

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: P331456

Luminaire Tested: **SA2XXDIP-C1005D1080U835-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331456
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D1080U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

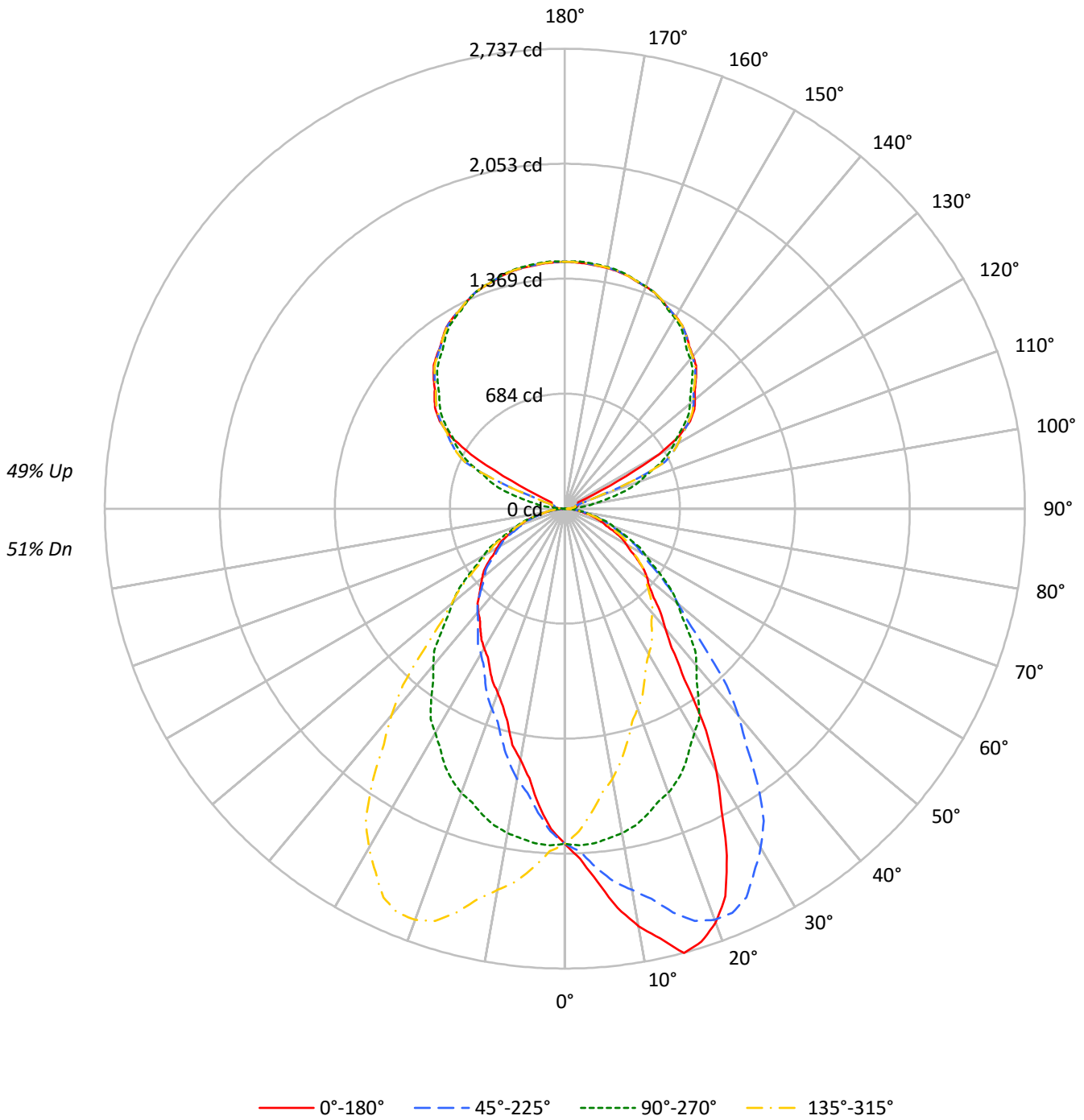
Lumens per Lamp: N/A
Luminaire Lumens: 8708.2 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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	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	60	59	51	50	49	44
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	43	42	37
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	45	64	54	47	42	47	41	37	40	36	32	33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	60	48	40	34	55	44	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	22	20	18
9	52	40	32	27	48	37	31	26	32	27	23	28	24	21	24	21	18	16
10	48	36	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32195	32195	32195	32195
5°	36094	32405	28716	32405
10°	41361	32139	24851	32139
15°	45757	31550	21956	31550
20°	45060	30917	20015	30917
25°	40631	30077	18786	30077
30°	33575	28732	17889	28732
35°	24471	27325	17251	27325
40°	19545	25665	16895	25665
45°	17080	23745	16413	23745
50°	16053	21886	16093	21886
55°	14798	19997	15662	19997
60°	13563	17990	14996	17990
65°	12355	16191	14346	16191
70°	11216	14436	13388	14436
75°	9944	12477	11859	12477
80°	8554	10330	9549	10330
85°	7669	7669	5687	7669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	2.2
10°-20°	552.1	6.3
20°-30°	801.2	9.2
30°-40°	845.5	9.7
40°-50°	748.6	8.6
50°-60°	597.4	6.9
60°-70°	406.1	4.7
70°-80°	208.2	2.4
80°-90°	53.8	0.6
90°-100°	49.0	0.6
100°-110°	179.7	2.1
110°-120°	480.4	5.5
120°-130°	793.0	9.1
130°-140°	843.3	9.7
140°-150°	783.8	9.0
150°-160°	630.2	7.2
160°-170°	406.1	4.7
170°-180°	139.8	1.6
0°-30°	1543.2	17.7
0°-40°	2388.7	27.4
0°-60°	3734.8	42.9
0°-90°	4402.9	50.6
90°-120°	709.1	8.1
90°-150°	3129.2	35.9
90°-180°	4305.0	49.4
0°-180°	8708.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1994	1994	1994	1994	1994	
5°	2227	1999	1772	1999	2227	222
15°	2737	1888	1314	1888	2737	755
25°	2281	1688	1054	1688	2281	1031
35°	1242	1386	875	1386	1242	807
45°	748	1040	719	1040	748	588
55°	526	710	556	710	526	471
65°	323	424	376	424	323	322
75°	159	200	190	200	159	170
85°	41	41	31	41	41	46
90°	29	1	29	1	29	15
95°	46	69	46	69	46	43
105°	81	323	81	323	81	84
115°	87	611	87	611	87	218
125°	909	864	909	864	909	786
135°	1104	1069	1104	1069	1104	851
145°	1260	1241	1260	1241	1260	788
155°	1367	1366	1367	1366	1367	631
165°	1436	1439	1436	1439	1436	405
175°	1464	1472	1464	1472	1464	139
180°	1469	1469	1469	1469	1469	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2086.0	2086.6	2087.8	2078.0	2076.8	2076.8	2068.2	2060.9	2052.3	2040.6	2041.9
5°	2227.0	2235.4	2238.5	2229.3	2215.5	2214.0	2201.0	2179.5	2159.6	2143.5	2132.0
7.5°	2395.3	2398.7	2391.2	2379.1	2368.8	2350.4	2326.2	2302.4	2269.2	2238.7	2216.0
10°	2522.8	2527.4	2514.4	2496.8	2482.2	2460.8	2425.5	2389.5	2345.8	2303.7	2269.9
12.5°	2619.7	2631.0	2614.3	2612.0	2587.1	2557.6	2515.6	2497.4	2435.9	2377.2	2341.1
15°	2737.4	2736.6	2738.2	2723.6	2705.2	2700.6	2656.2	2607.9	2521.3	2486.8	2427.0
17.5°	2703.4	2715.0	2720.4	2720.2	2719.8	2716.9	2702.6	2672.1	2628.7	2572.8	2503.8
20°	2622.5	2637.8	2640.1	2657.7	2667.7	2680.7	2686.1	2677.6	2650.8	2604.1	2544.3
22.5°	2497.4	2501.7	2508.9	2536.3	2557.9	2590.6	2607.6	2635.9	2625.7	2602.8	2552.9
25°	2280.7	2273.0	2299.8	2313.6	2363.4	2415.5	2453.1	2494.5	2531.3	2553.5	2538.9
27.5°	2020.4	2008.9	2049.1	2085.7	2126.2	2182.6	2241.1	2310.2	2367.7	2439.6	2464.3
30°	1800.9	1807.8	1846.1	1885.2	1946.5	2026.2	2092.1	2168.0	2250.0	2330.5	2386.4
32.5°	1564.3	1590.8	1615.0	1674.9	1728.9	1817.8	1914.3	2009.2	2111.5	2203.0	2289.6
35°	1241.5	1272.1	1305.9	1349.5	1425.4	1513.5	1607.8	1735.8	1875.3	2000.2	2102.9
37.5°	1045.0	1040.1	1059.4	1091.0	1152.4	1223.6	1332.1	1458.5	1622.7	1769.5	1914.3
40°	927.3	924.2	938.0	967.1	1013.9	1066.0	1161.0	1272.1	1424.6	1604.0	1776.4
42.5°	846.4	848.2	855.9	876.4	908.4	951.3	1022.5	1117.0	1256.7	1425.6	1610.9
45°	748.0	753.3	761.8	771.7	790.1	825.4	865.2	932.7	1043.0	1184.0	1366.4
47.5°	677.1	677.3	685.9	694.6	705.5	725.4	757.9	800.2	878.1	992.9	1149.7
50°	639.1	633.8	639.9	646.8	658.3	672.1	693.5	733.4	785.5	878.2	1009.3
52.5°	592.5	592.7	598.2	600.8	611.1	624.9	644.5	672.1	719.3	791.8	899.5
55°	525.7	529.5	532.6	537.2	546.4	556.4	571.7	590.1	626.9	681.3	761.0
57.5°	462.9	464.1	467.2	475.9	481.7	490.9	505.5	522.2	546.1	586.4	646.3
60°	420.0	420.0	426.1	429.9	437.6	446.8	458.3	474.4	495.8	528.8	577.1
62.5°	380.7	380.1	382.6	388.8	394.7	403.3	414.7	428.4	448.6	477.9	517.6
65°	323.4	321.9	326.5	328.0	334.1	342.6	351.8	366.3	382.4	403.9	439.1
67.5°	268.2	270.1	272.5	275.4	278.8	287.7	293.8	304.1	317.7	335.5	359.4
70°	237.6	237.6	237.6	239.9	244.5	249.1	255.2	263.6	276.7	292.0	313.4
72.5°	203.2	205.7	208.1	206.8	212.6	215.3	222.7	227.5	239.9	249.7	268.7
75°	159.4	159.4	159.4	163.2	165.5	167.8	172.4	177.0	183.2	195.4	205.4
77.5°	118.9	118.6	119.4	120.3	122.8	125.5	126.9	131.0	136.7	142.4	150.8
80°	92.0	93.5	94.3	95.8	95.8	97.3	98.1	103.5	107.3	111.1	116.5
82.5°	71.1	71.4	71.6	71.9	72.5	73.4	75.4	77.1	78.5	81.7	85.8
85°	41.4	40.6	40.6	42.1	41.4	41.4	42.9	44.4	44.4	45.2	47.5
87.5°	21.7	21.6	22.1	21.4	21.3	21.8	21.5	20.7	21.0	21.4	21.7
90°	28.7	28.2	27.8	27.3	26.8	26.0	24.8	23.6	22.4	21.3	19.4
92.5°	28.7	28.4	28.1	27.9	27.6	27.1	26.5	25.9	25.3	24.7	23.7
95°	45.7	45.9	46.2	46.4	46.7	46.2	45.0	43.8	42.6	41.5	39.8
97.5°	61.0	60.7	60.5	60.2	59.9	59.3	58.3	57.4	56.4	55.5	51.7
100°	71.2	70.8	70.3	69.8	69.3	68.2	66.3	64.4	62.5	60.6	56.6
102.5°	76.3	75.7	75.0	74.3	73.7	72.1	69.7	67.2	64.8	62.3	95.9
105°	80.8	79.8	78.9	78.0	77.0	75.2	72.6	70.0	67.4	64.8	129.3
107.5°	83.1	82.2	81.2	80.3	79.4	80.2	82.8	85.5	88.1	90.8	168.1
110°	84.0	83.0	82.1	81.1	80.2	91.5	115.2	138.8	162.4	186.0	254.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	84.8	84.1	83.3	82.6	81.8	124.5	210.7	296.9	383.1	469.2	486.1
115°	87.2	104.2	121.2	138.2	155.2	218.4	327.8	437.1	546.5	655.9	650.0
117.5°	355.9	411.8	467.7	523.6	579.5	620.7	647.1	673.6	700.0	726.5	722.4
120°	648.5	680.3	712.2	744.1	776.0	790.6	787.7	784.9	782.0	779.2	775.0
122.5°	809.2	815.4	821.6	827.8	833.9	836.2	834.5	832.8	831.1	829.4	824.8
125°	908.9	908.2	907.5	906.8	906.1	904.9	903.2	901.6	899.9	898.3	893.8
127.5°	971.8	971.7	971.6	971.4	971.3	970.0	967.6	965.2	962.8	960.4	957.0
130°	1011.0	1011.2	1011.4	1011.7	1011.9	1010.7	1008.1	1005.5	1002.9	1000.3	997.7
132.5°	1049.2	1049.5	1049.7	1049.9	1050.2	1049.2	1047.0	1044.7	1042.5	1040.3	1037.7
135°	1104.5	1105.0	1105.4	1105.9	1106.4	1105.4	1103.1	1100.7	1098.4	1096.0	1093.9
137.5°	1154.9	1155.7	1156.5	1157.3	1158.1	1157.3	1155.0	1152.7	1150.4	1148.1	1145.7
140°	1186.4	1187.5	1188.7	1189.9	1191.1	1190.6	1188.5	1186.4	1184.2	1182.1	1179.5
142.5°	1217.0	1218.2	1219.3	1220.5	1221.7	1221.3	1219.4	1217.4	1215.5	1213.6	1210.6
145°	1259.7	1260.9	1262.1	1263.3	1264.4	1264.2	1262.5	1260.9	1259.2	1257.6	1253.6
147.5°	1297.3	1298.3	1299.3	1300.3	1301.3	1301.2	1300.0	1298.7	1297.5	1296.3	1292.3
150°	1320.3	1321.5	1322.7	1323.8	1325.0	1324.9	1323.5	1322.1	1320.7	1319.2	1315.5
152.5°	1339.9	1341.4	1343.0	1344.5	1346.1	1346.2	1344.8	1343.3	1341.9	1340.5	1336.9
155°	1367.1	1369.0	1370.9	1372.7	1374.6	1374.9	1373.5	1372.0	1370.6	1369.2	1366.4
157.5°	1391.9	1393.8	1395.6	1397.5	1399.3	1399.4	1397.8	1396.2	1394.6	1393.0	1391.0
160°	1406.4	1408.1	1409.7	1411.4	1413.0	1413.1	1411.7	1410.3	1408.9	1407.5	1406.1
162.5°	1418.3	1420.3	1422.4	1424.4	1426.4	1426.7	1425.0	1423.4	1421.8	1420.2	1419.0
165°	1436.2	1437.8	1439.5	1441.1	1442.8	1442.8	1441.1	1439.5	1437.8	1436.2	1435.5
167.5°	1447.4	1449.6	1451.7	1453.8	1455.9	1456.2	1454.5	1452.9	1451.2	1449.6	1448.9
170°	1454.2	1456.4	1458.5	1460.6	1462.7	1463.0	1461.3	1459.7	1458.0	1456.4	1455.9
172.5°	1459.3	1461.5	1463.6	1465.7	1467.9	1468.1	1466.4	1464.8	1463.1	1461.5	1461.0
175°	1463.8	1466.2	1468.5	1470.9	1473.3	1473.6	1472.0	1470.3	1468.7	1467.0	1466.5
177.5°	1466.6	1468.3	1470.0	1471.7	1473.4	1473.6	1472.2	1470.9	1469.6	1468.3	1468.1
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2046.2	2041.3	2038.2	2027.2	2017.3	2007.5	2004.5	2005.7	1992.2	1979.3	1973.8
5°	2125.9	2110.5	2096.0	2075.3	2050.8	2023.9	2010.1	1999.4	1972.6	1943.5	1926.6
7.5°	2197.3	2175.4	2147.3	2108.4	2072.7	2030.5	2003.7	1979.9	1940.7	1899.6	1874.5
10°	2240.8	2210.9	2174.9	2127.4	2083.7	2032.4	1996.3	1960.3	1914.3	1865.3	1834.6
12.5°	2278.2	2237.9	2202.5	2141.5	2089.8	2025.6	1982.9	1932.1	1883.7	1825.4	1795.4
15°	2367.3	2292.9	2225.5	2156.5	2092.9	2003.2	1955.7	1887.5	1823.9	1751.9	1717.4
17.5°	2436.1	2352.5	2246.3	2158.7	2084.5	1985.2	1915.4	1833.7	1758.5	1676.2	1629.3
20°	2475.3	2379.5	2265.3	2161.1	2072.2	1958.8	1882.9	1799.4	1711.3	1618.5	1568.0
22.5°	2498.6	2397.9	2285.0	2151.9	2047.7	1937.3	1841.8	1750.3	1661.0	1560.9	1507.9
25°	2506.0	2414.0	2294.5	2144.3	2017.0	1892.1	1777.2	1688.3	1580.2	1486.7	1409.3
27.5°	2469.5	2403.6	2288.6	2129.8	1981.6	1835.6	1707.4	1606.7	1492.7	1391.2	1313.4
30°	2424.7	2386.4	2274.5	2115.1	1953.4	1796.3	1655.3	1541.1	1427.7	1325.0	1245.3
32.5°	2355.5	2347.2	2248.8	2094.3	1923.4	1746.7	1600.8	1485.3	1359.7	1258.8	1182.8
35°	2219.4	2256.1	2194.1	2047.7	1866.8	1676.0	1518.1	1386.3	1256.1	1159.5	1088.2
37.5°	2037.0	2128.3	2112.1	1979.5	1790.5	1599.1	1424.8	1287.0	1162.9	1065.4	995.5
40°	1911.3	2027.8	2044.6	1927.4	1736.6	1539.6	1354.9	1217.7	1096.6	1007.8	937.2
42.5°	1776.4	1912.5	1958.8	1864.8	1677.7	1477.1	1292.4	1150.3	1030.4	944.0	881.5
45°	1550.3	1730.4	1814.0	1760.3	1579.5	1374.1	1184.0	1039.9	931.1	849.9	801.6
47.5°	1339.0	1535.8	1648.1	1629.1	1470.2	1266.8	1078.9	940.6	834.7	769.9	726.7
50°	1189.4	1391.7	1527.3	1533.5	1391.7	1190.1	1001.6	871.3	774.0	713.5	678.2
52.5°	1059.4	1252.5	1400.4	1432.9	1304.0	1110.4	932.3	802.7	717.0	661.4	629.8
55°	889.7	1053.0	1217.0	1276.7	1173.3	989.4	824.6	710.4	629.9	591.6	564.0
57.5°	739.7	875.8	1027.2	1093.3	1029.5	872.1	717.6	618.4	553.2	519.6	498.4
60°	660.6	767.9	902.8	981.7	926.5	786.3	651.4	557.1	503.5	473.6	453.7
62.5°	587.0	682.1	796.1	868.3	838.2	706.0	585.2	502.0	455.7	427.6	413.2
65°	484.3	559.4	647.6	714.2	694.3	593.9	495.1	423.8	387.0	364.8	353.3
67.5°	398.8	453.1	514.2	572.6	556.5	485.4	406.0	350.5	323.1	303.9	297.0
70°	344.9	386.2	440.7	487.4	474.4	416.1	353.3	305.8	282.0	265.9	259.0
72.5°	293.4	327.4	368.9	407.1	398.3	349.9	297.5	261.6	243.4	228.5	222.9
75°	221.5	247.5	272.8	298.1	295.8	258.3	227.6	200.0	185.5	174.0	171.7
77.5°	163.5	178.1	195.3	210.3	206.1	184.7	160.6	144.8	134.1	126.4	125.2
80°	124.9	133.3	145.6	156.3	151.0	141.8	122.6	111.1	103.5	95.8	92.7
82.5°	90.6	99.0	106.4	112.2	108.1	99.5	87.7	79.9	75.3	70.0	68.8
85°	47.5	52.1	55.2	56.7	55.2	49.8	44.4	41.4	37.6	35.3	34.5
87.5°	21.9	21.5	21.1	21.9	19.6	19.0	16.1	13.7	13.6	13.5	12.8
90°	17.5	15.6	13.7	11.5	8.9	6.3	3.7	1.1	3.7	6.3	8.9
92.5°	22.8	21.8	20.9	20.5	20.8	21.0	21.2	21.5	21.2	21.0	20.8
95°	38.2	36.5	34.8	37.9	45.7	53.5	61.3	69.1	61.3	53.5	45.7
97.5°	47.8	44.0	40.2	49.3	71.2	93.2	115.2	137.1	115.2	93.2	71.2
100°	52.6	48.5	44.5	58.7	91.1	123.4	155.8	188.2	155.8	123.4	91.1
102.5°	129.5	163.1	196.7	216.9	223.7	230.6	237.4	244.3	237.4	230.6	223.7
105°	193.8	258.3	322.8	351.5	344.4	337.3	330.3	323.2	330.3	337.3	344.4
107.5°	245.5	322.8	400.2	436.0	430.2	424.5	418.8	413.1	418.8	424.5	430.2
110°	322.6	390.8	459.1	490.8	485.8	480.9	475.9	470.9	475.9	480.9	485.8



TEST NUMBER: P331456

CATALOG NUMBER: SA2XXDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	503.0	519.8	536.7	542.9	538.5	534.1	529.8	525.4	529.8	534.1	538.5
115°	644.1	638.2	632.3	627.3	623.3	619.3	615.3	611.3	615.3	619.3	623.3
117.5°	718.4	714.3	710.2	706.0	701.5	697.0	692.5	688.0	692.5	697.0	701.5
120°	770.7	766.5	762.2	758.3	754.8	751.2	747.7	744.1	747.7	751.2	754.8
122.5°	820.1	815.5	810.9	806.7	803.0	799.2	795.5	791.8	795.5	799.2	803.0
125°	889.3	884.8	880.3	876.5	873.5	870.4	867.3	864.3	867.3	870.4	873.5
127.5°	953.6	950.3	946.9	943.6	940.2	936.8	933.4	930.0	933.4	936.8	940.2
130°	995.1	992.5	989.9	986.7	983.0	979.2	975.4	971.6	975.4	979.2	983.0
132.5°	1035.1	1032.5	1029.9	1027.0	1023.8	1020.6	1017.4	1014.1	1017.4	1020.6	1023.8
135°	1091.7	1089.6	1087.5	1084.5	1080.8	1077.0	1073.2	1069.4	1073.2	1077.0	1080.8
137.5°	1143.3	1140.9	1138.4	1135.9	1133.3	1130.6	1128.0	1125.3	1128.0	1130.6	1133.3
140°	1176.9	1174.3	1171.7	1169.5	1167.6	1165.7	1163.8	1161.9	1163.8	1165.7	1167.6
142.5°	1207.6	1204.6	1201.7	1199.3	1197.6	1195.9	1194.2	1192.5	1194.2	1195.9	1197.6
145°	1249.5	1245.5	1241.5	1239.6	1239.9	1240.1	1240.3	1240.6	1240.3	1240.1	1239.9
147.5°	1288.3	1284.4	1280.4	1278.9	1279.8	1280.7	1281.6	1282.5	1281.6	1280.7	1279.8
150°	1311.7	1307.9	1304.1	1303.1	1304.7	1306.4	1308.0	1309.7	1308.0	1306.4	1304.7
152.5°	1333.3	1329.7	1326.1	1325.3	1327.1	1328.9	1330.8	1332.6	1330.8	1328.9	1327.1
155°	1363.5	1360.7	1357.9	1357.5	1359.6	1361.8	1363.9	1366.0	1363.9	1361.8	1359.6
157.5°	1389.0	1387.1	1385.1	1385.0	1386.8	1388.6	1390.4	1392.2	1390.4	1388.6	1386.8
160°	1404.6	1403.2	1401.8	1401.8	1403.2	1404.6	1406.1	1407.5	1406.1	1404.6	1403.2
162.5°	1417.8	1416.5	1415.3	1415.4	1416.8	1418.2	1419.7	1421.1	1419.7	1418.2	1416.8
165°	1434.8	1434.0	1433.3	1433.7	1435.1	1436.5	1437.9	1439.4	1437.9	1436.5	1435.1
167.5°	1448.2	1447.6	1446.9	1447.3	1448.7	1450.1	1451.6	1453.0	1451.6	1450.1	1448.7
170°	1455.4	1455.0	1454.5	1455.0	1456.4	1457.8	1459.2	1460.6	1459.2	1457.8	1456.4
172.5°	1460.5	1460.1	1459.6	1460.1	1461.5	1462.9	1464.3	1465.7	1464.3	1462.9	1461.5
175°	1466.1	1465.6	1465.1	1465.7	1467.4	1469.0	1470.7	1472.3	1470.7	1469.0	1467.4
177.5°	1467.9	1467.7	1467.5	1468.1	1469.4	1470.7	1472.1	1473.4	1472.1	1470.7	1469.4
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



TEST NUMBER: P331456

CATALOG NUMBER: SA2XXDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1967.7	1964.0	1951.1	1944.4	1933.4	1922.9	1916.2	1919.3	1921.7	1920.5	1918.6
5°	1911.3	1896.7	1874.5	1855.3	1841.5	1816.3	1805.5	1800.2	1795.6	1790.2	1784.8
7.5°	1844.1	1821.2	1789.3	1762.0	1736.2	1704.8	1686.9	1676.2	1665.1	1653.0	1642.3
10°	1796.3	1764.1	1730.4	1692.1	1661.5	1633.1	1607.8	1590.9	1575.6	1561.1	1550.3
12.5°	1746.1	1709.0	1667.3	1614.9	1581.1	1540.5	1536.7	1507.0	1483.0	1474.0	1461.4
15°	1666.0	1613.9	1561.1	1499.0	1472.2	1435.4	1412.4	1389.4	1368.7	1354.1	1350.3
17.5°	1575.2	1507.7	1455.1	1410.5	1366.6	1328.9	1307.7	1289.3	1272.3	1252.8	1250.2
20°	1505.9	1447.6	1390.2	1351.1	1305.9	1267.5	1241.5	1223.1	1208.5	1197.0	1187.1
22.5°	1440.3	1376.5	1323.9	1281.2	1236.6	1205.6	1185.1	1167.3	1155.2	1142.5	1133.1
25°	1335.0	1285.2	1227.7	1179.4	1142.6	1122.7	1105.8	1090.5	1082.9	1074.4	1063.7
27.5°	1242.9	1187.5	1133.7	1096.3	1064.0	1046.4	1034.4	1024.0	1016.8	1011.9	1005.8
30°	1177.9	1121.9	1079.8	1043.0	1016.2	998.6	990.9	984.8	976.3	973.3	970.2
32.5°	1115.3	1064.9	1028.9	997.0	971.4	959.9	952.9	947.4	940.8	937.7	931.6
35°	1026.9	984.8	949.5	931.9	911.2	901.2	895.9	888.2	882.1	879.0	878.2
37.5°	943.7	907.1	883.9	861.2	852.5	846.4	839.0	833.8	832.0	831.5	830.7
40°	889.7	859.8	839.2	820.8	816.9	807.7	801.6	797.0	797.0	797.8	797.0
42.5°	840.7	813.9	795.6	779.7	775.2	769.7	763.6	763.3	764.5	767.1	764.5
45°	766.4	747.2	734.2	726.5	718.1	712.7	711.9	714.2	715.0	715.8	718.1
47.5°	698.0	685.3	673.5	665.0	661.4	660.4	659.5	663.5	667.2	668.6	672.1
50°	657.5	643.0	633.0	627.6	624.6	623.0	624.6	629.2	632.2	636.1	638.4
52.5°	612.2	601.9	595.0	590.9	589.6	590.6	590.9	596.1	601.0	602.4	603.4
55°	549.5	541.8	540.3	533.4	536.4	535.7	539.5	542.6	547.2	551.8	552.5
57.5°	486.9	480.8	476.7	477.3	478.2	481.6	484.8	490.2	495.1	500.0	500.4
60°	445.3	442.2	439.9	439.9	441.4	446.0	449.8	455.2	458.3	461.3	463.6
62.5°	407.2	404.2	401.9	403.1	407.1	409.8	414.3	417.2	420.3	423.3	424.4
65°	347.2	345.6	347.9	349.5	350.2	354.1	359.4	361.7	364.8	366.3	371.7
67.5°	291.8	292.1	291.8	294.0	298.4	299.3	304.4	309.8	310.4	313.3	316.8
70°	254.4	256.0	257.5	259.0	262.9	264.4	268.2	270.5	273.6	275.9	278.2
72.5°	220.1	220.4	221.9	221.6	224.8	228.2	231.4	233.7	236.8	239.7	242.0
75°	169.4	169.4	170.9	171.7	175.5	179.3	178.6	180.1	183.2	186.2	187.8
77.5°	123.7	122.0	123.7	124.5	125.7	128.9	129.5	131.7	135.2	134.1	135.8
80°	94.3	92.0	94.3	95.0	95.0	98.9	98.9	100.4	102.7	100.4	102.7
82.5°	67.3	66.2	67.9	68.1	69.3	69.4	70.7	71.0	73.3	72.2	73.3
85°	33.7	33.0	33.7	33.0	33.7	34.5	34.5	33.7	33.7	35.3	33.0
87.5°	12.7	12.5	12.3	12.7	12.5	12.2	11.8	12.1	12.3	11.3	11.5
90°	11.5	13.7	15.6	17.5	19.4	21.3	22.4	23.6	24.8	26.0	26.8
92.5°	20.5	20.9	21.8	22.8	23.7	24.7	25.3	25.9	26.5	27.1	27.6
95°	37.9	34.8	36.5	38.2	39.8	41.5	42.6	43.8	45.0	46.2	46.7
97.5°	49.3	40.2	44.0	47.8	51.7	55.5	56.4	57.4	58.3	59.3	59.9
100°	58.7	44.5	48.5	52.6	56.6	60.6	62.5	64.4	66.3	68.2	69.3
102.5°	216.9	196.7	163.1	129.5	95.9	62.3	64.8	67.2	69.7	72.1	73.7
105°	351.5	322.8	258.3	193.8	129.3	64.8	67.4	70.0	72.6	75.2	77.0
107.5°	436.0	400.2	322.8	245.5	168.1	90.8	88.1	85.5	82.8	80.2	79.4
110°	490.8	459.1	390.8	322.6	254.3	186.0	162.4	138.8	115.2	91.5	80.2



TEST NUMBER: P331456

CATALOG NUMBER: SA2XXDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	542.9	536.7	519.8	503.0	486.1	469.2	383.1	296.9	210.7	124.5	81.8
115°	627.3	632.3	638.2	644.1	650.0	655.9	546.5	437.1	327.8	218.4	155.2
117.5°	706.0	710.2	714.3	718.4	722.4	726.5	700.0	673.6	647.1	620.7	579.5
120°	758.3	762.2	766.5	770.7	775.0	779.2	782.0	784.9	787.7	790.6	776.0
122.5°	806.7	810.9	815.5	820.1	824.8	829.4	831.1	832.8	834.5	836.2	833.9
125°	876.5	880.3	884.8	889.3	893.8	898.3	899.9	901.6	903.2	904.9	906.1
127.5°	943.6	946.9	950.3	953.6	957.0	960.4	962.8	965.2	967.6	970.0	971.3
130°	986.7	989.9	992.5	995.1	997.7	1000.3	1002.9	1005.5	1008.1	1010.7	1011.9
132.5°	1027.0	1029.9	1032.5	1035.1	1037.7	1040.3	1042.5	1044.7	1047.0	1049.2	1050.2
135°	1084.5	1087.5	1089.6	1091.7	1093.9	1096.0	1098.4	1100.7	1103.1	1105.4	1106.4
137.5°	1135.9	1138.4	1140.9	1143.3	1145.7	1148.1	1150.4	1152.7	1155.0	1157.3	1158.1
140°	1169.5	1171.7	1174.3	1176.9	1179.5	1182.1	1184.2	1186.4	1188.5	1190.6	1191.1
142.5°	1199.3	1201.7	1204.6	1207.6	1210.6	1213.6	1215.5	1217.4	1219.4	1221.3	1221.7
145°	1239.6	1241.5	1245.5	1249.5	1253.6	1257.6	1259.2	1260.9	1262.5	1264.2	1264.4
147.5°	1278.9	1280.4	1284.4	1288.3	1292.3	1296.3	1297.5	1298.7	1300.0	1301.2	1301.3
150°	1303.1	1304.1	1307.9	1311.7	1315.5	1319.2	1320.7	1322.1	1323.5	1324.9	1325.0
152.5°	1325.3	1326.1	1329.7	1333.3	1336.9	1340.5	1341.9	1343.3	1344.8	1346.2	1346.1
155°	1357.5	1357.9	1360.7	1363.5	1366.4	1369.2	1370.6	1372.0	1373.5	1374.9	1374.6
157.5°	1385.0	1385.1	1387.1	1389.0	1391.0	1393.0	1394.6	1396.2	1397.8	1399.4	1399.3
160°	1401.8	1401.8	1403.2	1404.6	1406.1	1407.5	1408.9	1410.3	1411.7	1413.1	1413.0
162.5°	1415.4	1415.3	1416.5	1417.8	1419.0	1420.2	1421.8	1423.4	1425.0	1426.7	1426.4
165°	1433.7	1433.3	1434.0	1434.8	1435.5	1436.2	1437.8	1439.5	1441.1	1442.8	1442.8
167.5°	1447.3	1446.9	1447.6	1448.2	1448.9	1449.6	1451.2	1452.9	1454.5	1456.2	1455.9
170°	1455.0	1454.5	1455.0	1455.4	1455.9	1456.4	1458.0	1459.7	1461.3	1463.0	1462.7
172.5°	1460.1	1459.6	1460.1	1460.5	1461.0	1461.5	1463.1	1464.8	1466.4	1468.1	1467.9
175°	1465.7	1465.1	1465.6	1466.1	1466.5	1467.0	1468.7	1470.3	1472.0	1473.6	1473.3
177.5°	1468.1	1467.5	1467.7	1467.9	1468.1	1468.3	1469.6	1470.9	1472.2	1473.6	1473.4
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



TEST NUMBER: P331456

CATALOG NUMBER: SA2XXDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1912.5	1911.3	1911.3	1905.8	1911.3	1911.3	1912.5	1918.6	1920.5	1921.7	1919.3
5°	1774.1	1771.8	1768.0	1771.8	1768.0	1771.8	1774.1	1784.8	1790.2	1795.6	1800.2
7.5°	1637.2	1628.0	1626.7	1617.6	1626.7	1628.0	1637.2	1642.3	1653.0	1665.1	1676.2
10°	1537.3	1531.2	1530.4	1515.8	1530.4	1531.2	1537.3	1550.3	1561.1	1575.6	1590.9
12.5°	1461.3	1446.6	1449.5	1441.0	1449.5	1446.6	1461.3	1461.4	1474.0	1483.0	1507.0
15°	1329.6	1329.6	1326.6	1313.5	1326.6	1329.6	1329.6	1350.3	1354.1	1368.7	1389.4
17.5°	1235.1	1233.5	1226.2	1229.8	1226.2	1233.5	1235.1	1250.2	1252.8	1272.3	1289.3
20°	1178.6	1174.1	1164.9	1164.9	1164.9	1174.1	1178.6	1187.1	1197.0	1208.5	1223.1
22.5°	1125.3	1125.0	1115.2	1118.3	1115.2	1125.0	1125.3	1133.1	1142.5	1155.2	1167.3
25°	1062.9	1056.8	1052.2	1054.5	1052.2	1056.8	1062.9	1063.7	1074.4	1082.9	1090.5
27.5°	1003.8	1000.4	1000.1	993.8	1000.1	1000.4	1003.8	1005.8	1011.9	1016.8	1024.0
30°	969.4	961.8	963.3	959.5	963.3	961.8	969.4	970.2	973.3	976.3	984.8
32.5°	930.2	927.4	925.9	922.7	925.9	927.4	930.2	931.6	937.7	940.8	947.4
35°	876.7	877.5	873.6	875.2	873.6	877.5	876.7	878.2	879.0	882.1	888.2
37.5°	830.0	832.4	830.6	831.0	830.6	832.4	830.0	830.7	831.5	832.0	833.8
40°	799.3	799.3	799.3	801.6	799.3	799.3	799.3	797.0	797.8	797.0	797.0
42.5°	769.9	768.7	767.4	767.3	767.4	768.7	769.9	764.5	767.1	764.5	763.3
45°	719.6	721.9	722.7	718.8	722.7	721.9	719.6	718.1	715.8	715.0	714.2
47.5°	674.1	674.4	674.1	677.5	674.1	674.4	674.1	672.1	668.6	667.2	663.5
50°	642.2	640.7	642.2	640.7	642.2	640.7	642.2	638.4	636.1	632.2	629.2
52.5°	608.5	608.8	607.9	607.6	607.9	608.8	608.5	603.4	602.4	601.0	596.1
55°	555.6	557.1	556.4	556.4	556.4	557.1	555.6	552.5	551.8	547.2	542.6
57.5°	500.9	502.3	503.3	500.0	503.3	502.3	500.9	500.4	500.0	495.1	490.2
60°	462.9	466.7	465.9	464.4	465.9	466.7	462.9	463.6	461.3	458.3	455.2
62.5°	427.9	429.3	429.2	428.9	429.2	429.3	427.9	424.4	423.3	420.3	417.2
65°	374.0	375.5	373.2	375.5	373.2	375.5	374.0	371.7	366.3	364.8	361.7
67.5°	315.9	316.4	318.0	319.1	318.0	316.4	315.9	316.8	313.3	310.4	309.8
70°	279.7	279.0	281.3	283.6	281.3	279.0	279.7	278.2	275.9	273.6	270.5
72.5°	241.7	243.4	242.6	244.3	242.6	243.4	241.7	242.0	239.7	236.8	233.7
75°	186.2	188.5	187.8	190.1	187.8	188.5	186.2	187.8	186.2	183.2	180.1
77.5°	134.6	134.9	134.6	135.8	134.6	134.9	134.6	135.8	134.1	135.2	131.7
80°	102.7	101.2	99.6	102.7	99.6	101.2	102.7	102.7	100.4	102.7	100.4
82.5°	71.4	72.3	70.8	70.8	70.8	72.3	71.4	73.3	72.2	73.3	71.0
85°	33.0	32.2	30.7	30.7	30.7	32.2	33.0	33.0	35.3	33.7	33.7
87.5°	11.6	11.1	11.2	10.6	11.2	11.1	11.6	11.5	11.3	12.3	12.1
90°	27.3	27.8	28.2	28.7	28.2	27.8	27.3	26.8	26.0	24.8	23.6
92.5°	27.9	28.1	28.4	28.7	28.4	28.1	27.9	27.6	27.1	26.5	25.9
95°	46.4	46.2	45.9	45.7	45.9	46.2	46.4	46.7	46.2	45.0	43.8
97.5°	60.2	60.5	60.7	61.0	60.7	60.5	60.2	59.9	59.3	58.3	57.4
100°	69.8	70.3	70.8	71.2	70.8	70.3	69.8	69.3	68.2	66.3	64.4
102.5°	74.3	75.0	75.7	76.3	75.7	75.0	74.3	73.7	72.1	69.7	67.2
105°	78.0	78.9	79.8	80.8	79.8	78.9	78.0	77.0	75.2	72.6	70.0
107.5°	80.3	81.2	82.2	83.1	82.2	81.2	80.3	79.4	80.2	82.8	85.5
110°	81.1	82.1	83.0	84.0	83.0	82.1	81.1	80.2	91.5	115.2	138.8



TEST NUMBER: P331456

CATALOG NUMBER: SA2XXDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	82.6	83.3	84.1	84.8	84.1	83.3	82.6	81.8	124.5	210.7	296.9
115°	138.2	121.2	104.2	87.2	104.2	121.2	138.2	155.2	218.4	327.8	437.1
117.5°	523.6	467.7	411.8	355.9	411.8	467.7	523.6	579.5	620.7	647.1	673.6
120°	744.1	712.2	680.3	648.5	680.3	712.2	744.1	776.0	790.6	787.7	784.9
122.5°	827.8	821.6	815.4	809.2	815.4	821.6	827.8	833.9	836.2	834.5	832.8
125°	906.8	907.5	908.2	908.9	908.2	907.5	906.8	906.1	904.9	903.2	901.6
127.5°	971.4	971.6	971.7	971.8	971.7	971.6	971.4	971.3	970.0	967.6	965.2
130°	1011.7	1011.4	1011.2	1011.0	1011.2	1011.4	1011.7	1011.9	1010.7	1008.1	1005.5
132.5°	1049.9	1049.7	1049.5	1049.2	1049.5	1049.7	1049.9	1050.2	1049.2	1047.0	1044.7
135°	1105.9	1105.4	1105.0	1104.5	1105.0	1105.4	1105.9	1106.4	1105.4	1103.1	1100.7
137.5°	1157.3	1156.5	1155.7	1154.9	1155.7	1156.5	1157.3	1158.1	1157.3	1155.0	1152.7
140°	1189.9	1188.7	1187.5	1186.4	1187.5	1188.7	1189.9	1191.1	1190.6	1188.5	1186.4
142.5°	1220.5	1219.3	1218.2	1217.0	1218.2	1219.3	1220.5	1221.7	1221.3	1219.4	1217.4
145°	1263.3	1262.1	1260.9	1259.7	1260.9	1262.1	1263.3	1264.4	1264.2	1262.5	1260.9
147.5°	1300.3	1299.3	1298.3	1297.3	1298.3	1299.3	1300.3	1301.3	1301.2	1300.0	1298.7
150°	1323.8	1322.7	1321.5	1320.3	1321.5	1322.7	1323.8	1325.0	1324.9	1323.5	1322.1
152.5°	1344.5	1343.0	1341.4	1339.9	1341.4	1343.0	1344.5	1346.1	1346.2	1344.8	1343.3
155°	1372.7	1370.9	1369.0	1367.1	1369.0	1370.9	1372.7	1374.6	1374.9	1373.5	1372.0
157.5°	1397.5	1395.6	1393.8	1391.9	1393.8	1395.6	1397.5	1399.3	1399.4	1397.8	1396.2
160°	1411.4	1409.7	1408.1	1406.4	1408.1	1409.7	1411.4	1413.0	1413.1	1411.7	1410.3
162.5°	1424.4	1422.4	1420.3	1418.3	1420.3	1422.4	1424.4	1426.4	1426.7	1425.0	1423.4
165°	1441.1	1439.5	1437.8	1436.2	1437.8	1439.5	1441.1	1442.8	1442.8	1441.1	1439.5
167.5°	1453.8	1451.7	1449.6	1447.4	1449.6	1451.7	1453.8	1455.9	1456.2	1454.5	1452.9
170°	1460.6	1458.5	1456.4	1454.2	1456.4	1458.5	1460.6	1462.7	1463.0	1461.3	1459.7
172.5°	1465.7	1463.6	1461.5	1459.3	1461.5	1463.6	1465.7	1467.9	1468.1	1466.4	1464.8
175°	1470.9	1468.5	1466.2	1463.8	1466.2	1468.5	1470.9	1473.3	1473.6	1472.0	1470.3
177.5°	1471.7	1470.0	1468.3	1466.6	1468.3	1470.0	1471.7	1473.4	1473.6	1472.2	1470.9
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1916.2	1922.9	1933.4	1944.4	1951.1	1964.0	1967.7	1973.8	1979.3	1992.2	2005.7
5°	1805.5	1816.3	1841.5	1855.3	1874.5	1896.7	1911.3	1926.6	1943.5	1972.6	1999.4
7.5°	1686.9	1704.8	1736.2	1762.0	1789.3	1821.2	1844.1	1874.5	1899.6	1940.7	1979.9
10°	1607.8	1633.1	1661.5	1692.1	1730.4	1764.1	1796.3	1834.6	1865.3	1914.3	1960.3
12.5°	1536.7	1540.5	1581.1	1614.9	1667.3	1709.0	1746.1	1795.4	1825.4	1883.7	1932.1
15°	1412.4	1435.4	1472.2	1499.0	1561.1	1613.9	1666.0	1717.4	1751.9	1823.9	1887.5
17.5°	1307.7	1328.9	1366.6	1410.5	1455.1	1507.7	1575.2	1629.3	1676.2	1758.5	1833.7
20°	1241.5	1267.5	1305.9	1351.1	1390.2	1447.6	1505.9	1568.0	1618.5	1711.3	1799.4
22.5°	1185.1	1205.6	1236.6	1281.2	1323.9	1376.5	1440.3	1507.9	1560.9	1661.0	1750.3
25°	1105.8	1122.7	1142.6	1179.4	1227.7	1285.2	1335.0	1409.3	1486.7	1580.2	1688.3
27.5°	1034.4	1046.4	1064.0	1096.3	1133.7	1187.5	1242.9	1313.4	1391.2	1492.7	1606.7
30°	990.9	998.6	1016.2	1043.0	1079.8	1121.9	1177.9	1245.3	1325.0	1427.7	1541.1
32.5°	952.9	959.9	971.4	997.0	1028.9	1064.9	1115.3	1182.8	1258.8	1359.7	1485.3
35°	895.9	901.2	911.2	931.9	949.5	984.8	1026.9	1088.2	1159.5	1256.1	1386.3
37.5°	839.0	846.4	852.5	861.2	883.9	907.1	943.7	995.5	1065.4	1162.9	1287.0
40°	801.6	807.7	816.9	820.8	839.2	859.8	889.7	937.2	1007.8	1096.6	1217.7
42.5°	763.6	769.7	775.2	779.7	795.6	813.9	840.7	881.5	944.0	1030.4	1150.3
45°	711.9	712.7	718.1	726.5	734.2	747.2	766.4	801.6	849.9	931.1	1039.9
47.5°	659.5	660.4	661.4	665.0	673.5	685.3	698.0	726.7	769.9	834.7	940.6
50°	624.6	623.0	624.6	627.6	633.0	643.0	657.5	678.2	713.5	774.0	871.3
52.5°	590.9	590.6	589.6	590.9	595.0	601.9	612.2	629.8	661.4	717.0	802.7
55°	539.5	535.7	536.4	533.4	540.3	541.8	549.5	564.0	591.6	629.9	710.4
57.5°	484.8	481.6	478.2	477.3	476.7	480.8	486.9	498.4	519.6	553.2	618.4
60°	449.8	446.0	441.4	439.9	439.9	442.2	445.3	453.7	473.6	503.5	557.1
62.5°	414.3	409.8	407.1	403.1	401.9	404.2	407.2	413.2	427.6	455.7	502.0
65°	359.4	354.1	350.2	349.5	347.9	345.6	347.2	353.3	364.8	387.0	423.8
67.5°	304.4	299.3	298.4	294.0	291.8	292.1	291.8	297.0	303.9	323.1	350.5
70°	268.2	264.4	262.9	259.0	257.5	256.0	254.4	259.0	265.9	282.0	305.8
72.5°	231.4	228.2	224.8	221.6	221.9	220.4	220.1	222.9	228.5	243.4	261.6
75°	178.6	179.3	175.5	171.7	170.9	169.4	169.4	171.7	174.0	185.5	200.0
77.5°	129.5	128.9	125.7	124.5	123.7	122.0	123.7	125.2	126.4	134.1	144.8
80°	98.9	98.9	95.0	95.0	94.3	92.0	94.3	92.7	95.8	103.5	111.1
82.5°	70.7	69.4	69.3	68.1	67.9	66.2	67.3	68.8	70.0	75.3	79.9
85°	34.5	34.5	33.7	33.0	33.7	33.0	33.7	34.5	35.3	37.6	41.4
87.5°	11.8	12.2	12.5	12.7	12.3	12.5	12.7	12.8	13.5	13.6	13.7
90°	22.4	21.3	19.4	17.5	15.6	13.7	11.5	8.9	6.3	3.7	1.1
92.5°	25.3	24.7	23.7	22.8	21.8	20.9	20.5	20.8	21.0	21.2	21.5
95°	42.6	41.5	39.8	38.2	36.5	34.8	37.9	45.7	53.5	61.3	69.1
97.5°	56.4	55.5	51.7	47.8	44.0	40.2	49.3	71.2	93.2	115.2	137.1
100°	62.5	60.6	56.6	52.6	48.5	44.5	58.7	91.1	123.4	155.8	188.2
102.5°	64.8	62.3	95.9	129.5	163.1	196.7	216.9	223.7	230.6	237.4	244.3
105°	67.4	64.8	129.3	193.8	258.3	322.8	351.5	344.4	337.3	330.3	323.2
107.5°	88.1	90.8	168.1	245.5	322.8	400.2	436.0	430.2	424.5	418.8	413.1
110°	162.4	186.0	254.3	322.6	390.8	459.1	490.8	485.8	480.9	475.9	470.9



TEST NUMBER: P331456

CATALOG NUMBER: SA2XXDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	383.1	469.2	486.1	503.0	519.8	536.7	542.9	538.5	534.1	529.8	525.4
115°	546.5	655.9	650.0	644.1	638.2	632.3	627.3	623.3	619.3	615.3	611.3
117.5°	700.0	726.5	722.4	718.4	714.3	710.2	706.0	701.5	697.0	692.5	688.0
120°	782.0	779.2	775.0	770.7	766.5	762.2	758.3	754.8	751.2	747.7	744.1
122.5°	831.1	829.4	824.8	820.1	815.5	810.9	806.7	803.0	799.2	795.5	791.8
125°	899.9	898.3	893.8	889.3	884.8	880.3	876.5	873.5	870.4	867.3	864.3
127.5°	962.8	960.4	957.0	953.6	950.3	946.9	943.6	940.2	936.8	933.4	930.0
130°	1002.9	1000.3	997.7	995.1	992.5	989.9	986.7	983.0	979.2	975.4	971.6
132.5°	1042.5	1040.3	1037.7	1035.1	1032.5	1029.9	1027.0	1023.8	1020.6	1017.4	1014.1
135°	1098.4	1096.0	1093.9	1091.7	1089.6	1087.5	1084.5	1080.8	1077.0	1073.2	1069.4
137.5°	1150.4	1148.1	1145.7	1143.3	1140.9	1138.4	1135.9	1133.3	1130.6	1128.0	1125.3
140°	1184.2	1182.1	1179.5	1176.9	1174.3	1171.7	1169.5	1167.6	1165.7	1163.8	1161.9
142.5°	1215.5	1213.6	1210.6	1207.6	1204.6	1201.7	1199.3	1197.6	1195.9	1194.2	1192.5
145°	1259.2	1257.6	1253.6	1249.5	1245.5	1241.5	1239.6	1239.9	1240.1	1240.3	1240.6
147.5°	1297.5	1296.3	1292.3	1288.3	1284.4	1280.4	1278.9	1279.8	1280.7	1281.6	1282.5
150°	1320.7	1319.2	1315.5	1311.7	1307.9	1304.1	1303.1	1304.7	1306.4	1308.0	1309.7
152.5°	1341.9	1340.5	1336.9	1333.3	1329.7	1326.1	1325.3	1327.1	1328.9	1330.8	1332.6
155°	1370.6	1369.2	1366.4	1363.5	1360.7	1357.9	1357.5	1359.6	1361.8	1363.9	1366.0
157.5°	1394.6	1393.0	1391.0	1389.0	1387.1	1385.1	1385.0	1386.8	1388.6	1390.4	1392.2
160°	1408.9	1407.5	1406.1	1404.6	1403.2	1401.8	1401.8	1403.2	1404.6	1406.1	1407.5
162.5°	1421.8	1420.2	1419.0	1417.8	1416.5	1415.3	1415.4	1416.8	1418.2	1419.7	1421.1
165°	1437.8	1436.2	1435.5	1434.8	1434.0	1433.3	1433.7	1435.1	1436.5	1437.9	1439.4
167.5°	1451.2	1449.6	1448.9	1448.2	1447.6	1446.9	1447.3	1448.7	1450.1	1451.6	1453.0
170°	1458.0	1456.4	1455.9	1455.4	1455.0	1454.5	1455.0	1456.4	1457.8	1459.2	1460.6
172.5°	1463.1	1461.5	1461.0	1460.5	1460.1	1459.6	1460.1	1461.5	1462.9	1464.3	1465.7
175°	1468.7	1467.0	1466.5	1466.1	1465.6	1465.1	1465.7	1467.4	1469.0	1470.7	1472.3
177.5°	1469.6	1468.3	1468.1	1467.9	1467.7	1467.5	1468.1	1469.4	1470.7	1472.1	1473.4
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



TEST NUMBER: P331456

CATALOG NUMBER: SA2XXDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2004.5	2007.5	2017.3	2027.2	2038.2	2041.3	2046.2	2041.9	2040.6	2052.3	2060.9
5°	2010.1	2023.9	2050.8	2075.3	2096.0	2110.5	2125.9	2132.0	2143.5	2159.6	2179.5
7.5°	2003.7	2030.5	2072.7	2108.4	2147.3	2175.4	2197.3	2216.0	2238.7	2269.2	2302.4
10°	1996.3	2032.4	2083.7	2127.4	2174.9	2210.9	2240.8	2269.9	2303.7	2345.8	2389.5
12.5°	1982.9	2025.6	2089.8	2141.5	2202.5	2237.9	2278.2	2341.1	2377.2	2435.9	2497.4
15°	1955.7	2003.2	2092.9	2156.5	2225.5	2292.9	2367.3	2427.0	2486.8	2521.3	2607.9
17.5°	1915.4	1985.2	2084.5	2158.7	2246.3	2352.5	2436.1	2503.8	2572.8	2628.7	2672.1
20°	1882.9	1958.8	2072.2	2161.1	2265.3	2379.5	2475.3	2544.3	2604.1	2650.8	2677.6
22.5°	1841.8	1937.3	2047.7	2151.9	2285.0	2397.9	2498.6	2552.9	2602.8	2625.7	2635.9
25°	1777.2	1892.1	2017.0	2144.3	2294.5	2414.0	2506.0	2538.9	2553.5	2531.3	2494.5
27.5°	1707.4	1835.6	1981.6	2129.8	2288.6	2403.6	2469.5	2464.3	2439.6	2367.7	2310.2
30°	1655.3	1796.3	1953.4	2115.1	2274.5	2386.4	2424.7	2386.4	2330.5	2250.0	2168.0
32.5°	1600.8	1746.7	1923.4	2094.3	2248.8	2347.2	2355.5	2289.6	2203.0	2111.5	2009.2
35°	1518.1	1676.0	1866.8	2047.7	2194.1	2256.1	2219.4	2102.9	2000.2	1875.3	1735.8
37.5°	1424.8	1599.1	1790.5	1979.5	2112.1	2128.3	2037.0	1914.3	1769.5	1622.7	1458.5
40°	1354.9	1539.6	1736.6	1927.4	2044.6	2027.8	1911.3	1776.4	1604.0	1424.6	1272.1
42.5°	1292.4	1477.1	1677.7	1864.8	1958.8	1912.5	1776.4	1610.9	1425.6	1256.7	1117.0
45°	1184.0	1374.1	1579.5	1760.3	1814.0	1730.4	1550.3	1366.4	1184.0	1043.0	932.7
47.5°	1078.9	1266.8	1470.2	1629.1	1648.1	1535.8	1339.0	1149.7	992.9	878.1	800.2
50°	1001.6	1190.1	1391.7	1533.5	1527.3	1391.7	1189.4	1009.3	878.2	785.5	733.4
52.5°	932.3	1110.4	1304.0	1432.9	1400.4	1252.5	1059.4	899.5	791.8	719.3	672.1
55°	824.6	989.4	1173.3	1276.7	1217.0	1053.0	889.7	761.0	681.3	626.9	590.1
57.5°	717.6	872.1	1029.5	1093.3	1027.2	875.8	739.7	646.3	586.4	546.1	522.2
60°	651.4	786.3	926.5	981.7	902.8	767.9	660.6	577.1	528.8	495.8	474.4
62.5°	585.2	706.0	838.2	868.3	796.1	682.1	587.0	517.6	477.9	448.6	428.4
65°	495.1	593.9	694.3	714.2	647.6	559.4	484.3	439.1	403.9	382.4	366.3
67.5°	406.0	485.4	556.5	572.6	514.2	453.1	398.8	359.4	335.5	317.7	304.1
70°	353.3	416.1	474.4	487.4	440.7	386.2	344.9	313.4	292.0	276.7	263.6
72.5°	297.5	349.9	398.3	407.1	368.9	327.4	293.4	268.7	249.7	239.9	227.5
75°	227.6	258.3	295.8	298.1	272.8	247.5	221.5	205.4	195.4	183.2	177.0
77.5°	160.6	184.7	206.1	210.3	195.3	178.1	163.5	150.8	142.4	136.7	131.0
80°	122.6	141.8	151.0	156.3	145.6	133.3	124.9	116.5	111.1	107.3	103.5
82.5°	87.7	99.5	108.1	112.2	106.4	99.0	90.6	85.8	81.7	78.5	77.1
85°	44.4	49.8	55.2	56.7	55.2	52.1	47.5	47.5	45.2	44.4	44.4
87.5°	16.1	19.0	19.6	21.9	21.1	21.5	21.9	21.7	21.4	21.0	20.7
90°	3.7	6.3	8.9	11.5	13.7	15.6	17.5	19.4	21.3	22.4	23.6
92.5°	21.2	21.0	20.8	20.5	20.9	21.8	22.8	23.7	24.7	25.3	25.9
95°	61.3	53.5	45.7	37.9	34.8	36.5	38.2	39.8	41.5	42.6	43.8
97.5°	115.2	93.2	71.2	49.3	40.2	44.0	47.8	51.7	55.5	56.4	57.4
100°	155.8	123.4	91.1	58.7	44.5	48.5	52.6	56.6	60.6	62.5	64.4
102.5°	237.4	230.6	223.7	216.9	196.7	163.1	129.5	95.9	62.3	64.8	67.2
105°	330.3	337.3	344.4	351.5	322.8	258.3	193.8	129.3	64.8	67.4	70.0
107.5°	418.8	424.5	430.2	436.0	400.2	322.8	245.5	168.1	90.8	88.1	85.5
110°	475.9	480.9	485.8	490.8	459.1	390.8	322.6	254.3	186.0	162.4	138.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	529.8	534.1	538.5	542.9	536.7	519.8	503.0	486.1	469.2	383.1	296.9
115°	615.3	619.3	623.3	627.3	632.3	638.2	644.1	650.0	655.9	546.5	437.1
117.5°	692.5	697.0	701.5	706.0	710.2	714.3	718.4	722.4	726.5	700.0	673.6
120°	747.7	751.2	754.8	758.3	762.2	766.5	770.7	775.0	779.2	782.0	784.9
122.5°	795.5	799.2	803.0	806.7	810.9	815.5	820.1	824.8	829.4	831.1	832.8
125°	867.3	870.4	873.5	876.5	880.3	884.8	889.3	893.8	898.3	899.9	901.6
127.5°	933.4	936.8	940.2	943.6	946.9	950.3	953.6	957.0	960.4	962.8	965.2
130°	975.4	979.2	983.0	986.7	989.9	992.5	995.1	997.7	1000.3	1002.9	1005.5
132.5°	1017.4	1020.6	1023.8	1027.0	1029.9	1032.5	1035.1	1037.7	1040.3	1042.5	1044.7
135°	1073.2	1077.0	1080.8	1084.5	1087.5	1089.6	1091.7	1093.9	1096.0	1098.4	1100.7
137.5°	1128.0	1130.6	1133.3	1135.9	1138.4	1140.9	1143.3	1145.7	1148.1	1150.4	1152.7
140°	1163.8	1165.7	1167.6	1169.5	1171.7	1174.3	1176.9	1179.5	1182.1	1184.2	1186.4
142.5°	1194.2	1195.9	1197.6	1199.3	1201.7	1204.6	1207.6	1210.6	1213.6	1215.5	1217.4
145°	1240.3	1240.1	1239.9	1239.6	1241.5	1245.5	1249.5	1253.6	1257.6	1259.2	1260.9
147.5°	1281.6	1280.7	1279.8	1278.9	1280.4	1284.4	1288.3	1292.3	1296.3	1297.5	1298.7
150°	1308.0	1306.4	1304.7	1303.1	1304.1	1307.9	1311.7	1315.5	1319.2	1320.7	1322.1
152.5°	1330.8	1328.9	1327.1	1325.3	1326.1	1329.7	1333.3	1336.9	1340.5	1341.9	1343.3
155°	1363.9	1361.8	1359.6	1357.5	1357.9	1360.7	1363.5	1366.4	1369.2	1370.6	1372.0
157.5°	1390.4	1388.6	1386.8	1385.0	1385.1	1387.1	1389.0	1391.0	1393.0	1394.6	1396.2
160°	1406.1	1404.6	1403.2	1401.8	1401.8	1403.2	1404.6	1406.1	1407.5	1408.9	1410.3
162.5°	1419.7	1418.2	1416.8	1415.4	1415.3	1416.5	1417.8	1419.0	1420.2	1421.8	1423.4
165°	1437.9	1436.5	1435.1	1433.7	1433.3	1434.0	1434.8	1435.5	1436.2	1437.8	1439.5
167.5°	1451.6	1450.1	1448.7	1447.3	1446.9	1447.6	1448.2	1448.9	1449.6	1451.2	1452.9
170°	1459.2	1457.8	1456.4	1455.0	1454.5	1455.0	1455.4	1455.9	1456.4	1458.0	1459.7
172.5°	1464.3	1462.9	1461.5	1460.1	1459.6	1460.1	1460.5	1461.0	1461.5	1463.1	1464.8
175°	1470.7	1469.0	1467.4	1465.7	1465.1	1465.6	1466.1	1466.5	1467.0	1468.7	1470.3
177.5°	1472.1	1470.7	1469.4	1468.1	1467.5	1467.7	1467.9	1468.1	1468.3	1469.6	1470.9
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2068.2	2076.8	2076.8	2078.0	2087.8	2086.6	2086.0
5°	2201.0	2214.0	2215.5	2229.3	2238.5	2235.4	2227.0
7.5°	2326.2	2350.4	2368.8	2379.1	2391.2	2398.7	2395.3
10°	2425.5	2460.8	2482.2	2496.8	2514.4	2527.4	2522.8
12.5°	2515.6	2557.6	2587.1	2612.0	2614.3	2631.0	2619.7
15°	2656.2	2700.6	2705.2	2723.6	2738.2	2736.6	2737.4
17.5°	2702.6	2716.9	2719.8	2720.2	2720.4	2715.0	2703.4
20°	2686.1	2680.7	2667.7	2657.7	2640.1	2637.8	2622.5
22.5°	2607.6	2590.6	2557.9	2536.3	2508.9	2501.7	2497.4
25°	2453.1	2415.5	2363.4	2313.6	2299.8	2273.0	2280.7
27.5°	2241.1	2182.6	2126.2	2085.7	2049.1	2008.9	2020.4
30°	2092.1	2026.2	1946.5	1885.2	1846.1	1807.8	1800.9
32.5°	1914.3	1817.8	1728.9	1674.9	1615.0	1590.8	1564.3
35°	1607.8	1513.5	1425.4	1349.5	1305.9	1272.1	1241.5
37.5°	1332.1	1223.6	1152.4	1091.0	1059.4	1040.1	1045.0
40°	1161.0	1066.0	1013.9	967.1	938.0	924.2	927.3
42.5°	1022.5	951.3	908.4	876.4	855.9	848.2	846.4
45°	865.2	825.4	790.1	771.7	761.8	753.3	748.0
47.5°	757.9	725.4	705.5	694.6	685.9	677.3	677.1
50°	693.5	672.1	658.3	646.8	639.9	633.8	639.1
52.5°	644.5	624.9	611.1	600.8	598.2	592.7	592.5
55°	571.7	556.4	546.4	537.2	532.6	529.5	525.7
57.5°	505.5	490.9	481.7	475.9	467.2	464.1	462.9
60°	458.3	446.8	437.6	429.9	426.1	420.0	420.0
62.5°	414.7	403.3	394.7	388.8	382.6	380.1	380.7
65°	351.8	342.6	334.1	328.0	326.5	321.9	323.4
67.5°	293.8	287.7	278.8	275.4	272.5	270.1	268.2
70°	255.2	249.1	244.5	239.9	237.6	237.6	237.6
72.5°	222.7	215.3	212.6	206.8	208.1	205.7	203.2
75°	172.4	167.8	165.5	163.2	159.4	159.4	159.4
77.5°	126.9	125.5	122.8	120.3	119.4	118.6	118.9
80°	98.1	97.3	95.8	95.8	94.3	93.5	92.0
82.5°	75.4	73.4	72.5	71.9	71.6	71.4	71.1
85°	42.9	41.4	41.4	42.1	40.6	40.6	41.4
87.5°	21.5	21.8	21.3	21.4	22.1	21.6	21.7
90°	24.8	26.0	26.8	27.3	27.8	28.2	28.7
92.5°	26.5	27.1	27.6	27.9	28.1	28.4	28.7
95°	45.0	46.2	46.7	46.4	46.2	45.9	45.7
97.5°	58.3	59.3	59.9	60.2	60.5	60.7	61.0
100°	66.3	68.2	69.3	69.8	70.3	70.8	71.2
102.5°	69.7	72.1	73.7	74.3	75.0	75.7	76.3
105°	72.6	75.2	77.0	78.0	78.9	79.8	80.8
107.5°	82.8	80.2	79.4	80.3	81.2	82.2	83.1
110°	115.2	91.5	80.2	81.1	82.1	83.0	84.0



TEST NUMBER: P331456

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	210.7	124.5	81.8	82.6	83.3	84.1	84.8
115°	327.8	218.4	155.2	138.2	121.2	104.2	87.2
117.5°	647.1	620.7	579.5	523.6	467.7	411.8	355.9
120°	787.7	790.6	776.0	744.1	712.2	680.3	648.5
122.5°	834.5	836.2	833.9	827.8	821.6	815.4	809.2
125°	903.2	904.9	906.1	906.8	907.5	908.2	908.9
127.5°	967.6	970.0	971.3	971.4	971.6	971.7	971.8
130°	1008.1	1010.7	1011.9	1011.7	1011.4	1011.2	1011.0
132.5°	1047.0	1049.2	1050.2	1049.9	1049.7	1049.5	1049.2
135°	1103.1	1105.4	1106.4	1105.9	1105.4	1105.0	1104.5
137.5°	1155.0	1157.3	1158.1	1157.3	1156.5	1155.7	1154.9
140°	1188.5	1190.6	1191.1	1189.9	1188.7	1187.5	1186.4
142.5°	1219.4	1221.3	1221.7	1220.5	1219.3	1218.2	1217.0
145°	1262.5	1264.2	1264.4	1263.3	1262.1	1260.9	1259.7
147.5°	1300.0	1301.2	1301.3	1300.3	1299.3	1298.3	1297.3
150°	1323.5	1324.9	1325.0	1323.8	1322.7	1321.5	1320.3
152.5°	1344.8	1346.2	1346.1	1344.5	1343.0	1341.4	1339.9
155°	1373.5	1374.9	1374.6	1372.7	1370.9	1369.0	1367.1
157.5°	1397.8	1399.4	1399.3	1397.5	1395.6	1393.8	1391.9
160°	1411.7	1413.1	1413.0	1411.4	1409.7	1408.1	1406.4
162.5°	1425.0	1426.7	1426.4	1424.4	1422.4	1420.3	1418.3
165°	1441.1	1442.8	1442.8	1441.1	1439.5	1437.8	1436.2
167.5°	1454.5	1456.2	1455.9	1453.8	1451.7	1449.6	1447.4
170°	1461.3	1463.0	1462.7	1460.6	1458.5	1456.4	1454.2
172.5°	1466.4	1468.1	1467.9	1465.7	1463.6	1461.5	1459.3
175°	1472.0	1473.6	1473.3	1470.9	1468.5	1466.2	1463.8
177.5°	1472.2	1473.6	1473.4	1471.7	1470.0	1468.3	1466.6
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1

(END OF REPORT)