

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: P332980

Luminaire Tested: **SA4XXRDIP-C1020D1205U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332980
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-C1020D1205U835-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

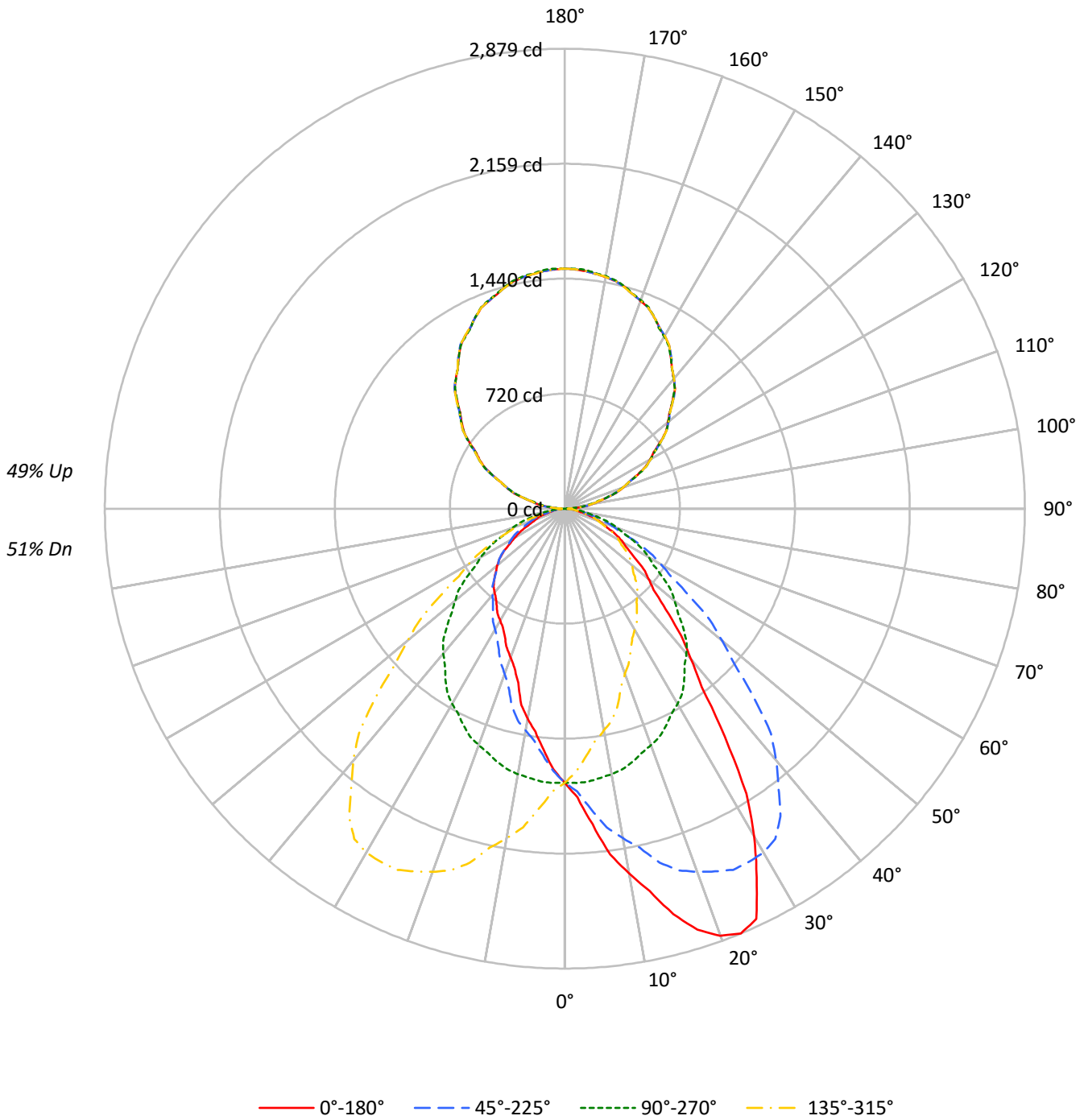
Lumens per Lamp: N/A
Luminaire Lumens: 8509.4 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	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	67	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	38	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	32	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	24	22	19
8	55	43	35	30	51	40	33	29	35	30	26	30	26	23	26	22	20	17
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	27	23	30	24	21	26	22	19	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13852	13852	13852	13852
5°	16067	13893	12280	13893
10°	19007	13833	10960	13833
15°	21956	13705	9417	13705
20°	24445	13529	8516	13529
25°	25235	13356	7906	13356
30°	22091	13147	7539	13147
35°	17196	12835	7318	12835
40°	12895	12480	7198	12480
45°	10182	11910	7134	11910
50°	8596	11252	6929	11252
55°	7492	10528	6557	10528
60°	6741	9778	5804	9778
65°	5943	8967	4991	8967
70°	5351	8127	4504	8127
75°	4485	7202	3840	7202
80°	3794	6137	3598	6137
85°	3205	4798	3205	4798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	2.0
10°-20°	501.5	5.9
20°-30°	784.4	9.2
30°-40°	872.0	10.2
40°-50°	773.6	9.1
50°-60°	602.8	7.1
60°-70°	394.7	4.6
70°-80°	194.1	2.3
80°-90°	52.4	0.6
90°-100°	99.1	1.2
100°-110°	293.5	3.4
110°-120°	498.2	5.9
120°-130°	656.9	7.7
130°-140°	737.7	8.7
140°-150°	724.9	8.5
150°-160°	609.7	7.2
160°-170°	405.7	4.8
170°-180°	142.1	1.7
0°-30°	1452.1	17.1
0°-40°	2324.1	27.3
0°-60°	3700.5	43.5
0°-90°	4341.7	51.0
90°-120°	890.8	10.5
90°-150°	3010.3	35.4
90°-180°	4168.0	49.0
0°-180°	8509.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1716	1716	1716	1716	1716	
5°	1983	1714	1515	1714	1983	201
15°	2627	1640	1127	1640	2627	747
25°	2833	1499	888	1499	2833	1257
35°	1745	1302	742	1302	1745	1094
45°	892	1043	625	1043	892	706
55°	532	748	466	748	532	484
65°	311	469	261	469	311	313
75°	144	231	123	231	144	158
85°	35	52	35	52	35	40
90°	35	4	35	4	35	19
95°	92	70	92	70	92	96
105°	284	271	284	271	284	299
115°	502	506	502	506	502	496
125°	732	738	732	738	732	653
135°	953	952	953	952	953	736
145°	1157	1156	1157	1156	1157	724
155°	1323	1324	1323	1324	1323	609
165°	1438	1442	1438	1442	1438	405
175°	1493	1500	1493	1500	1493	142
180°	1502	1502	1502	1502	1502	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1809.8	1814.8	1809.8	1809.3	1803.8	1802.1	1799.9	1792.7	1779.4	1771.7	1773.3
5°	1982.7	1999.9	1990.3	1988.9	1973.7	1958.5	1948.8	1926.7	1903.2	1887.3	1874.1
7.5°	2182.6	2192.5	2186.5	2176.8	2152.2	2138.2	2115.8	2086.6	2044.5	2012.2	1982.8
10°	2318.6	2326.9	2324.2	2306.2	2288.2	2251.6	2230.8	2190.1	2136.8	2094.7	2055.2
12.5°	2452.5	2461.3	2437.0	2437.8	2403.8	2374.9	2342.0	2290.7	2229.2	2174.8	2125.5
15°	2627.0	2615.9	2615.9	2602.1	2564.0	2524.0	2490.1	2436.2	2358.7	2293.7	2225.3
17.5°	2763.6	2767.4	2761.8	2729.1	2699.3	2657.8	2595.7	2532.8	2460.9	2373.7	2303.7
20°	2845.4	2845.4	2839.2	2817.1	2778.4	2734.1	2667.1	2598.6	2507.4	2419.6	2340.8
22.5°	2878.6	2880.8	2873.5	2855.2	2820.4	2777.2	2720.1	2650.6	2556.6	2457.7	2360.1
25°	2833.0	2846.1	2847.5	2842.6	2832.3	2806.0	2756.9	2685.7	2601.4	2494.2	2389.1
27.5°	2601.0	2617.6	2632.1	2656.0	2687.8	2704.4	2706.6	2670.4	2596.8	2493.7	2387.9
30°	2369.8	2383.6	2428.6	2487.3	2532.9	2574.4	2610.4	2620.0	2578.6	2485.9	2374.6
32.5°	2113.2	2132.0	2176.9	2240.1	2316.1	2386.4	2467.1	2508.3	2507.2	2451.6	2348.6
35°	1744.9	1758.7	1800.2	1866.5	1957.8	2062.2	2190.1	2289.6	2357.3	2352.5	2289.6
37.5°	1407.2	1422.8	1464.7	1519.8	1608.3	1737.5	1861.3	1998.4	2123.7	2194.1	2173.0
40°	1223.6	1224.3	1265.1	1321.8	1404.7	1517.4	1652.2	1804.3	1943.9	2058.0	2080.1
42.5°	1078.7	1078.8	1105.8	1166.9	1226.7	1332.7	1461.4	1612.4	1775.8	1907.6	1966.2
45°	891.8	898.0	920.1	956.8	1003.8	1093.6	1196.6	1337.0	1520.2	1676.4	1773.9
47.5°	755.2	764.3	778.4	808.3	845.7	905.6	990.8	1116.9	1265.9	1437.8	1576.5
50°	684.4	685.8	703.7	720.3	752.8	800.5	875.2	980.3	1117.1	1282.4	1436.5
52.5°	623.6	623.3	634.1	655.1	681.5	718.7	779.0	874.6	996.0	1144.1	1303.2
55°	532.3	535.8	544.1	560.6	580.7	607.0	654.7	726.6	822.0	948.5	1093.0
57.5°	462.9	464.7	471.2	478.2	496.6	515.7	551.5	601.4	681.9	785.5	920.1
60°	417.5	418.2	420.3	430.7	445.2	463.2	487.4	529.5	597.3	692.0	798.5
62.5°	373.3	374.5	377.7	385.3	396.5	409.0	434.3	468.2	524.3	605.2	701.1
65°	311.1	311.8	316.6	319.4	328.4	339.4	358.1	380.9	419.6	487.4	560.0
67.5°	259.9	259.9	260.2	263.9	270.2	277.5	288.7	306.9	336.1	377.7	441.7
70°	226.7	226.7	228.1	230.2	233.7	239.9	246.1	259.9	281.4	315.2	364.3
72.5°	195.8	196.3	197.7	198.1	199.9	205.0	209.6	218.5	234.4	259.9	299.6
75°	143.8	145.9	149.3	152.1	155.5	154.9	159.7	165.2	170.1	185.3	208.1
77.5°	107.0	105.9	106.3	108.7	109.1	109.8	113.2	117.5	121.1	128.3	136.5
80°	81.6	81.6	83.6	84.3	83.6	84.3	87.8	89.9	91.3	94.0	101.6
82.5°	61.7	62.8	62.1	62.8	63.2	63.9	66.8	67.2	68.6	69.7	72.9
85°	34.6	35.3	35.9	34.6	34.6	34.6	35.9	36.6	38.0	37.3	38.7
87.5°	19.1	18.5	18.9	18.8	19.3	18.5	18.8	19.6	18.1	18.4	18.0
90°	34.9	34.3	33.8	33.3	32.8	31.8	30.2	28.7	27.1	25.6	23.5
92.5°	51.6	51.3	51.0	50.7	50.3	49.7	48.8	47.9	46.9	46.0	44.6
95°	91.8	91.8	91.8	91.8	91.8	91.4	90.6	89.8	89.1	88.3	86.5
97.5°	143.8	143.8	143.8	143.8	143.8	143.4	142.4	141.5	140.6	139.6	137.5
100°	180.1	180.1	180.1	180.1	180.1	179.8	179.3	178.8	178.3	177.8	175.4
102.5°	221.0	220.8	220.6	220.4	220.1	219.7	219.0	218.2	217.5	216.8	214.7
105°	283.5	282.7	281.9	281.2	280.4	279.6	278.8	278.1	277.3	276.5	275.5
107.5°	344.4	344.4	344.5	344.5	344.6	344.2	343.5	342.8	342.1	341.3	341.2
110°	388.0	387.3	386.5	385.7	384.9	384.8	385.3	385.8	386.4	386.9	387.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	432.7	432.5	432.3	432.2	432.0	432.0	432.1	432.2	432.3	432.4	432.9
115°	501.9	502.2	502.4	502.7	502.9	503.2	503.4	503.7	504.0	504.2	504.7
117.5°	567.9	568.4	568.9	569.4	570.0	570.6	571.5	572.4	573.3	574.2	574.5
120°	618.1	617.6	617.0	616.5	616.0	616.4	617.7	619.0	620.3	621.6	622.3
122.5°	659.9	660.8	661.8	662.7	663.6	664.5	665.4	666.3	667.2	668.0	668.4
125°	731.9	732.4	733.0	733.5	734.0	734.5	735.0	735.5	736.1	736.6	736.8
127.5°	798.6	799.0	799.4	799.9	800.3	800.7	801.3	801.8	802.3	802.8	803.2
130°	842.3	843.3	844.4	845.4	846.4	847.2	847.7	848.2	848.8	849.3	849.3
132.5°	888.8	889.2	889.6	890.0	890.4	890.9	891.4	891.9	892.4	893.0	893.2
135°	952.7	953.4	954.2	955.0	955.8	956.4	956.9	957.5	958.0	958.5	958.5
137.5°	1019.8	1019.7	1019.5	1019.4	1019.2	1019.5	1020.1	1020.8	1021.5	1022.1	1021.7
140°	1060.7	1061.0	1061.2	1061.5	1061.8	1062.0	1062.3	1062.5	1062.8	1063.0	1063.0
142.5°	1101.6	1101.7	1101.7	1101.8	1101.8	1101.9	1101.9	1102.0	1102.0	1102.1	1102.3
145°	1157.2	1157.9	1158.7	1159.5	1160.2	1160.8	1161.0	1161.3	1161.5	1161.8	1161.5
147.5°	1213.4	1213.6	1213.9	1214.2	1214.4	1214.6	1214.9	1215.1	1215.3	1215.5	1215.7
150°	1247.8	1248.0	1248.3	1248.5	1248.8	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
152.5°	1279.4	1280.0	1280.7	1281.4	1282.1	1282.1	1281.5	1280.8	1280.2	1279.6	1279.4
155°	1323.3	1324.3	1325.4	1326.4	1327.4	1327.4	1326.4	1325.4	1324.3	1323.3	1323.5
157.5°	1362.6	1363.4	1364.3	1365.2	1366.1	1366.1	1365.3	1364.6	1363.8	1363.0	1363.1
160°	1384.9	1386.2	1387.4	1388.7	1390.0	1390.3	1389.5	1388.7	1388.0	1387.2	1387.4
162.5°	1408.1	1409.4	1410.7	1412.0	1413.3	1413.2	1411.8	1410.4	1409.0	1407.6	1407.9
165°	1438.3	1439.3	1440.4	1441.4	1442.4	1442.2	1440.6	1439.1	1437.5	1436.0	1436.5
167.5°	1459.9	1461.5	1463.1	1464.7	1466.3	1466.3	1464.8	1463.2	1461.7	1460.1	1460.1
170°	1472.0	1473.8	1475.6	1477.4	1479.2	1479.4	1477.8	1476.3	1474.7	1473.2	1472.9
172.5°	1482.2	1484.0	1485.8	1487.6	1489.5	1489.5	1487.7	1486.0	1484.2	1482.5	1482.4
175°	1492.9	1494.7	1496.5	1498.3	1500.1	1500.1	1498.3	1496.5	1494.7	1492.9	1493.2
177.5°	1498.5	1500.1	1501.8	1503.4	1505.1	1505.2	1503.8	1502.3	1500.9	1499.4	1499.4
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1767.8	1760.1	1756.2	1747.3	1736.8	1731.3	1726.3	1719.1	1709.7	1699.8	1692.6
5°	1857.5	1840.9	1820.2	1795.3	1773.2	1751.8	1733.1	1714.4	1693.0	1670.9	1648.8
7.5°	1949.6	1917.0	1881.7	1840.9	1801.3	1765.2	1732.0	1700.2	1664.2	1632.0	1602.7
10°	2013.8	1969.5	1920.4	1868.6	1816.7	1771.8	1727.6	1687.5	1643.2	1603.8	1570.6
12.5°	2065.8	2013.8	1954.7	1890.2	1827.8	1773.5	1722.6	1670.3	1620.0	1577.3	1533.0
15°	2152.0	2080.8	2001.3	1923.9	1843.0	1769.0	1700.6	1639.8	1582.4	1522.3	1480.1
17.5°	2211.3	2126.9	2030.2	1937.2	1841.6	1754.4	1675.4	1603.0	1536.8	1475.4	1425.2
20°	2246.7	2153.4	2046.3	1940.5	1833.3	1740.0	1655.0	1574.8	1506.4	1440.0	1388.1
22.5°	2266.6	2163.4	2046.3	1935.5	1824.5	1723.4	1630.1	1546.6	1472.1	1405.7	1348.3
25°	2273.0	2162.4	2042.8	1915.6	1793.9	1686.8	1590.0	1499.4	1416.5	1350.1	1289.3
27.5°	2264.2	2133.9	2011.4	1880.9	1755.4	1642.4	1540.8	1445.7	1362.6	1291.4	1229.0
30°	2250.9	2111.2	1979.9	1844.4	1717.2	1608.7	1501.5	1410.3	1323.8	1249.9	1187.0
32.5°	2222.1	2083.6	1942.3	1803.5	1674.6	1562.8	1461.1	1369.3	1284.6	1209.0	1142.2
35°	2165.2	2024.8	1871.4	1729.0	1602.4	1486.3	1390.9	1302.4	1221.5	1140.7	1070.1
37.5°	2090.1	1946.7	1794.1	1638.1	1511.5	1401.8	1314.3	1231.2	1152.3	1078.4	1000.3
40°	2019.3	1888.6	1731.0	1576.2	1446.2	1340.4	1259.6	1184.2	1104.7	1031.4	953.3
42.5°	1933.6	1822.3	1663.0	1507.6	1379.3	1277.4	1202.0	1128.3	1056.0	985.0	903.5
45°	1790.5	1706.1	1556.8	1407.5	1278.2	1177.3	1108.2	1043.2	979.6	911.8	835.1
47.5°	1626.5	1569.4	1440.5	1287.6	1168.0	1077.2	1010.4	957.3	903.5	835.8	768.5
50°	1512.6	1475.9	1351.5	1211.9	1097.8	1014.1	945.7	895.9	851.0	786.0	725.9
52.5°	1390.9	1371.4	1266.3	1132.8	1022.6	940.6	882.1	837.3	791.8	737.9	681.6
55°	1205.6	1216.0	1126.8	1011.4	907.7	838.6	785.3	748.0	709.3	663.7	620.1
57.5°	1016.2	1054.1	994.2	892.9	795.7	731.8	691.7	660.3	627.8	590.0	552.8
60°	902.8	934.6	900.8	811.6	726.6	667.1	629.8	605.6	573.1	538.5	510.2
62.5°	792.2	826.2	806.2	734.2	655.2	604.1	571.2	548.6	524.4	494.3	464.8
65°	653.3	675.4	665.7	616.0	560.0	516.4	486.0	469.4	447.3	425.2	398.9
67.5°	500.4	543.1	537.4	511.0	462.6	428.6	408.7	394.0	373.9	357.4	339.6
70°	411.3	450.7	450.0	428.6	402.3	370.5	356.7	344.3	326.3	310.4	295.9
72.5°	336.7	372.8	378.1	361.7	343.7	319.7	306.4	297.8	280.4	269.5	257.7
75°	235.7	262.0	268.9	268.9	260.6	248.2	236.4	230.9	218.5	208.8	201.9
77.5°	154.6	171.2	182.0	184.4	185.7	181.5	171.9	168.0	158.4	155.0	148.4
80°	109.2	120.3	132.7	136.9	140.3	139.0	134.8	132.0	123.1	119.6	116.8
82.5°	75.5	81.6	91.8	100.9	100.0	103.6	100.0	97.8	91.0	89.7	87.0
85°	39.4	40.1	41.5	47.7	51.2	52.5	53.2	51.8	49.8	49.8	44.9
87.5°	17.6	16.6	17.3	16.8	16.8	18.4	19.5	19.5	18.4	17.3	16.2
90°	21.4	19.4	17.3	14.8	12.0	9.2	6.3	3.5	6.3	9.2	12.0
92.5°	43.1	41.7	40.2	37.9	34.6	31.4	28.1	24.9	28.1	31.4	34.6
95°	84.7	82.9	81.1	79.0	76.7	74.4	72.0	69.7	72.0	74.4	76.7
97.5°	135.4	133.3	131.2	129.2	127.3	125.5	123.6	121.8	123.6	125.5	127.3
100°	173.1	170.8	168.5	166.8	165.7	164.7	163.7	162.7	163.7	164.7	165.7
102.5°	212.6	210.4	208.3	207.1	206.6	206.2	205.8	205.4	205.8	206.2	206.6
105°	274.4	273.4	272.4	271.7	271.5	271.2	271.0	270.7	271.0	271.2	271.5
107.5°	341.0	340.9	340.7	340.5	340.2	339.9	339.6	339.2	339.6	339.9	340.2
110°	387.4	387.7	387.9	387.8	387.3	386.7	386.2	385.7	386.2	386.7	387.3



TEST NUMBER: P332980

CATALOG NUMBER: SA4XXRDIP-C1020D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	433.4	433.8	434.3	434.5	434.4	434.3	434.2	434.0	434.2	434.3	434.4
115°	505.3	505.8	506.3	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5
117.5°	574.9	575.2	575.6	575.7	575.5	575.3	575.1	574.9	575.1	575.3	575.5
120°	623.1	623.9	624.7	624.5	623.5	622.5	621.4	620.4	621.4	622.5	623.5
122.5°	668.8	669.1	669.5	669.5	669.0	668.6	668.2	667.8	668.2	668.6	669.0
125°	737.1	737.4	737.6	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7
127.5°	803.6	804.0	804.5	804.3	803.5	802.7	802.0	801.2	802.0	802.7	803.5
130°	849.3	849.3	849.3	848.9	848.1	847.3	846.6	845.8	846.6	847.3	848.1
132.5°	893.4	893.6	893.8	893.6	893.0	892.5	891.9	891.3	891.9	892.5	893.0
135°	958.5	958.5	958.5	957.7	956.2	954.6	953.1	951.5	953.1	954.6	956.2
137.5°	1021.3	1020.9	1020.5	1019.9	1019.2	1018.5	1017.8	1017.0	1017.8	1018.5	1019.2
140°	1063.0	1063.0	1063.0	1062.8	1062.3	1061.8	1061.2	1060.7	1061.2	1061.8	1062.3
142.5°	1102.5	1102.7	1102.9	1102.8	1102.2	1101.7	1101.2	1100.7	1101.2	1101.7	1102.2
145°	1161.3	1161.0	1160.8	1160.1	1159.1	1158.1	1157.0	1156.0	1157.0	1158.1	1159.1
147.5°	1215.9	1216.1	1216.3	1215.8	1214.5	1213.3	1212.1	1210.8	1212.1	1213.3	1214.5
150°	1248.9	1248.9	1248.9	1248.4	1247.4	1246.4	1245.3	1244.3	1245.3	1246.4	1247.4
152.5°	1279.2	1279.0	1278.8	1278.4	1277.7	1277.1	1276.5	1275.9	1276.5	1277.1	1277.7
155°	1323.8	1324.1	1324.3	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4
157.5°	1363.1	1363.2	1363.2	1363.5	1364.0	1364.4	1364.9	1365.3	1364.9	1364.4	1364.0
160°	1387.7	1388.0	1388.2	1388.5	1388.7	1389.0	1389.3	1389.5	1389.3	1389.0	1388.7
162.5°	1408.2	1408.4	1408.7	1409.1	1409.8	1410.5	1411.1	1411.8	1411.1	1410.5	1409.8
165°	1437.0	1437.5	1438.0	1438.7	1439.5	1440.2	1441.0	1441.8	1441.0	1440.2	1439.5
167.5°	1460.0	1460.0	1459.9	1460.5	1461.5	1462.6	1463.7	1464.8	1463.7	1462.6	1461.5
170°	1472.6	1472.4	1472.1	1472.6	1473.9	1475.2	1476.5	1477.8	1476.5	1475.2	1473.9
172.5°	1482.4	1482.3	1482.2	1482.8	1483.8	1484.9	1486.0	1487.1	1486.0	1484.9	1483.8
175°	1493.4	1493.7	1493.9	1494.7	1496.0	1497.3	1498.6	1499.9	1498.6	1497.3	1496.0
177.5°	1499.4	1499.4	1499.4	1499.9	1501.0	1502.0	1503.0	1504.1	1503.0	1502.0	1501.0
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P332980

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1684.8	1679.3	1672.1	1663.8	1653.9	1645.0	1641.2	1644.5	1646.1	1641.7	1641.2
5°	1633.6	1616.3	1602.4	1581.7	1565.1	1551.3	1541.6	1537.5	1538.8	1527.8	1525.0
7.5°	1575.9	1555.4	1532.8	1508.1	1485.2	1464.9	1454.2	1448.4	1436.7	1431.7	1423.3
10°	1538.8	1511.2	1489.1	1460.0	1433.8	1409.6	1397.8	1388.1	1376.4	1370.9	1359.1
12.5°	1500.7	1468.6	1444.3	1414.1	1387.3	1358.1	1346.9	1329.0	1310.6	1299.0	1283.9
15°	1446.9	1408.2	1378.5	1342.5	1310.7	1277.5	1247.8	1214.6	1202.2	1175.9	1160.7
17.5°	1384.0	1344.7	1307.9	1259.7	1210.6	1169.4	1137.7	1105.9	1086.9	1070.1	1062.4
20°	1342.5	1306.6	1255.4	1199.4	1144.8	1099.2	1073.6	1052.9	1032.1	1020.4	1012.1
22.5°	1303.2	1257.3	1197.9	1137.5	1082.9	1047.2	1025.5	1004.2	987.3	976.1	965.1
25°	1237.4	1177.3	1114.4	1045.3	1007.9	976.8	953.3	936.0	925.7	911.1	905.6
27.5°	1169.8	1097.0	1027.6	981.1	942.2	913.8	893.3	880.3	867.2	857.9	850.7
30°	1117.8	1043.9	981.7	937.4	898.0	874.5	857.9	842.7	832.3	824.7	819.2
32.5°	1066.4	992.4	940.2	892.6	861.5	838.6	820.9	809.5	801.4	791.5	788.2
35°	992.0	926.3	880.7	837.9	806.1	785.3	771.5	759.7	752.8	750.1	748.0
37.5°	920.5	866.8	817.7	782.6	754.2	737.9	721.6	715.8	711.1	706.1	708.3
40°	875.2	824.7	781.2	743.8	721.0	703.1	693.4	686.5	682.3	682.3	682.3
42.5°	835.9	786.6	744.1	710.7	687.8	672.6	661.9	656.0	654.7	654.1	657.4
45°	775.0	729.3	686.5	658.8	639.5	624.2	618.0	613.2	613.2	616.0	616.6
47.5°	714.5	671.8	637.4	606.4	588.7	579.2	573.8	571.3	571.6	574.3	577.5
50°	677.5	635.3	601.4	573.8	557.2	548.2	543.4	542.0	543.4	543.4	548.2
52.5°	637.1	599.4	566.0	542.8	524.0	515.6	512.9	511.0	511.8	514.1	516.1
55°	577.9	544.1	512.3	490.1	476.3	470.8	464.6	465.2	463.9	465.2	465.2
57.5°	518.6	488.2	458.6	441.1	428.9	420.9	414.1	416.0	414.0	413.7	412.6
60°	480.5	447.3	423.8	407.9	394.0	387.1	380.9	382.3	380.2	378.8	376.1
62.5°	439.0	411.3	388.9	373.6	362.5	354.5	348.3	346.9	342.1	337.4	331.3
65°	378.8	356.0	336.0	321.5	311.1	304.9	300.0	295.9	285.5	274.4	268.9
67.5°	320.4	303.9	285.2	272.9	264.5	256.3	247.1	240.0	230.3	224.3	220.8
70°	282.7	266.8	250.9	239.2	230.2	222.6	212.2	207.4	200.5	197.7	194.3
72.5°	246.8	232.0	217.2	206.6	197.0	191.1	182.9	178.1	175.0	173.9	170.5
75°	192.2	180.4	169.4	159.7	152.1	147.9	144.5	141.0	139.6	133.4	130.0
77.5°	140.2	132.5	125.5	118.6	113.2	110.5	103.8	99.8	97.5	94.6	93.9
80°	109.2	103.7	96.8	92.6	85.0	82.3	79.5	78.8	78.1	77.4	76.7
82.5°	82.1	76.6	69.7	67.2	65.1	63.5	61.8	61.1	60.4	60.8	60.7
85°	41.5	38.7	38.7	38.0	37.3	36.6	35.9	35.9	35.3	35.9	35.3
87.5°	16.8	16.7	17.1	16.5	17.4	17.8	17.6	17.9	18.8	18.0	18.2
90°	14.8	17.3	19.4	21.4	23.5	25.6	27.1	28.7	30.2	31.8	32.8
92.5°	37.9	40.2	41.7	43.1	44.6	46.0	46.9	47.9	48.8	49.7	50.3
95°	79.0	81.1	82.9	84.7	86.5	88.3	89.1	89.8	90.6	91.4	91.8
97.5°	129.2	131.2	133.3	135.4	137.5	139.6	140.6	141.5	142.4	143.4	143.8
100°	166.8	168.5	170.8	173.1	175.4	177.8	178.3	178.8	179.3	179.8	180.1
102.5°	207.1	208.3	210.4	212.6	214.7	216.8	217.5	218.2	219.0	219.7	220.1
105°	271.7	272.4	273.4	274.4	275.5	276.5	277.3	278.1	278.8	279.6	280.4
107.5°	340.5	340.7	340.9	341.0	341.2	341.3	342.1	342.8	343.5	344.2	344.6
110°	387.8	387.9	387.7	387.4	387.1	386.9	386.4	385.8	385.3	384.8	384.9



TEST NUMBER: P332980

CATALOG NUMBER: SA4XXRDIP-C1020D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	434.5	434.3	433.8	433.4	432.9	432.4	432.3	432.2	432.1	432.0	432.0
115°	506.5	506.3	505.8	505.3	504.7	504.2	504.0	503.7	503.4	503.2	502.9
117.5°	575.7	575.6	575.2	574.9	574.5	574.2	573.3	572.4	571.5	570.6	570.0
120°	624.5	624.7	623.9	623.1	622.3	621.6	620.3	619.0	617.7	616.4	616.0
122.5°	669.5	669.5	669.1	668.8	668.4	668.0	667.2	666.3	665.4	664.5	663.6
125°	737.7	737.6	737.4	737.1	736.8	736.6	736.1	735.5	735.0	734.5	734.0
127.5°	804.3	804.5	804.0	803.6	803.2	802.8	802.3	801.8	801.3	800.7	800.3
130°	848.9	849.3	849.3	849.3	849.3	849.3	848.8	848.2	847.7	847.2	846.4
132.5°	893.6	893.8	893.6	893.4	893.2	893.0	892.4	891.9	891.4	890.9	890.4
135°	957.7	958.5	958.5	958.5	958.5	958.5	958.0	957.5	956.9	956.4	955.8
137.5°	1019.9	1020.5	1020.9	1021.3	1021.7	1022.1	1021.5	1020.8	1020.1	1019.5	1019.2
140°	1062.8	1063.0	1063.0	1063.0	1063.0	1063.0	1062.8	1062.5	1062.3	1062.0	1061.8
142.5°	1102.8	1102.9	1102.7	1102.5	1102.3	1102.1	1102.0	1102.0	1101.9	1101.9	1101.8
145°	1160.1	1160.8	1161.0	1161.3	1161.5	1161.8	1161.5	1161.3	1161.0	1160.8	1160.2
147.5°	1215.8	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1215.1	1214.9	1214.6	1214.4
150°	1248.4	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.8
152.5°	1278.4	1278.8	1279.0	1279.2	1279.4	1279.6	1280.2	1280.8	1281.5	1282.1	1282.1
155°	1324.4	1324.3	1324.1	1323.8	1323.5	1323.3	1324.3	1325.4	1326.4	1327.4	1327.4
157.5°	1363.5	1363.2	1363.2	1363.1	1363.1	1363.0	1363.8	1364.6	1365.3	1366.1	1366.1
160°	1388.5	1388.2	1388.0	1387.7	1387.4	1387.2	1388.0	1388.7	1389.5	1390.3	1390.0
162.5°	1409.1	1408.7	1408.4	1408.2	1407.9	1407.6	1409.0	1410.4	1411.8	1413.2	1413.3
165°	1438.7	1438.0	1437.5	1437.0	1436.5	1436.0	1437.5	1439.1	1440.6	1442.2	1442.4
167.5°	1460.5	1459.9	1460.0	1460.0	1460.1	1460.1	1461.7	1463.2	1464.8	1466.3	1466.3
170°	1472.6	1472.1	1472.4	1472.6	1472.9	1473.2	1474.7	1476.3	1477.8	1479.4	1479.2
172.5°	1482.8	1482.2	1482.3	1482.4	1482.4	1482.5	1484.2	1486.0	1487.7	1489.5	1489.5
175°	1494.7	1493.9	1493.7	1493.4	1493.2	1492.9	1494.7	1496.5	1498.3	1500.1	1500.1
177.5°	1499.9	1499.4	1499.4	1499.4	1499.4	1499.4	1500.9	1502.3	1503.8	1505.2	1505.1
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P332980

CATALOG NUMBER: SA4XXRDIP-C1020D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1637.8	1638.9	1635.1	1634.0	1635.1	1638.9	1637.8	1641.2	1641.7	1646.1	1644.5
5°	1519.5	1518.1	1514.6	1515.3	1514.6	1518.1	1519.5	1525.0	1527.8	1538.8	1537.5
7.5°	1418.3	1412.9	1414.4	1408.9	1414.4	1412.9	1418.3	1423.3	1431.7	1436.7	1448.4
10°	1356.3	1348.7	1342.5	1337.0	1342.5	1348.7	1356.3	1359.1	1370.9	1376.4	1388.1
12.5°	1271.7	1265.2	1256.8	1258.5	1256.8	1265.2	1271.7	1283.9	1299.0	1310.6	1329.0
15°	1151.7	1141.3	1124.8	1126.8	1124.8	1141.3	1151.7	1160.7	1175.9	1202.2	1214.6
17.5°	1050.1	1050.2	1042.6	1044.4	1042.6	1050.2	1050.1	1062.4	1070.1	1086.9	1105.9
20°	997.6	992.7	993.4	991.3	993.4	992.7	997.6	1012.1	1020.4	1032.1	1052.9
22.5°	961.1	955.1	950.3	946.0	950.3	955.1	961.1	965.1	976.1	987.3	1004.2
25°	899.4	895.2	889.0	887.6	889.0	895.2	899.4	905.6	911.1	925.7	936.0
27.5°	845.2	844.4	841.9	838.7	841.9	844.4	845.2	850.7	857.9	867.2	880.3
30°	813.7	812.3	810.9	808.8	810.9	812.3	813.7	819.2	824.7	832.3	842.7
32.5°	785.5	784.6	783.2	783.4	783.2	784.6	785.5	788.2	791.5	801.4	809.5
35°	745.2	744.5	743.2	742.5	743.2	744.5	745.2	748.0	750.1	752.8	759.7
37.5°	707.6	709.4	708.6	708.4	708.6	709.4	707.6	708.3	706.1	711.1	715.8
40°	681.6	682.3	683.7	683.0	683.7	682.3	681.6	682.3	682.3	682.3	686.5
42.5°	660.1	660.2	662.1	659.8	662.1	660.2	660.1	657.4	654.1	654.7	656.0
45°	621.5	625.6	624.9	624.9	624.9	625.6	621.5	616.6	616.0	613.2	613.2
47.5°	579.3	582.9	583.9	583.7	583.9	582.9	579.3	577.5	574.3	571.6	571.3
50°	551.7	550.3	552.4	551.7	552.4	550.3	551.7	548.2	543.4	543.4	542.0
52.5°	517.9	518.2	518.1	517.4	518.1	518.2	517.9	516.1	514.1	511.8	511.0
55°	465.9	466.6	465.2	465.9	465.2	466.6	465.9	465.2	465.2	463.9	465.2
57.5°	409.5	406.2	407.6	405.9	407.6	406.2	409.5	412.6	413.7	414.0	416.0
60°	369.2	363.6	362.2	359.5	362.2	363.6	369.2	376.1	378.8	380.2	382.3
62.5°	323.8	319.9	315.2	317.4	315.2	319.9	323.8	331.3	337.4	342.1	346.9
65°	263.4	260.6	258.5	261.3	258.5	260.6	263.4	268.9	274.4	285.5	295.9
67.5°	218.0	216.5	216.5	215.1	216.5	216.5	218.0	220.8	224.3	230.3	240.0
70°	194.3	192.2	192.2	190.8	192.2	192.2	194.3	194.3	197.7	200.5	207.4
72.5°	169.9	167.8	168.4	167.6	168.4	167.8	169.9	170.5	173.9	175.0	178.1
75°	125.8	122.4	122.4	123.1	122.4	122.4	125.8	130.0	133.4	139.6	141.0
77.5°	93.9	93.2	94.2	92.9	94.2	93.2	93.9	93.9	94.6	97.5	99.8
80°	76.7	76.0	75.4	77.4	75.4	76.0	76.7	76.7	77.4	78.1	78.8
82.5°	59.6	59.5	59.3	61.9	59.3	59.5	59.6	60.7	60.8	60.4	61.1
85°	35.9	34.6	35.9	34.6	35.9	34.6	35.9	35.3	35.9	35.3	35.9
87.5°	19.4	18.9	18.5	19.1	18.5	18.9	19.4	18.2	18.0	18.8	17.9
90°	33.3	33.8	34.3	34.9	34.3	33.8	33.3	32.8	31.8	30.2	28.7
92.5°	50.7	51.0	51.3	51.6	51.3	51.0	50.7	50.3	49.7	48.8	47.9
95°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.4	90.6	89.8
97.5°	143.8	143.8	143.8	143.8	143.8	143.8	143.8	143.8	143.4	142.4	141.5
100°	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	179.8	179.3	178.8
102.5°	220.4	220.6	220.8	221.0	220.8	220.6	220.4	220.1	219.7	219.0	218.2
105°	281.2	281.9	282.7	283.5	282.7	281.9	281.2	280.4	279.6	278.8	278.1
107.5°	344.5	344.5	344.4	344.4	344.4	344.5	344.5	344.6	344.2	343.5	342.8
110°	385.7	386.5	387.3	388.0	387.3	386.5	385.7	384.9	384.8	385.3	385.8



TEST NUMBER: P332980

CATALOG NUMBER: SA4XXRDIP-C1020D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	432.2	432.3	432.5	432.7	432.5	432.3	432.2	432.0	432.0	432.1	432.2
115°	502.7	502.4	502.2	501.9	502.2	502.4	502.7	502.9	503.2	503.4	503.7
117.5°	569.4	568.9	568.4	567.9	568.4	568.9	569.4	570.0	570.6	571.5	572.4
120°	616.5	617.0	617.6	618.1	617.6	617.0	616.5	616.0	616.4	617.7	619.0
122.5°	662.7	661.8	660.8	659.9	660.8	661.8	662.7	663.6	664.5	665.4	666.3
125°	733.5	733.0	732.4	731.9	732.4	733.0	733.5	734.0	734.5	735.0	735.5
127.5°	799.9	799.4	799.0	798.6	799.0	799.4	799.9	800.3	800.7	801.3	801.8
130°	845.4	844.4	843.3	842.3	843.3	844.4	845.4	846.4	847.2	847.7	848.2
132.5°	890.0	889.6	889.2	888.8	889.2	889.6	890.0	890.4	890.9	891.4	891.9
135°	955.0	954.2	953.4	952.7	953.4	954.2	955.0	955.8	956.4	956.9	957.5
137.5°	1019.4	1019.5	1019.7	1019.8	1019.7	1019.5	1019.4	1019.2	1019.5	1020.1	1020.8
140°	1061.5	1061.2	1061.0	1060.7	1061.0	1061.2	1061.5	1061.8	1062.0	1062.3	1062.5
142.5°	1101.8	1101.7	1101.7	1101.6	1101.7	1101.7	1101.8	1101.8	1101.9	1101.9	1102.0
145°	1159.5	1158.7	1157.9	1157.2	1157.9	1158.7	1159.5	1160.2	1160.8	1161.0	1161.3
147.5°	1214.2	1213.9	1213.6	1213.4	1213.6	1213.9	1214.2	1214.4	1214.6	1214.9	1215.1
150°	1248.5	1248.3	1248.0	1247.8	1248.0	1248.3	1248.5	1248.8	1248.9	1248.9	1248.9
152.5°	1281.4	1280.7	1280.0	1279.4	1280.0	1280.7	1281.4	1282.1	1282.1	1281.5	1280.8
155°	1326.4	1325.4	1324.3	1323.3	1324.3	1325.4	1326.4	1327.4	1327.4	1326.4	1325.4
157.5°	1365.2	1364.3	1363.4	1362.6	1363.4	1364.3	1365.2	1366.1	1366.1	1365.3	1364.6
160°	1388.7	1387.4	1386.2	1384.9	1386.2	1387.4	1388.7	1390.0	1390.3	1389.5	1388.7
162.5°	1412.0	1410.7	1409.4	1408.1	1409.4	1410.7	1412.0	1413.3	1413.2	1411.8	1410.4
165°	1441.4	1440.4	1439.3	1438.3	1439.3	1440.4	1441.4	1442.4	1442.2	1440.6	1439.1
167.5°	1464.7	1463.1	1461.5	1459.9	1461.5	1463.1	1464.7	1466.3	1466.3	1464.8	1463.2
170°	1477.4	1475.6	1473.8	1472.0	1473.8	1475.6	1477.4	1479.2	1479.4	1477.8	1476.3
172.5°	1487.6	1485.8	1484.0	1482.2	1484.0	1485.8	1487.6	1489.5	1489.5	1487.7	1486.0
175°	1498.3	1496.5	1494.7	1492.9	1494.7	1496.5	1498.3	1500.1	1500.1	1498.3	1496.5
177.5°	1503.4	1501.8	1500.1	1498.5	1500.1	1501.8	1503.4	1505.1	1505.2	1503.8	1502.3
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1641.2	1645.0	1653.9	1663.8	1672.1	1679.3	1684.8	1692.6	1699.8	1709.7	1719.1
5°	1541.6	1551.3	1565.1	1581.7	1602.4	1616.3	1633.6	1648.8	1670.9	1693.0	1714.4
7.5°	1454.2	1464.9	1485.2	1508.1	1532.8	1555.4	1575.9	1602.7	1632.0	1664.2	1700.2
10°	1397.8	1409.6	1433.8	1460.0	1489.1	1511.2	1538.8	1570.6	1603.8	1643.2	1687.5
12.5°	1346.9	1358.1	1387.3	1414.1	1444.3	1468.6	1500.7	1533.0	1577.3	1620.0	1670.3
15°	1247.8	1277.5	1310.7	1342.5	1378.5	1408.2	1446.9	1480.1	1522.3	1582.4	1639.8
17.5°	1137.7	1169.4	1210.6	1259.7	1307.9	1344.7	1384.0	1425.2	1475.4	1536.8	1603.0
20°	1073.6	1099.2	1144.8	1199.4	1255.4	1306.6	1342.5	1388.1	1440.0	1506.4	1574.8
22.5°	1025.5	1047.2	1082.9	1137.5	1197.9	1257.3	1303.2	1348.3	1405.7	1472.1	1546.6
25°	953.3	976.8	1007.9	1045.3	1114.4	1177.3	1237.4	1289.3	1350.1	1416.5	1499.4
27.5°	893.3	913.8	942.2	981.1	1027.6	1097.0	1169.8	1229.0	1291.4	1362.6	1445.7
30°	857.9	874.5	898.0	937.4	981.7	1043.9	1117.8	1187.0	1249.9	1323.8	1410.3
32.5°	820.9	838.6	861.5	892.6	940.2	992.4	1066.4	1142.2	1209.0	1284.6	1369.3
35°	771.5	785.3	806.1	837.9	880.7	926.3	992.0	1070.1	1140.7	1221.5	1302.4
37.5°	721.6	737.9	754.2	782.6	817.7	866.8	920.5	1000.3	1078.4	1152.3	1231.2
40°	693.4	703.1	721.0	743.8	781.2	824.7	875.2	953.3	1031.4	1104.7	1184.2
42.5°	661.9	672.6	687.8	710.7	744.1	786.6	835.9	903.5	985.0	1056.0	1128.3
45°	618.0	624.2	639.5	658.8	686.5	729.3	775.0	835.1	911.8	979.6	1043.2
47.5°	573.8	579.2	588.7	606.4	637.4	671.8	714.5	768.5	835.8	903.5	957.3
50°	543.4	548.2	557.2	573.8	601.4	635.3	677.5	725.9	786.0	851.0	895.9
52.5°	512.9	515.6	524.0	542.8	566.0	599.4	637.1	681.6	737.9	791.8	837.3
55°	464.6	470.8	476.3	490.1	512.3	544.1	577.9	620.1	663.7	709.3	748.0
57.5°	414.1	420.9	428.9	441.1	458.6	488.2	518.6	552.8	590.0	627.8	660.3
60°	380.9	387.1	394.0	407.9	423.8	447.3	480.5	510.2	538.5	573.1	605.6
62.5°	348.3	354.5	362.5	373.6	388.9	411.3	439.0	464.8	494.3	524.4	548.6
65°	300.0	304.9	311.1	321.5	336.0	356.0	378.8	398.9	425.2	447.3	469.4
67.5°	247.1	256.3	264.5	272.9	285.2	303.9	320.4	339.6	357.4	373.9	394.0
70°	212.2	222.6	230.2	239.2	250.9	266.8	282.7	295.9	310.4	326.3	344.3
72.5°	182.9	191.1	197.0	206.6	217.2	232.0	246.8	257.7	269.5	280.4	297.8
75°	144.5	147.9	152.1	159.7	169.4	180.4	192.2	201.9	208.8	218.5	230.9
77.5°	103.8	110.5	113.2	118.6	125.5	132.5	140.2	148.4	155.0	158.4	168.0
80°	79.5	82.3	85.0	92.6	96.8	103.7	109.2	116.8	119.6	123.1	132.0
82.5°	61.8	63.5	65.1	67.2	69.7	76.6	82.1	87.0	89.7	91.0	97.8
85°	35.9	36.6	37.3	38.0	38.7	38.7	41.5	44.9	49.8	49.8	51.8
87.5°	17.6	17.8	17.4	16.5	17.1	16.7	16.8	16.2	17.3	18.4	19.5
90°	27.1	25.6	23.5	21.4	19.4	17.3	14.8	12.0	9.2	6.3	3.5
92.5°	46.9	46.0	44.6	43.1	41.7	40.2	37.9	34.6	31.4	28.1	24.9
95°	89.1	88.3	86.5	84.7	82.9	81.1	79.0	76.7	74.4	72.0	69.7
97.5°	140.6	139.6	137.5	135.4	133.3	131.2	129.2	127.3	125.5	123.6	121.8
100°	178.3	177.8	175.4	173.1	170.8	168.5	166.8	165.7	164.7	163.7	162.7
102.5°	217.5	216.8	214.7	212.6	210.4	208.3	207.1	206.6	206.2	205.8	205.4
105°	277.3	276.5	275.5	274.4	273.4	272.4	271.7	271.5	271.2	271.0	270.7
107.5°	342.1	341.3	341.2	341.0	340.9	340.7	340.5	340.2	339.9	339.6	339.2
110°	386.4	386.9	387.1	387.4	387.7	387.9	387.8	387.3	386.7	386.2	385.7



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CATALOG NUMBER: SA4XXRDIP-C1020D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	432.3	432.4	432.9	433.4	433.8	434.3	434.5	434.4	434.3	434.2	434.0
115°	504.0	504.2	504.7	505.3	505.8	506.3	506.5	506.5	506.5	506.5	506.5
117.5°	573.3	574.2	574.5	574.9	575.2	575.6	575.7	575.5	575.3	575.1	574.9
120°	620.3	621.6	622.3	623.1	623.9	624.7	624.5	623.5	622.5	621.4	620.4
122.5°	667.2	668.0	668.4	668.8	669.1	669.5	669.5	669.0	668.6	668.2	667.8
125°	736.1	736.6	736.8	737.1	737.4	737.6	737.7	737.7	737.7	737.7	737.7
127.5°	802.3	802.8	803.2	803.6	804.0	804.5	804.3	803.5	802.7	802.0	801.2
130°	848.8	849.3	849.3	849.3	849.3	849.3	848.9	848.1	847.3	846.6	845.8
132.5°	892.4	893.0	893.2	893.4	893.6	893.8	893.6	893.0	892.5	891.9	891.3
135°	958.0	958.5	958.5	958.5	958.5	958.5	957.7	956.2	954.6	953.1	951.5
137.5°	1021.5	1022.1	1021.7	1021.3	1020.9	1020.5	1019.9	1019.2	1018.5	1017.8	1017.0
140°	1062.8	1063.0	1063.0	1063.0	1063.0	1063.0	1062.8	1062.3	1061.8	1061.2	1060.7
142.5°	1102.0	1102.1	1102.3	1102.5	1102.7	1102.9	1102.8	1102.2	1101.7	1101.2	1100.7
145°	1161.5	1161.8	1161.5	1161.3	1161.0	1160.8	1160.1	1159.1	1158.1	1157.0	1156.0
147.5°	1215.3	1215.5	1215.7	1215.9	1216.1	1216.3	1215.8	1214.5	1213.3	1212.1	1210.8
150°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.4	1247.4	1246.4	1245.3	1244.3
152.5°	1280.2	1279.6	1279.4	1279.2	1279.0	1278.8	1278.4	1277.7	1277.1	1276.5	1275.9
155°	1324.3	1323.3	1323.5	1323.8	1324.1	1324.3	1324.4	1324.4	1324.4	1324.4	1324.4
157.5°	1363.8	1363.0	1363.1	1363.1	1363.2	1363.2	1363.5	1364.0	1364.4	1364.9	1365.3
160°	1388.0	1387.2	1387.4	1387.7	1388.0	1388.2	1388.5	1388.7	1389.0	1389.3	1389.5
162.5°	1409.0	1407.6	1407.9	1408.2	1408.4	1408.7	1409.1	1409.8	1410.5	1411.1	1411.8
165°	1437.5	1436.0	1436.5	1437.0	1437.5	1438.0	1438.7	1439.5	1440.2	1441.0	1441.8
167.5°	1461.7	1460.1	1460.1	1460.0	1460.0	1459.9	1460.5	1461.5	1462.6	1463.7	1464.8
170°	1474.7	1473.2	1472.9	1472.6	1472.4	1472.1	1472.6	1473.9	1475.2	1476.5	1477.8
172.5°	1484.2	1482.5	1482.4	1482.4	1482.3	1482.2	1482.8	1483.8	1484.9	1486.0	1487.1
175°	1494.7	1492.9	1493.2	1493.4	1493.7	1493.9	1494.7	1496.0	1497.3	1498.6	1499.9
177.5°	1500.9	1499.4	1499.4	1499.4	1499.4	1499.4	1499.9	1501.0	1502.0	1503.0	1504.1
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P332980

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1726.3	1731.3	1736.8	1747.3	1756.2	1760.1	1767.8	1773.3	1771.7	1779.4	1792.7
5°	1733.1	1751.8	1773.2	1795.3	1820.2	1840.9	1857.5	1874.1	1887.3	1903.2	1926.7
7.5°	1732.0	1765.2	1801.3	1840.9	1881.7	1917.0	1949.6	1982.8	2012.2	2044.5	2086.6
10°	1727.6	1771.8	1816.7	1868.6	1920.4	1969.5	2013.8	2055.2	2094.7	2136.8	2190.1
12.5°	1722.6	1773.5	1827.8	1890.2	1954.7	2013.8	2065.8	2125.5	2174.8	2229.2	2290.7
15°	1700.6	1769.0	1843.0	1923.9	2001.3	2080.8	2152.0	2225.3	2293.7	2358.7	2436.2
17.5°	1675.4	1754.4	1841.6	1937.2	2030.2	2126.9	2211.3	2303.7	2373.7	2460.9	2532.8
20°	1655.0	1740.0	1833.3	1940.5	2046.3	2153.4	2246.7	2340.8	2419.6	2507.4	2598.6
22.5°	1630.1	1723.4	1824.5	1935.5	2046.3	2163.4	2266.6	2360.1	2457.7	2556.6	2650.6
25°	1590.0	1686.8	1793.9	1915.6	2042.8	2162.4	2273.0	2389.1	2494.2	2601.4	2685.7
27.5°	1540.8	1642.4	1755.4	1880.9	2011.4	2133.9	2264.2	2387.9	2493.7	2596.8	2670.4
30°	1501.5	1608.7	1717.2	1844.4	1979.9	2111.2	2250.9	2374.6	2485.9	2578.6	2620.0
32.5°	1461.1	1562.8	1674.6	1803.5	1942.3	2083.6	2222.1	2348.6	2451.6	2507.2	2508.3
35°	1390.9	1486.3	1602.4	1729.0	1871.4	2024.8	2165.2	2289.6	2352.5	2357.3	2289.6
37.5°	1314.3	1401.8	1511.5	1638.1	1794.1	1946.7	2090.1	2173.0	2194.1	2123.7	1998.4
40°	1259.6	1340.4	1446.2	1576.2	1731.0	1888.6	2019.3	2080.1	2058.0	1943.9	1804.3
42.5°	1202.0	1277.4	1379.3	1507.6	1663.0	1822.3	1933.6	1966.2	1907.6	1775.8	1612.4
45°	1108.2	1177.3	1278.2	1407.5	1556.8	1706.1	1790.5	1773.9	1676.4	1520.2	1337.0
47.5°	1010.4	1077.2	1168.0	1287.6	1440.5	1569.4	1626.5	1576.5	1437.8	1265.9	1116.9
50°	945.7	1014.1	1097.8	1211.9	1351.5	1475.9	1512.6	1436.5	1282.4	1117.1	980.3
52.5°	882.1	940.6	1022.6	1132.8	1266.3	1371.4	1390.9	1303.2	1144.1	996.0	874.6
55°	785.3	838.6	907.7	1011.4	1126.8	1216.0	1205.6	1093.0	948.5	822.0	726.6
57.5°	691.7	731.8	795.7	892.9	994.2	1054.1	1016.2	920.1	785.5	681.9	601.4
60°	629.8	667.1	726.6	811.6	900.8	934.6	902.8	798.5	692.0	597.3	529.5
62.5°	571.2	604.1	655.2	734.2	806.2	826.2	792.2	701.1	605.2	524.3	468.2
65°	486.0	516.4	560.0	616.0	665.7	675.4	653.3	560.0	487.4	419.6	380.9
67.5°	408.7	428.6	462.6	511.0	537.4	543.1	500.4	441.7	377.7	336.1	306.9
70°	356.7	370.5	402.3	428.6	450.0	450.7	411.3	364.3	315.2	281.4	259.9
72.5°	306.4	319.7	343.7	361.7	378.1	372.8	336.7	299.6	259.9	234.4	218.5
75°	236.4	248.2	260.6	268.9	268.9	262.0	235.7	208.1	185.3	170.1	165.2
77.5°	171.9	181.5	185.7	184.4	182.0	171.2	154.6	136.5	128.3	121.1	117.5
80°	134.8	139.0	140.3	136.9	132.7	120.3	109.2	101.6	94.0	91.3	89.9
82.5°	100.0	103.6	100.0	100.9	91.8	81.6	75.5	72.9	69.7	68.6	67.2
85°	53.2	52.5	51.2	47.7	41.5	40.1	39.4	38.7	37.3	38.0	36.6
87.5°	19.5	18.4	16.8	16.8	17.3	16.6	17.6	18.0	18.4	18.1	19.6
90°	6.3	9.2	12.0	14.8	17.3	19.4	21.4	23.5	25.6	27.1	28.7
92.5°	28.1	31.4	34.6	37.9	40.2	41.7	43.1	44.6	46.0	46.9	47.9
95°	72.0	74.4	76.7	79.0	81.1	82.9	84.7	86.5	88.3	89.1	89.8
97.5°	123.6	125.5	127.3	129.2	131.2	133.3	135.4	137.5	139.6	140.6	141.5
100°	163.7	164.7	165.7	166.8	168.5	170.8	173.1	175.4	177.8	178.3	178.8
102.5°	205.8	206.2	206.6	207.1	208.3	210.4	212.6	214.7	216.8	217.5	218.2
105°	271.0	271.2	271.5	271.7	272.4	273.4	274.4	275.5	276.5	277.3	278.1
107.5°	339.6	339.9	340.2	340.5	340.7	340.9	341.0	341.2	341.3	342.1	342.8
110°	386.2	386.7	387.3	387.8	387.9	387.7	387.4	387.1	386.9	386.4	385.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	434.2	434.3	434.4	434.5	434.3	433.8	433.4	432.9	432.4	432.3	432.2
115°	506.5	506.5	506.5	506.5	506.3	505.8	505.3	504.7	504.2	504.0	503.7
117.5°	575.1	575.3	575.5	575.7	575.6	575.2	574.9	574.5	574.2	573.3	572.4
120°	621.4	622.5	623.5	624.5	624.7	623.9	623.1	622.3	621.6	620.3	619.0
122.5°	668.2	668.6	669.0	669.5	669.5	669.1	668.8	668.4	668.0	667.2	666.3
125°	737.7	737.7	737.7	737.7	737.6	737.4	737.1	736.8	736.6	736.1	735.5
127.5°	802.0	802.7	803.5	804.3	804.5	804.0	803.6	803.2	802.8	802.3	801.8
130°	846.6	847.3	848.1	848.9	849.3	849.3	849.3	849.3	849.3	848.8	848.2
132.5°	891.9	892.5	893.0	893.6	893.8	893.6	893.4	893.2	893.0	892.4	891.9
135°	953.1	954.6	956.2	957.7	958.5	958.5	958.5	958.5	958.5	958.0	957.5
137.5°	1017.8	1018.5	1019.2	1019.9	1020.5	1020.9	1021.3	1021.7	1022.1	1021.5	1020.8
140°	1061.2	1061.8	1062.3	1062.8	1063.0	1063.0	1063.0	1063.0	1063.0	1062.8	1062.5
142.5°	1101.2	1101.7	1102.2	1102.8	1102.9	1102.7	1102.5	1102.3	1102.1	1102.0	1102.0
145°	1157.0	1158.1	1159.1	1160.1	1160.8	1161.0	1161.3	1161.5	1161.8	1161.5	1161.3
147.5°	1212.1	1213.3	1214.5	1215.8	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1215.1
150°	1245.3	1246.4	1247.4	1248.4	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
152.5°	1276.5	1277.1	1277.7	1278.4	1278.8	1279.0	1279.2	1279.4	1279.6	1280.2	1280.8
155°	1324.4	1324.4	1324.4	1324.4	1324.3	1324.1	1323.8	1323.5	1323.3	1324.3	1325.4
157.5°	1364.9	1364.4	1364.0	1363.5	1363.2	1363.2	1363.1	1363.1	1363.0	1363.8	1364.6
160°	1389.3	1389.0	1388.7	1388.5	1388.2	1388.0	1387.7	1387.4	1387.2	1388.0	1388.7
162.5°	1411.1	1410.5	1409.8	1409.1	1408.7	1408.4	1408.2	1407.9	1407.6	1409.0	1410.4
165°	1441.0	1440.2	1439.5	1438.7	1438.0	1437.5	1437.0	1436.5	1436.0	1437.5	1439.1
167.5°	1463.7	1462.6	1461.5	1460.5	1459.9	1460.0	1460.0	1460.1	1460.1	1461.7	1463.2
170°	1476.5	1475.2	1473.9	1472.6	1472.1	1472.4	1472.6	1472.9	1473.2	1474.7	1476.3
172.5°	1486.0	1484.9	1483.8	1482.8	1482.2	1482.3	1482.4	1482.4	1482.5	1484.2	1486.0
175°	1498.6	1497.3	1496.0	1494.7	1493.9	1493.7	1493.4	1493.2	1492.9	1494.7	1496.5
177.5°	1503.0	1502.0	1501.0	1499.9	1499.4	1499.4	1499.4	1499.4	1499.4	1500.9	1502.3
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1799.9	1802.1	1803.8	1809.3	1809.8	1814.8	1809.8
5°	1948.8	1958.5	1973.7	1988.9	1990.3	1999.9	1982.7
7.5°	2115.8	2138.2	2152.2	2176.8	2186.5	2192.5	2182.6
10°	2230.8	2251.6	2288.2	2306.2	2324.2	2326.9	2318.6
12.5°	2342.0	2374.9	2403.8	2437.8	2437.0	2461.3	2452.5
15°	2490.1	2524.0	2564.0	2602.1	2615.9	2615.9	2627.0
17.5°	2595.7	2657.8	2699.3	2729.1	2761.8	2767.4	2763.6
20°	2667.1	2734.1	2778.4	2817.1	2839.2	2845.4	2845.4
22.5°	2720.1	2777.2	2820.4	2855.2	2873.5	2880.8	2878.6
25°	2756.9	2806.0	2832.3	2842.6	2847.5	2846.1	2833.0
27.5°	2706.6	2704.4	2687.8	2656.0	2632.1	2617.6	2601.0
30°	2610.4	2574.4	2532.9	2487.3	2428.6	2383.6	2369.8
32.5°	2467.1	2386.4	2316.1	2240.1	2176.9	2132.0	2113.2
35°	2190.1	2062.2	1957.8	1866.5	1800.2	1758.7	1744.9
37.5°	1861.3	1737.5	1608.3	1519.8	1464.7	1422.8	1407.2
40°	1652.2	1517.4	1404.7	1321.8	1265.1	1224.3	1223.6
42.5°	1461.4	1332.7	1226.7	1166.9	1105.8	1078.8	1078.7
45°	1196.6	1093.6	1003.8	956.8	920.1	898.0	891.8
47.5°	990.8	905.6	845.7	808.3	778.4	764.3	755.2
50°	875.2	800.5	752.8	720.3	703.7	685.8	684.4
52.5°	779.0	718.7	681.5	655.1	634.1	623.3	623.6
55°	654.7	607.0	580.7	560.6	544.1	535.8	532.3
57.5°	551.5	515.7	496.6	478.2	471.2	464.7	462.9
60°	487.4	463.2	445.2	430.7	420.3	418.2	417.5
62.5°	434.3	409.0	396.5	385.3	377.7	374.5	373.3
65°	358.1	339.4	328.4	319.4	316.6	311.8	311.1
67.5°	288.7	277.5	270.2	263.9	260.2	259.9	259.9
70°	246.1	239.9	233.7	230.2	228.1	226.7	226.7
72.5°	209.6	205.0	199.9	198.1	197.7	196.3	195.8
75°	159.7	154.9	155.5	152.1	149.3	145.9	143.8
77.5°	113.2	109.8	109.1	108.7	106.3	105.9	107.0
80°	87.8	84.3	83.6	84.3	83.6	81.6	81.6
82.5°	66.8	63.9	63.2	62.8	62.1	62.8	61.7
85°	35.9	34.6	34.6	34.6	35.9	35.3	34.6
87.5°	18.8	18.5	19.3	18.8	18.9	18.5	19.1
90°	30.2	31.8	32.8	33.3	33.8	34.3	34.9
92.5°	48.8	49.7	50.3	50.7	51.0	51.3	51.6
95°	90.6	91.4	91.8	91.8	91.8	91.8	91.8
97.5°	142.4	143.4	143.8	143.8	143.8	143.8	143.8
100°	179.3	179.8	180.1	180.1	180.1	180.1	180.1
102.5°	219.0	219.7	220.1	220.4	220.6	220.8	221.0
105°	278.8	279.6	280.4	281.2	281.9	282.7	283.5
107.5°	343.5	344.2	344.6	344.5	344.5	344.4	344.4
110°	385.3	384.8	384.9	385.7	386.5	387.3	388.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	432.1	432.0	432.0	432.2	432.3	432.5	432.7
115°	503.4	503.2	502.9	502.7	502.4	502.2	501.9
117.5°	571.5	570.6	570.0	569.4	568.9	568.4	567.9
120°	617.7	616.4	616.0	616.5	617.0	617.6	618.1
122.5°	665.4	664.5	663.6	662.7	661.8	660.8	659.9
125°	735.0	734.5	734.0	733.5	733.0	732.4	731.9
127.5°	801.3	800.7	800.3	799.9	799.4	799.0	798.6
130°	847.7	847.2	846.4	845.4	844.4	843.3	842.3
132.5°	891.4	890.9	890.4	890.0	889.6	889.2	888.8
135°	956.9	956.4	955.8	955.0	954.2	953.4	952.7
137.5°	1020.1	1019.5	1019.2	1019.4	1019.5	1019.7	1019.8
140°	1062.3	1062.0	1061.8	1061.5	1061.2	1061.0	1060.7
142.5°	1101.9	1101.9	1101.8	1101.8	1101.7	1101.7	1101.6
145°	1161.0	1160.8	1160.2	1159.5	1158.7	1157.9	1157.2
147.5°	1214.9	1214.6	1214.4	1214.2	1213.9	1213.6	1213.4
150°	1248.9	1248.9	1248.8	1248.5	1248.3	1248.0	1247.8
152.5°	1281.5	1282.1	1282.1	1281.4	1280.7	1280.0	1279.4
155°	1326.4	1327.4	1327.4	1326.4	1325.4	1324.3	1323.3
157.5°	1365.3	1366.1	1366.1	1365.2	1364.3	1363.4	1362.6
160°	1389.5	1390.3	1390.0	1388.7	1387.4	1386.2	1384.9
162.5°	1411.8	1413.2	1413.3	1412.0	1410.7	1409.4	1408.1
165°	1440.6	1442.2	1442.4	1441.4	1440.4	1439.3	1438.3
167.5°	1464.8	1466.3	1466.3	1464.7	1463.1	1461.5	1459.9
170°	1477.8	1479.4	1479.2	1477.4	1475.6	1473.8	1472.0
172.5°	1487.7	1489.5	1489.5	1487.6	1485.8	1484.0	1482.2
175°	1498.3	1500.1	1500.1	1498.3	1496.5	1494.7	1492.9
177.5°	1503.8	1505.2	1505.1	1503.4	1501.8	1500.1	1498.5
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2

(END OF REPORT)