

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: P934404

Luminaire Tested: SQ4-FA-050U-075D-B40-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934404
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-B40-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

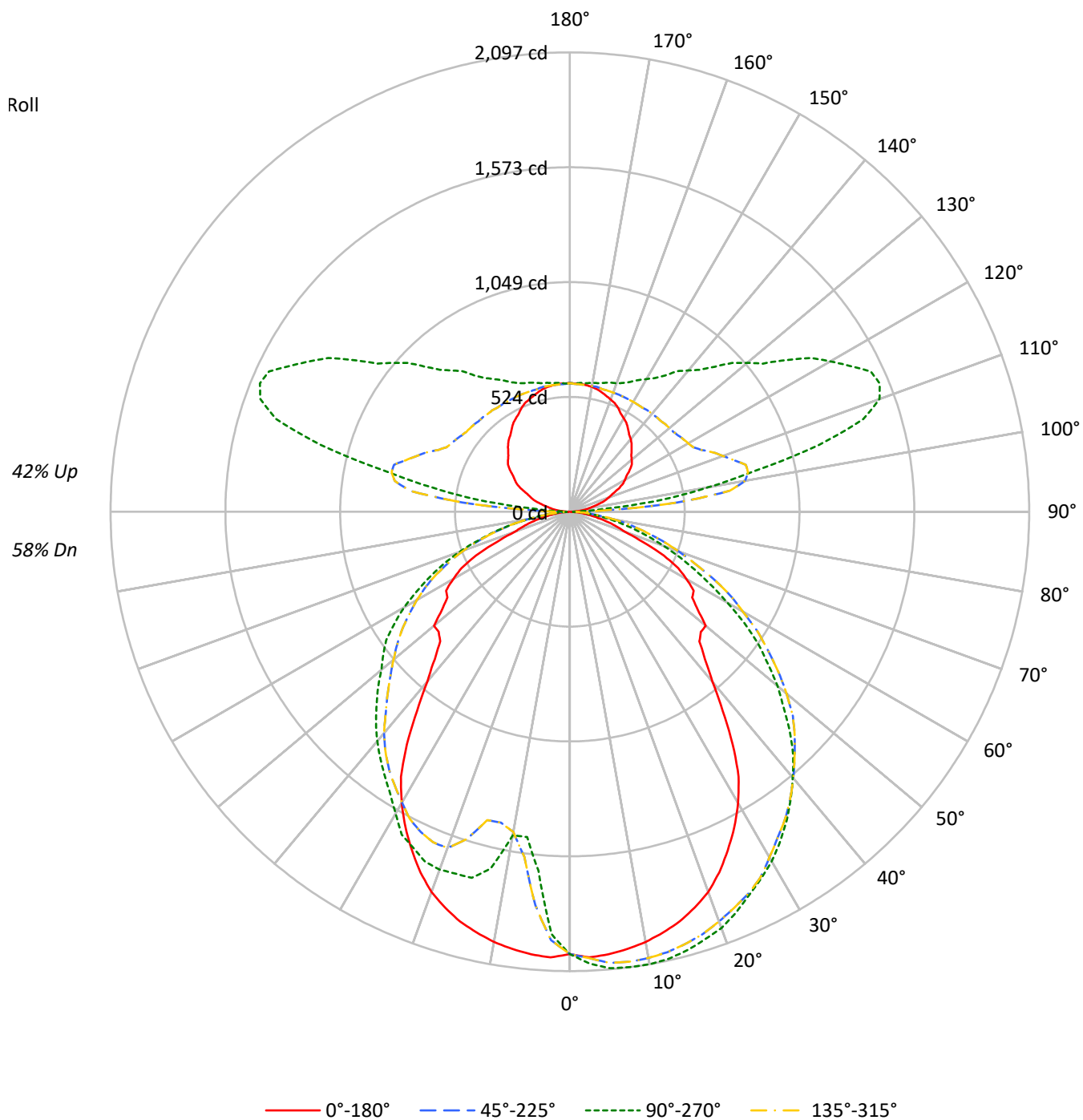
Lumens per Lamp: N/A
Luminaire Lumens: 9039.1 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 72.8
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9366	9366	9366	9366
5°	9436	9455	9436	7434
10°	9373	9314	9373	6659
15°	9271	9112	9271	7609
20°	9078	8873	9078	7624
25°	8680	8524	8680	7463
30°	8167	8235	8167	7108
35°	7281	7868	7281	6718
40°	6067	7437	6067	6424
45°	5422	6933	5422	6085
50°	5759	6331	5759	5745
55°	5419	5683	5419	5549
60°	5586	4827	5586	5082
65°	5065	3990	5065	4460
70°	3507	3180	3507	3739
75°	3074	2351	3074	2815
80°	2478	1554	2478	1692
85°	1425	823	1425	699

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 8309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	2.0
10°-20°	517.4	5.7
20°-30°	799.8	8.8
30°-40°	954.8	10.6
40°-50°	960.4	10.6
50°-60°	835.7	9.2
60°-70°	592.5	6.6
70°-80°	313.5	3.5
80°-90°	80.3	0.9
90°-100°	285.9	3.2
100°-110°	751.7	8.3
110°-120°	779.4	8.6
120°-130°	625.2	6.9
130°-140°	490.6	5.4
140°-150°	376.5	4.2
150°-160°	271.2	3.0
160°-170°	165.9	1.8
170°-180°	56.1	0.6
0°-30°	1499.4	16.6
0°-40°	2454.2	27.2
0°-60°	4250.3	47.0
0°-90°	5236.6	57.9
90°-120°	1817.1	20.1
90°-150°	3309.4	36.6
90°-180°	3802.0	42.1
0°-180°	9039.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2019	2019	2019	2019	2019	
5°	2028	2091	2028	1644	2028	192
15°	1937	2072	1937	1730	1937	545
25°	1706	1933	1706	1692	1706	783
35°	1297	1725	1297	1472	1297	802
45°	837	1421	837	1247	837	670
55°	682	1049	682	1024	682	627
65°	474	632	474	707	474	453
75°	180	300	180	359	180	189
85°	31	76	31	65	31	41
90°	4	15	4	15	4	5
95°	38	173	38	173	38	42
105°	135	1177	135	1177	135	144
115°	241	1516	241	1516	241	238
125°	335	1207	335	1207	335	297
135°	399	937	399	937	399	309
145°	463	760	463	760	463	290
155°	523	654	523	654	523	240
165°	564	609	564	609	564	159
175°	587	590	587	590	587	56
180°	587	587	587	587	587	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	2036.0	2036.0	2047.4	2051.2	2051.2	2045.5	2039.8	2045.5	2062.7	2068.4	2066.5
5°	2028.3	2043.6	2064.6	2068.4	2072.3	2070.3	2066.5	2070.3	2089.4	2093.3	2095.2
7.5°	2013.0	2041.7	2068.4	2074.2	2079.9	2074.2	2072.3	2076.1	2095.2	2099.0	2099.0
10°	1993.9	2034.1	2064.6	2068.4	2074.2	2068.4	2068.4	2076.1	2095.2	2099.0	2100.9
12.5°	1967.2	2022.6	2051.2	2055.1	2062.7	2060.8	2058.9	2066.5	2085.6	2089.4	2089.4
15°	1936.6	2001.6	2028.3	2032.1	2045.5	2041.7	2041.7	2049.3	2070.3	2076.1	2074.2
17.5°	1894.6	1974.8	2005.4	2011.1	2020.7	2018.8	2020.7	2028.3	2047.4	2051.2	2053.2
20°	1846.9	1938.6	1974.8	1980.6	1990.1	1990.1	1990.1	1999.7	2018.8	2026.4	2026.4
22.5°	1781.9	1900.4	1938.6	1942.4	1953.8	1953.8	1957.7	1971.0	1988.2	1990.1	1990.1
25°	1705.5	1858.3	1890.8	1902.3	1913.7	1919.5	1925.2	1932.8	1938.6	1936.6	1938.6
27.5°	1625.3	1804.9	1846.9	1854.5	1869.8	1875.5	1883.2	1885.1	1887.0	1892.7	1888.9
30°	1535.5	1730.4	1793.4	1801.0	1825.9	1829.7	1822.0	1825.9	1835.4	1839.2	1843.1
32.5°	1434.3	1619.6	1738.0	1755.2	1778.1	1766.7	1764.7	1770.5	1785.8	1785.8	1789.6
35°	1296.8	1533.6	1686.4	1701.7	1718.9	1705.5	1713.2	1715.1	1724.6	1730.4	1728.5
37.5°	1145.9	1459.1	1633.0	1644.4	1657.8	1640.6	1652.1	1657.8	1665.4	1661.6	1661.6
40°	1012.3	1342.6	1569.9	1577.6	1589.0	1575.7	1587.1	1590.9	1594.8	1590.9	1589.0
42.5°	913.0	1214.7	1503.1	1512.6	1505.0	1514.5	1518.4	1526.0	1520.3	1512.6	1512.6
45°	836.6	1180.3	1430.5	1442.0	1430.5	1445.8	1451.5	1451.5	1434.3	1430.5	1428.6
47.5°	811.8	1111.6	1357.9	1357.9	1352.2	1371.3	1380.8	1367.5	1350.3	1344.5	1344.5
50°	809.8	1035.2	1258.6	1251.0	1277.7	1300.6	1291.1	1277.7	1264.3	1243.3	1243.3
52.5°	735.4	941.6	1130.7	1159.3	1201.3	1214.7	1199.4	1186.0	1163.1	1153.5	1145.9
55°	681.9	844.2	1014.2	1071.5	1115.4	1132.6	1104.0	1090.6	1056.2	1050.5	1046.7
57.5°	670.4	702.9	907.2	979.8	1033.3	1031.4	1014.2	989.4	960.7	955.0	953.1
60°	615.0	508.1	792.6	878.6	934.0	928.3	913.0	890.1	863.3	859.5	855.7
62.5°	557.7	368.6	662.8	760.2	838.5	836.6	823.2	788.8	769.7	760.2	752.5
65°	473.7	309.4	471.8	632.2	744.9	748.7	720.1	695.2	674.2	662.8	660.9
67.5°	361.0	252.1	319.0	527.2	655.1	651.3	615.0	603.6	576.8	571.1	559.6
70°	267.4	168.1	221.6	427.8	567.3	557.7	529.1	515.7	490.9	477.5	469.9
72.5°	221.6	135.6	162.4	332.3	477.5	466.0	441.2	425.9	404.9	393.5	385.8
75°	179.5	143.2	124.2	246.4	387.7	380.1	357.2	341.9	324.7	309.4	311.3
77.5°	131.8	133.7	99.3	181.4	307.5	296.0	282.7	263.6	255.9	240.7	240.7
80°	99.3	105.0	74.5	124.2	221.6	221.6	210.1	196.7	183.4	175.7	175.7
82.5°	66.8	66.8	55.4	78.3	150.9	145.2	137.5	133.7	126.1	122.2	122.2
85°	30.6	38.2	34.4	47.8	82.1	86.0	86.0	82.1	80.2	76.4	78.3
87.5°	9.5	17.2	21.0	26.7	42.0	43.9	45.8	45.8	45.8	47.8	47.8
90°	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.5	20.0	15.0	15.0
92.5°	15.8	42.5	69.3	76.0	106.9	147.9	168.5	147.6	106.0	74.8	71.8
95°	37.8	86.8	135.8	148.0	262.8	415.9	492.5	439.5	333.5	253.9	245.0
97.5°	65.3	108.5	151.7	162.5	354.0	609.3	737.0	703.5	636.4	586.2	569.0
100°	86.6	125.8	164.9	174.8	387.3	670.5	812.1	814.6	819.5	823.1	802.7
102.5°	104.8	141.3	177.8	187.0	402.4	689.8	833.4	876.1	961.5	1025.5	1008.0
105°	135.4	166.4	197.4	205.1	413.8	692.0	831.0	926.7	1118.2	1261.7	1252.3
107.5°	166.9	195.8	224.6	231.9	415.8	661.1	783.8	917.3	1184.3	1384.6	1386.9
110°	188.1	214.2	240.4	246.9	412.8	633.8	744.4	893.7	1192.1	1416.0	1425.8

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CANDELA DISTRIBUTION (continued):

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

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	2070.3	2064.6	2070.3	2066.5	2068.4	2062.7	2045.5	2039.8	2045.5	2051.2	2051.2
5°	2095.2	2091.4	2095.2	2095.2	2093.3	2089.4	2070.3	2066.5	2070.3	2072.3	2068.4
7.5°	2102.8	2097.1	2102.8	2099.0	2099.0	2095.2	2076.1	2072.3	2074.2	2079.9	2074.2
10°	2102.8	2097.1	2102.8	2100.9	2099.0	2095.2	2076.1	2068.4	2068.4	2074.2	2068.4
12.5°	2093.3	2089.4	2093.3	2089.4	2089.4	2085.6	2066.5	2058.9	2060.8	2062.7	2055.1
15°	2078.0	2072.3	2078.0	2074.2	2076.1	2070.3	2049.3	2041.7	2041.7	2045.5	2032.1
17.5°	2055.1	2047.4	2055.1	2053.2	2051.2	2047.4	2028.3	2020.7	2018.8	2020.7	2011.1
20°	2028.3	2022.6	2028.3	2026.4	2026.4	2018.8	1999.7	1990.1	1990.1	1990.1	1980.6
22.5°	1986.3	1980.6	1986.3	1990.1	1990.1	1988.2	1971.0	1957.7	1953.8	1953.8	1942.4
25°	1938.6	1932.8	1938.6	1938.6	1936.6	1938.6	1932.8	1925.2	1919.5	1913.7	1902.3
27.5°	1892.7	1888.9	1892.7	1888.9	1892.7	1887.0	1885.1	1883.2	1875.5	1869.8	1854.5
30°	1846.9	1843.1	1846.9	1843.1	1839.2	1835.4	1825.9	1822.0	1829.7	1825.9	1801.0
32.5°	1789.6	1785.8	1789.6	1789.6	1785.8	1785.8	1770.5	1764.7	1766.7	1778.1	1755.2
35°	1730.4	1724.6	1730.4	1728.5	1730.4	1724.6	1715.1	1713.2	1705.5	1718.9	1701.7
37.5°	1661.6	1655.9	1661.6	1661.6	1661.6	1665.4	1657.8	1652.1	1640.6	1657.8	1644.4
40°	1590.9	1583.3	1590.9	1589.0	1590.9	1594.8	1590.9	1587.1	1575.7	1589.0	1577.6
42.5°	1510.7	1508.8	1510.7	1512.6	1512.6	1520.3	1526.0	1518.4	1514.5	1505.0	1512.6
45°	1424.8	1420.9	1424.8	1428.6	1430.5	1434.3	1451.5	1451.5	1445.8	1430.5	1442.0
47.5°	1333.1	1323.5	1333.1	1344.5	1344.5	1350.3	1367.5	1380.8	1371.3	1352.2	1357.9
50°	1235.7	1237.6	1235.7	1243.3	1243.3	1264.3	1277.7	1291.1	1300.6	1277.7	1251.0
52.5°	1140.2	1138.4	1140.2	1145.9	1153.5	1163.1	1186.0	1199.4	1214.7	1201.3	1159.3
55°	1044.8	1048.6	1044.8	1046.7	1050.5	1056.2	1090.6	1104.0	1132.6	1115.4	1071.5
57.5°	949.3	943.5	949.3	953.1	955.0	960.7	989.4	1014.2	1031.4	1033.3	979.8
60°	838.5	830.8	838.5	855.7	859.5	863.3	890.1	913.0	928.3	934.0	878.6
62.5°	741.1	727.7	741.1	752.5	760.2	769.7	788.8	823.2	836.6	838.5	760.2
65°	637.9	632.2	637.9	660.9	662.8	674.2	695.2	720.1	748.7	744.9	632.2
67.5°	544.4	544.4	544.4	559.6	571.1	576.8	603.6	615.0	651.3	655.1	527.2
70°	458.4	456.5	458.4	469.9	477.5	490.9	515.7	529.1	557.7	567.3	427.8
72.5°	376.3	374.4	376.3	385.8	393.5	404.9	425.9	441.2	466.0	477.5	332.3
75°	303.7	299.9	303.7	311.3	309.4	324.7	341.9	357.2	380.1	387.7	246.4
77.5°	233.0	233.0	233.0	240.7	240.7	255.9	263.6	282.7	296.0	307.5	181.4
80°	173.8	171.9	173.8	175.7	175.7	183.4	196.7	210.1	221.6	221.6	124.2
82.5°	122.2	118.4	122.2	122.2	122.2	126.1	133.7	137.5	145.2	150.9	78.3
85°	76.4	76.4	76.4	78.3	76.4	80.2	82.1	86.0	86.0	82.1	47.8
87.5°	49.7	47.8	49.7	47.8	47.8	45.8	45.8	45.8	43.9	42.0	26.7
90°	15.0	15.0	15.0	15.0	15.0	20.0	26.5	29.9	25.7	17.3	11.0
92.5°	59.9	48.0	59.9	71.8	74.8	106.0	147.6	168.5	147.9	106.9	76.0
95°	208.9	172.9	208.9	245.0	253.9	333.5	439.5	492.5	415.9	262.8	148.0
97.5°	500.4	431.9	500.4	569.0	586.2	636.4	703.5	737.0	609.3	354.0	162.5
100°	721.0	639.3	721.0	802.7	823.1	819.5	814.6	812.1	670.5	387.3	174.8
102.5°	938.0	868.0	938.0	1008.0	1025.5	961.5	876.1	833.4	689.8	402.4	187.0
105°	1214.7	1177.0	1214.7	1252.3	1261.7	1118.2	926.7	831.0	692.0	413.8	205.1
107.5°	1395.9	1405.0	1395.9	1386.9	1384.6	1184.3	917.3	783.8	661.1	415.8	231.9
110°	1465.0	1504.2	1465.0	1425.8	1416.0	1192.1	893.7	744.4	633.8	412.8	246.9

TEST NUMBER: P934404

CATALOG NUMBER: SQ4-FA-050U-075D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

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

TEST NUMBER: P934404

CATALOG NUMBER: SQ4-FA-050U-075D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	2047.4	2036.0	2036.0	2016.9	2009.2	2003.5	1993.9	1965.3	1957.7	1950.0	1961.5
5°	2064.6	2043.6	2028.3	1993.9	1965.3	1953.8	1917.5	1848.8	1802.9	1768.6	1749.5
7.5°	2068.4	2041.7	2013.0	1959.6	1890.8	1860.2	1749.5	1623.4	1589.0	1558.5	1539.4
10°	2064.6	2034.1	1993.9	1913.7	1751.4	1697.9	1587.1	1505.0	1484.0	1478.2	1484.0
12.5°	2051.2	2022.6	1967.2	1833.5	1606.2	1569.9	1505.0	1457.2	1453.4	1463.0	1514.5
15°	2028.3	2001.6	1936.6	1726.5	1526.0	1499.3	1453.4	1436.2	1457.2	1524.1	1678.8
17.5°	2005.4	1974.8	1894.6	1621.5	1464.9	1445.8	1413.3	1447.7	1566.1	1655.9	1707.4
20°	1974.8	1938.6	1846.9	1545.1	1420.9	1403.8	1388.5	1543.2	1633.0	1665.4	1694.1
22.5°	1938.6	1900.4	1781.9	1491.6	1375.1	1361.7	1371.3	1596.7	1633.0	1655.9	1680.7
25°	1890.8	1858.3	1705.5	1449.6	1338.8	1323.5	1359.8	1590.9	1611.9	1617.7	1667.3
27.5°	1846.9	1804.9	1625.3	1411.4	1294.9	1289.2	1369.4	1566.1	1581.4	1587.1	1640.6
30°	1793.4	1730.4	1535.5	1371.3	1249.0	1247.1	1371.3	1535.5	1531.7	1547.0	1600.5
32.5°	1738.0	1619.6	1434.3	1321.6	1205.1	1203.2	1357.9	1489.7	1485.9	1506.9	1547.0
35°	1686.4	1533.6	1296.8	1264.3	1149.7	1151.6	1325.4	1436.2	1438.1	1457.2	1482.1
37.5°	1633.0	1459.1	1145.9	1201.3	1096.3	1096.3	1281.5	1386.6	1382.7	1388.5	1422.9
40°	1569.9	1342.6	1012.3	1119.3	1046.7	1041.0	1228.0	1333.1	1319.7	1317.8	1365.6
42.5°	1503.1	1214.7	913.0	1010.4	989.4	981.7	1163.1	1268.1	1243.3	1249.0	1310.2
45°	1430.5	1180.3	836.6	853.8	930.2	924.4	1092.5	1193.7	1176.5	1191.7	1254.8
47.5°	1357.9	1111.6	811.8	708.6	867.1	865.2	1014.2	1121.2	1111.6	1126.9	1193.7
50°	1258.6	1035.2	809.8	607.4	796.5	804.1	920.6	1050.5	1050.5	1063.9	1134.5
52.5°	1130.7	941.6	735.4	550.1	714.3	737.3	838.5	989.4	993.2	1006.6	1069.6
55°	1014.2	844.2	681.9	506.2	616.9	666.6	758.3	926.4	934.0	947.4	1004.7
57.5°	907.2	702.9	670.4	454.6	527.2	574.9	687.6	865.2	869.0	880.5	935.9
60°	792.6	508.1	615.0	399.2	448.8	485.1	622.7	792.6	806.0	813.7	861.4
62.5°	662.8	368.6	557.7	361.0	410.6	418.3	569.2	723.9	741.1	746.8	775.5
65°	471.8	309.4	473.7	328.5	370.5	372.4	511.9	653.2	668.5	678.0	699.1
67.5°	319.0	252.1	361.0	298.0	340.0	341.9	456.5	571.1	592.1	599.7	613.1
70°	221.6	168.1	267.4	265.5	305.6	309.4	397.3	496.6	515.7	521.4	529.1
72.5°	162.4	135.6	221.6	238.8	269.3	273.1	336.2	412.6	431.7	437.4	441.2
75°	124.2	143.2	179.5	208.2	229.2	231.1	275.0	336.2	349.5	353.3	355.3
77.5°	99.3	133.7	131.8	168.1	187.2	183.4	215.8	259.8	271.2	271.2	271.2
80°	74.5	105.0	99.3	120.3	137.5	133.7	154.7	185.3	189.1	192.9	191.0
82.5°	55.4	66.8	66.8	76.4	91.7	87.9	103.1	120.3	120.3	120.3	124.2
85°	34.4	38.2	30.6	40.1	51.6	49.7	57.3	64.9	66.8	66.8	63.0
87.5°	21.0	17.2	9.5	15.3	22.9	22.9	26.7	28.6	26.7	26.7	26.7
90°	10.2	7.1	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.5	20.0
92.5°	69.3	42.5	15.8	42.5	69.3	76.0	106.9	147.9	168.5	147.6	106.0
95°	135.8	86.8	37.8	86.8	135.8	148.0	262.8	415.9	492.5	439.5	333.5
97.5°	151.7	108.5	65.3	108.5	151.7	162.5	354.0	609.3	737.0	703.5	636.4
100°	164.9	125.8	86.6	125.8	164.9	174.8	387.3	670.5	812.1	814.6	819.5
102.5°	177.8	141.3	104.8	141.3	177.8	187.0	402.4	689.8	833.4	876.1	961.5
105°	197.4	166.4	135.4	166.4	197.4	205.1	413.8	692.0	831.0	926.7	1118.2
107.5°	224.6	195.8	166.9	195.8	224.6	231.9	415.8	661.1	783.8	917.3	1184.3
110°	240.4	214.2	188.1	214.2	240.4	246.9	412.8	633.8	744.4	893.7	1192.1

TEST NUMBER: P934404

CATALOG NUMBER: SQ4-FA-050U-075D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

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

TEST NUMBER: P934404

CATALOG NUMBER: SQ4-FA-050U-075D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	1948.1	1942.4	1950.0	1929.0	1950.0	1942.4	1948.1	1961.5	1950.0	1957.7	1965.3
5°	1709.4	1699.8	1669.2	1644.4	1669.2	1699.8	1709.4	1749.5	1768.6	1802.9	1848.8
7.5°	1527.9	1520.3	1512.6	1497.3	1512.6	1520.3	1527.9	1539.4	1558.5	1589.0	1623.4
10°	1487.8	1489.7	1501.2	1499.3	1501.2	1489.7	1487.8	1484.0	1478.2	1484.0	1505.0
12.5°	1590.9	1608.1	1671.2	1667.3	1671.2	1608.1	1590.9	1514.5	1463.0	1453.4	1457.2
15°	1709.4	1715.1	1728.5	1730.4	1728.5	1715.1	1709.4	1678.8	1524.1	1457.2	1436.2
17.5°	1720.8	1722.7	1732.3	1732.3	1732.3	1722.7	1720.8	1707.4	1655.9	1566.1	1447.7
20°	1711.3	1715.1	1734.2	1738.0	1734.2	1715.1	1711.3	1694.1	1665.4	1633.0	1543.2
22.5°	1707.4	1715.1	1730.4	1728.5	1730.4	1715.1	1707.4	1680.7	1655.9	1633.0	1596.7
25°	1688.3	1688.3	1690.3	1692.2	1690.3	1688.3	1688.3	1667.3	1617.7	1611.9	1590.9
27.5°	1648.2	1652.1	1663.5	1661.6	1663.5	1652.1	1648.2	1640.6	1587.1	1581.4	1566.1
30°	1611.9	1608.1	1598.6	1590.9	1598.6	1608.1	1611.9	1600.5	1547.0	1531.7	1535.5
32.5°	1550.8	1541.3	1531.7	1526.0	1531.7	1541.3	1550.8	1547.0	1506.9	1485.9	1489.7
35°	1478.2	1480.2	1478.2	1472.5	1478.2	1480.2	1478.2	1482.1	1457.2	1438.1	1436.2
37.5°	1426.7	1430.5	1428.6	1420.9	1428.6	1430.5	1426.7	1422.9	1388.5	1382.7	1386.6
40°	1373.2	1375.1	1373.2	1367.5	1373.2	1375.1	1373.2	1365.6	1317.8	1319.7	1333.1
42.5°	1321.6	1319.7	1314.0	1310.2	1314.0	1319.7	1321.6	1310.2	1249.0	1243.3	1268.1
45°	1262.4	1264.3	1252.9	1247.1	1252.9	1264.3	1262.4	1254.8	1191.7	1176.5	1193.7
47.5°	1203.2	1203.2	1193.7	1187.9	1193.7	1203.2	1203.2	1193.7	1126.9	1111.6	1121.2
50°	1140.2	1138.4	1125.0	1123.1	1125.0	1138.4	1140.2	1134.5	1063.9	1050.5	1050.5
52.5°	1067.7	1067.7	1069.6	1073.4	1069.6	1067.7	1067.7	1069.6	1006.6	993.2	989.4
55°	1004.7	1006.6	1019.9	1023.8	1019.9	1006.6	1004.7	1004.7	947.4	934.0	926.4
57.5°	939.7	939.7	949.3	949.3	949.3	939.7	939.7	935.9	880.5	869.0	865.2
60°	865.2	869.0	876.7	874.8	876.7	869.0	865.2	861.4	813.7	806.0	792.6
62.5°	786.9	790.7	792.6	788.8	792.6	790.7	786.9	775.5	746.8	741.1	723.9
65°	704.8	708.6	710.5	706.7	710.5	708.6	704.8	699.1	678.0	668.5	653.2
67.5°	620.8	618.8	616.9	624.6	616.9	618.8	620.8	613.1	599.7	592.1	571.1
70°	534.8	534.8	532.9	536.7	532.9	534.8	534.8	529.1	521.4	515.7	496.6
72.5°	443.1	441.2	448.8	443.1	448.8	441.2	443.1	441.2	437.4	431.7	412.6
75°	353.3	357.2	353.3	359.1	353.3	357.2	353.3	355.3	353.3	349.5	336.2
77.5°	269.3	273.1	269.3	269.3	269.3	273.1	269.3	271.2	271.2	271.2	259.8
80°	191.0	189.1	189.1	187.2	189.1	189.1	191.0	191.0	192.9	189.1	185.3
82.5°	122.2	120.3	120.3	124.2	120.3	120.3	122.2	124.2	120.3	120.3	120.3
85°	66.8	68.8	64.9	64.9	64.9	68.8	66.8	63.0	66.8	66.8	64.9
87.5°	24.8	22.9	22.9	22.9	22.9	22.9	24.8	26.7	26.7	26.7	28.6
90°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	20.0	26.5	29.9	25.7
92.5°	74.8	71.8	59.9	48.0	59.9	71.8	74.8	106.0	147.6	168.5	147.9
95°	253.9	245.0	208.9	172.9	208.9	245.0	253.9	333.5	439.5	492.5	415.9
97.5°	586.2	569.0	500.4	431.9	500.4	569.0	586.2	636.4	703.5	737.0	609.3
100°	823.1	802.7	721.0	639.3	721.0	802.7	823.1	819.5	814.6	812.1	670.5
102.5°	1025.5	1008.0	938.0	868.0	938.0	1008.0	1025.5	961.5	876.1	833.4	689.8
105°	1261.7	1252.3	1214.7	1177.0	1214.7	1252.3	1261.7	1118.2	926.7	831.0	692.0
107.5°	1384.6	1386.9	1395.9	1405.0	1395.9	1386.9	1384.6	1184.3	917.3	783.8	661.1
110°	1416.0	1425.8	1465.0	1504.2	1465.0	1425.8	1416.0	1192.1	893.7	744.4	633.8

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CANDELA DISTRIBUTION (continued):

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

TEST NUMBER: P934404

CATALOG NUMBER: SQ4-FA-050U-075D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	1993.9	2003.5	2009.2	2016.9	2036.0
5°	1917.5	1953.8	1965.3	1993.9	2028.3
7.5°	1749.5	1860.2	1890.8	1959.6	2013.0
10°	1587.1	1697.9	1751.4	1913.7	1993.9
12.5°	1505.0	1569.9	1606.2	1833.5	1967.2
15°	1453.4	1499.3	1526.0	1726.5	1936.6
17.5°	1413.3	1445.8	1464.9	1621.5	1894.6
20°	1388.5	1403.8	1420.9	1545.1	1846.9
22.5°	1371.3	1361.7	1375.1	1491.6	1781.9
25°	1359.8	1323.5	1338.8	1449.6	1705.5
27.5°	1369.4	1289.2	1294.9	1411.4	1625.3
30°	1371.3	1247.1	1249.0	1371.3	1535.5
32.5°	1357.9	1203.2	1205.1	1321.6	1434.3
35°	1325.4	1151.6	1149.7	1264.3	1296.8
37.5°	1281.5	1096.3	1096.3	1201.3	1145.9
40°	1228.0	1041.0	1046.7	1119.3	1012.3
42.5°	1163.1	981.7	989.4	1010.4	913.0
45°	1092.5	924.4	930.2	853.8	836.6
47.5°	1014.2	865.2	867.1	708.6	811.8
50°	920.6	804.1	796.5	607.4	809.8
52.5°	838.5	737.3	714.3	550.1	735.4
55°	758.3	666.6	616.9	506.2	681.9
57.5°	687.6	574.9	527.2	454.6	670.4
60°	622.7	485.1	448.8	399.2	615.0
62.5°	569.2	418.3	410.6	361.0	557.7
65°	511.9	372.4	370.5	328.5	473.7
67.5°	456.5	341.9	340.0	298.0	361.0
70°	397.3	309.4	305.6	265.5	267.4
72.5°	336.2	273.1	269.3	238.8	221.6
75°	275.0	231.1	229.2	208.2	179.5
77.5°	215.8	183.4	187.2	168.1	131.8
80°	154.7	133.7	137.5	120.3	99.3
82.5°	103.1	87.9	91.7	76.4	66.8
85°	57.3	49.7	51.6	40.1	30.6
87.5°	26.7	22.9	22.9	15.3	9.5
90°	17.3	11.0	10.2	7.1	3.9
92.5°	106.9	76.0	69.3	42.5	15.8
95°	262.8	148.0	135.8	86.8	37.8
97.5°	354.0	162.5	151.7	108.5	65.3
100°	387.3	174.8	164.9	125.8	86.6
102.5°	402.4	187.0	177.8	141.3	104.8
105°	413.8	205.1	197.4	166.4	135.4
107.5°	415.8	231.9	224.6	195.8	166.9
110°	412.8	246.9	240.4	214.2	188.1

TEST NUMBER: P934404

CATALOG NUMBER: SQ4-FA-050U-075D-B40-1D-UNV-W2A-W-8

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)