

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: NEO-RAY

Report Number: P331833

Luminaire Tested: **S122RDIW-S865D970U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331833
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D970U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7173.3 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

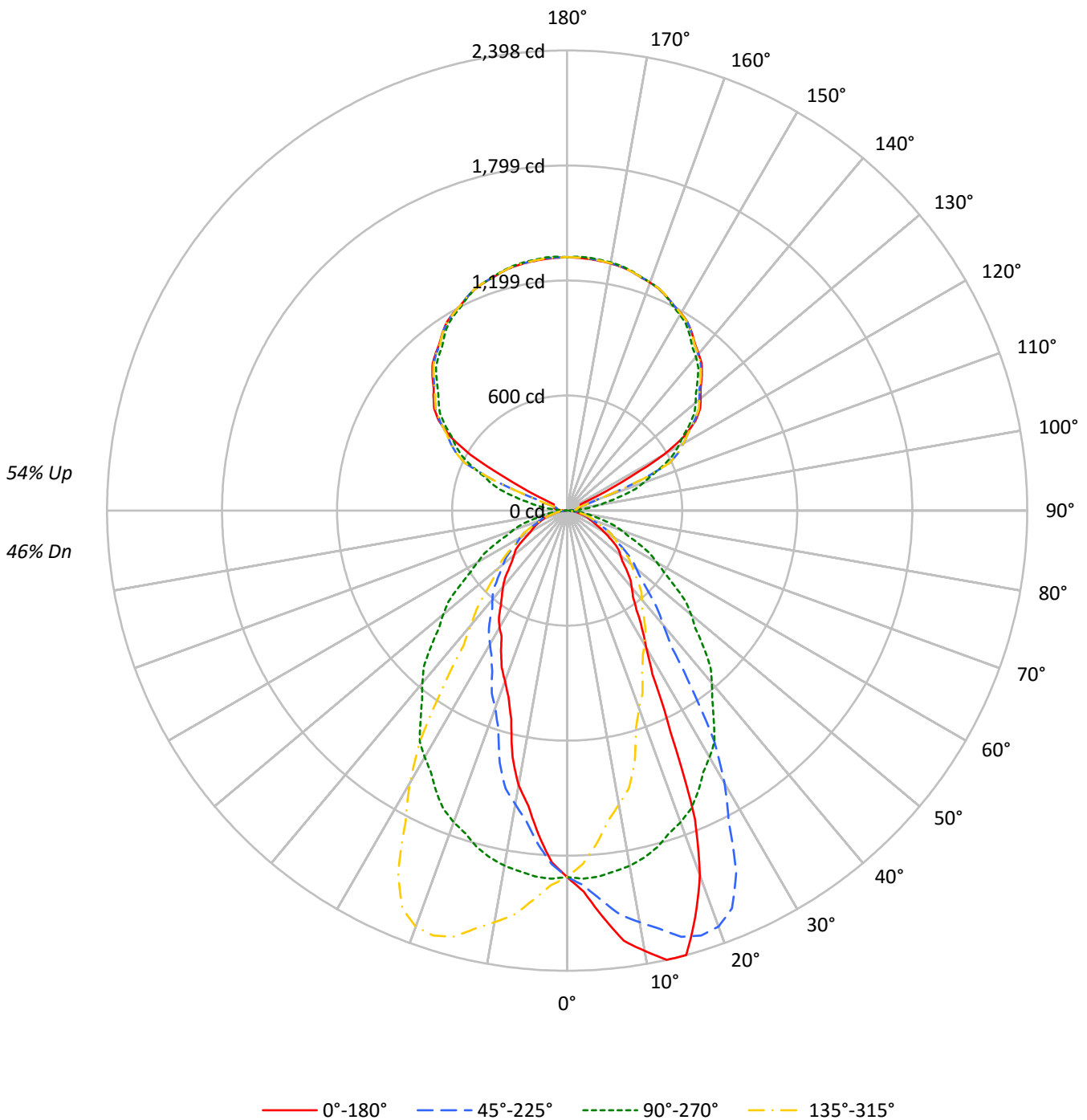
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	98	94	90	87	89	86	83	80	72	70	68	59	58	56	47	47	46	40
2	89	83	77	72	82	76	71	67	64	61	57	53	51	48	43	41	40	35
3	82	73	66	61	75	68	62	57	57	53	49	48	44	42	39	36	35	30
4	76	65	58	52	69	61	54	49	51	47	43	43	39	37	35	33	31	27
5	70	59	51	45	64	54	48	43	46	41	37	39	35	32	32	29	27	24
6	64	53	45	40	59	49	42	38	42	37	33	36	32	29	29	27	24	22
7	60	48	41	35	55	45	38	33	39	33	30	33	29	26	27	24	22	19
8	56	44	37	31	51	41	34	30	35	30	27	30	26	23	25	22	20	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	23	20	18	16
10	49	37	30	26	45	35	29	24	30	25	22	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	30832	30832	30832	30832
5°	34434	31024	27509	31024
10°	38203	30808	23845	30808
15°	40082	30355	18788	30355
20°	34749	29687	16258	29687
25°	22789	28771	14516	28771
30°	15340	27660	13136	27660
35°	12423	26260	11848	26260
40°	11049	24738	10964	24738
45°	9999	22952	9787	22952
50°	9100	21182	9065	21182
55°	8555	19220	8442	19220
60°	7156	17418	7072	17418
65°	6032	15817	6842	15817
70°	5575	14124	6453	14124
75°	5215	12296	5958	12296
80°	4816	10116	5309	10116
85°	4428	7984	4668	7984



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.5
10°-20°	504.4	7.0
20°-30°	650.0	9.1
30°-40°	617.7	8.6
40°-50°	529.1	7.4
50°-60°	402.9	5.6
60°-70°	254.7	3.6
70°-80°	127.2	1.8
80°-90°	36.4	0.5
90°-100°	44.1	0.6
100°-110°	161.5	2.3
110°-120°	431.8	6.0
120°-130°	712.8	9.9
130°-140°	758.0	10.6
140°-150°	704.6	9.8
150°-160°	566.5	7.9
160°-170°	365.0	5.1
170°-180°	125.6	1.8
0°-30°	1335.4	18.6
0°-40°	1953.1	27.2
0°-60°	2885.1	40.2
0°-90°	3303.4	46.1
90°-120°	637.4	8.9
90°-150°	2812.8	39.2
90°-180°	3870.0	53.9
0°-180°	7173.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1910	1910	1910	1910	1910	
5°	2125	1914	1697	1914	2125	210
15°	2398	1816	1124	1816	2398	647
25°	1279	1615	815	1615	1279	607
35°	630	1332	601	1332	630	403
45°	438	1005	429	1005	438	339
55°	304	683	300	683	304	267
65°	158	414	179	414	158	161
75°	84	197	96	197	84	89
85°	24	43	25	43	24	26
90°	26	1	26	1	26	12
95°	41	62	41	62	41	38
105°	73	290	73	290	73	76
115°	78	549	78	549	78	196
125°	817	777	817	777	817	707
135°	993	961	993	961	993	765
145°	1132	1115	1132	1115	1132	708
155°	1229	1228	1229	1228	1229	567
165°	1291	1294	1291	1294	1291	364
175°	1316	1323	1316	1323	1316	125
180°	1320	1320	1320	1320	1320	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1987.1	1988.7	1990.3	1986.5	1986.5	1983.4	1976.5	1971.2	1956.3	1954.2	1954.2
5°	2124.6	2123.2	2125.9	2117.3	2105.3	2102.7	2090.1	2073.5	2056.2	2037.0	2033.0
7.5°	2261.2	2259.2	2253.9	2252.5	2243.3	2223.3	2203.0	2181.4	2152.7	2124.7	2110.6
10°	2330.2	2352.1	2338.9	2315.6	2320.3	2289.1	2272.5	2244.0	2220.1	2178.3	2169.0
12.5°	2398.2	2406.8	2402.6	2389.4	2383.5	2361.8	2339.4	2314.6	2270.5	2233.0	2200.3
15°	2397.9	2410.5	2413.8	2409.9	2413.2	2411.9	2399.9	2379.3	2340.9	2299.7	2263.9
17.5°	2220.9	2229.7	2251.4	2266.1	2284.7	2324.0	2343.4	2350.9	2345.2	2321.7	2296.5
20°	2022.4	2007.8	2068.8	2100.0	2126.5	2192.9	2250.0	2271.9	2307.0	2306.4	2299.7
22.5°	1741.0	1744.5	1802.4	1839.4	1916.9	1983.2	2048.3	2130.7	2198.7	2243.7	2270.0
25°	1279.2	1304.5	1362.2	1412.6	1498.9	1622.3	1734.4	1864.5	1987.2	2084.1	2176.3
27.5°	960.8	962.6	1008.4	1055.0	1106.2	1207.3	1348.5	1503.8	1678.8	1823.2	1989.3
30°	822.8	818.8	838.0	866.5	910.3	988.6	1094.8	1247.4	1421.9	1639.5	1833.3
32.5°	725.1	725.3	739.8	760.9	797.3	850.1	922.8	1046.8	1211.7	1425.6	1652.8
35°	630.3	629.7	640.3	655.5	670.8	704.6	754.4	819.4	932.9	1132.6	1364.8
37.5°	562.4	565.3	570.5	580.0	596.9	615.7	645.6	689.3	770.1	888.2	1083.4
40°	524.2	525.5	532.8	540.8	550.7	565.3	589.9	625.0	684.1	778.3	920.9
42.5°	489.1	490.5	495.6	503.1	510.9	525.5	545.8	576.2	624.1	697.6	815.3
45°	437.9	437.9	442.6	445.9	454.5	467.8	484.4	509.6	542.7	597.2	675.5
47.5°	389.9	390.0	393.1	398.8	404.2	414.6	430.9	451.5	475.6	517.7	584.6
50°	362.3	362.9	364.9	369.6	372.9	382.2	394.8	412.7	437.9	470.4	526.2
52.5°	340.0	339.6	342.1	344.1	346.4	353.0	362.4	378.2	400.8	429.0	475.2
55°	303.9	301.2	305.2	308.5	310.5	313.2	318.5	328.4	347.7	371.6	406.1
57.5°	258.8	257.7	260.5	263.5	269.8	276.9	281.5	287.8	297.8	314.9	349.1
60°	221.6	221.6	227.6	229.6	236.9	246.2	255.5	260.8	270.7	282.0	307.2
62.5°	188.7	189.2	192.0	194.0	198.1	209.5	222.5	234.2	243.6	254.4	271.1
65°	157.9	159.2	159.2	160.6	163.2	165.9	171.2	180.5	197.1	212.3	224.9
67.5°	134.0	134.4	134.8	136.2	136.8	139.7	141.9	146.0	149.8	164.3	179.9
70°	118.1	120.1	119.4	120.8	121.4	122.7	125.4	127.4	133.4	136.7	146.0
72.5°	103.2	104.7	104.6	105.4	107.1	107.4	109.5	111.5	115.3	118.1	123.1
75°	83.6	82.9	83.6	84.9	85.6	86.3	86.3	88.9	90.9	93.6	96.9
77.5°	64.5	65.2	65.0	65.2	65.3	66.5	66.4	67.5	69.5	70.9	72.5
80°	51.8	52.4	51.8	52.4	53.1	53.7	53.1	53.7	55.7	57.1	57.1
82.5°	40.1	40.2	40.6	40.7	40.9	41.0	41.9	42.1	43.5	43.3	43.8
85°	23.9	23.2	23.2	23.2	23.9	24.5	23.9	23.9	24.5	24.5	24.5
87.5°	13.7	14.1	14.0	13.9	13.8	13.7	13.5	13.8	13.1	13.4	12.5
90°	25.8	25.4	24.9	24.5	24.1	23.4	22.3	21.2	20.2	19.1	17.4
92.5°	25.8	25.5	25.3	25.0	24.8	24.4	23.8	23.3	22.7	22.2	21.3
95°	41.1	41.3	41.5	41.7	41.9	41.5	40.5	39.4	38.3	37.3	35.8
97.5°	54.8	54.6	54.3	54.1	53.8	53.3	52.4	51.6	50.7	49.9	46.4
100°	64.0	63.6	63.2	62.7	62.3	61.3	59.6	57.9	56.2	54.5	50.9
102.5°	68.6	68.0	67.4	66.8	66.2	64.8	62.6	60.4	58.2	56.0	86.2
105°	72.6	71.8	70.9	70.1	69.2	67.6	65.3	63.0	60.6	58.3	116.3
107.5°	74.7	73.9	73.0	72.2	71.3	72.1	74.5	76.8	79.2	81.6	151.1
110°	75.5	74.6	73.8	72.9	72.1	82.3	103.5	124.7	146.0	167.2	228.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	76.3	75.6	74.9	74.2	73.5	111.9	189.4	266.8	344.3	421.8	436.9
115°	78.4	93.6	108.9	124.2	139.5	196.3	294.6	392.9	491.2	589.6	584.3
117.5°	319.9	370.2	420.4	470.6	520.9	557.9	581.7	605.4	629.2	653.0	649.4
120°	582.9	611.5	640.2	668.9	697.5	710.6	708.0	705.5	703.0	700.4	696.6
122.5°	727.4	732.9	738.5	744.0	749.6	751.6	750.1	748.6	747.0	745.5	741.3
125°	817.0	816.3	815.7	815.1	814.4	813.4	811.9	810.4	808.9	807.4	803.4
127.5°	873.5	873.4	873.3	873.2	873.0	871.9	869.7	867.6	865.4	863.2	860.2
130°	908.7	908.9	909.1	909.3	909.6	908.5	906.2	903.8	901.5	899.2	896.8
132.5°	943.1	943.3	943.5	943.7	944.0	943.1	941.1	939.1	937.1	935.1	932.7
135°	992.8	993.2	993.6	994.1	994.5	993.6	991.5	989.4	987.3	985.2	983.2
137.5°	1038.1	1038.8	1039.5	1040.3	1041.0	1040.3	1038.2	1036.1	1034.1	1032.0	1029.8
140°	1066.4	1067.4	1068.5	1069.6	1070.6	1070.2	1068.3	1066.4	1064.5	1062.6	1060.2
142.5°	1093.9	1095.0	1096.0	1097.1	1098.1	1097.8	1096.1	1094.3	1092.6	1090.8	1088.2
145°	1132.3	1133.4	1134.4	1135.5	1136.6	1136.3	1134.9	1133.4	1131.9	1130.4	1126.8
147.5°	1166.1	1167.0	1167.9	1168.8	1169.7	1169.6	1168.5	1167.4	1166.3	1165.2	1161.6
150°	1186.8	1187.8	1188.9	1190.0	1191.0	1190.9	1189.6	1188.4	1187.1	1185.8	1182.4
152.5°	1204.4	1205.8	1207.2	1208.6	1210.0	1210.0	1208.7	1207.5	1206.2	1204.9	1201.7
155°	1228.8	1230.5	1232.2	1233.9	1235.6	1235.8	1234.5	1233.3	1232.0	1230.7	1228.2
157.5°	1251.2	1252.8	1254.5	1256.1	1257.8	1257.9	1256.5	1255.0	1253.6	1252.1	1250.3
160°	1264.2	1265.7	1267.1	1268.6	1270.1	1270.2	1268.9	1267.7	1266.4	1265.1	1263.9
162.5°	1274.9	1276.7	1278.5	1280.3	1282.2	1282.4	1280.9	1279.5	1278.0	1276.6	1275.5
165°	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9	1295.4	1293.9	1292.4	1290.9	1290.3
167.5°	1301.1	1303.0	1304.9	1306.8	1308.7	1308.9	1307.4	1305.9	1304.4	1303.0	1302.4
170°	1307.2	1309.1	1311.0	1312.9	1314.8	1315.0	1313.5	1312.1	1310.6	1309.1	1308.7
172.5°	1311.8	1313.7	1315.6	1317.5	1319.4	1319.6	1318.1	1316.6	1315.2	1313.7	1313.2
175°	1315.8	1317.9	1320.0	1322.1	1324.3	1324.6	1323.1	1321.6	1320.1	1318.6	1318.2
177.5°	1318.3	1319.8	1321.3	1322.8	1324.4	1324.5	1323.3	1322.2	1321.0	1319.8	1319.6
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1955.2	1951.0	1947.3	1937.7	1932.9	1922.3	1920.7	1920.2	1906.4	1893.1	1889.4
5°	2022.4	2011.8	1995.8	1977.3	1958.0	1938.1	1924.8	1914.2	1887.7	1862.5	1847.9
7.5°	2090.1	2067.2	2039.8	2004.6	1975.3	1942.4	1917.9	1896.0	1858.4	1822.3	1798.0
10°	2140.5	2103.3	2066.8	2018.4	1980.6	1943.4	1908.9	1879.1	1836.6	1788.8	1755.0
12.5°	2171.8	2130.9	2080.6	2033.3	1984.3	1937.0	1890.9	1852.5	1802.6	1753.3	1713.0
15°	2214.1	2170.3	2109.3	2041.6	1978.6	1916.9	1863.8	1816.0	1751.0	1691.9	1642.8
17.5°	2248.8	2188.5	2123.0	2044.7	1971.7	1893.3	1824.9	1763.9	1691.5	1620.3	1562.4
20°	2259.9	2200.2	2124.6	2046.3	1960.0	1867.8	1794.1	1727.8	1650.1	1572.5	1506.2
22.5°	2253.0	2206.6	2122.4	2028.7	1940.4	1843.9	1760.7	1683.7	1597.6	1518.4	1441.4
25°	2206.2	2190.2	2110.6	2008.4	1907.6	1795.5	1699.2	1615.0	1516.8	1431.9	1348.2
27.5°	2097.0	2131.3	2082.0	1973.1	1861.0	1740.8	1632.6	1536.7	1434.8	1339.2	1255.9
30°	1991.9	2070.8	2049.6	1948.7	1823.3	1705.2	1583.8	1483.6	1374.8	1276.6	1194.3
32.5°	1848.0	1978.4	1999.2	1914.8	1785.1	1655.3	1528.1	1428.4	1314.8	1211.3	1131.1
35°	1619.0	1814.0	1903.6	1849.9	1719.8	1579.8	1448.4	1332.3	1218.2	1116.0	1036.4
37.5°	1345.7	1611.4	1760.7	1764.5	1645.1	1499.5	1356.5	1241.2	1124.4	1024.1	937.9
40°	1168.4	1456.4	1650.8	1693.9	1593.1	1435.8	1291.2	1173.7	1059.6	961.4	862.6
42.5°	1009.2	1296.1	1535.1	1610.1	1529.9	1373.7	1228.6	1105.8	994.9	902.0	801.0
45°	816.1	1066.9	1330.3	1464.4	1419.9	1275.3	1122.0	1005.2	901.0	820.8	723.9
47.5°	688.5	865.2	1120.1	1301.4	1300.6	1168.6	1017.8	906.0	809.3	734.1	655.7
50°	615.7	769.7	985.3	1191.0	1208.2	1097.4	954.1	843.3	753.1	674.1	611.1
52.5°	550.4	677.3	871.2	1068.4	1117.5	1021.5	882.5	780.2	692.6	620.0	566.0
55°	465.1	563.3	710.6	895.1	969.4	901.7	778.3	682.8	611.8	550.7	504.3
57.5°	393.5	467.1	585.3	733.8	820.4	777.8	676.0	598.4	537.6	482.4	445.7
60°	348.3	408.7	508.9	633.0	728.5	698.7	611.8	539.4	487.7	439.9	405.4
62.5°	305.9	357.8	443.6	544.3	631.9	619.6	548.6	487.9	442.6	399.0	369.8
65°	246.2	284.0	351.0	430.0	500.3	506.3	455.2	414.0	373.6	339.1	313.2
67.5°	196.0	220.7	267.9	334.4	387.1	405.9	374.7	343.3	311.2	284.5	262.1
70°	165.2	185.1	219.6	273.4	321.8	341.7	323.8	299.2	271.4	249.5	230.2
72.5°	133.9	153.3	178.7	218.2	259.7	281.2	275.0	257.3	234.7	216.6	198.4
75°	100.9	106.8	124.1	150.6	183.1	201.7	206.4	197.1	179.1	165.2	154.6
77.5°	74.6	78.2	86.4	100.3	121.6	138.1	144.9	143.8	131.5	123.4	113.5
80°	59.7	61.7	65.7	71.7	87.6	104.2	108.8	108.8	100.2	96.9	86.9
82.5°	45.4	46.8	49.2	52.5	60.0	74.4	79.6	80.7	75.2	70.9	63.0
85°	25.9	25.2	26.5	28.5	29.9	33.8	41.8	43.1	41.8	36.5	34.5
87.5°	12.2	12.4	12.0	11.1	11.1	11.2	13.4	15.6	13.9	12.8	12.2
90°	15.7	14.0	12.3	10.3	8.0	5.6	3.3	1.0	3.3	5.6	8.0
92.5°	20.5	19.6	18.8	18.5	18.7	18.9	19.1	19.3	19.1	18.9	18.7
95°	34.3	32.8	31.3	34.1	41.1	48.1	55.1	62.1	55.1	48.1	41.1
97.5°	43.0	39.6	36.1	44.3	64.0	83.8	103.5	123.3	103.5	83.8	64.0
100°	47.2	43.6	40.0	52.8	81.9	110.9	140.0	169.1	140.0	110.9	81.9
102.5°	116.4	146.6	176.8	194.9	201.1	207.3	213.4	219.6	213.4	207.3	201.1
105°	174.2	232.2	290.2	316.0	309.6	303.2	296.9	290.5	296.9	303.2	309.6
107.5°	220.6	290.2	359.7	391.9	386.7	381.6	376.5	371.3	376.5	381.6	386.7
110°	290.0	351.3	412.7	441.1	436.7	432.2	427.8	423.3	427.8	432.2	436.7



TEST NUMBER: P331833

CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	452.1	467.3	482.4	488.0	484.1	480.1	476.2	472.2	476.2	480.1	484.1
115°	578.9	573.6	568.3	563.9	560.3	556.7	553.0	549.4	553.0	556.7	560.3
117.5°	645.7	642.1	638.4	634.6	630.5	626.5	622.5	618.4	622.5	626.5	630.5
120°	692.8	688.9	685.1	681.6	678.4	675.2	672.1	668.9	672.1	675.2	678.4
122.5°	737.2	733.0	728.9	725.1	721.7	718.4	715.0	711.7	715.0	718.4	721.7
125°	799.4	795.3	791.3	787.9	785.1	782.4	779.6	776.8	779.6	782.4	785.1
127.5°	857.2	854.2	851.2	848.1	845.1	842.0	839.0	835.9	839.0	842.0	845.1
130°	894.5	892.1	889.8	886.9	883.5	880.2	876.8	873.4	876.8	880.2	883.5
132.5°	930.4	928.1	925.7	923.1	920.2	917.4	914.5	911.6	914.5	917.4	920.2
135°	981.3	979.4	977.5	974.9	971.5	968.1	964.7	961.3	964.7	968.1	971.5
137.5°	1027.6	1025.5	1023.3	1021.0	1018.7	1016.3	1013.9	1011.5	1013.9	1016.3	1018.7
140°	1057.9	1055.5	1053.2	1051.2	1049.5	1047.8	1046.1	1044.4	1046.1	1047.8	1049.5
142.5°	1085.5	1082.8	1080.1	1078.0	1076.5	1075.0	1073.4	1071.9	1073.4	1075.0	1076.5
145°	1123.2	1119.6	1116.0	1114.3	1114.5	1114.7	1114.9	1115.1	1114.9	1114.7	1114.5
147.5°	1158.0	1154.5	1150.9	1149.5	1150.3	1151.1	1151.9	1152.8	1151.9	1151.1	1150.3
150°	1179.0	1175.6	1172.2	1171.3	1172.8	1174.2	1175.7	1177.2	1175.7	1174.2	1172.8
152.5°	1198.5	1195.2	1192.0	1191.2	1192.9	1194.5	1196.2	1197.9	1196.2	1194.5	1192.9
155°	1225.6	1223.1	1220.5	1220.2	1222.1	1224.0	1225.9	1227.9	1225.9	1224.0	1222.1
157.5°	1248.6	1246.8	1245.0	1244.9	1246.5	1248.1	1249.8	1251.4	1249.8	1248.1	1246.5
160°	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1263.9	1262.6	1261.3
162.5°	1274.4	1273.3	1272.2	1272.3	1273.5	1274.8	1276.1	1277.4	1276.1	1274.8	1273.5
165°	1289.6	1289.0	1288.4	1288.7	1290.0	1291.2	1292.5	1293.8	1292.5	1291.2	1290.0
167.5°	1301.8	1301.2	1300.6	1300.9	1302.2	1303.5	1304.7	1306.0	1304.7	1303.5	1302.2
170°	1308.2	1307.8	1307.4	1307.8	1309.1	1310.4	1311.6	1312.9	1311.6	1310.4	1309.1
172.5°	1312.8	1312.4	1312.0	1312.4	1313.7	1314.9	1316.2	1317.5	1316.2	1314.9	1313.7
175°	1317.8	1317.4	1316.9	1317.5	1319.0	1320.4	1321.9	1323.4	1321.9	1320.4	1319.0
177.5°	1319.4	1319.3	1319.1	1319.6	1320.8	1322.0	1323.2	1324.4	1323.2	1322.0	1320.8
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331833

CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1882.5	1878.8	1871.9	1861.3	1854.9	1843.8	1836.3	1840.6	1841.6	1840.6	1839.5
5°	1831.9	1818.0	1798.8	1780.2	1762.9	1744.4	1733.7	1729.1	1719.8	1714.5	1711.9
7.5°	1770.8	1746.8	1719.5	1687.2	1659.7	1630.9	1616.2	1608.9	1589.9	1579.5	1570.5
10°	1725.1	1687.3	1660.1	1617.6	1591.8	1553.9	1528.1	1528.7	1502.8	1488.2	1477.6
12.5°	1674.7	1633.2	1587.9	1549.7	1513.7	1483.3	1452.2	1439.5	1412.1	1398.0	1369.3
15°	1591.1	1542.7	1494.9	1443.1	1406.6	1359.5	1314.4	1259.3	1214.9	1176.4	1165.8
17.5°	1499.8	1439.8	1391.9	1331.1	1268.6	1189.4	1137.1	1105.1	1078.3	1058.0	1042.9
20°	1437.2	1376.1	1325.0	1233.5	1149.2	1095.5	1057.0	1032.4	1004.6	982.7	970.7
22.5°	1371.3	1307.6	1238.0	1135.8	1070.1	1027.0	992.7	964.5	945.6	928.5	917.6
25°	1277.9	1208.2	1093.5	1023.1	970.0	924.9	901.0	883.8	863.9	840.7	830.0
27.5°	1179.2	1068.4	986.0	933.7	883.0	853.7	832.2	806.4	788.6	778.2	767.1
30°	1105.4	994.6	930.2	873.2	837.3	804.8	779.6	765.0	747.8	729.9	722.6
32.5°	1023.1	934.6	872.9	825.4	789.0	761.3	741.4	717.8	705.3	694.3	679.0
35°	920.9	853.9	797.5	759.1	724.6	702.0	678.8	664.8	642.3	633.0	627.0
37.5°	834.4	776.3	734.2	693.6	666.3	641.3	627.1	605.0	595.2	582.3	569.7
40°	785.6	728.5	688.1	654.9	624.4	605.8	587.9	570.0	555.4	549.4	534.1
42.5°	735.7	689.3	648.8	612.4	592.0	572.3	549.7	536.5	521.4	511.7	502.3
45°	666.8	625.7	591.2	561.3	538.8	518.2	503.6	481.7	473.1	453.8	445.9
47.5°	606.3	568.1	535.2	506.8	484.8	471.4	450.0	432.9	419.1	407.3	397.0
50°	563.3	531.5	499.6	474.4	454.5	435.3	413.4	404.7	383.5	377.5	371.6
52.5°	524.0	493.8	464.6	439.9	420.0	401.3	382.0	370.8	356.4	350.5	346.1
55°	469.1	439.9	412.0	390.1	370.2	351.0	339.1	325.1	318.5	313.8	308.5
57.5°	413.9	387.6	366.3	344.1	324.1	308.8	295.0	286.6	279.7	273.6	267.3
60°	378.9	353.6	334.4	313.8	293.3	280.7	270.0	260.1	252.1	242.8	240.2
62.5°	341.7	319.7	302.0	282.0	264.1	252.5	242.4	233.0	223.5	209.9	206.2
65°	290.6	273.4	254.8	238.2	222.3	211.0	196.4	185.8	181.8	180.5	179.8
67.5°	244.4	228.1	212.2	195.2	180.7	170.3	162.8	161.2	158.4	157.6	155.8
70°	213.6	198.4	182.5	166.5	152.6	150.6	148.0	145.3	142.0	140.7	139.3
72.5°	186.0	170.3	154.3	141.6	135.6	133.1	130.4	127.8	125.5	124.2	123.4
75°	142.7	128.1	117.4	112.8	109.5	107.5	103.5	101.5	100.2	98.2	97.5
77.5°	102.7	94.5	89.6	86.7	83.2	81.1	78.8	76.8	75.4	75.0	73.9
80°	78.3	74.3	71.0	67.0	65.7	63.0	62.4	60.4	61.0	59.1	59.1
82.5°	60.8	55.7	52.9	51.1	49.8	47.6	47.0	46.0	46.2	44.7	44.7
85°	31.2	29.9	28.5	27.2	27.2	25.2	25.9	25.2	25.2	23.9	23.2
87.5°	12.1	12.0	11.3	11.6	12.0	11.8	12.0	11.7	11.9	12.1	11.7
90°	10.3	12.3	14.0	15.7	17.4	19.1	20.2	21.2	22.3	23.4	24.1
92.5°	18.5	18.8	19.6	20.5	21.3	22.2	22.7	23.3	23.8	24.4	24.8
95°	34.1	31.3	32.8	34.3	35.8	37.3	38.3	39.4	40.5	41.5	41.9
97.5°	44.3	36.1	39.6	43.0	46.4	49.9	50.7	51.6	52.4	53.3	53.8
100°	52.8	40.0	43.6	47.2	50.9	54.5	56.2	57.9	59.6	61.3	62.3
102.5°	194.9	176.8	146.6	116.4	86.2	56.0	58.2	60.4	62.6	64.8	66.2
105°	316.0	290.2	232.2	174.2	116.3	58.3	60.6	63.0	65.3	67.6	69.2
107.5°	391.9	359.7	290.2	220.6	151.1	81.6	79.2	76.8	74.5	72.1	71.3
110°	441.1	412.7	351.3	290.0	228.6	167.2	146.0	124.7	103.5	82.3	72.1



TEST NUMBER: P331833

CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	488.0	482.4	467.3	452.1	436.9	421.8	344.3	266.8	189.4	111.9	73.5
115°	563.9	568.3	573.6	578.9	584.3	589.6	491.2	392.9	294.6	196.3	139.5
117.5°	634.6	638.4	642.1	645.7	649.4	653.0	629.2	605.4	581.7	557.9	520.9
120°	681.6	685.1	688.9	692.8	696.6	700.4	703.0	705.5	708.0	710.6	697.5
122.5°	725.1	728.9	733.0	737.2	741.3	745.5	747.0	748.6	750.1	751.6	749.6
125°	787.9	791.3	795.3	799.4	803.4	807.4	808.9	810.4	811.9	813.4	814.4
127.5°	848.1	851.2	854.2	857.2	860.2	863.2	865.4	867.6	869.7	871.9	873.0
130°	886.9	889.8	892.1	894.5	896.8	899.2	901.5	903.8	906.2	908.5	909.6
132.5°	923.1	925.7	928.1	930.4	932.7	935.1	937.1	939.1	941.1	943.1	944.0
135°	974.9	977.5	979.4	981.3	983.2	985.2	987.3	989.4	991.5	993.6	994.5
137.5°	1021.0	1023.3	1025.5	1027.6	1029.8	1032.0	1034.1	1036.1	1038.2	1040.3	1041.0
140°	1051.2	1053.2	1055.5	1057.9	1060.2	1062.6	1064.5	1066.4	1068.3	1070.2	1070.6
142.5°	1078.0	1080.1	1082.8	1085.5	1088.2	1090.8	1092.6	1094.3	1096.1	1097.8	1098.1
145°	1114.3	1116.0	1119.6	1123.2	1126.8	1130.4	1131.9	1133.4	1134.9	1136.3	1136.6
147.5°	1149.5	1150.9	1154.5	1158.0	1161.6	1165.2	1166.3	1167.4	1168.5	1169.6	1169.7
150°	1171.3	1172.2	1175.6	1179.0	1182.4	1185.8	1187.1	1188.4	1189.6	1190.9	1191.0
152.5°	1191.2	1192.0	1195.2	1198.5	1201.7	1204.9	1206.2	1207.5	1208.7	1210.0	1210.0
155°	1220.2	1220.5	1223.1	1225.6	1228.2	1230.7	1232.0	1233.3	1234.5	1235.8	1235.6
157.5°	1244.9	1245.0	1246.8	1248.6	1250.3	1252.1	1253.6	1255.0	1256.5	1257.9	1257.8
160°	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1266.4	1267.7	1268.9	1270.2	1270.1
162.5°	1272.3	1272.2	1273.3	1274.4	1275.5	1276.6	1278.0	1279.5	1280.9	1282.4	1282.2
165°	1288.7	1288.4	1289.0	1289.6	1290.3	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9
167.5°	1300.9	1300.6	1301.2	1301.8	1302.4	1303.0	1304.4	1305.9	1307.4	1308.9	1308.7
170°	1307.8	1307.4	1307.8	1308.2	1308.7	1309.1	1310.6	1312.1	1313.5	1315.0	1314.8
172.5°	1312.4	1312.0	1312.4	1312.8	1313.2	1313.7	1315.2	1316.6	1318.1	1319.6	1319.4
175°	1317.5	1316.9	1317.4	1317.8	1318.2	1318.6	1320.1	1321.6	1323.1	1324.6	1324.3
177.5°	1319.6	1319.1	1319.3	1319.4	1319.6	1319.8	1321.0	1322.2	1323.3	1324.5	1324.4
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331833

CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1833.7	1834.7	1833.1	1834.2	1833.1	1834.7	1833.7	1839.5	1840.6	1841.6	1840.6
5°	1708.5	1700.6	1699.2	1697.3	1699.2	1700.6	1708.5	1711.9	1714.5	1719.8	1729.1
7.5°	1559.1	1557.9	1554.6	1550.0	1554.6	1557.9	1559.1	1570.5	1579.5	1589.9	1608.9
10°	1463.0	1459.7	1459.1	1454.4	1459.1	1459.7	1463.0	1477.6	1488.2	1502.8	1528.7
12.5°	1350.5	1329.1	1326.9	1315.3	1326.9	1329.1	1350.5	1369.3	1398.0	1412.1	1439.5
15°	1149.9	1145.9	1132.6	1124.0	1132.6	1145.9	1149.9	1165.8	1176.4	1214.9	1259.3
17.5°	1035.2	1022.2	1018.1	1016.2	1018.1	1022.2	1035.2	1042.9	1058.0	1078.3	1105.1
20°	961.4	949.5	947.5	946.2	947.5	949.5	961.4	970.7	982.7	1004.6	1032.4
22.5°	910.5	898.0	892.8	888.8	892.8	898.0	910.5	917.6	928.5	945.6	964.5
25°	823.4	818.8	816.1	814.8	816.1	818.8	823.4	830.0	840.7	863.9	883.8
27.5°	755.3	745.1	743.1	739.7	743.1	745.1	755.3	767.1	778.2	788.6	806.4
30°	716.6	713.3	708.6	704.6	708.6	713.3	716.6	722.6	729.9	747.8	765.0
32.5°	670.9	668.2	664.0	662.2	664.0	668.2	670.9	679.0	694.3	705.3	717.8
35°	620.4	611.1	607.1	601.1	607.1	611.1	620.4	627.0	633.0	642.3	664.8
37.5°	566.9	562.0	556.4	558.4	556.4	562.0	566.9	569.7	582.3	595.2	605.0
40°	525.5	522.2	520.9	520.2	520.9	522.2	525.5	534.1	549.4	555.4	570.0
42.5°	492.6	483.4	480.0	479.8	480.0	483.4	492.6	502.3	511.7	521.4	536.5
45°	442.6	433.9	428.0	428.6	428.0	433.9	442.6	445.9	453.8	473.1	481.7
47.5°	391.3	391.1	387.4	388.6	387.4	391.1	391.3	397.0	407.3	419.1	432.9
50°	366.9	362.9	360.3	360.9	360.3	362.9	366.9	371.6	377.5	383.5	404.7
52.5°	343.6	340.1	338.0	340.8	338.0	340.1	343.6	346.1	350.5	356.4	370.8
55°	305.2	301.2	300.6	299.9	300.6	301.2	305.2	308.5	313.8	318.5	325.1
57.5°	262.4	259.7	255.7	254.0	255.7	259.7	262.4	267.3	273.6	279.7	286.6
60°	231.6	226.3	219.6	219.0	219.6	226.3	231.6	240.2	242.8	252.1	260.1
62.5°	203.4	202.4	201.0	200.9	201.0	202.4	203.4	206.2	209.9	223.5	233.0
65°	178.5	177.8	178.5	179.1	178.5	177.8	178.5	179.8	180.5	181.8	185.8
67.5°	155.5	154.3	153.1	153.7	153.1	154.3	155.5	155.8	157.6	158.4	161.2
70°	138.0	137.3	136.7	136.7	136.7	137.3	138.0	139.3	140.7	142.0	145.3
72.5°	121.0	120.9	120.2	119.7	120.2	120.9	121.0	123.4	124.2	125.5	127.8
75°	96.9	95.5	95.5	95.5	95.5	95.5	96.9	97.5	98.2	100.2	101.5
77.5°	73.8	73.1	72.5	71.9	72.5	73.1	73.8	73.9	75.0	75.4	76.8
80°	58.4	57.7	57.1	57.1	57.1	57.7	58.4	59.1	59.1	61.0	60.4
82.5°	44.6	43.9	43.8	43.3	43.8	43.9	44.6	44.7	44.7	46.2	46.0
85°	23.9	24.5	23.9	25.2	23.9	24.5	23.9	23.2	23.9	25.2	25.2
87.5°	11.8	11.4	12.0	11.5	12.0	11.4	11.8	11.7	12.1	11.9	11.7
90°	24.5	24.9	25.4	25.8	25.4	24.9	24.5	24.1	23.4	22.3	21.2
92.5°	25.0	25.3	25.5	25.8	25.5	25.3	25.0	24.8	24.4	23.8	23.3
95°	41.7	41.5	41.3	41.1	41.3	41.5	41.7	41.9	41.5	40.5	39.4
97.5°	54.1	54.3	54.6	54.8	54.6	54.3	54.1	53.8	53.3	52.4	51.6
100°	62.7	63.2	63.6	64.0	63.6	63.2	62.7	62.3	61.3	59.6	57.9
102.5°	66.8	67.4	68.0	68.6	68.0	67.4	66.8	66.2	64.8	62.6	60.4
105°	70.1	70.9	71.8	72.6	71.8	70.9	70.1	69.2	67.6	65.3	63.0
107.5°	72.2	73.0	73.9	74.7	73.9	73.0	72.2	71.3	72.1	74.5	76.8
110°	72.9	73.8	74.6	75.5	74.6	73.8	72.9	72.1	82.3	103.5	124.7



TEST NUMBER: P331833

CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	74.2	74.9	75.6	76.3	75.6	74.9	74.2	73.5	111.9	189.4	266.8
115°	124.2	108.9	93.6	78.4	93.6	108.9	124.2	139.5	196.3	294.6	392.9
117.5°	470.6	420.4	370.2	319.9	370.2	420.4	470.6	520.9	557.9	581.7	605.4
120°	668.9	640.2	611.5	582.9	611.5	640.2	668.9	697.5	710.6	708.0	705.5
122.5°	744.0	738.5	732.9	727.4	732.9	738.5	744.0	749.6	751.6	750.1	748.6
125°	815.1	815.7	816.3	817.0	816.3	815.7	815.1	814.4	813.4	811.9	810.4
127.5°	873.2	873.3	873.4	873.5	873.4	873.3	873.2	873.0	871.9	869.7	867.6
130°	909.3	909.1	908.9	908.7	908.9	909.1	909.3	909.6	908.5	906.2	903.8
132.5°	943.7	943.5	943.3	943.1	943.3	943.5	943.7	944.0	943.1	941.1	939.1
135°	994.1	993.6	993.2	992.8	993.2	993.6	994.1	994.5	993.6	991.5	989.4
137.5°	1040.3	1039.5	1038.8	1038.1	1038.8	1039.5	1040.3	1041.0	1040.3	1038.2	1036.1
140°	1069.6	1068.5	1067.4	1066.4	1067.4	1068.5	1069.6	1070.6	1070.2	1068.3	1066.4
142.5°	1097.1	1096.0	1095.0	1093.9	1095.0	1096.0	1097.1	1098.1	1097.8	1096.1	1094.3
145°	1135.5	1134.4	1133.4	1132.3	1133.4	1134.4	1135.5	1136.6	1136.3	1134.9	1133.4
147.5°	1168.8	1167.9	1167.0	1166.1	1167.0	1167.9	1168.8	1169.7	1169.6	1168.5	1167.4
150°	1190.0	1188.9	1187.8	1186.8	1187.8	1188.9	1190.0	1191.0	1190.9	1189.6	1188.4
152.5°	1208.6	1207.2	1205.8	1204.4	1205.8	1207.2	1208.6	1210.0	1210.0	1208.7	1207.5
155°	1233.9	1232.2	1230.5	1228.8	1230.5	1232.2	1233.9	1235.6	1235.8	1234.5	1233.3
157.5°	1256.1	1254.5	1252.8	1251.2	1252.8	1254.5	1256.1	1257.8	1257.9	1256.5	1255.0
160°	1268.6	1267.1	1265.7	1264.2	1265.7	1267.1	1268.6	1270.1	1270.2	1268.9	1267.7
162.5°	1280.3	1278.5	1276.7	1274.9	1276.7	1278.5	1280.3	1282.2	1282.4	1280.9	1279.5
165°	1295.4	1293.9	1292.4	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9	1295.4	1293.9
167.5°	1306.8	1304.9	1303.0	1301.1	1303.0	1304.9	1306.8	1308.7	1308.9	1307.4	1305.9
170°	1312.9	1311.0	1309.1	1307.2	1309.1	1311.0	1312.9	1314.8	1315.0	1313.5	1312.1
172.5°	1317.5	1315.6	1313.7	1311.8	1313.7	1315.6	1317.5	1319.4	1319.6	1318.1	1316.6
175°	1322.1	1320.0	1317.9	1315.8	1317.9	1320.0	1322.1	1324.3	1324.6	1323.1	1321.6
177.5°	1322.8	1321.3	1319.8	1318.3	1319.8	1321.3	1322.8	1324.4	1324.5	1323.3	1322.2
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331833

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1836.3	1843.8	1854.9	1861.3	1871.9	1878.8	1882.5	1889.4	1893.1	1906.4	1920.2
5°	1733.7	1744.4	1762.9	1780.2	1798.8	1818.0	1831.9	1847.9	1862.5	1887.7	1914.2
7.5°	1616.2	1630.9	1659.7	1687.2	1719.5	1746.8	1770.8	1798.0	1822.3	1858.4	1896.0
10°	1528.1	1553.9	1591.8	1617.6	1660.1	1687.3	1725.1	1755.0	1788.8	1836.6	1879.1
12.5°	1452.2	1483.3	1513.7	1549.7	1587.9	1633.2	1674.7	1713.0	1753.3	1802.6	1852.5
15°	1314.4	1359.5	1406.6	1443.1	1494.9	1542.7	1591.1	1642.8	1691.9	1751.0	1816.0
17.5°	1137.1	1189.4	1268.6	1331.1	1391.9	1439.8	1499.8	1562.4	1620.3	1691.5	1763.9
20°	1057.0	1095.5	1149.2	1233.5	1325.0	1376.1	1437.2	1506.2	1572.5	1650.1	1727.8
22.5°	992.7	1027.0	1070.1	1135.8	1238.0	1307.6	1371.3	1441.4	1518.4	1597.6	1683.7
25°	901.0	924.9	970.0	1023.1	1093.5	1208.2	1277.9	1348.2	1431.9	1516.8	1615.0
27.5°	832.2	853.7	883.0	933.7	986.0	1068.4	1179.2	1255.9	1339.2	1434.8	1536.7
30°	779.6	804.8	837.3	873.2	930.2	994.6	1105.4	1194.3	1276.6	1374.8	1483.6
32.5°	741.4	761.3	789.0	825.4	872.9	934.6	1023.1	1131.1	1211.3	1314.8	1428.4
35°	678.8	702.0	724.6	759.1	797.5	853.9	920.9	1036.4	1116.0	1218.2	1332.3
37.5°	627.1	641.3	666.3	693.6	734.2	776.3	834.4	937.9	1024.1	1124.4	1241.2
40°	587.9	605.8	624.4	654.9	688.1	728.5	785.6	862.6	961.4	1059.6	1173.7
42.5°	549.7	572.3	592.0	612.4	648.8	689.3	735.7	801.0	902.0	994.9	1105.8
45°	503.6	518.2	538.8	561.3	591.2	625.7	666.8	723.9	820.8	901.0	1005.2
47.5°	450.0	471.4	484.8	506.8	535.2	568.1	606.3	655.7	734.1	809.3	906.0
50°	413.4	435.3	454.5	474.4	499.6	531.5	563.3	611.1	674.1	753.1	843.3
52.5°	382.0	401.3	420.0	439.9	464.6	493.8	524.0	566.0	620.0	692.6	780.2
55°	339.1	351.0	370.2	390.1	412.0	439.9	469.1	504.3	550.7	611.8	682.8
57.5°	295.0	308.8	324.1	344.1	366.3	387.6	413.9	445.7	482.4	537.6	598.4
60°	270.0	280.7	293.3	313.8	334.4	353.6	378.9	405.4	439.9	487.7	539.4
62.5°	242.4	252.5	264.1	282.0	302.0	319.7	341.7	369.8	399.0	442.6	487.9
65°	196.4	211.0	222.3	238.2	254.8	273.4	290.6	313.2	339.1	373.6	414.0
67.5°	162.8	170.3	180.7	195.2	212.2	228.1	244.4	262.1	284.5	311.2	343.3
70°	148.0	150.6	152.6	166.5	182.5	198.4	213.6	230.2	249.5	271.4	299.2
72.5°	130.4	133.1	135.6	141.6	154.3	170.3	186.0	198.4	216.6	234.7	257.3
75°	103.5	107.5	109.5	112.8	117.4	128.1	142.7	154.6	165.2	179.1	197.1
77.5°	78.8	81.1	83.2	86.7	89.6	94.5	102.7	113.5	123.4	131.5	143.8
80°	62.4	63.0	65.7	67.0	71.0	74.3	78.3	86.9	96.9	100.2	108.8
82.5°	47.0	47.6	49.8	51.1	52.9	55.7	60.8	63.0	70.9	75.2	80.7
85°	25.9	25.2	27.2	27.2	28.5	29.9	31.2	34.5	36.5	41.8	43.1
87.5°	12.0	11.8	12.0	11.6	11.3	12.0	12.1	12.2	12.8	13.9	15.6
90°	20.2	19.1	17.4	15.7	14.0	12.3	10.3	8.0	5.6	3.3	1.0
92.5°	22.7	22.2	21.3	20.5	19.6	18.8	18.5	18.7	18.9	19.1	19.3
95°	38.3	37.3	35.8	34.3	32.8	31.3	34.1	41.1	48.1	55.1	62.1
97.5°	50.7	49.9	46.4	43.0	39.6	36.1	44.3	64.0	83.8	103.5	123.3
100°	56.2	54.5	50.9	47.2	43.6	40.0	52.8	81.9	110.9	140.0	169.1
102.5°	58.2	56.0	86.2	116.4	146.6	176.8	194.9	201.1	207.3	213.4	219.6
105°	60.6	58.3	116.3	174.2	232.2	290.2	316.0	309.6	303.2	296.9	290.5
107.5°	79.2	81.6	151.1	220.6	290.2	359.7	391.9	386.7	381.6	376.5	371.3
110°	146.0	167.2	228.6	290.0	351.3	412.7	441.1	436.7	432.2	427.8	423.3



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CATALOG NUMBER: S122RDIW-S865D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	344.3	421.8	436.9	452.1	467.3	482.4	488.0	484.1	480.1	476.2	472.2
115°	491.2	589.6	584.3	578.9	573.6	568.3	563.9	560.3	556.7	553.0	549.4
117.5°	629.2	653.0	649.4	645.7	642.1	638.4	634.6	630.5	626.5	622.5	618.4
120°	703.0	700.4	696.6	692.8	688.9	685.1	681.6	678.4	675.2	672.1	668.9
122.5°	747.0	745.5	741.3	737.2	733.0	728.9	725.1	721.7	718.4	715.0	711.7
125°	808.9	807.4	803.4	799.4	795.3	791.3	787.9	785.1	782.4	779.6	776.8
127.5°	865.4	863.2	860.2	857.2	854.2	851.2	848.1	845.1	842.0	839.0	835.9
130°	901.5	899.2	896.8	894.5	892.1	889.8	886.9	883.5	880.2	876.8	873.4
132.5°	937.1	935.1	932.7	930.4	928.1	925.7	923.1	920.2	917.4	914.5	911.6
135°	987.3	985.2	983.2	981.3	979.4	977.5	974.9	971.5	968.1	964.7	961.3
137.5°	1034.1	1032.0	1029.8	1027.6	1025.5	1023.3	1021.0	1018.7	1016.3	1013.9	1011.5
140°	1064.5	1062.6	1060.2	1057.9	1055.5	1053.2	1051.2	1049.5	1047.8	1046.1	1044.4
142.5°	1092.6	1090.8	1088.2	1085.5	1082.8	1080.1	1078.0	1076.5	1075.0	1073.4	1071.9
145°	1131.9	1130.4	1126.8	1123.2	1119.6	1116.0	1114.3	1114.5	1114.7	1114.9	1115.1
147.5°	1166.3	1165.2	1161.6	1158.0	1154.5	1150.9	1149.5	1150.3	1151.1	1151.9	1152.8
150°	1187.1	1185.8	1182.4	1179.0	1175.6	1172.2	1171.3	1172.8	1174.2	1175.7	1177.2
152.5°	1206.2	1204.9	1201.7	1198.5	1195.2	1192.0	1191.2	1192.9	1194.5	1196.2	1197.9
155°	1232.0	1230.7	1228.2	1225.6	1223.1	1220.5	1220.2	1222.1	1224.0	1225.9	1227.9
157.5°	1253.6	1252.1	1250.3	1248.6	1246.8	1245.0	1244.9	1246.5	1248.1	1249.8	1251.4
160°	1266.4	1265.1	1263.9	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1
162.5°	1278.0	1276.6	1275.5	1274.4	1273.3	1272.2	1272.3	1273.5	1274.8	1276.1	1277.4
165°	1292.4	1290.9	1290.3	1289.6	1289.0	1288.4	1288.7	1290.0	1291.2	1292.5	1293.8
167.5°	1304.4	1303.0	1302.4	1301.8	1301.2	1300.6	1300.9	1302.2	1303.5	1304.7	1306.0
170°	1310.6	1309.1	1308.7	1308.2	1307.8	1307.4	1307.8	1309.1	1310.4	1311.6	1312.9
172.5°	1315.2	1313.7	1313.2	1312.8	1312.4	1312.0	1312.4	1313.7	1314.9	1316.2	1317.5
175°	1320.1	1318.6	1318.2	1317.8	1317.4	1316.9	1317.5	1319.0	1320.4	1321.9	1323.4
177.5°	1321.0	1319.8	1319.6	1319.4	1319.3	1319.1	1319.6	1320.8	1322.0	1323.2	1324.4
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331833

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1920.7	1922.3	1932.9	1937.7	1947.3	1951.0	1955.2	1954.2	1954.2	1956.3	1971.2
5°	1924.8	1938.1	1958.0	1977.3	1995.8	2011.8	2022.4	2033.0	2037.0	2056.2	2073.5
7.5°	1917.9	1942.4	1975.3	2004.6	2039.8	2067.2	2090.1	2110.6	2124.7	2152.7	2181.4
10°	1908.9	1943.4	1980.6	2018.4	2066.8	2103.3	2140.5	2169.0	2178.3	2220.1	2244.0
12.5°	1890.9	1937.0	1984.3	2033.3	2080.6	2130.9	2171.8	2200.3	2233.0	2270.5	2314.6
15°	1863.8	1916.9	1978.6	2041.6	2109.3	2170.3	2214.1	2263.9	2299.7	2340.9	2379.3
17.5°	1824.9	1893.3	1971.7	2044.7	2123.0	2188.5	2248.8	2296.5	2321.7	2345.2	2350.9
20°	1794.1	1867.8	1960.0	2046.3	2124.6	2200.2	2259.9	2299.7	2306.4	2307.0	2271.9
22.5°	1760.7	1843.9	1940.4	2028.7	2122.4	2206.6	2253.0	2270.0	2243.7	2198.7	2130.7
25°	1699.2	1795.5	1907.6	2008.4	2110.6	2190.2	2206.2	2176.3	2084.1	1987.2	1864.5
27.5°	1632.6	1740.8	1861.0	1973.1	2082.0	2131.3	2097.0	1989.3	1823.2	1678.8	1503.8
30°	1583.8	1705.2	1823.3	1948.7	2049.6	2070.8	1991.9	1833.3	1639.5	1421.9	1247.4
32.5°	1528.1	1655.3	1785.1	1914.8	1999.2	1978.4	1848.0	1652.8	1425.6	1211.7	1046.8
35°	1448.4	1579.8	1719.8	1849.9	1903.6	1814.0	1619.0	1364.8	1132.6	932.9	819.4
37.5°	1356.5	1499.5	1645.1	1764.5	1760.7	1611.4	1345.7	1083.4	888.2	770.1	689.3
40°	1291.2	1435.8	1593.1	1693.9	1650.8	1456.4	1168.4	920.9	778.3	684.1	625.0
42.5°	1228.6	1373.7	1529.9	1610.1	1535.1	1296.1	1009.2	815.3	697.6	624.1	576.2
45°	1122.0	1275.3	1419.9	1464.4	1330.3	1066.9	816.1	675.5	597.2	542.7	509.6
47.5°	1017.8	1168.6	1300.6	1301.4	1120.1	865.2	688.5	584.6	517.7	475.6	451.5
50°	954.1	1097.4	1208.2	1191.0	985.3	769.7	615.7	526.2	470.4	437.9	412.7
52.5°	882.5	1021.5	1117.5	1068.4	871.2	677.3	550.4	475.2	429.0	400.8	378.2
55°	778.3	901.7	969.4	895.1	710.6	563.3	465.1	406.1	371.6	347.7	328.4
57.5°	676.0	777.8	820.4	733.8	585.3	467.1	393.5	349.1	314.9	297.8	287.8
60°	611.8	698.7	728.5	633.0	508.9	408.7	348.3	307.2	282.0	270.7	260.8
62.5°	548.6	619.6	631.9	544.3	443.6	357.8	305.9	271.1	254.4	243.6	234.2
65°	455.2	506.3	500.3	430.0	351.0	284.0	246.2	224.9	212.3	197.1	180.5
67.5°	374.7	405.9	387.1	334.4	267.9	220.7	196.0	179.9	164.3	149.8	146.0
70°	323.8	341.7	321.8	273.4	219.6	185.1	165.2	146.0	136.7	133.4	127.4
72.5°	275.0	281.2	259.7	218.2	178.7	153.3	133.9	123.1	118.1	115.3	111.5
75°	206.4	201.7	183.1	150.6	124.1	106.8	100.9	96.9	93.6	90.9	88.9
77.5°	144.9	138.1	121.6	100.3	86.4	78.2	74.6	72.5	70.9	69.5	67.5
80°	108.8	104.2	87.6	71.7	65.7	61.7	59.7	57.1	57.1	55.7	53.7
82.5°	79.6	74.4	60.0	52.5	49.2	46.8	45.4	43.8	43.3	43.5	42.1
85°	41.8	33.8	29.9	28.5	26.5	25.2	25.9	24.5	24.5	24.5	23.9
87.5°	13.4	11.2	11.1	11.1	12.0	12.4	12.2	12.5	13.4	13.1	13.8
90°	3.3	5.6	8.0	10.3	12.3	14.0	15.7	17.4	19.1	20.2	21.2
92.5°	19.1	18.9	18.7	18.5	18.8	19.6	20.5	21.3	22.2	22.7	23.3
95°	55.1	48.1	41.1	34.1	31.3	32.8	34.3	35.8	37.3	38.3	39.4
97.5°	103.5	83.8	64.0	44.3	36.1	39.6	43.0	46.4	49.9	50.7	51.6
100°	140.0	110.9	81.9	52.8	40.0	43.6	47.2	50.9	54.5	56.2	57.9
102.5°	213.4	207.3	201.1	194.9	176.8	146.6	116.4	86.2	56.0	58.2	60.4
105°	296.9	303.2	309.6	316.0	290.2	232.2	174.2	116.3	58.3	60.6	63.0
107.5°	376.5	381.6	386.7	391.9	359.7	290.2	220.6	151.1	81.6	79.2	76.8
110°	427.8	432.2	436.7	441.1	412.7	351.3	290.0	228.6	167.2	146.0	124.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	476.2	480.1	484.1	488.0	482.4	467.3	452.1	436.9	421.8	344.3	266.8
115°	553.0	556.7	560.3	563.9	568.3	573.6	578.9	584.3	589.6	491.2	392.9
117.5°	622.5	626.5	630.5	634.6	638.4	642.1	645.7	649.4	653.0	629.2	605.4
120°	672.1	675.2	678.4	681.6	685.1	688.9	692.8	696.6	700.4	703.0	705.5
122.5°	715.0	718.4	721.7	725.1	728.9	733.0	737.2	741.3	745.5	747.0	748.6
125°	779.6	782.4	785.1	787.9	791.3	795.3	799.4	803.4	807.4	808.9	810.4
127.5°	839.0	842.0	845.1	848.1	851.2	854.2	857.2	860.2	863.2	865.4	867.6
130°	876.8	880.2	883.5	886.9	889.8	892.1	894.5	896.8	899.2	901.5	903.8
132.5°	914.5	917.4	920.2	923.1	925.7	928.1	930.4	932.7	935.1	937.1	939.1
135°	964.7	968.1	971.5	974.9	977.5	979.4	981.3	983.2	985.2	987.3	989.4
137.5°	1013.9	1016.3	1018.7	1021.0	1023.3	1025.5	1027.6	1029.8	1032.0	1034.1	1036.1
140°	1046.1	1047.8	1049.5	1051.2	1053.2	1055.5	1057.9	1060.2	1062.6	1064.5	1066.4
142.5°	1073.4	1075.0	1076.5	1078.0	1080.1	1082.8	1085.5	1088.2	1090.8	1092.6	1094.3
145°	1114.9	1114.7	1114.5	1114.3	1116.0	1119.6	1123.2	1126.8	1130.4	1131.9	1133.4
147.5°	1151.9	1151.1	1150.3	1149.5	1150.9	1154.5	1158.0	1161.6	1165.2	1166.3	1167.4
150°	1175.7	1174.2	1172.8	1171.3	1172.2	1175.6	1179.0	1182.4	1185.8	1187.1	1188.4
152.5°	1196.2	1194.5	1192.9	1191.2	1192.0	1195.2	1198.5	1201.7	1204.9	1206.2	1207.5
155°	1225.9	1224.0	1222.1	1220.2	1220.5	1223.1	1225.6	1228.2	1230.7	1232.0	1233.3
157.5°	1249.8	1248.1	1246.5	1244.9	1245.0	1246.8	1248.6	1250.3	1252.1	1253.6	1255.0
160°	1263.9	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1266.4	1267.7
162.5°	1276.1	1274.8	1273.5	1272.3	1272.2	1273.3	1274.4	1275.5	1276.6	1278.0	1279.5
165°	1292.5	1291.2	1290.0	1288.7	1288.4	1289.0	1289.6	1290.3	1290.9	1292.4	1293.9
167.5°	1304.7	1303.5	1302.2	1300.9	1300.6	1301.2	1301.8	1302.4	1303.0	1304.4	1305.9
170°	1311.6	1310.4	1309.1	1307.8	1307.4	1307.8	1308.2	1308.7	1309.1	1310.6	1312.1
172.5°	1316.2	1314.9	1313.7	1312.4	1312.0	1312.4	1312.8	1313.2	1313.7	1315.2	1316.6
175°	1321.9	1320.4	1319.0	1317.5	1316.9	1317.4	1317.8	1318.2	1318.6	1320.1	1321.6
177.5°	1323.2	1322.0	1320.8	1319.6	1319.1	1319.3	1319.4	1319.6	1319.8	1321.0	1322.2
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1976.5	1983.4	1986.5	1986.5	1990.3	1988.7	1987.1
5°	2090.1	2102.7	2105.3	2117.3	2125.9	2123.2	2124.6
7.5°	2203.0	2223.3	2243.3	2252.5	2253.9	2259.2	2261.2
10°	2272.5	2289.1	2320.3	2315.6	2338.9	2352.1	2330.2
12.5°	2339.4	2361.8	2383.5	2389.4	2402.6	2406.8	2398.2
15°	2399.9	2411.9	2413.2	2409.9	2413.8	2410.5	2397.9
17.5°	2343.4	2324.0	2284.7	2266.1	2251.4	2229.7	2220.9
20°	2250.0	2192.9	2126.5	2100.0	2068.8	2007.8	2022.4
22.5°	2048.3	1983.2	1916.9	1839.4	1802.4	1744.5	1741.0
25°	1734.4	1622.3	1498.9	1412.6	1362.2	1304.5	1279.2
27.5°	1348.5	1207.3	1106.2	1055.0	1008.4	962.6	960.8
30°	1094.8	988.6	910.3	866.5	838.0	818.8	822.8
32.5°	922.8	850.1	797.3	760.9	739.8	725.3	725.1
35°	754.4	704.6	670.8	655.5	640.3	629.7	630.3
37.5°	645.6	615.7	596.9	580.0	570.5	565.3	562.4
40°	589.9	565.3	550.7	540.8	532.8	525.5	524.2
42.5°	545.8	525.5	510.9	503.1	495.6	490.5	489.1
45°	484.4	467.8	454.5	445.9	442.6	437.9	437.9
47.5°	430.9	414.6	404.2	398.8	393.1	390.0	389.9
50°	394.8	382.2	372.9	369.6	364.9	362.9	362.3
52.5°	362.4	353.0	346.4	344.1	342.1	339.6	340.0
55°	318.5	313.2	310.5	308.5	305.2	301.2	303.9
57.5°	281.5	276.9	269.8	263.5	260.5	257.7	258.8
60°	255.5	246.2	236.9	229.6	227.6	221.6	221.6
62.5°	222.5	209.5	198.1	194.0	192.0	189.2	188.7
65°	171.2	165.9	163.2	160.6	159.2	159.2	157.9
67.5°	141.9	139.7	136.8	136.2	134.8	134.4	134.0
70°	125.4	122.7	121.4	120.8	119.4	120.1	118.1
72.5°	109.5	107.4	107.1	105.4	104.6	104.7	103.2
75°	86.3	86.3	85.6	84.9	83.6	82.9	83.6
77.5°	66.4	66.5	65.3	65.2	65.0	65.2	64.5
80°	53.1	53.7	53.1	52.4	51.8	52.4	51.8
82.5°	41.9	41.0	40.9	40.7	40.6	40.2	40.1
85°	23.9	24.5	23.9	23.2	23.2	23.2	23.9
87.5°	13.5	13.7	13.8	13.9	14.0	14.1	13.7
90°	22.3	23.4	24.1	24.5	24.9	25.4	25.8
92.5°	23.8	24.4	24.8	25.0	25.3	25.5	25.8
95°	40.5	41.5	41.9	41.7	41.5	41.3	41.1
97.5°	52.4	53.3	53.8	54.1	54.3	54.6	54.8
100°	59.6	61.3	62.3	62.7	63.2	63.6	64.0
102.5°	62.6	64.8	66.2	66.8	67.4	68.0	68.6
105°	65.3	67.6	69.2	70.1	70.9	71.8	72.6
107.5°	74.5	72.1	71.3	72.2	73.0	73.9	74.7
110°	103.5	82.3	72.1	72.9	73.8	74.6	75.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	189.4	111.9	73.5	74.2	74.9	75.6	76.3
115°	294.6	196.3	139.5	124.2	108.9	93.6	78.4
117.5°	581.7	557.9	520.9	470.6	420.4	370.2	319.9
120°	708.0	710.6	697.5	668.9	640.2	611.5	582.9
122.5°	750.1	751.6	749.6	744.0	738.5	732.9	727.4
125°	811.9	813.4	814.4	815.1	815.7	816.3	817.0
127.5°	869.7	871.9	873.0	873.2	873.3	873.4	873.5
130°	906.2	908.5	909.6	909.3	909.1	908.9	908.7
132.5°	941.1	943.1	944.0	943.7	943.5	943.3	943.1
135°	991.5	993.6	994.5	994.1	993.6	993.2	992.8
137.5°	1038.2	1040.3	1041.0	1040.3	1039.5	1038.8	1038.1
140°	1068.3	1070.2	1070.6	1069.6	1068.5	1067.4	1066.4
142.5°	1096.1	1097.8	1098.1	1097.1	1096.0	1095.0	1093.9
145°	1134.9	1136.3	1136.6	1135.5	1134.4	1133.4	1132.3
147.5°	1168.5	1169.6	1169.7	1168.8	1167.9	1167.0	1166.1
150°	1189.6	1190.9	1191.0	1190.0	1188.9	1187.8	1186.8
152.5°	1208.7	1210.0	1210.0	1208.6	1207.2	1205.8	1204.4
155°	1234.5	1235.8	1235.6	1233.9	1232.2	1230.5	1228.8
157.5°	1256.5	1257.9	1257.8	1256.1	1254.5	1252.8	1251.2
160°	1268.9	1270.2	1270.1	1268.6	1267.1	1265.7	1264.2
162.5°	1280.9	1282.4	1282.2	1280.3	1278.5	1276.7	1274.9
165°	1295.4	1296.9	1296.9	1295.4	1293.9	1292.4	1290.9
167.5°	1307.4	1308.9	1308.7	1306.8	1304.9	1303.0	1301.1
170°	1313.5	1315.0	1314.8	1312.9	1311.0	1309.1	1307.2
172.5°	1318.1	1319.6	1319.4	1317.5	1315.6	1313.7	1311.8
175°	1323.1	1324.6	1324.3	1322.1	1320.0	1317.9	1315.8
177.5°	1323.3	1324.5	1324.4	1322.8	1321.3	1319.8	1318.3
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5

(END OF REPORT)