

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: P934297

Luminaire Tested: SQ4-FA-050U-050D-B35-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934297
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-B35-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

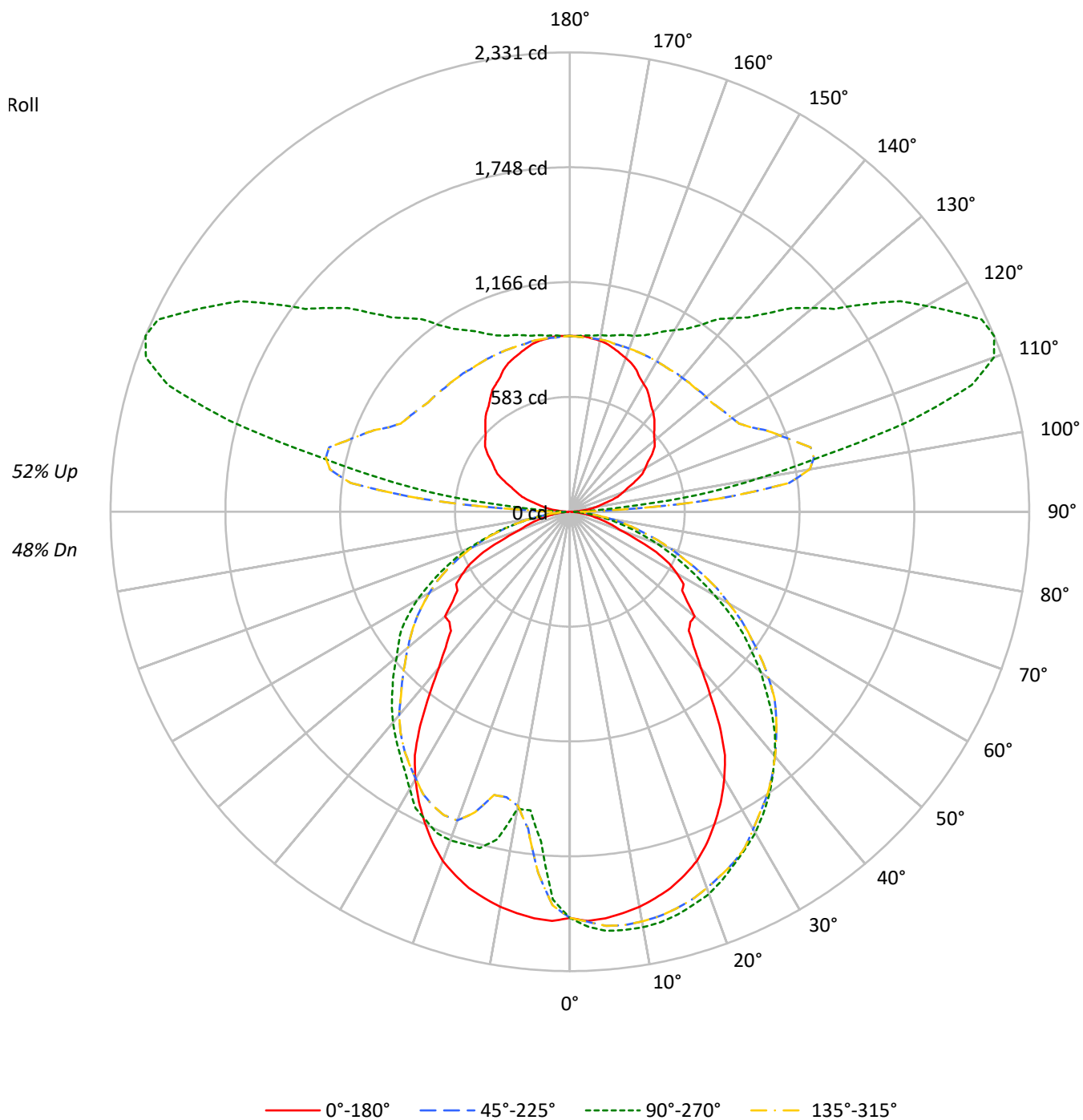
Lumens per Lamp: N/A
Luminaire Lumens: 11133.8 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

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°	6374	6374	6374	6374
5°	6424	6434	6424	5059
10°	6383	6338	6383	4531
15°	6316	6201	6316	5178
20°	6187	6038	6187	5188
25°	5919	5801	5919	5078
30°	5572	5604	5572	4837
35°	4970	5355	4970	4572
40°	4143	5061	4143	4371
45°	3704	4718	3704	4141
50°	3939	4308	3939	3909
55°	3709	3868	3709	3776
60°	3828	3285	3828	3458
65°	3477	2716	3477	3035
70°	2414	2164	2414	2544
75°	2123	1600	2123	1915
80°	1725	1058	1725	1152
85°	1011	560	1011	476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 5674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	1.7
10°-20°	528.1	4.7
20°-30°	816.4	7.3
30°-40°	974.6	8.8
40°-50°	980.4	8.8
50°-60°	853.0	7.7
60°-70°	604.8	5.4
70°-80°	320.0	2.9
80°-90°	83.1	0.7
90°-100°	435.1	3.9
100°-110°	1144.1	10.3
110°-120°	1186.3	10.7
120°-130°	951.5	8.5
130°-140°	746.6	6.7
140°-150°	573.1	5.1
150°-160°	412.7	3.7
160°-170°	252.5	2.3
170°-180°	85.3	0.8
0°-30°	1530.6	13.7
0°-40°	2505.2	22.5
0°-60°	4338.6	39.0
0°-90°	5346.5	48.0
90°-120°	2765.5	24.8
90°-150°	5036.8	45.2
90°-180°	5787.0	52.0
0°-180°	11133.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2061	2061	2061	2061	2061	
5°	2070	2135	2070	1679	2070	196
15°	1977	2115	1977	1766	1977	556
25°	1741	1973	1741	1727	1741	799
35°	1324	1760	1324	1503	1324	819
45°	854	1450	854	1273	854	684
55°	696	1070	696	1045	696	640
65°	484	645	484	721	484	462
75°	183	306	183	366	183	193
85°	31	78	31	66	31	42
90°	6	23	6	23	6	6
95°	58	263	58	263	58	64
105°	206	1792	206	1792	206	219
115°	366	2307	366	2307	366	362
125°	509	1837	509	1837	509	452
135°	607	1425	607	1425	607	470
145°	704	1156	704	1156	704	441
155°	796	996	796	996	796	366
165°	859	928	859	928	859	242
175°	893	899	893	899	893	85
180°	893	893	893	893	893	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	2078.2	2078.2	2089.9	2093.8	2093.8	2088.0	2082.2	2088.0	2105.5	2111.4	2109.4
5°	2070.5	2086.1	2107.5	2111.4	2115.3	2113.4	2109.4	2113.4	2132.9	2136.7	2138.7
7.5°	2054.9	2084.1	2111.4	2117.3	2123.1	2117.3	2115.3	2119.2	2138.7	2142.6	2142.6
10°	2035.4	2076.3	2107.5	2111.4	2117.3	2111.4	2111.4	2119.2	2138.7	2142.6	2144.6
12.5°	2008.1	2064.6	2093.8	2097.8	2105.5	2103.6	2101.7	2109.4	2129.0	2132.9	2132.9
15°	1976.9	2043.1	2070.5	2074.3	2088.0	2084.1	2084.1	2091.9	2113.4	2119.2	2117.3
17.5°	1934.0	2015.9	2047.1	2052.9	2062.7	2060.7	2062.7	2070.5	2089.9	2093.8	2095.9
20°	1885.3	1978.8	2015.9	2021.7	2031.5	2031.5	2031.5	2041.2	2060.7	2068.5	2068.5
22.5°	1819.0	1939.8	1978.8	1982.8	1994.4	1994.4	1998.4	2011.9	2029.5	2031.5	2031.5
25°	1741.0	1896.9	1930.1	1941.8	1953.5	1959.3	1965.2	1973.0	1978.8	1976.9	1978.8
27.5°	1659.1	1842.4	1885.3	1893.0	1908.6	1914.5	1922.3	1924.2	1926.2	1932.0	1928.1
30°	1567.5	1766.3	1830.6	1838.5	1863.8	1867.7	1859.9	1863.8	1873.6	1877.4	1881.3
32.5°	1464.2	1653.2	1774.1	1791.7	1815.0	1803.4	1801.4	1807.3	1822.9	1822.9	1826.8
35°	1323.8	1565.5	1721.5	1737.1	1754.7	1741.0	1748.8	1750.7	1760.5	1766.3	1764.4
37.5°	1169.8	1489.4	1666.9	1678.6	1692.3	1674.7	1686.4	1692.3	1700.0	1696.1	1696.1
40°	1033.2	1370.6	1602.5	1610.4	1622.0	1608.4	1620.1	1624.0	1627.9	1624.0	1622.0
42.5°	931.9	1239.9	1534.3	1544.1	1536.3	1546.0	1549.9	1557.8	1551.9	1544.1	1544.1
45°	853.9	1204.9	1460.3	1471.9	1460.3	1475.9	1481.7	1481.7	1464.2	1460.3	1458.2
47.5°	828.6	1134.7	1386.2	1386.2	1380.3	1399.8	1409.5	1395.9	1378.4	1372.5	1372.5
50°	826.7	1056.7	1284.8	1276.9	1304.3	1327.6	1317.9	1304.3	1290.6	1269.2	1269.2
52.5°	750.6	961.2	1154.2	1183.4	1226.3	1239.9	1224.3	1210.7	1187.3	1177.5	1169.8
55°	696.0	861.7	1035.2	1093.7	1138.6	1156.1	1126.9	1113.2	1078.1	1072.3	1068.4
57.5°	684.3	717.4	926.1	1000.1	1054.8	1052.8	1035.2	1009.9	980.6	974.8	972.9
60°	627.8	518.6	809.1	896.8	953.3	947.5	931.9	908.5	881.2	877.3	873.5
62.5°	569.3	376.3	676.5	776.0	855.8	853.9	840.3	805.1	785.7	776.0	768.1
65°	483.5	315.8	481.6	645.4	760.4	764.3	735.0	709.7	688.2	676.5	674.5
67.5°	368.5	257.4	325.6	538.1	668.7	664.8	627.8	616.1	588.8	583.0	571.2
70°	273.0	171.6	226.2	436.7	579.1	569.3	540.0	526.4	501.1	487.4	479.6
72.5°	226.2	138.4	165.7	339.2	487.4	475.7	450.4	434.8	413.3	401.7	393.8
75°	183.2	146.2	126.7	251.5	395.7	388.0	364.5	348.9	331.4	315.8	317.7
77.5°	134.5	136.4	101.4	185.2	313.9	302.2	288.6	269.1	261.2	245.6	245.6
80°	101.4	107.3	76.1	126.7	226.2	226.2	214.4	200.8	187.1	179.4	179.4
82.5°	68.2	68.2	56.5	79.9	154.0	148.2	140.4	136.4	128.7	124.8	124.8
85°	31.2	39.0	35.1	48.7	83.8	87.7	87.7	83.8	81.9	78.0	79.9
87.5°	9.8	17.5	21.4	27.3	42.9	44.9	46.8	46.8	46.8	48.7	48.7
90°	6.0	10.8	15.6	16.8	26.4	39.1	45.5	40.5	30.3	22.8	22.8
92.5°	23.9	64.6	105.4	115.6	162.5	225.1	256.4	224.7	161.3	113.9	109.3
95°	57.6	132.1	206.7	225.3	400.0	633.0	749.5	668.8	507.5	386.4	372.7
97.5°	99.4	165.2	231.0	247.5	538.9	927.3	1121.6	1070.6	968.6	892.2	866.1
100°	131.8	191.5	251.1	266.0	589.3	1020.5	1236.1	1239.7	1247.2	1252.8	1221.7
102.5°	159.4	215.0	270.6	284.6	612.5	1049.8	1268.4	1333.3	1463.3	1560.8	1534.1
105°	206.1	253.2	300.3	312.1	629.7	1053.1	1264.8	1410.5	1701.8	1920.3	1905.9
107.5°	254.1	298.0	342.0	352.9	633.0	1006.3	1192.9	1396.1	1802.5	2107.3	2110.8
110°	286.4	326.1	365.8	375.7	628.1	964.7	1133.1	1360.2	1814.5	2155.2	2170.1

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	318.1	355.9	393.7	403.2	628.3	928.4	1078.5	1311.0	1775.9	2124.6	2147.5
115°	366.1	401.0	435.9	444.6	634.1	886.8	1013.2	1237.1	1685.0	2020.9	2052.7
117.5°	413.4	445.1	476.7	484.7	645.8	860.8	968.2	1170.4	1574.5	1877.7	1912.9
120°	441.0	470.8	500.6	508.0	655.4	852.0	950.3	1135.0	1504.3	1781.3	1815.5
122.5°	467.9	498.1	528.1	535.7	669.3	847.4	936.4	1102.7	1435.4	1684.8	1718.5
125°	509.3	536.7	564.2	571.0	687.9	843.6	921.5	1062.8	1345.3	1557.2	1588.3
127.5°	542.8	570.5	598.3	605.1	706.4	841.4	908.9	1030.2	1272.8	1454.8	1481.0
130°	560.9	590.7	620.5	627.9	720.0	842.7	904.2	1012.1	1228.1	1390.0	1414.3
132.5°	579.4	609.2	639.1	646.5	731.0	843.6	899.9	996.6	1189.9	1334.9	1356.6
135°	607.0	634.1	661.2	668.0	742.9	842.8	892.7	973.7	1135.7	1257.1	1275.8
137.5°	635.1	662.0	689.0	695.6	761.0	848.1	891.6	960.0	1096.9	1199.5	1214.8
140°	658.4	683.2	708.0	714.2	771.9	848.8	887.3	946.4	1064.7	1153.4	1167.7
142.5°	676.5	699.3	722.3	728.0	781.1	851.9	887.3	939.3	1043.1	1121.0	1133.3
145°	704.0	723.9	743.9	748.9	793.1	851.9	881.4	923.8	1008.8	1072.5	1081.8
147.5°	731.6	751.0	770.5	775.3	810.7	857.9	881.4	914.8	981.7	1031.8	1039.5
150°	749.5	767.1	784.7	789.1	819.9	860.9	881.4	909.6	966.0	1008.3	1014.6
152.5°	768.1	781.4	794.8	798.1	825.9	862.9	881.4	905.5	953.7	989.8	994.6
155°	795.6	805.5	815.4	817.8	839.1	867.3	881.4	900.6	938.9	967.6	970.7
157.5°	816.1	825.7	835.2	837.6	852.2	871.7	881.4	896.3	926.1	948.5	950.7
160°	829.9	837.3	844.8	846.6	858.2	873.7	881.4	894.2	919.7	938.9	940.1
162.5°	843.6	849.2	854.9	856.2	864.6	875.8	881.4	892.2	913.7	929.9	931.0
165°	858.6	863.7	868.7	870.0	873.7	878.9	881.4	889.2	904.6	916.1	917.4
167.5°	872.4	874.7	877.1	877.7	880.9	885.2	887.3	892.4	902.5	910.1	910.7
170°	881.4	883.7	886.2	886.7	886.9	887.2	887.3	892.4	902.5	910.1	910.1
172.5°	886.2	886.6	887.2	887.3	887.3	887.3	887.3	891.3	899.3	905.3	904.9
175°	892.7	892.7	892.7	892.7	890.9	888.5	887.3	889.8	895.0	898.7	898.7
177.5°	892.7	892.7	892.7	892.7	891.4	889.5	888.6	890.6	894.6	897.6	897.0
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	2113.4	2107.5	2113.4	2109.4	2111.4	2105.5	2088.0	2082.2	2088.0	2093.8	2093.8
5°	2138.7	2134.8	2138.7	2138.7	2136.7	2132.9	2113.4	2109.4	2113.4	2115.3	2111.4
7.5°	2146.5	2140.6	2146.5	2142.6	2142.6	2138.7	2119.2	2115.3	2117.3	2123.1	2117.3
10°	2146.5	2140.6	2146.5	2144.6	2142.6	2138.7	2119.2	2111.4	2111.4	2117.3	2111.4
12.5°	2136.7	2132.9	2136.7	2132.9	2132.9	2129.0	2109.4	2101.7	2103.6	2105.5	2097.8
15°	2121.1	2115.3	2121.1	2117.3	2119.2	2113.4	2091.9	2084.1	2084.1	2088.0	2074.3
17.5°	2097.8	2089.9	2097.8	2095.9	2093.8	2089.9	2070.5	2062.7	2060.7	2062.7	2052.9
20°	2070.5	2064.6	2070.5	2068.5	2068.5	2060.7	2041.2	2031.5	2031.5	2031.5	2021.7
22.5°	2027.5	2021.7	2027.5	2031.5	2031.5	2029.5	2011.9	1998.4	1994.4	1994.4	1982.8
25°	1978.8	1973.0	1978.8	1978.8	1976.9	1978.8	1973.0	1965.2	1959.3	1953.5	1941.8
27.5°	1932.0	1928.1	1932.0	1928.1	1932.0	1926.2	1924.2	1922.3	1914.5	1908.6	1893.0
30°	1885.3	1881.3	1885.3	1881.3	1877.4	1873.6	1863.8	1859.9	1867.7	1863.8	1838.5
32.5°	1826.8	1822.9	1826.8	1826.8	1822.9	1822.9	1807.3	1801.4	1803.4	1815.0	1791.7
35°	1766.3	1760.5	1766.3	1764.4	1766.3	1760.5	1750.7	1748.8	1741.0	1754.7	1737.1
37.5°	1696.1	1690.3	1696.1	1696.1	1696.1	1700.0	1692.3	1686.4	1674.7	1692.3	1678.6
40°	1624.0	1616.2	1624.0	1622.0	1624.0	1627.9	1624.0	1620.1	1608.4	1622.0	1610.4
42.5°	1542.2	1540.1	1542.2	1544.1	1544.1	1551.9	1557.8	1549.9	1546.0	1536.3	1544.1
45°	1454.4	1450.5	1454.4	1458.2	1460.3	1464.2	1481.7	1481.7	1475.9	1460.3	1471.9
47.5°	1360.8	1351.1	1360.8	1372.5	1372.5	1378.4	1395.9	1409.5	1399.8	1380.3	1386.2
50°	1261.3	1263.3	1261.3	1269.2	1269.2	1290.6	1304.3	1317.9	1327.6	1304.3	1276.9
52.5°	1163.9	1161.9	1163.9	1169.8	1177.5	1187.3	1210.7	1224.3	1239.9	1226.3	1183.4
55°	1066.4	1070.4	1066.4	1068.4	1072.3	1078.1	1113.2	1126.9	1156.1	1138.6	1093.7
57.5°	968.9	963.1	968.9	972.9	974.8	980.6	1009.9	1035.2	1052.8	1054.8	1000.1
60°	855.8	848.1	855.8	873.5	877.3	881.2	908.5	931.9	947.5	953.3	896.8
62.5°	756.4	742.8	756.4	768.1	776.0	785.7	805.1	840.3	853.9	855.8	776.0
65°	651.2	645.4	651.2	674.5	676.5	688.2	709.7	735.0	764.3	760.4	645.4
67.5°	555.6	555.6	555.6	571.2	583.0	588.8	616.1	627.8	664.8	668.7	538.1
70°	467.9	466.0	467.9	479.6	487.4	501.1	526.4	540.0	569.3	579.1	436.7
72.5°	384.1	382.1	384.1	393.8	401.7	413.3	434.8	450.4	475.7	487.4	339.2
75°	310.0	306.1	310.0	317.7	315.8	331.4	348.9	364.5	388.0	395.7	251.5
77.5°	237.9	237.9	237.9	245.6	245.6	261.2	269.1	288.6	302.2	313.9	185.2
80°	177.4	175.5	177.4	179.4	179.4	187.1	200.8	214.4	226.2	226.2	126.7
82.5°	124.8	120.8	124.8	124.8	124.8	128.7	136.4	140.4	148.2	154.0	79.9
85°	78.0	78.0	78.0	79.9	78.0	81.9	83.8	87.7	87.7	83.8	48.7
87.5°	50.7	48.7	50.7	48.7	48.7	46.8	46.8	46.8	44.9	42.9	27.3
90°	22.8	22.8	22.8	22.8	22.8	30.3	40.5	45.5	39.1	26.4	16.8
92.5°	91.2	73.1	91.2	109.3	113.9	161.3	224.7	256.4	225.1	162.5	115.6
95°	317.8	263.0	317.8	372.7	386.4	507.5	668.8	749.5	633.0	400.0	225.3
97.5°	761.6	657.3	761.6	866.1	892.2	968.6	1070.6	1121.6	927.3	538.9	247.5
100°	1097.4	973.1	1097.4	1221.7	1252.8	1247.2	1239.7	1236.1	1020.5	589.3	266.0
102.5°	1427.6	1321.1	1427.6	1534.1	1560.8	1463.3	1333.3	1268.4	1049.8	612.5	284.6
105°	1848.8	1791.5	1848.8	1905.9	1920.3	1701.8	1410.5	1264.8	1053.1	629.7	312.1
107.5°	2124.5	2138.4	2124.5	2110.8	2107.3	1802.5	1396.1	1192.9	1006.3	633.0	352.9
110°	2229.7	2289.4	2229.7	2170.1	2155.2	1814.5	1360.2	1133.1	964.7	628.1	375.7

TEST NUMBER: P934297

CATALOG NUMBER: SQ4-FA-050U-050D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2239.2	2330.7	2239.2	2147.5	2124.6	1775.9	1311.0	1078.5	928.4	628.3	403.2
115°	2179.8	2306.8	2179.8	2052.7	2020.9	1685.0	1237.1	1013.2	886.8	634.1	444.6
117.5°	2053.8	2194.7	2053.8	1912.9	1877.7	1574.5	1170.4	968.2	860.8	645.8	484.7
120°	1952.4	2089.3	1952.4	1815.5	1781.3	1504.3	1135.0	950.3	852.0	655.4	508.0
122.5°	1853.6	1988.6	1853.6	1718.5	1684.8	1435.4	1102.7	936.4	847.4	669.3	535.7
125°	1712.6	1837.0	1712.6	1588.3	1557.2	1345.3	1062.8	921.5	843.6	687.9	571.0
127.5°	1585.9	1690.8	1585.9	1481.0	1454.8	1272.8	1030.2	908.9	841.4	706.4	605.1
130°	1511.3	1608.2	1511.3	1414.3	1390.0	1228.1	1012.1	904.2	842.7	720.0	627.9
132.5°	1443.4	1530.2	1443.4	1356.6	1334.9	1189.9	996.6	899.9	843.6	731.0	646.5
135°	1350.6	1425.4	1350.6	1275.8	1257.1	1135.7	973.7	892.7	842.8	742.9	668.0
137.5°	1276.1	1337.3	1276.1	1214.8	1199.5	1096.9	960.0	891.6	848.1	761.0	695.6
140°	1224.9	1282.2	1224.9	1167.7	1153.4	1064.7	946.4	887.3	848.8	771.9	714.2
142.5°	1182.7	1231.9	1182.7	1133.3	1121.0	1043.1	939.3	887.3	851.9	781.1	728.0
145°	1119.1	1156.4	1119.1	1081.8	1072.5	1008.8	923.8	881.4	851.9	793.1	748.9
147.5°	1070.4	1101.3	1070.4	1039.5	1031.8	981.7	914.8	881.4	857.9	810.7	775.3
150°	1039.6	1064.7	1039.6	1014.6	1008.3	966.0	909.6	881.4	860.9	819.9	789.1
152.5°	1013.5	1032.4	1013.5	994.6	989.8	953.7	905.5	881.4	862.9	825.9	798.1
155°	983.3	995.8	983.3	970.7	967.6	938.9	900.6	881.4	867.3	839.1	817.8
157.5°	959.4	968.2	959.4	950.7	948.5	926.1	896.3	881.4	871.7	852.2	837.6
160°	945.3	950.3	945.3	940.1	938.9	919.7	894.2	881.4	873.7	858.2	846.6
162.5°	935.9	940.7	935.9	931.0	929.9	913.7	892.2	881.4	875.8	864.6	856.2
165°	922.5	927.5	922.5	917.4	916.1	904.6	889.2	881.4	878.9	873.7	870.0
167.5°	912.8	914.9	912.8	910.7	910.1	902.5	892.4	887.3	885.2	880.9	877.7
170°	910.1	910.1	910.1	910.1	910.1	902.5	892.4	887.3	887.2	886.9	886.7
172.5°	903.0	901.2	903.0	904.9	905.3	899.3	891.3	887.3	887.3	887.3	887.3
175°	898.7	898.7	898.7	898.7	898.7	895.0	889.8	887.3	888.5	890.9	892.7
177.5°	894.9	892.7	894.9	897.0	897.6	894.6	890.6	888.6	889.5	891.4	892.7
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7

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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	2089.9	2078.2	2078.2	2058.7	2051.0	2045.1	2035.4	2006.1	1998.4	1990.5	2002.2
5°	2107.5	2086.1	2070.5	2035.4	2006.1	1994.4	1957.4	1887.2	1840.4	1805.3	1785.9
7.5°	2111.4	2084.1	2054.9	2000.3	1930.1	1898.9	1785.9	1657.2	1622.0	1590.9	1571.3
10°	2107.5	2076.3	2035.4	1953.5	1787.8	1733.2	1620.1	1536.3	1514.8	1509.0	1514.8
12.5°	2093.8	2064.6	2008.1	1871.6	1639.6	1602.5	1536.3	1487.5	1483.6	1493.4	1546.0
15°	2070.5	2043.1	1976.9	1762.4	1557.8	1530.4	1483.6	1466.1	1487.5	1555.7	1713.7
17.5°	2047.1	2015.9	1934.0	1655.2	1495.4	1475.9	1442.6	1477.8	1598.7	1690.3	1742.9
20°	2015.9	1978.8	1885.3	1577.2	1450.5	1433.0	1417.4	1575.3	1666.9	1700.0	1729.3
22.5°	1978.8	1939.8	1819.0	1522.6	1403.7	1390.0	1399.8	1629.9	1666.9	1690.3	1715.6
25°	1930.1	1896.9	1741.0	1479.8	1366.7	1351.1	1388.1	1624.0	1645.5	1651.3	1702.0
27.5°	1885.3	1842.4	1659.1	1440.7	1321.8	1316.0	1397.9	1598.7	1614.3	1620.1	1674.7
30°	1830.6	1766.3	1567.5	1399.8	1275.0	1273.1	1399.8	1567.5	1563.6	1579.2	1633.7
32.5°	1774.1	1653.2	1464.2	1349.1	1230.1	1228.2	1386.2	1520.7	1516.8	1538.2	1579.2
35°	1721.5	1565.5	1323.8	1290.6	1173.7	1175.6	1353.0	1466.1	1468.0	1487.5	1512.9
37.5°	1666.9	1489.4	1169.8	1226.3	1119.1	1119.1	1308.1	1415.4	1411.5	1417.4	1452.4
40°	1602.5	1370.6	1033.2	1142.5	1068.4	1062.5	1253.6	1360.8	1347.2	1345.3	1393.9
42.5°	1534.3	1239.9	931.9	1031.3	1009.9	1002.0	1187.3	1294.5	1269.2	1275.0	1337.4
45°	1460.3	1204.9	853.9	871.4	949.4	943.6	1115.1	1218.5	1201.0	1216.6	1280.9
47.5°	1386.2	1134.7	828.6	723.3	885.1	883.1	1035.2	1144.4	1134.7	1150.3	1218.5
50°	1284.8	1056.7	826.7	620.0	813.0	820.7	939.7	1072.3	1072.3	1086.0	1158.1
52.5°	1154.2	961.2	750.6	561.4	729.2	752.5	855.8	1009.9	1013.8	1027.4	1091.8
55°	1035.2	861.7	696.0	516.7	629.8	680.4	773.9	945.6	953.3	967.0	1025.5
57.5°	926.1	717.4	684.3	464.0	538.1	586.8	701.8	883.1	887.0	898.7	955.3
60°	809.1	518.6	627.8	407.5	458.1	495.2	635.6	809.1	822.7	830.5	879.3
62.5°	676.5	376.3	569.3	368.5	419.2	426.9	581.0	738.9	756.4	762.3	791.6
65°	481.6	315.8	483.5	335.4	378.2	380.1	522.5	666.8	682.4	692.1	713.6
67.5°	325.6	257.4	368.5	304.2	347.0	348.9	466.0	583.0	604.4	612.2	625.8
70°	226.2	171.6	273.0	271.0	311.9	315.8	405.5	506.9	526.4	532.3	540.0
72.5°	165.7	138.4	226.2	243.7	274.9	278.8	343.1	421.1	440.6	446.4	450.4
75°	126.7	146.2	183.2	212.5	233.9	235.9	280.7	343.1	356.8	360.7	362.6
77.5°	101.4	136.4	134.5	171.6	191.1	187.1	220.4	265.1	276.8	276.8	276.8
80°	76.1	107.3	101.4	122.9	140.4	136.4	157.9	189.1	193.0	196.9	195.0
82.5°	56.5	68.2	68.2	78.0	93.6	89.7	105.2	122.9	122.9	122.9	126.7
85°	35.1	39.0	31.2	41.0	52.6	50.7	58.5	66.3	68.2	68.2	64.3
87.5°	21.4	17.5	9.8	15.6	23.4	23.4	27.3	29.3	27.3	27.3	27.3
90°	15.6	10.8	6.0	10.8	15.6	16.8	26.4	39.1	45.5	40.5	30.3
92.5°	105.4	64.6	23.9	64.6	105.4	115.6	162.5	225.1	256.4	224.7	161.3
95°	206.7	132.1	57.6	132.1	206.7	225.3	400.0	633.0	749.5	668.8	507.5
97.5°	231.0	165.2	99.4	165.2	231.0	247.5	538.9	927.3	1121.6	1070.6	968.6
100°	251.1	191.5	131.8	191.5	251.1	266.0	589.3	1020.5	1236.1	1239.7	1247.2
102.5°	270.6	215.0	159.4	215.0	270.6	284.6	612.5	1049.8	1268.4	1333.3	1463.3
105°	300.3	253.2	206.1	253.2	300.3	312.1	629.7	1053.1	1264.8	1410.5	1701.8
107.5°	342.0	298.0	254.1	298.0	342.0	352.9	633.0	1006.3	1192.9	1396.1	1802.5
110°	365.8	326.1	286.4	326.1	365.8	375.7	628.1	964.7	1133.1	1360.2	1814.5

TEST NUMBER: P934297

CATALOG NUMBER: SQ4-FA-050U-050D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	393.7	355.9	318.1	355.9	393.7	403.2	628.3	928.4	1078.5	1311.0	1775.9
115°	435.9	401.0	366.1	401.0	435.9	444.6	634.1	886.8	1013.2	1237.1	1685.0
117.5°	476.7	445.1	413.4	445.1	476.7	484.7	645.8	860.8	968.2	1170.4	1574.5
120°	500.6	470.8	441.0	470.8	500.6	508.0	655.4	852.0	950.3	1135.0	1504.3
122.5°	528.1	498.1	467.9	498.1	528.1	535.7	669.3	847.4	936.4	1102.7	1435.4
125°	564.2	536.7	509.3	536.7	564.2	571.0	687.9	843.6	921.5	1062.8	1345.3
127.5°	598.3	570.5	542.8	570.5	598.3	605.1	706.4	841.4	908.9	1030.2	1272.8
130°	620.5	590.7	560.9	590.7	620.5	627.9	720.0	842.7	904.2	1012.1	1228.1
132.5°	639.1	609.2	579.4	609.2	639.1	646.5	731.0	843.6	899.9	996.6	1189.9
135°	661.2	634.1	607.0	634.1	661.2	668.0	742.9	842.8	892.7	973.7	1135.7
137.5°	689.0	662.0	635.1	662.0	689.0	695.6	761.0	848.1	891.6	960.0	1096.9
140°	708.0	683.2	658.4	683.2	708.0	714.2	771.9	848.8	887.3	946.4	1064.7
142.5°	722.3	699.3	676.5	699.3	722.3	728.0	781.1	851.9	887.3	939.3	1043.1
145°	743.9	723.9	704.0	723.9	743.9	748.9	793.1	851.9	881.4	923.8	1008.8
147.5°	770.5	751.0	731.6	751.0	770.5	775.3	810.7	857.9	881.4	914.8	981.7
150°	784.7	767.1	749.5	767.1	784.7	789.1	819.9	860.9	881.4	909.6	966.0
152.5°	794.8	781.4	768.1	781.4	794.8	798.1	825.9	862.9	881.4	905.5	953.7
155°	815.4	805.5	795.6	805.5	815.4	817.8	839.1	867.3	881.4	900.6	938.9
157.5°	835.2	825.7	816.1	825.7	835.2	837.6	852.2	871.7	881.4	896.3	926.1
160°	844.8	837.3	829.9	837.3	844.8	846.6	858.2	873.7	881.4	894.2	919.7
162.5°	854.9	849.2	843.6	849.2	854.9	856.2	864.6	875.8	881.4	892.2	913.7
165°	868.7	863.7	858.6	863.7	868.7	870.0	873.7	878.9	881.4	889.2	904.6
167.5°	877.1	874.7	872.4	874.7	877.1	877.7	880.9	885.2	887.3	892.4	902.5
170°	886.2	883.7	881.4	883.7	886.2	886.7	886.9	887.2	887.3	892.4	902.5
172.5°	887.2	886.6	886.2	886.6	887.2	887.3	887.3	887.3	887.3	891.3	899.3
175°	892.7	892.7	892.7	892.7	892.7	892.7	890.9	888.5	887.3	889.8	895.0
177.5°	892.7	892.7	892.7	892.7	892.7	892.7	891.4	889.5	888.6	890.6	894.6
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7

TEST NUMBER: P934297

CATALOG NUMBER: SQ4-FA-050U-050D-B35-1D-UNV-W2A-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	1988.6	1982.8	1990.5	1969.1	1990.5	1982.8	1988.6	2002.2	1990.5	1998.4	2006.1
5°	1744.9	1735.1	1704.0	1678.6	1704.0	1735.1	1744.9	1785.9	1805.3	1840.4	1887.2
7.5°	1559.7	1551.9	1544.1	1528.5	1544.1	1551.9	1559.7	1571.3	1590.9	1622.0	1657.2
10°	1518.7	1520.7	1532.4	1530.4	1532.4	1520.7	1518.7	1514.8	1509.0	1514.8	1536.3
12.5°	1624.0	1641.6	1705.9	1702.0	1705.9	1641.6	1624.0	1546.0	1493.4	1483.6	1487.5
15°	1744.9	1750.7	1764.4	1766.3	1764.4	1750.7	1744.9	1713.7	1555.7	1487.5	1466.1
17.5°	1756.6	1758.5	1768.2	1768.2	1768.2	1758.5	1756.6	1742.9	1690.3	1598.7	1477.8
20°	1746.8	1750.7	1770.3	1774.1	1770.3	1750.7	1746.8	1729.3	1700.0	1666.9	1575.3
22.5°	1742.9	1750.7	1766.3	1764.4	1766.3	1750.7	1742.9	1715.6	1690.3	1666.9	1629.9
25°	1723.5	1723.5	1725.4	1727.3	1725.4	1723.5	1723.5	1702.0	1651.3	1645.5	1624.0
27.5°	1682.5	1686.4	1698.1	1696.1	1698.1	1686.4	1682.5	1674.7	1620.1	1614.3	1598.7
30°	1645.5	1641.6	1631.8	1624.0	1631.8	1641.6	1645.5	1633.7	1579.2	1563.6	1567.5
32.5°	1583.1	1573.3	1563.6	1557.8	1563.6	1573.3	1583.1	1579.2	1538.2	1516.8	1520.7
35°	1509.0	1511.0	1509.0	1503.1	1509.0	1511.0	1509.0	1512.9	1487.5	1468.0	1466.1
37.5°	1456.3	1460.3	1458.2	1450.5	1458.2	1460.3	1456.3	1452.4	1417.4	1411.5	1415.4
40°	1401.8	1403.7	1401.8	1395.9	1401.8	1403.7	1401.8	1393.9	1345.3	1347.2	1360.8
42.5°	1349.1	1347.2	1341.3	1337.4	1341.3	1347.2	1349.1	1337.4	1275.0	1269.2	1294.5
45°	1288.7	1290.6	1278.9	1273.1	1278.9	1290.6	1288.7	1280.9	1216.6	1201.0	1218.5
47.5°	1228.2	1228.2	1218.5	1212.6	1218.5	1228.2	1228.2	1218.5	1150.3	1134.7	1144.4
50°	1163.9	1161.9	1148.3	1146.3	1148.3	1161.9	1163.9	1158.1	1086.0	1072.3	1072.3
52.5°	1089.8	1089.8	1091.8	1095.6	1091.8	1089.8	1089.8	1091.8	1027.4	1013.8	1009.9
55°	1025.5	1027.4	1041.1	1045.0	1041.1	1027.4	1025.5	1025.5	967.0	953.3	945.6
57.5°	959.2	959.2	968.9	968.9	968.9	959.2	959.2	955.3	898.7	887.0	883.1
60°	883.1	887.0	894.9	892.9	894.9	887.0	883.1	879.3	830.5	822.7	809.1
62.5°	803.2	807.2	809.1	805.1	809.1	807.2	803.2	791.6	762.3	756.4	738.9
65°	719.4	723.3	725.2	721.3	725.2	723.3	719.4	713.6	692.1	682.4	666.8
67.5°	633.6	631.7	629.8	637.5	629.8	631.7	633.6	625.8	612.2	604.4	583.0
70°	545.8	545.8	543.9	547.9	543.9	545.8	545.8	540.0	532.3	526.4	506.9
72.5°	452.3	450.4	458.1	452.3	458.1	450.4	452.3	450.4	446.4	440.6	421.1
75°	360.7	364.5	360.7	366.5	360.7	364.5	360.7	362.6	360.7	356.8	343.1
77.5°	274.9	278.8	274.9	274.9	274.9	278.8	274.9	276.8	276.8	276.8	265.1
80°	195.0	193.0	193.0	191.1	193.0	193.0	195.0	195.0	196.9	193.0	189.1
82.5°	124.8	122.9	122.9	126.7	122.9	122.9	124.8	126.7	122.9	122.9	122.9
85°	68.2	70.2	66.3	66.3	66.3	70.2	68.2	64.3	68.2	68.2	66.3
87.5°	25.4	23.4	23.4	23.4	23.4	23.4	25.4	27.3	27.3	27.3	29.3
90°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	30.3	40.5	45.5	39.1
92.5°	113.9	109.3	91.2	73.1	91.2	109.3	113.9	161.3	224.7	256.4	225.1
95°	386.4	372.7	317.8	263.0	317.8	372.7	386.4	507.5	668.8	749.5	633.0
97.5°	892.2	866.1	761.6	657.3	761.6	866.1	892.2	968.6	1070.6	1121.6	927.3
100°	1252.8	1221.7	1097.4	973.1	1097.4	1221.7	1252.8	1247.2	1239.7	1236.1	1020.5
102.5°	1560.8	1534.1	1427.6	1321.1	1427.6	1534.1	1560.8	1463.3	1333.3	1268.4	1049.8
105°	1920.3	1905.9	1848.8	1791.5	1848.8	1905.9	1920.3	1701.8	1410.5	1264.8	1053.1
107.5°	2107.3	2110.8	2124.5	2138.4	2124.5	2110.8	2107.3	1802.5	1396.1	1192.9	1006.3
110°	2155.2	2170.1	2229.7	2289.4	2229.7	2170.1	2155.2	1814.5	1360.2	1133.1	964.7

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2124.6	2147.5	2239.2	2330.7	2239.2	2147.5	2124.6	1775.9	1311.0	1078.5	928.4
115°	2020.9	2052.7	2179.8	2306.8	2179.8	2052.7	2020.9	1685.0	1237.1	1013.2	886.8
117.5°	1877.7	1912.9	2053.8	2194.7	2053.8	1912.9	1877.7	1574.5	1170.4	968.2	860.8
120°	1781.3	1815.5	1952.4	2089.3	1952.4	1815.5	1781.3	1504.3	1135.0	950.3	852.0
122.5°	1684.8	1718.5	1853.6	1988.6	1853.6	1718.5	1684.8	1435.4	1102.7	936.4	847.4
125°	1557.2	1588.3	1712.6	1837.0	1712.6	1588.3	1557.2	1345.3	1062.8	921.5	843.6
127.5°	1454.8	1481.0	1585.9	1690.8	1585.9	1481.0	1454.8	1272.8	1030.2	908.9	841.4
130°	1390.0	1414.3	1511.3	1608.2	1511.3	1414.3	1390.0	1228.1	1012.1	904.2	842.7
132.5°	1334.9	1356.6	1443.4	1530.2	1443.4	1356.6	1334.9	1189.9	996.6	899.9	843.6
135°	1257.1	1275.8	1350.6	1425.4	1350.6	1275.8	1257.1	1135.7	973.7	892.7	842.8
137.5°	1199.5	1214.8	1276.1	1337.3	1276.1	1214.8	1199.5	1096.9	960.0	891.6	848.1
140°	1153.4	1167.7	1224.9	1282.2	1224.9	1167.7	1153.4	1064.7	946.4	887.3	848.8
142.5°	1121.0	1133.3	1182.7	1231.9	1182.7	1133.3	1121.0	1043.1	939.3	887.3	851.9
145°	1072.5	1081.8	1119.1	1156.4	1119.1	1081.8	1072.5	1008.8	923.8	881.4	851.9
147.5°	1031.8	1039.5	1070.4	1101.3	1070.4	1039.5	1031.8	981.7	914.8	881.4	857.9
150°	1008.3	1014.6	1039.6	1064.7	1039.6	1014.6	1008.3	966.0	909.6	881.4	860.9
152.5°	989.8	994.6	1013.5	1032.4	1013.5	994.6	989.8	953.7	905.5	881.4	862.9
155°	967.6	970.7	983.3	995.8	983.3	970.7	967.6	938.9	900.6	881.4	867.3
157.5°	948.5	950.7	959.4	968.2	959.4	950.7	948.5	926.1	896.3	881.4	871.7
160°	938.9	940.1	945.3	950.3	945.3	940.1	938.9	919.7	894.2	881.4	873.7
162.5°	929.9	931.0	935.9	940.7	935.9	931.0	929.9	913.7	892.2	881.4	875.8
165°	916.1	917.4	922.5	927.5	922.5	917.4	916.1	904.6	889.2	881.4	878.9
167.5°	910.1	910.7	912.8	914.9	912.8	910.7	910.1	902.5	892.4	887.3	885.2
170°	910.1	910.1	910.1	910.1	910.1	910.1	910.1	902.5	892.4	887.3	887.2
172.5°	905.3	904.9	903.0	901.2	903.0	904.9	905.3	899.3	891.3	887.3	887.3
175°	898.7	898.7	898.7	898.7	898.7	898.7	898.7	895.0	889.8	887.3	888.5
177.5°	897.6	897.0	894.9	892.7	894.9	897.0	897.6	894.6	890.6	888.6	889.5
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	2035.4	2045.1	2051.0	2058.7	2078.2
5°	1957.4	1994.4	2006.1	2035.4	2070.5
7.5°	1785.9	1898.9	1930.1	2000.3	2054.9
10°	1620.1	1733.2	1787.8	1953.5	2035.4
12.5°	1536.3	1602.5	1639.6	1871.6	2008.1
15°	1483.6	1530.4	1557.8	1762.4	1976.9
17.5°	1442.6	1475.9	1495.4	1655.2	1934.0
20°	1417.4	1433.0	1450.5	1577.2	1885.3
22.5°	1399.8	1390.0	1403.7	1522.6	1819.0
25°	1388.1	1351.1	1366.7	1479.8	1741.0
27.5°	1397.9	1316.0	1321.8	1440.7	1659.1
30°	1399.8	1273.1	1275.0	1399.8	1567.5
32.5°	1386.2	1228.2	1230.1	1349.1	1464.2
35°	1353.0	1175.6	1173.7	1290.6	1323.8
37.5°	1308.1	1119.1	1119.1	1226.3	1169.8
40°	1253.6	1062.5	1068.4	1142.5	1033.2
42.5°	1187.3	1002.0	1009.9	1031.3	931.9
45°	1115.1	943.6	949.4	871.4	853.9
47.5°	1035.2	883.1	885.1	723.3	828.6
50°	939.7	820.7	813.0	620.0	826.7
52.5°	855.8	752.5	729.2	561.4	750.6
55°	773.9	680.4	629.8	516.7	696.0
57.5°	701.8	586.8	538.1	464.0	684.3
60°	635.6	495.2	458.1	407.5	627.8
62.5°	581.0	426.9	419.2	368.5	569.3
65°	522.5	380.1	378.2	335.4	483.5
67.5°	466.0	348.9	347.0	304.2	368.5
70°	405.5	315.8	311.9	271.0	273.0
72.5°	343.1	278.8	274.9	243.7	226.2
75°	280.7	235.9	233.9	212.5	183.2
77.5°	220.4	187.1	191.1	171.6	134.5
80°	157.9	136.4	140.4	122.9	101.4
82.5°	105.2	89.7	93.6	78.0	68.2
85°	58.5	50.7	52.6	41.0	31.2
87.5°	27.3	23.4	23.4	15.6	9.8
90°	26.4	16.8	15.6	10.8	6.0
92.5°	162.5	115.6	105.4	64.6	23.9
95°	400.0	225.3	206.7	132.1	57.6
97.5°	538.9	247.5	231.0	165.2	99.4
100°	589.3	266.0	251.1	191.5	131.8
102.5°	612.5	284.6	270.6	215.0	159.4
105°	629.7	312.1	300.3	253.2	206.1
107.5°	633.0	352.9	342.0	298.0	254.1
110°	628.1	375.7	365.8	326.1	286.4

TEST NUMBER: P934297

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	628.3	403.2	393.7	355.9	318.1
115°	634.1	444.6	435.9	401.0	366.1
117.5°	645.8	484.7	476.7	445.1	413.4
120°	655.4	508.0	500.6	470.8	441.0
122.5°	669.3	535.7	528.1	498.1	467.9
125°	687.9	571.0	564.2	536.7	509.3
127.5°	706.4	605.1	598.3	570.5	542.8
130°	720.0	627.9	620.5	590.7	560.9
132.5°	731.0	646.5	639.1	609.2	579.4
135°	742.9	668.0	661.2	634.1	607.0
137.5°	761.0	695.6	689.0	662.0	635.1
140°	771.9	714.2	708.0	683.2	658.4
142.5°	781.1	728.0	722.3	699.3	676.5
145°	793.1	748.9	743.9	723.9	704.0
147.5°	810.7	775.3	770.5	751.0	731.6
150°	819.9	789.1	784.7	767.1	749.5
152.5°	825.9	798.1	794.8	781.4	768.1
155°	839.1	817.8	815.4	805.5	795.6
157.5°	852.2	837.6	835.2	825.7	816.1
160°	858.2	846.6	844.8	837.3	829.9
162.5°	864.6	856.2	854.9	849.2	843.6
165°	873.7	870.0	868.7	863.7	858.6
167.5°	880.9	877.7	877.1	874.7	872.4
170°	886.9	886.7	886.2	883.7	881.4
172.5°	887.3	887.3	887.2	886.6	886.2
175°	890.9	892.7	892.7	892.7	892.7
177.5°	891.4	892.7	892.7	892.7	892.7
180°	892.7	892.7	892.7	892.7	892.7

(END OF REPORT)