

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: P333010-830

Luminaire Tested: **SA4XXRDIP-C1195D1205U830-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P333010-830
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: SA4XXRDIP-C1195D1205U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

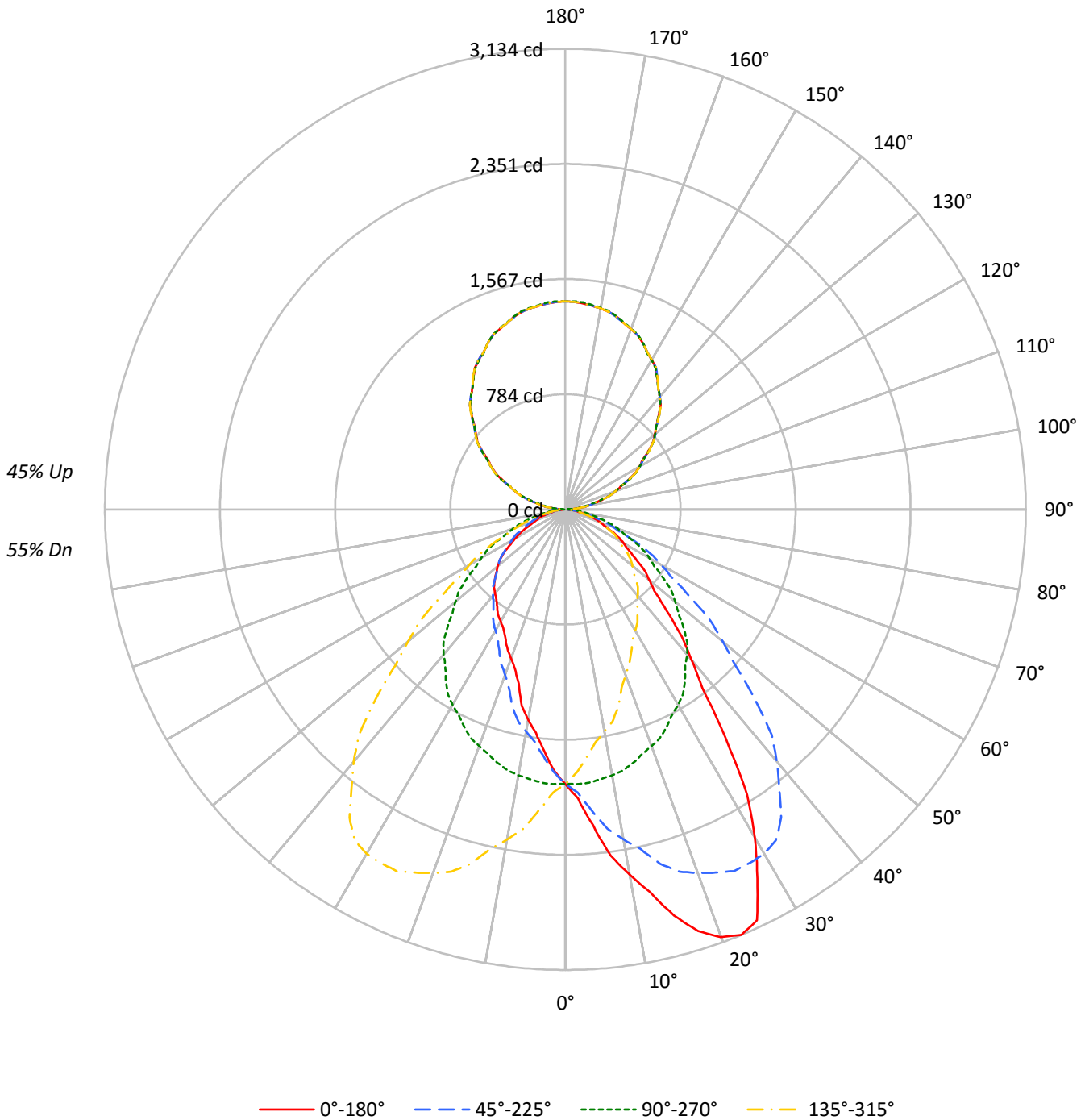
Lumens per Lamp: N/A
Luminaire Lumens: 8653.8 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.7
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	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	54	53	52	47
2	91	84	78	73	84	78	73	68	67	63	60	57	55	52	48	46	45	40
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	41	38	35
4	76	66	58	52	71	61	55	49	53	48	44	46	42	39	39	36	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	34	38	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	30	27	31	27	24	27	24	21	19
9	52	40	32	27	48	38	31	26	33	28	24	29	25	21	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15079	15079	15079	15079
5°	17490	15124	13367	15124
10°	20690	15058	11931	15058
15°	23901	14919	10252	14919
20°	26611	14728	9271	14728
25°	27470	14539	8607	14539
30°	24047	14311	8207	14311
35°	18719	13973	7965	13973
40°	14037	13585	7835	13585
45°	11082	12965	7767	12965
50°	9357	12248	7542	12248
55°	8156	11461	7139	11461
60°	7338	10643	6318	10643
65°	6470	9761	5435	9761
70°	5828	8847	4902	8847
75°	4885	7842	4177	7842
80°	4128	6681	3919	6681
85°	3483	5233	3483	5233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.1
10°-20°	545.9	6.3
20°-30°	853.8	9.9
30°-40°	949.2	11.0
40°-50°	842.2	9.7
50°-60°	656.2	7.6
60°-70°	429.6	5.0
70°-80°	211.3	2.4
80°-90°	56.4	0.7
90°-100°	93.4	1.1
100°-110°	276.7	3.2
110°-120°	469.6	5.4
120°-130°	619.1	7.2
130°-140°	695.3	8.0
140°-150°	683.3	7.9
150°-160°	574.7	6.6
160°-170°	382.4	4.4
170°-180°	133.9	1.5
0°-30°	1580.7	18.3
0°-40°	2529.9	29.2
0°-60°	4028.3	46.5
0°-90°	4725.6	54.6
90°-120°	839.6	9.7
90°-150°	2837.4	32.8
90°-180°	3928.0	45.4
0°-180°	8653.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1868	1868	1868	1868	1868	
5°	2158	1866	1650	1866	2158	218
15°	2860	1785	1227	1785	2860	813
25°	3084	1632	966	1632	3084	1368
35°	1899	1418	808	1418	1899	1191
45°	971	1136	680	1136	971	769
55°	580	814	507	814	580	527
65°	339	511	284	511	339	341
75°	157	251	134	251	157	172
85°	38	56	38	56	38	43
90°	33	3	33	3	33	18
95°	86	66	86	66	86	90
105°	267	255	267	255	267	282
115°	473	477	473	477	473	468
125°	690	695	690	695	690	615
135°	898	897	898	897	898	693
145°	1091	1090	1091	1090	1091	683
155°	1247	1248	1247	1248	1247	574
165°	1356	1359	1356	1359	1356	382
175°	1407	1414	1407	1414	1407	134
180°	1416	1416	1416	1416	1416	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1970.1	1975.6	1970.1	1969.5	1963.5	1961.7	1959.3	1951.4	1937.0	1928.6	1930.4
5°	2158.2	2177.1	2166.5	2165.0	2148.5	2131.9	2121.4	2097.3	2071.7	2054.5	2040.1
7.5°	2375.9	2386.7	2380.1	2369.6	2342.8	2327.6	2303.2	2271.4	2225.5	2190.5	2158.4
10°	2524.0	2533.0	2530.1	2510.5	2490.9	2451.0	2428.5	2384.1	2326.1	2280.2	2237.3
12.5°	2669.7	2679.4	2652.9	2653.7	2616.7	2585.3	2549.5	2493.6	2426.7	2367.5	2313.8
15°	2859.7	2847.6	2847.6	2832.5	2791.2	2747.5	2710.7	2651.9	2567.7	2496.9	2422.4
17.5°	3008.3	3012.6	3006.3	2970.9	2938.4	2893.2	2825.6	2757.1	2678.9	2583.9	2507.7
20°	3097.5	3097.5	3090.7	3066.6	3024.4	2976.3	2903.3	2828.8	2729.4	2633.8	2548.1
22.5°	3133.6	3135.9	3128.0	3108.1	3070.2	3023.2	2961.1	2885.4	2783.0	2675.4	2569.2
25°	3083.9	3098.2	3099.6	3094.5	3083.2	3054.5	3001.1	2923.6	2831.8	2715.2	2600.8
27.5°	2831.3	2849.4	2865.2	2891.2	2925.8	2943.9	2946.3	2906.9	2826.8	2714.5	2599.4
30°	2579.6	2594.7	2643.6	2707.6	2757.3	2802.5	2841.6	2852.1	2807.0	2706.1	2584.9
32.5°	2300.4	2320.8	2369.7	2438.5	2521.3	2597.7	2685.7	2730.5	2729.3	2668.8	2556.6
35°	1899.4	1914.5	1959.6	2031.8	2131.2	2244.9	2384.1	2492.4	2566.2	2560.9	2492.4
37.5°	1531.8	1548.9	1594.5	1654.4	1750.7	1891.4	2026.1	2175.4	2311.8	2388.4	2365.5
40°	1332.0	1332.8	1377.1	1438.9	1529.2	1651.8	1798.6	1964.1	2116.1	2240.3	2264.4
42.5°	1174.2	1174.4	1203.7	1270.3	1335.3	1450.8	1590.8	1755.2	1933.2	2076.5	2140.3
45°	970.7	977.5	1001.6	1041.5	1092.7	1190.5	1302.6	1455.4	1654.8	1824.9	1931.0
47.5°	822.1	832.0	847.3	879.9	920.7	985.8	1078.6	1215.8	1378.0	1565.1	1716.1
50°	745.0	746.5	766.1	784.1	819.5	871.5	952.7	1067.1	1216.1	1395.9	1563.8
52.5°	678.8	678.4	690.2	713.1	741.9	782.3	847.9	952.1	1084.2	1245.5	1418.7
55°	579.5	583.2	592.2	610.3	632.2	660.7	712.7	790.9	894.8	1032.5	1189.8
57.5°	503.9	505.9	512.9	520.6	540.6	561.4	600.4	654.7	742.3	855.1	1001.6
60°	454.5	455.2	457.5	468.8	484.7	504.2	530.6	576.5	650.2	753.3	869.2
62.5°	406.3	407.7	411.2	419.4	431.7	445.2	472.8	509.6	570.7	658.7	763.2
65°	338.7	339.4	344.7	347.7	357.4	369.5	389.8	414.6	456.8	530.6	609.5
67.5°	283.0	283.0	283.2	287.3	294.1	302.1	314.2	334.1	365.9	411.2	480.9
70°	246.9	246.9	248.4	250.6	254.4	261.1	267.9	283.0	306.3	343.2	396.6
72.5°	213.1	213.7	215.2	215.7	217.6	223.2	228.2	237.8	255.1	283.0	326.1
75°	156.6	158.8	162.6	165.6	169.3	168.5	173.8	179.8	185.1	201.7	226.5
77.5°	116.5	115.3	115.7	118.3	118.8	119.5	123.3	127.9	131.9	139.7	148.5
80°	88.8	88.8	91.0	91.8	91.0	91.8	95.6	97.8	99.3	102.4	110.7
82.5°	67.1	68.3	67.6	68.3	68.8	69.6	72.7	73.1	74.6	75.9	79.4
85°	37.6	38.4	39.1	37.6	37.6	37.6	39.1	39.9	41.4	40.6	42.1
87.5°	19.8	19.1	19.6	19.5	20.0	19.2	19.5	20.5	18.9	19.2	18.9
90°	32.9	32.3	31.9	31.4	30.9	30.0	28.5	27.1	25.5	24.1	22.1
92.5°	48.6	48.4	48.1	47.8	47.4	46.8	46.0	45.1	44.2	43.4	42.0
95°	86.5	86.5	86.5	86.5	86.5	86.1	85.4	84.6	84.0	83.2	81.5
97.5°	135.5	135.5	135.5	135.5	135.5	135.2	134.2	133.4	132.5	131.6	129.6
100°	169.8	169.8	169.8	169.8	169.8	169.5	169.0	168.5	168.1	167.6	165.3
102.5°	208.3	208.1	207.9	207.7	207.5	207.1	206.4	205.7	205.0	204.3	202.4
105°	267.2	266.5	265.7	265.0	264.3	263.5	262.8	262.1	261.4	260.6	259.7
107.5°	324.6	324.6	324.7	324.7	324.8	324.4	323.8	323.1	322.4	321.7	321.6
110°	365.7	365.0	364.3	363.5	362.8	362.7	363.2	363.6	364.2	364.7	364.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	407.8	407.6	407.5	407.4	407.2	407.2	407.3	407.4	407.5	407.6	408.0
115°	473.1	473.3	473.5	473.8	474.0	474.3	474.5	474.8	475.0	475.2	475.7
117.5°	535.3	535.7	536.2	536.7	537.2	537.8	538.7	539.5	540.4	541.2	541.5
120°	582.6	582.1	581.5	581.1	580.6	581.0	582.2	583.4	584.7	585.9	586.5
122.5°	622.0	622.8	623.8	624.6	625.5	626.3	627.2	628.0	628.9	629.6	630.0
125°	689.8	690.3	690.9	691.4	691.8	692.3	692.8	693.2	693.8	694.3	694.5
127.5°	752.7	753.1	753.5	753.9	754.3	754.7	755.3	755.7	756.2	756.7	757.1
130°	793.9	794.8	795.9	796.8	797.8	798.5	799.0	799.5	800.0	800.5	800.5
132.5°	837.7	838.1	838.5	838.9	839.2	839.7	840.2	840.7	841.1	841.7	841.9
135°	898.0	898.6	899.4	900.1	900.9	901.4	901.9	902.5	903.0	903.4	903.4
137.5°	961.2	961.1	960.9	960.8	960.6	960.9	961.5	962.1	962.8	963.4	963.0
140°	999.8	1000.0	1000.2	1000.5	1000.8	1001.0	1001.3	1001.5	1001.7	1001.9	1001.9
142.5°	1038.3	1038.4	1038.4	1038.5	1038.5	1038.6	1038.6	1038.7	1038.7	1038.8	1039.0
145°	1090.7	1091.4	1092.1	1092.9	1093.5	1094.1	1094.3	1094.6	1094.8	1095.0	1094.8
147.5°	1143.7	1143.9	1144.2	1144.4	1144.6	1144.8	1145.1	1145.3	1145.5	1145.7	1145.8
150°	1176.1	1176.3	1176.6	1176.8	1177.0	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1
152.5°	1205.9	1206.5	1207.1	1207.8	1208.4	1208.4	1207.9	1207.2	1206.6	1206.1	1205.9
155°	1247.3	1248.2	1249.2	1250.2	1251.1	1251.1	1250.2	1249.2	1248.2	1247.3	1247.5
157.5°	1284.3	1285.1	1285.9	1286.8	1287.6	1287.6	1286.9	1286.2	1285.4	1284.7	1284.8
160°	1305.3	1306.6	1307.7	1308.9	1310.1	1310.4	1309.7	1308.9	1308.2	1307.5	1307.7
162.5°	1327.2	1328.4	1329.6	1330.9	1332.1	1332.0	1330.7	1329.4	1328.0	1326.7	1327.0
165°	1355.7	1356.6	1357.6	1358.6	1359.5	1359.3	1357.8	1356.4	1354.9	1353.5	1354.0
167.5°	1376.0	1377.5	1379.0	1380.5	1382.1	1382.1	1380.6	1379.1	1377.7	1376.2	1376.2
170°	1387.4	1389.1	1390.8	1392.5	1394.2	1394.4	1392.9	1391.5	1390.0	1388.6	1388.3
172.5°	1397.0	1398.7	1400.4	1402.1	1403.9	1403.9	1402.2	1400.6	1398.9	1397.3	1397.2
175°	1407.1	1408.8	1410.5	1412.2	1413.9	1413.9	1412.2	1410.5	1408.8	1407.1	1407.4
177.5°	1412.4	1413.9	1415.5	1417.0	1418.6	1418.7	1417.4	1416.0	1414.7	1413.2	1413.2
180°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1924.4	1916.0	1911.8	1902.1	1890.6	1884.6	1879.2	1871.4	1861.1	1850.3	1842.5
5°	2022.0	2004.0	1981.4	1954.4	1930.2	1907.0	1886.6	1866.3	1843.0	1818.9	1794.8
7.5°	2122.3	2086.8	2048.4	2004.0	1960.8	1921.6	1885.4	1850.8	1811.7	1776.6	1744.6
10°	2192.2	2144.0	2090.6	2034.1	1977.6	1928.7	1880.6	1836.9	1788.8	1745.9	1709.8
12.5°	2248.7	2192.2	2127.9	2057.6	1989.7	1930.5	1875.2	1818.3	1763.5	1717.0	1668.9
15°	2342.6	2265.1	2178.6	2094.3	2006.3	1925.7	1851.2	1785.0	1722.6	1657.1	1611.2
17.5°	2407.3	2315.3	2210.1	2108.8	2004.8	1909.8	1823.8	1745.0	1672.9	1606.1	1551.4
20°	2445.7	2344.1	2227.5	2112.3	1995.7	1894.1	1801.6	1714.3	1639.7	1567.5	1511.1
22.5°	2467.4	2354.9	2227.5	2107.0	1986.1	1876.0	1774.4	1683.6	1602.4	1530.2	1467.7
25°	2474.4	2353.9	2223.7	2085.3	1952.9	1836.2	1730.8	1632.2	1541.9	1469.7	1403.4
27.5°	2464.7	2322.9	2189.6	2047.5	1910.8	1787.9	1677.3	1573.7	1483.3	1405.7	1337.8
30°	2450.2	2298.2	2155.2	2007.8	1869.3	1751.1	1634.5	1535.2	1441.1	1360.6	1292.1
32.5°	2418.9	2268.1	2114.3	1963.2	1823.0	1701.2	1590.5	1490.6	1398.4	1316.1	1243.3
35°	2356.9	2204.1	2037.1	1882.1	1744.4	1618.0	1514.1	1417.8	1329.7	1241.7	1164.9
37.5°	2275.2	2119.1	1952.9	1783.2	1645.3	1526.0	1430.7	1340.3	1254.3	1173.9	1088.9
40°	2198.2	2056.0	1884.3	1715.8	1574.3	1459.2	1371.1	1289.1	1202.6	1122.8	1037.7
42.5°	2104.9	1983.7	1810.3	1641.2	1501.5	1390.5	1308.5	1228.3	1149.6	1072.2	983.5
45°	1949.1	1857.3	1694.7	1532.2	1391.5	1281.6	1206.4	1135.6	1066.3	992.6	909.1
47.5°	1770.6	1708.4	1568.1	1401.7	1271.5	1172.6	1099.9	1042.1	983.5	909.8	836.5
50°	1646.5	1606.7	1471.2	1319.2	1195.0	1104.0	1029.4	975.2	926.3	855.6	790.1
52.5°	1514.1	1492.9	1378.5	1233.1	1113.1	1023.9	960.3	911.4	862.0	803.2	742.0
55°	1312.4	1323.7	1226.6	1101.0	988.1	912.9	854.9	814.3	772.1	722.5	675.0
57.5°	1106.3	1147.5	1082.3	971.9	866.2	796.6	753.0	718.8	683.4	642.2	601.7
60°	982.8	1017.4	980.5	883.4	790.9	726.2	685.6	659.2	623.9	586.3	555.3
62.5°	862.4	899.5	877.6	799.2	713.2	657.6	621.7	597.2	570.9	538.1	506.1
65°	711.1	735.2	724.7	670.5	609.5	562.1	529.0	511.0	486.9	462.8	434.2
67.5°	544.7	591.2	585.0	556.3	503.6	466.6	444.9	429.0	407.0	389.1	369.7
70°	447.8	490.7	489.9	466.6	438.0	403.3	388.3	374.8	355.2	337.9	322.1
72.5°	366.5	405.8	411.6	393.7	374.2	348.0	333.6	324.2	305.2	293.3	280.5
75°	256.7	285.2	292.8	292.8	283.7	270.1	257.4	251.4	237.8	227.2	219.7
77.5°	168.2	186.3	198.0	200.8	202.2	197.7	187.1	182.9	172.5	168.7	161.5
80°	118.9	130.9	144.5	149.0	152.8	151.3	146.8	143.7	133.9	130.2	127.1
82.5°	82.2	88.8	99.9	109.9	108.8	112.7	108.8	106.4	99.1	97.6	94.6
85°	42.9	43.6	45.1	51.9	55.7	57.2	58.0	56.5	54.2	54.2	48.9
87.5°	18.5	17.5	18.3	17.8	17.9	19.8	21.0	21.1	19.9	18.6	17.3
90°	20.2	18.3	16.3	13.9	11.3	8.7	5.9	3.3	5.9	8.7	11.3
92.5°	40.6	39.3	37.9	35.7	32.6	29.6	26.5	23.5	26.5	29.6	32.6
95°	79.8	78.1	76.4	74.5	72.3	70.1	67.9	65.7	67.9	70.1	72.3
97.5°	127.6	125.6	123.7	121.8	120.0	118.3	116.5	114.8	116.5	118.3	120.0
100°	163.2	161.0	158.8	157.2	156.2	155.2	154.3	153.4	154.3	155.2	156.2
102.5°	200.4	198.3	196.3	195.2	194.7	194.4	194.0	193.6	194.0	194.4	194.7
105°	258.6	257.7	256.7	256.1	255.9	255.6	255.4	255.1	255.4	255.6	255.9
107.5°	321.4	321.3	321.1	320.9	320.7	320.4	320.1	319.7	320.1	320.4	320.7
110°	365.1	365.4	365.6	365.5	365.0	364.5	364.0	363.5	364.0	364.5	365.0



TEST NUMBER: P333010-830

CATALOG NUMBER: SA4XXRDIP-C1195D1205U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	408.5	408.9	409.3	409.5	409.4	409.3	409.3	409.1	409.3	409.3	409.4
115°	476.3	476.7	477.2	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4
117.5°	541.9	542.2	542.5	542.6	542.4	542.2	542.1	541.9	542.1	542.2	542.4
120°	587.3	588.1	588.8	588.6	587.7	586.7	585.7	584.8	585.7	586.7	587.7
122.5°	630.4	630.7	631.0	631.0	630.6	630.2	629.8	629.4	629.8	630.2	630.6
125°	694.7	695.0	695.2	695.3	695.3	695.3	695.3	695.3	695.3	695.3	695.3
127.5°	757.4	757.8	758.3	758.1	757.3	756.6	755.9	755.2	755.9	756.6	757.3
130°	800.5	800.5	800.5	800.1	799.4	798.6	798.0	797.2	798.0	798.6	799.4
132.5°	842.1	842.3	842.4	842.3	841.7	841.2	840.7	840.1	840.7	841.2	841.7
135°	903.4	903.4	903.4	902.7	901.3	899.8	898.3	896.8	898.3	899.8	901.3
137.5°	962.6	962.2	961.9	961.3	960.6	960.0	959.3	958.6	959.3	960.0	960.6
140°	1001.9	1001.9	1001.9	1001.7	1001.3	1000.8	1000.2	999.8	1000.2	1000.8	1001.3
142.5°	1039.2	1039.3	1039.5	1039.4	1038.9	1038.4	1037.9	1037.5	1037.9	1038.4	1038.9
145°	1094.6	1094.3	1094.1	1093.4	1092.5	1091.6	1090.5	1089.6	1090.5	1091.6	1092.5
147.5°	1146.0	1146.2	1146.4	1145.9	1144.7	1143.6	1142.5	1141.2	1142.5	1143.6	1144.7
150°	1177.1	1177.1	1177.1	1176.7	1175.7	1174.8	1173.7	1172.8	1173.7	1174.8	1175.7
152.5°	1205.7	1205.5	1205.3	1204.9	1204.3	1203.7	1203.2	1202.6	1203.2	1203.7	1204.3
155°	1247.7	1248.0	1248.2	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3
157.5°	1284.8	1284.9	1284.9	1285.2	1285.6	1286.0	1286.5	1286.9	1286.5	1286.0	1285.6
160°	1308.0	1308.2	1308.4	1308.7	1308.9	1309.2	1309.5	1309.7	1309.5	1309.2	1308.9
162.5°	1327.3	1327.5	1327.8	1328.1	1328.8	1329.5	1330.0	1330.7	1330.0	1329.5	1328.8
165°	1354.4	1354.9	1355.4	1356.0	1356.8	1357.4	1358.2	1359.0	1358.2	1357.4	1356.8
167.5°	1376.1	1376.1	1376.0	1376.6	1377.5	1378.6	1379.6	1380.6	1379.6	1378.6	1377.5
170°	1388.0	1387.8	1387.5	1388.0	1389.2	1390.4	1391.7	1392.9	1391.7	1390.4	1389.2
172.5°	1397.2	1397.1	1397.0	1397.6	1398.5	1399.6	1400.6	1401.7	1400.6	1399.6	1398.5
175°	1407.6	1407.9	1408.1	1408.8	1410.0	1411.3	1412.5	1413.7	1412.5	1411.3	1410.0
177.5°	1413.2	1413.2	1413.2	1413.7	1414.8	1415.7	1416.6	1417.7	1416.6	1415.7	1414.8
180°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9



TEST NUMBER: P333010-830
 CATALOG NUMBER: SA4XXRDIP-C1195D1205U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1834.1	1828.1	1820.2	1811.2	1800.4	1790.7	1786.5	1790.2	1792.0	1787.2	1786.5
5°	1778.2	1759.4	1744.4	1721.8	1703.7	1688.7	1678.2	1673.7	1675.2	1663.1	1660.1
7.5°	1715.5	1693.2	1668.5	1641.7	1616.7	1594.6	1583.0	1576.7	1564.0	1558.5	1549.4
10°	1675.2	1645.0	1621.0	1589.3	1560.8	1534.5	1521.6	1511.1	1498.3	1492.2	1479.5
12.5°	1633.6	1598.6	1572.2	1539.4	1510.1	1478.5	1466.2	1446.7	1426.6	1414.0	1397.6
15°	1575.1	1533.0	1500.5	1461.4	1426.8	1390.7	1358.3	1322.2	1308.6	1280.1	1263.5
17.5°	1506.6	1463.9	1423.8	1371.3	1317.9	1273.0	1238.5	1203.9	1183.2	1164.9	1156.5
20°	1461.4	1422.3	1366.6	1305.6	1246.2	1196.6	1168.7	1146.1	1123.5	1110.8	1101.7
22.5°	1418.7	1368.7	1304.0	1238.2	1178.7	1139.9	1116.3	1093.2	1074.8	1062.6	1050.6
25°	1347.1	1281.6	1213.1	1137.8	1097.2	1063.4	1037.7	1018.9	1007.7	991.8	985.8
27.5°	1273.5	1194.1	1118.6	1068.0	1025.7	994.7	972.4	958.3	944.0	933.9	926.0
30°	1216.8	1136.3	1068.6	1020.4	977.5	952.0	933.9	917.4	906.1	897.8	891.7
32.5°	1160.8	1080.3	1023.4	971.7	937.8	912.9	893.5	881.2	872.3	861.7	858.0
35°	1079.9	1008.4	958.8	912.1	877.4	854.9	839.8	827.1	819.5	816.5	814.3
37.5°	1002.1	943.5	890.1	851.9	821.0	803.2	785.5	779.2	774.0	768.6	771.1
40°	952.7	897.8	850.4	809.7	784.9	765.3	754.8	747.2	742.7	742.7	742.7
42.5°	909.9	856.2	810.0	773.6	748.8	732.3	720.5	714.2	712.7	712.1	715.7
45°	843.6	793.9	747.2	717.2	696.1	679.6	672.8	667.5	667.5	670.5	671.3
47.5°	777.8	731.3	693.8	660.2	640.8	630.5	624.6	621.9	622.2	625.2	628.7
50°	737.4	691.5	654.7	624.6	606.5	596.7	591.4	590.0	591.4	591.4	596.7
52.5°	693.5	652.4	616.1	590.9	570.4	561.3	558.4	556.3	557.1	559.6	561.8
55°	629.1	592.2	557.6	533.6	518.5	512.5	505.7	506.4	504.9	506.4	506.4
57.5°	564.6	531.4	499.3	480.1	466.8	458.2	450.7	452.9	450.6	450.3	449.1
60°	523.0	486.9	461.3	444.0	429.0	421.4	414.6	416.1	413.9	412.4	409.3
62.5°	477.9	447.8	423.4	406.7	394.6	385.9	379.1	377.6	372.4	367.2	360.6
65°	412.4	387.6	365.7	350.0	338.7	331.9	326.6	322.1	310.8	298.8	292.8
67.5°	348.7	330.8	310.5	297.1	287.9	279.1	269.0	261.3	250.7	244.1	240.3
70°	307.7	290.5	273.1	260.3	250.6	242.3	231.0	225.7	218.2	215.2	211.5
72.5°	268.6	252.5	236.5	224.9	214.4	208.0	199.2	193.9	190.6	189.4	185.6
75°	209.2	196.4	184.4	173.8	165.6	161.1	157.3	153.5	152.0	145.2	141.5
77.5°	152.6	144.2	136.7	129.1	123.3	120.3	113.0	108.7	106.1	102.9	102.2
80°	118.9	112.9	105.4	100.9	92.6	89.5	86.5	85.8	85.0	84.3	83.5
82.5°	89.4	83.4	75.9	73.1	70.9	69.1	67.3	66.5	65.8	66.3	66.1
85°	45.1	42.1	42.1	41.4	40.6	39.9	39.1	39.1	38.4	39.1	38.4
87.5°	17.8	17.7	18.1	17.2	18.3	18.7	18.4	18.7	19.5	18.7	18.9
90°	13.9	16.3	18.3	20.2	22.1	24.1	25.5	27.1	28.5	30.0	30.9
92.5°	35.7	37.9	39.3	40.6	42.0	43.4	44.2	45.1	46.0	46.8	47.4
95°	74.5	76.4	78.1	79.8	81.5	83.2	84.0	84.6	85.4	86.1	86.5
97.5°	121.8	123.7	125.6	127.6	129.6	131.6	132.5	133.4	134.2	135.2	135.5
100°	157.2	158.8	161.0	163.2	165.3	167.6	168.1	168.5	169.0	169.5	169.8
102.5°	195.2	196.3	198.3	200.4	202.4	204.3	205.0	205.7	206.4	207.1	207.5
105°	256.1	256.7	257.7	258.6	259.7	260.6	261.4	262.1	262.8	263.5	264.3
107.5°	320.9	321.1	321.3	321.4	321.6	321.7	322.4	323.1	323.8	324.4	324.8
110°	365.5	365.6	365.4	365.1	364.9	364.7	364.2	363.6	363.2	362.7	362.8



TEST NUMBER: P333010-830

CATALOG NUMBER: SA4XXRDIP-C1195D1205U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	409.5	409.3	408.9	408.5	408.0	407.6	407.5	407.4	407.3	407.2	407.2
115°	477.4	477.2	476.7	476.3	475.7	475.2	475.0	474.8	474.5	474.3	474.0
117.5°	542.6	542.5	542.2	541.9	541.5	541.2	540.4	539.5	538.7	537.8	537.2
120°	588.6	588.8	588.1	587.3	586.5	585.9	584.7	583.4	582.2	581.0	580.6
122.5°	631.0	631.0	630.7	630.4	630.0	629.6	628.9	628.0	627.2	626.3	625.5
125°	695.3	695.2	695.0	694.7	694.5	694.3	693.8	693.2	692.8	692.3	691.8
127.5°	758.1	758.3	757.8	757.4	757.1	756.7	756.2	755.7	755.3	754.7	754.3
130°	800.1	800.5	800.5	800.5	800.5	800.5	800.0	799.5	799.0	798.5	797.8
132.5°	842.3	842.4	842.3	842.1	841.9	841.7	841.1	840.7	840.2	839.7	839.2
135°	902.7	903.4	903.4	903.4	903.4	903.4	903.0	902.5	901.9	901.4	900.9
137.5°	961.3	961.9	962.2	962.6	963.0	963.4	962.8	962.1	961.5	960.9	960.6
140°	1001.7	1001.9	1001.9	1001.9	1001.9	1001.9	1001.7	1001.5	1001.3	1001.0	1000.8
142.5°	1039.4	1039.5	1039.3	1039.2	1039.0	1038.8	1038.7	1038.7	1038.6	1038.6	1038.5
145°	1093.4	1094.1	1094.3	1094.6	1094.8	1095.0	1094.8	1094.6	1094.3	1094.1	1093.5
147.5°	1145.9	1146.4	1146.2	1146.0	1145.8	1145.7	1145.5	1145.3	1145.1	1144.8	1144.6
150°	1176.7	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.0
152.5°	1204.9	1205.3	1205.5	1205.7	1205.9	1206.1	1206.6	1207.2	1207.9	1208.4	1208.4
155°	1248.3	1248.2	1248.0	1247.7	1247.5	1247.3	1248.2	1249.2	1250.2	1251.1	1251.1
157.5°	1285.2	1284.9	1284.9	1284.8	1284.8	1284.7	1285.4	1286.2	1286.9	1287.6	1287.6
160°	1308.7	1308.4	1308.2	1308.0	1307.7	1307.5	1308.2	1308.9	1309.7	1310.4	1310.1
162.5°	1328.1	1327.8	1327.5	1327.3	1327.0	1326.7	1328.0	1329.4	1330.7	1332.0	1332.1
165°	1356.0	1355.4	1354.9	1354.4	1354.0	1353.5	1354.9	1356.4	1357.8	1359.3	1359.5
167.5°	1376.6	1376.0	1376.1	1376.1	1376.2	1376.2	1377.7	1379.1	1380.6	1382.1	1382.1
170°	1388.0	1387.5	1387.8	1388.0	1388.3	1388.6	1390.0	1391.5	1392.9	1394.4	1394.2
172.5°	1397.6	1397.0	1397.1	1397.2	1397.2	1397.3	1398.9	1400.6	1402.2	1403.9	1403.9
175°	1408.8	1408.1	1407.9	1407.6	1407.4	1407.1	1408.8	1410.5	1412.2	1413.9	1413.9
177.5°	1413.7	1413.2	1413.2	1413.2	1413.2	1413.2	1414.7	1416.0	1417.4	1418.7	1418.6
180°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9



TEST NUMBER: P333010-830

CATALOG NUMBER: SA4XXRDIP-C1195D1205U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1782.9	1784.1	1779.9	1778.7	1779.9	1784.1	1782.9	1786.5	1787.2	1792.0	1790.2
5°	1654.1	1652.6	1648.8	1649.5	1648.8	1652.6	1654.1	1660.1	1663.1	1675.2	1673.7
7.5°	1543.9	1538.0	1539.6	1533.7	1539.6	1538.0	1543.9	1549.4	1558.5	1564.0	1576.7
10°	1476.5	1468.2	1461.4	1455.4	1461.4	1468.2	1476.5	1479.5	1492.2	1498.3	1511.1
12.5°	1384.4	1377.2	1368.1	1369.9	1368.1	1377.2	1384.4	1397.6	1414.0	1426.6	1446.7
15°	1253.7	1242.5	1224.4	1226.6	1224.4	1242.5	1253.7	1263.5	1280.1	1308.6	1322.2
17.5°	1143.1	1143.2	1135.0	1136.9	1135.0	1143.2	1143.1	1156.5	1164.9	1183.2	1203.9
20°	1085.9	1080.6	1081.4	1079.1	1081.4	1080.6	1085.9	1101.7	1110.8	1123.5	1146.1
22.5°	1046.1	1039.7	1034.4	1029.7	1034.4	1039.7	1046.1	1050.6	1062.6	1074.8	1093.2
25°	979.0	974.5	967.8	966.3	967.8	974.5	979.0	985.8	991.8	1007.7	1018.9
27.5°	920.0	919.2	916.4	912.9	916.4	919.2	920.0	926.0	933.9	944.0	958.3
30°	885.7	884.2	882.7	880.4	882.7	884.2	885.7	891.7	897.8	906.1	917.4
32.5°	855.1	854.1	852.6	852.8	852.6	854.1	855.1	858.0	861.7	872.3	881.2
35°	811.2	810.5	809.0	808.2	809.0	810.5	811.2	814.3	816.5	819.5	827.1
37.5°	770.3	772.2	771.4	771.2	771.4	772.2	770.3	771.1	768.6	774.0	779.2
40°	742.0	742.7	744.2	743.5	744.2	742.7	742.0	742.7	742.7	742.7	747.2
42.5°	718.5	718.7	720.8	718.2	720.8	718.7	718.5	715.7	712.1	712.7	714.2
45°	676.6	681.1	680.3	680.3	680.3	681.1	676.6	671.3	670.5	667.5	667.5
47.5°	630.7	634.5	635.6	635.5	635.6	634.5	630.7	628.7	625.2	622.2	621.9
50°	600.5	599.0	601.2	600.5	601.2	599.0	600.5	596.7	591.4	591.4	590.0
52.5°	563.8	564.1	563.9	563.2	563.9	564.1	563.8	561.8	559.6	557.1	556.3
55°	507.2	507.9	506.4	507.2	506.4	507.9	507.2	506.4	506.4	504.9	506.4
57.5°	445.8	442.1	443.7	441.9	443.7	442.1	445.8	449.1	450.3	450.6	452.9
60°	401.9	395.9	394.4	391.3	394.4	395.9	401.9	409.3	412.4	413.9	416.1
62.5°	352.5	348.3	343.2	345.5	343.2	348.3	352.5	360.6	367.2	372.4	377.6
65°	286.7	283.7	281.4	284.5	281.4	283.7	286.7	292.8	298.8	310.8	322.1
67.5°	237.3	235.7	235.7	234.2	235.7	235.7	237.3	240.3	244.1	250.7	261.3
70°	211.5	209.2	209.2	207.7	209.2	209.2	211.5	211.5	215.2	218.2	225.7
72.5°	184.9	182.8	183.3	182.4	183.3	182.8	184.9	185.6	189.4	190.6	193.9
75°	137.0	133.2	133.2	133.9	133.2	133.2	137.0	141.5	145.2	152.0	153.5
77.5°	102.2	101.4	102.5	101.1	102.5	101.4	102.2	102.2	102.9	106.1	108.7
80°	83.5	82.8	82.0	84.3	82.0	82.8	83.5	83.5	84.3	85.0	85.8
82.5°	64.8	64.8	64.6	67.4	64.6	64.8	64.8	66.1	66.3	65.8	66.5
85°	39.1	37.6	39.1	37.6	39.1	37.6	39.1	38.4	39.1	38.4	39.1
87.5°	20.2	19.6	19.1	19.8	19.1	19.6	20.2	18.9	18.7	19.5	18.7
90°	31.4	31.9	32.3	32.9	32.3	31.9	31.4	30.9	30.0	28.5	27.1
92.5°	47.8	48.1	48.4	48.6	48.4	48.1	47.8	47.4	46.8	46.0	45.1
95°	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.1	85.4	84.6
97.5°	135.5	135.5	135.5	135.5	135.5	135.5	135.5	135.5	135.2	134.2	133.4
100°	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.5	169.0	168.5
102.5°	207.7	207.9	208.1	208.3	208.1	207.9	207.7	207.5	207.1	206.4	205.7
105°	265.0	265.7	266.5	267.2	266.5	265.7	265.0	264.3	263.5	262.8	262.1
107.5°	324.7	324.7	324.6	324.6	324.6	324.7	324.7	324.8	324.4	323.8	323.1
110°	363.5	364.3	365.0	365.7	365.0	364.3	363.5	362.8	362.7	363.2	363.6



TEST NUMBER: P333010-830

CATALOG NUMBER: SA4XXRDIP-C1195D1205U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	407.4	407.5	407.6	407.8	407.6	407.5	407.4	407.2	407.2	407.3	407.4
115°	473.8	473.5	473.3	473.1	473.3	473.5	473.8	474.0	474.3	474.5	474.8
117.5°	536.7	536.2	535.7	535.3	535.7	536.2	536.7	537.2	537.8	538.7	539.5
120°	581.1	581.5	582.1	582.6	582.1	581.5	581.1	580.6	581.0	582.2	583.4
122.5°	624.6	623.8	622.8	622.0	622.8	623.8	624.6	625.5	626.3	627.2	628.0
125°	691.4	690.9	690.3	689.8	690.3	690.9	691.4	691.8	692.3	692.8	693.2
127.5°	753.9	753.5	753.1	752.7	753.1	753.5	753.9	754.3	754.7	755.3	755.7
130°	796.8	795.9	794.8	793.9	794.8	795.9	796.8	797.8	798.5	799.0	799.5
132.5°	838.9	838.5	838.1	837.7	838.1	838.5	838.9	839.2	839.7	840.2	840.7
135°	900.1	899.4	898.6	898.0	898.6	899.4	900.1	900.9	901.4	901.9	902.5
137.5°	960.8	960.9	961.1	961.2	961.1	960.9	960.8	960.6	960.9	961.5	962.1
140°	1000.5	1000.2	1000.0	999.8	1000.0	1000.2	1000.5	1000.8	1001.0	1001.3	1001.5
142.5°	1038.5	1038.4	1038.4	1038.3	1038.4	1038.4	1038.5	1038.5	1038.6	1038.6	1038.7
145°	1092.9	1092.1	1091.4	1090.7	1091.4	1092.1	1092.9	1093.5	1094.1	1094.3	1094.6
147.5°	1144.4	1144.2	1143.9	1143.7	1143.9	1144.2	1144.4	1144.6	1144.8	1145.1	1145.3
150°	1176.8	1176.6	1176.3	1176.1	1176.3	1176.6	1176.8	1177.0	1177.1	1177.1	1177.1
152.5°	1207.8	1207.1	1206.5	1205.9	1206.5	1207.1	1207.8	1208.4	1208.4	1207.9	1207.2
155°	1250.2	1249.2	1248.2	1247.3	1248.2	1249.2	1250.2	1251.1	1251.1	1250.2	1249.2
157.5°	1286.8	1285.9	1285.1	1284.3	1285.1	1285.9	1286.8	1287.6	1287.6	1286.9	1286.2
160°	1308.9	1307.7	1306.6	1305.3	1306.6	1307.7	1308.9	1310.1	1310.4	1309.7	1308.9
162.5°	1330.9	1329.6	1328.4	1327.2	1328.4	1329.6	1330.9	1332.1	1332.0	1330.7	1329.4
165°	1358.6	1357.6	1356.6	1355.7	1356.6	1357.6	1358.6	1359.5	1359.3	1357.8	1356.4
167.5°	1380.5	1379.0	1377.5	1376.0	1377.5	1379.0	1380.5	1382.1	1382.1	1380.6	1379.1
170°	1392.5	1390.8	1389.1	1387.4	1389.1	1390.8	1392.5	1394.2	1394.4	1392.9	1391.5
172.5°	1402.1	1400.4	1398.7	1397.0	1398.7	1400.4	1402.1	1403.9	1403.9	1402.2	1400.6
175°	1412.2	1410.5	1408.8	1407.1	1408.8	1410.5	1412.2	1413.9	1413.9	1412.2	1410.5
177.5°	1417.0	1415.5	1413.9	1412.4	1413.9	1415.5	1417.0	1418.6	1418.7	1417.4	1416.0
180°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9



TEST NUMBER: P333010-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1786.5	1790.7	1800.4	1811.2	1820.2	1828.1	1834.1	1842.5	1850.3	1861.1	1871.4
5°	1678.2	1688.7	1703.7	1721.8	1744.4	1759.4	1778.2	1794.8	1818.9	1843.0	1866.3
7.5°	1583.0	1594.6	1616.7	1641.7	1668.5	1693.2	1715.5	1744.6	1776.6	1811.7	1850.8
10°	1521.6	1534.5	1560.8	1589.3	1621.0	1645.0	1675.2	1709.8	1745.9	1788.8	1836.9
12.5°	1466.2	1478.5	1510.1	1539.4	1572.2	1598.6	1633.6	1668.9	1717.0	1763.5	1818.3
15°	1358.3	1390.7	1426.8	1461.4	1500.5	1533.0	1575.1	1611.2	1657.1	1722.6	1785.0
17.5°	1238.5	1273.0	1317.9	1371.3	1423.8	1463.9	1506.6	1551.4	1606.1	1672.9	1745.0
20°	1168.7	1196.6	1246.2	1305.6	1366.6	1422.3	1461.4	1511.1	1567.5	1639.7	1714.3
22.5°	1116.3	1139.9	1178.7	1238.2	1304.0	1368.7	1418.7	1467.7	1530.2	1602.4	1683.6
25°	1037.7	1063.4	1097.2	1137.8	1213.1	1281.6	1347.1	1403.4	1469.7	1541.9	1632.2
27.5°	972.4	994.7	1025.7	1068.0	1118.6	1194.1	1273.5	1337.8	1405.7	1483.3	1573.7
30°	933.9	952.0	977.5	1020.4	1068.6	1136.3	1216.8	1292.1	1360.6	1441.1	1535.2
32.5°	893.5	912.9	937.8	971.7	1023.4	1080.3	1160.8	1243.3	1316.1	1398.4	1490.6
35°	839.8	854.9	877.4	912.1	958.8	1008.4	1079.9	1164.9	1241.7	1329.7	1417.8
37.5°	785.5	803.2	821.0	851.9	890.1	943.5	1002.1	1088.9	1173.9	1254.3	1340.3
40°	754.8	765.3	784.9	809.7	850.4	897.8	952.7	1037.7	1122.8	1202.6	1289.1
42.5°	720.5	732.3	748.8	773.6	810.0	856.2	909.9	983.5	1072.2	1149.6	1228.3
45°	672.8	679.6	696.1	717.2	747.2	793.9	843.6	909.1	992.6	1066.3	1135.6
47.5°	624.6	630.5	640.8	660.2	693.8	731.3	777.8	836.5	909.8	983.5	1042.1
50°	591.4	596.7	606.5	624.6	654.7	691.5	737.4	790.1	855.6	926.3	975.2
52.5°	558.4	561.3	570.4	590.9	616.1	652.4	693.5	742.0	803.2	862.0	911.4
55°	505.7	512.5	518.5	533.6	557.6	592.2	629.1	675.0	722.5	772.1	814.3
57.5°	450.7	458.2	466.8	480.1	499.3	531.4	564.6	601.7	642.2	683.4	718.8
60°	414.6	421.4	429.0	444.0	461.3	486.9	523.0	555.3	586.3	623.9	659.2
62.5°	379.1	385.9	394.6	406.7	423.4	447.8	477.9	506.1	538.1	570.9	597.2
65°	326.6	331.9	338.7	350.0	365.7	387.6	412.4	434.2	462.8	486.9	511.0
67.5°	269.0	279.1	287.9	297.1	310.5	330.8	348.7	369.7	389.1	407.0	429.0
70°	231.0	242.3	250.6	260.3	273.1	290.5	307.7	322.1	337.9	355.2	374.8
72.5°	199.2	208.0	214.4	224.9	236.5	252.5	268.6	280.5	293.3	305.2	324.2
75°	157.3	161.1	165.6	173.8	184.4	196.4	209.2	219.7	227.2	237.8	251.4
77.5°	113.0	120.3	123.3	129.1	136.7	144.2	152.6	161.5	168.7	172.5	182.9
80°	86.5	89.5	92.6	100.9	105.4	112.9	118.9	127.1	130.2	133.9	143.7
82.5°	67.3	69.1	70.9	73.1	75.9	83.4	89.4	94.6	97.6	99.1	106.4
85°	39.1	39.9	40.6	41.4	42.1	42.1	45.1	48.9	54.2	54.2	56.5
87.5°	18.4	18.7	18.3	17.2	18.1	17.7	17.8	17.3	18.6	19.9	21.1
90°	25.5	24.1	22.1	20.2	18.3	16.3	13.9	11.3	8.7	5.9	3.3
92.5°	44.2	43.4	42.0	40.6	39.3	37.9	35.7	32.6	29.6	26.5	23.5
95°	84.0	83.2	81.5	79.8	78.1	76.4	74.5	72.3	70.1	67.9	65.7
97.5°	132.5	131.6	129.6	127.6	125.6	123.7	121.8	120.0	118.3	116.5	114.8
100°	168.1	167.6	165.3	163.2	161.0	158.8	157.2	156.2	155.2	154.3	153.4
102.5°	205.0	204.3	202.4	200.4	198.3	196.3	195.2	194.7	194.4	194.0	193.6
105°	261.4	260.6	259.7	258.6	257.7	256.7	256.1	255.9	255.6	255.4	255.1
107.5°	322.4	321.7	321.6	321.4	321.3	321.1	320.9	320.7	320.4	320.1	319.7
110°	364.2	364.7	364.9	365.1	365.4	365.6	365.5	365.0	364.5	364.0	363.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	407.5	407.6	408.0	408.5	408.9	409.3	409.5	409.4	409.3	409.3	409.1
115°	475.0	475.2	475.7	476.3	476.7	477.2	477.4	477.4	477.4	477.4	477.4
117.5°	540.4	541.2	541.5	541.9	542.2	542.5	542.6	542.4	542.2	542.1	541.9
120°	584.7	585.9	586.5	587.3	588.1	588.8	588.6	587.7	586.7	585.7	584.8
122.5°	628.9	629.6	630.0	630.4	630.7	631.0	631.0	630.6	630.2	629.8	629.4
125°	693.8	694.3	694.5	694.7	695.0	695.2	695.3	695.3	695.3	695.3	695.3
127.5°	756.2	756.7	757.1	757.4	757.8	758.3	758.1	757.3	756.6	755.9	755.2
130°	800.0	800.5	800.5	800.5	800.5	800.5	800.1	799.4	798.6	798.0	797.2
132.5°	841.1	841.7	841.9	842.1	842.3	842.4	842.3	841.7	841.2	840.7	840.1
135°	903.0	903.4	903.4	903.4	903.4	903.4	902.7	901.3	899.8	898.3	896.8
137.5°	962.8	963.4	963.0	962.6	962.2	961.9	961.3	960.6	960.0	959.3	958.6
140°	1001.7	1001.9	1001.9	1001.9	1001.9	1001.9	1001.7	1001.3	1000.8	1000.2	999.8
142.5°	1038.7	1038.8	1039.0	1039.2	1039.3	1039.5	1039.4	1038.9	1038.4	1037.9	1037.5
145°	1094.8	1095.0	1094.8	1094.6	1094.3	1094.1	1093.4	1092.5	1091.6	1090.5	1089.6
147.5°	1145.5	1145.7	1145.8	1146.0	1146.2	1146.4	1145.9	1144.7	1143.6	1142.5	1141.2
150°	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1176.7	1175.7	1174.8	1173.7	1172.8
152.5°	1206.6	1206.1	1205.9	1205.7	1205.5	1205.3	1204.9	1204.3	1203.7	1203.2	1202.6
155°	1248.2	1247.3	1247.5	1247.7	1248.0	1248.2	1248.3	1248.3	1248.3	1248.3	1248.3
157.5°	1285.4	1284.7	1284.8	1284.8	1284.9	1284.9	1285.2	1285.6	1286.0	1286.5	1286.9
160°	1308.2	1307.5	1307.7	1308.0	1308.2	1308.4	1308.7	1308.9	1309.2	1309.5	1309.7
162.5°	1328.0	1326.7	1327.0	1327.3	1327.5	1327.8	1328.1	1328.8	1329.5	1330.0	1330.7
165°	1354.9	1353.5	1354.0	1354.4	1354.9	1355.4	1356.0	1356.8	1357.4	1358.2	1359.0
167.5°	1377.7	1376.2	1376.2	1376.1	1376.1	1376.0	1376.6	1377.5	1378.6	1379.6	1380.6
170°	1390.0	1388.6	1388.3	1388.0	1387.8	1387.5	1388.0	1389.2	1390.4	1391.7	1392.9
172.5°	1398.9	1397.3	1397.2	1397.2	1397.1	1397.0	1397.6	1398.5	1399.6	1400.6	1401.7
175°	1408.8	1407.1	1407.4	1407.6	1407.9	1408.1	1408.8	1410.0	1411.3	1412.5	1413.7
177.5°	1414.7	1413.2	1413.2	1413.2	1413.2	1413.2	1413.7	1414.8	1415.7	1416.6	1417.7
180°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9



TEST NUMBER: P333010-830

CATALOG NUMBER: SA4XXRDIP-C1195D1205U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1879.2	1884.6	1890.6	1902.1	1911.8	1916.0	1924.4	1930.4	1928.6	1937.0	1951.4
5°	1886.6	1907.0	1930.2	1954.4	1981.4	2004.0	2022.0	2040.1	2054.5	2071.7	2097.3
7.5°	1885.4	1921.6	1960.8	2004.0	2048.4	2086.8	2122.3	2158.4	2190.5	2225.5	2271.4
10°	1880.6	1928.7	1977.6	2034.1	2090.6	2144.0	2192.2	2237.3	2280.2	2326.1	2384.1
12.5°	1875.2	1930.5	1989.7	2057.6	2127.9	2192.2	2248.7	2313.8	2367.5	2426.7	2493.6
15°	1851.2	1925.7	2006.3	2094.3	2178.6	2265.1	2342.6	2422.4	2496.9	2567.7	2651.9
17.5°	1823.8	1909.8	2004.8	2108.8	2210.1	2315.3	2407.3	2507.7	2583.9	2678.9	2757.1
20°	1801.6	1894.1	1995.7	2112.3	2227.5	2344.1	2445.7	2548.1	2633.8	2729.4	2828.8
22.5°	1774.4	1876.0	1986.1	2107.0	2227.5	2354.9	2467.4	2569.2	2675.4	2783.0	2885.4
25°	1730.8	1836.2	1952.9	2085.3	2223.7	2353.9	2474.4	2600.8	2715.2	2831.8	2923.6
27.5°	1677.3	1787.9	1910.8	2047.5	2189.6	2322.9	2464.7	2599.4	2714.5	2826.8	2906.9
30°	1634.5	1751.1	1869.3	2007.8	2155.2	2298.2	2450.2	2584.9	2706.1	2807.0	2852.1
32.5°	1590.5	1701.2	1823.0	1963.2	2114.3	2268.1	2418.9	2556.6	2668.8	2729.3	2730.5
35°	1514.1	1618.0	1744.4	1882.1	2037.1	2204.1	2356.9	2492.4	2560.9	2566.2	2492.4
37.5°	1430.7	1526.0	1645.3	1783.2	1952.9	2119.1	2275.2	2365.5	2388.4	2311.8	2175.4
40°	1371.1	1459.2	1574.3	1715.8	1884.3	2056.0	2198.2	2264.4	2240.3	2116.1	1964.1
42.5°	1308.5	1390.5	1501.5	1641.2	1810.3	1983.7	2104.9	2140.3	2076.5	1933.2	1755.2
45°	1206.4	1281.6	1391.5	1532.2	1694.7	1857.3	1949.1	1931.0	1824.9	1654.8	1455.4
47.5°	1099.9	1172.6	1271.5	1401.7	1568.1	1708.4	1770.6	1716.1	1565.1	1378.0	1215.8
50°	1029.4	1104.0	1195.0	1319.2	1471.2	1606.7	1646.5	1563.8	1395.9	1216.1	1067.1
52.5°	960.3	1023.9	1113.1	1233.1	1378.5	1492.9	1514.1	1418.7	1245.5	1084.2	952.1
55°	854.9	912.9	988.1	1101.0	1226.6	1323.7	1312.4	1189.8	1032.5	894.8	790.9
57.5°	753.0	796.6	866.2	971.9	1082.3	1147.5	1106.3	1001.6	855.1	742.3	654.7
60°	685.6	726.2	790.9	883.4	980.5	1017.4	982.8	869.2	753.3	650.2	576.5
62.5°	621.7	657.6	713.2	799.2	877.6	899.5	862.4	763.2	658.7	570.7	509.6
65°	529.0	562.1	609.5	670.5	724.7	735.2	711.1	609.5	530.6	456.8	414.6
67.5°	444.9	466.6	503.6	556.3	585.0	591.2	544.7	480.9	411.2	365.9	334.1
70°	388.3	403.3	438.0	466.6	489.9	490.7	447.8	396.6	343.2	306.3	283.0
72.5°	333.6	348.0	374.2	393.7	411.6	405.8	366.5	326.1	283.0	255.1	237.8
75°	257.4	270.1	283.7	292.8	292.8	285.2	256.7	226.5	201.7	185.1	179.8
77.5°	187.1	197.7	202.2	200.8	198.0	186.3	168.2	148.5	139.7	131.9	127.9
80°	146.8	151.3	152.8	149.0	144.5	130.9	118.9	110.7	102.4	99.3	97.8
82.5°	108.8	112.7	108.8	109.9	99.9	88.8	82.2	79.4	75.9	74.6	73.1
85°	58.0	57.2	55.7	51.9	45.1	43.6	42.9	42.1	40.6	41.4	39.9
87.5°	21.0	19.8	17.9	17.8	18.3	17.5	18.5	18.9	19.2	18.9	20.5
90°	5.9	8.7	11.3	13.9	16.3	18.3	20.2	22.1	24.1	25.5	27.1
92.5°	26.5	29.6	32.6	35.7	37.9	39.3	40.6	42.0	43.4	44.2	45.1
95°	67.9	70.1	72.3	74.5	76.4	78.1	79.8	81.5	83.2	84.0	84.6
97.5°	116.5	118.3	120.0	121.8	123.7	125.6	127.6	129.6	131.6	132.5	133.4
100°	154.3	155.2	156.2	157.2	158.8	161.0	163.2	165.3	167.6	168.1	168.5
102.5°	194.0	194.4	194.7	195.2	196.3	198.3	200.4	202.4	204.3	205.0	205.7
105°	255.4	255.6	255.9	256.1	256.7	257.7	258.6	259.7	260.6	261.4	262.1
107.5°	320.1	320.4	320.7	320.9	321.1	321.3	321.4	321.6	321.7	322.4	323.1
110°	364.0	364.5	365.0	365.5	365.6	365.4	365.1	364.9	364.7	364.2	363.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	409.3	409.3	409.4	409.5	409.3	408.9	408.5	408.0	407.6	407.5	407.4
115°	477.4	477.4	477.4	477.4	477.2	476.7	476.3	475.7	475.2	475.0	474.8
117.5°	542.1	542.2	542.4	542.6	542.5	542.2	541.9	541.5	541.2	540.4	539.5
120°	585.7	586.7	587.7	588.6	588.8	588.1	587.3	586.5	585.9	584.7	583.4
122.5°	629.8	630.2	630.6	631.0	631.0	630.7	630.4	630.0	629.6	628.9	628.0
125°	695.3	695.3	695.3	695.3	695.2	695.0	694.7	694.5	694.3	693.8	693.2
127.5°	755.9	756.6	757.3	758.1	758.3	757.8	757.4	757.1	756.7	756.2	755.7
130°	798.0	798.6	799.4	800.1	800.5	800.5	800.5	800.5	800.5	800.0	799.5
132.5°	840.7	841.2	841.7	842.3	842.4	842.3	842.1	841.9	841.7	841.1	840.7
135°	898.3	899.8	901.3	902.7	903.4	903.4	903.4	903.4	903.4	903.0	902.5
137.5°	959.3	960.0	960.6	961.3	961.9	962.2	962.6	963.0	963.4	962.8	962.1
140°	1000.2	1000.8	1001.3	1001.7	1001.9	1001.9	1001.9	1001.9	1001.9	1001.7	1001.5
142.5°	1037.9	1038.4	1038.9	1039.4	1039.5	1039.3	1039.2	1039.0	1038.8	1038.7	1038.7
145°	1090.5	1091.6	1092.5	1093.4	1094.1	1094.3	1094.6	1094.8	1095.0	1094.8	1094.6
147.5°	1142.5	1143.6	1144.7	1145.9	1146.4	1146.2	1146.0	1145.8	1145.7	1145.5	1145.3
150°	1173.7	1174.8	1175.7	1176.7	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1
152.5°	1203.2	1203.7	1204.3	1204.9	1205.3	1205.5	1205.7	1205.9	1206.1	1206.6	1207.2
155°	1248.3	1248.3	1248.3	1248.3	1248.2	1248.0	1247.7	1247.5	1247.3	1248.2	1249.2
157.5°	1286.5	1286.0	1285.6	1285.2	1284.9	1284.9	1284.8	1284.8	1284.7	1285.4	1286.2
160°	1309.5	1309.2	1308.9	1308.7	1308.4	1308.2	1308.0	1307.7	1307.5	1308.2	1308.9
162.5°	1330.0	1329.5	1328.8	1328.1	1327.8	1327.5	1327.3	1327.0	1326.7	1328.0	1329.4
165°	1358.2	1357.4	1356.8	1356.0	1355.4	1354.9	1354.4	1354.0	1353.5	1354.9	1356.4
167.5°	1379.6	1378.6	1377.5	1376.6	1376.0	1376.1	1376.1	1376.2	1376.2	1377.7	1379.1
170°	1391.7	1390.4	1389.2	1388.0	1387.5	1387.8	1388.0	1388.3	1388.6	1390.0	1391.5
172.5°	1400.6	1399.6	1398.5	1397.6	1397.0	1397.1	1397.2	1397.2	1397.3	1398.9	1400.6
175°	1412.5	1411.3	1410.0	1408.8	1408.1	1407.9	1407.6	1407.4	1407.1	1408.8	1410.5
177.5°	1416.6	1415.7	1414.8	1413.7	1413.2	1413.2	1413.2	1413.2	1413.2	1414.7	1416.0
180°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1959.3	1961.7	1963.5	1969.5	1970.1	1975.6	1970.1
5°	2121.4	2131.9	2148.5	2165.0	2166.5	2177.1	2158.2
7.5°	2303.2	2327.6	2342.8	2369.6	2380.1	2386.7	2375.9
10°	2428.5	2451.0	2490.9	2510.5	2530.1	2533.0	2524.0
12.5°	2549.5	2585.3	2616.7	2653.7	2652.9	2679.4	2669.7
15°	2710.7	2747.5	2791.2	2832.5	2847.6	2847.6	2859.7
17.5°	2825.6	2893.2	2938.4	2970.9	3006.3	3012.6	3008.3
20°	2903.3	2976.3	3024.4	3066.6	3090.7	3097.5	3097.5
22.5°	2961.1	3023.2	3070.2	3108.1	3128.0	3135.9	3133.6
25°	3001.1	3054.5	3083.2	3094.5	3099.6	3098.2	3083.9
27.5°	2946.3	2943.9	2925.8	2891.2	2865.2	2849.4	2831.3
30°	2841.6	2802.5	2757.3	2707.6	2643.6	2594.7	2579.6
32.5°	2685.7	2597.7	2521.3	2438.5	2369.7	2320.8	2300.4
35°	2384.1	2244.9	2131.2	2031.8	1959.6	1914.5	1899.4
37.5°	2026.1	1891.4	1750.7	1654.4	1594.5	1548.9	1531.8
40°	1798.6	1651.8	1529.2	1438.9	1377.1	1332.8	1332.0
42.5°	1590.8	1450.8	1335.3	1270.3	1203.7	1174.4	1174.2
45°	1302.6	1190.5	1092.7	1041.5	1001.6	977.5	970.7
47.5°	1078.6	985.8	920.7	879.9	847.3	832.0	822.1
50°	952.7	871.5	819.5	784.1	766.1	746.5	745.0
52.5°	847.9	782.3	741.9	713.1	690.2	678.4	678.8
55°	712.7	660.7	632.2	610.3	592.2	583.2	579.5
57.5°	600.4	561.4	540.6	520.6	512.9	505.9	503.9
60°	530.6	504.2	484.7	468.8	457.5	455.2	454.5
62.5°	472.8	445.2	431.7	419.4	411.2	407.7	406.3
65°	389.8	369.5	357.4	347.7	344.7	339.4	338.7
67.5°	314.2	302.1	294.1	287.3	283.2	283.0	283.0
70°	267.9	261.1	254.4	250.6	248.4	246.9	246.9
72.5°	228.2	223.2	217.6	215.7	215.2	213.7	213.1
75°	173.8	168.5	169.3	165.6	162.6	158.8	156.6
77.5°	123.3	119.5	118.8	118.3	115.7	115.3	116.5
80°	95.6	91.8	91.0	91.8	91.0	88.8	88.8
82.5°	72.7	69.6	68.8	68.3	67.6	68.3	67.1
85°	39.1	37.6	37.6	37.6	39.1	38.4	37.6
87.5°	19.5	19.2	20.0	19.5	19.6	19.1	19.8
90°	28.5	30.0	30.9	31.4	31.9	32.3	32.9
92.5°	46.0	46.8	47.4	47.8	48.1	48.4	48.6
95°	85.4	86.1	86.5	86.5	86.5	86.5	86.5
97.5°	134.2	135.2	135.5	135.5	135.5	135.5	135.5
100°	169.0	169.5	169.8	169.8	169.8	169.8	169.8
102.5°	206.4	207.1	207.5	207.7	207.9	208.1	208.3
105°	262.8	263.5	264.3	265.0	265.7	266.5	267.2
107.5°	323.8	324.4	324.8	324.7	324.7	324.6	324.6
110°	363.2	362.7	362.8	363.5	364.3	365.0	365.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	407.3	407.2	407.2	407.4	407.5	407.6	407.8
115°	474.5	474.3	474.0	473.8	473.5	473.3	473.1
117.5°	538.7	537.8	537.2	536.7	536.2	535.7	535.3
120°	582.2	581.0	580.6	581.1	581.5	582.1	582.6
122.5°	627.2	626.3	625.5	624.6	623.8	622.8	622.0
125°	692.8	692.3	691.8	691.4	690.9	690.3	689.8
127.5°	755.3	754.7	754.3	753.9	753.5	753.1	752.7
130°	799.0	798.5	797.8	796.8	795.9	794.8	793.9
132.5°	840.2	839.7	839.2	838.9	838.5	838.1	837.7
135°	901.9	901.4	900.9	900.1	899.4	898.6	898.0
137.5°	961.5	960.9	960.6	960.8	960.9	961.1	961.2
140°	1001.3	1001.0	1000.8	1000.5	1000.2	1000.0	999.8
142.5°	1038.6	1038.6	1038.5	1038.5	1038.4	1038.4	1038.3
145°	1094.3	1094.1	1093.5	1092.9	1092.1	1091.4	1090.7
147.5°	1145.1	1144.8	1144.6	1144.4	1144.2	1143.9	1143.7
150°	1177.1	1177.1	1177.0	1176.8	1176.6	1176.3	1176.1
152.5°	1207.9	1208.4	1208.4	1207.8	1207.1	1206.5	1205.9
155°	1250.2	1251.1	1251.1	1250.2	1249.2	1248.2	1247.3
157.5°	1286.9	1287.6	1287.6	1286.8	1285.9	1285.1	1284.3
160°	1309.7	1310.4	1310.1	1308.9	1307.7	1306.6	1305.3
162.5°	1330.7	1332.0	1332.1	1330.9	1329.6	1328.4	1327.2
165°	1357.8	1359.3	1359.5	1358.6	1357.6	1356.6	1355.7
167.5°	1380.6	1382.1	1382.1	1380.5	1379.0	1377.5	1376.0
170°	1392.9	1394.4	1394.2	1392.5	1390.8	1389.1	1387.4
172.5°	1402.2	1403.9	1403.9	1402.1	1400.4	1398.7	1397.0
175°	1412.2	1413.9	1413.9	1412.2	1410.5	1408.8	1407.1
177.5°	1417.4	1418.7	1418.6	1417.0	1415.5	1413.9	1412.4
180°	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9	1415.9

(END OF REPORT)