

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: P331723-830

Luminaire Tested: **SA2XXRDIP-C865D925U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331723-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C865D925U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

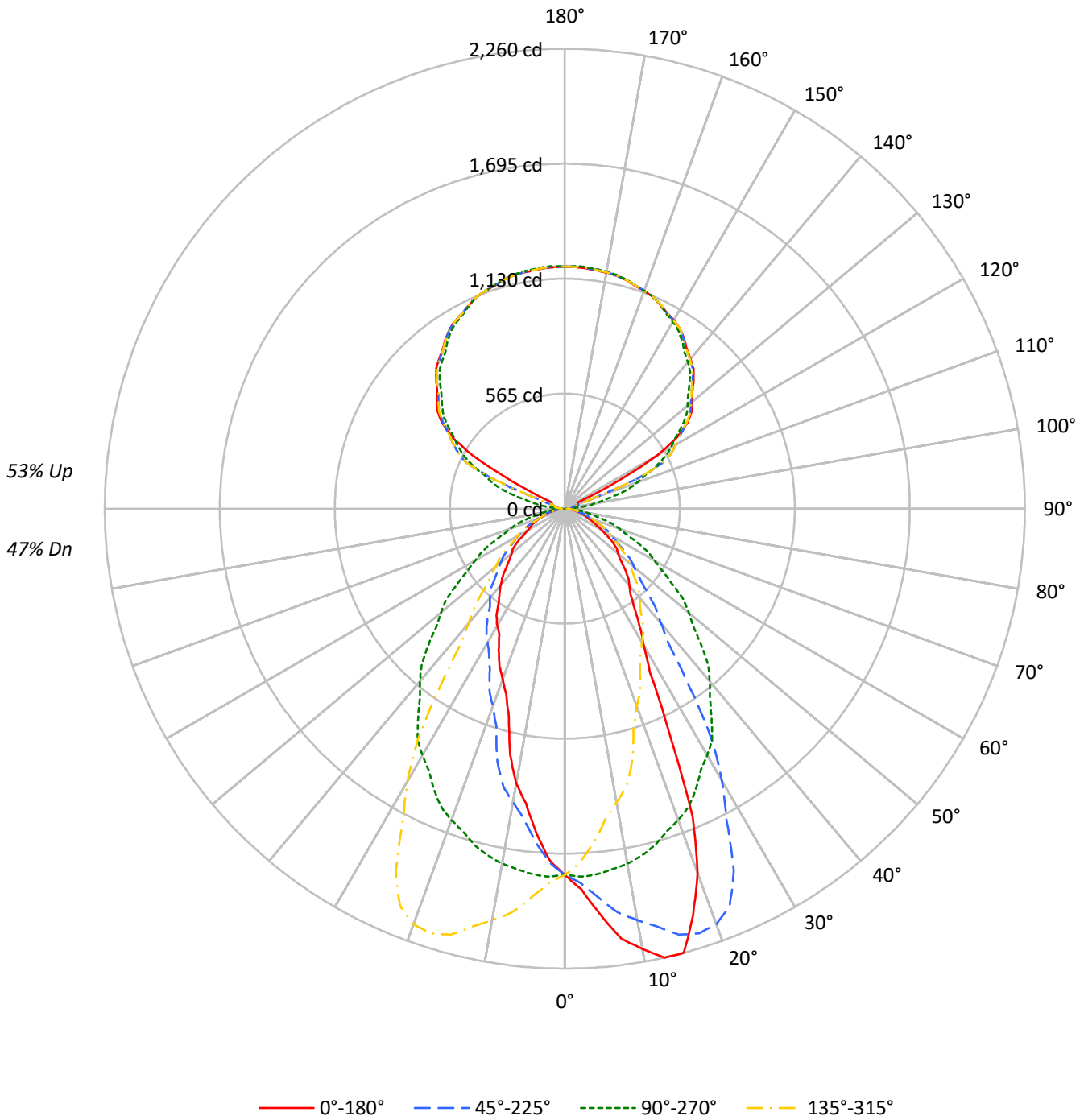
Lumens per Lamp: N/A
Luminaire Lumens: 6599.8 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.5
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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	98	94	90	87	90	86	83	81	73	71	69	60	59	57	48	47	47	41				41
2	90	83	77	72	82	76	72	67	65	61	58	54	51	49	44	42	40	36				36
3	82	74	67	61	76	68	62	57	58	53	50	48	45	42	39	37	35	31				31
4	76	66	58	53	70	61	54	49	52	47	43	43	40	37	36	33	31	28				28
5	70	59	51	46	64	55	48	43	47	42	38	39	36	33	33	30	28	25				25
6	65	53	46	40	59	50	43	38	43	37	33	36	32	29	30	27	25	22				22
7	60	48	41	35	55	45	38	34	39	34	30	33	29	26	28	25	23	20				20
8	56	44	37	32	52	41	35	30	36	31	27	30	27	24	26	23	20	18				18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	24	21	19	17				17
10	49	37	30	26	45	35	29	25	30	26	22	26	22	20	22	19	17	15				15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29061	29061	29061	29061
5°	32456	29242	25929	29242
10°	36008	29037	22474	29037
15°	37778	28612	17708	28612
20°	32752	27981	15323	27981
25°	21480	27118	13682	27118
30°	14458	26071	12381	26071
35°	11710	24750	11168	24750
40°	10414	23317	10334	23317
45°	9423	21633	9225	21633
50°	8578	19964	8545	19964
55°	8062	18117	7958	18117
60°	6746	16417	6665	16417
65°	5685	14907	6449	14907
70°	5254	13312	6080	13312
75°	4916	11591	5614	11591
80°	4537	9530	5002	9530
85°	4168	7521	4409	7521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	2.6
10°-20°	475.4	7.2
20°-30°	612.6	9.3
30°-40°	582.2	8.8
40°-50°	498.7	7.6
50°-60°	379.8	5.8
60°-70°	240.1	3.6
70°-80°	119.9	1.8
80°-90°	34.1	0.5
90°-100°	39.7	0.6
100°-110°	145.5	2.2
110°-120°	389.0	5.9
120°-130°	642.1	9.7
130°-140°	682.9	10.3
140°-150°	634.7	9.6
150°-160°	510.3	7.7
160°-170°	328.8	5.0
170°-180°	113.2	1.7
0°-30°	1258.6	19.1
0°-40°	1840.8	27.9
0°-60°	2719.4	41.2
0°-90°	3113.5	47.2
90°-120°	574.2	8.7
90°-150°	2533.9	38.4
90°-180°	3486.0	52.8
0°-180°	6599.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1800	1800	1800	1800	1800	
5°	2002	1804	1600	1804	2002	198
15°	2260	1712	1059	1712	2260	610
25°	1206	1522	768	1522	1206	572
35°	594	1256	567	1256	594	380
45°	413	947	404	947	413	319
55°	286	644	283	644	286	251
65°	149	390	169	390	149	152
75°	79	186	90	186	79	84
85°	22	41	24	41	22	25
90°	23	1	23	1	23	11
95°	37	56	37	56	37	35
105°	65	262	65	262	65	68
115°	71	495	71	495	71	177
125°	736	700	736	700	736	637
135°	894	866	894	866	894	689
145°	1020	1005	1020	1005	1020	638
155°	1107	1106	1107	1106	1107	511
165°	1163	1166	1163	1166	1163	328
175°	1185	1192	1185	1192	1185	113
180°	1190	1190	1190	1190	1190	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1872.9	1874.4	1875.9	1872.4	1872.4	1869.4	1862.9	1857.9	1843.9	1841.9	1841.9
5°	2002.5	2001.2	2003.8	1995.6	1984.3	1981.9	1970.0	1954.4	1938.1	1920.0	1916.2
7.5°	2131.3	2129.4	2124.4	2123.1	2114.4	2095.6	2076.4	2056.1	2029.0	2002.6	1989.3
10°	2196.3	2217.0	2204.5	2182.6	2187.0	2157.6	2141.9	2115.1	2092.5	2053.1	2044.4
12.5°	2260.4	2268.5	2264.6	2252.1	2246.6	2226.1	2205.0	2181.6	2140.0	2104.7	2073.9
15°	2260.1	2272.0	2275.1	2271.4	2274.5	2273.3	2262.0	2242.6	2206.4	2167.6	2133.8
17.5°	2093.3	2101.6	2122.0	2135.9	2153.4	2190.5	2208.8	2215.8	2210.5	2188.3	2164.5
20°	1906.2	1892.4	1949.9	1979.3	2004.3	2066.9	2120.7	2141.4	2174.4	2173.9	2167.6
22.5°	1641.0	1644.3	1698.8	1733.7	1806.8	1869.3	1930.6	2008.3	2072.4	2114.8	2139.6
25°	1205.7	1229.5	1283.9	1331.4	1412.8	1529.1	1634.7	1757.4	1873.0	1964.4	2051.3
27.5°	905.6	907.3	950.5	994.4	1042.6	1137.9	1271.0	1417.4	1582.3	1718.4	1875.0
30°	775.5	771.8	789.9	816.7	858.0	931.8	1031.9	1175.7	1340.2	1545.3	1728.0
32.5°	683.4	683.6	697.3	717.2	751.5	801.3	869.8	986.7	1142.1	1343.7	1557.8
35°	594.1	593.5	603.5	617.8	632.3	664.1	711.1	772.3	879.3	1067.5	1286.4
37.5°	530.1	532.8	537.7	546.7	562.6	580.3	608.5	649.7	725.9	837.2	1021.2
40°	494.1	495.3	502.2	509.7	519.1	532.8	556.0	589.1	644.8	733.6	868.0
42.5°	461.0	462.3	467.1	474.2	481.5	495.3	514.4	543.1	588.2	657.5	768.5
45°	412.7	412.7	417.2	420.3	428.4	440.9	456.6	480.3	511.5	562.9	636.7
47.5°	367.5	367.6	370.5	375.9	381.0	390.8	406.1	425.6	448.3	488.0	551.0
50°	341.5	342.0	343.9	348.4	351.5	360.2	372.1	389.0	412.7	443.4	496.0
52.5°	320.5	320.1	322.4	324.3	326.5	332.7	341.6	356.5	377.8	404.4	447.9
55°	286.4	283.9	287.7	290.8	292.7	295.2	300.2	309.5	327.7	350.2	382.8
57.5°	243.9	242.9	245.5	248.4	254.3	261.0	265.3	271.3	280.7	296.8	329.0
60°	208.9	208.9	214.5	216.4	223.3	232.1	240.8	245.8	255.1	265.8	289.5
62.5°	177.9	178.3	181.0	182.9	186.7	197.5	209.7	220.7	229.6	239.8	255.5
65°	148.8	150.1	150.1	151.4	153.8	156.4	161.4	170.1	185.8	200.1	212.0
67.5°	126.3	126.7	127.1	128.4	128.9	131.7	133.7	137.6	141.2	154.9	169.6
70°	111.3	113.2	112.5	113.9	114.4	115.6	118.2	120.1	125.7	128.8	137.6
72.5°	97.3	98.7	98.6	99.3	100.9	101.2	103.2	105.1	108.7	111.3	116.0
75°	78.8	78.1	78.8	80.0	80.7	81.3	81.3	83.8	85.7	88.2	91.3
77.5°	60.8	61.5	61.3	61.5	61.5	62.7	62.6	63.6	65.5	66.8	68.3
80°	48.8	49.4	48.8	49.4	50.0	50.6	50.0	50.6	52.5	53.8	53.8
82.5°	37.8	37.9	38.3	38.4	38.5	38.6	39.5	39.7	41.0	40.8	41.3
85°	22.5	21.9	21.9	21.9	22.5	23.1	22.5	22.5	23.1	23.1	23.1
87.5°	12.6	13.1	13.0	12.9	12.8	12.7	12.5	12.8	12.2	12.4	11.7
90°	23.3	22.9	22.4	22.1	21.7	21.0	20.1	19.1	18.2	17.2	15.6
92.5°	23.3	23.0	22.8	22.5	22.3	22.0	21.5	20.9	20.5	20.0	19.2
95°	37.0	37.2	37.4	37.6	37.8	37.4	36.5	35.4	34.5	33.6	32.2
97.5°	49.4	49.2	48.9	48.7	48.4	48.0	47.2	46.5	45.7	45.0	41.8
100°	57.7	57.3	56.9	56.6	56.2	55.2	53.6	52.1	50.6	49.1	45.8
102.5°	61.8	61.3	60.7	60.2	59.7	58.4	56.5	54.4	52.4	50.4	77.7
105°	65.4	64.7	63.9	63.2	62.4	60.9	58.8	56.7	54.6	52.5	104.7
107.5°	67.3	66.5	65.8	65.0	64.3	64.9	67.1	69.2	71.4	73.5	136.1
110°	68.1	67.2	66.4	65.7	64.9	74.1	93.2	112.4	131.5	150.6	205.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	68.7	68.1	67.5	66.8	66.3	100.9	170.6	240.4	310.2	379.9	393.6
115°	70.6	84.4	98.1	111.9	125.6	176.8	265.4	354.0	442.5	531.1	526.3
117.5°	288.2	333.5	378.7	424.0	469.2	502.6	524.1	545.4	566.8	588.2	585.0
120°	525.1	550.9	576.7	602.6	628.4	640.2	637.9	635.6	633.3	630.9	627.5
122.5°	655.3	660.3	665.2	670.3	675.3	677.1	675.7	674.4	673.0	671.7	667.9
125°	736.0	735.5	734.8	734.2	733.7	732.7	731.4	730.1	728.8	727.4	723.8
127.5°	786.9	786.8	786.7	786.6	786.5	785.5	783.5	781.6	779.6	777.7	775.0
130°	818.6	818.8	819.0	819.3	819.4	818.4	816.3	814.3	812.1	810.0	807.9
132.5°	849.6	849.8	850.0	850.2	850.4	849.6	847.8	846.0	844.2	842.4	840.3
135°	894.4	894.8	895.1	895.5	895.9	895.1	893.2	891.4	889.4	887.5	885.8
137.5°	935.2	935.9	936.5	937.2	937.8	937.2	935.3	933.4	931.5	929.7	927.7
140°	960.6	961.7	962.6	963.6	964.5	964.1	962.4	960.6	958.9	957.2	955.2
142.5°	985.4	986.5	987.4	988.4	989.3	989.0	987.4	985.8	984.3	982.7	980.3
145°	1020.1	1021.1	1022.0	1022.9	1023.9	1023.7	1022.4	1021.1	1019.6	1018.3	1015.1
147.5°	1050.6	1051.3	1052.2	1052.9	1053.8	1053.7	1052.6	1051.7	1050.7	1049.7	1046.5
150°	1069.1	1070.1	1071.0	1072.0	1073.0	1072.9	1071.8	1070.5	1069.4	1068.3	1065.3
152.5°	1085.0	1086.3	1087.5	1088.7	1090.1	1090.1	1088.9	1087.8	1086.7	1085.5	1082.6
155°	1107.0	1108.5	1110.0	1111.6	1113.1	1113.3	1112.2	1111.1	1109.8	1108.7	1106.5
157.5°	1127.2	1128.6	1130.1	1131.6	1133.1	1133.2	1131.9	1130.6	1129.4	1128.0	1126.4
160°	1138.9	1140.2	1141.5	1142.8	1144.2	1144.3	1143.2	1142.0	1140.9	1139.7	1138.6
162.5°	1148.5	1150.2	1151.8	1153.5	1155.1	1155.3	1154.0	1152.6	1151.3	1150.1	1149.1
165°	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3	1167.0	1165.6	1164.3	1163.0	1162.4
167.5°	1172.1	1173.8	1175.5	1177.2	1178.9	1179.2	1177.8	1176.5	1175.2	1173.8	1173.3
170°	1177.6	1179.3	1181.0	1182.8	1184.5	1184.7	1183.4	1182.0	1180.6	1179.3	1178.9
172.5°	1181.8	1183.5	1185.2	1186.8	1188.6	1188.8	1187.5	1186.1	1184.8	1183.5	1183.1
175°	1185.3	1187.2	1189.2	1191.1	1193.0	1193.3	1191.9	1190.6	1189.3	1187.9	1187.5
177.5°	1187.6	1188.9	1190.3	1191.8	1193.1	1193.3	1192.2	1191.1	1190.1	1188.9	1188.8
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1842.9	1838.9	1835.4	1826.4	1821.8	1811.8	1810.3	1809.9	1796.9	1784.3	1780.8
5°	1906.2	1896.2	1881.1	1863.7	1845.5	1826.7	1814.2	1804.2	1779.2	1755.5	1741.7
7.5°	1970.0	1948.4	1922.6	1889.4	1861.8	1830.8	1807.7	1787.1	1751.6	1717.6	1694.7
10°	2017.5	1982.4	1948.0	1902.4	1866.8	1831.7	1799.2	1771.1	1731.1	1686.0	1654.2
12.5°	2047.0	2008.5	1961.1	1916.5	1870.3	1825.7	1782.3	1746.1	1699.0	1652.6	1614.6
15°	2086.9	2045.6	1988.1	1924.3	1864.9	1806.8	1756.7	1711.7	1650.4	1594.7	1548.4
17.5°	2119.6	2062.8	2001.0	1927.2	1858.4	1784.5	1720.0	1662.6	1594.3	1527.2	1472.6
20°	2130.1	2073.8	2002.5	1928.7	1847.4	1760.5	1691.0	1628.5	1555.3	1482.1	1419.7
22.5°	2123.5	2079.8	2000.5	1912.1	1828.9	1738.0	1659.5	1587.0	1505.8	1431.2	1358.6
25°	2079.4	2064.4	1989.3	1893.0	1798.0	1692.3	1601.6	1522.2	1429.6	1349.6	1270.7
27.5°	1976.5	2008.8	1962.4	1859.7	1754.1	1640.8	1538.8	1448.4	1352.4	1262.3	1183.7
30°	1877.5	1951.8	1931.8	1836.7	1718.5	1607.2	1492.8	1398.4	1295.8	1203.2	1125.7
32.5°	1741.8	1864.7	1884.3	1804.8	1682.5	1560.2	1440.3	1346.3	1239.3	1141.7	1066.1
35°	1526.0	1709.8	1794.2	1743.6	1621.0	1489.0	1365.2	1255.7	1148.2	1051.9	976.9
37.5°	1268.4	1518.8	1659.5	1663.1	1550.6	1413.3	1278.6	1169.9	1059.8	965.3	884.0
40°	1101.3	1372.7	1555.9	1596.6	1501.6	1353.3	1217.0	1106.3	998.7	906.2	813.0
42.5°	951.2	1221.6	1446.9	1517.6	1442.0	1294.8	1158.0	1042.3	937.7	850.2	755.0
45°	769.2	1005.6	1253.9	1380.3	1338.3	1202.0	1057.5	947.4	849.2	773.6	682.3
47.5°	648.9	815.5	1055.7	1226.6	1225.9	1101.5	959.3	853.9	762.8	691.9	618.0
50°	580.3	725.5	928.7	1122.6	1138.8	1034.3	899.3	794.8	709.8	635.4	576.0
52.5°	518.8	638.4	821.1	1007.0	1053.3	962.8	831.8	735.4	652.8	584.4	533.5
55°	438.4	530.9	669.8	843.7	913.7	849.9	733.6	643.6	576.6	519.1	475.3
57.5°	370.9	440.3	551.7	691.6	773.3	733.1	637.2	564.0	506.7	454.7	420.1
60°	328.3	385.2	479.7	596.6	686.6	658.6	576.6	508.4	459.7	414.6	382.1
62.5°	288.3	337.2	418.1	513.0	595.6	584.0	517.1	459.9	417.2	376.1	348.6
65°	232.1	267.7	330.8	405.3	471.6	477.2	429.0	390.2	352.1	319.6	295.2
67.5°	184.7	208.0	252.5	315.2	364.9	382.6	353.2	323.6	293.3	268.2	247.0
70°	155.7	174.5	207.0	257.7	303.3	322.1	305.2	282.0	255.8	235.2	217.0
72.5°	126.2	144.5	168.4	205.7	244.8	265.0	259.2	242.5	221.2	204.2	187.0
75°	95.1	100.7	117.0	141.9	172.6	190.1	194.5	185.8	168.8	155.7	145.7
77.5°	70.3	73.7	81.4	94.5	114.6	130.2	136.6	135.5	123.9	116.3	107.0
80°	56.3	58.2	61.9	67.6	82.6	98.2	102.5	102.5	94.4	91.3	81.9
82.5°	42.8	44.1	46.4	49.5	56.6	70.1	75.0	76.1	70.9	66.8	59.4
85°	24.4	23.8	25.0	26.9	28.2	31.9	39.4	40.6	39.4	34.4	32.5
87.5°	11.3	11.5	11.2	10.4	10.5	10.6	12.6	14.7	13.1	12.1	11.4
90°	14.1	12.6	11.1	9.2	7.2	5.1	2.9	0.8	2.9	5.1	7.2
92.5°	18.5	17.7	16.9	16.6	16.8	17.0	17.2	17.3	17.2	17.0	16.8
95°	30.9	29.6	28.2	30.7	37.0	43.4	49.7	56.0	49.7	43.4	37.0
97.5°	38.7	35.6	32.5	39.9	57.7	75.5	93.2	111.0	93.2	75.5	57.7
100°	42.6	39.3	36.1	47.5	73.7	99.9	126.1	152.4	126.1	99.9	73.7
102.5°	104.8	132.1	159.3	175.6	181.2	186.7	192.3	197.8	192.3	186.7	181.2
105°	156.9	209.2	261.4	284.6	278.9	273.1	267.4	261.6	267.4	273.1	278.9
107.5°	198.8	261.4	324.0	353.1	348.4	343.7	339.1	334.5	339.1	343.7	348.4
110°	261.2	316.5	371.7	397.4	393.4	389.4	385.4	381.4	385.4	389.4	393.4



TEST NUMBER: P331723-830

CATALOG NUMBER: SA2XXRDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	407.3	420.9	434.6	439.6	436.1	432.5	429.0	425.4	429.0	432.5	436.1
115°	521.6	516.8	512.0	507.9	504.7	501.4	498.2	494.9	498.2	501.4	504.7
117.5°	581.7	578.4	575.1	571.7	568.1	564.4	560.7	557.1	560.7	564.4	568.1
120°	624.1	620.7	617.2	614.1	611.1	608.3	605.4	602.6	605.4	608.3	611.1
122.5°	664.1	660.3	656.6	653.2	650.2	647.1	644.1	641.1	644.1	647.1	650.2
125°	720.1	716.5	712.8	709.8	707.3	704.8	702.3	699.8	702.3	704.8	707.3
127.5°	772.2	769.5	766.8	764.0	761.3	758.6	755.8	753.0	755.8	758.6	761.3
130°	805.8	803.7	801.6	799.0	796.0	792.9	789.9	786.8	789.9	792.9	796.0
132.5°	838.2	836.1	834.0	831.6	829.1	826.4	823.8	821.2	823.8	826.4	829.1
135°	884.1	882.3	880.6	878.3	875.2	872.1	869.0	866.0	869.0	872.1	875.2
137.5°	925.8	923.8	921.9	919.8	917.7	915.6	913.4	911.3	913.4	915.6	917.7
140°	953.0	950.9	948.9	947.0	945.5	944.0	942.4	940.8	942.4	944.0	945.5
142.5°	977.9	975.4	973.1	971.2	969.8	968.5	967.0	965.6	967.0	968.5	969.8
145°	1011.8	1008.6	1005.3	1003.8	1004.0	1004.2	1004.4	1004.6	1004.4	1004.2	1004.0
147.5°	1043.3	1040.0	1036.8	1035.6	1036.3	1037.1	1037.7	1038.5	1037.7	1037.1	1036.3
150°	1062.2	1059.1	1056.0	1055.2	1056.5	1057.8	1059.2	1060.5	1059.2	1057.8	1056.5
152.5°	1079.7	1076.8	1073.8	1073.2	1074.7	1076.1	1077.6	1079.1	1077.6	1076.1	1074.7
155°	1104.2	1101.8	1099.6	1099.3	1101.0	1102.7	1104.5	1106.2	1104.5	1102.7	1101.0
157.5°	1124.8	1123.2	1121.6	1121.5	1122.9	1124.5	1125.9	1127.3	1125.9	1124.5	1122.9
160°	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1138.6	1137.5	1136.2
162.5°	1148.0	1147.1	1146.0	1146.1	1147.3	1148.5	1149.6	1150.8	1149.6	1148.5	1147.3
165°	1161.8	1161.2	1160.6	1160.9	1162.1	1163.3	1164.4	1165.5	1164.4	1163.3	1162.1
167.5°	1172.7	1172.2	1171.7	1172.0	1173.1	1174.3	1175.4	1176.6	1175.4	1174.3	1173.1
170°	1178.6	1178.2	1177.8	1178.2	1179.3	1180.4	1181.6	1182.8	1181.6	1180.4	1179.3
172.5°	1182.7	1182.3	1181.9	1182.3	1183.5	1184.6	1185.7	1186.8	1185.7	1184.6	1183.5
175°	1187.1	1186.8	1186.4	1186.8	1188.2	1189.6	1190.9	1192.2	1190.9	1189.6	1188.2
177.5°	1188.6	1188.5	1188.4	1188.8	1189.9	1191.0	1192.0	1193.1	1192.0	1191.0	1189.9
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331723-830

CATALOG NUMBER: SA2XXRDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1774.3	1770.8	1764.3	1754.4	1748.3	1737.9	1730.8	1734.8	1735.8	1734.8	1733.8
5°	1726.6	1713.5	1695.4	1677.9	1661.6	1644.2	1634.1	1629.8	1621.0	1616.0	1613.5
7.5°	1669.1	1646.4	1620.7	1590.3	1564.3	1537.2	1523.3	1516.5	1498.5	1488.7	1480.3
10°	1626.0	1590.4	1564.7	1524.7	1500.3	1464.6	1440.3	1440.9	1416.5	1402.7	1392.7
12.5°	1578.5	1539.4	1496.7	1460.7	1426.7	1398.1	1368.8	1356.8	1331.0	1317.7	1290.6
15°	1499.7	1454.1	1409.0	1360.2	1325.8	1281.4	1238.9	1186.9	1145.1	1108.8	1098.8
17.5°	1413.6	1357.1	1311.9	1254.6	1195.7	1121.1	1071.8	1041.6	1016.3	997.2	983.0
20°	1354.6	1297.0	1248.9	1162.6	1083.2	1032.6	996.3	973.1	946.9	926.2	914.9
22.5°	1292.5	1232.5	1166.9	1070.5	1008.6	968.0	935.7	909.1	891.3	875.2	864.9
25°	1204.5	1138.8	1030.7	964.3	914.3	871.8	849.2	833.0	814.3	792.4	782.3
27.5°	1111.4	1007.0	929.3	880.1	832.3	804.6	784.4	760.1	743.3	733.5	723.0
30°	1041.9	937.5	876.8	823.0	789.2	758.6	734.8	721.0	704.8	688.0	681.1
32.5°	964.3	880.9	822.7	778.0	743.7	717.6	698.8	676.6	664.8	654.4	640.0
35°	868.0	804.8	751.7	715.5	683.0	661.7	639.8	626.6	605.4	596.6	591.0
37.5°	786.5	731.7	692.0	653.7	628.0	604.5	591.1	570.2	561.0	548.8	537.0
40°	740.5	686.6	648.6	617.3	588.5	571.0	554.1	537.2	523.5	517.8	503.4
42.5°	693.4	649.7	611.5	577.2	558.0	539.4	518.1	505.7	491.4	482.3	473.4
45°	628.5	589.7	557.2	529.0	507.8	488.4	474.7	454.0	445.9	427.7	420.3
47.5°	571.5	535.5	504.4	477.7	456.9	444.3	424.1	408.0	395.0	383.9	374.2
50°	530.9	501.0	470.9	447.1	428.4	410.3	389.6	381.4	361.5	355.8	350.2
52.5°	493.9	465.4	437.9	414.6	395.9	378.2	360.1	349.5	335.9	330.4	326.2
55°	442.1	414.6	388.3	367.7	348.9	330.8	319.6	306.4	300.2	295.8	290.8
57.5°	390.1	365.3	345.3	324.3	305.5	291.1	278.1	270.1	263.6	257.9	251.9
60°	357.1	333.3	315.2	295.8	276.4	264.6	254.5	245.2	237.6	228.8	226.4
62.5°	322.1	301.3	284.6	265.8	248.9	238.0	228.5	219.6	210.7	197.8	194.4
65°	273.9	257.7	240.2	224.5	209.5	198.9	185.1	175.1	171.4	170.1	169.5
67.5°	230.4	215.0	200.0	184.0	170.3	160.5	153.4	151.9	149.3	148.5	146.8
70°	201.3	187.0	172.0	156.9	143.8	141.9	139.5	137.0	133.8	132.6	131.3
72.5°	175.3	160.5	145.4	133.5	127.8	125.5	122.9	120.5	118.3	117.1	116.3
75°	134.5	120.7	110.7	106.3	103.2	101.3	97.6	95.7	94.4	92.6	91.9
77.5°	96.8	89.1	84.5	81.7	78.4	76.4	74.3	72.4	71.1	70.7	69.7
80°	73.8	70.0	66.9	63.2	61.9	59.4	58.8	56.9	57.5	55.7	55.7
82.5°	57.3	52.5	49.9	48.2	46.9	44.9	44.3	43.4	43.5	42.1	42.1
85°	29.4	28.2	26.9	25.6	25.6	23.8	24.4	23.8	23.8	22.5	21.9
87.5°	11.4	11.2	10.6	10.8	11.1	10.9	11.1	10.8	11.0	11.2	10.8
90°	9.2	11.1	12.6	14.1	15.6	17.2	18.2	19.1	20.1	21.0	21.7
92.5°	16.6	16.9	17.7	18.5	19.2	20.0	20.5	20.9	21.5	22.0	22.3
95°	30.7	28.2	29.6	30.9	32.2	33.6	34.5	35.4	36.5	37.4	37.8
97.5°	39.9	32.5	35.6	38.7	41.8	45.0	45.7	46.5	47.2	48.0	48.4
100°	47.5	36.1	39.3	42.6	45.8	49.1	50.6	52.1	53.6	55.2	56.2
102.5°	175.6	159.3	132.1	104.8	77.7	50.4	52.4	54.4	56.5	58.4	59.7
105°	284.6	261.4	209.2	156.9	104.7	52.5	54.6	56.7	58.8	60.9	62.4
107.5°	353.1	324.0	261.4	198.8	136.1	73.5	71.4	69.2	67.1	64.9	64.3
110°	397.4	371.7	316.5	261.2	205.9	150.6	131.5	112.4	93.2	74.1	64.9



TEST NUMBER: P331723-830

CATALOG NUMBER: SA2XXRDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	439.6	434.6	420.9	407.3	393.6	379.9	310.2	240.4	170.6	100.9	66.3
115°	507.9	512.0	516.8	521.6	526.3	531.1	442.5	354.0	265.4	176.8	125.6
117.5°	571.7	575.1	578.4	581.7	585.0	588.2	566.8	545.4	524.1	502.6	469.2
120°	614.1	617.2	620.7	624.1	627.5	630.9	633.3	635.6	637.9	640.2	628.4
122.5°	653.2	656.6	660.3	664.1	667.9	671.7	673.0	674.4	675.7	677.1	675.3
125°	709.8	712.8	716.5	720.1	723.8	727.4	728.8	730.1	731.4	732.7	733.7
127.5°	764.0	766.8	769.5	772.2	775.0	777.7	779.6	781.6	783.5	785.5	786.5
130°	799.0	801.6	803.7	805.8	807.9	810.0	812.1	814.3	816.3	818.4	819.4
132.5°	831.6	834.0	836.1	838.2	840.3	842.4	844.2	846.0	847.8	849.6	850.4
135°	878.3	880.6	882.3	884.1	885.8	887.5	889.4	891.4	893.2	895.1	895.9
137.5°	919.8	921.9	923.8	925.8	927.7	929.7	931.5	933.4	935.3	937.2	937.8
140°	947.0	948.9	950.9	953.0	955.2	957.2	958.9	960.6	962.4	964.1	964.5
142.5°	971.2	973.1	975.4	977.9	980.3	982.7	984.3	985.8	987.4	989.0	989.3
145°	1003.8	1005.3	1008.6	1011.8	1015.1	1018.3	1019.6	1021.1	1022.4	1023.7	1023.9
147.5°	1035.6	1036.8	1040.0	1043.3	1046.5	1049.7	1050.7	1051.7	1052.6	1053.7	1053.8
150°	1055.2	1056.0	1059.1	1062.2	1065.3	1068.3	1069.4	1070.5	1071.8	1072.9	1073.0
152.5°	1073.2	1073.8	1076.8	1079.7	1082.6	1085.5	1086.7	1087.8	1088.9	1090.1	1090.1
155°	1099.3	1099.6	1101.8	1104.2	1106.5	1108.7	1109.8	1111.1	1112.2	1113.3	1113.1
157.5°	1121.5	1121.6	1123.2	1124.8	1126.4	1128.0	1129.4	1130.6	1131.9	1133.2	1133.1
160°	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1140.9	1142.0	1143.2	1144.3	1144.2
162.5°	1146.1	1146.0	1147.1	1148.0	1149.1	1150.1	1151.3	1152.6	1154.0	1155.3	1155.1
165°	1160.9	1160.6	1161.2	1161.8	1162.4	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3
167.5°	1172.0	1171.7	1172.2	1172.7	1173.3	1173.8	1175.2	1176.5	1177.8	1179.2	1178.9
170°	1178.2	1177.8	1178.2	1178.6	1178.9	1179.3	1180.6	1182.0	1183.4	1184.7	1184.5
172.5°	1182.3	1181.9	1182.3	1182.7	1183.1	1183.5	1184.8	1186.1	1187.5	1188.8	1188.6
175°	1186.8	1186.4	1186.8	1187.1	1187.5	1187.9	1189.3	1190.6	1191.9	1193.3	1193.0
177.5°	1188.8	1188.4	1188.5	1188.6	1188.8	1188.9	1190.1	1191.1	1192.2	1193.3	1193.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331723-830

CATALOG NUMBER: SA2XXRDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1728.3	1729.3	1727.8	1728.8	1727.8	1729.3	1728.3	1733.8	1734.8	1735.8	1734.8
5°	1610.3	1602.9	1601.6	1599.8	1601.6	1602.9	1610.3	1613.5	1616.0	1621.0	1629.8
7.5°	1469.5	1468.4	1465.3	1460.9	1465.3	1468.4	1469.5	1480.3	1488.7	1498.5	1516.5
10°	1378.9	1375.8	1375.3	1370.8	1375.3	1375.8	1378.9	1392.7	1402.7	1416.5	1440.9
12.5°	1272.9	1252.7	1250.7	1239.7	1250.7	1252.7	1272.9	1290.6	1317.7	1331.0	1356.8
15°	1083.8	1080.1	1067.5	1059.4	1067.5	1080.1	1083.8	1098.8	1108.8	1145.1	1186.9
17.5°	975.7	963.5	959.6	957.8	959.6	963.5	975.7	983.0	997.2	1016.3	1041.6
20°	906.2	894.9	893.1	891.8	893.1	894.9	906.2	914.9	926.2	946.9	973.1
22.5°	858.2	846.4	841.5	837.7	841.5	846.4	858.2	864.9	875.2	891.3	909.1
25°	776.1	771.8	769.2	768.0	769.2	771.8	776.1	782.3	792.4	814.3	833.0
27.5°	711.9	702.3	700.4	697.2	700.4	702.3	711.9	723.0	733.5	743.3	760.1
30°	675.4	672.3	667.9	664.1	667.9	672.3	675.4	681.1	688.0	704.8	721.0
32.5°	632.4	629.8	625.8	624.2	625.8	629.8	632.4	640.0	654.4	664.8	676.6
35°	584.8	576.0	572.2	566.6	572.2	576.0	584.8	591.0	596.6	605.4	626.6
37.5°	534.3	529.7	524.4	526.3	524.4	529.7	534.3	537.0	548.8	561.0	570.2
40°	495.3	492.2	491.0	490.3	491.0	492.2	495.3	503.4	517.8	523.5	537.2
42.5°	464.3	455.6	452.4	452.2	452.4	455.6	464.3	473.4	482.3	491.4	505.7
45°	417.2	409.0	403.4	404.0	403.4	409.0	417.2	420.3	427.7	445.9	454.0
47.5°	368.8	368.6	365.1	366.3	365.1	368.6	368.8	374.2	383.9	395.0	408.0
50°	345.8	342.0	339.6	340.2	339.6	342.0	345.8	350.2	355.8	361.5	381.4
52.5°	323.9	320.6	318.6	321.2	318.6	320.6	323.9	326.2	330.4	335.9	349.5
55°	287.7	283.9	283.3	282.7	283.3	283.9	287.7	290.8	295.8	300.2	306.4
57.5°	247.3	244.8	241.0	239.4	241.0	244.8	247.3	251.9	257.9	263.6	270.1
60°	218.3	213.3	207.0	206.4	207.0	213.3	218.3	226.4	228.8	237.6	245.2
62.5°	191.7	190.8	189.5	189.4	189.5	190.8	191.7	194.4	197.8	210.7	219.6
65°	168.2	167.6	168.2	168.8	168.2	167.6	168.2	169.5	170.1	171.4	175.1
67.5°	146.6	145.4	144.3	144.9	144.3	145.4	146.6	146.8	148.5	149.3	151.9
70°	130.1	129.4	128.8	128.8	128.8	129.4	130.1	131.3	132.6	133.8	137.0
72.5°	114.0	114.0	113.3	112.8	113.3	114.0	114.0	116.3	117.1	118.3	120.5
75°	91.3	90.0	90.0	90.0	90.0	90.0	91.3	91.9	92.6	94.4	95.7
77.5°	69.6	68.9	68.3	67.8	68.3	68.9	69.6	69.7	70.7	71.1	72.4
80°	55.0	54.4	53.8	53.8	53.8	54.4	55.0	55.7	55.7	57.5	56.9
82.5°	42.0	41.4	41.3	40.8	41.3	41.4	42.0	42.1	42.1	43.5	43.4
85°	22.5	23.1	22.5	23.8	22.5	23.1	22.5	21.9	22.5	23.8	23.8
87.5°	10.9	10.5	11.1	10.7	11.1	10.5	10.9	10.8	11.2	11.0	10.8
90°	22.1	22.4	22.9	23.3	22.9	22.4	22.1	21.7	21.0	20.1	19.1
92.5°	22.5	22.8	23.0	23.3	23.0	22.8	22.5	22.3	22.0	21.5	20.9
95°	37.6	37.4	37.2	37.0	37.2	37.4	37.6	37.8	37.4	36.5	35.4
97.5°	48.7	48.9	49.2	49.4	49.2	48.9	48.7	48.4	48.0	47.2	46.5
100°	56.6	56.9	57.3	57.7	57.3	56.9	56.6	56.2	55.2	53.6	52.1
102.5°	60.2	60.7	61.3	61.8	61.3	60.7	60.2	59.7	58.4	56.5	54.4
105°	63.2	63.9	64.7	65.4	64.7	63.9	63.2	62.4	60.9	58.8	56.7
107.5°	65.0	65.8	66.5	67.3	66.5	65.8	65.0	64.3	64.9	67.1	69.2
110°	65.7	66.4	67.2	68.1	67.2	66.4	65.7	64.9	74.1	93.2	112.4



TEST NUMBER: P331723-830

CATALOG NUMBER: SA2XXRDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	66.8	67.5	68.1	68.7	68.1	67.5	66.8	66.3	100.9	170.6	240.4
115°	111.9	98.1	84.4	70.6	84.4	98.1	111.9	125.6	176.8	265.4	354.0
117.5°	424.0	378.7	333.5	288.2	333.5	378.7	424.0	469.2	502.6	524.1	545.4
120°	602.6	576.7	550.9	525.1	550.9	576.7	602.6	628.4	640.2	637.9	635.6
122.5°	670.3	665.2	660.3	655.3	660.3	665.2	670.3	675.3	677.1	675.7	674.4
125°	734.2	734.8	735.5	736.0	735.5	734.8	734.2	733.7	732.7	731.4	730.1
127.5°	786.6	786.7	786.8	786.9	786.8	786.7	786.6	786.5	785.5	783.5	781.6
130°	819.3	819.0	818.8	818.6	818.8	819.0	819.3	819.4	818.4	816.3	814.3
132.5°	850.2	850.0	849.8	849.6	849.8	850.0	850.2	850.4	849.6	847.8	846.0
135°	895.5	895.1	894.8	894.4	894.8	895.1	895.5	895.9	895.1	893.2	891.4
137.5°	937.2	936.5	935.9	935.2	935.9	936.5	937.2	937.8	937.2	935.3	933.4
140°	963.6	962.6	961.7	960.6	961.7	962.6	963.6	964.5	964.1	962.4	960.6
142.5°	988.4	987.4	986.5	985.4	986.5	987.4	988.4	989.3	989.0	987.4	985.8
145°	1022.9	1022.0	1021.1	1020.1	1021.1	1022.0	1022.9	1023.9	1023.7	1022.4	1021.1
147.5°	1052.9	1052.2	1051.3	1050.6	1051.3	1052.2	1052.9	1053.8	1053.7	1052.6	1051.7
150°	1072.0	1071.0	1070.1	1069.1	1070.1	1071.0	1072.0	1073.0	1072.9	1071.8	1070.5
152.5°	1088.7	1087.5	1086.3	1085.0	1086.3	1087.5	1088.7	1090.1	1090.1	1088.9	1087.8
155°	1111.6	1110.0	1108.5	1107.0	1108.5	1110.0	1111.6	1113.1	1113.3	1112.2	1111.1
157.5°	1131.6	1130.1	1128.6	1127.2	1128.6	1130.1	1131.6	1133.1	1133.2	1131.9	1130.6
160°	1142.8	1141.5	1140.2	1138.9	1140.2	1141.5	1142.8	1144.2	1144.3	1143.2	1142.0
162.5°	1153.5	1151.8	1150.2	1148.5	1150.2	1151.8	1153.5	1155.1	1155.3	1154.0	1152.6
165°	1167.0	1165.6	1164.3	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3	1167.0	1165.6
167.5°	1177.2	1175.5	1173.8	1172.1	1173.8	1175.5	1177.2	1178.9	1179.2	1177.8	1176.5
170°	1182.8	1181.0	1179.3	1177.6	1179.3	1181.0	1182.8	1184.5	1184.7	1183.4	1182.0
172.5°	1186.8	1185.2	1183.5	1181.8	1183.5	1185.2	1186.8	1188.6	1188.8	1187.5	1186.1
175°	1191.1	1189.2	1187.2	1185.3	1187.2	1189.2	1191.1	1193.0	1193.3	1191.9	1190.6
177.5°	1191.8	1190.3	1188.9	1187.6	1188.9	1190.3	1191.8	1193.1	1193.3	1192.2	1191.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331723-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1730.8	1737.9	1748.3	1754.4	1764.3	1770.8	1774.3	1780.8	1784.3	1796.9	1809.9
5°	1634.1	1644.2	1661.6	1677.9	1695.4	1713.5	1726.6	1741.7	1755.5	1779.2	1804.2
7.5°	1523.3	1537.2	1564.3	1590.3	1620.7	1646.4	1669.1	1694.7	1717.6	1751.6	1787.1
10°	1440.3	1464.6	1500.3	1524.7	1564.7	1590.4	1626.0	1654.2	1686.0	1731.1	1771.1
12.5°	1368.8	1398.1	1426.7	1460.7	1496.7	1539.4	1578.5	1614.6	1652.6	1699.0	1746.1
15°	1238.9	1281.4	1325.8	1360.2	1409.0	1454.1	1499.7	1548.4	1594.7	1650.4	1711.7
17.5°	1071.8	1121.1	1195.7	1254.6	1311.9	1357.1	1413.6	1472.6	1527.2	1594.3	1662.6
20°	996.3	1032.6	1083.2	1162.6	1248.9	1297.0	1354.6	1419.7	1482.1	1555.3	1628.5
22.5°	935.7	968.0	1008.6	1070.5	1166.9	1232.5	1292.5	1358.6	1431.2	1505.8	1587.0
25°	849.2	871.8	914.3	964.3	1030.7	1138.8	1204.5	1270.7	1349.6	1429.6	1522.2
27.5°	784.4	804.6	832.3	880.1	929.3	1007.0	1111.4	1183.7	1262.3	1352.4	1448.4
30°	734.8	758.6	789.2	823.0	876.8	937.5	1041.9	1125.7	1203.2	1295.8	1398.4
32.5°	698.8	717.6	743.7	778.0	822.7	880.9	964.3	1066.1	1141.7	1239.3	1346.3
35°	639.8	661.7	683.0	715.5	751.7	804.8	868.0	976.9	1051.9	1148.2	1255.7
37.5°	591.1	604.5	628.0	653.7	692.0	731.7	786.5	884.0	965.3	1059.8	1169.9
40°	554.1	571.0	588.5	617.3	648.6	686.6	740.5	813.0	906.2	998.7	1106.3
42.5°	518.1	539.4	558.0	577.2	611.5	649.7	693.4	755.0	850.2	937.7	1042.3
45°	474.7	488.4	507.8	529.0	557.2	589.7	628.5	682.3	773.6	849.2	947.4
47.5°	424.1	444.3	456.9	477.7	504.4	535.5	571.5	618.0	691.9	762.8	853.9
50°	389.6	410.3	428.4	447.1	470.9	501.0	530.9	576.0	635.4	709.8	794.8
52.5°	360.1	378.2	395.9	414.6	437.9	465.4	493.9	533.5	584.4	652.8	735.4
55°	319.6	330.8	348.9	367.7	388.3	414.6	442.1	475.3	519.1	576.6	643.6
57.5°	278.1	291.1	305.5	324.3	345.3	365.3	390.1	420.1	454.7	506.7	564.0
60°	254.5	264.6	276.4	295.8	315.2	333.3	357.1	382.1	414.6	459.7	508.4
62.5°	228.5	238.0	248.9	265.8	284.6	301.3	322.1	348.6	376.1	417.2	459.9
65°	185.1	198.9	209.5	224.5	240.2	257.7	273.9	295.2	319.6	352.1	390.2
67.5°	153.4	160.5	170.3	184.0	200.0	215.0	230.4	247.0	268.2	293.3	323.6
70°	139.5	141.9	143.8	156.9	172.0	187.0	201.3	217.0	235.2	255.8	282.0
72.5°	122.9	125.5	127.8	133.5	145.4	160.5	175.3	187.0	204.2	221.2	242.5
75°	97.6	101.3	103.2	106.3	110.7	120.7	134.5	145.7	155.7	168.8	185.8
77.5°	74.3	76.4	78.4	81.7	84.5	89.1	96.8	107.0	116.3	123.9	135.5
80°	58.8	59.4	61.9	63.2	66.9	70.0	73.8	81.9	91.3	94.4	102.5
82.5°	44.3	44.9	46.9	48.2	49.9	52.5	57.3	59.4	66.8	70.9	76.1
85°	24.4	23.8	25.6	25.6	26.9	28.2	29.4	32.5	34.4	39.4	40.6
87.5°	11.1	10.9	11.1	10.8	10.6	11.2	11.4	11.4	12.1	13.1	14.7
90°	18.2	17.2	15.6	14.1	12.6	11.1	9.2	7.2	5.1	2.9	0.8
92.5°	20.5	20.0	19.2	18.5	17.7	16.9	16.6	16.8	17.0	17.2	17.3
95°	34.5	33.6	32.2	30.9	29.6	28.2	30.7	37.0	43.4	49.7	56.0
97.5°	45.7	45.0	41.8	38.7	35.6	32.5	39.9	57.7	75.5	93.2	111.0
100°	50.6	49.1	45.8	42.6	39.3	36.1	47.5	73.7	99.9	126.1	152.4
102.5°	52.4	50.4	77.7	104.8	132.1	159.3	175.6	181.2	186.7	192.3	197.8
105°	54.6	52.5	104.7	156.9	209.2	261.4	284.6	278.9	273.1	267.4	261.6
107.5°	71.4	73.5	136.1	198.8	261.4	324.0	353.1	348.4	343.7	339.1	334.5
110°	131.5	150.6	205.9	261.2	316.5	371.7	397.4	393.4	389.4	385.4	381.4



TEST NUMBER: P331723-830

CATALOG NUMBER: SA2XXRDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	310.2	379.9	393.6	407.3	420.9	434.6	439.6	436.1	432.5	429.0	425.4
115°	442.5	531.1	526.3	521.6	516.8	512.0	507.9	504.7	501.4	498.2	494.9
117.5°	566.8	588.2	585.0	581.7	578.4	575.1	571.7	568.1	564.4	560.7	557.1
120°	633.3	630.9	627.5	624.1	620.7	617.2	614.1	611.1	608.3	605.4	602.6
122.5°	673.0	671.7	667.9	664.1	660.3	656.6	653.2	650.2	647.1	644.1	641.1
125°	728.8	727.4	723.8	720.1	716.5	712.8	709.8	707.3	704.8	702.3	699.8
127.5°	779.6	777.7	775.0	772.2	769.5	766.8	764.0	761.3	758.6	755.8	753.0
130°	812.1	810.0	807.9	805.8	803.7	801.6	799.0	796.0	792.9	789.9	786.8
132.5°	844.2	842.4	840.3	838.2	836.1	834.0	831.6	829.1	826.4	823.8	821.2
135°	889.4	887.5	885.8	884.1	882.3	880.6	878.3	875.2	872.1	869.0	866.0
137.5°	931.5	929.7	927.7	925.8	923.8	921.9	919.8	917.7	915.6	913.4	911.3
140°	958.9	957.2	955.2	953.0	950.9	948.9	947.0	945.5	944.0	942.4	940.8
142.5°	984.3	982.7	980.3	977.9	975.4	973.1	971.2	969.8	968.5	967.0	965.6
145°	1019.6	1018.3	1015.1	1011.8	1008.6	1005.3	1003.8	1004.0	1004.2	1004.4	1004.6
147.5°	1050.7	1049.7	1046.5	1043.3	1040.0	1036.8	1035.6	1036.3	1037.1	1037.7	1038.5
150°	1069.4	1068.3	1065.3	1062.2	1059.1	1056.0	1055.2	1056.5	1057.8	1059.2	1060.5
152.5°	1086.7	1085.5	1082.6	1079.7	1076.8	1073.8	1073.2	1074.7	1076.1	1077.6	1079.1
155°	1109.8	1108.7	1106.5	1104.2	1101.8	1099.6	1099.3	1101.0	1102.7	1104.5	1106.2
157.5°	1129.4	1128.0	1126.4	1124.8	1123.2	1121.6	1121.5	1122.9	1124.5	1125.9	1127.3
160°	1140.9	1139.7	1138.6	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7
162.5°	1151.3	1150.1	1149.1	1148.0	1147.1	1146.0	1146.1	1147.3	1148.5	1149.6	1150.8
165°	1164.3	1163.0	1162.4	1161.8	1161.2	1160.6	1160.9	1162.1	1163.3	1164.4	1165.5
167.5°	1175.2	1173.8	1173.3	1172.7	1172.2	1171.7	1172.0	1173.1	1174.3	1175.4	1176.6
170°	1180.6	1179.3	1178.9	1178.6	1178.2	1177.8	1178.2	1179.3	1180.4	1181.6	1182.8
172.5°	1184.8	1183.5	1183.1	1182.7	1182.3	1181.9	1182.3	1183.5	1184.6	1185.7	1186.8
175°	1189.3	1187.9	1187.5	1187.1	1186.8	1186.4	1186.8	1188.2	1189.6	1190.9	1192.2
177.5°	1190.1	1188.9	1188.8	1188.6	1188.5	1188.4	1188.8	1189.9	1191.0	1192.0	1193.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331723-830

CATALOG NUMBER: SA2XXRDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1810.3	1811.8	1821.8	1826.4	1835.4	1838.9	1842.9	1841.9	1841.9	1843.9	1857.9
5°	1814.2	1826.7	1845.5	1863.7	1881.1	1896.2	1906.2	1916.2	1920.0	1938.1	1954.4
7.5°	1807.7	1830.8	1861.8	1889.4	1922.6	1948.4	1970.0	1989.3	2002.6	2029.0	2056.1
10°	1799.2	1831.7	1866.8	1902.4	1948.0	1982.4	2017.5	2044.4	2053.1	2092.5	2115.1
12.5°	1782.3	1825.7	1870.3	1916.5	1961.1	2008.5	2047.0	2073.9	2104.7	2140.0	2181.6
15°	1756.7	1806.8	1864.9	1924.3	1988.1	2045.6	2086.9	2133.8	2167.6	2206.4	2242.6
17.5°	1720.0	1784.5	1858.4	1927.2	2001.0	2062.8	2119.6	2164.5	2188.3	2210.5	2215.8
20°	1691.0	1760.5	1847.4	1928.7	2002.5	2073.8	2130.1	2167.6	2173.9	2174.4	2141.4
22.5°	1659.5	1738.0	1828.9	1912.1	2000.5	2079.8	2123.5	2139.6	2114.8	2072.4	2008.3
25°	1601.6	1692.3	1798.0	1893.0	1989.3	2064.4	2079.4	2051.3	1964.4	1873.0	1757.4
27.5°	1538.8	1640.8	1754.1	1859.7	1962.4	2008.8	1976.5	1875.0	1718.4	1582.3	1417.4
30°	1492.8	1607.2	1718.5	1836.7	1931.8	1951.8	1877.5	1728.0	1545.3	1340.2	1175.7
32.5°	1440.3	1560.2	1682.5	1804.8	1884.3	1864.7	1741.8	1557.8	1343.7	1142.1	986.7
35°	1365.2	1489.0	1621.0	1743.6	1794.2	1709.8	1526.0	1286.4	1067.5	879.3	772.3
37.5°	1278.6	1413.3	1550.6	1663.1	1659.5	1518.8	1268.4	1021.2	837.2	725.9	649.7
40°	1217.0	1353.3	1501.6	1596.6	1555.9	1372.7	1101.3	868.0	733.6	644.8	589.1
42.5°	1158.0	1294.8	1442.0	1517.6	1446.9	1221.6	951.2	768.5	657.5	588.2	543.1
45°	1057.5	1202.0	1338.3	1380.3	1253.9	1005.6	769.2	636.7	562.9	511.5	480.3
47.5°	959.3	1101.5	1225.9	1226.6	1055.7	815.5	648.9	551.0	488.0	448.3	425.6
50°	899.3	1034.3	1138.8	1122.6	928.7	725.5	580.3	496.0	443.4	412.7	389.0
52.5°	831.8	962.8	1053.3	1007.0	821.1	638.4	518.8	447.9	404.4	377.8	356.5
55°	733.6	849.9	913.7	843.7	669.8	530.9	438.4	382.8	350.2	327.7	309.5
57.5°	637.2	733.1	773.3	691.6	551.7	440.3	370.9	329.0	296.8	280.7	271.3
60°	576.6	658.6	686.6	596.6	479.7	385.2	328.3	289.5	265.8	255.1	245.8
62.5°	517.1	584.0	595.6	513.0	418.1	337.2	288.3	255.5	239.8	229.6	220.7
65°	429.0	477.2	471.6	405.3	330.8	267.7	232.1	212.0	200.1	185.8	170.1
67.5°	353.2	382.6	364.9	315.2	252.5	208.0	184.7	169.6	154.9	141.2	137.6
70°	305.2	322.1	303.3	257.7	207.0	174.5	155.7	137.6	128.8	125.7	120.1
72.5°	259.2	265.0	244.8	205.7	168.4	144.5	126.2	116.0	111.3	108.7	105.1
75°	194.5	190.1	172.6	141.9	117.0	100.7	95.1	91.3	88.2	85.7	83.8
77.5°	136.6	130.2	114.6	94.5	81.4	73.7	70.3	68.3	66.8	65.5	63.6
80°	102.5	98.2	82.6	67.6	61.9	58.2	56.3	53.8	53.8	52.5	50.6
82.5°	75.0	70.1	56.6	49.5	46.4	44.1	42.8	41.3	40.8	41.0	39.7
85°	39.4	31.9	28.2	26.9	25.0	23.8	24.4	23.1	23.1	23.1	22.5
87.5°	12.6	10.6	10.5	10.4	11.2	11.5	11.3	11.7	12.4	12.2	12.8
90°	2.9	5.1	7.2	9.2	11.1	12.6	14.1	15.6	17.2	18.2	19.1
92.5°	17.2	17.0	16.8	16.6	16.9	17.7	18.5	19.2	20.0	20.5	20.9
95°	49.7	43.4	37.0	30.7	28.2	29.6	30.9	32.2	33.6	34.5	35.4
97.5°	93.2	75.5	57.7	39.9	32.5	35.6	38.7	41.8	45.0	45.7	46.5
100°	126.1	99.9	73.7	47.5	36.1	39.3	42.6	45.8	49.1	50.6	52.1
102.5°	192.3	186.7	181.2	175.6	159.3	132.1	104.8	77.7	50.4	52.4	54.4
105°	267.4	273.1	278.9	284.6	261.4	209.2	156.9	104.7	52.5	54.6	56.7
107.5°	339.1	343.7	348.4	353.1	324.0	261.4	198.8	136.1	73.5	71.4	69.2
110°	385.4	389.4	393.4	397.4	371.7	316.5	261.2	205.9	150.6	131.5	112.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	429.0	432.5	436.1	439.6	434.6	420.9	407.3	393.6	379.9	310.2	240.4
115°	498.2	501.4	504.7	507.9	512.0	516.8	521.6	526.3	531.1	442.5	354.0
117.5°	560.7	564.4	568.1	571.7	575.1	578.4	581.7	585.0	588.2	566.8	545.4
120°	605.4	608.3	611.1	614.1	617.2	620.7	624.1	627.5	630.9	633.3	635.6
122.5°	644.1	647.1	650.2	653.2	656.6	660.3	664.1	667.9	671.7	673.0	674.4
125°	702.3	704.8	707.3	709.8	712.8	716.5	720.1	723.8	727.4	728.8	730.1
127.5°	755.8	758.6	761.3	764.0	766.8	769.5	772.2	775.0	777.7	779.6	781.6
130°	789.9	792.9	796.0	799.0	801.6	803.7	805.8	807.9	810.0	812.1	814.3
132.5°	823.8	826.4	829.1	831.6	834.0	836.1	838.2	840.3	842.4	844.2	846.0
135°	869.0	872.1	875.2	878.3	880.6	882.3	884.1	885.8	887.5	889.4	891.4
137.5°	913.4	915.6	917.7	919.8	921.9	923.8	925.8	927.7	929.7	931.5	933.4
140°	942.4	944.0	945.5	947.0	948.9	950.9	953.0	955.2	957.2	958.9	960.6
142.5°	967.0	968.5	969.8	971.2	973.1	975.4	977.9	980.3	982.7	984.3	985.8
145°	1004.4	1004.2	1004.0	1003.8	1005.3	1008.6	1011.8	1015.1	1018.3	1019.6	1021.1
147.5°	1037.7	1037.1	1036.3	1035.6	1036.8	1040.0	1043.3	1046.5	1049.7	1050.7	1051.7
150°	1059.2	1057.8	1056.5	1055.2	1056.0	1059.1	1062.2	1065.3	1068.3	1069.4	1070.5
152.5°	1077.6	1076.1	1074.7	1073.2	1073.8	1076.8	1079.7	1082.6	1085.5	1086.7	1087.8
155°	1104.5	1102.7	1101.0	1099.3	1099.6	1101.8	1104.2	1106.5	1108.7	1109.8	1111.1
157.5°	1125.9	1124.5	1122.9	1121.5	1121.6	1123.2	1124.8	1126.4	1128.0	1129.4	1130.6
160°	1138.6	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1140.9	1142.0
162.5°	1149.6	1148.5	1147.3	1146.1	1146.0	1147.1	1148.0	1149.1	1150.1	1151.3	1152.6
165°	1164.4	1163.3	1162.1	1160.9	1160.6	1161.2	1161.8	1162.4	1163.0	1164.3	1165.6
167.5°	1175.4	1174.3	1173.1	1172.0	1171.7	1172.2	1172.7	1173.3	1173.8	1175.2	1176.5
170°	1181.6	1180.4	1179.3	1178.2	1177.8	1178.2	1178.6	1178.9	1179.3	1180.6	1182.0
172.5°	1185.7	1184.6	1183.5	1182.3	1181.9	1182.3	1182.7	1183.1	1183.5	1184.8	1186.1
175°	1190.9	1189.6	1188.2	1186.8	1186.4	1186.8	1187.1	1187.5	1187.9	1189.3	1190.6
177.5°	1192.0	1191.0	1189.9	1188.8	1188.4	1188.5	1188.6	1188.8	1188.9	1190.1	1191.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1862.9	1869.4	1872.4	1872.4	1875.9	1874.4	1872.9
5°	1970.0	1981.9	1984.3	1995.6	2003.8	2001.2	2002.5
7.5°	2076.4	2095.6	2114.4	2123.1	2124.4	2129.4	2131.3
10°	2141.9	2157.6	2187.0	2182.6	2204.5	2217.0	2196.3
12.5°	2205.0	2226.1	2246.6	2252.1	2264.6	2268.5	2260.4
15°	2262.0	2273.3	2274.5	2271.4	2275.1	2272.0	2260.1
17.5°	2208.8	2190.5	2153.4	2135.9	2122.0	2101.6	2093.3
20°	2120.7	2066.9	2004.3	1979.3	1949.9	1892.4	1906.2
22.5°	1930.6	1869.3	1806.8	1733.7	1698.8	1644.3	1641.0
25°	1634.7	1529.1	1412.8	1331.4	1283.9	1229.5	1205.7
27.5°	1271.0	1137.9	1042.6	994.4	950.5	907.3	905.6
30°	1031.9	931.8	858.0	816.7	789.9	771.8	775.5
32.5°	869.8	801.3	751.5	717.2	697.3	683.6	683.4
35°	711.1	664.1	632.3	617.8	603.5	593.5	594.1
37.5°	608.5	580.3	562.6	546.7	537.7	532.8	530.1
40°	556.0	532.8	519.1	509.7	502.2	495.3	494.1
42.5°	514.4	495.3	481.5	474.2	467.1	462.3	461.0
45°	456.6	440.9	428.4	420.3	417.2	412.7	412.7
47.5°	406.1	390.8	381.0	375.9	370.5	367.6	367.5
50°	372.1	360.2	351.5	348.4	343.9	342.0	341.5
52.5°	341.6	332.7	326.5	324.3	322.4	320.1	320.5
55°	300.2	295.2	292.7	290.8	287.7	283.9	286.4
57.5°	265.3	261.0	254.3	248.4	245.5	242.9	243.9
60°	240.8	232.1	223.3	216.4	214.5	208.9	208.9
62.5°	209.7	197.5	186.7	182.9	181.0	178.3	177.9
65°	161.4	156.4	153.8	151.4	150.1	150.1	148.8
67.5°	133.7	131.7	128.9	128.4	127.1	126.7	126.3
70°	118.2	115.6	114.4	113.9	112.5	113.2	111.3
72.5°	103.2	101.2	100.9	99.3	98.6	98.7	97.3
75°	81.3	81.3	80.7	80.0	78.8	78.1	78.8
77.5°	62.6	62.7	61.5	61.5	61.3	61.5	60.8
80°	50.0	50.6	50.0	49.4	48.8	49.4	48.8
82.5°	39.5	38.6	38.5	38.4	38.3	37.9	37.8
85°	22.5	23.1	22.5	21.9	21.9	21.9	22.5
87.5°	12.5	12.7	12.8	12.9	13.0	13.1	12.6
90°	20.1	21.0	21.7	22.1	22.4	22.9	23.3
92.5°	21.5	22.0	22.3	22.5	22.8	23.0	23.3
95°	36.5	37.4	37.8	37.6	37.4	37.2	37.0
97.5°	47.2	48.0	48.4	48.7	48.9	49.2	49.4
100°	53.6	55.2	56.2	56.6	56.9	57.3	57.7
102.5°	56.5	58.4	59.7	60.2	60.7	61.3	61.8
105°	58.8	60.9	62.4	63.2	63.9	64.7	65.4
107.5°	67.1	64.9	64.3	65.0	65.8	66.5	67.3
110°	93.2	74.1	64.9	65.7	66.4	67.2	68.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	170.6	100.9	66.3	66.8	67.5	68.1	68.7
115°	265.4	176.8	125.6	111.9	98.1	84.4	70.6
117.5°	524.1	502.6	469.2	424.0	378.7	333.5	288.2
120°	637.9	640.2	628.4	602.6	576.7	550.9	525.1
122.5°	675.7	677.1	675.3	670.3	665.2	660.3	655.3
125°	731.4	732.7	733.7	734.2	734.8	735.5	736.0
127.5°	783.5	785.5	786.5	786.6	786.7	786.8	786.9
130°	816.3	818.4	819.4	819.3	819.0	818.8	818.6
132.5°	847.8	849.6	850.4	850.2	850.0	849.8	849.6
135°	893.2	895.1	895.9	895.5	895.1	894.8	894.4
137.5°	935.3	937.2	937.8	937.2	936.5	935.9	935.2
140°	962.4	964.1	964.5	963.6	962.6	961.7	960.6
142.5°	987.4	989.0	989.3	988.4	987.4	986.5	985.4
145°	1022.4	1023.7	1023.9	1022.9	1022.0	1021.1	1020.1
147.5°	1052.6	1053.7	1053.8	1052.9	1052.2	1051.3	1050.6
150°	1071.8	1072.9	1073.0	1072.0	1071.0	1070.1	1069.1
152.5°	1088.9	1090.1	1090.1	1088.7	1087.5	1086.3	1085.0
155°	1112.2	1113.3	1113.1	1111.6	1110.0	1108.5	1107.0
157.5°	1131.9	1133.2	1133.1	1131.6	1130.1	1128.6	1127.2
160°	1143.2	1144.3	1144.2	1142.8	1141.5	1140.2	1138.9
162.5°	1154.0	1155.3	1155.1	1153.5	1151.8	1150.2	1148.5
165°	1167.0	1168.3	1168.3	1167.0	1165.6	1164.3	1163.0
167.5°	1177.8	1179.2	1178.9	1177.2	1175.5	1173.8	1172.1
170°	1183.4	1184.7	1184.5	1182.8	1181.0	1179.3	1177.6
172.5°	1187.5	1188.8	1188.6	1186.8	1185.2	1183.5	1181.8
175°	1191.9	1193.3	1193.0	1191.1	1189.2	1187.2	1185.3
177.5°	1192.2	1193.3	1193.1	1191.8	1190.3	1188.9	1187.6
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7

(END OF REPORT)