

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: P934305

Luminaire Tested: SQ4-FA-050U-050D-B50-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934305
REPORT IS A COMBINATION OF REPORTS P933689 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-B50-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

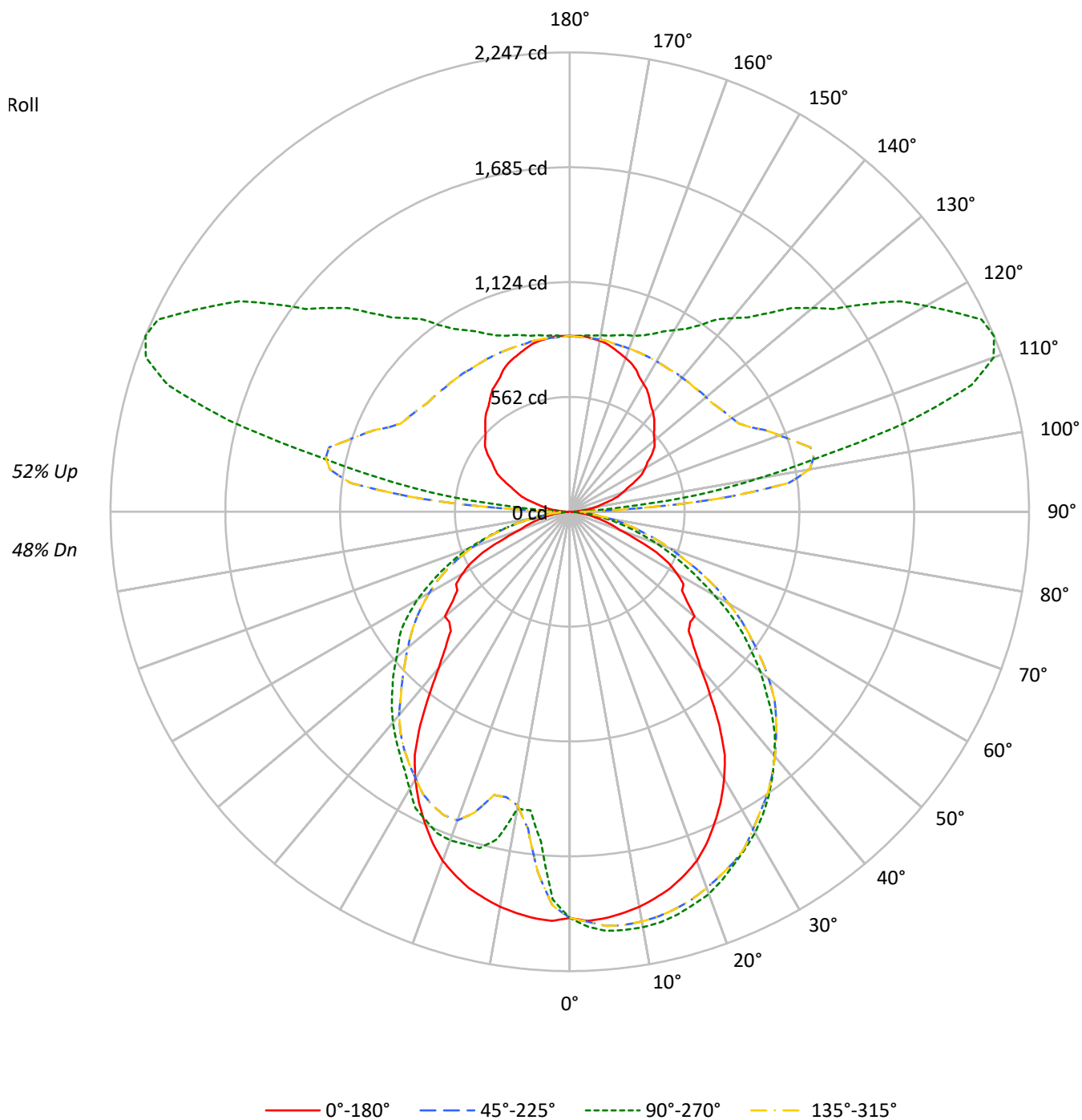
Lumens per Lamp: N/A
Luminaire Lumens: 10731.6 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 85.2
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6143	6143	6143	6143
5°	6192	6202	6192	4877
10°	6153	6109	6153	4368
15°	6088	5977	6088	4991
20°	5963	5820	5963	5001
25°	5705	5591	5705	4895
30°	5370	5401	5370	4663
35°	4790	5161	4790	4407
40°	3993	4878	3993	4214
45°	3570	4548	3570	3991
50°	3796	4153	3796	3768
55°	3575	3728	3575	3639
60°	3690	3166	3690	3333
65°	3351	2617	3351	2925
70°	2326	2086	2326	2452
75°	2047	1542	2047	1846
80°	1662	1019	1662	1110
85°	975	540	975	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 5469 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	1.7
10°-20°	509.1	4.7
20°-30°	786.9	7.3
30°-40°	939.4	8.8
40°-50°	944.9	8.8
50°-60°	822.2	7.7
60°-70°	583.0	5.4
70°-80°	308.4	2.9
80°-90°	80.1	0.7
90°-100°	419.4	3.9
100°-110°	1102.8	10.3
110°-120°	1143.4	10.7
120°-130°	917.2	8.5
130°-140°	719.7	6.7
140°-150°	552.4	5.1
150°-160°	397.8	3.7
160°-170°	243.4	2.3
170°-180°	82.2	0.8
0°-30°	1475.3	13.7
0°-40°	2414.7	22.5
0°-60°	4181.9	39.0
0°-90°	5153.4	48.0
90°-120°	2665.6	24.8
90°-150°	4854.8	45.2
90°-180°	5578.0	52.0
0°-180°	10731.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1986	1986	1986	1986	1986	
5°	1996	2058	1996	1618	1996	189
15°	1906	2039	1906	1702	1906	536
25°	1678	1902	1678	1665	1678	771
35°	1276	1697	1276	1449	1276	789
45°	823	1398	823	1227	823	659
55°	671	1032	671	1007	671	616
65°	466	622	466	695	466	445
75°	177	295	177	353	177	186
85°	30	75	30	64	30	41
90°	6	22	6	22	6	6
95°	56	254	56	254	56	62
105°	199	1727	199	1727	199	211
115°	353	2224	353	2224	353	348
125°	491	1771	491	1771	491	436
135°	585	1374	585	1374	585	453
145°	679	1115	679	1115	679	425
155°	767	960	767	960	767	352
165°	828	894	828	894	828	234
175°	860	866	860	866	860	82
180°	860	860	860	860	860	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2
2.5°	2003.1	2003.1	2014.5	2018.2	2018.2	2012.6	2007.0	2012.6	2029.5	2035.1	2033.2
5°	1995.7	2010.7	2031.4	2035.1	2038.9	2037.1	2033.2	2037.1	2055.8	2059.6	2061.4
7.5°	1980.6	2008.8	2035.1	2040.8	2046.4	2040.8	2038.9	2042.7	2061.4	2065.2	2065.2
10°	1961.9	2001.3	2031.4	2035.1	2040.8	2035.1	2035.1	2042.7	2061.4	2065.2	2067.1
12.5°	1935.5	1990.1	2018.2	2022.0	2029.5	2027.6	2025.8	2033.2	2052.1	2055.8	2055.8
15°	1905.5	1969.3	1995.7	1999.4	2012.6	2008.8	2008.8	2016.3	2037.1	2042.7	2040.8
17.5°	1864.2	1943.1	1973.2	1978.8	1988.2	1986.2	1988.2	1995.7	2014.5	2018.2	2020.1
20°	1817.2	1907.3	1943.1	1948.7	1958.1	1958.1	1958.1	1967.5	1986.2	1993.8	1993.8
22.5°	1753.3	1869.8	1907.3	1911.2	1922.4	1922.4	1926.2	1939.3	1956.2	1958.1	1958.1
25°	1678.1	1828.4	1860.3	1871.6	1882.9	1888.5	1894.2	1901.7	1907.3	1905.5	1907.3
27.5°	1599.2	1775.8	1817.2	1824.7	1839.7	1845.3	1852.9	1854.7	1856.6	1862.2	1858.5
30°	1510.8	1702.5	1764.5	1772.1	1796.5	1800.3	1792.7	1796.5	1805.9	1809.6	1813.4
32.5°	1411.3	1593.5	1710.1	1727.0	1749.5	1738.3	1736.3	1742.0	1757.0	1757.0	1760.8
35°	1275.9	1509.0	1659.3	1674.4	1691.3	1678.1	1685.6	1687.5	1696.9	1702.5	1700.6
37.5°	1127.5	1435.7	1606.7	1618.0	1631.1	1614.2	1625.4	1631.1	1638.6	1634.9	1634.9
40°	995.9	1321.0	1544.6	1552.2	1563.4	1550.3	1561.6	1565.4	1569.1	1565.4	1563.4
42.5°	898.2	1195.1	1478.9	1488.3	1480.8	1490.2	1493.9	1501.5	1495.8	1488.3	1488.3
45°	823.0	1161.3	1407.5	1418.7	1407.5	1422.6	1428.2	1428.2	1411.3	1407.5	1405.6
47.5°	798.7	1093.7	1336.1	1336.1	1330.5	1349.3	1358.6	1345.5	1328.6	1322.9	1322.9
50°	796.8	1018.5	1238.4	1230.8	1257.2	1279.7	1270.3	1257.2	1244.0	1223.4	1223.4
52.5°	723.5	926.4	1112.5	1140.7	1182.0	1195.1	1180.1	1166.9	1144.4	1135.0	1127.5
55°	670.9	830.6	997.8	1054.2	1097.4	1114.4	1086.1	1073.0	1039.2	1033.6	1029.8
57.5°	659.6	691.5	892.6	964.0	1016.7	1014.8	997.8	973.4	945.2	939.6	937.7
60°	605.1	499.9	779.9	864.4	918.9	913.3	898.2	875.7	849.4	845.6	841.9
62.5°	548.7	362.7	652.0	747.9	824.9	823.0	810.0	776.1	757.3	747.9	740.4
65°	466.1	304.4	464.2	622.0	732.9	736.6	708.4	684.1	663.3	652.0	650.2
67.5°	355.2	248.1	313.8	518.7	644.6	640.8	605.1	593.8	567.5	561.9	550.6
70°	263.1	165.4	218.0	421.0	558.2	548.7	520.5	507.3	483.0	469.8	462.2
72.5°	218.0	133.4	159.7	327.0	469.8	458.5	434.1	419.1	398.4	387.1	379.6
75°	176.6	140.9	122.2	242.4	381.4	374.0	351.4	336.3	319.4	304.4	306.3
77.5°	129.6	131.5	97.7	178.5	302.5	291.3	278.1	259.4	251.8	236.8	236.8
80°	97.7	103.4	73.3	122.2	218.0	218.0	206.7	193.5	180.4	172.9	172.9
82.5°	65.8	65.8	54.5	77.1	148.4	142.8	135.3	131.5	124.0	120.3	120.3
85°	30.1	37.5	33.8	47.0	80.8	84.5	84.5	80.8	78.9	75.2	77.1
87.5°	9.4	16.9	20.6	26.3	41.4	43.2	45.1	45.1	45.1	47.0	47.0
90°	5.8	10.4	15.0	16.2	25.4	37.7	43.9	39.0	29.2	21.9	21.9
92.5°	23.1	62.3	101.6	111.4	156.6	217.0	247.1	216.6	155.5	109.7	105.4
95°	55.5	127.3	199.2	217.2	385.6	610.2	722.4	644.6	489.1	372.5	359.2
97.5°	95.8	159.2	222.7	238.5	519.4	893.8	1081.1	1032.0	933.6	859.9	834.8
100°	127.0	184.6	242.0	256.4	568.1	983.6	1191.4	1195.0	1202.2	1207.6	1177.6
102.5°	153.6	207.3	260.9	274.3	590.4	1011.9	1222.6	1285.2	1410.4	1504.4	1478.7
105°	198.7	244.1	289.4	300.8	606.9	1015.1	1219.2	1359.5	1640.3	1850.9	1837.1
107.5°	244.9	287.2	329.6	340.2	610.1	970.0	1149.8	1345.7	1737.4	2031.2	2034.5
110°	276.1	314.3	352.6	362.1	605.4	929.9	1092.1	1311.1	1748.9	2077.3	2091.7

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	306.6	343.1	379.5	388.6	605.6	894.9	1039.5	1263.6	1711.7	2047.9	2069.9
115°	352.9	386.5	420.1	428.5	611.2	854.8	976.6	1192.4	1624.1	1948.0	1978.6
117.5°	398.4	429.0	459.5	467.2	622.5	829.7	933.3	1128.1	1517.7	1809.9	1843.8
120°	425.1	453.8	482.5	489.7	631.8	821.3	916.0	1094.0	1449.9	1717.0	1749.9
122.5°	451.0	480.1	509.0	516.3	645.1	816.8	902.6	1062.9	1383.5	1623.9	1656.4
125°	490.9	517.3	543.8	550.4	663.0	813.1	888.2	1024.4	1296.7	1500.9	1530.9
127.5°	523.2	549.9	576.7	583.3	680.9	811.0	876.1	993.0	1226.8	1402.2	1427.5
130°	540.6	569.4	598.0	605.2	694.0	812.3	871.5	975.6	1183.8	1339.8	1363.2
132.5°	558.4	587.2	616.0	623.2	704.6	813.1	867.4	960.6	1147.0	1286.7	1307.6
135°	585.1	611.2	637.4	643.9	716.1	812.4	860.5	938.6	1094.6	1211.7	1229.7
137.5°	612.1	638.1	664.1	670.5	733.5	817.4	859.4	925.3	1057.3	1156.2	1171.0
140°	634.7	658.6	682.4	688.4	744.0	818.2	855.3	912.2	1026.3	1111.7	1125.6
142.5°	652.0	674.1	696.2	701.7	752.9	821.2	855.3	905.3	1005.5	1080.5	1092.4
145°	678.6	697.8	717.0	721.9	764.5	821.2	849.6	890.5	972.4	1033.8	1042.7
147.5°	705.2	723.8	742.6	747.3	781.4	826.9	849.6	881.8	946.2	994.5	1002.0
150°	722.4	739.4	756.4	760.6	790.3	829.8	849.6	876.7	931.1	971.9	978.0
152.5°	740.4	753.2	766.1	769.2	796.0	831.7	849.6	872.8	919.2	954.1	958.7
155°	766.9	776.4	786.0	788.3	808.8	835.9	849.6	868.1	905.0	932.7	935.7
157.5°	786.6	795.9	805.0	807.3	821.5	840.2	849.6	864.0	892.6	914.2	916.3
160°	799.9	807.1	814.3	816.0	827.2	842.1	849.6	861.9	886.5	905.0	906.2
162.5°	813.1	818.6	824.0	825.3	833.4	844.1	849.6	859.9	880.7	896.3	897.4
165°	827.6	832.5	837.3	838.5	842.2	847.1	849.6	857.0	871.9	883.0	884.2
167.5°	840.9	843.1	845.5	846.0	849.1	853.2	855.3	860.1	869.9	877.2	877.8
170°	849.6	851.8	854.1	854.7	854.9	855.2	855.3	860.1	869.9	877.2	877.2
172.5°	854.1	854.6	855.2	855.3	855.3	855.3	855.3	859.1	866.8	872.6	872.2
175°	860.5	860.5	860.5	860.5	858.7	856.4	855.3	857.7	862.6	866.3	866.3
177.5°	860.5	860.5	860.5	860.5	859.2	857.4	856.5	858.4	862.3	865.2	864.6
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2
2.5°	2037.1	2031.4	2037.1	2033.2	2035.1	2029.5	2012.6	2007.0	2012.6	2018.2	2018.2
5°	2061.4	2057.7	2061.4	2061.4	2059.6	2055.8	2037.1	2033.2	2037.1	2038.9	2035.1
7.5°	2069.0	2063.3	2069.0	2065.2	2065.2	2061.4	2042.7	2038.9	2040.8	2046.4	2040.8
10°	2069.0	2063.3	2069.0	2067.1	2065.2	2061.4	2042.7	2035.1	2035.1	2040.8	2035.1
12.5°	2059.6	2055.8	2059.6	2055.8	2055.8	2052.1	2033.2	2025.8	2027.6	2029.5	2022.0
15°	2044.5	2038.9	2044.5	2040.8	2042.7	2037.1	2016.3	2008.8	2008.8	2012.6	1999.4
17.5°	2022.0	2014.5	2022.0	2020.1	2018.2	2014.5	1995.7	1988.2	1986.2	1988.2	1978.8
20°	1995.7	1990.1	1995.7	1993.8	1993.8	1986.2	1967.5	1958.1	1958.1	1958.1	1948.7
22.5°	1954.3	1948.7	1954.3	1958.1	1958.1	1956.2	1939.3	1926.2	1922.4	1922.4	1911.2
25°	1907.3	1901.7	1907.3	1907.3	1905.5	1907.3	1901.7	1894.2	1888.5	1882.9	1871.6
27.5°	1862.2	1858.5	1862.2	1858.5	1862.2	1856.6	1854.7	1852.9	1845.3	1839.7	1824.7
30°	1817.2	1813.4	1817.2	1813.4	1809.6	1805.9	1796.5	1792.7	1800.3	1796.5	1772.1
32.5°	1760.8	1757.0	1760.8	1760.8	1757.0	1757.0	1742.0	1736.3	1738.3	1749.5	1727.0
35°	1702.5	1696.9	1702.5	1700.6	1702.5	1696.9	1687.5	1685.6	1678.1	1691.3	1674.4
37.5°	1634.9	1629.3	1634.9	1634.9	1634.9	1638.6	1631.1	1625.4	1614.2	1631.1	1618.0
40°	1565.4	1557.8	1565.4	1563.4	1565.4	1569.1	1565.4	1561.6	1550.3	1563.4	1552.2
42.5°	1486.5	1484.5	1486.5	1488.3	1488.3	1495.8	1501.5	1493.9	1490.2	1480.8	1488.3
45°	1401.8	1398.1	1401.8	1405.6	1407.5	1411.3	1428.2	1428.2	1422.6	1407.5	1418.7
47.5°	1311.6	1302.3	1311.6	1322.9	1322.9	1328.6	1345.5	1358.6	1349.3	1330.5	1336.1
50°	1215.8	1217.7	1215.8	1223.4	1223.4	1244.0	1257.2	1270.3	1279.7	1257.2	1230.8
52.5°	1121.8	1120.0	1121.8	1127.5	1135.0	1144.4	1166.9	1180.1	1195.1	1182.0	1140.7
55°	1027.9	1031.7	1027.9	1029.8	1033.6	1039.2	1073.0	1086.1	1114.4	1097.4	1054.2
57.5°	933.9	928.3	933.9	937.7	939.6	945.2	973.4	997.8	1014.8	1016.7	964.0
60°	824.9	817.4	824.9	841.9	845.6	849.4	875.7	898.2	913.3	918.9	864.4
62.5°	729.1	716.0	729.1	740.4	747.9	757.3	776.1	810.0	823.0	824.9	747.9
65°	627.6	622.0	627.6	650.2	652.0	663.3	684.1	708.4	736.6	732.9	622.0
67.5°	535.6	535.6	535.6	550.6	561.9	567.5	593.8	605.1	640.8	644.6	518.7
70°	451.0	449.2	451.0	462.2	469.8	483.0	507.3	520.5	548.7	558.2	421.0
72.5°	370.2	368.3	370.2	379.6	387.1	398.4	419.1	434.1	458.5	469.8	327.0
75°	298.8	295.1	298.8	306.3	304.4	319.4	336.3	351.4	374.0	381.4	242.4
77.5°	229.3	229.3	229.3	236.8	236.8	251.8	259.4	278.1	291.3	302.5	178.5
80°	171.0	169.1	171.0	172.9	172.9	180.4	193.5	206.7	218.0	218.0	122.2
82.5°	120.3	116.5	120.3	120.3	120.3	124.0	131.5	135.3	142.8	148.4	77.1
85°	75.2	75.2	75.2	77.1	75.2	78.9	80.8	84.5	84.5	80.8	47.0
87.5°	48.8	47.0	48.8	47.0	47.0	45.1	45.1	45.1	43.2	41.4	26.3
90°	21.9	21.9	21.9	21.9	21.9	29.2	39.0	43.9	37.7	25.4	16.2
92.5°	87.9	70.4	87.9	105.4	109.7	155.5	216.6	247.1	217.0	156.6	111.4
95°	306.4	253.5	306.4	359.2	372.5	489.1	644.6	722.4	610.2	385.6	217.2
97.5°	734.1	633.5	734.1	834.8	859.9	933.6	1032.0	1081.1	893.8	519.4	238.5
100°	1057.8	937.9	1057.8	1177.6	1207.6	1202.2	1195.0	1191.4	983.6	568.1	256.4
102.5°	1376.1	1273.4	1376.1	1478.7	1504.4	1410.4	1285.2	1222.6	1011.9	590.4	274.3
105°	1782.0	1726.8	1782.0	1837.1	1850.9	1640.3	1359.5	1219.2	1015.1	606.9	300.8
107.5°	2047.8	2061.2	2047.8	2034.5	2031.2	1737.4	1345.7	1149.8	970.0	610.1	340.2
110°	2149.1	2206.7	2149.1	2091.7	2077.3	1748.9	1311.1	1092.1	929.9	605.4	362.1



TEST NUMBER: P934305

CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2158.3	2246.6	2158.3	2069.9	2047.9	1711.7	1263.6	1039.5	894.9	605.6	388.6
115°	2101.0	2223.5	2101.0	1978.6	1948.0	1624.1	1192.4	976.6	854.8	611.2	428.5
117.5°	1979.6	2115.4	1979.6	1843.8	1809.9	1517.7	1128.1	933.3	829.7	622.5	467.2
120°	1881.9	2013.8	1881.9	1749.9	1717.0	1449.9	1094.0	916.0	821.3	631.8	489.7
122.5°	1786.6	1916.8	1786.6	1656.4	1623.9	1383.5	1062.9	902.6	816.8	645.1	516.3
125°	1650.8	1770.7	1650.8	1530.9	1500.9	1296.7	1024.4	888.2	813.1	663.0	550.4
127.5°	1528.6	1629.7	1528.6	1427.5	1402.2	1226.8	993.0	876.1	811.0	680.9	583.3
130°	1456.7	1550.1	1456.7	1363.2	1339.8	1183.8	975.6	871.5	812.3	694.0	605.2
132.5°	1391.3	1475.0	1391.3	1307.6	1286.7	1147.0	960.6	867.4	813.1	704.6	623.2
135°	1301.8	1373.9	1301.8	1229.7	1211.7	1094.6	938.6	860.5	812.4	716.1	643.9
137.5°	1230.0	1289.0	1230.0	1171.0	1156.2	1057.3	925.3	859.4	817.4	733.5	670.5
140°	1180.7	1235.9	1180.7	1125.6	1111.7	1026.3	912.2	855.3	818.2	744.0	688.4
142.5°	1139.9	1187.4	1139.9	1092.4	1080.5	1005.5	905.3	855.3	821.2	752.9	701.7
145°	1078.7	1114.6	1078.7	1042.7	1033.8	972.4	890.5	849.6	821.2	764.5	721.9
147.5°	1031.7	1061.5	1031.7	1002.0	994.5	946.2	881.8	849.6	826.9	781.4	747.3
150°	1002.1	1026.3	1002.1	978.0	971.9	931.1	876.7	849.6	829.8	790.3	760.6
152.5°	976.9	995.1	976.9	958.7	954.1	919.2	872.8	849.6	831.7	796.0	769.2
155°	947.8	959.9	947.8	935.7	932.7	905.0	868.1	849.6	835.9	808.8	788.3
157.5°	924.8	933.3	924.8	916.3	914.2	892.6	864.0	849.6	840.2	821.5	807.3
160°	911.1	916.0	911.1	906.2	905.0	886.5	861.9	849.6	842.1	827.2	816.0
162.5°	902.1	906.7	902.1	897.4	896.3	880.7	859.9	849.6	844.1	833.4	825.3
165°	889.2	894.0	889.2	884.2	883.0	871.9	857.0	849.6	847.1	842.2	838.5
167.5°	879.8	881.9	879.8	877.8	877.2	869.9	860.1	855.3	853.2	849.1	846.0
170°	877.2	877.2	877.2	877.2	877.2	869.9	860.1	855.3	855.2	854.9	854.7
172.5°	870.4	868.6	870.4	872.2	872.6	866.8	859.1	855.3	855.3	855.3	855.3
175°	866.3	866.3	866.3	866.3	866.3	862.6	857.7	855.3	856.4	858.7	860.5
177.5°	862.5	860.5	862.5	864.6	865.2	862.3	858.4	856.5	857.4	859.2	860.5
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5

TEST NUMBER: P934305

CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2
2.5°	2014.5	2003.1	2003.1	1984.4	1976.9	1971.2	1961.9	1933.7	1926.2	1918.6	1929.9
5°	2031.4	2010.7	1995.7	1961.9	1933.7	1922.4	1886.7	1819.1	1773.9	1740.1	1721.4
7.5°	2035.1	2008.8	1980.6	1928.1	1860.3	1830.3	1721.4	1597.3	1563.4	1533.4	1514.6
10°	2031.4	2001.3	1961.9	1882.9	1723.2	1670.6	1561.6	1480.8	1460.1	1454.5	1460.1
12.5°	2018.2	1990.1	1935.5	1804.0	1580.4	1544.6	1480.8	1433.8	1430.0	1439.5	1490.2
15°	1995.7	1969.3	1905.5	1698.8	1501.5	1475.2	1430.0	1413.1	1433.8	1499.5	1651.8
17.5°	1973.2	1943.1	1864.2	1595.5	1441.3	1422.6	1390.5	1424.4	1540.9	1629.3	1680.0
20°	1943.1	1907.3	1817.2	1520.3	1398.1	1381.2	1366.2	1518.4	1606.7	1638.6	1666.8
22.5°	1907.3	1869.8	1753.3	1467.6	1353.0	1339.8	1349.3	1571.0	1606.7	1629.3	1653.6
25°	1860.3	1828.4	1678.1	1426.3	1317.3	1302.3	1338.0	1565.4	1586.0	1591.6	1640.5
27.5°	1817.2	1775.8	1599.2	1388.7	1274.1	1268.5	1347.4	1540.9	1556.0	1561.6	1614.2
30°	1764.5	1702.5	1510.8	1349.3	1229.0	1227.1	1349.3	1510.8	1507.1	1522.1	1574.7
32.5°	1710.1	1593.5	1411.3	1300.4	1185.7	1183.8	1336.1	1465.7	1462.0	1482.6	1522.1
35°	1659.3	1509.0	1275.9	1244.0	1131.3	1133.1	1304.1	1413.1	1415.0	1433.8	1458.3
37.5°	1606.7	1435.7	1127.5	1182.0	1078.7	1078.7	1260.9	1364.3	1360.6	1366.2	1400.0
40°	1544.6	1321.0	995.9	1101.2	1029.8	1024.1	1208.3	1311.6	1298.5	1296.7	1343.6
42.5°	1478.9	1195.1	898.2	994.1	973.4	965.8	1144.4	1247.7	1223.4	1229.0	1289.1
45°	1407.5	1161.3	823.0	839.9	915.1	909.5	1074.8	1174.5	1157.6	1172.6	1234.7
47.5°	1336.1	1093.7	798.7	697.1	853.1	851.2	997.8	1103.1	1093.7	1108.8	1174.5
50°	1238.4	1018.5	796.8	597.6	783.6	791.1	905.8	1033.6	1033.6	1046.7	1116.2
52.5°	1112.5	926.4	723.5	541.2	702.8	725.3	824.9	973.4	977.2	990.3	1052.3
55°	997.8	830.6	670.9	498.0	607.0	655.9	746.0	911.4	918.9	932.0	988.5
57.5°	892.6	691.5	659.6	447.2	518.7	565.6	676.5	851.2	855.0	866.3	920.8
60°	779.9	499.9	605.1	392.7	441.6	477.3	612.6	779.9	793.0	800.5	847.5
62.5°	652.0	362.7	548.7	355.2	404.0	411.5	560.0	712.2	729.1	734.8	763.0
65°	464.2	304.4	466.1	323.3	364.5	366.4	503.6	642.7	657.7	667.1	687.8
67.5°	313.8	248.1	355.2	293.2	334.5	336.3	449.2	561.9	582.5	590.1	603.2
70°	218.0	165.4	263.1	261.2	300.7	304.4	390.9	488.6	507.3	513.0	520.5
72.5°	159.7	133.4	218.0	234.9	265.0	268.7	330.7	405.9	424.7	430.3	434.1
75°	122.2	140.9	176.6	204.8	225.5	227.3	270.6	330.7	343.9	347.6	349.5
77.5°	97.7	131.5	129.6	165.4	184.2	180.4	212.4	255.5	266.8	266.8	266.8
80°	73.3	103.4	97.7	118.4	135.3	131.5	152.2	182.3	186.1	189.8	187.9
82.5°	54.5	65.8	65.8	75.2	90.2	86.5	101.4	118.4	118.4	118.4	122.2
85°	33.8	37.5	30.1	39.5	50.7	48.8	56.4	63.9	65.8	65.8	62.0
87.5°	20.6	16.9	9.4	15.0	22.5	22.5	26.3	28.2	26.3	26.3	26.3
90°	15.0	10.4	5.8	10.4	15.0	16.2	25.4	37.7	43.9	39.0	29.2
92.5°	101.6	62.3	23.1	62.3	101.6	111.4	156.6	217.0	247.1	216.6	155.5
95°	199.2	127.3	55.5	127.3	199.2	217.2	385.6	610.2	722.4	644.6	489.1
97.5°	222.7	159.2	95.8	159.2	222.7	238.5	519.4	893.8	1081.1	1032.0	933.6
100°	242.0	184.6	127.0	184.6	242.0	256.4	568.1	983.6	1191.4	1195.0	1202.2
102.5°	260.9	207.3	153.6	207.3	260.9	274.3	590.4	1011.9	1222.6	1285.2	1410.4
105°	289.4	244.1	198.7	244.1	289.4	300.8	606.9	1015.1	1219.2	1359.5	1640.3
107.5°	329.6	287.2	244.9	287.2	329.6	340.2	610.1	970.0	1149.8	1345.7	1737.4
110°	352.6	314.3	276.1	314.3	352.6	362.1	605.4	929.9	1092.1	1311.1	1748.9

TEST NUMBER: P934305

CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	379.5	343.1	306.6	343.1	379.5	388.6	605.6	894.9	1039.5	1263.6	1711.7
115°	420.1	386.5	352.9	386.5	420.1	428.5	611.2	854.8	976.6	1192.4	1624.1
117.5°	459.5	429.0	398.4	429.0	459.5	467.2	622.5	829.7	933.3	1128.1	1517.7
120°	482.5	453.8	425.1	453.8	482.5	489.7	631.8	821.3	916.0	1094.0	1449.9
122.5°	509.0	480.1	451.0	480.1	509.0	516.3	645.1	816.8	902.6	1062.9	1383.5
125°	543.8	517.3	490.9	517.3	543.8	550.4	663.0	813.1	888.2	1024.4	1296.7
127.5°	576.7	549.9	523.2	549.9	576.7	583.3	680.9	811.0	876.1	993.0	1226.8
130°	598.0	569.4	540.6	569.4	598.0	605.2	694.0	812.3	871.5	975.6	1183.8
132.5°	616.0	587.2	558.4	587.2	616.0	623.2	704.6	813.1	867.4	960.6	1147.0
135°	637.4	611.2	585.1	611.2	637.4	643.9	716.1	812.4	860.5	938.6	1094.6
137.5°	664.1	638.1	612.1	638.1	664.1	670.5	733.5	817.4	859.4	925.3	1057.3
140°	682.4	658.6	634.7	658.6	682.4	688.4	744.0	818.2	855.3	912.2	1026.3
142.5°	696.2	674.1	652.0	674.1	696.2	701.7	752.9	821.2	855.3	905.3	1005.5
145°	717.0	697.8	678.6	697.8	717.0	721.9	764.5	821.2	849.6	890.5	972.4
147.5°	742.6	723.8	705.2	723.8	742.6	747.3	781.4	826.9	849.6	881.8	946.2
150°	756.4	739.4	722.4	739.4	756.4	760.6	790.3	829.8	849.6	876.7	931.1
152.5°	766.1	753.2	740.4	753.2	766.1	769.2	796.0	831.7	849.6	872.8	919.2
155°	786.0	776.4	766.9	776.4	786.0	788.3	808.8	835.9	849.6	868.1	905.0
157.5°	805.0	795.9	786.6	795.9	805.0	807.3	821.5	840.2	849.6	864.0	892.6
160°	814.3	807.1	799.9	807.1	814.3	816.0	827.2	842.1	849.6	861.9	886.5
162.5°	824.0	818.6	813.1	818.6	824.0	825.3	833.4	844.1	849.6	859.9	880.7
165°	837.3	832.5	827.6	832.5	837.3	838.5	842.2	847.1	849.6	857.0	871.9
167.5°	845.5	843.1	840.9	843.1	845.5	846.0	849.1	853.2	855.3	860.1	869.9
170°	854.1	851.8	849.6	851.8	854.1	854.7	854.9	855.2	855.3	860.1	869.9
172.5°	855.2	854.6	854.1	854.6	855.2	855.3	855.3	855.3	855.3	859.1	866.8
175°	860.5	860.5	860.5	860.5	860.5	860.5	858.7	856.4	855.3	857.7	862.6
177.5°	860.5	860.5	860.5	860.5	860.5	860.5	859.2	857.4	856.5	858.4	862.3
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5

TEST NUMBER: P934305

CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2
2.5°	1916.8	1911.2	1918.6	1898.0	1918.6	1911.2	1916.8	1929.9	1918.6	1926.2	1933.7
5°	1681.9	1672.4	1642.4	1618.0	1642.4	1672.4	1681.9	1721.4	1740.1	1773.9	1819.1
7.5°	1503.4	1495.8	1488.3	1473.3	1488.3	1495.8	1503.4	1514.6	1533.4	1563.4	1597.3
10°	1463.9	1465.7	1477.0	1475.2	1477.0	1465.7	1463.9	1460.1	1454.5	1460.1	1480.8
12.5°	1565.4	1582.3	1644.3	1640.5	1644.3	1582.3	1565.4	1490.2	1439.5	1430.0	1433.8
15°	1681.9	1687.5	1700.6	1702.5	1700.6	1687.5	1681.9	1651.8	1499.5	1433.8	1413.1
17.5°	1693.2	1695.0	1704.4	1704.4	1704.4	1695.0	1693.2	1680.0	1629.3	1540.9	1424.4
20°	1683.7	1687.5	1706.3	1710.1	1706.3	1687.5	1683.7	1666.8	1638.6	1606.7	1518.4
22.5°	1680.0	1687.5	1702.5	1700.6	1702.5	1687.5	1680.0	1653.6	1629.3	1606.7	1571.0
25°	1661.2	1661.2	1663.1	1664.9	1663.1	1661.2	1661.2	1640.5	1591.6	1586.0	1565.4
27.5°	1621.7	1625.4	1636.7	1634.9	1636.7	1625.4	1621.7	1614.2	1561.6	1556.0	1540.9
30°	1586.0	1582.3	1572.9	1565.4	1572.9	1582.3	1586.0	1574.7	1522.1	1507.1	1510.8
32.5°	1525.9	1516.4	1507.1	1501.5	1507.1	1516.4	1525.9	1522.1	1482.6	1462.0	1465.7
35°	1454.5	1456.4	1454.5	1448.8	1454.5	1456.4	1454.5	1458.3	1433.8	1415.0	1413.1
37.5°	1403.7	1407.5	1405.6	1398.1	1405.6	1407.5	1403.7	1400.0	1366.2	1360.6	1364.3
40°	1351.1	1353.0	1351.1	1345.5	1351.1	1353.0	1351.1	1343.6	1296.7	1298.5	1311.6
42.5°	1300.4	1298.5	1292.8	1289.1	1292.8	1298.5	1300.4	1289.1	1229.0	1223.4	1247.7
45°	1242.1	1244.0	1232.7	1227.1	1232.7	1244.0	1242.1	1234.7	1172.6	1157.6	1174.5
47.5°	1183.8	1183.8	1174.5	1168.8	1174.5	1183.8	1183.8	1174.5	1108.8	1093.7	1103.1
50°	1121.8	1120.0	1106.8	1104.9	1106.8	1120.0	1121.8	1116.2	1046.7	1033.6	1033.6
52.5°	1050.5	1050.5	1052.3	1056.1	1052.3	1050.5	1050.5	1052.3	990.3	977.2	973.4
55°	988.5	990.3	1003.5	1007.2	1003.5	990.3	988.5	988.5	932.0	918.9	911.4
57.5°	924.6	924.6	933.9	933.9	933.9	924.6	924.6	920.8	866.3	855.0	851.2
60°	851.2	855.0	862.5	860.7	862.5	855.0	851.2	847.5	800.5	793.0	779.9
62.5°	774.2	778.0	779.9	776.1	779.9	778.0	774.2	763.0	734.8	729.1	712.2
65°	693.4	697.1	699.0	695.3	699.0	697.1	693.4	687.8	667.1	657.7	642.7
67.5°	610.7	608.9	607.0	614.5	607.0	608.9	610.7	603.2	590.1	582.5	561.9
70°	526.1	526.1	524.3	528.1	524.3	526.1	526.1	520.5	513.0	507.3	488.6
72.5°	436.0	434.1	441.6	436.0	441.6	434.1	436.0	434.1	430.3	424.7	405.9
75°	347.6	351.4	347.6	353.2	347.6	351.4	347.6	349.5	347.6	343.9	330.7
77.5°	265.0	268.7	265.0	265.0	265.0	268.7	265.0	266.8	266.8	266.8	255.5
80°	187.9	186.1	186.1	184.2	186.1	186.1	187.9	187.9	189.8	186.1	182.3
82.5°	120.3	118.4	118.4	122.2	118.4	118.4	120.3	122.2	118.4	118.4	118.4
85°	65.8	67.6	63.9	63.9	63.9	67.6	65.8	62.0	65.8	65.8	63.9
87.5°	24.5	22.5	22.5	22.5	22.5	22.5	24.5	26.3	26.3	26.3	28.2
90°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	29.2	39.0	43.9	37.7
92.5°	109.7	105.4	87.9	70.4	87.9	105.4	109.7	155.5	216.6	247.1	217.0
95°	372.5	359.2	306.4	253.5	306.4	359.2	372.5	489.1	644.6	722.4	610.2
97.5°	859.9	834.8	734.1	633.5	734.1	834.8	859.9	933.6	1032.0	1081.1	893.8
100°	1207.6	1177.6	1057.8	937.9	1057.8	1177.6	1207.6	1202.2	1195.0	1191.4	983.6
102.5°	1504.4	1478.7	1376.1	1273.4	1376.1	1478.7	1504.4	1410.4	1285.2	1222.6	1011.9
105°	1850.9	1837.1	1782.0	1726.8	1782.0	1837.1	1850.9	1640.3	1359.5	1219.2	1015.1
107.5°	2031.2	2034.5	2047.8	2061.2	2047.8	2034.5	2031.2	1737.4	1345.7	1149.8	970.0
110°	2077.3	2091.7	2149.1	2206.7	2149.1	2091.7	2077.3	1748.9	1311.1	1092.1	929.9

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2047.9	2069.9	2158.3	2246.6	2158.3	2069.9	2047.9	1711.7	1263.6	1039.5	894.9
115°	1948.0	1978.6	2101.0	2223.5	2101.0	1978.6	1948.0	1624.1	1192.4	976.6	854.8
117.5°	1809.9	1843.8	1979.6	2115.4	1979.6	1843.8	1809.9	1517.7	1128.1	933.3	829.7
120°	1717.0	1749.9	1881.9	2013.8	1881.9	1749.9	1717.0	1449.9	1094.0	916.0	821.3
122.5°	1623.9	1656.4	1786.6	1916.8	1786.6	1656.4	1623.9	1383.5	1062.9	902.6	816.8
125°	1500.9	1530.9	1650.8	1770.7	1650.8	1530.9	1500.9	1296.7	1024.4	888.2	813.1
127.5°	1402.2	1427.5	1528.6	1629.7	1528.6	1427.5	1402.2	1226.8	993.0	876.1	811.0
130°	1339.8	1363.2	1456.7	1550.1	1456.7	1363.2	1339.8	1183.8	975.6	871.5	812.3
132.5°	1286.7	1307.6	1391.3	1475.0	1391.3	1307.6	1286.7	1147.0	960.6	867.4	813.1
135°	1211.7	1229.7	1301.8	1373.9	1301.8	1229.7	1211.7	1094.6	938.6	860.5	812.4
137.5°	1156.2	1171.0	1230.0	1289.0	1230.0	1171.0	1156.2	1057.3	925.3	859.4	817.4
140°	1111.7	1125.6	1180.7	1235.9	1180.7	1125.6	1111.7	1026.3	912.2	855.3	818.2
142.5°	1080.5	1092.4	1139.9	1187.4	1139.9	1092.4	1080.5	1005.5	905.3	855.3	821.2
145°	1033.8	1042.7	1078.7	1114.6	1078.7	1042.7	1033.8	972.4	890.5	849.6	821.2
147.5°	994.5	1002.0	1031.7	1061.5	1031.7	1002.0	994.5	946.2	881.8	849.6	826.9
150°	971.9	978.0	1002.1	1026.3	1002.1	978.0	971.9	931.1	876.7	849.6	829.8
152.5°	954.1	958.7	976.9	995.1	976.9	958.7	954.1	919.2	872.8	849.6	831.7
155°	932.7	935.7	947.8	959.9	947.8	935.7	932.7	905.0	868.1	849.6	835.9
157.5°	914.2	916.3	924.8	933.3	924.8	916.3	914.2	892.6	864.0	849.6	840.2
160°	905.0	906.2	911.1	916.0	911.1	906.2	905.0	886.5	861.9	849.6	842.1
162.5°	896.3	897.4	902.1	906.7	902.1	897.4	896.3	880.7	859.9	849.6	844.1
165°	883.0	884.2	889.2	894.0	889.2	884.2	883.0	871.9	857.0	849.6	847.1
167.5°	877.2	877.8	879.8	881.9	879.8	877.8	877.2	869.9	860.1	855.3	853.2
170°	877.2	877.2	877.2	877.2	877.2	877.2	877.2	869.9	860.1	855.3	855.2
172.5°	872.6	872.2	870.4	868.6	870.4	872.2	872.6	866.8	859.1	855.3	855.3
175°	866.3	866.3	866.3	866.3	866.3	866.3	866.3	862.6	857.7	855.3	856.4
177.5°	865.2	864.6	862.5	860.5	862.5	864.6	865.2	862.3	858.4	856.5	857.4
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1986.2	1986.2	1986.2	1986.2	1986.2
2.5°	1961.9	1971.2	1976.9	1984.4	2003.1
5°	1886.7	1922.4	1933.7	1961.9	1995.7
7.5°	1721.4	1830.3	1860.3	1928.1	1980.6
10°	1561.6	1670.6	1723.2	1882.9	1961.9
12.5°	1480.8	1544.6	1580.4	1804.0	1935.5
15°	1430.0	1475.2	1501.5	1698.8	1905.5
17.5°	1390.5	1422.6	1441.3	1595.5	1864.2
20°	1366.2	1381.2	1398.1	1520.3	1817.2
22.5°	1349.3	1339.8	1353.0	1467.6	1753.3
25°	1338.0	1302.3	1317.3	1426.3	1678.1
27.5°	1347.4	1268.5	1274.1	1388.7	1599.2
30°	1349.3	1227.1	1229.0	1349.3	1510.8
32.5°	1336.1	1183.8	1185.7	1300.4	1411.3
35°	1304.1	1133.1	1131.3	1244.0	1275.9
37.5°	1260.9	1078.7	1078.7	1182.0	1127.5
40°	1208.3	1024.1	1029.8	1101.2	995.9
42.5°	1144.4	965.8	973.4	994.1	898.2
45°	1074.8	909.5	915.1	839.9	823.0
47.5°	997.8	851.2	853.1	697.1	798.7
50°	905.8	791.1	783.6	597.6	796.8
52.5°	824.9	725.3	702.8	541.2	723.5
55°	746.0	655.9	607.0	498.0	670.9
57.5°	676.5	565.6	518.7	447.2	659.6
60°	612.6	477.3	441.6	392.7	605.1
62.5°	560.0	411.5	404.0	355.2	548.7
65°	503.6	366.4	364.5	323.3	466.1
67.5°	449.2	336.3	334.5	293.2	355.2
70°	390.9	304.4	300.7	261.2	263.1
72.5°	330.7	268.7	265.0	234.9	218.0
75°	270.6	227.3	225.5	204.8	176.6
77.5°	212.4	180.4	184.2	165.4	129.6
80°	152.2	131.5	135.3	118.4	97.7
82.5°	101.4	86.5	90.2	75.2	65.8
85°	56.4	48.8	50.7	39.5	30.1
87.5°	26.3	22.5	22.5	15.0	9.4
90°	25.4	16.2	15.0	10.4	5.8
92.5°	156.6	111.4	101.6	62.3	23.1
95°	385.6	217.2	199.2	127.3	55.5
97.5°	519.4	238.5	222.7	159.2	95.8
100°	568.1	256.4	242.0	184.6	127.0
102.5°	590.4	274.3	260.9	207.3	153.6
105°	606.9	300.8	289.4	244.1	198.7
107.5°	610.1	340.2	329.6	287.2	244.9
110°	605.4	362.1	352.6	314.3	276.1

TEST NUMBER: P934305

CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	605.6	388.6	379.5	343.1	306.6
115°	611.2	428.5	420.1	386.5	352.9
117.5°	622.5	467.2	459.5	429.0	398.4
120°	631.8	489.7	482.5	453.8	425.1
122.5°	645.1	516.3	509.0	480.1	451.0
125°	663.0	550.4	543.8	517.3	490.9
127.5°	680.9	583.3	576.7	549.9	523.2
130°	694.0	605.2	598.0	569.4	540.6
132.5°	704.6	623.2	616.0	587.2	558.4
135°	716.1	643.9	637.4	611.2	585.1
137.5°	733.5	670.5	664.1	638.1	612.1
140°	744.0	688.4	682.4	658.6	634.7
142.5°	752.9	701.7	696.2	674.1	652.0
145°	764.5	721.9	717.0	697.8	678.6
147.5°	781.4	747.3	742.6	723.8	705.2
150°	790.3	760.6	756.4	739.4	722.4
152.5°	796.0	769.2	766.1	753.2	740.4
155°	808.8	788.3	786.0	776.4	766.9
157.5°	821.5	807.3	805.0	795.9	786.6
160°	827.2	816.0	814.3	807.1	799.9
162.5°	833.4	825.3	824.0	818.6	813.1
165°	842.2	838.5	837.3	832.5	827.6
167.5°	849.1	846.0	845.5	843.1	840.9
170°	854.9	854.7	854.1	851.8	849.6
172.5°	855.3	855.3	855.2	854.6	854.1
175°	858.7	860.5	860.5	860.5	860.5
177.5°	859.2	860.5	860.5	860.5	860.5
180°	860.5	860.5	860.5	860.5	860.5

(END OF REPORT)