

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: P332973-830

Luminaire Tested: **SA4XXRDIP-C1020D1035U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332973-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1020D1035U830-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7983.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

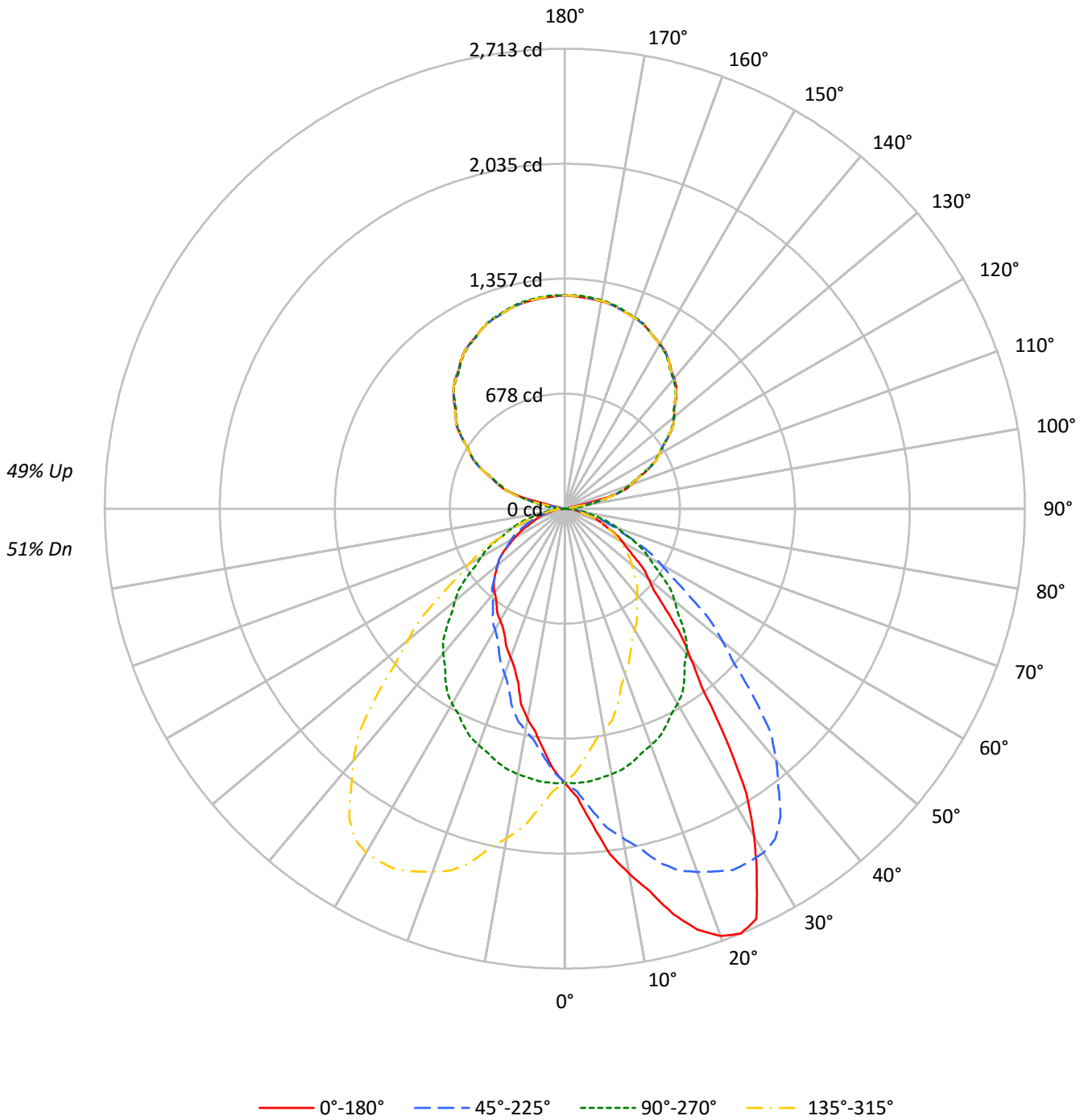
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	39	36	32
4	76	65	57	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	33	30	28	25
6	64	52	44	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	59	47	40	34	55	44	37	32	38	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	34	29	35	30	26	30	26	23	26	22	20	18
9	51	39	32	27	48	37	30	26	32	27	23	28	24	21	24	20	18	16
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13056	13056	13056	13056
5°	15144	13095	11574	13095
10°	17915	13038	10330	13038
15°	20695	12918	8877	12918
20°	23040	12752	8027	12752
25°	23785	12588	7452	12588
30°	20821	12392	7106	12392
35°	16208	12098	6897	12098
40°	12154	11763	6785	11763
45°	9597	11226	6725	11226
50°	8102	10605	6531	10605
55°	7061	9923	6180	9923
60°	6353	9216	5470	9216
65°	5601	8451	4705	8451
70°	5044	7659	4244	7659
75°	4226	6787	3618	6787
80°	3575	5783	3394	5783
85°	3020	4520	3020	4520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	2.0
10°-20°	472.7	5.9
20°-30°	739.3	9.3
30°-40°	821.9	10.3
40°-50°	729.2	9.1
50°-60°	568.2	7.1
60°-70°	372.0	4.7
70°-80°	182.9	2.3
80°-90°	48.8	0.6
90°-100°	43.0	0.5
100°-110°	274.3	3.4
110°-120°	524.8	6.6
120°-130°	666.2	8.3
130°-140°	712.8	8.9
140°-150°	666.5	8.3
150°-160°	537.5	6.7
160°-170°	346.7	4.3
170°-180°	119.5	1.5
0°-30°	1368.7	17.1
0°-40°	2190.5	27.4
0°-60°	3487.9	43.7
0°-90°	4091.6	51.3
90°-120°	842.2	10.5
90°-150°	2887.7	36.2
90°-180°	3891.0	48.7
0°-180°	7983.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1617	1617	1617	1617	1617	
5°	1869	1616	1428	1616	1869	189
15°	2476	1546	1062	1546	2476	704
25°	2670	1413	837	1413	2670	1185
35°	1645	1228	700	1228	1645	1031
45°	841	983	589	983	841	666
55°	502	705	439	705	502	456
65°	293	442	246	442	293	295
75°	136	218	116	218	136	149
85°	33	49	33	49	33	37
90°	28	3	28	3	28	14
95°	27	52	27	52	27	22
105°	268	283	268	283	268	234
115°	532	529	532	529	532	527
125°	749	743	749	743	749	667
135°	929	922	929	922	929	715
145°	1069	1063	1069	1063	1069	668
155°	1165	1166	1165	1166	1165	537
165°	1224	1230	1224	1230	1224	346
175°	1250	1258	1250	1258	1250	119
180°	1258	1258	1258	1258	1258	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1705.8	1710.5	1705.8	1705.3	1700.2	1698.6	1696.5	1689.7	1677.2	1669.9	1671.4
5°	1868.8	1885.0	1875.9	1874.6	1860.3	1846.0	1836.8	1816.0	1793.8	1778.9	1766.4
7.5°	2057.2	2066.5	2060.9	2051.7	2028.5	2015.3	1994.2	1966.7	1927.0	1896.6	1868.9
10°	2185.4	2193.2	2190.7	2173.7	2156.7	2122.2	2102.6	2064.3	2014.0	1974.3	1937.1
12.5°	2311.6	2319.9	2297.0	2297.7	2265.7	2238.4	2207.4	2159.1	2101.1	2049.8	2003.4
15°	2476.1	2465.6	2465.6	2452.6	2416.7	2379.0	2347.0	2296.2	2223.2	2161.9	2097.4
17.5°	2604.8	2608.4	2603.1	2572.3	2544.2	2505.1	2446.6	2387.3	2319.5	2237.3	2171.3
20°	2681.9	2681.9	2676.1	2655.2	2618.8	2577.0	2513.9	2449.3	2363.3	2280.6	2206.3
22.5°	2713.2	2715.3	2708.4	2691.1	2658.3	2617.6	2563.8	2498.3	2409.7	2316.5	2224.5
25°	2670.2	2682.6	2683.9	2679.3	2669.6	2644.8	2598.5	2531.4	2451.9	2350.9	2251.8
27.5°	2451.6	2467.2	2480.9	2503.4	2533.4	2549.0	2551.1	2517.0	2447.6	2350.4	2250.7
30°	2233.6	2246.6	2289.1	2344.4	2387.4	2426.5	2460.4	2469.5	2430.4	2343.1	2238.2
32.5°	1991.8	2009.5	2051.8	2111.4	2183.0	2249.3	2325.3	2364.2	2363.1	2310.7	2213.7
35°	1644.6	1657.6	1696.8	1759.3	1845.3	1943.7	2064.3	2158.0	2221.9	2217.3	2158.0
37.5°	1326.3	1341.0	1380.5	1432.5	1515.9	1637.7	1754.4	1883.6	2001.7	2068.0	2048.1
40°	1153.3	1154.0	1192.4	1245.9	1324.0	1430.2	1557.3	1700.6	1832.2	1939.8	1960.6
42.5°	1016.7	1016.8	1042.3	1099.9	1156.2	1256.1	1377.4	1519.8	1673.8	1798.0	1853.2
45°	840.6	846.4	867.2	901.8	946.1	1030.8	1127.8	1260.2	1432.9	1580.1	1672.0
47.5°	711.8	720.4	733.7	761.9	797.1	853.6	933.9	1052.7	1193.2	1355.2	1485.9
50°	645.1	646.4	663.3	678.9	709.5	754.5	824.9	924.0	1052.9	1208.7	1354.0
52.5°	587.8	587.5	597.7	617.5	642.3	677.4	734.2	824.3	938.8	1078.4	1228.3
55°	501.7	505.0	512.8	528.4	547.3	572.1	617.1	684.9	774.8	894.0	1030.2
57.5°	436.3	438.0	444.1	450.7	468.1	486.1	519.8	566.8	642.7	740.4	867.2
60°	393.5	394.2	396.2	406.0	419.6	436.6	459.4	499.1	563.0	652.2	752.6
62.5°	351.9	353.0	356.0	363.2	373.7	385.5	409.3	441.3	494.2	570.4	660.8
65°	293.2	293.9	298.4	301.0	309.5	319.9	337.5	359.0	395.5	459.4	527.8
67.5°	245.0	245.0	245.2	248.7	254.7	261.6	272.1	289.3	316.8	356.0	416.3
70°	213.7	213.7	215.0	217.0	220.3	226.1	232.0	245.0	265.2	297.1	343.4
72.5°	184.5	185.0	186.3	186.7	188.4	193.2	197.6	205.9	220.9	245.0	282.4
75°	135.5	137.5	140.7	143.4	146.6	146.0	150.5	155.7	160.3	174.7	196.1
77.5°	100.9	99.8	100.2	102.5	102.8	103.5	106.7	110.7	114.1	120.9	128.7
80°	76.9	76.9	78.8	79.5	78.8	79.5	82.8	84.7	86.1	88.6	95.8
82.5°	58.2	59.2	58.5	59.2	59.6	60.2	63.0	63.3	64.7	65.7	68.7
85°	32.6	33.3	33.8	32.6	32.6	32.6	33.8	34.5	35.8	35.2	36.5
87.5°	17.2	16.5	17.0	16.9	17.3	16.6	16.9	17.7	16.4	16.7	16.3
90°	28.2	27.8	27.4	27.0	26.6	25.7	24.5	23.2	22.0	20.7	19.0
92.5°	26.0	25.9	25.8	25.7	25.6	25.0	23.8	22.4	21.2	20.0	18.3
95°	27.2	27.1	26.9	26.7	26.5	25.7	24.5	23.2	22.0	20.7	20.5
97.5°	26.4	26.1	25.9	25.7	25.5	25.4	25.3	25.1	25.0	24.9	48.2
100°	26.4	26.1	25.9	25.7	25.5	27.1	30.7	34.3	37.9	41.4	70.2
102.5°	27.1	27.1	27.1	27.0	27.0	46.1	84.5	122.8	161.1	199.4	203.2
105°	268.2	275.7	283.2	290.8	298.3	301.0	299.2	297.4	295.5	293.6	292.6
107.5°	373.7	373.0	372.1	371.4	370.5	369.7	368.8	367.9	366.9	366.0	364.6
110°	419.6	419.1	418.4	417.7	417.2	416.6	416.2	415.8	415.4	414.9	413.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	465.5	464.8	464.0	463.2	462.4	462.0	462.1	462.2	462.3	462.3	461.8
115°	532.5	532.5	532.5	532.5	532.5	532.3	532.0	531.5	531.1	530.7	530.8
117.5°	600.7	600.8	600.9	601.0	601.1	601.1	601.2	601.2	601.3	601.4	601.0
120°	643.6	644.0	644.4	644.8	645.3	645.3	644.8	644.4	644.0	643.6	643.8
122.5°	685.7	686.2	686.5	687.0	687.4	687.5	687.2	687.0	686.7	686.5	686.2
125°	748.9	748.8	748.6	748.4	748.1	747.7	747.1	746.5	745.8	745.2	745.6
127.5°	804.5	804.6	804.8	805.0	805.1	805.3	805.4	805.6	805.7	805.8	804.8
130°	842.2	842.2	842.2	842.2	842.2	842.0	841.8	841.6	841.4	841.2	840.6
132.5°	876.8	876.9	877.0	877.2	877.4	877.4	877.2	876.9	876.8	876.6	875.7
135°	928.7	928.2	927.8	927.5	927.0	926.6	926.1	925.8	925.3	924.9	924.1
137.5°	973.1	973.2	973.4	973.5	973.6	973.5	973.0	972.5	972.0	971.6	970.6
140°	1004.0	1003.7	1003.5	1003.3	1003.1	1002.7	1002.1	1001.5	1000.8	1000.2	999.8
142.5°	1029.5	1029.5	1029.4	1029.4	1029.4	1029.2	1028.7	1028.2	1027.7	1027.3	1027.0
145°	1068.8	1068.5	1068.0	1067.6	1067.2	1066.9	1066.7	1066.5	1066.3	1066.0	1066.0
147.5°	1101.5	1101.3	1101.0	1100.8	1100.6	1100.4	1100.2	1100.0	1099.9	1099.8	1099.9
150°	1122.5	1122.3	1122.1	1121.9	1121.6	1121.5	1121.5	1121.5	1121.5	1121.5	1121.8
152.5°	1140.6	1140.7	1140.9	1140.9	1141.0	1140.9	1140.7	1140.3	1140.0	1139.6	1140.0
155°	1164.9	1165.5	1166.1	1166.8	1167.3	1167.2	1166.4	1165.5	1164.7	1163.9	1164.5
157.5°	1185.2	1186.3	1187.3	1188.5	1189.5	1189.5	1188.5	1187.3	1186.3	1185.2	1185.9
160°	1198.7	1200.0	1201.3	1202.5	1203.7	1203.7	1202.5	1201.3	1200.0	1198.7	1198.9
162.5°	1209.3	1210.7	1212.1	1213.5	1214.9	1215.0	1213.8	1212.5	1211.3	1210.0	1210.2
165°	1224.1	1226.0	1227.9	1229.7	1231.6	1231.7	1230.1	1228.4	1226.7	1225.0	1225.0
167.5°	1235.2	1237.3	1239.4	1241.5	1243.6	1243.7	1241.9	1240.0	1238.2	1236.3	1236.5
170°	1242.0	1244.1	1246.2	1248.3	1250.4	1250.6	1248.9	1247.3	1245.6	1243.9	1243.7
172.5°	1245.8	1248.0	1250.3	1252.5	1254.8	1255.1	1253.4	1251.8	1250.1	1248.4	1248.2
175°	1250.5	1253.0	1255.5	1258.0	1260.5	1260.8	1259.0	1257.1	1255.2	1253.3	1253.1
177.5°	1253.5	1255.5	1257.5	1259.5	1261.5	1261.9	1260.5	1259.1	1257.8	1256.5	1256.1
180°	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1666.2	1659.0	1655.3	1646.9	1637.0	1631.8	1627.1	1620.3	1611.5	1602.1	1595.3
5°	1750.8	1735.1	1715.6	1692.1	1671.3	1651.1	1633.5	1615.9	1595.7	1574.9	1554.1
7.5°	1837.6	1806.9	1773.6	1735.1	1697.8	1663.8	1632.5	1602.5	1568.6	1538.2	1510.6
10°	1898.1	1856.3	1810.1	1761.2	1712.3	1670.0	1628.3	1590.5	1548.8	1511.6	1480.4
12.5°	1947.1	1898.1	1842.4	1781.6	1722.8	1671.6	1623.6	1574.3	1526.9	1486.7	1444.9
15°	2028.4	1961.2	1886.3	1813.4	1737.1	1667.4	1602.9	1545.6	1491.5	1434.8	1395.1
17.5°	2084.2	2004.7	1913.5	1825.9	1735.8	1653.6	1579.1	1510.9	1448.5	1390.6	1343.3
20°	2117.6	2029.7	1928.7	1829.0	1728.0	1640.0	1559.9	1484.3	1419.8	1357.3	1308.3
22.5°	2136.4	2039.1	1928.7	1824.3	1719.7	1624.4	1536.4	1457.7	1387.5	1324.9	1270.8
25°	2142.4	2038.2	1925.4	1805.5	1690.8	1589.9	1498.6	1413.2	1335.1	1272.5	1215.2
27.5°	2134.1	2011.3	1895.8	1772.8	1654.5	1548.0	1452.3	1362.6	1284.3	1217.2	1158.4
30°	2121.6	1989.9	1866.1	1738.4	1618.5	1516.3	1415.2	1329.3	1247.7	1178.1	1118.8
32.5°	2094.4	1963.9	1830.7	1699.9	1578.4	1473.0	1377.1	1290.6	1210.8	1139.5	1076.6
35°	2040.8	1908.5	1763.9	1629.7	1510.3	1400.9	1311.0	1227.6	1151.3	1075.2	1008.6
37.5°	1970.0	1834.8	1691.0	1544.0	1424.7	1321.3	1238.8	1160.5	1086.1	1016.4	942.8
40°	1903.3	1780.1	1631.5	1485.6	1363.1	1263.4	1187.2	1116.2	1041.2	972.1	898.5
42.5°	1822.5	1717.6	1567.4	1421.0	1300.0	1204.0	1132.9	1063.5	995.3	928.4	851.6
45°	1687.6	1608.1	1467.4	1326.6	1204.8	1109.7	1044.5	983.3	923.3	859.4	787.1
47.5°	1533.0	1479.2	1357.7	1213.6	1100.9	1015.3	952.3	902.3	851.6	787.8	724.3
50°	1425.7	1391.1	1273.8	1142.3	1034.7	955.8	891.4	844.4	802.1	740.8	684.2
52.5°	1311.0	1292.6	1193.5	1067.7	963.8	886.6	831.4	789.2	746.3	695.5	642.4
55°	1136.3	1146.1	1062.1	953.3	855.5	790.4	740.2	705.0	668.5	625.6	584.5
57.5°	957.8	993.5	937.1	841.6	750.0	689.8	652.0	622.4	591.7	556.1	521.0
60°	850.9	880.9	849.0	765.0	684.9	628.8	593.6	570.8	540.2	507.6	480.9
62.5°	746.7	778.7	759.9	692.0	617.6	569.4	538.4	517.1	494.3	465.9	438.1
65°	615.8	636.6	627.5	580.6	527.8	486.7	458.1	442.4	421.6	400.8	376.0
67.5°	471.6	511.9	506.5	481.6	436.0	404.0	385.2	371.4	352.4	336.9	320.1
70°	387.7	424.8	424.1	404.0	379.2	349.2	336.2	324.5	307.6	292.6	278.9
72.5°	317.4	351.4	356.4	340.9	324.0	301.3	288.8	280.7	264.3	254.0	242.9
75°	222.2	246.9	253.4	253.4	245.6	233.9	222.8	217.6	205.9	196.8	190.3
77.5°	145.7	161.4	171.5	173.8	175.0	171.1	162.0	158.3	149.3	146.1	139.9
80°	102.9	113.4	125.1	129.0	132.2	131.0	127.1	124.4	116.0	112.7	110.1
82.5°	71.2	76.9	86.5	95.1	94.3	97.6	94.3	92.2	85.8	84.5	82.0
85°	37.1	37.8	39.1	45.0	48.3	49.5	50.1	48.8	46.9	46.9	42.3
87.5°	16.0	15.1	15.8	15.5	15.5	17.2	18.2	18.3	17.2	16.1	15.0
90°	17.3	15.6	14.0	12.1	9.7	7.4	5.1	2.8	5.1	7.4	9.7
92.5°	16.6	14.9	13.3	12.3	12.3	12.1	12.0	11.9	12.0	12.1	12.3
95°	20.3	20.1	19.9	23.3	30.4	37.5	44.7	51.7	44.7	37.5	30.4
97.5°	71.5	94.8	118.2	127.6	123.2	118.8	114.3	109.9	114.3	118.8	123.2
100°	99.2	128.0	156.8	169.4	165.6	161.8	158.1	154.3	158.1	161.8	165.6
102.5°	207.0	210.8	214.5	215.0	212.3	209.5	206.8	204.0	206.8	209.5	212.3
105°	291.4	290.4	289.4	288.2	287.0	285.7	284.5	283.2	284.5	285.7	287.0
107.5°	363.2	361.7	360.3	359.3	358.6	358.1	357.4	356.8	357.4	358.1	358.6
110°	412.5	411.1	409.9	409.0	408.3	407.7	407.1	406.5	407.1	407.7	408.3



TEST NUMBER: P332973-830

CATALOG NUMBER: SA4XXRDIP-C1020D1035U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	461.2	460.6	460.1	459.2	458.1	456.9	455.8	454.7	455.8	456.9	458.1
115°	531.1	531.3	531.5	531.3	530.7	530.1	529.4	528.8	529.4	530.1	530.7
117.5°	600.5	600.0	599.6	599.0	598.1	597.3	596.4	595.6	596.4	597.3	598.1
120°	644.0	644.2	644.4	644.1	643.3	642.4	641.6	640.7	641.6	642.4	643.3
122.5°	685.9	685.6	685.3	684.9	684.4	683.9	683.4	682.9	683.4	683.9	684.4
125°	746.0	746.5	746.9	746.7	745.8	745.0	744.1	743.3	744.1	745.0	745.8
127.5°	803.9	803.0	801.9	801.3	801.2	801.0	800.7	800.5	800.7	801.0	801.2
130°	839.9	839.3	838.7	838.2	838.0	837.8	837.6	837.4	837.6	837.8	838.0
132.5°	875.0	874.2	873.4	872.8	872.4	872.0	871.7	871.3	871.7	872.0	872.4
135°	923.2	922.4	921.5	921.2	921.4	921.7	921.9	922.1	921.9	921.7	921.4
137.5°	969.8	968.8	967.9	967.4	967.3	967.2	967.1	967.0	967.1	967.2	967.3
140°	999.4	998.9	998.5	998.1	997.7	997.3	996.8	996.5	996.8	997.3	997.7
142.5°	1026.8	1026.5	1026.2	1025.8	1025.0	1024.3	1023.5	1022.8	1023.5	1024.3	1025.0
145°	1066.0	1066.0	1066.0	1065.7	1065.1	1064.5	1063.8	1063.2	1063.8	1064.5	1065.1
147.5°	1100.1	1100.3	1100.6	1100.1	1098.9	1097.8	1096.6	1095.4	1096.6	1097.8	1098.9
150°	1122.0	1122.2	1122.4	1122.1	1121.2	1120.4	1119.6	1118.7	1119.6	1120.4	1121.2
152.5°	1140.4	1140.8	1141.1	1140.9	1140.3	1139.6	1139.0	1138.3	1139.0	1139.6	1140.3
155°	1165.2	1165.8	1166.4	1166.6	1166.4	1166.2	1166.0	1165.8	1166.0	1166.2	1166.4
157.5°	1186.6	1187.3	1188.0	1188.5	1188.5	1188.6	1188.8	1188.9	1188.8	1188.6	1188.5
160°	1199.1	1199.4	1199.6	1200.0	1200.6	1201.3	1201.8	1202.5	1201.8	1201.3	1200.6
162.5°	1210.4	1210.6	1210.9	1211.4	1212.1	1213.0	1213.7	1214.6	1213.7	1213.0	1212.1
165°	1225.0	1225.0	1225.0	1225.6	1226.6	1227.7	1228.7	1229.7	1228.7	1227.7	1226.6
167.5°	1236.6	1236.7	1236.9	1237.5	1238.6	1239.6	1240.8	1241.8	1240.8	1239.6	1238.6
170°	1243.5	1243.2	1243.0	1243.6	1244.8	1246.0	1247.4	1248.6	1247.4	1246.0	1244.8
172.5°	1248.0	1247.7	1247.5	1248.1	1249.3	1250.6	1251.9	1253.1	1251.9	1250.6	1249.3
175°	1252.9	1252.6	1252.5	1253.0	1254.2	1255.5	1256.8	1258.0	1256.8	1255.5	1254.2
177.5°	1255.8	1255.5	1255.2	1255.6	1256.8	1257.9	1259.0	1260.3	1259.0	1257.9	1256.8
180°	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0



TEST NUMBER: P332973-830

CATALOG NUMBER: SA4XXRDIP-C1020D1035U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1588.0	1582.8	1576.0	1568.2	1558.9	1550.5	1546.9	1550.0	1551.5	1547.4	1546.9
5°	1539.7	1523.4	1510.3	1490.8	1475.2	1462.2	1453.0	1449.2	1450.4	1440.0	1437.4
7.5°	1485.4	1466.0	1444.7	1421.4	1399.9	1380.7	1370.6	1365.2	1354.2	1349.4	1341.5
10°	1450.4	1424.4	1403.5	1376.1	1351.4	1328.6	1317.5	1308.3	1297.3	1292.1	1281.0
12.5°	1414.5	1384.2	1361.3	1332.8	1307.6	1280.1	1269.5	1252.6	1235.3	1224.4	1210.1
15°	1363.8	1327.3	1299.3	1265.4	1235.4	1204.1	1176.1	1144.8	1133.1	1108.3	1094.0
17.5°	1304.5	1267.4	1232.8	1187.3	1141.0	1102.2	1072.3	1042.4	1024.4	1008.6	1001.4
20°	1265.4	1231.5	1183.3	1130.5	1079.0	1036.0	1011.9	992.4	972.8	961.8	953.9
22.5°	1228.3	1185.1	1129.1	1072.1	1020.7	987.0	966.6	946.5	930.6	920.0	909.6
25°	1166.3	1109.7	1050.4	985.2	950.0	920.7	898.5	882.2	872.5	858.8	853.6
27.5°	1102.6	1034.0	968.6	924.7	888.1	861.3	842.0	829.7	817.4	808.6	801.8
30°	1053.6	983.9	925.3	883.5	846.4	824.3	808.6	794.3	784.5	777.3	772.1
32.5°	1005.1	935.4	886.2	841.3	812.0	790.4	773.7	763.0	755.4	746.0	742.9
35°	935.0	873.1	830.1	789.8	759.8	740.2	727.2	716.0	709.5	707.0	705.0
37.5°	867.6	817.0	770.7	737.6	710.9	695.5	680.1	674.7	670.2	665.5	667.6
40°	824.9	777.3	736.3	701.1	679.6	662.7	653.6	647.1	643.1	643.1	643.1
42.5°	787.9	741.4	701.3	669.9	648.3	634.0	623.9	618.3	617.1	616.5	619.6
45°	730.5	687.4	647.1	620.9	602.8	588.3	582.5	578.0	578.0	580.6	581.2
47.5°	673.4	633.2	600.8	571.6	554.9	545.9	540.8	538.5	538.8	541.3	544.3
50°	638.6	598.8	566.8	540.8	525.2	516.7	512.2	510.9	512.2	512.2	516.7
52.5°	600.5	565.0	533.5	511.6	493.9	486.0	483.4	481.6	482.4	484.6	486.4
55°	544.7	512.8	482.9	461.9	448.9	443.7	437.9	438.5	437.2	438.5	438.5
57.5°	488.8	460.1	432.3	415.8	404.3	396.7	390.3	392.1	390.2	389.9	388.9
60°	452.9	421.6	399.4	384.5	371.4	364.9	359.0	360.3	358.4	357.0	354.5
62.5°	413.8	387.7	366.6	352.1	341.7	334.1	328.3	327.0	322.4	318.0	312.3
65°	357.0	335.5	316.7	303.0	293.2	287.4	282.8	278.9	269.1	258.6	253.4
67.5°	302.0	286.4	268.8	257.2	249.3	241.6	232.9	226.2	217.1	211.4	208.1
70°	266.5	251.5	236.5	225.5	217.0	209.8	200.0	195.5	189.0	186.3	183.1
72.5°	232.6	218.7	204.7	194.7	185.7	180.1	172.4	167.9	164.9	163.9	160.7
75°	181.2	170.0	159.7	150.5	143.4	139.4	136.2	132.9	131.6	125.7	122.5
77.5°	132.1	124.9	118.3	111.8	106.7	104.2	97.8	94.1	91.9	89.2	88.5
80°	102.9	97.7	91.2	87.3	80.1	77.6	74.9	74.3	73.6	73.0	72.3
82.5°	77.4	72.2	65.7	63.3	61.4	59.9	58.2	57.6	56.9	57.3	57.2
85°	39.1	36.5	36.5	35.8	35.2	34.5	33.8	33.8	33.3	33.8	33.3
87.5°	15.5	15.3	15.6	14.9	15.8	16.1	15.8	16.1	16.9	16.1	16.2
90°	12.1	14.0	15.6	17.3	19.0	20.7	22.0	23.2	24.5	25.7	26.6
92.5°	12.3	13.3	14.9	16.6	18.3	20.0	21.2	22.4	23.8	25.0	25.6
95°	23.3	19.9	20.1	20.3	20.5	20.7	22.0	23.2	24.5	25.7	26.5
97.5°	127.6	118.2	94.8	71.5	48.2	24.9	25.0	25.1	25.3	25.4	25.5
100°	169.4	156.8	128.0	99.2	70.2	41.4	37.9	34.3	30.7	27.1	25.5
102.5°	215.0	214.5	210.8	207.0	203.2	199.4	161.1	122.8	84.5	46.1	27.0
105°	288.2	289.4	290.4	291.4	292.6	293.6	295.5	297.4	299.2	301.0	298.3
107.5°	359.3	360.3	361.7	363.2	364.6	366.0	366.9	367.9	368.8	369.7	370.5
110°	409.0	409.9	411.1	412.5	413.7	414.9	415.4	415.8	416.2	416.6	417.2



TEST NUMBER: P332973-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	459.2	460.1	460.6	461.2	461.8	462.3	462.3	462.2	462.1	462.0	462.4
115°	531.3	531.5	531.3	531.1	530.8	530.7	531.1	531.5	532.0	532.3	532.5
117.5°	599.0	599.6	600.0	600.5	601.0	601.4	601.3	601.2	601.2	601.1	601.1
120°	644.1	644.4	644.2	644.0	643.8	643.6	644.0	644.4	644.8	645.3	645.3
122.5°	684.9	685.3	685.6	685.9	686.2	686.5	686.7	687.0	687.2	687.5	687.4
125°	746.7	746.9	746.5	746.0	745.6	745.2	745.8	746.5	747.1	747.7	748.1
127.5°	801.3	801.9	803.0	803.9	804.8	805.8	805.7	805.6	805.4	805.3	805.1
130°	838.2	838.7	839.3	839.9	840.6	841.2	841.4	841.6	841.8	842.0	842.2
132.5°	872.8	873.4	874.2	875.0	875.7	876.6	876.8	876.9	877.2	877.4	877.4
135°	921.2	921.5	922.4	923.2	924.1	924.9	925.3	925.8	926.1	926.6	927.0
137.5°	967.4	967.9	968.8	969.8	970.6	971.6	972.0	972.5	973.0	973.5	973.6
140°	998.1	998.5	998.9	999.4	999.8	1000.2	1000.8	1001.5	1002.1	1002.7	1003.1
142.5°	1025.8	1026.2	1026.5	1026.8	1027.0	1027.3	1027.7	1028.2	1028.7	1029.2	1029.4
145°	1065.7	1066.0	1066.0	1066.0	1066.0	1066.0	1066.3	1066.5	1066.7	1066.9	1067.2
147.5°	1100.1	1100.6	1100.3	1100.1	1099.9	1099.8	1099.9	1100.0	1100.2	1100.4	1100.6
150°	1122.1	1122.4	1122.2	1122.0	1121.8	1121.5	1121.5	1121.5	1121.5	1121.5	1121.6
152.5°	1140.9	1141.1	1140.8	1140.4	1140.0	1139.6	1140.0	1140.3	1140.7	1140.9	1141.0
155°	1166.6	1166.4	1165.8	1165.2	1164.5	1163.9	1164.7	1165.5	1166.4	1167.2	1167.3
157.5°	1188.5	1188.0	1187.3	1186.6	1185.9	1185.2	1186.3	1187.3	1188.5	1189.5	1189.5
160°	1200.0	1199.6	1199.4	1199.1	1198.9	1198.7	1200.0	1201.3	1202.5	1203.7	1203.7
162.5°	1211.4	1210.9	1210.6	1210.4	1210.2	1210.0	1211.3	1212.5	1213.8	1215.0	1214.9
165°	1225.6	1225.0	1225.0	1225.0	1225.0	1225.0	1226.7	1228.4	1230.1	1231.7	1231.6
167.5°	1237.5	1236.9	1236.7	1236.6	1236.5	1236.3	1238.2	1240.0	1241.9	1243.7	1243.6
170°	1243.6	1243.0	1243.2	1243.5	1243.7	1243.9	1245.6	1247.3	1248.9	1250.6	1250.4
172.5°	1248.1	1247.5	1247.7	1248.0	1248.2	1248.4	1250.1	1251.8	1253.4	1255.1	1254.8
175°	1253.0	1252.5	1252.6	1252.9	1253.1	1253.3	1255.2	1257.1	1259.0	1260.8	1260.5
177.5°	1255.6	1255.2	1255.5	1255.8	1256.1	1256.5	1257.8	1259.1	1260.5	1261.9	1261.5
180°	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0



TEST NUMBER: P332973-830

CATALOG NUMBER: SA4XXRDIP-C1020D1035U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1543.7	1544.7	1541.2	1540.1	1541.2	1544.7	1543.7	1546.9	1547.4	1551.5	1550.0
5°	1432.2	1430.9	1427.6	1428.2	1427.6	1430.9	1432.2	1437.4	1440.0	1450.4	1449.2
7.5°	1336.8	1331.7	1333.1	1327.9	1333.1	1331.7	1336.8	1341.5	1349.4	1354.2	1365.2
10°	1278.4	1271.2	1265.4	1260.2	1265.4	1271.2	1278.4	1281.0	1292.1	1297.3	1308.3
12.5°	1198.6	1192.5	1184.6	1186.2	1184.6	1192.5	1198.6	1210.1	1224.4	1235.3	1252.6
15°	1085.5	1075.7	1060.2	1062.1	1060.2	1075.7	1085.5	1094.0	1108.3	1133.1	1144.8
17.5°	989.8	989.9	982.7	984.4	982.7	989.9	989.8	1001.4	1008.6	1024.4	1042.4
20°	940.3	935.7	936.3	934.3	936.3	935.7	940.3	953.9	961.8	972.8	992.4
22.5°	905.9	900.2	895.7	891.6	895.7	900.2	905.9	909.6	920.0	930.6	946.5
25°	847.7	843.8	837.9	836.6	837.9	843.8	847.7	853.6	858.8	872.5	882.2
27.5°	796.6	795.9	793.5	790.5	793.5	795.9	796.6	801.8	808.6	817.4	829.7
30°	766.9	765.6	764.3	762.3	764.3	765.6	766.9	772.1	777.3	784.5	794.3
32.5°	740.4	739.5	738.2	738.4	738.2	739.5	740.4	742.9	746.0	755.4	763.0
35°	702.4	701.7	700.5	699.8	700.5	701.7	702.4	705.0	707.0	709.5	716.0
37.5°	666.9	668.6	667.9	667.7	667.9	668.6	666.9	667.6	665.5	670.2	674.7
40°	642.4	643.1	644.4	643.8	644.4	643.1	642.4	643.1	643.1	643.1	647.1
42.5°	622.2	622.3	624.1	621.9	624.1	622.3	622.2	619.6	616.5	617.1	618.3
45°	585.8	589.7	589.0	589.0	589.0	589.7	585.8	581.2	580.6	578.0	578.0
47.5°	546.0	549.4	550.4	550.2	550.4	549.4	546.0	544.3	541.3	538.8	538.5
50°	520.0	518.7	520.7	520.0	520.7	518.7	520.0	516.7	512.2	512.2	510.9
52.5°	488.1	488.4	488.3	487.7	488.3	488.4	488.1	486.4	484.6	482.4	481.6
55°	439.1	439.8	438.5	439.1	438.5	439.8	439.1	438.5	438.5	437.2	438.5
57.5°	386.0	382.9	384.2	382.6	384.2	382.9	386.0	388.9	389.9	390.2	392.1
60°	348.0	342.7	341.4	338.8	341.4	342.7	348.0	354.5	357.0	358.4	360.3
62.5°	305.2	301.5	297.1	299.2	297.1	301.5	305.2	312.3	318.0	322.4	327.0
65°	248.3	245.6	243.6	246.3	243.6	245.6	248.3	253.4	258.6	269.1	278.9
67.5°	205.5	204.1	204.1	202.7	204.1	204.1	205.5	208.1	211.4	217.1	226.2
70°	183.1	181.2	181.2	179.8	181.2	181.2	183.1	183.1	186.3	189.0	195.5
72.5°	160.1	158.2	158.7	158.0	158.7	158.2	160.1	160.7	163.9	164.9	167.9
75°	118.6	115.4	115.4	116.0	115.4	115.4	118.6	122.5	125.7	131.6	132.9
77.5°	88.5	87.8	88.8	87.6	88.8	87.8	88.5	88.5	89.2	91.9	94.1
80°	72.3	71.6	71.1	73.0	71.1	71.6	72.3	72.3	73.0	73.6	74.3
82.5°	56.2	56.1	55.9	58.3	55.9	56.1	56.2	57.2	57.3	56.9	57.6
85°	33.8	32.6	33.8	32.6	33.8	32.6	33.8	33.3	33.8	33.3	33.8
87.5°	17.3	17.0	16.5	17.2	16.5	17.0	17.3	16.2	16.1	16.9	16.1
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.7	24.5	23.2
92.5°	25.7	25.8	25.9	26.0	25.9	25.8	25.7	25.6	25.0	23.8	22.4
95°	26.7	26.9	27.1	27.2	27.1	26.9	26.7	26.5	25.7	24.5	23.2
97.5°	25.7	25.9	26.1	26.4	26.1	25.9	25.7	25.5	25.4	25.3	25.1
100°	25.7	25.9	26.1	26.4	26.1	25.9	25.7	25.5	27.1	30.7	34.3
102.5°	27.0	27.1	27.1	27.1	27.1	27.1	27.0	27.0	46.1	84.5	122.8
105°	290.8	283.2	275.7	268.2	275.7	283.2	290.8	298.3	301.0	299.2	297.4
107.5°	371.4	372.1	373.0	373.7	373.0	372.1	371.4	370.5	369.7	368.8	367.9
110°	417.7	418.4	419.1	419.6	419.1	418.4	417.7	417.2	416.6	416.2	415.8



TEST NUMBER: P332973-830

CATALOG NUMBER: SA4XXRDIP-C1020D1035U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	463.2	464.0	464.8	465.5	464.8	464.0	463.2	462.4	462.0	462.1	462.2
115°	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.3	532.0	531.5
117.5°	601.0	600.9	600.8	600.7	600.8	600.9	601.0	601.1	601.1	601.2	601.2
120°	644.8	644.4	644.0	643.6	644.0	644.4	644.8	645.3	645.3	644.8	644.4
122.5°	687.0	686.5	686.2	685.7	686.2	686.5	687.0	687.4	687.5	687.2	687.0
125°	748.4	748.6	748.8	748.9	748.8	748.6	748.4	748.1	747.7	747.1	746.5
127.5°	805.0	804.8	804.6	804.5	804.6	804.8	805.0	805.1	805.3	805.4	805.6
130°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.0	841.8	841.6
132.5°	877.2	877.0	876.9	876.8	876.9	877.0	877.2	877.4	877.4	877.2	876.9
135°	927.5	927.8	928.2	928.7	928.2	927.8	927.5	927.0	926.6	926.1	925.8
137.5°	973.5	973.4	973.2	973.1	973.2	973.4	973.5	973.6	973.5	973.0	972.5
140°	1003.3	1003.5	1003.7	1004.0	1003.7	1003.5	1003.3	1003.1	1002.7	1002.1	1001.5
142.5°	1029.4	1029.4	1029.5	1029.5	1029.5	1029.4	1029.4	1029.4	1029.2	1028.7	1028.2
145°	1067.6	1068.0	1068.5	1068.8	1068.5	1068.0	1067.6	1067.2	1066.9	1066.7	1066.5
147.5°	1100.8	1101.0	1101.3	1101.5	1101.3	1101.0	1100.8	1100.6	1100.4	1100.2	1100.0
150°	1121.9	1122.1	1122.3	1122.5	1122.3	1122.1	1121.9	1121.6	1121.5	1121.5	1121.5
152.5°	1140.9	1140.9	1140.7	1140.6	1140.7	1140.9	1140.9	1141.0	1140.9	1140.7	1140.3
155°	1166.8	1166.1	1165.5	1164.9	1165.5	1166.1	1166.8	1167.3	1167.2	1166.4	1165.5
157.5°	1188.5	1187.3	1186.3	1185.2	1186.3	1187.3	1188.5	1189.5	1189.5	1188.5	1187.3
160°	1202.5	1201.3	1200.0	1198.7	1200.0	1201.3	1202.5	1203.7	1203.7	1202.5	1201.3
162.5°	1213.5	1212.1	1210.7	1209.3	1210.7	1212.1	1213.5	1214.9	1215.0	1213.8	1212.5
165°	1229.7	1227.9	1226.0	1224.1	1226.0	1227.9	1229.7	1231.6	1231.7	1230.1	1228.4
167.5°	1241.5	1239.4	1237.3	1235.2	1237.3	1239.4	1241.5	1243.6	1243.7	1241.9	1240.0
170°	1248.3	1246.2	1244.1	1242.0	1244.1	1246.2	1248.3	1250.4	1250.6	1248.9	1247.3
172.5°	1252.5	1250.3	1248.0	1245.8	1248.0	1250.3	1252.5	1254.8	1255.1	1253.4	1251.8
175°	1258.0	1255.5	1253.0	1250.5	1253.0	1255.5	1258.0	1260.5	1260.8	1259.0	1257.1
177.5°	1259.5	1257.5	1255.5	1253.5	1255.5	1257.5	1259.5	1261.5	1261.9	1260.5	1259.1
180°	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0



TEST NUMBER: P332973-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1546.9	1550.5	1558.9	1568.2	1576.0	1582.8	1588.0	1595.3	1602.1	1611.5	1620.3
5°	1453.0	1462.2	1475.2	1490.8	1510.3	1523.4	1539.7	1554.1	1574.9	1595.7	1615.9
7.5°	1370.6	1380.7	1399.9	1421.4	1444.7	1466.0	1485.4	1510.6	1538.2	1568.6	1602.5
10°	1317.5	1328.6	1351.4	1376.1	1403.5	1424.4	1450.4	1480.4	1511.6	1548.8	1590.5
12.5°	1269.5	1280.1	1307.6	1332.8	1361.3	1384.2	1414.5	1444.9	1486.7	1526.9	1574.3
15°	1176.1	1204.1	1235.4	1265.4	1299.3	1327.3	1363.8	1395.1	1434.8	1491.5	1545.6
17.5°	1072.3	1102.2	1141.0	1187.3	1232.8	1267.4	1304.5	1343.3	1390.6	1448.5	1510.9
20°	1011.9	1036.0	1079.0	1130.5	1183.3	1231.5	1265.4	1308.3	1357.3	1419.8	1484.3
22.5°	966.6	987.0	1020.7	1072.1	1129.1	1185.1	1228.3	1270.8	1324.9	1387.5	1457.7
25°	898.5	920.7	950.0	985.2	1050.4	1109.7	1166.3	1215.2	1272.5	1335.1	1413.2
27.5°	842.0	861.3	888.1	924.7	968.6	1034.0	1102.6	1158.4	1217.2	1284.3	1362.6
30°	808.6	824.3	846.4	883.5	925.3	983.9	1053.6	1118.8	1178.1	1247.7	1329.3
32.5°	773.7	790.4	812.0	841.3	886.2	935.4	1005.1	1076.6	1139.5	1210.8	1290.6
35°	727.2	740.2	759.8	789.8	830.1	873.1	935.0	1008.6	1075.2	1151.3	1227.6
37.5°	680.1	695.5	710.9	737.6	770.7	817.0	867.6	942.8	1016.4	1086.1	1160.5
40°	653.6	662.7	679.6	701.1	736.3	777.3	824.9	898.5	972.1	1041.2	1116.2
42.5°	623.9	634.0	648.3	669.9	701.3	741.4	787.9	851.6	928.4	995.3	1063.5
45°	582.5	588.3	602.8	620.9	647.1	687.4	730.5	787.1	859.4	923.3	983.3
47.5°	540.8	545.9	554.9	571.6	600.8	633.2	673.4	724.3	787.8	851.6	902.3
50°	512.2	516.7	525.2	540.8	566.8	598.8	638.6	684.2	740.8	802.1	844.4
52.5°	483.4	486.0	493.9	511.6	533.5	565.0	600.5	642.4	695.5	746.3	789.2
55°	437.9	443.7	448.9	461.9	482.9	512.8	544.7	584.5	625.6	668.5	705.0
57.5°	390.3	396.7	404.3	415.8	432.3	460.1	488.8	521.0	556.1	591.7	622.4
60°	359.0	364.9	371.4	384.5	399.4	421.6	452.9	480.9	507.6	540.2	570.8
62.5°	328.3	334.1	341.7	352.1	366.6	387.7	413.8	438.1	465.9	494.3	517.1
65°	282.8	287.4	293.2	303.0	316.7	335.5	357.0	376.0	400.8	421.6	442.4
67.5°	232.9	241.6	249.3	257.2	268.8	286.4	302.0	320.1	336.9	352.4	371.4
70°	200.0	209.8	217.0	225.5	236.5	251.5	266.5	278.9	292.6	307.6	324.5
72.5°	172.4	180.1	185.7	194.7	204.7	218.7	232.6	242.9	254.0	264.3	280.7
75°	136.2	139.4	143.4	150.5	159.7	170.0	181.2	190.3	196.8	205.9	217.6
77.5°	97.8	104.2	106.7	111.8	118.3	124.9	132.1	139.9	146.1	149.3	158.3
80°	74.9	77.6	80.1	87.3	91.2	97.7	102.9	110.1	112.7	116.0	124.4
82.5°	58.2	59.9	61.4	63.3	65.7	72.2	77.4	82.0	84.5	85.8	92.2
85°	33.8	34.5	35.2	35.8	36.5	36.5	39.1	42.3	46.9	46.9	48.8
87.5°	15.8	16.1	15.8	14.9	15.6	15.3	15.5	15.0	16.1	17.2	18.3
90°	22.0	20.7	19.0	17.3	15.6	14.0	12.1	9.7	7.4	5.1	2.8
92.5°	21.2	20.0	18.3	16.6	14.9	13.3	12.3	12.3	12.1	12.0	11.9
95°	22.0	20.7	20.5	20.3	20.1	19.9	23.3	30.4	37.5	44.7	51.7
97.5°	25.0	24.9	48.2	71.5	94.8	118.2	127.6	123.2	118.8	114.3	109.9
100°	37.9	41.4	70.2	99.2	128.0	156.8	169.4	165.6	161.8	158.1	154.3
102.5°	161.1	199.4	203.2	207.0	210.8	214.5	215.0	212.3	209.5	206.8	204.0
105°	295.5	293.6	292.6	291.4	290.4	289.4	288.2	287.0	285.7	284.5	283.2
107.5°	366.9	366.0	364.6	363.2	361.7	360.3	359.3	358.6	358.1	357.4	356.8
110°	415.4	414.9	413.7	412.5	411.1	409.9	409.0	408.3	407.7	407.1	406.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	462.3	462.3	461.8	461.2	460.6	460.1	459.2	458.1	456.9	455.8	454.7
115°	531.1	530.7	530.8	531.1	531.3	531.5	531.3	530.7	530.1	529.4	528.8
117.5°	601.3	601.4	601.0	600.5	600.0	599.6	599.0	598.1	597.3	596.4	595.6
120°	644.0	643.6	643.8	644.0	644.2	644.4	644.1	643.3	642.4	641.6	640.7
122.5°	686.7	686.5	686.2	685.9	685.6	685.3	684.9	684.4	683.9	683.4	682.9
125°	745.8	745.2	745.6	746.0	746.5	746.9	746.7	745.8	745.0	744.1	743.3
127.5°	805.7	805.8	804.8	803.9	803.0	801.9	801.3	801.2	801.0	800.7	800.5
130°	841.4	841.2	840.6	839.9	839.3	838.7	838.2	838.0	837.8	837.6	837.4
132.5°	876.8	876.6	875.7	875.0	874.2	873.4	872.8	872.4	872.0	871.7	871.3
135°	925.3	924.9	924.1	923.2	922.4	921.5	921.2	921.4	921.7	921.9	922.1
137.5°	972.0	971.6	970.6	969.8	968.8	967.9	967.4	967.3	967.2	967.1	967.0
140°	1000.8	1000.2	999.8	999.4	998.9	998.5	998.1	997.7	997.3	996.8	996.5
142.5°	1027.7	1027.3	1027.0	1026.8	1026.5	1026.2	1025.8	1025.0	1024.3	1023.5	1022.8
145°	1066.3	1066.0	1066.0	1066.0	1066.0	1066.0	1065.7	1065.1	1064.5	1063.8	1063.2
147.5°	1099.9	1099.8	1099.9	1100.1	1100.3	1100.6	1100.1	1098.9	1097.8	1096.6	1095.4
150°	1121.5	1121.5	1121.8	1122.0	1122.2	1122.4	1122.1	1121.2	1120.4	1119.6	1118.7
152.5°	1140.0	1139.6	1140.0	1140.4	1140.8	1141.1	1140.9	1140.3	1139.6	1139.0	1138.3
155°	1164.7	1163.9	1164.5	1165.2	1165.8	1166.4	1166.6	1166.4	1166.2	1166.0	1165.8
157.5°	1186.3	1185.2	1185.9	1186.6	1187.3	1188.0	1188.5	1188.5	1188.6	1188.8	1188.9
160°	1200.0	1198.7	1198.9	1199.1	1199.4	1199.6	1200.0	1200.6	1201.3	1201.8	1202.5
162.5°	1211.3	1210.0	1210.2	1210.4	1210.6	1210.9	1211.4	1212.1	1213.0	1213.7	1214.6
165°	1226.7	1225.0	1225.0	1225.0	1225.0	1225.0	1225.6	1226.6	1227.7	1228.7	1229.7
167.5°	1238.2	1236.3	1236.5	1236.6	1236.7	1236.9	1237.5	1238.6	1239.6	1240.8	1241.8
170°	1245.6	1243.9	1243.7	1243.5	1243.2	1243.0	1243.6	1244.8	1246.0	1247.4	1248.6
172.5°	1250.1	1248.4	1248.2	1248.0	1247.7	1247.5	1248.1	1249.3	1250.6	1251.9	1253.1
175°	1255.2	1253.3	1253.1	1252.9	1252.6	1252.5	1253.0	1254.2	1255.5	1256.8	1258.0
177.5°	1257.8	1256.5	1256.1	1255.8	1255.5	1255.2	1255.6	1256.8	1257.9	1259.0	1260.3
180°	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0



TEST NUMBER: P332973-830

CATALOG NUMBER: SA4XXRDIP-C1020D1035U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1627.1	1631.8	1637.0	1646.9	1655.3	1659.0	1666.2	1671.4	1669.9	1677.2	1689.7
5°	1633.5	1651.1	1671.3	1692.1	1715.6	1735.1	1750.8	1766.4	1778.9	1793.8	1816.0
7.5°	1632.5	1663.8	1697.8	1735.1	1773.6	1806.9	1837.6	1868.9	1896.6	1927.0	1966.7
10°	1628.3	1670.0	1712.3	1761.2	1810.1	1856.3	1898.1	1937.1	1974.3	2014.0	2064.3
12.5°	1623.6	1671.6	1722.8	1781.6	1842.4	1898.1	1947.1	2003.4	2049.8	2101.1	2159.1
15°	1602.9	1667.4	1737.1	1813.4	1886.3	1961.2	2028.4	2097.4	2161.9	2223.2	2296.2
17.5°	1579.1	1653.6	1735.8	1825.9	1913.5	2004.7	2084.2	2171.3	2237.3	2319.5	2387.3
20°	1559.9	1640.0	1728.0	1829.0	1928.7	2029.7	2117.6	2206.3	2280.6	2363.3	2449.3
22.5°	1536.4	1624.4	1719.7	1824.3	1928.7	2039.1	2136.4	2224.5	2316.5	2409.7	2498.3
25°	1498.6	1589.9	1690.8	1805.5	1925.4	2038.2	2142.4	2251.8	2350.9	2451.9	2531.4
27.5°	1452.3	1548.0	1654.5	1772.8	1895.8	2011.3	2134.1	2250.7	2350.4	2447.6	2517.0
30°	1415.2	1516.3	1618.5	1738.4	1866.1	1989.9	2121.6	2238.2	2343.1	2430.4	2469.5
32.5°	1377.1	1473.0	1578.4	1699.9	1830.7	1963.9	2094.4	2213.7	2310.7	2363.1	2364.2
35°	1311.0	1400.9	1510.3	1629.7	1763.9	1908.5	2040.8	2158.0	2217.3	2221.9	2158.0
37.5°	1238.8	1321.3	1424.7	1544.0	1691.0	1834.8	1970.0	2048.1	2068.0	2001.7	1883.6
40°	1187.2	1263.4	1363.1	1485.6	1631.5	1780.1	1903.3	1960.6	1939.8	1832.2	1700.6
42.5°	1132.9	1204.0	1300.0	1421.0	1567.4	1717.6	1822.5	1853.2	1798.0	1673.8	1519.8
45°	1044.5	1109.7	1204.8	1326.6	1467.4	1608.1	1687.6	1672.0	1580.1	1432.9	1260.2
47.5°	952.3	1015.3	1100.9	1213.6	1357.7	1479.2	1533.0	1485.9	1355.2	1193.2	1052.7
50°	891.4	955.8	1034.7	1142.3	1273.8	1391.1	1425.7	1354.0	1208.7	1052.9	924.0
52.5°	831.4	886.6	963.8	1067.7	1193.5	1292.6	1311.0	1228.3	1078.4	938.8	824.3
55°	740.2	790.4	855.5	953.3	1062.1	1146.1	1136.3	1030.2	894.0	774.8	684.9
57.5°	652.0	689.8	750.0	841.6	937.1	993.5	957.8	867.2	740.4	642.7	566.8
60°	593.6	628.8	684.9	765.0	849.0	880.9	850.9	752.6	652.2	563.0	499.1
62.5°	538.4	569.4	617.6	692.0	759.9	778.7	746.7	660.8	570.4	494.2	441.3
65°	458.1	486.7	527.8	580.6	627.5	636.6	615.8	527.8	459.4	395.5	359.0
67.5°	385.2	404.0	436.0	481.6	506.5	511.9	471.6	416.3	356.0	316.8	289.3
70°	336.2	349.2	379.2	404.0	424.1	424.8	387.7	343.4	297.1	265.2	245.0
72.5°	288.8	301.3	324.0	340.9	356.4	351.4	317.4	282.4	245.0	220.9	205.9
75°	222.8	233.9	245.6	253.4	253.4	246.9	222.2	196.1	174.7	160.3	155.7
77.5°	162.0	171.1	175.0	173.8	171.5	161.4	145.7	128.7	120.9	114.1	110.7
80°	127.1	131.0	132.2	129.0	125.1	113.4	102.9	95.8	88.6	86.1	84.7
82.5°	94.3	97.6	94.3	95.1	86.5	76.9	71.2	68.7	65.7	64.7	63.3
85°	50.1	49.5	48.3	45.0	39.1	37.8	37.1	36.5	35.2	35.8	34.5
87.5°	18.2	17.2	15.5	15.5	15.8	15.1	16.0	16.3	16.7	16.4	17.7
90°	5.1	7.4	9.7	12.1	14.0	15.6	17.3	19.0	20.7	22.0	23.2
92.5°	12.0	12.1	12.3	12.3	13.3	14.9	16.6	18.3	20.0	21.2	22.4
95°	44.7	37.5	30.4	23.3	19.9	20.1	20.3	20.5	20.7	22.0	23.2
97.5°	114.3	118.8	123.2	127.6	118.2	94.8	71.5	48.2	24.9	25.0	25.1
100°	158.1	161.8	165.6	169.4	156.8	128.0	99.2	70.2	41.4	37.9	34.3
102.5°	206.8	209.5	212.3	215.0	214.5	210.8	207.0	203.2	199.4	161.1	122.8
105°	284.5	285.7	287.0	288.2	289.4	290.4	291.4	292.6	293.6	295.5	297.4
107.5°	357.4	358.1	358.6	359.3	360.3	361.7	363.2	364.6	366.0	366.9	367.9
110°	407.1	407.7	408.3	409.0	409.9	411.1	412.5	413.7	414.9	415.4	415.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	455.8	456.9	458.1	459.2	460.1	460.6	461.2	461.8	462.3	462.3	462.2
115°	529.4	530.1	530.7	531.3	531.5	531.3	531.1	530.8	530.7	531.1	531.5
117.5°	596.4	597.3	598.1	599.0	599.6	600.0	600.5	601.0	601.4	601.3	601.2
120°	641.6	642.4	643.3	644.1	644.4	644.2	644.0	643.8	643.6	644.0	644.4
122.5°	683.4	683.9	684.4	684.9	685.3	685.6	685.9	686.2	686.5	686.7	687.0
125°	744.1	745.0	745.8	746.7	746.9	746.5	746.0	745.6	745.2	745.8	746.5
127.5°	800.7	801.0	801.2	801.3	801.9	803.0	803.9	804.8	805.8	805.7	805.6
130°	837.6	837.8	838.0	838.2	838.7	839.3	839.9	840.6	841.2	841.4	841.6
132.5°	871.7	872.0	872.4	872.8	873.4	874.2	875.0	875.7	876.6	876.8	876.9
135°	921.9	921.7	921.4	921.2	921.5	922.4	923.2	924.1	924.9	925.3	925.8
137.5°	967.1	967.2	967.3	967.4	967.9	968.8	969.8	970.6	971.6	972.0	972.5
140°	996.8	997.3	997.7	998.1	998.5	998.9	999.4	999.8	1000.2	1000.8	1001.5
142.5°	1023.5	1024.3	1025.0	1025.8	1026.2	1026.5	1026.8	1027.0	1027.3	1027.7	1028.2
145°	1063.8	1064.5	1065.1	1065.7	1066.0	1066.0	1066.0	1066.0	1066.0	1066.3	1066.5
147.5°	1096.6	1097.8	1098.9	1100.1	1100.6	1100.3	1100.1	1099.9	1099.8	1099.9	1100.0
150°	1119.6	1120.4	1121.2	1122.1	1122.4	1122.2	1122.0	1121.8	1121.5	1121.5	1121.5
152.5°	1139.0	1139.6	1140.3	1140.9	1141.1	1140.8	1140.4	1140.0	1139.6	1140.0	1140.3
155°	1166.0	1166.2	1166.4	1166.6	1166.4	1165.8	1165.2	1164.5	1163.9	1164.7	1165.5
157.5°	1188.8	1188.6	1188.5	1188.5	1188.0	1187.3	1186.6	1185.9	1185.2	1186.3	1187.3
160°	1201.8	1201.3	1200.6	1200.0	1199.6	1199.4	1199.1	1198.9	1198.7	1200.0	1201.3
162.5°	1213.7	1213.0	1212.1	1211.4	1210.9	1210.6	1210.4	1210.2	1210.0	1211.3	1212.5
165°	1228.7	1227.7	1226.6	1225.6	1225.0	1225.0	1225.0	1225.0	1225.0	1226.7	1228.4
167.5°	1240.8	1239.6	1238.6	1237.5	1236.9	1236.7	1236.6	1236.5	1236.3	1238.2	1240.0
170°	1247.4	1246.0	1244.8	1243.6	1243.0	1243.2	1243.5	1243.7	1243.9	1245.6	1247.3
172.5°	1251.9	1250.6	1249.3	1248.1	1247.5	1247.7	1248.0	1248.2	1248.4	1250.1	1251.8
175°	1256.8	1255.5	1254.2	1253.0	1252.5	1252.6	1252.9	1253.1	1253.3	1255.2	1257.1
177.5°	1259.0	1257.9	1256.8	1255.6	1255.2	1255.5	1255.8	1256.1	1256.5	1257.8	1259.1
180°	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1696.5	1698.6	1700.2	1705.3	1705.8	1710.5	1705.8
5°	1836.8	1846.0	1860.3	1874.6	1875.9	1885.0	1868.8
7.5°	1994.2	2015.3	2028.5	2051.7	2060.9	2066.5	2057.2
10°	2102.6	2122.2	2156.7	2173.7	2190.7	2193.2	2185.4
12.5°	2207.4	2238.4	2265.7	2297.7	2297.0	2319.9	2311.6
15°	2347.0	2379.0	2416.7	2452.6	2465.6	2465.6	2476.1
17.5°	2446.6	2505.1	2544.2	2572.3	2603.1	2608.4	2604.8
20°	2513.9	2577.0	2618.8	2655.2	2676.1	2681.9	2681.9
22.5°	2563.8	2617.6	2658.3	2691.1	2708.4	2715.3	2713.2
25°	2598.5	2644.8	2669.6	2679.3	2683.9	2682.6	2670.2
27.5°	2551.1	2549.0	2533.4	2503.4	2480.9	2467.2	2451.6
30°	2460.4	2426.5	2387.4	2344.4	2289.1	2246.6	2233.6
32.5°	2325.3	2249.3	2183.0	2111.4	2051.8	2009.5	1991.8
35°	2064.3	1943.7	1845.3	1759.3	1696.8	1657.6	1644.6
37.5°	1754.4	1637.7	1515.9	1432.5	1380.5	1341.0	1326.3
40°	1557.3	1430.2	1324.0	1245.9	1192.4	1154.0	1153.3
42.5°	1377.4	1256.1	1156.2	1099.9	1042.3	1016.8	1016.7
45°	1127.8	1030.8	946.1	901.8	867.2	846.4	840.6
47.5°	933.9	853.6	797.1	761.9	733.7	720.4	711.8
50°	824.9	754.5	709.5	678.9	663.3	646.4	645.1
52.5°	734.2	677.4	642.3	617.5	597.7	587.5	587.8
55°	617.1	572.1	547.3	528.4	512.8	505.0	501.7
57.5°	519.8	486.1	468.1	450.7	444.1	438.0	436.3
60°	459.4	436.6	419.6	406.0	396.2	394.2	393.5
62.5°	409.3	385.5	373.7	363.2	356.0	353.0	351.9
65°	337.5	319.9	309.5	301.0	298.4	293.9	293.2
67.5°	272.1	261.6	254.7	248.7	245.2	245.0	245.0
70°	232.0	226.1	220.3	217.0	215.0	213.7	213.7
72.5°	197.6	193.2	188.4	186.7	186.3	185.0	184.5
75°	150.5	146.0	146.6	143.4	140.7	137.5	135.5
77.5°	106.7	103.5	102.8	102.5	100.2	99.8	100.9
80°	82.8	79.5	78.8	79.5	78.8	76.9	76.9
82.5°	63.0	60.2	59.6	59.2	58.5	59.2	58.2
85°	33.8	32.6	32.6	32.6	33.8	33.3	32.6
87.5°	16.9	16.6	17.3	16.9	17.0	16.5	17.2
90°	24.5	25.7	26.6	27.0	27.4	27.8	28.2
92.5°	23.8	25.0	25.6	25.7	25.8	25.9	26.0
95°	24.5	25.7	26.5	26.7	26.9	27.1	27.2
97.5°	25.3	25.4	25.5	25.7	25.9	26.1	26.4
100°	30.7	27.1	25.5	25.7	25.9	26.1	26.4
102.5°	84.5	46.1	27.0	27.0	27.1	27.1	27.1
105°	299.2	301.0	298.3	290.8	283.2	275.7	268.2
107.5°	368.8	369.7	370.5	371.4	372.1	373.0	373.7
110°	416.2	416.6	417.2	417.7	418.4	419.1	419.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	462.1	462.0	462.4	463.2	464.0	464.8	465.5
115°	532.0	532.3	532.5	532.5	532.5	532.5	532.5
117.5°	601.2	601.1	601.1	601.0	600.9	600.8	600.7
120°	644.8	645.3	645.3	644.8	644.4	644.0	643.6
122.5°	687.2	687.5	687.4	687.0	686.5	686.2	685.7
125°	747.1	747.7	748.1	748.4	748.6	748.8	748.9
127.5°	805.4	805.3	805.1	805.0	804.8	804.6	804.5
130°	841.8	842.0	842.2	842.2	842.2	842.2	842.2
132.5°	877.2	877.4	877.4	877.2	877.0	876.9	876.8
135°	926.1	926.6	927.0	927.5	927.8	928.2	928.7
137.5°	973.0	973.5	973.6	973.5	973.4	973.2	973.1
140°	1002.1	1002.7	1003.1	1003.3	1003.5	1003.7	1004.0
142.5°	1028.7	1029.2	1029.4	1029.4	1029.4	1029.5	1029.5
145°	1066.7	1066.9	1067.2	1067.6	1068.0	1068.5	1068.8
147.5°	1100.2	1100.4	1100.6	1100.8	1101.0	1101.3	1101.5
150°	1121.5	1121.5	1121.6	1121.9	1122.1	1122.3	1122.5
152.5°	1140.7	1140.9	1141.0	1140.9	1140.9	1140.7	1140.6
155°	1166.4	1167.2	1167.3	1166.8	1166.1	1165.5	1164.9
157.5°	1188.5	1189.5	1189.5	1188.5	1187.3	1186.3	1185.2
160°	1202.5	1203.7	1203.7	1202.5	1201.3	1200.0	1198.7
162.5°	1213.8	1215.0	1214.9	1213.5	1212.1	1210.7	1209.3
165°	1230.1	1231.7	1231.6	1229.7	1227.9	1226.0	1224.1
167.5°	1241.9	1243.7	1243.6	1241.5	1239.4	1237.3	1235.2
170°	1248.9	1250.6	1250.4	1248.3	1246.2	1244.1	1242.0
172.5°	1253.4	1255.1	1254.8	1252.5	1250.3	1248.0	1245.8
175°	1259.0	1260.8	1260.5	1258.0	1255.5	1253.0	1250.5
177.5°	1260.5	1261.9	1261.5	1259.5	1257.5	1255.5	1253.5
180°	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0	1258.0

(END OF REPORT)