

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: P332662-935

Luminaire Tested: **SA4XXDIP-C1020D1205U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332662-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1020D1205U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7556.6 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

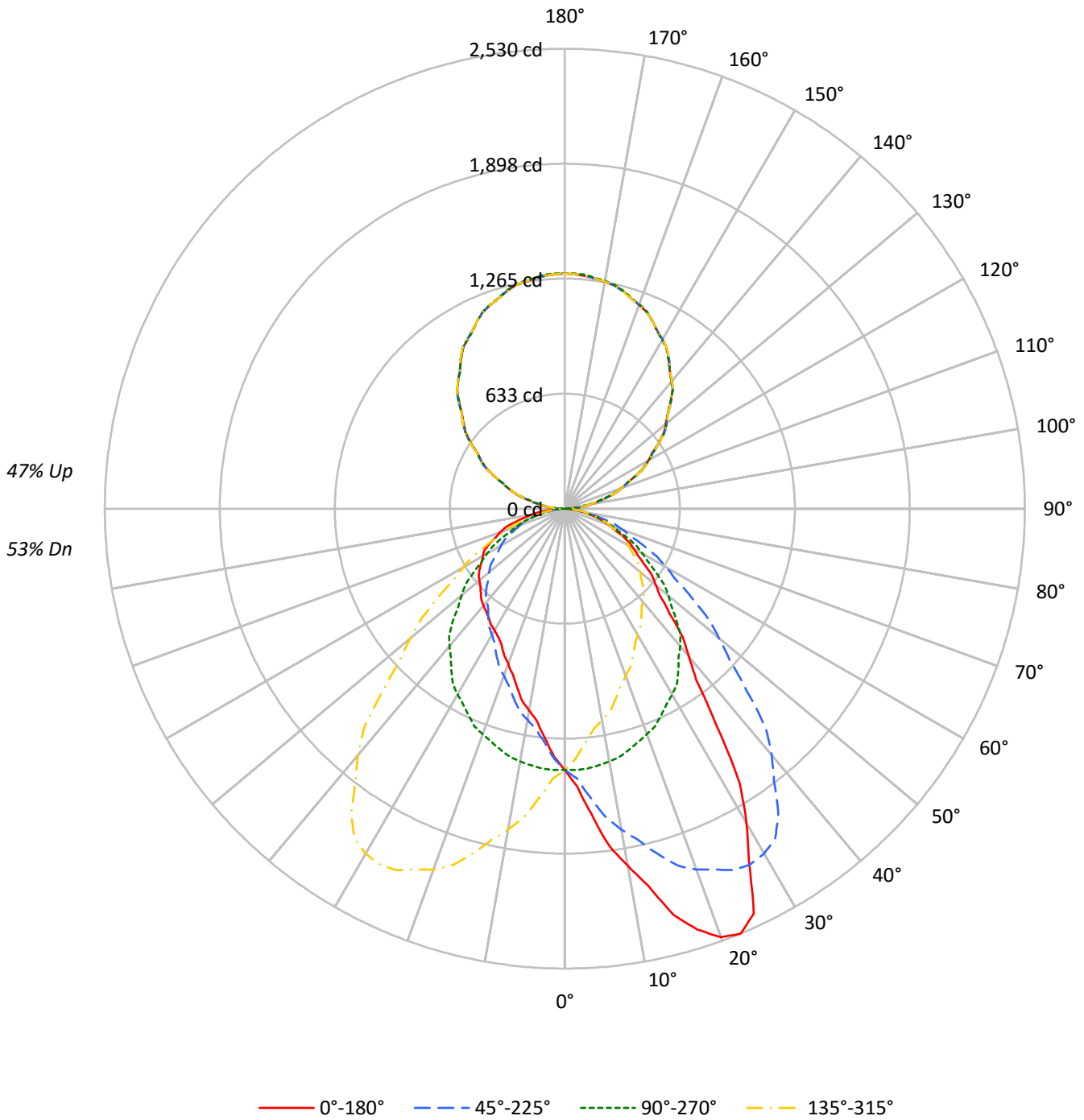
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	53
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45
2	90	83	77	71	83	77	71	67	66	62	58	55	53	50	46	44	42	38
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	38	36	32
4	75	65	57	51	69	60	53	48	52	46	42	44	40	37	37	34	31	28
5	69	58	50	44	64	54	47	41	46	41	37	40	35	32	33	30	28	24
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24	22
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	25	22	19	17
9	51	39	31	26	47	37	30	25	32	26	23	28	23	20	23	20	18	16
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11599	11599	11599	11599
5°	13661	11629	10264	11629
10°	16356	11579	9241	11579
15°	19351	11462	8487	11462
20°	21549	11342	7814	11342
25°	21896	11166	7349	11166
30°	18632	10997	7202	10997
35°	14325	10723	7203	10723
40°	11166	10400	7339	10400
45°	9310	9914	7462	9914
50°	8194	9323	7714	9323
55°	7506	8612	8025	8612
60°	7035	7976	8399	7976
65°	6550	7265	8709	7265
70°	5986	6559	8908	6559
75°	5346	5774	8799	5774
80°	4482	4733	8522	4733
85°	3307	3418	8160	3418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.9
10°-20°	431.5	5.7
20°-30°	684.2	9.1
30°-40°	761.4	10.1
40°-50°	693.1	9.2
50°-60°	566.4	7.5
60°-70°	404.3	5.4
70°-80°	222.6	2.9
80°-90°	64.7	0.9
90°-100°	85.3	1.1
100°-110°	252.7	3.3
110°-120°	428.9	5.7
120°-130°	565.6	7.5
130°-140°	635.2	8.4
140°-150°	624.2	8.3
150°-160°	525.0	6.9
160°-170°	349.3	4.6
170°-180°	122.3	1.6
0°-30°	1255.6	16.6
0°-40°	2017.1	26.7
0°-60°	3276.5	43.4
0°-90°	3968.2	52.5
90°-120°	767.0	10.1
90°-150°	2591.9	34.3
90°-180°	3588.0	47.5
0°-180°	7556.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1437	1437	1437	1437	1437	
5°	1686	1435	1267	1435	1686	171
15°	2315	1371	1016	1371	2315	654
25°	2458	1254	825	1254	2458	1084
35°	1454	1088	731	1088	1454	923
45°	816	868	654	868	816	642
55°	533	612	570	612	533	482
65°	343	380	456	380	343	339
75°	171	185	282	185	171	182
85°	36	37	88	37	36	44
90°	30	3	30	3	30	17
95°	79	60	79	60	79	82
105°	244	233	244	233	244	257
115°	432	436	432	436	432	427
125°	630	635	630	635	630	562
135°	820	819	820	819	820	633
145°	996	995	996	995	996	623
155°	1139	1140	1139	1140	1139	524
165°	1238	1241	1238	1241	1238	349
175°	1285	1291	1285	1291	1285	122
180°	1293	1293	1293	1293	1293	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1529.2	1528.8	1524.0	1523.0	1519.7	1515.4	1514.5	1506.8	1491.6	1484.5	1482.6
5°	1685.7	1697.5	1682.0	1679.1	1677.3	1657.7	1647.5	1635.6	1608.3	1592.2	1579.7
7.5°	1872.3	1873.7	1867.0	1861.5	1846.3	1829.2	1803.5	1776.2	1743.5	1709.6	1683.9
10°	1995.2	1999.9	1992.2	1991.0	1960.7	1941.6	1903.5	1871.4	1834.4	1793.4	1755.9
12.5°	2124.7	2118.0	2114.1	2088.6	2083.0	2048.2	2004.0	1970.9	1914.0	1866.7	1816.8
15°	2315.4	2302.3	2294.0	2258.8	2241.6	2193.4	2146.3	2110.1	2035.7	1964.8	1911.2
17.5°	2427.2	2440.4	2421.1	2406.7	2362.1	2328.2	2280.2	2204.0	2145.8	2057.8	1990.2
20°	2508.3	2509.4	2498.7	2483.8	2448.7	2405.9	2353.5	2270.1	2200.5	2113.0	2020.2
22.5°	2530.1	2530.4	2525.8	2511.9	2485.4	2450.6	2397.8	2328.2	2243.9	2148.7	2055.9
25°	2458.2	2455.8	2461.3	2476.7	2466.6	2455.8	2425.5	2373.7	2295.2	2194.5	2094.6
27.5°	2191.1	2207.5	2237.7	2275.9	2312.6	2340.5	2348.4	2337.8	2289.1	2206.3	2101.6
30°	1998.7	2019.0	2041.6	2079.7	2153.4	2195.7	2242.2	2277.3	2257.6	2191.6	2094.0
32.5°	1787.3	1792.3	1825.9	1869.2	1936.8	2018.1	2091.7	2163.0	2186.7	2152.1	2070.6
35°	1453.5	1461.8	1498.1	1541.0	1623.8	1723.1	1833.8	1932.7	2014.2	2046.9	2005.3
37.5°	1186.1	1210.0	1235.7	1281.8	1354.6	1444.1	1559.1	1687.0	1808.5	1889.9	1903.8
40°	1059.5	1074.4	1092.8	1127.9	1189.8	1277.9	1376.7	1523.2	1652.3	1769.0	1807.1
42.5°	959.5	968.2	979.5	1011.2	1058.4	1146.0	1236.2	1365.0	1494.7	1634.2	1698.1
45°	815.5	824.4	843.4	861.9	897.6	958.3	1042.2	1148.1	1278.5	1413.1	1530.9
47.5°	711.4	717.1	728.4	748.2	778.5	818.6	886.8	975.3	1096.1	1226.8	1352.3
50°	652.4	657.1	666.1	683.9	707.1	742.8	798.7	881.5	976.1	1107.7	1230.9
52.5°	605.7	607.6	614.2	626.3	644.7	674.8	720.7	789.1	877.1	994.4	1117.1
55°	533.3	535.7	541.7	550.6	566.6	585.7	620.8	672.0	748.8	850.6	957.1
57.5°	473.8	475.4	480.4	483.9	497.1	512.6	539.6	576.2	634.4	720.7	815.8
60°	435.7	434.5	440.5	443.4	452.4	465.5	486.3	521.4	572.0	641.6	729.1
62.5°	398.6	396.9	401.9	405.8	411.0	422.1	439.1	466.7	507.7	570.7	646.3
65°	342.9	340.4	343.5	348.2	352.9	359.0	371.4	395.8	428.5	473.8	531.5
67.5°	286.9	289.4	289.9	292.2	295.0	303.1	311.7	328.9	352.0	388.2	437.1
70°	253.6	254.2	256.6	256.6	258.3	265.4	272.6	282.8	305.3	338.7	378.6
72.5°	220.2	222.7	221.8	223.7	225.0	229.7	235.0	244.6	263.9	288.7	322.4
75°	171.4	173.2	173.2	173.8	175.6	177.4	181.5	188.6	202.3	220.8	244.0
77.5°	125.0	125.3	126.1	128.2	128.2	131.0	134.1	139.9	146.6	159.3	173.4
80°	96.4	97.6	97.0	98.2	98.2	100.6	101.8	108.9	111.9	120.2	131.6
82.5°	70.7	71.9	71.8	73.4	74.4	74.9	76.5	79.4	82.4	89.7	94.4
85°	35.7	36.9	35.7	36.9	38.7	39.3	41.1	41.7	44.1	45.8	50.0
87.5°	16.4	17.8	17.7	18.1	18.9	19.3	19.5	18.8	20.4	20.6	22.1
90°	30.0	29.5	29.1	28.7	28.2	27.4	26.0	24.7	23.3	22.0	20.2
92.5°	44.4	44.2	43.9	43.7	43.3	42.8	42.0	41.2	40.4	39.6	38.4
95°	79.0	79.0	79.0	79.0	79.0	78.7	78.0	77.3	76.7	76.0	74.5
97.5°	123.8	123.8	123.8	123.8	123.8	123.5	122.6	121.8	121.1	120.2	118.4
100°	155.1	155.1	155.1	155.1	155.1	154.8	154.4	153.9	153.5	153.1	151.0
102.5°	190.3	190.1	189.9	189.8	189.5	189.2	188.6	187.9	187.3	186.7	184.9
105°	244.1	243.4	242.7	242.1	241.4	240.7	240.0	239.4	238.8	238.1	237.2
107.5°	296.5	296.5	296.6	296.6	296.7	296.4	295.8	295.2	294.5	293.9	293.8
110°	334.1	333.5	332.8	332.1	331.4	331.3	331.7	332.2	332.7	333.1	333.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	372.6	372.4	372.2	372.1	372.0	372.0	372.0	372.1	372.2	372.3	372.7
115°	432.1	432.4	432.6	432.8	433.0	433.3	433.4	433.7	433.9	434.1	434.5
117.5°	489.0	489.4	489.8	490.3	490.8	491.3	492.1	492.8	493.6	494.4	494.6
120°	532.2	531.8	531.2	530.8	530.4	530.7	531.8	533.0	534.1	535.2	535.8
122.5°	568.2	568.9	569.8	570.6	571.4	572.1	572.9	573.7	574.5	575.1	575.5
125°	630.2	630.6	631.1	631.5	632.0	632.4	632.8	633.3	633.8	634.2	634.4
127.5°	687.6	687.9	688.3	688.7	689.1	689.4	689.9	690.3	690.8	691.2	691.6
130°	725.2	726.1	727.0	727.9	728.8	729.4	729.9	730.3	730.8	731.2	731.2
132.5°	765.3	765.6	765.9	766.3	766.6	767.1	767.5	767.9	768.4	768.9	769.0
135°	820.3	820.9	821.6	822.3	822.9	823.5	823.9	824.4	824.8	825.3	825.3
137.5°	878.0	878.0	877.8	877.7	877.5	877.8	878.3	878.9	879.5	880.0	879.7
140°	913.3	913.5	913.7	914.0	914.2	914.4	914.6	914.8	915.1	915.2	915.2
142.5°	948.5	948.6	948.6	948.6	948.6	948.7	948.7	948.8	948.8	948.9	949.1
145°	996.3	997.0	997.6	998.3	998.9	999.4	999.6	999.9	1000.1	1000.3	1000.1
147.5°	1044.7	1044.9	1045.2	1045.4	1045.6	1045.8	1046.0	1046.2	1046.4	1046.5	1046.7
150°	1074.4	1074.5	1074.8	1075.0	1075.2	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
152.5°	1101.6	1102.1	1102.7	1103.3	1103.9	1103.9	1103.4	1102.8	1102.3	1101.7	1101.6
155°	1139.4	1140.2	1141.2	1142.0	1142.9	1142.9	1142.0	1141.2	1140.2	1139.4	1139.5
157.5°	1173.2	1173.9	1174.7	1175.4	1176.2	1176.2	1175.5	1174.9	1174.2	1173.5	1173.6
160°	1192.4	1193.5	1194.6	1195.7	1196.8	1197.0	1196.4	1195.7	1195.1	1194.4	1194.6
162.5°	1212.4	1213.5	1214.6	1215.7	1216.9	1216.8	1215.6	1214.4	1213.1	1211.9	1212.2
165°	1238.4	1239.2	1240.2	1241.0	1241.9	1241.7	1240.4	1239.1	1237.7	1236.4	1236.8
167.5°	1257.0	1258.4	1259.7	1261.1	1262.5	1262.5	1261.2	1259.8	1258.5	1257.1	1257.1
170°	1267.4	1268.9	1270.5	1272.0	1273.6	1273.8	1272.4	1271.1	1269.7	1268.4	1268.2
172.5°	1276.2	1277.7	1279.3	1280.8	1282.5	1282.5	1280.9	1279.4	1277.9	1276.4	1276.3
175°	1285.4	1286.9	1288.5	1290.0	1291.6	1291.6	1290.0	1288.5	1286.9	1285.4	1285.6
177.5°	1290.2	1291.6	1293.0	1294.4	1295.9	1296.0	1294.8	1293.5	1292.3	1291.0	1291.0
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1483.1	1476.4	1471.6	1467.8	1457.3	1451.1	1446.4	1439.7	1432.1	1424.0	1414.0
5°	1567.2	1547.0	1532.1	1509.5	1488.1	1470.2	1451.7	1435.0	1414.8	1392.8	1376.7
7.5°	1655.6	1625.6	1587.0	1553.5	1515.9	1483.2	1453.9	1423.8	1392.7	1362.4	1334.7
10°	1711.8	1673.2	1630.3	1579.7	1532.1	1489.8	1450.5	1412.5	1375.5	1338.6	1307.1
12.5°	1772.3	1724.1	1660.8	1601.6	1548.3	1491.8	1444.3	1397.7	1353.1	1314.3	1277.6
15°	1853.5	1783.8	1710.6	1631.5	1561.3	1495.2	1430.3	1371.4	1321.4	1270.1	1234.5
17.5°	1903.4	1817.2	1733.5	1650.8	1565.7	1482.5	1412.5	1344.5	1281.9	1231.1	1186.0
20°	1936.2	1850.5	1746.4	1663.6	1562.5	1476.7	1395.8	1320.2	1254.7	1200.6	1154.1
22.5°	1964.8	1865.8	1761.6	1652.7	1552.0	1461.0	1372.4	1296.4	1229.5	1172.4	1127.9
25°	1980.3	1866.6	1753.5	1645.2	1530.9	1423.1	1342.8	1253.5	1182.1	1122.0	1074.4
27.5°	1981.9	1860.4	1732.4	1612.1	1494.1	1393.8	1292.4	1212.5	1138.4	1074.9	1029.2
30°	1976.7	1849.9	1712.4	1582.1	1463.6	1354.7	1266.6	1179.7	1104.1	1041.0	993.4
32.5°	1960.1	1828.0	1686.7	1548.8	1426.0	1319.5	1228.6	1145.9	1072.2	1010.0	960.1
35°	1911.9	1781.5	1630.9	1487.5	1361.8	1254.1	1172.0	1088.0	1014.3	955.3	907.1
37.5°	1836.5	1718.6	1565.6	1417.1	1293.7	1185.5	1104.1	1028.3	961.7	901.9	852.5
40°	1770.7	1667.2	1513.6	1369.0	1235.7	1132.7	1056.5	986.9	920.8	864.3	817.3
42.5°	1695.1	1604.8	1463.2	1309.9	1181.4	1078.0	1003.7	941.2	878.9	826.6	779.6
45°	1560.0	1500.6	1367.2	1225.5	1091.7	994.0	923.2	868.4	816.1	764.8	725.6
47.5°	1404.8	1375.3	1263.1	1128.5	1001.4	905.2	843.8	793.2	747.3	703.9	669.3
50°	1300.5	1286.2	1189.2	1059.5	938.1	847.6	785.7	742.3	702.9	664.9	632.1
52.5°	1197.7	1197.2	1109.7	990.9	878.6	791.4	730.0	689.4	655.3	624.4	595.0
55°	1040.4	1057.1	988.7	882.7	782.1	703.5	648.2	611.9	588.1	562.5	540.4
57.5°	896.0	923.7	867.2	773.9	690.0	617.6	569.4	542.1	516.8	501.3	485.3
60°	801.8	827.9	783.9	705.3	626.2	564.3	518.4	494.0	472.0	461.3	450.0
62.5°	718.0	741.3	708.7	635.8	567.1	507.6	468.9	445.5	430.6	418.9	411.4
65°	598.2	617.9	589.9	536.9	477.9	430.3	398.8	380.3	366.1	361.3	352.9
67.5°	483.5	501.4	486.3	441.3	394.0	358.0	333.3	315.6	307.1	303.0	297.0
70°	415.4	433.3	417.2	378.0	341.6	311.3	288.1	277.9	269.1	267.3	258.9
72.5°	357.8	370.0	354.0	323.2	292.1	266.6	248.6	238.0	233.3	230.1	225.6
75°	268.5	279.1	268.5	244.6	222.6	204.7	189.2	185.1	179.8	178.0	175.0
77.5°	190.0	199.2	191.1	176.2	159.7	145.9	137.6	132.2	131.0	127.9	129.4
80°	145.3	151.2	143.4	133.4	120.2	110.7	104.8	101.8	98.2	97.0	99.4
82.5°	104.3	106.9	103.0	96.2	86.4	80.2	76.2	72.8	72.0	72.2	72.2
85°	54.2	53.6	53.0	47.0	44.1	39.9	37.5	36.9	36.3	37.5	38.7
87.5°	21.8	21.9	21.1	18.8	16.8	14.9	13.9	13.0	13.9	14.9	15.8
90°	18.4	16.7	14.9	12.7	10.3	7.9	5.4	3.0	5.4	7.9	10.3
92.5°	37.1	35.9	34.6	32.6	29.8	27.0	24.2	21.4	24.2	27.0	29.8
95°	72.9	71.4	69.8	68.0	66.0	64.1	62.0	60.0	62.0	64.1	66.0
97.5°	116.6	114.8	113.0	111.2	109.6	108.1	106.4	104.9	106.4	108.1	109.6
100°	149.0	147.1	145.1	143.6	142.7	141.8	140.9	140.1	140.9	141.8	142.7
102.5°	183.0	181.2	179.3	178.3	177.9	177.5	177.2	176.8	177.2	177.5	177.9
105°	236.3	235.4	234.5	233.9	233.8	233.5	233.3	233.1	233.3	233.5	233.8
107.5°	293.6	293.5	293.3	293.2	292.9	292.7	292.4	292.1	292.4	292.7	292.9
110°	333.6	333.8	334.0	333.9	333.5	332.9	332.5	332.1	332.5	332.9	333.5



TEST NUMBER: P332662-935

CATALOG NUMBER: SA4XXDIP-C1020D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	373.2	373.5	373.9	374.1	374.0	373.9	373.8	373.7	373.8	373.9	374.0
115°	435.1	435.5	435.9	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1
117.5°	495.0	495.2	495.6	495.7	495.5	495.3	495.2	495.0	495.2	495.3	495.5
120°	536.5	537.2	537.9	537.7	536.8	536.0	535.0	534.2	535.0	536.0	536.8
122.5°	575.8	576.1	576.4	576.4	576.0	575.7	575.3	575.0	575.3	575.7	576.0
125°	634.6	634.9	635.1	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2
127.5°	691.9	692.2	692.7	692.5	691.8	691.1	690.5	689.8	690.5	691.1	691.8
130°	731.2	731.2	731.2	730.9	730.2	729.5	728.9	728.2	728.9	729.5	730.2
132.5°	769.2	769.4	769.6	769.4	768.9	768.4	767.9	767.4	767.9	768.4	768.9
135°	825.3	825.3	825.3	824.6	823.3	821.9	820.6	819.2	820.6	821.9	823.3
137.5°	879.3	879.0	878.7	878.1	877.5	876.9	876.3	875.6	876.3	876.9	877.5
140°	915.2	915.2	915.2	915.1	914.6	914.2	913.7	913.3	913.7	914.2	914.6
142.5°	949.3	949.4	949.6	949.5	949.0	948.6	948.1	947.7	948.1	948.6	949.0
145°	999.9	999.6	999.4	998.8	998.0	997.1	996.2	995.3	996.2	997.1	998.0
147.5°	1046.9	1047.1	1047.2	1046.8	1045.7	1044.7	1043.6	1042.5	1043.6	1044.7	1045.7
150°	1075.3	1075.3	1075.3	1074.9	1074.0	1073.2	1072.2	1071.3	1072.2	1073.2	1074.0
152.5°	1101.4	1101.2	1101.0	1100.7	1100.1	1099.6	1099.1	1098.5	1099.1	1099.6	1100.1
155°	1139.8	1140.1	1140.2	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3
157.5°	1173.6	1173.7	1173.7	1174.0	1174.4	1174.7	1175.2	1175.5	1175.2	1174.7	1174.4
160°	1194.8	1195.1	1195.2	1195.5	1195.7	1195.9	1196.2	1196.4	1196.2	1195.9	1195.7
162.5°	1212.5	1212.6	1212.9	1213.2	1213.8	1214.4	1215.0	1215.6	1215.0	1214.4	1213.8
165°	1237.3	1237.7	1238.1	1238.7	1239.4	1240.0	1240.7	1241.4	1240.7	1240.0	1239.4
167.5°	1257.1	1257.1	1257.0	1257.5	1258.4	1259.3	1260.2	1261.2	1260.2	1259.3	1258.4
170°	1267.9	1267.7	1267.5	1267.9	1269.0	1270.1	1271.3	1272.4	1271.3	1270.1	1269.0
172.5°	1276.3	1276.3	1276.2	1276.7	1277.6	1278.5	1279.4	1280.4	1279.4	1278.5	1277.6
175°	1285.8	1286.1	1286.2	1286.9	1288.1	1289.2	1290.3	1291.4	1290.3	1289.2	1288.1
177.5°	1291.0	1291.0	1291.0	1291.4	1292.4	1293.2	1294.1	1295.0	1294.1	1293.2	1292.4
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



TEST NUMBER: P332662-935

CATALOG NUMBER: SA4XXDIP-C1020D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1409.2	1405.0	1398.8	1390.2	1383.0	1375.4	1373.6	1370.6	1376.4	1371.6	1370.2
5°	1363.0	1350.6	1334.5	1316.0	1305.3	1289.9	1286.9	1280.9	1275.0	1274.4	1268.4
7.5°	1314.1	1295.8	1274.7	1255.9	1238.5	1221.6	1210.6	1208.2	1199.4	1194.2	1188.3
10°	1282.7	1260.1	1235.7	1217.8	1197.6	1179.7	1167.3	1160.1	1154.1	1147.5	1141.6
12.5°	1245.5	1221.5	1201.4	1182.1	1158.0	1144.4	1123.9	1111.5	1110.3	1110.4	1094.9
15°	1202.3	1178.5	1147.5	1120.2	1107.1	1080.9	1069.6	1055.3	1046.4	1037.4	1030.4
17.5°	1153.0	1123.3	1099.2	1067.7	1042.7	1021.8	1007.0	998.4	985.0	972.3	963.2
20°	1122.0	1090.5	1064.8	1031.5	1004.1	978.5	966.0	954.2	944.0	933.3	923.2
22.5°	1090.5	1057.6	1026.2	993.9	968.5	941.4	929.4	913.2	903.5	897.6	887.4
25°	1041.0	1005.3	969.6	938.7	912.5	888.6	872.6	860.1	849.4	844.6	838.1
27.5°	987.2	951.7	917.2	882.1	852.4	835.1	822.3	812.8	806.7	800.3	797.4
30°	953.0	916.0	879.2	846.4	819.0	801.8	789.9	783.3	778.5	775.6	772.6
32.5°	918.2	881.8	842.9	813.0	788.5	773.2	764.1	757.6	755.2	754.1	753.0
35°	862.5	825.5	789.9	763.1	739.9	733.9	726.2	722.6	721.4	725.6	727.4
37.5°	808.6	774.3	741.4	715.4	700.3	691.6	688.9	689.1	693.3	697.0	701.3
40°	773.8	740.5	709.5	686.9	672.6	667.3	666.1	669.0	673.8	678.0	682.7
42.5°	739.9	707.1	679.0	657.8	647.8	642.9	643.7	646.6	653.3	658.4	665.6
45°	687.5	660.1	632.7	615.4	607.1	608.3	608.3	613.6	620.2	627.9	635.7
47.5°	638.1	610.4	588.0	573.4	569.1	568.1	571.4	578.4	587.8	597.4	608.2
50°	604.8	578.5	558.9	545.8	541.1	542.9	547.6	554.1	565.4	577.4	588.7
52.5°	570.9	547.1	528.9	516.8	513.4	516.7	521.4	531.8	541.7	554.5	568.2
55°	518.4	498.2	483.9	475.0	473.8	475.6	481.0	492.2	506.5	522.6	535.7
57.5°	466.1	449.3	436.2	430.0	430.6	432.2	441.1	454.5	469.8	486.9	503.8
60°	430.9	415.4	404.8	400.0	400.5	404.2	414.8	427.4	446.4	463.0	481.0
62.5°	397.6	384.0	373.8	369.5	368.7	376.5	386.8	399.8	418.8	437.4	456.7
65°	344.1	333.3	325.0	322.6	324.4	330.4	343.5	360.7	376.8	396.4	416.6
67.5°	291.6	282.8	277.2	278.2	280.3	289.1	300.1	315.0	333.2	353.5	373.6
70°	258.3	249.9	245.2	245.8	249.4	260.1	269.7	284.5	304.2	325.0	341.6
72.5°	224.0	218.5	214.3	216.8	220.3	227.7	239.6	254.5	271.8	291.2	308.8
75°	172.0	172.0	169.6	171.4	176.8	183.9	192.9	208.4	225.6	241.1	255.4
77.5°	127.6	126.3	127.9	130.0	133.1	141.5	151.8	162.8	175.8	191.3	203.1
80°	97.6	98.2	101.2	104.8	106.0	112.5	123.2	133.4	143.4	156.5	167.8
82.5°	73.4	74.0	75.5	80.0	81.2	88.3	95.1	105.2	114.4	123.2	132.6
85°	39.9	39.9	42.9	44.6	47.6	52.3	56.6	62.5	70.9	76.8	85.7
87.5°	17.8	18.3	20.5	21.8	23.6	26.3	27.6	33.1	35.2	37.9	42.3
90°	12.7	14.9	16.7	18.4	20.2	22.0	23.3	24.7	26.0	27.4	28.2
92.5°	32.6	34.6	35.9	37.1	38.4	39.6	40.4	41.2	42.0	42.8	43.3
95°	68.0	69.8	71.4	72.9	74.5	76.0	76.7	77.3	78.0	78.7	79.0
97.5°	111.2	113.0	114.8	116.6	118.4	120.2	121.1	121.8	122.6	123.5	123.8
100°	143.6	145.1	147.1	149.0	151.0	153.1	153.5	153.9	154.4	154.8	155.1
102.5°	178.3	179.3	181.2	183.0	184.9	186.7	187.3	187.9	188.6	189.2	189.5
105°	233.9	234.5	235.4	236.3	237.2	238.1	238.8	239.4	240.0	240.7	241.4
107.5°	293.2	293.3	293.5	293.6	293.8	293.9	294.5	295.2	295.8	296.4	296.7
110°	333.9	334.0	333.8	333.6	333.3	333.1	332.7	332.2	331.7	331.3	331.4



TEST NUMBER: P332662-935

CATALOG NUMBER: SA4XXDIP-C1020D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	374.1	373.9	373.5	373.2	372.7	372.3	372.2	372.1	372.0	372.0	372.0
115°	436.1	435.9	435.5	435.1	434.5	434.1	433.9	433.7	433.4	433.3	433.0
117.5°	495.7	495.6	495.2	495.0	494.6	494.4	493.6	492.8	492.1	491.3	490.8
120°	537.7	537.9	537.2	536.5	535.8	535.2	534.1	533.0	531.8	530.7	530.4
122.5°	576.4	576.4	576.1	575.8	575.5	575.1	574.5	573.7	572.9	572.1	571.4
125°	635.2	635.1	634.9	634.6	634.4	634.2	633.8	633.3	632.8	632.4	632.0
127.5°	692.5	692.7	692.2	691.9	691.6	691.2	690.8	690.3	689.9	689.4	689.1
130°	730.9	731.2	731.2	731.2	731.2	731.2	730.8	730.3	729.9	729.4	728.8
132.5°	769.4	769.6	769.4	769.2	769.0	768.9	768.4	767.9	767.5	767.1	766.6
135°	824.6	825.3	825.3	825.3	825.3	825.3	824.8	824.4	823.9	823.5	822.9
137.5°	878.1	878.7	879.0	879.3	879.7	880.0	879.5	878.9	878.3	877.8	877.5
140°	915.1	915.2	915.2	915.2	915.2	915.2	915.1	914.8	914.6	914.4	914.2
142.5°	949.5	949.6	949.4	949.3	949.1	948.9	948.8	948.8	948.7	948.7	948.6
145°	998.8	999.4	999.6	999.9	1000.1	1000.3	1000.1	999.9	999.6	999.4	998.9
147.5°	1046.8	1047.2	1047.1	1046.9	1046.7	1046.5	1046.4	1046.2	1046.0	1045.8	1045.6
150°	1074.9	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.2
152.5°	1100.7	1101.0	1101.2	1101.4	1101.6	1101.7	1102.3	1102.8	1103.4	1103.9	1103.9
155°	1140.3	1140.2	1140.1	1139.8	1139.5	1139.4	1140.2	1141.2	1142.0	1142.9	1142.9
157.5°	1174.0	1173.7	1173.7	1173.6	1173.6	1173.5	1174.2	1174.9	1175.5	1176.2	1176.2
160°	1195.5	1195.2	1195.1	1194.8	1194.6	1194.4	1195.1	1195.7	1196.4	1197.0	1196.8
162.5°	1213.2	1212.9	1212.6	1212.5	1212.2	1211.9	1213.1	1214.4	1215.6	1216.8	1216.9
165°	1238.7	1238.1	1237.7	1237.3	1236.8	1236.4	1237.7	1239.1	1240.4	1241.7	1241.9
167.5°	1257.5	1257.0	1257.1	1257.1	1257.1	1257.1	1258.5	1259.8	1261.2	1262.5	1262.5
170°	1267.9	1267.5	1267.7	1267.9	1268.2	1268.4	1269.7	1271.1	1272.4	1273.8	1273.6
172.5°	1276.7	1276.2	1276.3	1276.3	1276.3	1276.4	1277.9	1279.4	1280.9	1282.5	1282.5
175°	1286.9	1286.2	1286.1	1285.8	1285.6	1285.4	1286.9	1288.5	1290.0	1291.6	1291.6
177.5°	1291.4	1291.0	1291.0	1291.0	1291.0	1291.0	1292.3	1293.5	1294.8	1296.0	1295.9
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



TEST NUMBER: P332662-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1369.2	1368.3	1364.9	1364.5	1364.9	1368.3	1369.2	1370.2	1371.6	1376.4	1370.6
5°	1264.8	1261.9	1260.1	1266.6	1260.1	1261.9	1264.8	1268.4	1274.4	1275.0	1280.9
7.5°	1186.1	1183.8	1178.5	1176.9	1178.5	1183.8	1186.1	1188.3	1194.2	1199.4	1208.2
10°	1135.7	1133.2	1128.5	1127.3	1128.5	1133.2	1135.7	1141.6	1147.5	1154.1	1160.1
12.5°	1087.1	1082.4	1081.4	1082.5	1081.4	1082.4	1087.1	1094.9	1110.4	1110.3	1111.5
15°	1022.6	1020.2	1013.7	1015.5	1013.7	1020.2	1022.6	1030.4	1037.4	1046.4	1055.3
17.5°	959.0	956.1	948.2	955.2	948.2	956.1	959.0	963.2	972.3	985.0	998.4
20°	919.0	914.2	910.1	909.5	910.1	914.2	919.0	923.2	933.3	944.0	954.2
22.5°	880.9	876.7	876.2	872.4	876.2	876.7	880.9	887.4	897.6	903.5	913.2
25°	833.3	829.1	827.9	825.0	827.9	829.1	833.3	838.1	844.6	849.4	860.1
27.5°	796.8	794.7	792.6	793.5	792.6	794.7	796.8	797.4	800.3	806.7	812.8
30°	774.4	773.8	772.6	772.6	772.6	773.8	774.4	772.6	775.6	778.5	783.3
32.5°	755.8	755.7	756.4	756.4	756.4	755.7	755.8	753.0	754.1	755.2	757.6
35°	729.7	731.5	732.7	730.9	732.7	731.5	729.7	727.4	725.6	721.4	722.6
37.5°	706.2	707.9	709.6	711.6	709.6	707.9	706.2	701.3	697.0	693.3	689.1
40°	688.0	692.2	693.4	696.4	693.4	692.2	688.0	682.7	678.0	673.8	669.0
42.5°	670.9	675.5	678.6	679.2	678.6	675.5	670.9	665.6	658.4	653.3	646.6
45°	644.6	649.4	653.6	653.6	653.6	649.4	644.6	635.7	627.9	620.2	613.6
47.5°	617.3	624.2	628.4	629.5	628.4	624.2	617.3	608.2	597.4	587.8	578.4
50°	598.8	607.1	611.3	614.2	611.3	607.1	598.8	588.7	577.4	565.4	554.1
52.5°	580.7	589.0	594.6	596.2	594.6	589.0	580.7	568.2	554.5	541.7	531.8
55°	549.4	561.3	567.8	570.2	567.8	561.3	549.4	535.7	522.6	506.5	492.2
57.5°	519.9	530.8	538.5	540.2	538.5	530.8	519.9	503.8	486.9	469.8	454.5
60°	497.0	508.9	518.4	520.2	518.4	508.9	497.0	481.0	463.0	446.4	427.4
62.5°	473.6	486.0	494.6	499.3	494.6	486.0	473.6	456.7	437.4	418.8	399.8
65°	433.3	445.8	454.2	455.9	454.2	445.8	433.3	416.6	396.4	376.8	360.7
67.5°	389.3	401.7	407.3	410.7	407.3	401.7	389.3	373.6	353.5	333.2	315.0
70°	358.3	368.4	374.4	377.4	374.4	368.4	358.3	341.6	325.0	304.2	284.5
72.5°	323.0	333.6	340.6	341.2	340.6	333.6	323.0	308.8	291.2	271.8	254.5
75°	269.1	278.5	282.1	282.1	282.1	278.5	269.1	255.4	241.1	225.6	208.4
77.5°	212.9	217.8	222.4	223.3	222.4	217.8	212.9	203.1	191.3	175.8	162.8
80°	176.8	179.8	183.3	183.3	183.3	179.8	176.8	167.8	156.5	143.4	133.4
82.5°	139.7	142.2	145.7	145.3	145.7	142.2	139.7	132.6	123.2	114.4	105.2
85°	84.6	89.9	89.3	88.1	89.3	89.9	84.6	85.7	76.8	70.9	62.5
87.5°	43.8	44.4	45.9	46.9	45.9	44.4	43.8	42.3	37.9	35.2	33.1
90°	28.7	29.1	29.5	30.0	29.5	29.1	28.7	28.2	27.4	26.0	24.7
92.5°	43.7	43.9	44.2	44.4	44.2	43.9	43.7	43.3	42.8	42.0	41.2
95°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	78.7	78.0	77.3
97.5°	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.5	122.6	121.8
100°	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	154.8	154.4	153.9
102.5°	189.8	189.9	190.1	190.3	190.1	189.9	189.8	189.5	189.2	188.6	187.9
105°	242.1	242.7	243.4	244.1	243.4	242.7	242.1	241.4	240.7	240.0	239.4
107.5°	296.6	296.6	296.5	296.5	296.5	296.6	296.6	296.7	296.4	295.8	295.2
110°	332.1	332.8	333.5	334.1	333.5	332.8	332.1	331.4	331.3	331.7	332.2



TEST NUMBER: P332662-935

CATALOG NUMBER: SA4XXDIP-C1020D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	372.1	372.2	372.4	372.6	372.4	372.2	372.1	372.0	372.0	372.0	372.1
115°	432.8	432.6	432.4	432.1	432.4	432.6	432.8	433.0	433.3	433.4	433.7
117.5°	490.3	489.8	489.4	489.0	489.4	489.8	490.3	490.8	491.3	492.1	492.8
120°	530.8	531.2	531.8	532.2	531.8	531.2	530.8	530.4	530.7	531.8	533.0
122.5°	570.6	569.8	568.9	568.2	568.9	569.8	570.6	571.4	572.1	572.9	573.7
125°	631.5	631.1	630.6	630.2	630.6	631.1	631.5	632.0	632.4	632.8	633.3
127.5°	688.7	688.3	687.9	687.6	687.9	688.3	688.7	689.1	689.4	689.9	690.3
130°	727.9	727.0	726.1	725.2	726.1	727.0	727.9	728.8	729.4	729.9	730.3
132.5°	766.3	765.9	765.6	765.3	765.6	765.9	766.3	766.6	767.1	767.5	767.9
135°	822.3	821.6	820.9	820.3	820.9	821.6	822.3	822.9	823.5	823.9	824.4
137.5°	877.7	877.8	878.0	878.0	878.0	877.8	877.7	877.5	877.8	878.3	878.9
140°	914.0	913.7	913.5	913.3	913.5	913.7	914.0	914.2	914.4	914.6	914.8
142.5°	948.6	948.6	948.6	948.5	948.6	948.6	948.6	948.6	948.7	948.7	948.8
145°	998.3	997.6	997.0	996.3	997.0	997.6	998.3	998.9	999.4	999.6	999.9
147.5°	1045.4	1045.2	1044.9	1044.7	1044.9	1045.2	1045.4	1045.6	1045.8	1046.0	1046.2
150°	1075.0	1074.8	1074.5	1074.4	1074.5	1074.8	1075.0	1075.2	1075.3	1075.3	1075.3
152.5°	1103.3	1102.7	1102.1	1101.6	1102.1	1102.7	1103.3	1103.9	1103.9	1103.4	1102.8
155°	1142.0	1141.2	1140.2	1139.4	1140.2	1141.2	1142.0	1142.9	1142.9	1142.0	1141.2
157.5°	1175.4	1174.7	1173.9	1173.2	1173.9	1174.7	1175.4	1176.2	1176.2	1175.5	1174.9
160°	1195.7	1194.6	1193.5	1192.4	1193.5	1194.6	1195.7	1196.8	1197.0	1196.4	1195.7
162.5°	1215.7	1214.6	1213.5	1212.4	1213.5	1214.6	1215.7	1216.9	1216.8	1215.6	1214.4
165°	1241.0	1240.2	1239.2	1238.4	1239.2	1240.2	1241.0	1241.9	1241.7	1240.4	1239.1
167.5°	1261.1	1259.7	1258.4	1257.0	1258.4	1259.7	1261.1	1262.5	1262.5	1261.2	1259.8
170°	1272.0	1270.5	1268.9	1267.4	1268.9	1270.5	1272.0	1273.6	1273.8	1272.4	1271.1
172.5°	1280.8	1279.3	1277.7	1276.2	1277.7	1279.3	1280.8	1282.5	1282.5	1280.9	1279.4
175°	1290.0	1288.5	1286.9	1285.4	1286.9	1288.5	1290.0	1291.6	1291.6	1290.0	1288.5
177.5°	1294.4	1293.0	1291.6	1290.2	1291.6	1293.0	1294.4	1295.9	1296.0	1294.8	1293.5
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



TEST NUMBER: P332662-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1373.6	1375.4	1383.0	1390.2	1398.8	1405.0	1409.2	1414.0	1424.0	1432.1	1439.7
5°	1286.9	1289.9	1305.3	1316.0	1334.5	1350.6	1363.0	1376.7	1392.8	1414.8	1435.0
7.5°	1210.6	1221.6	1238.5	1255.9	1274.7	1295.8	1314.1	1334.7	1362.4	1392.7	1423.8
10°	1167.3	1179.7	1197.6	1217.8	1235.7	1260.1	1282.7	1307.1	1338.6	1375.5	1412.5
12.5°	1123.9	1144.4	1158.0	1182.1	1201.4	1221.5	1245.5	1277.6	1314.3	1353.1	1397.7
15°	1069.6	1080.9	1107.1	1120.2	1147.5	1178.5	1202.3	1234.5	1270.1	1321.4	1371.4
17.5°	1007.0	1021.8	1042.7	1067.7	1099.2	1123.3	1153.0	1186.0	1231.1	1281.9	1344.5
20°	966.0	978.5	1004.1	1031.5	1064.8	1090.5	1122.0	1154.1	1200.6	1254.7	1320.2
22.5°	929.4	941.4	968.5	993.9	1026.2	1057.6	1090.5	1127.9	1172.4	1229.5	1296.4
25°	872.6	888.6	912.5	938.7	969.6	1005.3	1041.0	1074.4	1122.0	1182.1	1253.5
27.5°	822.3	835.1	852.4	882.1	917.2	951.7	987.2	1029.2	1074.9	1138.4	1212.5
30°	789.9	801.8	819.0	846.4	879.2	916.0	953.0	993.4	1041.0	1104.1	1179.7
32.5°	764.1	773.2	788.5	813.0	842.9	881.8	918.2	960.1	1010.0	1072.2	1145.9
35°	726.2	733.9	739.9	763.1	789.9	825.5	862.5	907.1	955.3	1014.3	1088.0
37.5°	688.9	691.6	700.3	715.4	741.4	774.3	808.6	852.5	901.9	961.7	1028.3
40°	666.1	667.3	672.6	686.9	709.5	740.5	773.8	817.3	864.3	920.8	986.9
42.5°	643.7	642.9	647.8	657.8	679.0	707.1	739.9	779.6	826.6	878.9	941.2
45°	608.3	608.3	607.1	615.4	632.7	660.1	687.5	725.6	764.8	816.1	868.4
47.5°	571.4	568.1	569.1	573.4	588.0	610.4	638.1	669.3	703.9	747.3	793.2
50°	547.6	542.9	541.1	545.8	558.9	578.5	604.8	632.1	664.9	702.9	742.3
52.5°	521.4	516.7	513.4	516.8	528.9	547.1	570.9	595.0	624.4	655.3	689.4
55°	481.0	475.6	473.8	475.0	483.9	498.2	518.4	540.4	562.5	588.1	611.9
57.5°	441.1	432.2	430.6	430.0	436.2	449.3	466.1	485.3	501.3	516.8	542.1
60°	414.8	404.2	400.5	400.0	404.8	415.4	430.9	450.0	461.3	472.0	494.0
62.5°	386.8	376.5	368.7	369.5	373.8	384.0	397.6	411.4	418.9	430.6	445.5
65°	343.5	330.4	324.4	322.6	325.0	333.3	344.1	352.9	361.3	366.1	380.3
67.5°	300.1	289.1	280.3	278.2	277.2	282.8	291.6	297.0	303.0	307.1	315.6
70°	269.7	260.1	249.4	245.8	245.2	249.9	258.3	258.9	267.3	269.1	277.9
72.5°	239.6	227.7	220.3	216.8	214.3	218.5	224.0	225.6	230.1	233.3	238.0
75°	192.9	183.9	176.8	171.4	169.6	172.0	172.0	175.0	178.0	179.8	185.1
77.5°	151.8	141.5	133.1	130.0	127.9	126.3	127.6	129.4	127.9	131.0	132.2
80°	123.2	112.5	106.0	104.8	101.2	98.2	97.6	99.4	97.0	98.2	101.8
82.5°	95.1	88.3	81.2	80.0	75.5	74.0	73.4	72.2	72.2	72.0	72.8
85°	56.6	52.3	47.6	44.6	42.9	39.9	39.9	38.7	37.5	36.3	36.9
87.5°	27.6	26.3	23.6	21.8	20.5	18.3	17.8	15.8	14.9	13.9	13.0
90°	23.3	22.0	20.2	18.4	16.7	14.9	12.7	10.3	7.9	5.4	3.0
92.5°	40.4	39.6	38.4	37.1	35.9	34.6	32.6	29.8	27.0	24.2	21.4
95°	76.7	76.0	74.5	72.9	71.4	69.8	68.0	66.0	64.1	62.0	60.0
97.5°	121.1	120.2	118.4	116.6	114.8	113.0	111.2	109.6	108.1	106.4	104.9
100°	153.5	153.1	151.0	149.0	147.1	145.1	143.6	142.7	141.8	140.9	140.1
102.5°	187.3	186.7	184.9	183.0	181.2	179.3	178.3	177.9	177.5	177.2	176.8
105°	238.8	238.1	237.2	236.3	235.4	234.5	233.9	233.8	233.5	233.3	233.1
107.5°	294.5	293.9	293.8	293.6	293.5	293.3	293.2	292.9	292.7	292.4	292.1
110°	332.7	333.1	333.3	333.6	333.8	334.0	333.9	333.5	332.9	332.5	332.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	372.2	372.3	372.7	373.2	373.5	373.9	374.1	374.0	373.9	373.8	373.7
115°	433.9	434.1	434.5	435.1	435.5	435.9	436.1	436.1	436.1	436.1	436.1
117.5°	493.6	494.4	494.6	495.0	495.2	495.6	495.7	495.5	495.3	495.2	495.0
120°	534.1	535.2	535.8	536.5	537.2	537.9	537.7	536.8	536.0	535.0	534.2
122.5°	574.5	575.1	575.5	575.8	576.1	576.4	576.4	576.0	575.7	575.3	575.0
125°	633.8	634.2	634.4	634.6	634.9	635.1	635.2	635.2	635.2	635.2	635.2
127.5°	690.8	691.2	691.6	691.9	692.2	692.7	692.5	691.8	691.1	690.5	689.8
130°	730.8	731.2	731.2	731.2	731.2	731.2	730.9	730.2	729.5	728.9	728.2
132.5°	768.4	768.9	769.0	769.2	769.4	769.6	769.4	768.9	768.4	767.9	767.4
135°	824.8	825.3	825.3	825.3	825.3	825.3	824.6	823.3	821.9	820.6	819.2
137.5°	879.5	880.0	879.7	879.3	879.0	878.7	878.1	877.5	876.9	876.3	875.6
140°	915.1	915.2	915.2	915.2	915.2	915.2	915.1	914.6	914.2	913.7	913.3
142.5°	948.8	948.9	949.1	949.3	949.4	949.6	949.5	949.0	948.6	948.1	947.7
145°	1000.1	1000.3	1000.1	999.9	999.6	999.4	998.8	998.0	997.1	996.2	995.3
147.5°	1046.4	1046.5	1046.7	1046.9	1047.1	1047.2	1046.8	1045.7	1044.7	1043.6	1042.5
150°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1074.9	1074.0	1073.2	1072.2	1071.3
152.5°	1102.3	1101.7	1101.6	1101.4	1101.2	1101.0	1100.7	1100.1	1099.6	1099.1	1098.5
155°	1140.2	1139.4	1139.5	1139.8	1140.1	1140.2	1140.3	1140.3	1140.3	1140.3	1140.3
157.5°	1174.2	1173.5	1173.6	1173.6	1173.7	1173.7	1174.0	1174.4	1174.7	1175.2	1175.5
160°	1195.1	1194.4	1194.6	1194.8	1195.1	1195.2	1195.5	1195.7	1195.9	1196.2	1196.4
162.5°	1213.1	1211.9	1212.2	1212.5	1212.6	1212.9	1213.2	1213.8	1214.4	1215.0	1215.6
165°	1237.7	1236.4	1236.8	1237.3	1237.7	1238.1	1238.7	1239.4	1240.0	1240.7	1241.4
167.5°	1258.5	1257.1	1257.1	1257.1	1257.1	1257.0	1257.5	1258.4	1259.3	1260.2	1261.2
170°	1269.7	1268.4	1268.2	1267.9	1267.7	1267.5	1267.9	1269.0	1270.1	1271.3	1272.4
172.5°	1277.9	1276.4	1276.3	1276.3	1276.3	1276.2	1276.7	1277.6	1278.5	1279.4	1280.4
175°	1286.9	1285.4	1285.6	1285.8	1286.1	1286.2	1286.9	1288.1	1289.2	1290.3	1291.4
177.5°	1292.3	1291.0	1291.0	1291.0	1291.0	1291.0	1291.4	1292.4	1293.2	1294.1	1295.0
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1446.4	1451.1	1457.3	1467.8	1471.6	1476.4	1483.1	1482.6	1484.5	1491.6	1506.8
5°	1451.7	1470.2	1488.1	1509.5	1532.1	1547.0	1567.2	1579.7	1592.2	1608.3	1635.6
7.5°	1453.9	1483.2	1515.9	1553.5	1587.0	1625.6	1655.6	1683.9	1709.6	1743.5	1776.2
10°	1450.5	1489.8	1532.1	1579.7	1630.3	1673.2	1711.8	1755.9	1793.4	1834.4	1871.4
12.5°	1444.3	1491.8	1548.3	1601.6	1660.8	1724.1	1772.3	1816.8	1866.7	1914.0	1970.9
15°	1430.3	1495.2	1561.3	1631.5	1710.6	1783.8	1853.5	1911.2	1964.8	2035.7	2110.1
17.5°	1412.5	1482.5	1565.7	1650.8	1733.5	1817.2	1903.4	1990.2	2057.8	2145.8	2204.0
20°	1395.8	1476.7	1562.5	1663.6	1746.4	1850.5	1936.2	2020.2	2113.0	2200.5	2270.1
22.5°	1372.4	1461.0	1552.0	1652.7	1761.6	1865.8	1964.8	2055.9	2148.7	2243.9	2328.2
25°	1342.8	1423.1	1530.9	1645.2	1753.5	1866.6	1980.3	2094.6	2194.5	2295.2	2373.7
27.5°	1292.4	1393.8	1494.1	1612.1	1732.4	1860.4	1981.9	2101.6	2206.3	2289.1	2337.8
30°	1266.6	1354.7	1463.6	1582.1	1712.4	1849.9	1976.7	2094.0	2191.6	2257.6	2277.3
32.5°	1228.6	1319.5	1426.0	1548.8	1686.7	1828.0	1960.1	2070.6	2152.1	2186.7	2163.0
35°	1172.0	1254.1	1361.8	1487.5	1630.9	1781.5	1911.9	2005.3	2046.9	2014.2	1932.7
37.5°	1104.1	1185.5	1293.7	1417.1	1565.6	1718.6	1836.5	1903.8	1889.9	1808.5	1687.0
40°	1056.5	1132.7	1235.7	1369.0	1513.6	1667.2	1770.7	1807.1	1769.0	1652.3	1523.2
42.5°	1003.7	1078.0	1181.4	1309.9	1463.2	1604.8	1695.1	1698.1	1634.2	1494.7	1365.0
45°	923.2	994.0	1091.7	1225.5	1367.2	1500.6	1560.0	1530.9	1413.1	1278.5	1148.1
47.5°	843.8	905.2	1001.4	1128.5	1263.1	1375.3	1404.8	1352.3	1226.8	1096.1	975.3
50°	785.7	847.6	938.1	1059.5	1189.2	1286.2	1300.5	1230.9	1107.7	976.1	881.5
52.5°	730.0	791.4	878.6	990.9	1109.7	1197.2	1197.7	1117.1	994.4	877.1	789.1
55°	648.2	703.5	782.1	882.7	988.7	1057.1	1040.4	957.1	850.6	748.8	672.0
57.5°	569.4	617.6	690.0	773.9	867.2	923.7	896.0	815.8	720.7	634.4	576.2
60°	518.4	564.3	626.2	705.3	783.9	827.9	801.8	729.1	641.6	572.0	521.4
62.5°	468.9	507.6	567.1	635.8	708.7	741.3	718.0	646.3	570.7	507.7	466.7
65°	398.8	430.3	477.9	536.9	589.9	617.9	598.2	531.5	473.8	428.5	395.8
67.5°	333.3	358.0	394.0	441.3	486.3	501.4	483.5	437.1	388.2	352.0	328.9
70°	288.1	311.3	341.6	378.0	417.2	433.3	415.4	378.6	338.7	305.3	282.8
72.5°	248.6	266.6	292.1	323.2	354.0	370.0	357.8	322.4	288.7	263.9	244.6
75°	189.2	204.7	222.6	244.6	268.5	279.1	268.5	244.0	220.8	202.3	188.6
77.5°	137.6	145.9	159.7	176.2	191.1	199.2	190.0	173.4	159.3	146.6	139.9
80°	104.8	110.7	120.2	133.4	143.4	151.2	145.3	131.6	120.2	111.9	108.9
82.5°	76.2	80.2	86.4	96.2	103.0	106.9	104.3	94.4	89.7	82.4	79.4
85°	37.5	39.9	44.1	47.0	53.0	53.6	54.2	50.0	45.8	44.1	41.7
87.5°	13.9	14.9	16.8	18.8	21.1	21.9	21.8	22.1	20.6	20.4	18.8
90°	5.4	7.9	10.3	12.7	14.9	16.7	18.4	20.2	22.0	23.3	24.7
92.5°	24.2	27.0	29.8	32.6	34.6	35.9	37.1	38.4	39.6	40.4	41.2
95°	62.0	64.1	66.0	68.0	69.8	71.4	72.9	74.5	76.0	76.7	77.3
97.5°	106.4	108.1	109.6	111.2	113.0	114.8	116.6	118.4	120.2	121.1	121.8
100°	140.9	141.8	142.7	143.6	145.1	147.1	149.0	151.0	153.1	153.5	153.9
102.5°	177.2	177.5	177.9	178.3	179.3	181.2	183.0	184.9	186.7	187.3	187.9
105°	233.3	233.5	233.8	233.9	234.5	235.4	236.3	237.2	238.1	238.8	239.4
107.5°	292.4	292.7	292.9	293.2	293.3	293.5	293.6	293.8	293.9	294.5	295.2
110°	332.5	332.9	333.5	333.9	334.0	333.8	333.6	333.3	333.1	332.7	332.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	373.8	373.9	374.0	374.1	373.9	373.5	373.2	372.7	372.3	372.2	372.1
115°	436.1	436.1	436.1	436.1	435.9	435.5	435.1	434.5	434.1	433.9	433.7
117.5°	495.2	495.3	495.5	495.7	495.6	495.2	495.0	494.6	494.4	493.6	492.8
120°	535.0	536.0	536.8	537.7	537.9	537.2	536.5	535.8	535.2	534.1	533.0
122.5°	575.3	575.7	576.0	576.4	576.4	576.1	575.8	575.5	575.1	574.5	573.7
125°	635.2	635.2	635.2	635.2	635.1	634.9	634.6	634.4	634.2	633.8	633.3
127.5°	690.5	691.1	691.8	692.5	692.7	692.2	691.9	691.6	691.2	690.8	690.3
130°	728.9	729.5	730.2	730.9	731.2	731.2	731.2	731.2	731.2	730.8	730.3
132.5°	767.9	768.4	768.9	769.4	769.6	769.4	769.2	769.0	768.9	768.4	767.9
135°	820.6	821.9	823.3	824.6	825.3	825.3	825.3	825.3	825.3	824.8	824.4
137.5°	876.3	876.9	877.5	878.1	878.7	879.0	879.3	879.7	880.0	879.5	878.9
140°	913.7	914.2	914.6	915.1	915.2	915.2	915.2	915.2	915.2	915.1	914.8
142.5°	948.1	948.6	949.0	949.5	949.6	949.4	949.3	949.1	948.9	948.8	948.8
145°	996.2	997.1	998.0	998.8	999.4	999.6	999.9	1000.1	1000.3	1000.1	999.9
147.5°	1043.6	1044.7	1045.7	1046.8	1047.2	1047.1	1046.9	1046.7	1046.5	1046.4	1046.2
150°	1072.2	1073.2	1074.0	1074.9	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
152.5°	1099.1	1099.6	1100.1	1100.7	1101.0	1101.2	1101.4	1101.6	1101.7	1102.3	1102.8
155°	1140.3	1140.3	1140.3	1140.3	1140.2	1140.1	1139.8	1139.5	1139.4	1140.2	1141.2
157.5°	1175.2	1174.7	1174.4	1174.0	1173.7	1173.7	1173.6	1173.6	1173.5	1174.2	1174.9
160°	1196.2	1195.9	1195.7	1195.5	1195.2	1195.1	1194.8	1194.6	1194.4	1195.1	1195.7
162.5°	1215.0	1214.4	1213.8	1213.2	1212.9	1212.6	1212.5	1212.2	1211.9	1213.1	1214.4
165°	1240.7	1240.0	1239.4	1238.7	1238.1	1237.7	1237.3	1236.8	1236.4	1237.7	1239.1
167.5°	1260.2	1259.3	1258.4	1257.5	1257.0	1257.1	1257.1	1257.1	1257.1	1258.5	1259.8
170°	1271.3	1270.1	1269.0	1267.9	1267.5	1267.7	1267.9	1268.2	1268.4	1269.7	1271.1
172.5°	1279.4	1278.5	1277.6	1276.7	1276.2	1276.3	1276.3	1276.3	1276.4	1277.9	1279.4
175°	1290.3	1289.2	1288.1	1286.9	1286.2	1286.1	1285.8	1285.6	1285.4	1286.9	1288.5
177.5°	1294.1	1293.2	1292.4	1291.4	1291.0	1291.0	1291.0	1291.0	1291.0	1292.3	1293.5
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1514.5	1515.4	1519.7	1523.0	1524.0	1528.8	1529.2
5°	1647.5	1657.7	1677.3	1679.1	1682.0	1697.5	1685.7
7.5°	1803.5	1829.2	1846.3	1861.5	1867.0	1873.7	1872.3
10°	1903.5	1941.6	1960.7	1991.0	1992.2	1999.9	1995.2
12.5°	2004.0	2048.2	2083.0	2088.6	2114.1	2118.0	2124.7
15°	2146.3	2193.4	2241.6	2258.8	2294.0	2302.3	2315.4
17.5°	2280.2	2328.2	2362.1	2406.7	2421.1	2440.4	2427.2
20°	2353.5	2405.9	2448.7	2483.8	2498.7	2509.4	2508.3
22.5°	2397.8	2450.6	2485.4	2511.9	2525.8	2530.4	2530.1
25°	2425.5	2455.8	2466.6	2476.7	2461.3	2455.8	2458.2
27.5°	2348.4	2340.5	2312.6	2275.9	2237.7	2207.5	2191.1
30°	2242.2	2195.7	2153.4	2079.7	2041.6	2019.0	1998.7
32.5°	2091.7	2018.1	1936.8	1869.2	1825.9	1792.3	1787.3
35°	1833.8	1723.1	1623.8	1541.0	1498.1	1461.8	1453.5
37.5°	1559.1	1444.1	1354.6	1281.8	1235.7	1210.0	1186.1
40°	1376.7	1277.9	1189.8	1127.9	1092.8	1074.4	1059.5
42.5°	1236.2	1146.0	1058.4	1011.2	979.5	968.2	959.5
45°	1042.2	958.3	897.6	861.9	843.4	824.4	815.5
47.5°	886.8	818.6	778.5	748.2	728.4	717.1	711.4
50°	798.7	742.8	707.1	683.9	666.1	657.1	652.4
52.5°	720.7	674.8	644.7	626.3	614.2	607.6	605.7
55°	620.8	585.7	566.6	550.6	541.7	535.7	533.3
57.5°	539.6	512.6	497.1	483.9	480.4	475.4	473.8
60°	486.3	465.5	452.4	443.4	440.5	434.5	435.7
62.5°	439.1	422.1	411.0	405.8	401.9	396.9	398.6
65°	371.4	359.0	352.9	348.2	343.5	340.4	342.9
67.5°	311.7	303.1	295.0	292.2	289.9	289.4	286.9
70°	272.6	265.4	258.3	256.6	256.6	254.2	253.6
72.5°	235.0	229.7	225.0	223.7	221.8	222.7	220.2
75°	181.5	177.4	175.6	173.8	173.2	173.2	171.4
77.5°	134.1	131.0	128.2	128.2	126.1	125.3	125.0
80°	101.8	100.6	98.2	98.2	97.0	97.6	96.4
82.5°	76.5	74.9	74.4	73.4	71.8	71.9	70.7
85°	41.1	39.3	38.7	36.9	35.7	36.9	35.7
87.5°	19.5	19.3	18.9	18.1	17.7	17.8	16.4
90°	26.0	27.4	28.2	28.7	29.1	29.5	30.0
92.5°	42.0	42.8	43.3	43.7	43.9	44.2	44.4
95°	78.0	78.7	79.0	79.0	79.0	79.0	79.0
97.5°	122.6	123.5	123.8	123.8	123.8	123.8	123.8
100°	154.4	154.8	155.1	155.1	155.1	155.1	155.1
102.5°	188.6	189.2	189.5	189.8	189.9	190.1	190.3
105°	240.0	240.7	241.4	242.1	242.7	243.4	244.1
107.5°	295.8	296.4	296.7	296.6	296.6	296.5	296.5
110°	331.7	331.3	331.4	332.1	332.8	333.5	334.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	372.0	372.0	372.0	372.1	372.2	372.4	372.6
115°	433.4	433.3	433.0	432.8	432.6	432.4	432.1
117.5°	492.1	491.3	490.8	490.3	489.8	489.4	489.0
120°	531.8	530.7	530.4	530.8	531.2	531.8	532.2
122.5°	572.9	572.1	571.4	570.6	569.8	568.9	568.2
125°	632.8	632.4	632.0	631.5	631.1	630.6	630.2
127.5°	689.9	689.4	689.1	688.7	688.3	687.9	687.6
130°	729.9	729.4	728.8	727.9	727.0	726.1	725.2
132.5°	767.5	767.1	766.6	766.3	765.9	765.6	765.3
135°	823.9	823.5	822.9	822.3	821.6	820.9	820.3
137.5°	878.3	877.8	877.5	877.7	877.8	878.0	878.0
140°	914.6	914.4	914.2	914.0	913.7	913.5	913.3
142.5°	948.7	948.7	948.6	948.6	948.6	948.6	948.5
145°	999.6	999.4	998.9	998.3	997.6	997.0	996.3
147.5°	1046.0	1045.8	1045.6	1045.4	1045.2	1044.9	1044.7
150°	1075.3	1075.3	1075.2	1075.0	1074.8	1074.5	1074.4
152.5°	1103.4	1103.9	1103.9	1103.3	1102.7	1102.1	1101.6
155°	1142.0	1142.9	1142.9	1142.0	1141.2	1140.2	1139.4
157.5°	1175.5	1176.2	1176.2	1175.4	1174.7	1173.9	1173.2
160°	1196.4	1197.0	1196.8	1195.7	1194.6	1193.5	1192.4
162.5°	1215.6	1216.8	1216.9	1215.7	1214.6	1213.5	1212.4
165°	1240.4	1241.7	1241.9	1241.0	1240.2	1239.2	1238.4
167.5°	1261.2	1262.5	1262.5	1261.1	1259.7	1258.4	1257.0
170°	1272.4	1273.8	1273.6	1272.0	1270.5	1268.9	1267.4
172.5°	1280.9	1282.5	1282.5	1280.8	1279.3	1277.7	1276.2
175°	1290.0	1291.6	1291.6	1290.0	1288.5	1286.9	1285.4
177.5°	1294.8	1296.0	1295.9	1294.4	1293.0	1291.6	1290.2
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4

(END OF REPORT)