200.4	273.0	327.3	332.5
117.5°	67.0	72.1	77.2	78.5	104.7	139.4	156.9	189.6	255.0	304.2	309.9
120°	71.4	76.3	81.1	82.3	106.1	138.0	153.9	183.8	243.7	288.6	294.1
122.5°	75.8	80.6	85.5	86.7	108.3	137.2	151.6	178.6	232.5	272.9	278.3
125°	82.5	86.9	91.4	92.5	111.4	136.6	149.2	172.1	217.9	252.2	257.3
127.5°	87.9	92.4	96.9	98.1	114.4	136.2	147.2	166.9	206.2	235.7	239.9
130°	90.8	95.6	100.5	101.7	116.7	136.5	146.4	164.0	198.9	225.2	229.1
132.5°	93.9	98.7	103.6	104.7	118.4	136.6	145.7	161.4	192.7	216.3	219.8
135°	98.4	102.7	107.2	108.2	120.3	136.5	144.6	157.7	183.9	203.6	206.6
137.5°	102.9	107.3	111.6	112.7	123.3	137.3	144.4	155.4	177.6	194.3	196.8
140°	106.7	110.7	114.7	115.7	125.0	137.5	143.7	153.3	172.5	186.8	189.1
142.5°	109.6	113.3	117.0	117.9	126.6	138.0	143.7	152.1	169.0	181.6	183.6
145°	114.1	117.2	120.5	121.3	128.5	138.0	142.7	149.6	163.4	173.7	175.3
147.5°	118.5	121.6	124.8	125.6	131.3	139.0	142.7	148.2	159.0	167.2	168.4
150°	121.4	124.2	127.1	127.8	132.8	139.4	142.7	147.3	156.5	163.4	164.3
152.5°	124.4	126.6	128.7	129.3	133.7	139.7	142.7	146.6	154.5	160.4	161.1
155°	128.9	130.4	132.1	132.5	135.9	140.4	142.7	145.8	152.1	156.8	157.3
157.5°	132.2	133.7	135.3	135.7	138.0	141.2	142.7	145.2	150.0	153.6	154.0
160°	134.4	135.6	136.8	137.1	139.0	141.5	142.7	144.8	148.9	152.0	152.2
162.5°	136.6	137.5	138.5	138.7	140.0	141.9	142.7	144.5	148.0	150.6	150.8
165°	139.1	139.8	140.7	140.9	141.5	142.3	142.7	144.0	146.5	148.4	148.5
167.5°	141.3	141.7	142.1	142.2	142.6	143.3	143.7	144.5	146.1	147.4	147.5
170°	142.7	143.1	143.5	143.6	143.6	143.7	143.7	144.5	146.1	147.4	147.4
172.5°	143.5	143.6	143.7	143.7	143.7	143.7	143.7	144.4	145.6	146.6	146.5
175°	144.6	144.6	144.6	144.6	144.3	143.9	143.7	144.1	145.0	145.5	145.5
177.5°	144.6	144.6	144.6	144.6	144.4	144.1	143.9	144.2	144.9	145.4	145.3
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1777.6	1772.7	1777.6	1774.3	1776.0	1771.0	1756.3	1751.4	1756.3	1761.3	1761.3
5°	1798.9	1795.7	1798.9	1798.9	1797.3	1794.0	1777.6	1774.3	1777.6	1779.3	1776.0
7.5°	1805.4	1800.6	1805.4	1802.2	1802.2	1798.9	1782.6	1779.3	1780.9	1785.8	1780.9
10°	1805.4	1800.6	1805.4	1803.9	1802.2	1798.9	1782.6	1776.0	1776.0	1780.9	1776.0
12.5°	1797.3	1794.0	1797.3	1794.0	1794.0	1790.7	1774.3	1767.7	1769.4	1771.0	1764.5
15°	1784.1	1779.3	1784.1	1780.9	1782.6	1777.6	1759.6	1753.0	1753.0	1756.3	1744.8
17.5°	1764.5	1758.0	1764.5	1762.8	1761.3	1758.0	1741.5	1735.0	1733.3	1735.0	1726.8
20°	1741.5	1736.6	1741.5	1739.9	1739.9	1733.3	1717.0	1708.7	1708.7	1708.7	1700.5
22.5°	1705.4	1700.5	1705.4	1708.7	1708.7	1707.1	1692.4	1680.8	1677.5	1677.5	1667.7
25°	1664.5	1659.5	1664.5	1664.5	1662.8	1664.5	1659.5	1653.0	1648.1	1643.1	1633.3
27.5°	1625.1	1621.8	1625.1	1621.8	1625.1	1620.2	1618.5	1616.9	1610.4	1605.4	1592.3
30°	1585.8	1582.5	1585.8	1582.5	1579.2	1575.9	1567.7	1564.5	1570.9	1567.7	1546.4
32.5°	1536.5	1533.2	1536.5	1536.5	1533.2	1533.2	1520.2	1515.2	1516.9	1526.8	1507.0
35°	1485.7	1480.8	1485.7	1484.1	1485.7	1480.8	1472.6	1470.9	1464.4	1475.9	1461.2
37.5°	1426.7	1421.7	1426.7	1426.7	1426.7	1430.0	1423.4	1418.5	1408.6	1423.4	1411.9
40°	1366.0	1359.4	1366.0	1364.4	1366.0	1369.3	1366.0	1362.7	1352.9	1364.4	1354.6
42.5°	1297.1	1295.5	1297.1	1298.8	1298.8	1305.3	1310.3	1303.7	1300.4	1292.2	1298.8
45°	1223.4	1220.1	1223.4	1226.7	1228.2	1231.5	1246.3	1246.3	1241.4	1228.2	1238.1
47.5°	1144.6	1136.4	1144.6	1154.5	1154.5	1159.4	1174.1	1185.6	1177.4	1161.1	1165.9
50°	1061.0	1062.6	1061.0	1067.5	1067.5	1085.6	1097.1	1108.5	1116.8	1097.1	1074.1
52.5°	979.0	977.3	979.0	983.9	990.5	998.7	1018.3	1029.9	1042.9	1031.5	995.4
55°	897.0	900.3	897.0	898.7	901.9	906.9	936.3	947.9	972.4	957.7	920.0
57.5°	815.0	810.1	815.0	818.3	820.0	824.8	849.4	870.7	885.6	887.1	841.3
60°	719.9	713.4	719.9	734.7	737.9	741.2	764.2	783.8	797.0	801.8	754.4
62.5°	636.2	624.8	636.2	646.1	652.6	660.9	677.2	706.8	718.2	719.9	652.6
65°	547.7	542.8	547.7	567.3	569.0	578.9	596.9	618.2	642.8	639.5	542.8
67.5°	467.3	467.3	467.3	480.5	490.3	495.3	518.2	528.0	559.2	562.5	452.6
70°	393.6	392.0	393.6	403.4	410.0	421.4	442.7	454.3	478.9	487.0	367.3
72.5°	323.1	321.4	323.1	331.2	337.8	347.7	365.7	378.8	400.1	410.0	285.4
75°	260.8	257.5	260.8	267.3	265.7	278.8	293.5	306.7	326.4	332.9	211.5
77.5°	200.1	200.1	200.1	206.6	206.6	219.8	226.3	242.7	254.2	264.1	155.8
80°	149.2	147.6	149.2	150.9	150.9	157.5	168.9	180.4	190.2	190.2	106.6
82.5°	104.9	101.6	104.9	104.9	104.9	108.2	114.8	118.0	124.6	129.6	67.2
85°	65.6	65.6	65.6	67.2	65.6	68.9	70.5	73.8	73.8	70.5	41.0
87.5°	42.6	41.0	42.6	41.0	41.0	39.3	39.3	39.3	37.7	36.0	23.0
90°	3.7	3.7	3.7	3.7	3.7	4.9	6.6	7.4	6.3	4.3	2.7
92.5°	14.7	11.8	14.7	17.6	18.4	26.2	36.4	41.6	36.5	26.4	18.7
95°	51.6	42.6	51.6	60.4	62.6	82.2	108.3	121.4	102.5	64.8	36.5
97.5°	123.4	106.5	123.4	140.2	144.5	156.9	173.5	181.7	150.2	87.3	40.1
100°	177.8	157.7	177.8	197.9	202.9	202.0	200.8	200.2	165.3	95.4	43.1
102.5°	231.2	214.0	231.2	248.5	252.8	237.0	216.0	205.4	170.1	99.2	46.1
105°	299.5	290.2	299.5	308.7	311.0	275.7	228.5	204.8	170.5	102.0	50.6
107.5°	344.2	346.4	344.2	342.0	341.4	292.0	226.2	193.2	163.0	102.5	57.2
110°	361.1	370.8	361.1	351.6	349.1	293.9	220.4	183.5	156.3	101.7	60.9

TEST NUMBER: P934198

CATALOG NUMBER: SQ4-FA-025U-125D-B35-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	362.7	377.5	362.7	347.9	344.2	287.7	212.4	174.7	150.4	101.7	65.3
115°	353.1	373.6	353.1	332.5	327.3	273.0	200.4	164.1	143.7	102.7	72.0
117.5°	332.7	355.5	332.7	309.9	304.2	255.0	189.6	156.9	139.4	104.7	78.5
120°	316.3	338.4	316.3	294.1	288.6	243.7	183.8	153.9	138.0	106.1	82.3
122.5°	300.2	322.1	300.2	278.3	272.9	232.5	178.6	151.6	137.2	108.3	86.7
125°	277.4	297.6	277.4	257.3	252.2	217.9	172.1	149.2	136.6	111.4	92.5
127.5°	256.9	273.8	256.9	239.9	235.7	206.2	166.9	147.2	136.2	114.4	98.1
130°	244.8	260.5	244.8	229.1	225.2	198.9	164.0	146.4	136.5	116.7	101.7
132.5°	233.8	247.9	233.8	219.8	216.3	192.7	161.4	145.7	136.6	118.4	104.7
135°	218.8	230.9	218.8	206.6	203.6	183.9	157.7	144.6	136.5	120.3	108.2
137.5°	206.7	216.7	206.7	196.8	194.3	177.6	155.4	144.4	137.3	123.3	112.7
140°	198.4	207.7	198.4	189.1	186.8	172.5	153.3	143.7	137.5	125.0	115.7
142.5°	191.6	199.5	191.6	183.6	181.6	169.0	152.1	143.7	138.0	126.6	117.9
145°	181.3	187.3	181.3	175.3	173.7	163.4	149.6	142.7	138.0	128.5	121.3
147.5°	173.4	178.4	173.4	168.4	167.2	159.0	148.2	142.7	139.0	131.3	125.6
150°	168.4	172.5	168.4	164.3	163.4	156.5	147.3	142.7	139.4	132.8	127.8
152.5°	164.1	167.2	164.1	161.1	160.4	154.5	146.6	142.7	139.7	133.7	129.3
155°	159.3	161.3	159.3	157.3	156.8	152.1	145.8	142.7	140.4	135.9	132.5
157.5°	155.4	156.9	155.4	154.0	153.6	150.0	145.2	142.7	141.2	138.0	135.7
160°	153.1	153.9	153.1	152.2	152.0	148.9	144.8	142.7	141.5	139.0	137.1
162.5°	151.6	152.3	151.6	150.8	150.6	148.0	144.5	142.7	141.9	140.0	138.7
165°	149.4	150.2	149.4	148.5	148.4	146.5	144.0	142.7	142.3	141.5	140.9
167.5°	147.8	148.2	147.8	147.5	147.4	146.1	144.5	143.7	143.3	142.6	142.2
170°	147.4	147.4	147.4	147.4	147.4	146.1	144.5	143.7	143.7	143.6	143.6
172.5°	146.2	145.9	146.2	146.5	146.6	145.6	144.4	143.7	143.7	143.7	143.7
175°	145.5	145.5	145.5	145.5	145.5	145.0	144.1	143.7	143.9	144.3	144.6
177.5°	145.0	144.6	145.0	145.3	145.4	144.9	144.2	143.9	144.1	144.4	144.6
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6

TEST NUMBER: P934198

CATALOG NUMBER: SQ4-FA-025U-125D-B35-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1758.0	1748.1	1748.1	1731.7	1725.1	1720.2	1712.0	1687.4	1680.8	1674.3	1684.1
5°	1772.7	1754.7	1741.5	1712.0	1687.4	1677.5	1646.4	1587.4	1548.1	1518.5	1502.1
7.5°	1776.0	1753.0	1728.4	1682.5	1623.5	1597.2	1502.1	1393.9	1364.4	1338.1	1321.7
10°	1772.7	1746.4	1712.0	1643.1	1503.8	1457.9	1362.7	1292.2	1274.1	1269.3	1274.1
12.5°	1761.3	1736.6	1689.1	1574.2	1379.1	1348.0	1292.2	1251.2	1248.0	1256.1	1300.4
15°	1741.5	1718.6	1662.8	1482.5	1310.3	1287.3	1248.0	1233.1	1251.2	1308.6	1441.5
17.5°	1721.8	1695.7	1626.8	1392.3	1257.8	1241.4	1213.5	1243.0	1344.7	1421.7	1466.0
20°	1695.7	1664.5	1585.8	1326.7	1220.1	1205.3	1192.2	1325.0	1402.0	1430.0	1454.6
22.5°	1664.5	1631.7	1530.0	1280.7	1180.7	1169.2	1177.4	1370.9	1402.0	1421.7	1443.0
25°	1623.5	1595.6	1464.4	1244.7	1149.5	1136.4	1167.5	1366.0	1384.0	1389.0	1431.6
27.5°	1585.8	1549.6	1395.6	1211.8	1111.8	1106.9	1175.8	1344.7	1357.8	1362.7	1408.6
30°	1539.8	1485.7	1318.4	1177.4	1072.5	1070.8	1177.4	1318.4	1315.1	1328.3	1374.2
32.5°	1492.3	1390.6	1231.5	1134.8	1034.8	1033.1	1165.9	1279.1	1275.8	1293.8	1328.3
35°	1448.0	1316.8	1113.5	1085.6	987.2	988.9	1138.1	1233.1	1234.8	1251.2	1272.5
37.5°	1402.0	1252.8	983.9	1031.5	941.3	941.3	1100.3	1190.5	1187.2	1192.2	1221.7
40°	1348.0	1152.8	869.1	961.0	898.7	893.7	1054.5	1144.6	1133.1	1131.5	1172.5
42.5°	1290.6	1042.9	783.8	867.4	849.4	842.9	998.7	1088.9	1067.5	1072.5	1124.9
45°	1228.2	1013.5	718.2	733.0	798.6	793.7	938.0	1024.9	1010.2	1023.3	1077.4
47.5°	1165.9	954.4	696.9	608.4	744.5	742.8	870.7	962.6	954.4	967.5	1024.9
50°	1080.6	888.8	695.3	521.5	683.8	690.4	790.4	901.9	901.9	913.4	974.0
52.5°	970.8	808.4	631.3	472.3	613.3	633.0	719.9	849.4	852.7	864.3	918.3
55°	870.7	724.8	585.5	434.6	529.7	572.3	651.1	795.4	801.8	813.4	862.6
57.5°	779.0	603.5	575.6	390.3	452.6	493.6	590.3	742.8	746.1	756.0	803.5
60°	680.5	436.2	528.0	342.7	385.4	416.5	534.6	680.5	692.1	698.6	739.5
62.5°	569.0	316.5	478.9	309.9	352.5	359.1	488.7	621.5	636.2	641.2	665.8
65°	405.0	265.7	406.7	282.1	318.1	319.8	439.4	560.9	573.9	582.2	600.2
67.5°	273.8	216.5	309.9	255.8	291.9	293.5	392.0	490.3	508.3	514.9	526.4
70°	190.2	144.3	229.6	227.9	262.4	265.7	341.1	426.4	442.7	447.7	454.3
72.5°	139.3	116.5	190.2	204.9	231.2	234.5	288.6	354.2	370.6	375.5	378.8
75°	106.6	123.0	154.2	178.8	196.8	198.5	236.1	288.6	300.1	303.4	305.0
77.5°	85.3	114.8	113.2	144.3	160.7	157.5	185.3	223.1	232.9	232.9	232.9
80°	64.0	90.2	85.3	103.3	118.0	114.8	132.8	159.1	162.3	165.6	164.0
82.5°	47.6	57.4	57.4	65.6	78.7	75.4	88.6	103.3	103.3	103.3	106.6
85°	29.6	32.8	26.3	34.4	44.3	42.6	49.2	55.7	57.4	57.4	54.1
87.5°	18.0	14.7	8.2	13.1	19.7	19.7	23.0	24.6	23.0	23.0	23.0
90°	2.5	1.7	1.0	1.7	2.5	2.7	4.3	6.3	7.4	6.6	4.9
92.5°	17.1	10.5	3.9	10.5	17.1	18.7	26.4	36.5	41.6	36.4	26.2
95°	33.5	21.4	9.3	21.4	33.5	36.5	64.8	102.5	121.4	108.3	82.2
97.5°	37.4	26.7	16.1	26.7	37.4	40.1	87.3	150.2	181.7	173.5	156.9
100°	40.7	31.0	21.3	31.0	40.7	43.1	95.4	165.3	200.2	200.8	202.0
102.5°	43.9	34.8	25.8	34.8	43.9	46.1	99.2	170.1	205.4	216.0	237.0
105°	48.6	41.1	33.4	41.1	48.6	50.6	102.0	170.5	204.8	228.5	275.7
107.5°	55.4	48.3	41.2	48.3	55.4	57.2	102.5	163.0	193.2	226.2	292.0
110°	59.2	52.8	46.4	52.8	59.2	60.9	101.7	156.3	183.5	220.4	293.9

TEST NUMBER: P934198

CATALOG NUMBER: SQ4-FA-025U-125D-B35-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	63.8	57.7	51.6	57.7	63.8	65.3	101.7	150.4	174.7	212.4	287.7
115°	70.5	64.9	59.3	64.9	70.5	72.0	102.7	143.7	164.1	200.4	273.0
117.5°	77.2	72.1	67.0	72.1	77.2	78.5	104.7	139.4	156.9	189.6	255.0
120°	81.1	76.3	71.4	76.3	81.1	82.3	106.1	138.0	153.9	183.8	243.7
122.5°	85.5	80.6	75.8	80.6	85.5	86.7	108.3	137.2	151.6	178.6	232.5
125°	91.4	86.9	82.5	86.9	91.4	92.5	111.4	136.6	149.2	172.1	217.9
127.5°	96.9	92.4	87.9	92.4	96.9	98.1	114.4	136.2	147.2	166.9	206.2
130°	100.5	95.6	90.8	95.6	100.5	101.7	116.7	136.5	146.4	164.0	198.9
132.5°	103.6	98.7	93.9	98.7	103.6	104.7	118.4	136.6	145.7	161.4	192.7
135°	107.2	102.7	98.4	102.7	107.2	108.2	120.3	136.5	144.6	157.7	183.9
137.5°	111.6	107.3	102.9	107.3	111.6	112.7	123.3	137.3	144.4	155.4	177.6
140°	114.7	110.7	106.7	110.7	114.7	115.7	125.0	137.5	143.7	153.3	172.5
142.5°	117.0	113.3	109.6	113.3	117.0	117.9	126.6	138.0	143.7	152.1	169.0
145°	120.5	117.2	114.1	117.2	120.5	121.3	128.5	138.0	142.7	149.6	163.4
147.5°	124.8	121.6	118.5	121.6	124.8	125.6	131.3	139.0	142.7	148.2	159.0
150°	127.1	124.2	121.4	124.2	127.1	127.8	132.8	139.4	142.7	147.3	156.5
152.5°	128.7	126.6	124.4	126.6	128.7	129.3	133.7	139.7	142.7	146.6	154.5
155°	132.1	130.4	128.9	130.4	132.1	132.5	135.9	140.4	142.7	145.8	152.1
157.5°	135.3	133.7	132.2	133.7	135.3	135.7	138.0	141.2	142.7	145.2	150.0
160°	136.8	135.6	134.4	135.6	136.8	137.1	139.0	141.5	142.7	144.8	148.9
162.5°	138.5	137.5	136.6	137.5	138.5	138.7	140.0	141.9	142.7	144.5	148.0
165°	140.7	139.8	139.1	139.8	140.7	140.9	141.5	142.3	142.7	144.0	146.5
167.5°	142.1	141.7	141.3	141.7	142.1	142.2	142.6	143.3	143.7	144.5	146.1
170°	143.5	143.1	142.7	143.1	143.5	143.6	143.6	143.7	143.7	144.5	146.1
172.5°	143.7	143.6	143.5	143.6	143.7	143.7	143.7	143.7	143.7	144.4	145.6
175°	144.6	144.6	144.6	144.6	144.6	144.6	144.3	143.9	143.7	144.1	145.0
177.5°	144.6	144.6	144.6	144.6	144.6	144.6	144.4	144.1	143.9	144.2	144.9
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6

TEST NUMBER: P934198

CATALOG NUMBER: SQ4-FA-025U-125D-B35-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1672.7	1667.7	1674.3	1656.2	1674.3	1667.7	1672.7	1684.1	1674.3	1680.8	1687.4
5°	1467.6	1459.5	1433.2	1411.9	1433.2	1459.5	1467.6	1502.1	1518.5	1548.1	1587.4
7.5°	1311.9	1305.3	1298.8	1285.7	1298.8	1305.3	1311.9	1321.7	1338.1	1364.4	1393.9
10°	1277.4	1279.1	1289.0	1287.3	1289.0	1279.1	1277.4	1274.1	1269.3	1274.1	1292.2
12.5°	1366.0	1380.7	1434.9	1431.6	1434.9	1380.7	1366.0	1300.4	1256.1	1248.0	1251.2
15°	1467.6	1472.6	1484.1	1485.7	1484.1	1472.6	1467.6	1441.5	1308.6	1251.2	1233.1
17.5°	1477.5	1479.2	1487.3	1487.3	1487.3	1479.2	1477.5	1466.0	1421.7	1344.7	1243.0
20°	1469.3	1472.6	1489.0	1492.3	1489.0	1472.6	1469.3	1454.6	1430.0	1402.0	1325.0
22.5°	1466.0	1472.6	1485.7	1484.1	1485.7	1472.6	1466.0	1443.0	1421.7	1402.0	1370.9
25°	1449.6	1449.6	1451.3	1452.9	1451.3	1449.6	1449.6	1431.6	1389.0	1384.0	1366.0
27.5°	1415.2	1418.5	1428.3	1426.7	1428.3	1418.5	1415.2	1408.6	1362.7	1357.8	1344.7
30°	1384.0	1380.7	1372.6	1366.0	1372.6	1380.7	1384.0	1374.2	1328.3	1315.1	1318.4
32.5°	1331.6	1323.4	1315.1	1310.3	1315.1	1323.4	1331.6	1328.3	1293.8	1275.8	1279.1
35°	1269.3	1270.8	1269.3	1264.4	1269.3	1270.8	1269.3	1272.5	1251.2	1234.8	1233.1
37.5°	1225.0	1228.2	1226.7	1220.1	1226.7	1228.2	1225.0	1221.7	1192.2	1187.2	1190.5
40°	1179.1	1180.7	1179.1	1174.1	1179.1	1180.7	1179.1	1172.5	1131.5	1133.1	1144.6
42.5°	1134.8	1133.1	1128.2	1124.9	1128.2	1133.1	1134.8	1124.9	1072.5	1067.5	1088.9
45°	1083.9	1085.6	1075.8	1070.8	1075.8	1085.6	1083.9	1077.4	1023.3	1010.2	1024.9
47.5°	1033.1	1033.1	1024.9	1020.0	1024.9	1033.1	1033.1	1024.9	967.5	954.4	962.6
50°	979.0	977.3	965.9	964.3	965.9	977.3	979.0	974.0	913.4	901.9	901.9
52.5°	916.7	916.7	918.3	921.6	918.3	916.7	916.7	918.3	864.3	852.7	849.4
55°	862.6	864.3	875.7	879.0	875.7	864.3	862.6	862.6	813.4	801.8	795.4
57.5°	806.8	806.8	815.0	815.0	815.0	806.8	806.8	803.5	756.0	746.1	742.8
60°	742.8	746.1	752.7	751.1	752.7	746.1	742.8	739.5	698.6	692.1	680.5
62.5°	675.6	678.9	680.5	677.2	680.5	678.9	675.6	665.8	641.2	636.2	621.5
65°	605.1	608.4	610.0	606.8	610.0	608.4	605.1	600.2	582.2	573.9	560.9
67.5°	532.9	531.3	529.7	536.2	529.7	531.3	532.9	526.4	514.9	508.3	490.3
70°	459.1	459.1	457.6	460.8	457.6	459.1	459.1	454.3	447.7	442.7	426.4
72.5°	380.4	378.8	385.4	380.4	385.4	378.8	380.4	378.8	375.5	370.6	354.2
75°	303.4	306.7	303.4	308.3	303.4	306.7	303.4	305.0	303.4	300.1	288.6
77.5°	231.2	234.5	231.2	231.2	231.2	234.5	231.2	232.9	232.9	232.9	223.1
80°	164.0	162.3	162.3	160.7	162.3	162.3	164.0	164.0	165.6	162.3	159.1
82.5°	104.9	103.3	103.3	106.6	103.3	103.3	104.9	106.6	103.3	103.3	103.3
85°	57.4	59.0	55.7	55.7	55.7	59.0	57.4	54.1	57.4	57.4	55.7
87.5°	21.3	19.7	19.7	19.7	19.7	19.7	21.3	23.0	23.0	23.0	24.6
90°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9	6.6	7.4	6.3
92.5°	18.4	17.6	14.7	11.8	14.7	17.6	18.4	26.2	36.4	41.6	36.5
95°	62.6	60.4	51.6	42.6	51.6	60.4	62.6	82.2	108.3	121.4	102.5
97.5°	144.5	140.2	123.4	106.5	123.4	140.2	144.5	156.9	173.5	181.7	150.2
100°	202.9	197.9	177.8	157.7	177.8	197.9	202.9	202.0	200.8	200.2	165.3
102.5°	252.8	248.5	231.2	214.0	231.2	248.5	252.8	237.0	216.0	205.4	170.1
105°	311.0	308.7	299.5	290.2	299.5	308.7	311.0	275.7	228.5	204.8	170.5
107.5°	341.4	342.0	344.2	346.4	344.2	342.0	341.4	292.0	226.2	193.2	163.0
110°	349.1	351.6	361.1	370.8	361.1	351.6	349.1	293.9	220.4	183.5	156.3

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	344.2	347.9	362.7	377.5	362.7	347.9	344.2	287.7	212.4	174.7	150.4
115°	327.3	332.5	353.1	373.6	353.1	332.5	327.3	273.0	200.4	164.1	143.7
117.5°	304.2	309.9	332.7	355.5	332.7	309.9	304.2	255.0	189.6	156.9	139.4
120°	288.6	294.1	316.3	338.4	316.3	294.1	288.6	243.7	183.8	153.9	138.0
122.5°	272.9	278.3	300.2	322.1	300.2	278.3	272.9	232.5	178.6	151.6	137.2
125°	252.2	257.3	277.4	297.6	277.4	257.3	252.2	217.9	172.1	149.2	136.6
127.5°	235.7	239.9	256.9	273.8	256.9	239.9	235.7	206.2	166.9	147.2	136.2
130°	225.2	229.1	244.8	260.5	244.8	229.1	225.2	198.9	164.0	146.4	136.5
132.5°	216.3	219.8	233.8	247.9	233.8	219.8	216.3	192.7	161.4	145.7	136.6
135°	203.6	206.6	218.8	230.9	218.8	206.6	203.6	183.9	157.7	144.6	136.5
137.5°	194.3	196.8	206.7	216.7	206.7	196.8	194.3	177.6	155.4	144.4	137.3
140°	186.8	189.1	198.4	207.7	198.4	189.1	186.8	172.5	153.3	143.7	137.5
142.5°	181.6	183.6	191.6	199.5	191.6	183.6	181.6	169.0	152.1	143.7	138.0
145°	173.7	175.3	181.3	187.3	181.3	175.3	173.7	163.4	149.6	142.7	138.0
147.5°	167.2	168.4	173.4	178.4	173.4	168.4	167.2	159.0	148.2	142.7	139.0
150°	163.4	164.3	168.4	172.5	168.4	164.3	163.4	156.5	147.3	142.7	139.4
152.5°	160.4	161.1	164.1	167.2	164.1	161.1	160.4	154.5	146.6	142.7	139.7
155°	156.8	157.3	159.3	161.3	159.3	157.3	156.8	152.1	145.8	142.7	140.4
157.5°	153.6	154.0	155.4	156.9	155.4	154.0	153.6	150.0	145.2	142.7	141.2
160°	152.0	152.2	153.1	153.9	153.1	152.2	152.0	148.9	144.8	142.7	141.5
162.5°	150.6	150.8	151.6	152.3	151.6	150.8	150.6	148.0	144.5	142.7	141.9
165°	148.4	148.5	149.4	150.2	149.4	148.5	148.4	146.5	144.0	142.7	142.3
167.5°	147.4	147.5	147.8	148.2	147.8	147.5	147.4	146.1	144.5	143.7	143.3
170°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	146.1	144.5	143.7	143.7
172.5°	146.6	146.5	146.2	145.9	146.2	146.5	146.6	145.6	144.4	143.7	143.7
175°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.0	144.1	143.7	143.9
177.5°	145.4	145.3	145.0	144.6	145.0	145.3	145.4	144.9	144.2	143.9	144.1
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1712.0	1720.2	1725.1	1731.7	1748.1
5°	1646.4	1677.5	1687.4	1712.0	1741.5
7.5°	1502.1	1597.2	1623.5	1682.5	1728.4
10°	1362.7	1457.9	1503.8	1643.1	1712.0
12.5°	1292.2	1348.0	1379.1	1574.2	1689.1
15°	1248.0	1287.3	1310.3	1482.5	1662.8
17.5°	1213.5	1241.4	1257.8	1392.3	1626.8
20°	1192.2	1205.3	1220.1	1326.7	1585.8
22.5°	1177.4	1169.2	1180.7	1280.7	1530.0
25°	1167.5	1136.4	1149.5	1244.7	1464.4
27.5°	1175.8	1106.9	1111.8	1211.8	1395.6
30°	1177.4	1070.8	1072.5	1177.4	1318.4
32.5°	1165.9	1033.1	1034.8	1134.8	1231.5
35°	1138.1	988.9	987.2	1085.6	1113.5
37.5°	1100.3	941.3	941.3	1031.5	983.9
40°	1054.5	893.7	898.7	961.0	869.1
42.5°	998.7	842.9	849.4	867.4	783.8
45°	938.0	793.7	798.6	733.0	718.2
47.5°	870.7	742.8	744.5	608.4	696.9
50°	790.4	690.4	683.8	521.5	695.3
52.5°	719.9	633.0	613.3	472.3	631.3
55°	651.1	572.3	529.7	434.6	585.5
57.5°	590.3	493.6	452.6	390.3	575.6
60°	534.6	416.5	385.4	342.7	528.0
62.5°	488.7	359.1	352.5	309.9	478.9
65°	439.4	319.8	318.1	282.1	406.7
67.5°	392.0	293.5	291.9	255.8	309.9
70°	341.1	265.7	262.4	227.9	229.6
72.5°	288.6	234.5	231.2	204.9	190.2
75°	236.1	198.5	196.8	178.8	154.2
77.5°	185.3	157.5	160.7	144.3	113.2
80°	132.8	114.8	118.0	103.3	85.3
82.5°	88.6	75.4	78.7	65.6	57.4
85°	49.2	42.6	44.3	34.4	26.3
87.5°	23.0	19.7	19.7	13.1	8.2
90°	4.3	2.7	2.5	1.7	1.0
92.5°	26.4	18.7	17.1	10.5	3.9
95°	64.8	36.5	33.5	21.4	9.3
97.5°	87.3	40.1	37.4	26.7	16.1
100°	95.4	43.1	40.7	31.0	21.3
102.5°	99.2	46.1	43.9	34.8	25.8
105°	102.0	50.6	48.6	41.1	33.4
107.5°	102.5	57.2	55.4	48.3	41.2
110°	101.7	60.9	59.2	52.8	46.4

TEST NUMBER: P934198

CATALOG NUMBER: SQ4-FA-025U-125D-B35-1D-UNV-W2A-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	101.7	65.3	63.8	57.7	51.6
115°	102.7	72.0	70.5	64.9	59.3
117.5°	104.7	78.5	77.2	72.1	67.0
120°	106.1	82.3	81.1	76.3	71.4
122.5°	108.3	86.7	85.5	80.6	75.8
125°	111.4	92.5	91.4	86.9	82.5
127.5°	114.4	98.1	96.9	92.4	87.9
130°	116.7	101.7	100.5	95.6	90.8
132.5°	118.4	104.7	103.6	98.7	93.9
135°	120.3	108.2	107.2	102.7	98.4
137.5°	123.3	112.7	111.6	107.3	102.9
140°	125.0	115.7	114.7	110.7	106.7
142.5°	126.6	117.9	117.0	113.3	109.6
145°	128.5	121.3	120.5	117.2	114.1
147.5°	131.3	125.6	124.8	121.6	118.5
150°	132.8	127.8	127.1	124.2	121.4
152.5°	133.7	129.3	128.7	126.6	124.4
155°	135.9	132.5	132.1	130.4	128.9
157.5°	138.0	135.7	135.3	133.7	132.2
160°	139.0	137.1	136.8	135.6	134.4
162.5°	140.0	138.7	138.5	137.5	136.6
165°	141.5	140.9	140.7	139.8	139.1
167.5°	142.6	142.2	142.1	141.7	141.3
170°	143.6	143.6	143.5	143.1	142.7
172.5°	143.7	143.7	143.7	143.6	143.5
175°	144.3	144.6	144.6	144.6	144.6
177.5°	144.4	144.6	144.6	144.6	144.6
180°	144.6	144.6	144.6	144.6	144.6

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