

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: NEO-RAY

Report Number: P1031076

Luminaire Tested: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031076
REPORT IS A COMBINATION OF REPORTS P993992 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A_3000K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

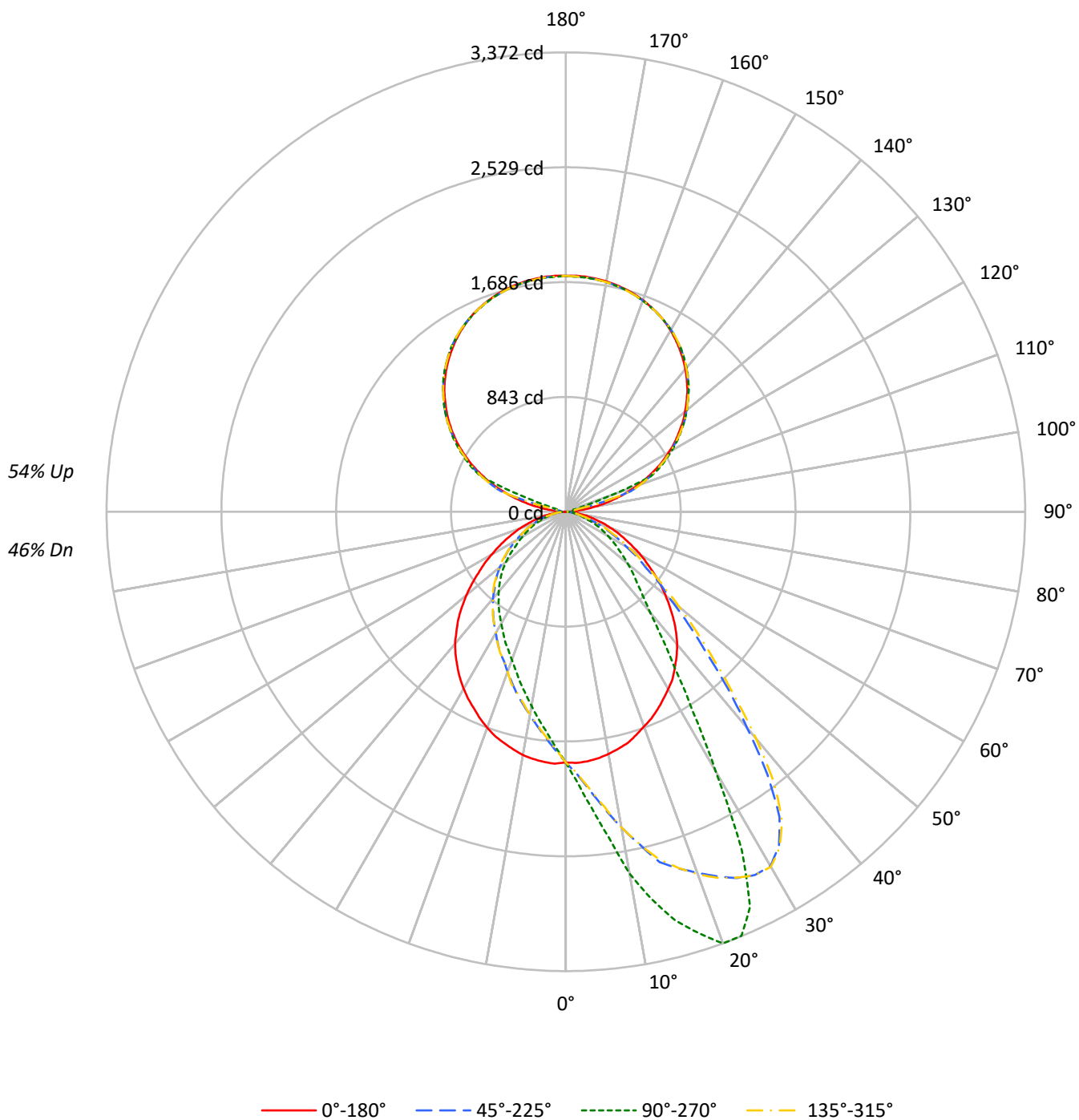
Lumens per Lamp: N/A
Luminaire Lumens: 9864.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
Input Voltage (V):
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53			46
1	98	93	90	86	89	86	83	80	72	70	68	59	58	56	48	47	46			40
2	89	82	76	72	82	76	71	67	64	60	57	53	50	48	43	41	39			35
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	38	36	34			30
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30			26
5	69	58	50	44	63	54	47	42	46	40	36	38	34	31	31	29	26			23
6	64	52	44	39	58	48	41	36	41	36	32	35	31	28	29	26	23			20
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21			18
8	55	43	35	30	50	40	33	29	34	29	25	29	25	22	24	21	19			17
9	51	39	32	27	47	37	30	26	32	26	23	27	23	20	22	19	17			15
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16			14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19807	19807	19807	19807
5°	19822	22812	19873	16924
10°	19647	27538	19732	14782
15°	19445	31253	19445	13034
20°	19045	33712	19153	11563
25°	18754	32028	18718	10550
30°	18415	22191	18376	9560
35°	18006	14248	17925	8814
40°	17498	10061	17411	8071
45°	16613	8052	16589	7349
50°	15525	6735	15474	6503
55°	14302	5551	14187	5513
60°	13101	4588	12971	4689
65°	11693	3671	11768	3974
70°	10392	2550	10672	3213
75°	8810	1892	9168	2471
80°	7014	1255	7611	1853
85°	4995	594	5446	1153

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 26443 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	1.8
10°-20°	565.7	5.7
20°-30°	890.9	9.0
30°-40°	926.4	9.4
40°-50°	792.6	8.0
50°-60°	604.3	6.1
60°-70°	387.1	3.9
70°-80°	185.5	1.9
80°-90°	52.2	0.5
90°-100°	61.1	0.6
100°-110°	295.2	3.0
110°-120°	723.4	7.3
120°-130°	918.4	9.3
130°-140°	981.1	9.9
140°-150°	917.4	9.3
150°-160°	740.0	7.5
160°-170°	477.5	4.8
170°-180°	164.6	1.7
0°-30°	1637.3	16.6
0°-40°	2563.8	26.0
0°-60°	3960.6	40.2
0°-90°	4585.5	46.5
90°-120°	1079.7	10.9
90°-150°	3896.5	39.5
90°-180°	5279.0	53.5
0°-180°	9864.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1840	1840	1840	1840	1840	
5°	1838	2185	1843	1621	1838	174
15°	1757	3105	1757	1295	1757	494
25°	1598	3200	1594	1054	1598	736
35°	1394	1388	1388	859	1394	873
45°	1119	740	1117	676	1119	861
55°	789	465	783	462	789	707
65°	484	268	487	290	484	483
75°	232	113	241	148	232	250
85°	52	27	57	52	52	58
90°	1	39	1	39	1	7
95°	78	49	78	49	78	94
105°	383	57	383	57	383	406
115°	719	756	719	756	719	710
125°	1014	1034	1014	1034	1014	906
135°	1262	1275	1262	1275	1262	972
145°	1456	1470	1456	1470	1456	912
155°	1604	1602	1604	1602	1604	739
165°	1692	1688	1692	1688	1692	478
175°	1732	1725	1732	1725	1732	165
180°	1732	1732	1732	1732	1732	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1844.8	1857.4	1866.9	1873.2	1889.0	1898.4	1906.3	1920.5	1920.5	1923.6	1929.9
5°	1838.5	1865.3	1884.2	1909.4	1942.5	1958.3	1980.3	1999.2	2026.0	2040.2	2054.4
7.5°	1824.4	1862.2	1901.6	1939.4	1988.2	2019.7	2041.8	2090.6	2125.3	2167.8	2200.9
10°	1805.5	1857.4	1907.9	1966.2	2032.3	2079.6	2112.7	2177.3	2243.4	2303.3	2353.7
12.5°	1781.8	1844.8	1917.3	1988.2	2081.2	2128.4	2182.0	2262.3	2356.9	2432.5	2500.2
15°	1756.6	1829.1	1911.0	1997.7	2114.2	2180.4	2257.6	2355.3	2460.8	2569.6	2662.5
17.5°	1717.2	1808.6	1900.0	2026.0	2163.1	2202.5	2268.6	2402.6	2533.3	2631.0	2744.4
20°	1677.8	1780.3	1895.3	2008.7	2156.8	2248.2	2309.6	2451.4	2591.6	2709.8	2818.5
22.5°	1641.6	1748.7	1868.5	2011.8	2150.5	2241.9	2319.1	2467.1	2629.4	2761.8	2895.7
25°	1597.5	1714.1	1846.4	1981.9	2150.5	2219.8	2304.9	2476.6	2648.3	2801.1	2966.6
27.5°	1550.2	1668.4	1799.2	1937.8	2092.2	2194.6	2278.1	2462.4	2672.0	2835.8	3005.9
30°	1503.0	1624.3	1750.3	1874.8	2048.1	2145.8	2241.9	2445.1	2684.6	2872.0	3002.8
32.5°	1457.3	1559.7	1684.2	1805.5	1977.2	2084.3	2193.0	2427.8	2689.3	2846.8	2909.8
35°	1394.3	1501.4	1602.2	1731.4	1904.7	2010.3	2137.9	2426.2	2668.8	2766.5	2735.0
37.5°	1336.0	1425.8	1521.9	1636.9	1814.9	1952.0	2084.3	2385.2	2601.1	2607.4	2429.3
40°	1271.4	1345.4	1425.8	1547.1	1739.3	1874.8	2018.1	2322.2	2478.2	2385.2	2071.7
42.5°	1197.3	1263.5	1326.5	1444.7	1654.2	1805.5	1959.9	2243.4	2300.1	2085.9	1759.8
45°	1118.6	1172.1	1230.4	1354.9	1564.4	1714.1	1868.5	2122.1	2063.8	1761.3	1451.0
47.5°	1036.6	1082.3	1139.0	1252.5	1468.3	1621.1	1767.6	1948.8	1800.7	1476.2	1216.2
50°	954.7	991.0	1046.1	1162.7	1370.6	1509.3	1644.8	1762.9	1555.0	1266.7	1005.1
52.5°	874.4	902.7	959.4	1058.7	1260.4	1392.7	1490.4	1536.1	1324.9	1046.1	872.8
55°	789.3	820.8	858.6	959.4	1159.5	1257.2	1321.8	1320.2	1102.8	887.0	721.6
57.5°	707.4	735.7	768.8	869.6	1031.9	1098.1	1153.2	1126.4	920.1	726.3	619.1
60°	634.9	650.7	686.9	772.0	894.9	951.6	983.1	937.4	751.5	612.8	512.0
62.5°	556.1	571.9	601.8	682.2	757.8	787.7	814.5	756.2	620.7	499.4	438.0
65°	483.7	504.1	523.0	587.6	628.6	664.8	661.7	612.8	485.2	406.5	356.1
67.5°	420.6	428.5	444.3	483.7	502.6	529.3	530.9	475.8	390.7	330.8	300.9
70°	352.9	360.8	371.8	390.7	403.3	409.6	406.5	357.6	294.6	258.4	231.6
72.5°	294.6	293.0	300.9	300.9	313.5	311.9	302.5	264.7	223.7	193.8	178.0
75°	231.6	233.2	234.7	231.6	226.9	220.6	212.7	184.3	157.5	143.4	129.2
77.5°	181.2	178.0	179.6	168.6	162.3	156.0	144.9	130.8	108.7	105.6	99.3
80°	129.2	127.6	126.0	121.3	107.1	100.8	93.0	85.1	80.3	77.2	75.6
82.5°	86.6	86.6	83.5	74.0	66.2	61.4	59.9	56.7	52.0	52.0	50.4
85°	52.0	50.4	47.3	37.8	33.1	33.1	33.1	33.1	29.9	29.9	28.4
87.5°	20.5	18.9	14.2	14.2	12.6	12.6	12.6	11.0	11.0	9.5	9.5
90°	1.3	4.2	7.0	9.9	12.8	14.2	16.1	19.8	23.5	27.2	30.9
92.5°	29.6	27.9	26.2	24.5	22.8	21.9	23.2	25.7	28.3	30.8	33.4
95°	78.5	66.8	55.0	43.3	31.6	25.7	27.3	30.4	33.6	36.7	39.9
97.5°	142.8	134.8	126.8	118.8	110.8	106.8	99.5	84.9	70.4	55.8	41.2
100°	217.4	223.1	228.8	234.5	240.2	243.1	220.8	176.2	131.7	87.1	42.5
102.5°	302.3	306.0	309.7	313.4	317.1	319.0	294.1	244.4	194.7	144.9	95.2
105°	383.3	386.5	389.6	392.8	395.9	397.5	384.6	358.9	333.2	307.4	281.7
107.5°	469.5	472.1	474.7	477.2	479.8	481.1	483.2	487.5	491.8	496.1	500.4
110°	555.7	558.0	560.3	562.6	564.9	566.0	567.6	570.7	573.9	577.0	580.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	638.0	640.0	642.0	644.1	646.1	647.1	648.7	651.8	654.9	658.1	661.2
115°	719.1	720.8	722.5	724.2	725.9	726.8	728.1	730.7	733.2	735.8	738.4
117.5°	798.8	800.8	802.8	804.8	806.8	807.8	808.5	810.0	811.4	812.9	814.3
120°	872.2	874.8	877.3	879.9	882.4	883.7	884.1	885.0	885.9	886.7	887.6
122.5°	946.8	948.8	950.8	952.8	954.8	955.8	956.4	957.5	958.6	959.8	960.9
125°	1013.7	1016.0	1018.3	1020.6	1022.9	1024.0	1024.6	1025.7	1026.8	1028.0	1029.1
127.5°	1080.6	1082.9	1085.2	1087.5	1089.8	1090.9	1091.6	1093.0	1094.5	1095.9	1097.3
130°	1142.3	1144.6	1146.9	1149.2	1151.5	1152.6	1153.2	1154.3	1155.4	1156.6	1157.7
132.5°	1201.5	1203.8	1206.1	1208.4	1210.7	1211.8	1212.2	1213.1	1213.9	1214.8	1215.6
135°	1261.9	1263.6	1265.4	1267.1	1268.8	1269.7	1270.3	1271.4	1272.5	1273.7	1274.8
137.5°	1313.4	1315.7	1318.0	1320.3	1322.6	1323.7	1324.0	1324.6	1325.1	1325.7	1326.3
140°	1364.9	1366.6	1368.3	1370.0	1371.7	1372.6	1373.0	1373.9	1374.7	1375.6	1376.4
142.5°	1412.4	1414.1	1415.9	1417.6	1419.3	1420.2	1420.6	1421.5	1422.3	1423.2	1424.0
145°	1456.2	1458.2	1460.2	1462.2	1464.2	1465.2	1465.5	1466.1	1466.6	1467.2	1467.8
147.5°	1498.6	1500.0	1501.5	1502.9	1504.4	1505.1	1505.4	1505.9	1506.5	1507.0	1507.6
150°	1537.2	1538.1	1538.9	1539.8	1540.7	1541.1	1541.4	1542.0	1542.5	1543.1	1543.7
152.5°	1572.0	1572.3	1572.5	1572.8	1573.1	1573.2	1573.3	1573.6	1573.9	1574.2	1574.5
155°	1604.1	1603.5	1602.9	1602.4	1601.8	1601.5	1601.6	1601.9	1602.2	1602.5	1602.8
157.5°	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.7	1629.4	1629.1	1628.9	1628.6
160°	1653.0	1652.7	1652.4	1652.1	1651.8	1651.7	1651.6	1651.3	1651.0	1650.7	1650.4
162.5°	1674.9	1674.0	1673.2	1672.3	1671.4	1671.0	1670.9	1670.6	1670.3	1670.0	1669.7
165°	1691.6	1690.7	1689.9	1689.0	1688.1	1687.7	1687.6	1687.3	1687.0	1686.7	1686.4
167.5°	1705.7	1704.6	1703.4	1702.3	1701.2	1700.6	1700.6	1700.6	1700.6	1700.6	1700.6
170°	1717.3	1716.2	1715.0	1713.9	1712.8	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2
172.5°	1725.0	1723.6	1722.2	1720.7	1719.3	1718.6	1718.7	1719.0	1719.3	1719.6	1719.9
175°	1731.5	1730.1	1728.6	1727.2	1725.7	1725.0	1725.1	1725.4	1725.7	1726.0	1726.3
177.5°	1734.0	1732.6	1731.2	1729.7	1728.3	1727.6	1727.7	1728.0	1728.3	1728.6	1728.9
180°	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1942.5	1942.5	1956.7	1970.9	1963.0	1967.7	1985.1	1978.8	1991.4	1989.8	1994.5
5°	2089.0	2106.4	2120.5	2150.5	2155.2	2150.5	2180.4	2188.3	2202.5	2185.1	2193.0
7.5°	2254.5	2290.7	2325.4	2369.5	2383.6	2386.8	2402.6	2424.6	2443.5	2408.9	2426.2
10°	2415.2	2470.3	2541.2	2580.6	2615.2	2627.8	2640.4	2654.6	2676.7	2697.2	2681.4
12.5°	2588.5	2668.8	2736.5	2807.4	2850.0	2845.3	2881.5	2890.9	2908.3	2913.0	2919.3
15°	2730.2	2843.7	2886.2	2991.8	3001.2	3032.7	3073.7	3109.9	3114.7	3105.2	3105.2
17.5°	2865.7	2963.4	3039.0	3124.1	3141.4	3168.2	3220.2	3237.5	3243.8	3242.3	3242.3
20°	2976.0	3040.6	3168.2	3239.1	3267.5	3302.1	3338.4	3360.4	3365.2	3371.5	3362.0
22.5°	3048.5	3146.2	3250.1	3308.4	3332.1	3344.7	3368.3	3374.6	3366.7	3368.3	3369.9
25°	3105.2	3201.3	3264.3	3280.1	3278.5	3262.7	3245.4	3215.5	3212.3	3199.7	3174.5
27.5°	3121.0	3157.2	3149.3	3084.7	3020.1	3013.8	2909.8	2853.1	2788.5	2798.0	2761.8
30°	3035.9	2988.6	2876.8	2712.9	2645.2	2534.9	2418.3	2297.0	2249.7	2197.7	2293.8
32.5°	2827.9	2659.4	2460.8	2248.2	2134.7	2037.1	1912.6	1824.4	1774.0	1731.4	1813.3
35°	2514.4	2251.3	1988.2	1786.6	1693.6	1605.4	1488.8	1444.7	1381.7	1388.0	1395.8
37.5°	2111.1	1821.2	1622.7	1424.2	1362.8	1326.5	1241.5	1173.7	1151.7	1145.3	1145.3
40°	1733.0	1495.1	1318.6	1162.7	1115.4	1085.5	1017.7	986.2	962.6	956.3	964.2
42.5°	1433.7	1230.4	1093.4	989.4	956.3	918.5	890.1	850.7	846.0	835.0	849.2
45°	1203.6	1027.2	924.8	849.2	820.8	806.6	775.1	751.5	742.0	740.5	751.5
47.5°	1020.9	883.8	794.0	746.8	724.7	710.5	683.7	674.3	664.8	668.0	663.3
50°	857.0	754.6	696.3	653.8	639.6	625.5	608.1	598.7	593.9	593.9	592.4
52.5°	735.7	650.7	612.8	573.5	567.2	559.3	540.4	534.1	526.2	524.6	530.9
55°	630.2	571.9	534.1	510.4	504.1	488.4	480.5	472.6	467.9	464.8	466.3
57.5°	538.8	494.7	469.5	449.0	438.0	431.7	417.5	415.9	412.8	412.8	411.2
60°	463.2	431.7	401.7	389.1	381.3	373.4	371.8	362.4	357.6	360.8	359.2
62.5°	392.3	367.1	349.7	335.6	330.8	324.5	319.8	316.7	311.9	313.5	313.5
65°	327.7	307.2	294.6	282.0	280.4	274.1	272.6	269.4	269.4	267.8	271.0
67.5°	269.4	255.2	244.2	236.3	231.6	233.2	226.9	222.1	222.1	220.6	225.3
70°	214.3	206.4	195.4	185.9	179.6	179.6	171.7	170.1	170.1	170.1	168.6
72.5°	165.4	151.2	146.5	143.4	143.4	143.4	140.2	140.2	138.6	140.2	138.6
75°	122.9	121.3	118.2	116.6	116.6	115.0	113.4	113.4	113.4	113.4	113.4
77.5°	96.1	96.1	93.0	91.4	91.4	91.4	89.8	89.8	88.2	88.2	88.2
80°	70.9	70.9	67.7	67.7	67.7	66.2	66.2	66.2	67.7	66.2	66.2
82.5°	48.8	48.8	47.3	48.8	47.3	45.7	45.7	45.7	44.1	45.7	45.7
85°	28.4	28.4	26.8	25.2	26.8	26.8	25.2	26.8	25.2	26.8	25.2
87.5°	11.0	9.5	9.5	9.5	7.9	9.5	7.9	7.9	9.5	7.9	9.5
90°	32.0	33.2	34.3	35.4	36.0	36.3	36.9	37.4	38.0	38.6	38.0
92.5°	35.4	37.4	39.5	41.5	42.5	42.6	42.9	43.2	43.4	43.7	43.4
95°	41.9	43.9	45.9	47.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
97.5°	43.5	45.8	48.1	50.4	51.5	51.6	51.9	52.2	52.4	52.7	52.4
100°	44.8	47.0	49.3	51.6	52.7	52.8	53.1	53.4	53.7	54.0	53.7
102.5°	85.8	76.3	66.9	57.4	52.7	53.0	53.6	54.1	54.7	55.3	54.7
105°	231.1	180.5	129.9	79.3	54.0	54.3	54.9	55.4	56.0	56.6	56.0
107.5°	456.4	412.4	368.3	324.3	302.3	283.6	246.1	208.7	171.2	133.8	171.2
110°	570.8	561.3	551.9	542.4	537.7	517.3	476.4	435.5	394.7	353.8	394.7

TEST NUMBER: P1031076

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	663.8	666.4	668.9	671.5	672.8	672.5	671.9	671.4	670.8	670.2	670.8
115°	741.2	744.1	746.9	749.8	751.2	751.8	752.9	754.1	755.2	756.4	755.2
117.5°	816.6	818.9	821.2	823.5	824.6	824.7	825.0	825.3	825.6	825.9	825.6
120°	889.9	892.2	894.5	896.8	897.9	897.9	897.9	897.9	897.9	897.9	897.9
122.5°	962.3	963.8	965.2	966.7	967.4	967.5	967.8	968.1	968.3	968.6	968.3
125°	1029.7	1030.3	1030.8	1031.4	1031.7	1032.0	1032.6	1033.1	1033.7	1034.3	1033.7
127.5°	1098.1	1099.0	1099.8	1100.7	1101.1	1100.8	1100.3	1099.7	1099.2	1098.6	1099.2
130°	1158.9	1160.0	1161.2	1162.3	1162.9	1162.6	1162.0	1161.5	1160.9	1160.3	1160.9
132.5°	1216.8	1217.9	1219.1	1220.2	1220.8	1220.4	1219.5	1218.6	1217.8	1216.9	1217.8
135°	1275.7	1276.5	1277.4	1278.3	1278.7	1278.3	1277.4	1276.5	1275.7	1274.8	1275.7
137.5°	1327.7	1329.1	1330.6	1332.0	1332.7	1332.4	1331.8	1331.3	1330.7	1330.1	1330.7
140°	1377.6	1378.7	1379.9	1381.0	1381.6	1381.3	1380.7	1380.2	1379.6	1379.0	1379.6
142.5°	1424.9	1425.7	1426.6	1427.5	1427.9	1427.5	1426.6	1425.7	1424.9	1424.0	1424.9
145°	1468.4	1468.9	1469.5	1470.0	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
147.5°	1508.2	1508.8	1509.3	1509.9	1510.2	1509.5	1508.1	1506.6	1505.2	1503.8	1505.2
150°	1544.3	1544.8	1545.4	1545.9	1546.2	1545.8	1544.9	1544.1	1543.2	1542.4	1543.2
152.5°	1575.7	1576.8	1578.0	1579.1	1579.7	1579.0	1577.5	1576.1	1574.6	1573.2	1574.6
155°	1604.2	1605.7	1607.1	1608.6	1609.3	1608.4	1606.7	1605.0	1603.2	1601.5	1603.2
157.5°	1630.3	1632.0	1633.7	1635.4	1636.3	1635.2	1632.9	1630.6	1628.3	1626.0	1628.3
160°	1652.1	1653.8	1655.5	1657.2	1658.1	1657.1	1655.1	1653.1	1651.1	1649.1	1651.1
162.5°	1671.7	1673.7	1675.7	1677.7	1678.7	1677.8	1676.1	1674.4	1672.7	1671.0	1672.7
165°	1688.7	1691.0	1693.3	1695.6	1696.7	1695.7	1693.7	1691.7	1689.7	1687.7	1689.7
167.5°	1702.9	1705.2	1707.5	1709.8	1710.9	1709.8	1707.5	1705.2	1702.9	1700.6	1702.9
170°	1714.5	1716.8	1719.1	1721.4	1722.5	1721.4	1719.1	1716.8	1714.5	1712.2	1714.5
172.5°	1722.2	1724.5	1726.8	1729.1	1730.2	1728.9	1726.3	1723.8	1721.2	1718.6	1721.2
175°	1728.3	1730.3	1732.3	1734.3	1735.3	1734.2	1731.9	1729.6	1727.3	1725.0	1727.3
177.5°	1731.2	1733.5	1735.8	1738.1	1739.2	1737.8	1734.9	1732.0	1729.2	1726.3	1729.2
180°	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1986.6	1977.2	1970.9	1966.2	1961.4	1975.6	1956.7	1936.2	1922.0	1912.6	1909.4
5°	2194.6	2174.1	2156.8	2142.6	2145.8	2145.8	2112.7	2076.4	2044.9	2027.6	2008.7
7.5°	2435.6	2413.6	2378.9	2371.0	2364.7	2325.4	2292.3	2226.1	2186.7	2147.3	2112.7
10°	2675.1	2646.7	2613.7	2602.6	2586.9	2538.0	2487.6	2402.6	2353.7	2281.2	2235.6
12.5°	2898.8	2864.2	2831.1	2823.2	2799.6	2757.0	2670.4	2582.2	2498.7	2421.5	2341.1
15°	3086.3	3076.8	3026.4	2994.9	2942.9	2884.6	2865.7	2746.0	2640.4	2560.1	2415.2
17.5°	3243.8	3199.7	3152.5	3132.0	3111.5	3043.8	2976.0	2853.1	2739.7	2621.5	2528.6
20°	3369.9	3321.0	3288.0	3258.0	3248.6	3171.4	3064.2	2955.5	2831.1	2698.7	2577.4
22.5°	3376.2	3369.9	3347.8	3330.5	3311.6	3261.2	3176.1	3040.6	2908.3	2763.3	2604.2
25°	3245.4	3236.0	3299.0	3283.2	3295.8	3276.9	3231.2	3117.8	2963.4	2793.3	2632.6
27.5°	2851.6	2947.7	3046.9	3081.6	3105.2	3172.9	3195.0	3132.0	3007.5	2826.3	2646.7
30°	2315.9	2443.5	2604.2	2690.9	2757.0	2883.1	3046.9	3067.4	3009.1	2864.2	2643.6
32.5°	1818.1	1934.6	2063.8	2166.2	2254.5	2512.8	2733.4	2892.5	2920.9	2845.3	2651.5
35°	1465.2	1515.6	1638.5	1736.1	1855.9	2076.4	2336.4	2593.2	2766.5	2775.9	2627.8
37.5°	1208.4	1235.1	1342.3	1397.4	1468.3	1662.1	1904.7	2240.3	2509.7	2637.3	2561.7
40°	1000.4	1061.8	1123.3	1154.8	1205.2	1339.1	1572.3	1835.4	2169.4	2405.7	2459.3
42.5°	868.1	894.9	934.2	978.4	1009.9	1126.4	1282.4	1523.5	1824.4	2153.6	2301.7
45°	765.7	775.1	816.1	844.4	877.5	959.4	1069.7	1271.4	1536.1	1860.6	2112.7
47.5°	680.6	699.5	721.6	738.9	760.9	824.0	918.5	1065.0	1298.2	1588.0	1859.0
50°	605.0	616.0	644.4	652.2	668.0	712.1	784.6	896.4	1088.6	1320.2	1600.7
52.5°	534.1	554.6	565.6	576.6	590.8	627.0	674.3	765.7	910.6	1128.0	1365.9
55°	478.9	485.2	501.0	510.4	521.5	546.7	587.6	655.4	768.8	942.1	1167.4
57.5°	425.4	425.4	441.1	449.0	460.0	478.9	515.2	567.2	649.1	778.3	984.7
60°	368.7	370.2	382.8	392.3	395.4	414.3	444.3	485.2	548.3	642.8	811.4
62.5°	318.2	326.1	332.4	335.6	346.6	357.6	382.8	411.2	455.3	538.8	658.5
65°	275.7	277.3	282.0	285.2	289.9	302.5	321.4	340.3	378.1	439.5	537.2
67.5°	226.9	233.2	239.5	239.5	244.2	250.5	269.4	285.2	313.5	349.7	415.9
70°	170.1	173.3	182.8	187.5	193.8	204.8	214.3	223.7	245.8	272.6	323.0
72.5°	141.8	141.8	144.9	146.5	146.5	154.4	168.6	178.0	189.1	208.0	242.6
75°	113.4	113.4	118.2	116.6	119.7	122.9	124.5	130.8	137.1	151.2	171.7
77.5°	89.8	91.4	91.4	93.0	93.0	94.5	96.1	99.3	102.4	110.3	119.7
80°	66.2	67.7	67.7	69.3	69.3	70.9	72.5	74.0	77.2	80.3	85.1
82.5°	45.7	47.3	47.3	48.8	47.3	48.8	50.4	50.4	52.0	55.1	56.7
85°	26.8	26.8	28.4	26.8	26.8	26.8	28.4	28.4	29.9	34.7	34.7
87.5°	7.9	9.5	7.9	9.5	9.5	9.5	9.5	11.0	11.0	12.6	14.2
90°	37.4	36.9	36.3	36.0	35.4	34.3	33.2	32.0	30.9	27.2	23.5
92.5°	43.2	42.9	42.6	42.5	41.5	39.5	37.4	35.4	33.4	30.8	28.3
95°	48.9	48.9	48.9	48.9	47.9	45.9	43.9	41.9	39.9	36.7	33.6
97.5°	52.2	51.9	51.6	51.5	50.4	48.1	45.8	43.5	41.2	55.8	70.4
100°	53.4	53.1	52.8	52.7	51.6	49.3	47.0	44.8	42.5	87.1	131.7
102.5°	54.1	53.6	53.0	52.7	57.4	66.9	76.3	85.8	95.2	144.9	194.7
105°	55.4	54.9	54.3	54.0	79.3	129.9	180.5	231.1	281.7	307.4	333.2
107.5°	208.7	246.1	283.6	302.3	324.3	368.3	412.4	456.4	500.4	496.1	491.8
110°	435.5	476.4	517.3	537.7	542.4	551.9	561.3	570.8	580.2	577.0	573.9

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CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	671.4	671.9	672.5	672.8	671.5	668.9	666.4	663.8	661.2	658.1	654.9
115°	754.1	752.9	751.8	751.2	749.8	746.9	744.1	741.2	738.4	735.8	733.2
117.5°	825.3	825.0	824.7	824.6	823.5	821.2	818.9	816.6	814.3	812.9	811.4
120°	897.9	897.9	897.9	897.9	896.8	894.5	892.2	889.9	887.6	886.7	885.9
122.5°	968.1	967.8	967.5	967.4	966.7	965.2	963.8	962.3	960.9	959.8	958.6
125°	1033.1	1032.6	1032.0	1031.7	1031.4	1030.8	1030.3	1029.7	1029.1	1028.0	1026.8
127.5°	1099.7	1100.3	1100.8	1101.1	1100.7	1099.8	1099.0	1098.1	1097.3	1095.9	1094.5
130°	1161.5	1162.0	1162.6	1162.9	1162.3	1161.2	1160.0	1158.9	1157.7	1156.6	1155.4
132.5°	1218.6	1219.5	1220.4	1220.8	1220.2	1219.1	1217.9	1216.8	1215.6	1214.8	1213.9
135°	1276.5	1277.4	1278.3	1278.7	1278.3	1277.4	1276.5	1275.7	1274.8	1273.7	1272.5
137.5°	1331.3	1331.8	1332.4	1332.7	1332.0	1330.6	1329.1	1327.7	1326.3	1325.7	1325.1
140°	1380.2	1380.7	1381.3	1381.6	1381.0	1379.9	1378.7	1377.6	1376.4	1375.6	1374.7
142.5°	1425.7	1426.6	1427.5	1427.9	1427.5	1426.6	1425.7	1424.9	1424.0	1423.2	1422.3
145°	1470.3	1470.3	1470.3	1470.3	1470.0	1469.5	1468.9	1468.4	1467.8	1467.2	1466.6
147.5°	1506.6	1508.1	1509.5	1510.2	1509.9	1509.3	1508.8	1508.2	1507.6	1507.0	1506.5
150°	1544.1	1544.9	1545.8	1546.2	1545.9	1545.4	1544.8	1544.3	1543.7	1543.1	1542.5
152.5°	1576.1	1577.5	1579.0	1579.7	1579.1	1578.0	1576.8	1575.7	1574.5	1574.2	1573.9
155°	1605.0	1606.7	1608.4	1609.3	1608.6	1607.1	1605.7	1604.2	1602.8	1602.5	1602.2
157.5°	1630.6	1632.9	1635.2	1636.3	1635.4	1633.7	1632.0	1630.3	1628.6	1628.9	1629.1
160°	1653.1	1655.1	1657.1	1658.1	1657.2	1655.5	1653.8	1652.1	1650.4	1650.7	1651.0
162.5°	1674.4	1676.1	1677.8	1678.7	1677.7	1675.7	1673.7	1671.7	1669.7	1670.0	1670.3
165°	1691.7	1693.7	1695.7	1696.7	1695.6	1693.3	1691.0	1688.7	1686.4	1686.7	1687.0
167.5°	1705.2	1707.5	1709.8	1710.9	1709.8	1707.5	1705.2	1702.9	1700.6	1700.6	1700.6
170°	1716.8	1719.1	1721.4	1722.5	1721.4	1719.1	1716.8	1714.5	1712.2	1712.2	1712.2
172.5°	1723.8	1726.3	1728.9	1730.2	1729.1	1726.8	1724.5	1722.2	1719.9	1719.6	1719.3
175°	1729.6	1731.9	1734.2	1735.3	1734.3	1732.3	1730.3	1728.3	1726.3	1726.0	1725.7
177.5°	1732.0	1734.9	1737.8	1739.2	1738.1	1735.8	1733.5	1731.2	1728.9	1728.6	1728.3
180°	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5

TEST NUMBER: P1031076

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1904.7	1896.8	1889.0	1889.0	1871.6	1855.9	1848.0	1851.1	1841.7	1829.1	1816.5
5°	1988.2	1956.7	1950.4	1933.1	1909.4	1876.4	1859.0	1843.3	1824.4	1799.2	1775.5
7.5°	2065.4	2024.4	2002.4	1985.1	1939.4	1893.7	1855.9	1830.7	1797.6	1759.8	1731.4
10°	2166.2	2090.6	2067.0	2027.6	1963.0	1898.4	1854.3	1813.3	1767.6	1723.5	1685.7
12.5°	2246.6	2159.9	2115.8	2076.4	1992.9	1911.0	1837.0	1786.6	1731.4	1682.6	1633.7
15°	2338.0	2240.3	2163.1	2115.8	2010.3	1911.0	1827.5	1756.6	1695.2	1635.3	1592.8
17.5°	2382.1	2259.2	2224.5	2156.8	2004.0	1904.7	1802.3	1726.7	1652.6	1583.3	1532.9
20°	2451.4	2308.0	2221.4	2175.7	2040.2	1893.7	1774.0	1687.3	1610.1	1536.1	1482.5
22.5°	2456.1	2300.1	2243.4	2156.8	1989.8	1860.6	1748.7	1643.2	1553.4	1484.1	1428.9
25°	2445.1	2286.0	2207.2	2137.9	1999.2	1841.7	1698.3	1594.4	1506.1	1425.8	1361.2
27.5°	2440.4	2245.0	2171.0	2101.6	1945.7	1786.6	1668.4	1550.2	1449.4	1378.5	1312.3
30°	2434.1	2200.9	2111.1	2030.7	1887.4	1744.0	1602.2	1499.8	1403.7	1313.9	1247.8
32.5°	2393.1	2141.0	2049.7	1964.6	1810.2	1666.8	1555.0	1446.3	1342.3	1258.8	1198.9
35°	2380.5	2085.9	1966.2	1874.8	1723.5	1595.9	1477.8	1388.0	1290.3	1206.8	1135.9
37.5°	2344.3	2029.2	1900.0	1783.4	1625.9	1504.6	1417.9	1328.1	1233.6	1143.8	1087.1
40°	2281.2	1963.0	1816.5	1696.8	1534.5	1411.6	1331.3	1265.1	1172.1	1091.8	1022.5
42.5°	2188.3	1895.3	1737.7	1611.7	1432.1	1317.1	1250.9	1187.9	1109.1	1025.6	968.9
45°	2081.2	1805.5	1658.9	1518.7	1336.0	1224.1	1154.8	1117.0	1044.5	973.6	907.5
47.5°	1934.6	1712.5	1567.6	1422.6	1236.7	1128.0	1072.9	1035.1	984.7	907.5	853.9
50°	1750.3	1592.8	1455.7	1326.5	1139.0	1035.1	979.9	951.6	909.0	853.9	801.9
52.5°	1545.5	1454.1	1340.7	1221.0	1039.8	942.1	891.7	869.6	838.1	786.1	742.0
55°	1339.1	1299.7	1222.5	1104.4	935.8	855.5	811.4	783.0	759.4	721.6	683.7
57.5°	1154.8	1135.9	1082.3	991.0	849.2	765.7	727.9	709.0	690.0	661.7	623.9
60°	964.2	984.7	929.5	883.8	754.6	682.2	649.1	628.6	619.1	593.9	570.3
62.5°	798.8	817.7	786.1	751.5	660.1	595.5	575.0	556.1	549.8	527.8	504.1
65°	649.1	672.7	649.1	630.2	575.0	521.5	496.3	486.8	480.5	466.3	447.4
67.5°	516.7	540.4	529.3	505.7	488.4	444.3	430.1	420.6	417.5	406.5	390.7
70°	389.1	422.2	425.4	411.2	395.4	375.0	365.5	362.4	354.5	345.0	335.6
72.5°	280.4	318.2	319.8	319.8	310.4	310.4	300.9	296.2	296.2	286.7	275.7
75°	206.4	231.6	234.7	237.9	242.6	247.3	241.0	241.0	239.5	230.0	225.3
77.5°	137.1	159.1	167.0	178.0	184.3	184.3	187.5	190.6	187.5	182.8	179.6
80°	88.2	104.0	113.4	119.7	129.2	133.9	138.6	140.2	137.1	135.5	130.8
82.5°	58.3	63.0	67.7	75.6	86.6	94.5	94.5	93.0	96.1	94.5	93.0
85°	33.1	36.2	37.8	39.4	45.7	53.6	55.1	56.7	59.9	56.7	53.6
87.5°	12.6	14.2	14.2	14.2	17.3	18.9	23.6	29.9	28.4	25.2	25.2
90°	19.8	16.1	14.2	12.8	9.9	7.0	4.2	1.3	4.2	7.0	9.9
92.5°	25.7	23.2	21.9	22.8	24.5	26.2	27.9	29.6	27.9	26.2	24.5
95°	30.4	27.3	25.7	31.6	43.3	55.0	66.8	78.5	66.8	55.0	43.3
97.5°	84.9	99.5	106.8	110.8	118.8	126.8	134.8	142.8	134.8	126.8	118.8
100°	176.2	220.8	243.1	240.2	234.5	228.8	223.1	217.4	223.1	228.8	234.5
102.5°	244.4	294.1	319.0	317.1	313.4	309.7	306.0	302.3	306.0	309.7	313.4
105°	358.9	384.6	397.5	395.9	392.8	389.6	386.5	383.3	386.5	389.6	392.8
107.5°	487.5	483.2	481.1	479.8	477.2	474.7	472.1	469.5	472.1	474.7	477.2
110°	570.7	567.6	566.0	564.9	562.6	560.3	558.0	555.7	558.0	560.3	562.6

TEST NUMBER: P1031076

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	651.8	648.7	647.1	646.1	644.1	642.0	640.0	638.0	640.0	642.0	644.1
115°	730.7	728.1	726.8	725.9	724.2	722.5	720.8	719.1	720.8	722.5	724.2
117.5°	810.0	808.5	807.8	806.8	804.8	802.8	800.8	798.8	800.8	802.8	804.8
120°	885.0	884.1	883.7	882.4	879.9	877.3	874.8	872.2	874.8	877.3	879.9
122.5°	957.5	956.4	955.8	954.8	952.8	950.8	948.8	946.8	948.8	950.8	952.8
125°	1025.7	1024.6	1024.0	1022.9	1020.6	1018.3	1016.0	1013.7	1016.0	1018.3	1020.6
127.5°	1093.0	1091.6	1090.9	1089.8	1087.5	1085.2	1082.9	1080.6	1082.9	1085.2	1087.5
130°	1154.3	1153.2	1152.6	1151.5	1149.2	1146.9	1144.6	1142.3	1144.6	1146.9	1149.2
132.5°	1213.1	1212.2	1211.8	1210.7	1208.4	1206.1	1203.8	1201.5	1203.8	1206.1	1208.4
135°	1271.4	1270.3	1269.7	1268.8	1267.1	1265.4	1263.6	1261.9	1263.6	1265.4	1267.1
137.5°	1324.6	1324.0	1323.7	1322.6	1320.3	1318.0	1315.7	1313.4	1315.7	1318.0	1320.3
140°	1373.9	1373.0	1372.6	1371.7	1370.0	1368.3	1366.6	1364.9	1366.6	1368.3	1370.0
142.5°	1421.5	1420.6	1420.2	1419.3	1417.6	1415.9	1414.1	1412.4	1414.1	1415.9	1417.6
145°	1466.1	1465.5	1465.2	1464.2	1462.2	1460.2	1458.2	1456.2	1458.2	1460.2	1462.2
147.5°	1505.9	1505.4	1505.1	1504.4	1502.9	1501.5	1500.0	1498.6	1500.0	1501.5	1502.9
150°	1542.0	1541.4	1541.1	1540.7	1539.8	1538.9	1538.1	1537.2	1538.1	1538.9	1539.8
152.5°	1573.6	1573.3	1573.2	1573.1	1572.8	1572.5	1572.3	1572.0	1572.3	1572.5	1572.8
155°	1601.9	1601.6	1601.5	1601.8	1602.4	1602.9	1603.5	1604.1	1603.5	1602.9	1602.4
157.5°	1629.4	1629.7	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8
160°	1651.3	1651.6	1651.7	1651.8	1652.1	1652.4	1652.7	1653.0	1652.7	1652.4	1652.1
162.5°	1670.6	1670.9	1671.0	1671.4	1672.3	1673.2	1674.0	1674.9	1674.0	1673.2	1672.3
165°	1687.3	1687.6	1687.7	1688.1	1689.0	1689.9	1690.7	1691.6	1690.7	1689.9	1689.0
167.5°	1700.6	1700.6	1700.6	1701.2	1702.3	1703.4	1704.6	1705.7	1704.6	1703.4	1702.3
170°	1712.2	1712.2	1712.2	1712.8	1713.9	1715.0	1716.2	1717.3	1716.2	1715.0	1713.9
172.5°	1719.0	1718.7	1718.6	1719.3	1720.7	1722.2	1723.6	1725.0	1723.6	1722.2	1720.7
175°	1725.4	1725.1	1725.0	1725.7	1727.2	1728.6	1730.1	1731.5	1730.1	1728.6	1727.2
177.5°	1728.0	1727.7	1727.6	1728.3	1729.7	1731.2	1732.6	1734.0	1732.6	1731.2	1729.7
180°	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5

TEST NUMBER: P1031076

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1816.5	1808.6	1805.5	1797.6	1778.7	1766.1	1751.9	1742.4	1744.0	1736.1	1740.9
5°	1759.8	1758.2	1747.2	1731.4	1704.6	1690.5	1665.2	1652.6	1646.3	1647.9	1638.5
7.5°	1712.5	1698.3	1690.5	1665.2	1640.0	1610.1	1589.6	1578.6	1569.1	1559.7	1553.4
10°	1658.9	1646.3	1633.7	1607.0	1572.3	1543.9	1515.6	1504.6	1490.4	1484.1	1479.3
12.5°	1602.2	1594.4	1578.6	1547.1	1507.7	1480.9	1447.8	1441.5	1422.6	1410.0	1406.9
15°	1550.2	1545.5	1517.2	1480.9	1441.5	1414.7	1386.4	1367.5	1336.0	1342.3	1331.3
17.5°	1495.1	1474.6	1457.3	1408.4	1389.5	1348.6	1315.5	1306.0	1284.0	1269.8	1255.6
20°	1433.7	1421.1	1399.0	1367.5	1321.8	1274.5	1249.3	1233.6	1221.0	1198.9	1192.6
22.5°	1375.4	1359.6	1340.7	1299.7	1260.4	1221.0	1186.3	1172.1	1156.4	1140.6	1131.2
25°	1329.7	1306.0	1285.6	1235.1	1195.8	1162.7	1140.6	1117.0	1094.9	1085.5	1082.3
27.5°	1258.8	1244.6	1224.1	1176.9	1140.6	1104.4	1083.9	1068.2	1044.5	1033.5	1024.0
30°	1213.1	1184.7	1161.1	1123.3	1087.1	1047.7	1028.8	1009.9	995.7	981.5	970.5
32.5°	1151.7	1129.6	1110.7	1072.9	1036.6	1000.4	979.9	951.6	943.7	932.7	920.1
35°	1091.8	1077.6	1057.1	1016.2	976.8	951.6	929.5	902.7	893.3	885.4	874.4
37.5°	1035.1	1014.6	1000.4	961.0	926.4	896.4	879.1	857.0	850.7	841.3	833.4
40°	986.2	965.7	951.6	912.2	875.9	844.4	833.4	811.4	801.9	790.9	786.1
42.5°	931.1	913.8	894.9	866.5	828.7	797.2	775.1	762.5	749.9	745.2	735.7
45°	872.8	857.0	842.9	811.4	772.0	749.9	731.0	713.7	704.2	696.3	690.0
47.5°	822.4	808.2	789.3	754.6	723.1	702.6	683.7	666.4	657.0	647.5	639.6
50°	764.1	756.2	735.7	702.6	672.7	649.1	631.8	616.0	609.7	598.7	586.1
52.5°	712.1	697.9	680.6	653.8	627.0	598.7	575.0	565.6	554.6	548.3	537.2
55°	650.7	641.2	622.3	598.7	570.3	546.7	529.3	516.7	502.6	496.3	482.1
57.5°	598.7	581.3	571.9	542.0	515.2	491.5	478.9	466.3	450.6	441.1	434.8
60°	542.0	526.2	512.0	486.8	467.9	442.7	423.8	412.8	401.7	389.1	382.8
62.5°	486.8	474.2	456.9	436.4	412.8	392.3	378.1	362.4	356.1	343.4	338.7
65°	426.9	417.5	403.3	379.7	360.8	343.4	329.3	316.7	310.4	305.6	302.5
67.5°	373.4	360.8	351.3	330.8	310.4	296.2	288.3	280.4	272.6	267.8	263.1
70°	318.2	308.8	299.3	280.4	266.3	253.6	247.3	241.0	236.3	231.6	226.9
72.5°	261.5	256.8	247.3	234.7	223.7	214.3	209.5	201.7	196.9	189.1	185.9
75°	215.8	208.0	203.2	192.2	182.8	174.9	168.6	159.1	152.8	149.7	148.1
77.5°	170.1	167.0	160.7	151.2	146.5	138.6	129.2	126.0	122.9	122.9	121.3
80°	127.6	122.9	118.2	110.3	105.6	99.3	99.3	99.3	97.7	99.3	97.7
82.5°	86.6	83.5	80.3	75.6	74.0	74.0	75.6	75.6	75.6	75.6	75.6
85°	50.4	50.4	50.4	52.0	50.4	50.4	52.0	53.6	52.0	52.0	50.4
87.5°	23.6	23.6	25.2	25.2	26.8	26.8	26.8	26.8	26.8	26.8	28.4
90°	12.8	14.2	16.1	19.8	23.5	27.2	30.9	32.0	33.2	34.3	35.4
92.5°	22.8	21.9	23.2	25.7	28.3	30.8	33.4	35.4	37.4	39.5	41.5
95°	31.6	25.7	27.3	30.4	33.6	36.7	39.9	41.9	43.9	45.9	47.9
97.5°	110.8	106.8	99.5	84.9	70.4	55.8	41.2	43.5	45.8	48.1	50.4
100°	240.2	243.1	220.8	176.2	131.7	87.1	42.5	44.8	47.0	49.3	51.6
102.5°	317.1	319.0	294.1	244.4	194.7	144.9	95.2	85.8	76.3	66.9	57.4
105°	395.9	397.5	384.6	358.9	333.2	307.4	281.7	231.1	180.5	129.9	79.3
107.5°	479.8	481.1	483.2	487.5	491.8	496.1	500.4	456.4	412.4	368.3	324.3
110°	564.9	566.0	567.6	570.7	573.9	577.0	580.2	570.8	561.3	551.9	542.4

TEST NUMBER: P1031076

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	646.1	647.1	648.7	651.8	654.9	658.1	661.2	663.8	666.4	668.9	671.5
115°	725.9	726.8	728.1	730.7	733.2	735.8	738.4	741.2	744.1	746.9	749.8
117.5°	806.8	807.8	808.5	810.0	811.4	812.9	814.3	816.6	818.9	821.2	823.5
120°	882.4	883.7	884.1	885.0	885.9	886.7	887.6	889.9	892.2	894.5	896.8
122.5°	954.8	955.8	956.4	957.5	958.6	959.8	960.9	962.3	963.8	965.2	966.7
125°	1022.9	1024.0	1024.6	1025.7	1026.8	1028.0	1029.1	1029.7	1030.3	1030.8	1031.4
127.5°	1089.8	1090.9	1091.6	1093.0	1094.5	1095.9	1097.3	1098.1	1099.0	1099.8	1100.7
130°	1151.5	1152.6	1153.2	1154.3	1155.4	1156.6	1157.7	1158.9	1160.0	1161.2	1162.3
132.5°	1210.7	1211.8	1212.2	1213.1	1213.9	1214.8	1215.6	1216.8	1217.9	1219.1	1220.2
135°	1268.8	1269.7	1270.3	1271.4	1272.5	1273.7	1274.8	1275.7	1276.5	1277.4	1278.3
137.5°	1322.6	1323.7	1324.0	1324.6	1325.1	1325.7	1326.3	1327.7	1329.1	1330.6	1332.0
140°	1371.7	1372.6	1373.0	1373.9	1374.7	1375.6	1376.4	1377.6	1378.7	1379.9	1381.0
142.5°	1419.3	1420.2	1420.6	1421.5	1422.3	1423.2	1424.0	1424.9	1425.7	1426.6	1427.5
145°	1464.2	1465.2	1465.5	1466.1	1466.6	1467.2	1467.8	1468.4	1468.9	1469.5	1470.0
147.5°	1504.4	1505.1	1505.4	1505.9	1506.5	1507.0	1507.6	1508.2	1508.8	1509.3	1509.9
150°	1540.7	1541.1	1541.4	1542.0	1542.5	1543.1	1543.7	1544.3	1544.8	1545.4	1545.9
152.5°	1573.1	1573.2	1573.3	1573.6	1573.9	1574.2	1574.5	1575.7	1576.8	1578.0	1579.1
155°	1601.8	1601.5	1601.6	1601.9	1602.2	1602.5	1602.8	1604.2	1605.7	1607.1	1608.6
157.5°	1629.8	1629.8	1629.7	1629.4	1629.1	1628.9	1628.6	1630.3	1632.0	1633.7	1635.4
160°	1651.8	1651.7	1651.6	1651.3	1651.0	1650.7	1650.4	1652.1	1653.8	1655.5	1657.2
162.5°	1671.4	1671.0	1670.9	1670.6	1670.3	1670.0	1669.7	1671.7	1673.7	1675.7	1677.7
165°	1688.1	1687.7	1687.6	1687.3	1687.0	1686.7	1686.4	1688.7	1691.0	1693.3	1695.6
167.5°	1701.2	1700.6	1700.6	1700.6	1700.6	1700.6	1700.6	1702.9	1705.2	1707.5	1709.8
170°	1712.8	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1714.5	1716.8	1719.1	1721.4
172.5°	1719.3	1718.6	1718.7	1719.0	1719.3	1719.6	1719.9	1722.2	1724.5	1726.8	1729.1
175°	1725.7	1725.0	1725.1	1725.4	1725.7	1726.0	1726.3	1728.3	1730.3	1732.3	1734.3
177.5°	1728.3	1727.6	1727.7	1728.0	1728.3	1728.6	1728.9	1731.2	1733.5	1735.8	1738.1
180°	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5

TEST NUMBER: P1031076

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1739.3	1740.9	1736.1	1726.7	1725.1	1728.3	1737.7	1734.6	1726.7	1740.9	1728.3
5°	1643.2	1635.3	1632.2	1635.3	1625.9	1621.1	1630.6	1625.9	1630.6	1632.2	1636.9
7.5°	1550.2	1551.8	1542.4	1543.9	1531.3	1534.5	1534.5	1534.5	1539.2	1542.4	1548.7
10°	1469.9	1473.0	1462.0	1463.6	1454.1	1447.8	1452.6	1462.0	1462.0	1462.0	1465.2
12.5°	1405.3	1391.1	1383.2	1381.7	1370.6	1367.5	1376.9	1380.1	1388.0	1388.0	1392.7
15°	1324.9	1321.8	1315.5	1315.5	1288.7	1295.0	1298.2	1309.2	1324.9	1312.3	1315.5
17.5°	1252.5	1244.6	1236.7	1233.6	1230.4	1221.0	1233.6	1232.0	1241.5	1243.0	1247.8
20°	1187.9	1181.6	1165.8	1167.4	1170.6	1156.4	1164.3	1164.3	1173.7	1183.2	1194.2
22.5°	1124.9	1118.6	1110.7	1113.8	1104.4	1101.2	1101.2	1109.1	1120.1	1128.0	1126.4
25°	1076.0	1065.0	1060.3	1055.5	1050.8	1054.0	1049.2	1057.1	1065.0	1069.7	1065.0
27.5°	1020.9	1016.2	1006.7	1002.0	994.1	997.3	1000.4	1006.7	1011.4	1011.4	1016.2
30°	967.3	961.0	957.9	953.1	953.1	946.8	948.4	954.7	959.4	964.2	970.5
32.5°	915.3	910.6	905.9	905.9	902.7	901.2	899.6	909.0	909.0	918.5	918.5
35°	872.8	864.9	864.9	857.0	860.2	858.6	855.5	861.8	863.3	869.6	868.1
37.5°	825.5	825.5	822.4	814.5	808.2	809.8	817.7	817.7	822.4	820.8	825.5
40°	778.3	775.1	775.1	770.4	768.8	767.2	768.8	770.4	778.3	776.7	778.3
42.5°	731.0	732.6	724.7	724.7	724.7	720.0	721.6	723.1	726.3	729.4	734.2
45°	685.3	682.2	680.6	677.4	674.3	675.9	674.3	680.6	679.0	682.2	686.9
47.5°	636.5	631.8	630.2	623.9	623.9	627.0	625.5	630.2	631.8	636.5	633.3
50°	589.2	582.9	578.2	579.8	570.3	573.5	573.5	578.2	582.9	584.5	587.6
52.5°	534.1	532.5	530.9	523.0	521.5	519.9	521.5	523.0	529.3	534.1	535.7
55°	480.5	478.9	469.5	466.3	461.6	461.6	464.8	466.3	477.4	478.9	485.2
57.5°	431.7	426.9	415.9	414.3	414.3	414.3	409.6	415.9	419.1	426.9	426.9
60°	378.1	378.1	368.7	368.7	370.2	368.7	368.7	370.2	370.2	376.5	379.7
62.5°	335.6	334.0	334.0	330.8	329.3	330.8	329.3	329.3	330.8	335.6	340.3
65°	297.8	296.2	294.6	293.0	289.9	289.9	291.5	294.6	294.6	297.8	299.3
67.5°	261.5	261.5	258.4	258.4	256.8	255.2	256.8	255.2	261.5	261.5	263.1
70°	225.3	223.7	219.0	217.4	212.7	214.3	214.3	219.0	220.6	223.7	226.9
72.5°	181.2	181.2	178.0	174.9	176.4	173.3	173.3	174.9	174.9	179.6	181.2
75°	149.7	146.5	144.9	146.5	144.9	148.1	144.9	144.9	148.1	148.1	148.1
77.5°	122.9	122.9	121.3	121.3	122.9	121.3	122.9	122.9	122.9	121.3	122.9
80°	100.8	99.3	99.3	99.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7
82.5°	75.6	75.6	74.0	75.6	75.6	74.0	75.6	74.0	74.0	75.6	75.6
85°	50.4	53.6	50.4	50.4	52.0	52.0	53.6	52.0	53.6	50.4	52.0
87.5°	26.8	28.4	28.4	26.8	26.8	28.4	28.4	28.4	29.9	26.8	28.4
90°	36.0	36.3	36.9	37.4	38.0	38.6	38.0	37.4	36.9	36.3	36.0
92.5°	42.5	42.6	42.9	43.2	43.4	43.7	43.4	43.2	42.9	42.6	42.5
95°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
97.5°	51.5	51.6	51.9	52.2	52.4	52.7	52.4	52.2	51.9	51.6	51.5
100°	52.7	52.8	53.1	53.4	53.7	54.0	53.7	53.4	53.1	52.8	52.7
102.5°	52.7	53.0	53.6	54.1	54.7	55.3	54.7	54.1	53.6	53.0	52.7
105°	54.0	54.3	54.9	55.4	56.0	56.6	56.0	55.4	54.9	54.3	54.0
107.5°	302.3	283.6	246.1	208.7	171.2	133.8	171.2	208.7	246.1	283.6	302.3
110°	537.7	517.3	476.4	435.5	394.7	353.8	394.7	435.5	476.4	517.3	537.7



TEST NUMBER: P1031076

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	672.8	672.5	671.9	671.4	670.8	670.2	670.8	671.4	671.9	672.5	672.8
115°	751.2	751.8	752.9	754.1	755.2	756.4	755.2	754.1	752.9	751.8	751.2
117.5°	824.6	824.7	825.0	825.3	825.6	825.9	825.6	825.3	825.0	824.7	824.6
120°	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9
122.5°	967.4	967.5	967.8	968.1	968.3	968.6	968.3	968.1	967.8	967.5	967.4
125°	1031.7	1032.0	1032.6	1033.1	1033.7	1034.3	1033.7	1033.1	1032.6	1032.0	1031.7
127.5°	1101.1	1100.8	1100.3	1099.7	1099.2	1098.6	1099.2	1099.7	1100.3	1100.8	1101.1
130°	1162.9	1162.6	1162.0	1161.5	1160.9	1160.3	1160.9	1161.5	1162.0	1162.6	1162.9
132.5°	1220.8	1220.4	1219.5	1218.6	1217.8	1216.9	1217.8	1218.6	1219.5	1220.4	1220.8
135°	1278.7	1278.3	1277.4	1276.5	1275.7	1274.8	1275.7	1276.5	1277.4	1278.3	1278.7
137.5°	1332.7	1332.4	1331.8	1331.3	1330.7	1330.1	1330.7	1331.3	1331.8	1332.4	1332.7
140°	1381.6	1381.3	1380.7	1380.2	1379.6	1379.0	1379.6	1380.2	1380.7	1381.3	1381.6
142.5°	1427.9	1427.5	1426.6	1425.7	1424.9	1424.0	1424.9	1425.7	1426.6	1427.5	1427.9
145°	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
147.5°	1510.2	1509.5	1508.1	1506.6	1505.2	1503.8	1505.2	1506.6	1508.1	1509.5	1510.2
150°	1546.2	1545.8	1544.9	1544.1	1543.2	1542.4	1543.2	1544.1	1544.9	1545.8	1546.2
152.5°	1579.7	1579.0	1577.5	1576.1	1574.6	1573.2	1574.6	1576.1	1577.5	1579.0	1579.7
155°	1609.3	1608.4	1606.7	1605.0	1603.2	1601.5	1603.2	1605.0	1606.7	1608.4	1609.3
157.5°	1636.3	1635.2	1632.9	1630.6	1628.3	1626.0	1628.3	1630.6	1632.9	1635.2	1636.3
160°	1658.1	1657.1	1655.1	1653.1	1651.1	1649.1	1651.1	1653.1	1655.1	1657.1	1658.1
162.5°	1678.7	1677.8	1676.1	1674.4	1672.7	1671.0	1672.7	1674.4	1676.1	1677.8	1678.7
165°	1696.7	1695.7	1693.7	1691.7	1689.7	1687.7	1689.7	1691.7	1693.7	1695.7	1696.7
167.5°	1710.9	1709.8	1707.5	1705.2	1702.9	1700.6	1702.9	1705.2	1707.5	1709.8	1710.9
170°	1722.5	1721.4	1719.1	1716.8	1714.5	1712.2	1714.5	1716.8	1719.1	1721.4	1722.5
172.5°	1730.2	1728.9	1726.3	1723.8	1721.2	1718.6	1721.2	1723.8	1726.3	1728.9	1730.2
175°	1735.3	1734.2	1731.9	1729.6	1727.3	1725.0	1727.3	1729.6	1731.9	1734.2	1735.3
177.5°	1739.2	1737.8	1734.9	1732.0	1729.2	1726.3	1729.2	1732.0	1734.9	1737.8	1739.2
180°	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5

TEST NUMBER: P1031076

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1740.9	1747.2	1740.9	1728.3	1740.9	1748.7	1756.6	1769.2	1775.5	1775.5	1785.0
5°	1641.6	1654.2	1649.5	1646.3	1658.9	1666.8	1679.4	1695.2	1712.5	1723.5	1736.1
7.5°	1553.4	1561.3	1569.1	1569.1	1581.7	1599.1	1618.0	1636.9	1658.9	1674.7	1684.2
10°	1476.2	1482.5	1487.2	1493.5	1512.4	1531.3	1556.5	1580.2	1599.1	1616.4	1632.2
12.5°	1402.1	1411.6	1422.6	1427.4	1441.5	1465.2	1488.8	1517.2	1547.1	1564.4	1580.2
15°	1331.3	1336.0	1348.6	1362.8	1375.4	1400.6	1430.5	1460.4	1485.6	1512.4	1526.6
17.5°	1258.8	1260.4	1293.4	1285.6	1326.5	1350.2	1365.9	1394.3	1435.2	1457.3	1479.3
20°	1187.9	1203.6	1217.8	1225.7	1247.8	1274.5	1320.2	1342.3	1375.4	1395.8	1414.7
22.5°	1132.7	1156.4	1156.4	1175.3	1186.3	1211.5	1244.6	1287.1	1323.4	1337.6	1364.3
25°	1083.9	1094.9	1113.8	1120.1	1140.6	1162.7	1184.7	1230.4	1269.8	1288.7	1307.6
27.5°	1020.9	1035.1	1060.3	1060.3	1087.1	1110.7	1137.5	1167.4	1206.8	1233.6	1254.1
30°	972.0	986.2	997.3	1014.6	1025.6	1047.7	1094.9	1117.0	1151.7	1175.3	1200.5
32.5°	926.4	937.4	946.8	965.7	978.4	1003.6	1028.8	1068.2	1098.1	1120.1	1146.9
35°	875.9	887.0	899.6	913.8	932.7	956.3	979.9	1013.0	1042.9	1063.4	1085.5
37.5°	828.7	836.6	855.5	864.9	880.7	902.7	932.7	967.3	994.1	1009.9	1031.9
40°	783.0	789.3	803.5	820.8	831.8	849.2	880.7	910.6	943.7	962.6	979.9
42.5°	734.2	742.0	754.6	772.0	789.3	808.2	825.5	860.2	890.1	905.9	924.8
45°	691.6	696.3	705.8	723.1	740.5	754.6	781.4	812.9	841.3	853.9	874.4
47.5°	641.2	645.9	660.1	668.0	686.9	705.8	732.6	764.1	789.3	801.9	820.8
50°	589.2	593.9	603.4	620.7	633.3	653.8	677.4	704.2	735.7	753.1	764.1
52.5°	538.8	548.3	556.1	570.3	586.1	606.5	628.6	653.8	680.6	697.9	710.5
55°	488.4	496.3	505.7	513.6	532.5	551.4	576.6	600.2	623.9	639.6	653.8
57.5°	431.7	442.7	452.2	467.9	482.1	497.8	526.2	545.1	573.5	584.5	597.1
60°	382.8	393.9	401.7	414.3	426.9	447.4	466.3	490.0	513.6	527.8	543.5
62.5°	341.9	346.6	351.3	363.9	376.5	395.4	414.3	438.0	463.2	471.1	483.7
65°	300.9	305.6	313.5	324.5	334.0	345.0	365.5	384.4	408.0	420.6	425.4
67.5°	266.3	271.0	272.6	280.4	288.3	300.9	311.9	330.8	352.9	360.8	370.2
70°	226.9	234.7	236.3	242.6	245.8	253.6	266.3	280.4	297.8	311.9	319.8
72.5°	181.2	192.2	195.4	204.8	209.5	217.4	226.9	237.9	248.9	255.2	261.5
75°	148.1	151.2	152.8	160.7	168.6	179.6	184.3	190.6	200.1	208.0	214.3
77.5°	122.9	124.5	126.0	126.0	127.6	133.9	143.4	151.2	157.5	160.7	165.4
80°	99.3	97.7	97.7	99.3	99.3	99.3	102.4	113.4	116.6	124.5	122.9
82.5°	77.2	74.0	75.6	74.0	74.0	74.0	74.0	75.6	75.6	80.3	83.5
85°	50.4	52.0	50.4	50.4	48.8	50.4	48.8	48.8	47.3	47.3	45.7
87.5°	26.8	28.4	26.8	26.8	25.2	26.8	25.2	25.2	23.6	23.6	20.5
90°	35.4	34.3	33.2	32.0	30.9	27.2	23.5	19.8	16.1	14.2	12.8
92.5°	41.5	39.5	37.4	35.4	33.4	30.8	28.3	25.7	23.2	21.9	22.8
95°	47.9	45.9	43.9	41.9	39.9	36.7	33.6	30.4	27.3	25.7	31.6
97.5°	50.4	48.1	45.8	43.5	41.2	55.8	70.4	84.9	99.5	106.8	110.8
100°	51.6	49.3	47.0	44.8	42.5	87.1	131.7	176.2	220.8	243.1	240.2
102.5°	57.4	66.9	76.3	85.8	95.2	144.9	194.7	244.4	294.1	319.0	317.1
105°	79.3	129.9	180.5	231.1	281.7	307.4	333.2	358.9	384.6	397.5	395.9
107.5°	324.3	368.3	412.4	456.4	500.4	496.1	491.8	487.5	483.2	481.1	479.8
110°	542.4	551.9	561.3	570.8	580.2	577.0	573.9	570.7	567.6	566.0	564.9

TEST NUMBER: P1031076

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	671.5	668.9	666.4	663.8	661.2	658.1	654.9	651.8	648.7	647.1	646.1
115°	749.8	746.9	744.1	741.2	738.4	735.8	733.2	730.7	728.1	726.8	725.9
117.5°	823.5	821.2	818.9	816.6	814.3	812.9	811.4	810.0	808.5	807.8	806.8
120°	896.8	894.5	892.2	889.9	887.6	886.7	885.9	885.0	884.1	883.7	882.4
122.5°	966.7	965.2	963.8	962.3	960.9	959.8	958.6	957.5	956.4	955.8	954.8
125°	1031.4	1030.8	1030.3	1029.7	1029.1	1028.0	1026.8	1025.7	1024.6	1024.0	1022.9
127.5°	1100.7	1099.8	1099.0	1098.1	1097.3	1095.9	1094.5	1093.0	1091.6	1090.9	1089.8
130°	1162.3	1161.2	1160.0	1158.9	1157.7	1156.6	1155.4	1154.3	1153.2	1152.6	1151.5
132.5°	1220.2	1219.1	1217.9	1216.8	1215.6	1214.8	1213.9	1213.1	1212.2	1211.8	1210.7
135°	1278.3	1277.4	1276.5	1275.7	1274.8	1273.7	1272.5	1271.4	1270.3	1269.7	1268.8
137.5°	1332.0	1330.6	1329.1	1327.7	1326.3	1325.7	1325.1	1324.6	1324.0	1323.7	1322.6
140°	1381.0	1379.9	1378.7	1377.6	1376.4	1375.6	1374.7	1373.9	1373.0	1372.6	1371.7
142.5°	1427.5	1426.6	1425.7	1424.9	1424.0	1423.2	1422.3	1421.5	1420.6	1420.2	1419.3
145°	1470.0	1469.5	1468.9	1468.4	1467.8	1467.2	1466.6	1466.1	1465.5	1465.2	1464.2
147.5°	1509.9	1509.3	1508.8	1508.2	1507.6	1507.0	1506.5	1505.9	1505.4	1505.1	1504.4
150°	1545.9	1545.4	1544.8	1544.3	1543.7	1543.1	1542.5	1542.0	1541.4	1541.1	1540.7
152.5°	1579.1	1578.0	1576.8	1575.7	1574.5	1574.2	1573.9	1573.6	1573.3	1573.2	1573.1
155°	1608.6	1607.1	1605.7	1604.2	1602.8	1602.5	1602.2	1601.9	1601.6	1601.5	1601.8
157.5°	1635.4	1633.7	1632.0	1630.3	1628.6	1628.9	1629.1	1629.4	1629.7	1629.8	1629.8
160°	1657.2	1655.5	1653.8	1652.1	1650.4	1650.7	1651.0	1651.3	1651.6	1651.7	1651.8
162.5°	1677.7	1675.7	1673.7	1671.7	1669.7	1670.0	1670.3	1670.6	1670.9	1671.0	1671.4
165°	1695.6	1693.3	1691.0	1688.7	1686.4	1686.7	1687.0	1687.3	1687.6	1687.7	1688.1
167.5°	1709.8	1707.5	1705.2	1702.9	1700.6	1700.6	1700.6	1700.6	1700.6	1700.6	1701.2
170°	1721.4	1719.1	1716.8	1714.5	1712.2	1712.2	1712.2	1712.2	1712.2	1712.2	1712.8
172.5°	1729.1	1726.8	1724.5	1722.2	1719.9	1719.6	1719.3	1719.0	1718.7	1718.6	1719.3
175°	1734.3	1732.3	1730.3	1728.3	1726.3	1726.0	1725.7	1725.4	1725.1	1725.0	1725.7
177.5°	1738.1	1735.8	1733.5	1731.2	1728.9	1728.6	1728.3	1728.0	1727.7	1727.6	1728.3
180°	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5	1731.5

TEST NUMBER: P1031076

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CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1840.1	1840.1	1840.1	1840.1
2.5°	1792.9	1803.9	1825.9	1844.8
5°	1755.0	1772.4	1805.5	1838.5
7.5°	1709.4	1736.1	1778.7	1824.4
10°	1665.2	1699.9	1751.9	1805.5
12.5°	1621.1	1657.4	1712.5	1781.8
15°	1569.1	1607.0	1673.1	1756.6
17.5°	1523.5	1573.9	1633.7	1717.2
20°	1474.6	1512.4	1589.6	1677.8
22.5°	1413.2	1476.2	1548.7	1641.6
25°	1364.3	1419.5	1491.9	1597.5
27.5°	1304.5	1369.1	1457.3	1550.2
30°	1255.6	1309.2	1391.1	1503.0
32.5°	1198.9	1261.9	1347.0	1457.3
35°	1148.5	1202.1	1282.4	1394.3
37.5°	1088.6	1146.9	1236.7	1336.0
40°	1036.6	1093.4	1178.4	1271.4
42.5°	973.6	1033.5	1118.6	1197.3
45°	923.2	978.4	1046.1	1118.6
47.5°	861.8	920.1	986.2	1036.6
50°	806.6	860.2	912.2	954.7
52.5°	746.8	795.6	842.9	874.4
55°	691.6	729.4	767.2	789.3
57.5°	627.0	663.3	694.8	707.4
60°	570.3	600.2	620.7	634.9
62.5°	510.4	532.5	548.3	556.1
65°	452.2	467.9	475.8	483.7
67.5°	392.3	406.5	411.2	420.6
70°	329.3	345.0	348.2	352.9
72.5°	282.0	282.0	288.3	294.6
75°	225.3	228.4	231.6	231.6
77.5°	176.4	176.4	179.6	181.2
80°	129.2	130.8	130.8	129.2
82.5°	88.2	91.4	88.2	86.6
85°	48.8	55.1	52.0	52.0
87.5°	20.5	20.5	23.6	20.5
90°	9.9	7.0	4.2	1.3
92.5°	24.5	26.2	27.9	29.6
95°	43.3	55.0	66.8	78.5
97.5°	118.8	126.8	134.8	142.8
100°	234.5	228.8	223.1	217.4
102.5°	313.4	309.7	306.0	302.3
105°	392.8	389.6	386.5	383.3
107.5°	477.2	474.7	472.1	469.5
110°	562.6	560.3	558.0	555.7

TEST NUMBER: P1031076

CATALOG NUMBER: S123RDIW-B1165D1320UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	644.1	642.0	640.0	638.0
115°	724.2	722.5	720.8	719.1
117.5°	804.8	802.8	800.8	798.8
120°	879.9	877.3	874.8	872.2
122.5°	952.8	950.8	948.8	946.8
125°	1020.6	1018.3	1016.0	1013.7
127.5°	1087.5	1085.2	1082.9	1080.6
130°	1149.2	1146.9	1144.6	1142.3
132.5°	1208.4	1206.1	1203.8	1201.5
135°	1267.1	1265.4	1263.6	1261.9
137.5°	1320.3	1318.0	1315.7	1313.4
140°	1370.0	1368.3	1366.6	1364.9
142.5°	1417.6	1415.9	1414.1	1412.4
145°	1462.2	1460.2	1458.2	1456.2
147.5°	1502.9	1501.5	1500.0	1498.6
150°	1539.8	1538.9	1538.1	1537.2
152.5°	1572.8	1572.5	1572.3	1572.0
155°	1602.4	1602.9	1603.5	1604.1
157.5°	1629.8	1629.8	1629.8	1629.8
160°	1652.1	1652.4	1652.7	1653.0
162.5°	1672.3	1673.2	1674.0	1674.9
165°	1689.0	1689.9	1690.7	1691.6
167.5°	1702.3	1703.4	1704.6	1705.7
170°	1713.9	1715.0	1716.2	1717.3
172.5°	1720.7	1722.2	1723.6	1725.0
175°	1727.2	1728.6	1730.1	1731.5
177.5°	1729.7	1731.2	1732.6	1734.0
180°	1731.5	1731.5	1731.5	1731.5

(END OF REPORT)