

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: P332037-927

Luminaire Tested: **S123DIP-S1000D1195U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332037-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1000D1195U927-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6608.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

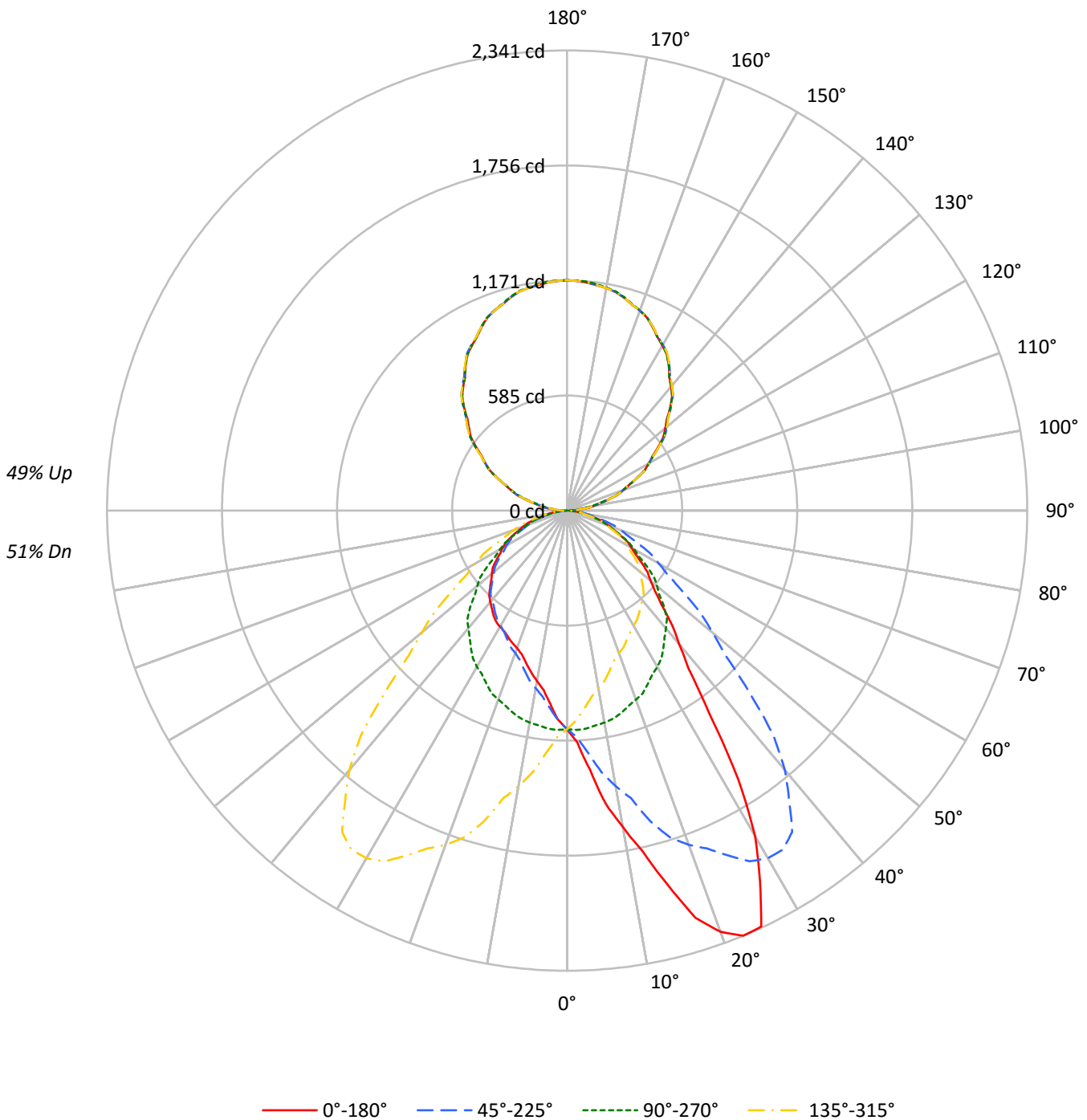
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332037-927

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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	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37
3	82	73	65	60	75	67	61	56	58	53	49	48	45	42	40	38	35	31
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27
5	69	57	49	44	64	54	46	41	46	40	36	39	35	31	32	29	27	24
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	21
7	59	47	39	33	54	44	36	31	38	32	28	32	28	24	27	24	21	19
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	17
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	20	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	11976	11976	11976	11976
5°	14282	12028	10659	12028
10°	17876	11967	9627	11967
15°	21926	11870	8963	11870
20°	26120	11720	8534	11720
25°	27736	11537	8438	11537
30°	23772	11404	8483	11404
35°	16533	11213	8571	11213
40°	12452	10991	8545	10991
45°	10339	10660	8435	10660
50°	9262	9984	8359	9984
55°	8659	9256	8255	9256
60°	8122	8495	8170	8495
65°	7636	7743	7908	7743
70°	7160	6889	7531	6889
75°	6413	6030	6904	6030
80°	5610	4947	5945	4947
85°	4397	3594	3989	3594



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CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.6	1.7
10°-20°	351.5	5.3
20°-30°	589.8	8.9
30°-40°	667.9	10.1
40°-50°	598.9	9.1
50°-60°	483.3	7.3
60°-70°	336.8	5.1
70°-80°	177.0	2.7
80°-90°	46.8	0.7
90°-100°	76.3	1.2
100°-110°	228.5	3.5
110°-120°	388.6	5.9
120°-130°	511.1	7.7
130°-140°	574.5	8.7
140°-150°	564.7	8.5
150°-160°	475.4	7.2
160°-170°	316.5	4.8
170°-180°	110.8	1.7
0°-30°	1050.9	15.9
0°-40°	1718.8	26.0
0°-60°	2801.1	42.4
0°-90°	3361.7	50.9
90°-120°	693.4	10.5
90°-150°	2343.7	35.5
90°-180°	3246.0	49.1
0°-180°	6608.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1113	1113	1113	1113	1113	
5°	1322	1113	986	1113	1322	137
15°	1968	1065	804	1065	1968	568
25°	2335	971	710	971	2335	1024
35°	1258	853	652	853	1258	817
45°	679	700	554	700	679	537
55°	461	493	440	493	461	414
65°	300	304	310	304	300	298
75°	154	145	166	145	154	165
85°	36	29	32	29	36	43
90°	28	1	28	1	28	15
95°	72	54	72	54	72	74
105°	219	207	219	207	219	232
115°	392	391	392	391	392	388
125°	566	572	566	572	566	506
135°	742	743	742	743	742	570
145°	901	901	901	901	901	562
155°	1030	1032	1030	1032	1030	474
165°	1120	1124	1120	1124	1120	316
175°	1164	1169	1164	1169	1164	111
180°	1172	1172	1172	1172	1172	



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1180.7	1180.0	1177.7	1179.5	1176.1	1171.3	1170.8	1166.6	1154.1	1153.2	1149.8
5°	1321.8	1317.5	1316.9	1316.4	1308.8	1298.6	1279.2	1277.6	1251.7	1238.8	1223.1
7.5°	1504.4	1506.7	1498.8	1491.9	1468.9	1453.7	1432.8	1406.2	1374.4	1342.2	1320.7
10°	1635.5	1653.4	1631.3	1616.1	1602.1	1575.7	1545.0	1506.7	1468.5	1423.7	1389.7
12.5°	1776.2	1784.9	1780.4	1766.2	1744.5	1704.2	1649.8	1607.7	1572.4	1497.9	1467.8
15°	1967.6	2000.5	1979.5	1930.9	1932.1	1893.8	1822.6	1744.5	1703.0	1637.7	1548.8
17.5°	2171.6	2175.7	2166.8	2126.3	2099.4	2046.8	1981.1	1906.1	1822.1	1743.1	1648.8
20°	2280.3	2277.0	2258.2	2237.1	2190.8	2149.8	2078.1	1994.6	1886.7	1809.1	1706.2
22.5°	2340.7	2335.3	2326.3	2308.7	2270.2	2226.2	2161.8	2070.4	1967.9	1860.9	1741.9
25°	2335.3	2342.2	2343.4	2338.5	2325.1	2298.6	2247.9	2175.2	2072.7	1935.3	1811.3
27.5°	2123.9	2133.9	2162.7	2188.2	2216.8	2245.9	2242.0	2205.9	2130.1	2011.4	1859.8
30°	1912.6	1891.1	1944.4	2011.8	2057.6	2138.5	2183.8	2186.5	2143.9	2042.0	1894.3
32.5°	1619.4	1643.1	1666.7	1749.6	1849.7	1940.5	2030.7	2103.2	2111.6	2043.8	1914.5
35°	1258.2	1287.9	1330.9	1374.1	1481.9	1574.6	1733.1	1871.1	1981.1	1995.7	1916.4
37.5°	1013.9	1028.6	1055.8	1099.1	1169.6	1279.5	1402.2	1576.6	1735.9	1854.4	1859.6
40°	886.2	890.6	921.3	954.2	1011.3	1101.8	1212.4	1366.5	1557.4	1722.9	1791.9
42.5°	790.5	799.9	813.0	844.6	890.1	958.2	1061.0	1188.4	1363.3	1553.8	1688.8
45°	679.2	690.0	698.1	719.1	751.5	797.3	869.0	985.4	1118.6	1315.3	1497.0
47.5°	605.7	606.6	612.6	628.4	650.5	684.8	735.5	810.3	932.6	1092.2	1278.7
50°	553.1	561.7	563.9	576.2	593.5	618.9	660.9	724.5	824.8	965.0	1136.4
52.5°	516.0	518.6	524.7	533.6	548.7	568.4	604.8	654.7	733.3	852.8	1010.4
55°	461.4	461.4	467.4	474.4	483.0	500.8	525.1	561.7	621.5	714.3	844.7
57.5°	411.0	413.7	417.9	420.0	427.4	439.1	459.4	487.2	531.9	603.2	706.9
60°	377.3	382.2	381.7	386.0	392.4	401.6	418.8	441.5	481.4	538.5	625.9
62.5°	348.0	347.7	347.6	352.8	359.3	368.0	379.2	398.8	432.7	483.3	557.7
65°	299.8	298.7	302.5	305.6	307.8	314.3	322.9	340.2	362.8	400.5	458.2
67.5°	256.8	253.7	255.7	256.8	260.5	265.5	273.6	284.3	302.3	332.6	376.0
70°	227.5	224.8	224.3	225.3	228.5	232.3	238.3	248.5	265.2	289.5	321.3
72.5°	197.3	195.4	195.4	197.7	199.2	201.7	205.9	215.3	228.5	246.8	276.5
75°	154.2	154.2	154.2	154.7	156.3	158.5	161.7	166.6	176.8	189.7	209.7
77.5°	115.6	115.5	114.8	114.7	117.1	118.0	118.8	123.3	129.0	137.8	152.3
80°	90.5	87.9	89.0	90.5	91.7	92.2	93.8	94.9	99.7	104.6	114.8
82.5°	67.3	65.0	65.2	67.7	67.9	68.4	70.1	71.6	73.4	77.9	83.3
85°	35.6	35.6	36.1	36.1	36.7	36.1	37.7	38.3	38.3	41.0	44.2
87.5°	18.5	17.5	17.9	18.2	17.7	18.0	18.3	18.5	18.8	19.1	19.0
90°	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.8	22.9	22.1	19.4
92.5°	37.2	37.4	37.7	37.9	38.2	37.9	37.3	36.7	36.0	35.3	33.8
95°	71.8	71.8	71.8	71.8	71.8	71.4	70.6	69.7	68.9	68.1	66.5
97.5°	110.4	110.5	110.6	110.7	110.7	110.4	109.4	108.4	107.5	106.5	105.4
100°	139.9	139.5	139.1	138.7	138.2	137.8	137.1	136.5	135.9	135.3	134.3
102.5°	170.1	170.2	170.2	170.3	170.4	170.2	169.5	168.9	168.3	167.7	166.4
105°	219.0	218.6	218.2	217.9	217.5	217.2	217.2	217.2	217.2	217.2	215.4
107.5°	270.1	270.3	270.5	270.8	271.0	270.8	270.2	269.5	268.9	268.2	267.4
110°	304.7	305.1	305.5	305.9	306.3	306.1	305.3	304.4	303.6	302.9	302.4



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	341.5	341.6	341.7	341.7	341.8	341.4	340.4	339.4	338.4	337.4	337.3
115°	392.1	392.3	392.5	392.7	392.9	392.9	392.7	392.5	392.3	392.1	392.5
117.5°	443.5	444.0	444.6	445.2	445.8	446.1	446.1	446.2	446.2	446.2	446.8
120°	479.5	480.0	480.4	480.8	481.2	481.5	481.7	481.9	482.1	482.3	483.3
122.5°	514.1	514.7	515.3	515.9	516.4	517.0	517.5	518.1	518.6	519.1	519.7
125°	566.1	566.9	567.7	568.5	569.3	570.1	571.0	571.8	572.6	573.5	573.9
127.5°	617.8	618.7	619.6	620.6	621.5	622.6	623.8	624.9	626.1	627.2	627.6
130°	651.6	653.1	654.5	655.9	657.4	658.5	659.3	660.1	661.0	661.8	662.4
132.5°	687.0	688.1	689.2	690.3	691.4	692.4	693.5	694.4	695.4	696.4	696.8
135°	741.9	742.3	742.7	743.1	743.5	744.1	744.9	745.8	746.6	747.3	747.6
137.5°	790.3	791.1	791.9	792.6	793.4	794.2	795.0	795.9	796.8	797.6	797.1
140°	822.0	823.4	824.8	826.2	827.7	828.5	828.7	828.9	829.1	829.3	829.1
142.5°	854.4	855.5	856.5	857.6	858.7	859.4	859.6	859.8	860.0	860.2	859.8
145°	901.1	901.9	902.7	903.6	904.4	904.9	905.1	905.3	905.5	905.7	905.1
147.5°	942.7	943.9	945.2	946.3	947.6	948.2	948.2	948.2	948.2	948.2	947.6
150°	969.2	970.4	971.7	972.9	974.1	974.7	974.7	974.7	974.7	974.7	974.3
152.5°	995.0	996.0	997.1	998.1	999.3	999.6	999.3	998.9	998.6	998.3	998.1
155°	1029.9	1031.4	1032.8	1034.3	1035.7	1036.0	1035.1	1034.4	1033.6	1032.7	1032.5
157.5°	1061.8	1063.0	1064.1	1065.2	1066.4	1066.5	1065.6	1064.8	1064.0	1063.1	1063.0
160°	1082.4	1083.2	1084.0	1084.9	1085.7	1085.6	1084.6	1083.5	1082.5	1081.5	1081.5
162.5°	1097.9	1099.2	1100.5	1101.8	1103.1	1103.3	1102.2	1101.2	1100.2	1099.2	1099.0
165°	1120.1	1121.6	1123.0	1124.4	1125.8	1126.0	1124.7	1123.6	1122.3	1121.1	1121.1
167.5°	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1	1142.9	1141.6	1140.3	1139.1	1138.9
170°	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4	1153.0	1151.5	1150.1	1148.7	1148.7
172.5°	1156.0	1157.5	1158.9	1160.3	1161.8	1161.9	1160.6	1159.4	1158.1	1156.8	1156.8
175°	1164.3	1165.8	1167.2	1168.6	1170.1	1170.1	1168.9	1167.7	1166.5	1165.2	1165.2
177.5°	1168.8	1169.9	1171.0	1172.2	1173.3	1173.4	1172.4	1171.5	1170.4	1169.5	1169.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1147.2	1143.7	1140.3	1134.2	1129.0	1121.7	1119.5	1117.0	1109.2	1102.3	1097.1
5°	1217.2	1204.3	1185.4	1168.2	1154.1	1135.3	1124.5	1113.2	1097.0	1082.4	1070.6
7.5°	1290.5	1265.1	1235.8	1204.0	1174.6	1146.1	1123.1	1102.6	1080.0	1058.5	1041.8
10°	1348.8	1312.1	1271.1	1226.9	1189.2	1152.5	1121.8	1094.9	1065.7	1040.4	1019.4
12.5°	1415.2	1360.8	1304.3	1250.6	1206.0	1155.2	1117.9	1083.6	1050.7	1020.2	996.6
15°	1493.7	1424.7	1358.0	1284.0	1216.2	1152.5	1108.3	1065.2	1026.9	995.7	965.5
17.5°	1565.4	1487.2	1399.1	1309.3	1227.3	1151.9	1090.0	1041.2	993.4	955.1	925.0
20°	1605.9	1516.9	1417.2	1324.0	1233.4	1149.3	1081.4	1023.2	971.4	931.0	897.0
22.5°	1640.8	1536.8	1433.6	1333.9	1233.0	1142.4	1065.4	1005.5	949.4	909.8	873.7
25°	1677.0	1552.5	1449.1	1332.1	1219.4	1125.6	1039.3	971.4	915.4	869.0	831.8
27.5°	1708.1	1551.5	1428.6	1302.8	1198.0	1104.0	1011.9	939.1	879.6	829.2	791.5
30°	1728.8	1553.6	1407.5	1283.0	1177.3	1080.3	990.8	917.5	855.0	803.7	768.2
32.5°	1741.8	1552.3	1388.1	1255.4	1144.5	1058.8	968.0	892.1	827.8	777.4	743.1
35°	1749.3	1542.9	1354.7	1198.3	1091.6	1008.1	932.1	853.3	786.0	739.1	700.3
37.5°	1734.2	1522.9	1315.9	1143.4	1026.5	944.2	880.3	813.3	748.8	697.1	663.7
40°	1710.5	1510.0	1285.7	1104.5	981.7	902.4	848.0	782.2	718.6	669.6	638.3
42.5°	1665.2	1483.6	1252.5	1061.4	935.1	855.8	805.7	750.8	690.5	644.5	613.2
45°	1554.7	1426.4	1202.7	996.7	866.3	784.3	740.1	700.3	645.8	601.0	574.1
47.5°	1401.4	1340.2	1130.7	928.5	794.5	715.7	669.7	637.6	597.9	561.7	535.8
50°	1294.8	1269.6	1081.9	881.9	746.6	669.6	625.3	596.2	567.7	531.6	507.8
52.5°	1172.0	1187.6	1025.0	833.6	697.9	622.1	580.5	557.4	531.4	501.8	481.1
55°	998.9	1055.5	926.7	752.6	625.3	553.1	513.7	493.2	478.2	456.1	438.2
57.5°	836.9	908.9	820.4	669.0	554.1	491.7	454.0	431.7	422.0	410.4	396.4
60°	740.7	811.8	744.5	612.9	506.2	446.9	413.4	394.6	384.9	376.8	365.0
62.5°	654.9	726.9	670.3	556.0	459.1	404.2	375.1	356.6	349.1	344.9	334.8
65°	536.9	598.9	561.2	467.4	391.9	343.4	317.0	304.0	297.1	295.4	288.9
67.5°	437.0	484.2	456.7	387.7	328.3	286.4	264.0	252.9	247.6	247.0	242.2
70°	371.5	415.7	394.6	332.1	280.8	248.0	228.5	218.9	215.6	215.1	212.4
72.5°	320.5	351.3	334.6	282.5	242.9	213.0	198.8	188.7	185.0	185.8	183.9
75°	237.2	260.4	250.6	214.5	182.8	163.3	151.5	145.0	141.8	143.4	141.2
77.5°	170.6	185.4	176.6	151.6	132.0	118.0	109.2	105.2	102.3	102.2	101.2
80°	128.8	137.4	132.6	117.5	101.3	89.5	82.5	79.8	78.2	77.6	77.1
82.5°	91.7	99.1	93.4	83.0	72.0	64.9	60.9	57.4	56.2	56.5	55.9
85°	46.3	49.0	46.9	40.4	36.1	32.9	30.7	29.1	28.0	28.6	27.5
87.5°	19.3	19.3	17.3	15.2	13.9	12.2	11.8	10.5	10.1	10.5	10.5
90°	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0	2.9	5.0	7.1
92.5°	32.3	30.8	29.3	27.8	26.5	25.0	23.7	22.3	23.7	25.0	26.5
95°	64.8	63.2	61.6	60.0	58.6	57.2	55.8	54.3	55.8	57.2	58.6
97.5°	104.3	103.1	101.9	100.7	99.7	98.6	97.5	96.5	97.5	98.6	99.7
100°	133.2	132.2	131.2	130.1	128.9	127.6	126.4	125.2	126.4	127.6	128.9
102.5°	165.0	163.7	162.3	161.3	160.5	159.8	159.1	158.3	159.1	159.8	160.5
105°	213.6	211.7	209.8	208.7	208.3	207.9	207.5	207.1	207.5	207.9	208.3
107.5°	266.7	266.0	265.3	264.7	264.5	264.3	264.0	263.8	264.0	264.3	264.5
110°	302.0	301.6	301.2	300.8	300.4	299.9	299.5	299.1	299.5	299.9	300.4





TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	337.2	337.2	337.1	336.9	336.7	336.4	336.2	336.0	336.2	336.4	336.7
115°	392.9	393.3	393.7	393.6	393.0	392.4	391.8	391.2	391.8	392.4	393.0
117.5°	447.3	447.8	448.4	448.4	448.0	447.6	447.2	446.8	447.2	447.6	448.0
120°	484.3	485.4	486.4	486.3	485.1	483.9	482.6	481.4	482.6	483.9	485.1
122.5°	520.1	520.7	521.3	521.1	520.1	519.3	518.3	517.5	518.3	519.3	520.1
125°	574.3	574.6	575.0	575.0	574.3	573.7	573.1	572.5	573.1	573.7	574.3
127.5°	628.0	628.5	629.0	628.5	627.2	625.9	624.6	623.3	624.6	625.9	627.2
130°	663.0	663.6	664.2	663.7	662.1	660.4	658.8	657.2	658.8	660.4	662.1
132.5°	697.3	697.8	698.2	697.6	695.9	694.3	692.7	691.0	692.7	694.3	695.9
135°	747.8	748.0	748.2	747.7	746.5	745.2	744.0	742.8	744.0	745.2	746.5
137.5°	796.5	796.1	795.5	794.7	793.7	792.7	791.6	790.7	791.6	792.7	793.7
140°	828.9	828.7	828.5	827.8	826.9	825.9	824.8	823.8	824.8	825.9	826.9
142.5°	859.5	859.1	858.7	858.1	857.1	856.0	855.0	854.0	855.0	856.0	857.1
145°	904.4	903.9	903.2	902.7	902.3	901.9	901.5	901.1	901.5	901.9	902.3
147.5°	947.1	946.5	945.9	945.3	944.5	943.8	943.1	942.3	943.1	943.8	944.5
150°	973.9	973.5	973.1	972.7	972.2	971.8	971.5	971.1	971.5	971.8	972.2
152.5°	997.8	997.5	997.3	996.9	996.3	995.8	995.2	994.6	995.2	995.8	996.3
155°	1032.3	1032.1	1031.9	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8
157.5°	1062.8	1062.6	1062.4	1062.5	1062.7	1063.0	1063.2	1063.4	1063.2	1063.0	1062.7
160°	1081.5	1081.5	1081.5	1081.7	1082.1	1082.5	1082.9	1083.3	1082.9	1082.5	1082.1
162.5°	1098.8	1098.7	1098.5	1098.8	1099.3	1099.9	1100.4	1101.0	1100.4	1099.9	1099.3
165°	1121.1	1121.1	1121.1	1121.4	1122.0	1122.6	1123.2	1123.9	1123.2	1122.6	1122.0
167.5°	1138.8	1138.6	1138.4	1138.8	1139.6	1140.4	1141.2	1142.1	1141.2	1140.4	1139.6
170°	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.4	1151.5	1150.7	1149.9
172.5°	1156.8	1156.8	1156.8	1157.2	1158.0	1158.8	1159.7	1160.5	1159.7	1158.8	1158.0
175°	1165.2	1165.2	1165.2	1165.7	1166.5	1167.3	1168.2	1168.9	1168.2	1167.3	1166.5
177.5°	1169.5	1169.5	1169.5	1169.8	1170.4	1171.2	1171.8	1172.4	1171.8	1171.2	1170.4
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1094.1	1091.1	1086.8	1080.3	1075.1	1066.9	1066.9	1068.3	1068.3	1067.8	1066.9
5°	1060.9	1052.8	1043.1	1031.8	1019.9	1008.1	1005.9	1001.6	998.4	996.2	993.5
7.5°	1025.9	1011.5	997.4	981.5	967.1	955.1	946.8	939.9	935.5	930.7	927.3
10°	1002.1	984.4	967.7	950.9	932.6	918.1	908.9	902.4	897.5	893.3	891.1
12.5°	974.1	953.7	935.3	919.4	899.4	884.4	875.7	872.7	867.0	857.9	853.1
15°	933.1	914.3	892.2	867.9	858.2	839.9	829.7	824.8	821.6	814.5	812.4
17.5°	898.1	873.4	848.6	830.5	812.5	797.6	791.9	785.8	781.6	775.9	774.1
20°	870.1	848.0	825.3	805.9	787.0	770.9	766.0	761.7	757.4	754.7	752.6
22.5°	841.6	819.5	800.7	782.6	762.5	751.9	746.6	741.9	738.9	737.0	734.8
25°	801.6	782.2	761.2	745.0	728.8	721.8	718.6	715.9	713.8	711.1	710.5
27.5°	765.8	744.7	727.6	712.6	700.9	695.1	692.0	690.6	691.1	692.1	692.7
30°	739.1	719.7	705.7	692.7	681.9	676.5	676.0	676.0	678.2	678.7	679.8
32.5°	714.5	698.5	684.5	672.0	663.8	660.1	662.2	662.2	663.9	665.4	667.3
35°	678.7	664.6	653.9	643.1	636.1	637.7	638.8	639.8	642.5	645.8	648.0
37.5°	644.5	632.3	621.2	612.7	609.5	612.4	615.0	617.3	620.4	622.8	625.0
40°	620.0	610.8	600.0	592.5	593.5	595.2	597.3	600.0	602.7	604.3	606.5
42.5°	597.1	587.5	579.3	573.1	574.6	576.6	577.9	579.3	582.4	585.3	586.6
45°	562.3	554.7	547.2	543.4	544.5	545.6	546.6	548.3	551.0	553.1	553.7
47.5°	523.1	517.8	512.8	509.1	510.8	510.4	511.8	515.2	516.1	517.4	520.4
50°	498.1	493.2	487.4	486.2	486.2	486.2	486.8	491.1	491.1	493.2	495.4
52.5°	470.5	467.4	463.6	461.7	460.8	460.8	463.0	465.2	466.1	469.1	471.3
55°	429.7	426.4	423.2	421.5	420.5	421.5	425.9	426.9	429.7	431.3	432.8
57.5°	387.1	384.6	382.0	381.1	380.9	382.3	384.7	387.9	388.6	393.6	396.0
60°	359.0	355.2	353.1	353.1	352.0	356.9	355.8	361.2	362.3	365.5	369.2
62.5°	330.1	325.0	324.2	324.2	325.7	327.1	328.6	331.0	333.8	337.9	340.8
65°	283.5	280.8	284.6	284.1	283.0	286.2	286.2	288.9	292.2	296.0	301.9
67.5°	239.5	238.1	238.4	238.4	240.0	241.9	243.4	245.7	249.6	253.6	257.5
70°	209.7	211.4	208.7	210.8	212.4	212.9	214.0	217.2	221.6	224.3	228.5
72.5°	180.8	180.7	181.0	181.9	183.5	184.5	185.5	189.3	193.9	196.2	199.7
75°	139.1	138.6	140.1	140.1	142.8	143.9	145.0	146.6	150.9	154.2	156.9
77.5°	101.6	102.2	101.9	103.7	103.0	103.1	106.5	108.1	108.6	114.9	116.4
80°	76.5	77.6	78.2	78.7	79.2	78.2	81.9	83.6	83.6	87.3	90.0
82.5°	55.0	55.6	57.0	57.6	57.7	58.8	59.1	60.3	61.6	63.2	66.7
85°	27.5	29.1	29.6	29.1	29.6	28.6	30.2	30.7	31.3	31.3	31.3
87.5°	10.5	11.3	11.5	12.4	12.5	13.5	13.6	12.9	13.1	14.6	13.0
90°	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.8	24.6	25.3	26.0
92.5°	27.8	29.3	30.8	32.3	33.8	35.3	36.0	36.7	37.3	37.9	38.2
95°	60.0	61.6	63.2	64.8	66.5	68.1	68.9	69.7	70.6	71.4	71.8
97.5°	100.7	101.9	103.1	104.3	105.4	106.5	107.5	108.4	109.4	110.4	110.7
100°	130.1	131.2	132.2	133.2	134.3	135.3	135.9	136.5	137.1	137.8	138.2
102.5°	161.3	162.3	163.7	165.0	166.4	167.7	168.3	168.9	169.5	170.2	170.4
105°	208.7	209.8	211.7	213.6	215.4	217.2	217.2	217.2	217.2	217.2	217.5
107.5°	264.7	265.3	266.0	266.7	267.4	268.2	268.9	269.5	270.2	270.8	271.0
110°	300.8	301.2	301.6	302.0	302.4	302.9	303.6	304.4	305.3	306.1	306.3



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	336.9	337.1	337.2	337.2	337.3	337.4	338.4	339.4	340.4	341.4	341.8
115°	393.6	393.7	393.3	392.9	392.5	392.1	392.3	392.5	392.7	392.9	392.9
117.5°	448.4	448.4	447.8	447.3	446.8	446.2	446.2	446.2	446.1	446.1	445.8
120°	486.3	486.4	485.4	484.3	483.3	482.3	482.1	481.9	481.7	481.5	481.2
122.5°	521.1	521.3	520.7	520.1	519.7	519.1	518.6	518.1	517.5	517.0	516.4
125°	575.0	575.0	574.6	574.3	573.9	573.5	572.6	571.8	571.0	570.1	569.3
127.5°	628.5	629.0	628.5	628.0	627.6	627.2	626.1	624.9	623.8	622.6	621.5
130°	663.7	664.2	663.6	663.0	662.4	661.8	661.0	660.1	659.3	658.5	657.4
132.5°	697.6	698.2	697.8	697.3	696.8	696.4	695.4	694.4	693.5	692.4	691.4
135°	747.7	748.2	748.0	747.8	747.6	747.3	746.6	745.8	744.9	744.1	743.5
137.5°	794.7	795.5	796.1	796.5	797.1	797.6	796.8	795.9	795.0	794.2	793.4
140°	827.8	828.5	828.7	828.9	829.1	829.3	829.1	828.9	828.7	828.5	827.7
142.5°	858.1	858.7	859.1	859.5	859.8	860.2	860.0	859.8	859.6	859.4	858.7
145°	902.7	903.2	903.9	904.4	905.1	905.7	905.5	905.3	905.1	904.9	904.4
147.5°	945.3	945.9	946.5	947.1	947.6	948.2	948.2	948.2	948.2	948.2	947.6
150°	972.7	973.1	973.5	973.9	974.3	974.7	974.7	974.7	974.7	974.7	974.1
152.5°	996.9	997.3	997.5	997.8	998.1	998.3	998.6	998.9	999.3	999.6	999.3
155°	1031.8	1031.9	1032.1	1032.3	1032.5	1032.7	1033.6	1034.4	1035.1	1036.0	1035.7
157.5°	1062.5	1062.4	1062.6	1062.8	1063.0	1063.1	1064.0	1064.8	1065.6	1066.5	1066.4
160°	1081.7	1081.5	1081.5	1081.5	1081.5	1081.5	1082.5	1083.5	1084.6	1085.6	1085.7
162.5°	1098.8	1098.5	1098.7	1098.8	1099.0	1099.2	1100.2	1101.2	1102.2	1103.3	1103.1
165°	1121.4	1121.1	1121.1	1121.1	1121.1	1121.1	1122.3	1123.6	1124.7	1126.0	1125.8
167.5°	1138.8	1138.4	1138.6	1138.8	1138.9	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1
170°	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4
172.5°	1157.2	1156.8	1156.8	1156.8	1156.8	1156.8	1158.1	1159.4	1160.6	1161.9	1161.8
175°	1165.7	1165.2	1165.2	1165.2	1165.2	1165.2	1166.5	1167.7	1168.9	1170.1	1170.1
177.5°	1169.8	1169.5	1169.5	1169.5	1169.5	1169.5	1170.4	1171.5	1172.4	1173.4	1173.3
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1063.9	1063.5	1066.5	1064.4	1066.5	1063.5	1063.9	1066.9	1067.8	1068.3	1068.3
5°	990.3	991.9	986.5	986.5	986.5	991.9	990.3	993.5	996.2	998.4	1001.6
7.5°	924.7	922.3	922.6	919.6	922.6	922.3	924.7	927.3	930.7	935.5	939.9
10°	884.6	881.4	880.3	880.8	880.3	881.4	884.6	891.1	893.3	897.5	902.4
12.5°	851.4	850.8	843.7	843.8	843.7	850.8	851.4	853.1	857.9	867.0	872.7
15°	812.4	802.2	801.1	804.3	801.1	802.2	812.4	812.4	814.5	821.6	824.8
17.5°	773.2	767.9	768.2	766.6	768.2	767.9	773.2	774.1	775.9	781.6	785.8
20°	752.6	749.3	748.8	745.0	748.8	749.3	752.6	752.6	754.7	757.4	761.7
22.5°	733.6	732.5	732.8	728.6	732.8	732.5	733.6	734.8	737.0	738.9	741.9
25°	710.0	712.6	710.5	710.5	710.5	712.6	710.0	710.5	711.1	713.8	715.9
27.5°	694.0	693.9	692.8	692.8	692.8	693.9	694.0	692.7	692.1	691.1	690.6
30°	681.9	681.4	682.5	682.5	682.5	681.4	681.9	679.8	678.7	678.2	676.0
32.5°	669.9	670.6	670.8	671.2	670.8	670.6	669.9	667.3	665.4	663.9	662.2
35°	651.2	651.7	653.4	652.3	653.4	651.7	651.2	648.0	645.8	642.5	639.8
37.5°	626.0	628.4	627.9	628.8	627.9	628.4	626.0	625.0	622.8	620.4	617.3
40°	607.0	608.6	608.1	608.1	608.1	608.6	607.0	606.5	604.3	602.7	600.0
42.5°	587.6	588.7	587.4	586.5	587.4	588.7	587.6	586.6	585.3	582.4	579.3
45°	555.8	554.7	556.3	554.1	556.3	554.7	555.8	553.7	553.1	551.0	548.3
47.5°	520.2	521.3	521.7	523.3	521.7	521.3	520.2	520.4	517.4	516.1	515.2
50°	496.5	499.7	499.7	499.2	499.7	499.7	496.5	495.4	493.2	491.1	491.1
52.5°	473.2	474.7	476.9	476.7	476.9	474.7	473.2	471.3	469.1	466.1	465.2
55°	437.2	438.2	439.3	439.9	439.3	438.2	437.2	432.8	431.3	429.7	426.9
57.5°	399.9	399.4	402.0	402.8	402.0	399.4	399.9	396.0	393.6	388.6	387.9
60°	373.6	373.6	377.9	379.5	377.9	373.6	373.6	369.2	365.5	362.3	361.2
62.5°	345.5	347.3	351.6	349.4	351.6	347.3	345.5	340.8	337.9	333.8	331.0
65°	304.6	308.9	308.3	310.5	308.3	308.9	304.6	301.9	296.0	292.2	288.9
67.5°	261.7	264.4	268.3	268.7	268.3	264.4	261.7	257.5	253.6	249.6	245.7
70°	232.9	235.6	237.7	239.3	237.7	235.6	232.9	228.5	224.3	221.6	217.2
72.5°	204.9	206.3	211.4	209.1	211.4	206.3	204.9	199.7	196.2	193.9	189.3
75°	160.7	164.4	167.6	166.0	167.6	164.4	160.7	156.9	154.2	150.9	146.6
77.5°	118.8	122.6	124.1	122.7	124.1	122.6	118.8	116.4	114.9	108.6	108.1
80°	93.8	93.2	96.5	95.9	96.5	93.2	93.8	90.0	87.3	83.6	83.6
82.5°	68.8	68.3	69.8	70.1	69.8	68.3	68.8	66.7	63.2	61.6	60.3
85°	33.4	35.0	32.9	32.3	32.9	35.0	33.4	31.3	31.3	31.3	30.7
87.5°	13.1	13.2	12.8	12.4	12.8	13.2	13.1	13.0	14.6	13.1	12.9
90°	26.4	26.8	27.2	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.8
92.5°	37.9	37.7	37.4	37.2	37.4	37.7	37.9	38.2	37.9	37.3	36.7
95°	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.4	70.6	69.7
97.5°	110.7	110.6	110.5	110.4	110.5	110.6	110.7	110.7	110.4	109.4	108.4
100°	138.7	139.1	139.5	139.9	139.5	139.1	138.7	138.2	137.8	137.1	136.5
102.5°	170.3	170.2	170.2	170.1	170.2	170.2	170.3	170.4	170.2	169.5	168.9
105°	217.9	218.2	218.6	219.0	218.6	218.2	217.9	217.5	217.2	217.2	217.2
107.5°	270.8	270.5	270.3	270.1	270.3	270.5	270.8	271.0	270.8	270.2	269.5
110°	305.9	305.5	305.1	304.7	305.1	305.5	305.9	306.3	306.1	305.3	304.4



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	341.7	341.7	341.6	341.5	341.6	341.7	341.7	341.8	341.4	340.4	339.4
115°	392.7	392.5	392.3	392.1	392.3	392.5	392.7	392.9	392.9	392.7	392.5
117.5°	445.2	444.6	444.0	443.5	444.0	444.6	445.2	445.8	446.1	446.1	446.2
120°	480.8	480.4	480.0	479.5	480.0	480.4	480.8	481.2	481.5	481.7	481.9
122.5°	515.9	515.3	514.7	514.1	514.7	515.3	515.9	516.4	517.0	517.5	518.1
125°	568.5	567.7	566.9	566.1	566.9	567.7	568.5	569.3	570.1	571.0	571.8
127.5°	620.6	619.6	618.7	617.8	618.7	619.6	620.6	621.5	622.6	623.8	624.9
130°	655.9	654.5	653.1	651.6	653.1	654.5	655.9	657.4	658.5	659.3	660.1
132.5°	690.3	689.2	688.1	687.0	688.1	689.2	690.3	691.4	692.4	693.5	694.4
135°	743.1	742.7	742.3	741.9	742.3	742.7	743.1	743.5	744.1	744.9	745.8
137.5°	792.6	791.9	791.1	790.3	791.1	791.9	792.6	793.4	794.2	795.0	795.9
140°	826.2	824.8	823.4	822.0	823.4	824.8	826.2	827.7	828.5	828.7	828.9
142.5°	857.6	856.5	855.5	854.4	855.5	856.5	857.6	858.7	859.4	859.6	859.8
145°	903.6	902.7	901.9	901.1	901.9	902.7	903.6	904.4	904.9	905.1	905.3
147.5°	946.3	945.2	943.9	942.7	943.9	945.2	946.3	947.6	948.2	948.2	948.2
150°	972.9	971.7	970.4	969.2	970.4	971.7	972.9	974.1	974.7	974.7	974.7
152.5°	998.1	997.1	996.0	995.0	996.0	997.1	998.1	999.3	999.6	999.3	998.9
155°	1034.3	1032.8	1031.4	1029.9	1031.4	1032.8	1034.3	1035.7	1036.0	1035.1	1034.4
157.5°	1065.2	1064.1	1063.0	1061.8	1063.0	1064.1	1065.2	1066.4	1066.5	1065.6	1064.8
160°	1084.9	1084.0	1083.2	1082.4	1083.2	1084.0	1084.9	1085.7	1085.6	1084.6	1083.5
162.5°	1101.8	1100.5	1099.2	1097.9	1099.2	1100.5	1101.8	1103.1	1103.3	1102.2	1101.2
165°	1124.4	1123.0	1121.6	1120.1	1121.6	1123.0	1124.4	1125.8	1126.0	1124.7	1123.6
167.5°	1142.9	1141.6	1140.3	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1	1142.9	1141.6
170°	1153.0	1151.5	1150.1	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4	1153.0	1151.5
172.5°	1160.3	1158.9	1157.5	1156.0	1157.5	1158.9	1160.3	1161.8	1161.9	1160.6	1159.4
175°	1168.6	1167.2	1165.8	1164.3	1165.8	1167.2	1168.6	1170.1	1170.1	1168.9	1167.7
177.5°	1172.2	1171.0	1169.9	1168.8	1169.9	1171.0	1172.2	1173.3	1173.4	1172.4	1171.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1066.9	1066.9	1075.1	1080.3	1086.8	1091.1	1094.1	1097.1	1102.3	1109.2	1117.0
5°	1005.9	1008.1	1019.9	1031.8	1043.1	1052.8	1060.9	1070.6	1082.4	1097.0	1113.2
7.5°	946.8	955.1	967.1	981.5	997.4	1011.5	1025.9	1041.8	1058.5	1080.0	1102.6
10°	908.9	918.1	932.6	950.9	967.7	984.4	1002.1	1019.4	1040.4	1065.7	1094.9
12.5°	875.7	884.4	899.4	919.4	935.3	953.7	974.1	996.6	1020.2	1050.7	1083.6
15°	829.7	839.9	858.2	867.9	892.2	914.3	933.1	965.5	995.7	1026.9	1065.2
17.5°	791.9	797.6	812.5	830.5	848.6	873.4	898.1	925.0	955.1	993.4	1041.2
20°	766.0	770.9	787.0	805.9	825.3	848.0	870.1	897.0	931.0	971.4	1023.2
22.5°	746.6	751.9	762.5	782.6	800.7	819.5	841.6	873.7	909.8	949.4	1005.5
25°	718.6	721.8	728.8	745.0	761.2	782.2	801.6	831.8	869.0	915.4	971.4
27.5°	692.0	695.1	700.9	712.6	727.6	744.7	765.8	791.5	829.2	879.6	939.1
30°	676.0	676.5	681.9	692.7	705.7	719.7	739.1	768.2	803.7	855.0	917.5
32.5°	662.2	660.1	663.8	672.0	684.5	698.5	714.5	743.1	777.4	827.8	892.1
35°	638.8	637.7	636.1	643.1	653.9	664.6	678.7	700.3	739.1	786.0	853.3
37.5°	615.0	612.4	609.5	612.7	621.2	632.3	644.5	663.7	697.1	748.8	813.3
40°	597.3	595.2	593.5	592.5	600.0	610.8	620.0	638.3	669.6	718.6	782.2
42.5°	577.9	576.6	574.6	573.1	579.3	587.5	597.1	613.2	644.5	690.5	750.8
45°	546.6	545.6	544.5	543.4	547.2	554.7	562.3	574.1	601.0	645.8	700.3
47.5°	511.8	510.4	510.8	509.1	512.8	517.8	523.1	535.8	561.7	597.9	637.6
50°	486.8	486.2	486.2	486.2	487.4	493.2	498.1	507.8	531.6	567.7	596.2
52.5°	463.0	460.8	460.8	461.7	463.6	467.4	470.5	481.1	501.8	531.4	557.4
55°	425.9	421.5	420.5	421.5	423.2	426.4	429.7	438.2	456.1	478.2	493.2
57.5°	384.7	382.3	380.9	381.1	382.0	384.6	387.1	396.4	410.4	422.0	431.7
60°	355.8	356.9	352.0	353.1	353.1	355.2	359.0	365.0	376.8	384.9	394.6
62.5°	328.6	327.1	325.7	324.2	324.2	325.0	330.1	334.8	344.9	349.1	356.6
65°	286.2	286.2	283.0	284.1	284.6	280.8	283.5	288.9	295.4	297.1	304.0
67.5°	243.4	241.9	240.0	238.4	238.4	238.1	239.5	242.2	247.0	247.6	252.9
70°	214.0	212.9	212.4	210.8	208.7	211.4	209.7	212.4	215.1	215.6	218.9
72.5°	185.5	184.5	183.5	181.9	181.0	180.7	180.8	183.9	185.8	185.0	188.7
75°	145.0	143.9	142.8	140.1	140.1	138.6	139.1	141.2	143.4	141.8	145.0
77.5°	106.5	103.1	103.0	103.7	101.9	102.2	101.6	101.2	102.2	102.3	105.2
80°	81.9	78.2	79.2	78.7	78.2	77.6	76.5	77.1	77.6	78.2	79.8
82.5°	59.1	58.8	57.7	57.6	57.0	55.6	55.0	55.9	56.5	56.2	57.4
85°	30.2	28.6	29.6	29.1	29.6	29.1	27.5	27.5	28.6	28.0	29.1
87.5°	13.6	13.5	12.5	12.4	11.5	11.3	10.5	10.5	10.5	10.1	10.5
90°	22.9	22.1	19.4	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0
92.5°	36.0	35.3	33.8	32.3	30.8	29.3	27.8	26.5	25.0	23.7	22.3
95°	68.9	68.1	66.5	64.8	63.2	61.6	60.0	58.6	57.2	55.8	54.3
97.5°	107.5	106.5	105.4	104.3	103.1	101.9	100.7	99.7	98.6	97.5	96.5
100°	135.9	135.3	134.3	133.2	132.2	131.2	130.1	128.9	127.6	126.4	125.2
102.5°	168.3	167.7	166.4	165.0	163.7	162.3	161.3	160.5	159.8	159.1	158.3
105°	217.2	217.2	215.4	213.6	211.7	209.8	208.7	208.3	207.9	207.5	207.1
107.5°	268.9	268.2	267.4	266.7	266.0	265.3	264.7	264.5	264.3	264.0	263.8
110°	303.6	302.9	302.4	302.0	301.6	301.2	300.8	300.4	299.9	299.5	299.1



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	338.4	337.4	337.3	337.2	337.2	337.1	336.9	336.7	336.4	336.2	336.0
115°	392.3	392.1	392.5	392.9	393.3	393.7	393.6	393.0	392.4	391.8	391.2
117.5°	446.2	446.2	446.8	447.3	447.8	448.4	448.4	448.0	447.6	447.2	446.8
120°	482.1	482.3	483.3	484.3	485.4	486.4	486.3	485.1	483.9	482.6	481.4
122.5°	518.6	519.1	519.7	520.1	520.7	521.3	521.1	520.1	519.3	518.3	517.5
125°	572.6	573.5	573.9	574.3	574.6	575.0	575.0	574.3	573.7	573.1	572.5
127.5°	626.1	627.2	627.6	628.0	628.5	629.0	628.5	627.2	625.9	624.6	623.3
130°	661.0	661.8	662.4	663.0	663.6	664.2	663.7	662.1	660.4	658.8	657.2
132.5°	695.4	696.4	696.8	697.3	697.8	698.2	697.6	695.9	694.3	692.7	691.0
135°	746.6	747.3	747.6	747.8	748.0	748.2	747.7	746.5	745.2	744.0	742.8
137.5°	796.8	797.6	797.1	796.5	796.1	795.5	794.7	793.7	792.7	791.6	790.7
140°	829.1	829.3	829.1	828.9	828.7	828.5	827.8	826.9	825.9	824.8	823.8
142.5°	860.0	860.2	859.8	859.5	859.1	858.7	858.1	857.1	856.0	855.0	854.0
145°	905.5	905.7	905.1	904.4	903.9	903.2	902.7	902.3	901.9	901.5	901.1
147.5°	948.2	948.2	947.6	947.1	946.5	945.9	945.3	944.5	943.8	943.1	942.3
150°	974.7	974.7	974.3	973.9	973.5	973.1	972.7	972.2	971.8	971.5	971.1
152.5°	998.6	998.3	998.1	997.8	997.5	997.3	996.9	996.3	995.8	995.2	994.6
155°	1033.6	1032.7	1032.5	1032.3	1032.1	1031.9	1031.8	1031.8	1031.8	1031.8	1031.8
157.5°	1064.0	1063.1	1063.0	1062.8	1062.6	1062.4	1062.5	1062.7	1063.0	1063.2	1063.4
160°	1082.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.7	1082.1	1082.5	1082.9	1083.3
162.5°	1100.2	1099.2	1099.0	1098.8	1098.7	1098.5	1098.8	1099.3	1099.9	1100.4	1101.0
165°	1122.3	1121.1	1121.1	1121.1	1121.1	1121.1	1121.4	1122.0	1122.6	1123.2	1123.9
167.5°	1140.3	1139.1	1138.9	1138.8	1138.6	1138.4	1138.8	1139.6	1140.4	1141.2	1142.1
170°	1150.1	1148.7	1148.7	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.4
172.5°	1158.1	1156.8	1156.8	1156.8	1156.8	1156.8	1157.2	1158.0	1158.8	1159.7	1160.5
175°	1166.5	1165.2	1165.2	1165.2	1165.2	1165.2	1165.7	1166.5	1167.3	1168.2	1168.9
177.5°	1170.4	1169.5	1169.5	1169.5	1169.5	1169.5	1169.8	1170.4	1171.2	1171.8	1172.4
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1119.5	1121.7	1129.0	1134.2	1140.3	1143.7	1147.2	1149.8	1153.2	1154.1	1166.6
5°	1124.5	1135.3	1154.1	1168.2	1185.4	1204.3	1217.2	1223.1	1238.8	1251.7	1277.6
7.5°	1123.1	1146.1	1174.6	1204.0	1235.8	1265.1	1290.5	1320.7	1342.2	1374.4	1406.2
10°	1121.8	1152.5	1189.2	1226.9	1271.1	1312.1	1348.8	1389.7	1423.7	1468.5	1506.7
12.5°	1117.9	1155.2	1206.0	1250.6	1304.3	1360.8	1415.2	1467.8	1497.9	1572.4	1607.7
15°	1108.3	1152.5	1216.2	1284.0	1358.0	1424.7	1493.7	1548.8	1637.7	1703.0	1744.5
17.5°	1090.0	1151.9	1227.3	1309.3	1399.1	1487.2	1565.4	1648.8	1743.1	1822.1	1906.1
20°	1081.4	1149.3	1233.4	1324.0	1417.2	1516.9	1605.9	1706.2	1809.1	1886.7	1994.6
22.5°	1065.4	1142.4	1233.0	1333.9	1433.6	1536.8	1640.8	1741.9	1860.9	1967.9	2070.4
25°	1039.3	1125.6	1219.4	1332.1	1449.1	1552.5	1677.0	1811.3	1935.3	2072.7	2175.2
27.5°	1011.9	1104.0	1198.0	1302.8	1428.6	1551.5	1708.1	1859.8	2011.4	2130.1	2205.9
30°	990.8	1080.3	1177.3	1283.0	1407.5	1553.6	1728.8	1894.3	2042.0	2143.9	2186.5
32.5°	968.0	1058.8	1144.5	1255.4	1388.1	1552.3	1741.8	1914.5	2043.8	2111.6	2103.2
35°	932.1	1008.1	1091.6	1198.3	1354.7	1542.9	1749.3	1916.4	1995.7	1981.1	1871.1
37.5°	880.3	944.2	1026.5	1143.4	1315.9	1522.9	1734.2	1859.6	1854.4	1735.9	1576.6
40°	848.0	902.4	981.7	1104.5	1285.7	1510.0	1710.5	1791.9	1722.9	1557.4	1366.5
42.5°	805.7	855.8	935.1	1061.4	1252.5	1483.6	1665.2	1688.8	1553.8	1363.3	1188.4
45°	740.1	784.3	866.3	996.7	1202.7	1426.4	1554.7	1497.0	1315.3	1118.6	985.4
47.5°	669.7	715.7	794.5	928.5	1130.7	1340.2	1401.4	1278.7	1092.2	932.6	810.3
50°	625.3	669.6	746.6	881.9	1081.9	1269.6	1294.8	1136.4	965.0	824.8	724.5
52.5°	580.5	622.1	697.9	833.6	1025.0	1187.6	1172.0	1010.4	852.8	733.3	654.7
55°	513.7	553.1	625.3	752.6	926.7	1055.5	998.9	844.7	714.3	621.5	561.7
57.5°	454.0	491.7	554.1	669.0	820.4	908.9	836.9	706.9	603.2	531.9	487.2
60°	413.4	446.9	506.2	612.9	744.5	811.8	740.7	625.9	538.5	481.4	441.5
62.5°	375.1	404.2	459.1	556.0	670.3	726.9	654.9	557.7	483.3	432.7	398.8
65°	317.0	343.4	391.9	467.4	561.2	598.9	536.9	458.2	400.5	362.8	340.2
67.5°	264.0	286.4	328.3	387.7	456.7	484.2	437.0	376.0	332.6	302.3	284.3
70°	228.5	248.0	280.8	332.1	394.6	415.7	371.5	321.3	289.5	265.2	248.5
72.5°	198.8	213.0	242.9	282.5	334.6	351.3	320.5	276.5	246.8	228.5	215.3
75°	151.5	163.3	182.8	214.5	250.6	260.4	237.2	209.7	189.7	176.8	166.6
77.5°	109.2	118.0	132.0	151.6	176.6	185.4	170.6	152.3	137.8	129.0	123.3
80°	82.5	89.5	101.3	117.5	132.6	137.4	128.8	114.8	104.6	99.7	94.9
82.5°	60.9	64.9	72.0	83.0	93.4	99.1	91.7	83.3	77.9	73.4	71.6
85°	30.7	32.9	36.1	40.4	46.9	49.0	46.3	44.2	41.0	38.3	38.3
87.5°	11.8	12.2	13.9	15.2	17.3	19.3	19.3	19.0	19.1	18.8	18.5
90°	2.9	5.0	7.1	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.8
92.5°	23.7	25.0	26.5	27.8	29.3	30.8	32.3	33.8	35.3	36.0	36.7
95°	55.8	57.2	58.6	60.0	61.6	63.2	64.8	66.5	68.1	68.9	69.7
97.5°	97.5	98.6	99.7	100.7	101.9	103.1	104.3	105.4	106.5	107.5	108.4
100°	126.4	127.6	128.9	130.1	131.2	132.2	133.2	134.3	135.3	135.9	136.5
102.5°	159.1	159.8	160.5	161.3	162.3	163.7	165.0	166.4	167.7	168.3	168.9
105°	207.5	207.9	208.3	208.7	209.8	211.7	213.6	215.4	217.2	217.2	217.2
107.5°	264.0	264.3	264.5	264.7	265.3	266.0	266.7	267.4	268.2	268.9	269.5
110°	299.5	299.9	300.4	300.8	301.2	301.6	302.0	302.4	302.9	303.6	304.4





TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	336.2	336.4	336.7	336.9	337.1	337.2	337.2	337.3	337.4	338.4	339.4
115°	391.8	392.4	393.0	393.6	393.7	393.3	392.9	392.5	392.1	392.3	392.5
117.5°	447.2	447.6	448.0	448.4	448.4	447.8	447.3	446.8	446.2	446.2	446.2
120°	482.6	483.9	485.1	486.3	486.4	485.4	484.3	483.3	482.3	482.1	481.9
122.5°	518.3	519.3	520.1	521.1	521.3	520.7	520.1	519.7	519.1	518.6	518.1
125°	573.1	573.7	574.3	575.0	575.0	574.6	574.3	573.9	573.5	572.6	571.8
127.5°	624.6	625.9	627.2	628.5	629.0	628.5	628.0	627.6	627.2	626.1	624.9
130°	658.8	660.4	662.1	663.7	664.2	663.6	663.0	662.4	661.8	661.0	660.1
132.5°	692.7	694.3	695.9	697.6	698.2	697.8	697.3	696.8	696.4	695.4	694.4
135°	744.0	745.2	746.5	747.7	748.2	748.0	747.8	747.6	747.3	746.6	745.8
137.5°	791.6	792.7	793.7	794.7	795.5	796.1	796.5	797.1	797.6	796.8	795.9
140°	824.8	825.9	826.9	827.8	828.5	828.7	828.9	829.1	829.3	829.1	828.9
142.5°	855.0	856.0	857.1	858.1	858.7	859.1	859.5	859.8	860.2	860.0	859.8
145°	901.5	901.9	902.3	902.7	903.2	903.9	904.4	905.1	905.7	905.5	905.3
147.5°	943.1	943.8	944.5	945.3	945.9	946.5	947.1	947.6	948.2	948.2	948.2
150°	971.5	971.8	972.2	972.7	973.1	973.5	973.9	974.3	974.7	974.7	974.7
152.5°	995.2	995.8	996.3	996.9	997.3	997.5	997.8	998.1	998.3	998.6	998.9
155°	1031.8	1031.8	1031.8	1031.8	1031.9	1032.1	1032.3	1032.5	1032.7	1033.6	1034.4
157.5°	1063.2	1063.0	1062.7	1062.5	1062.4	1062.6	1062.8	1063.0	1063.1	1064.0	1064.8
160°	1082.9	1082.5	1082.1	1081.7	1081.5	1081.5	1081.5	1081.5	1081.5	1082.5	1083.5
162.5°	1100.4	1099.9	1099.3	1098.8	1098.5	1098.7	1098.8	1099.0	1099.2	1100.2	1101.2
165°	1123.2	1122.6	1122.0	1121.4	1121.1	1121.1	1121.1	1121.1	1121.1	1122.3	1123.6
167.5°	1141.2	1140.4	1139.6	1138.8	1138.4	1138.6	1138.8	1138.9	1139.1	1140.3	1141.6
170°	1151.5	1150.7	1149.9	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1150.1	1151.5
172.5°	1159.7	1158.8	1158.0	1157.2	1156.8	1156.8	1156.8	1156.8	1156.8	1158.1	1159.4
175°	1168.2	1167.3	1166.5	1165.7	1165.2	1165.2	1165.2	1165.2	1165.2	1166.5	1167.7
177.5°	1171.8	1171.2	1170.4	1169.8	1169.5	1169.5	1169.5	1169.5	1169.5	1170.4	1171.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1170.8	1171.3	1176.1	1179.5	1177.7	1180.0	1180.7
5°	1279.2	1298.6	1308.8	1316.4	1316.9	1317.5	1321.8
7.5°	1432.8	1453.7	1468.9	1491.9	1498.8	1506.7	1504.4
10°	1545.0	1575.7	1602.1	1616.1	1631.3	1653.4	1635.5
12.5°	1649.8	1704.2	1744.5	1766.2	1780.4	1784.9	1776.2
15°	1822.6	1893.8	1932.1	1930.9	1979.5	2000.5	1967.6
17.5°	1981.1	2046.8	2099.4	2126.3	2166.8	2175.7	2171.6
20°	2078.1	2149.8	2190.8	2237.1	2258.2	2277.0	2280.3
22.5°	2161.8	2226.2	2270.2	2308.7	2326.3	2335.3	2340.7
25°	2247.9	2298.6	2325.1	2338.5	2343.4	2342.2	2335.3
27.5°	2242.0	2245.9	2216.8	2188.2	2162.7	2133.9	2123.9
30°	2183.8	2138.5	2057.6	2011.8	1944.4	1891.1	1912.6
32.5°	2030.7	1940.5	1849.7	1749.6	1666.7	1643.1	1619.4
35°	1733.1	1574.6	1481.9	1374.1	1330.9	1287.9	1258.2
37.5°	1402.2	1279.5	1169.6	1099.1	1055.8	1028.6	1013.9
40°	1212.4	1101.8	1011.3	954.2	921.3	890.6	886.2
42.5°	1061.0	958.2	890.1	844.6	813.0	799.9	790.5
45°	869.0	797.3	751.5	719.1	698.1	690.0	679.2
47.5°	735.5	684.8	650.5	628.4	612.6	606.6	605.7
50°	660.9	618.9	593.5	576.2	563.9	561.7	553.1
52.5°	604.8	568.4	548.7	533.6	524.7	518.6	516.0
55°	525.1	500.8	483.0	474.4	467.4	461.4	461.4
57.5°	459.4	439.1	427.4	420.0	417.9	413.7	411.0
60°	418.8	401.6	392.4	386.0	381.7	382.2	377.3
62.5°	379.2	368.0	359.3	352.8	347.6	347.7	348.0
65°	322.9	314.3	307.8	305.6	302.5	298.7	299.8
67.5°	273.6	265.5	260.5	256.8	255.7	253.7	256.8
70°	238.3	232.3	228.5	225.3	224.3	224.8	227.5
72.5°	205.9	201.7	199.2	197.7	195.4	195.4	197.3
75°	161.7	158.5	156.3	154.7	154.2	154.2	154.2
77.5°	118.8	118.0	117.1	114.7	114.8	115.5	115.6
80°	93.8	92.2	91.7	90.5	89.0	87.9	90.5
82.5°	70.1	68.4	67.9	67.7	65.2	65.0	67.3
85°	37.7	36.1	36.7	36.1	36.1	35.6	35.6
87.5°	18.3	18.0	17.7	18.2	17.9	17.5	18.5
90°	24.6	25.3	26.0	26.4	26.8	27.2	27.6
92.5°	37.3	37.9	38.2	37.9	37.7	37.4	37.2
95°	70.6	71.4	71.8	71.8	71.8	71.8	71.8
97.5°	109.4	110.4	110.7	110.7	110.6	110.5	110.4
100°	137.1	137.8	138.2	138.7	139.1	139.5	139.9
102.5°	169.5	170.2	170.4	170.3	170.2	170.2	170.1
105°	217.2	217.2	217.5	217.9	218.2	218.6	219.0
107.5°	270.2	270.8	271.0	270.8	270.5	270.3	270.1
110°	305.3	306.1	306.3	305.9	305.5	305.1	304.7



TEST NUMBER: P332037-927

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	340.4	341.4	341.8	341.7	341.7	341.6	341.5
115°	392.7	392.9	392.9	392.7	392.5	392.3	392.1
117.5°	446.1	446.1	445.8	445.2	444.6	444.0	443.5
120°	481.7	481.5	481.2	480.8	480.4	480.0	479.5
122.5°	517.5	517.0	516.4	515.9	515.3	514.7	514.1
125°	571.0	570.1	569.3	568.5	567.7	566.9	566.1
127.5°	623.8	622.6	621.5	620.6	619.6	618.7	617.8
130°	659.3	658.5	657.4	655.9	654.5	653.1	651.6
132.5°	693.5	692.4	691.4	690.3	689.2	688.1	687.0
135°	744.9	744.1	743.5	743.1	742.7	742.3	741.9
137.5°	795.0	794.2	793.4	792.6	791.9	791.1	790.3
140°	828.7	828.5	827.7	826.2	824.8	823.4	822.0
142.5°	859.6	859.4	858.7	857.6	856.5	855.5	854.4
145°	905.1	904.9	904.4	903.6	902.7	901.9	901.1
147.5°	948.2	948.2	947.6	946.3	945.2	943.9	942.7
150°	974.7	974.7	974.1	972.9	971.7	970.4	969.2
152.5°	999.3	999.6	999.3	998.1	997.1	996.0	995.0
155°	1035.1	1036.0	1035.7	1034.3	1032.8	1031.4	1029.9
157.5°	1065.6	1066.5	1066.4	1065.2	1064.1	1063.0	1061.8
160°	1084.6	1085.6	1085.7	1084.9	1084.0	1083.2	1082.4
162.5°	1102.2	1103.3	1103.1	1101.8	1100.5	1099.2	1097.9
165°	1124.7	1126.0	1125.8	1124.4	1123.0	1121.6	1120.1
167.5°	1142.9	1144.1	1144.1	1142.9	1141.6	1140.3	1139.1
170°	1153.0	1154.4	1154.4	1153.0	1151.5	1150.1	1148.7
172.5°	1160.6	1161.9	1161.8	1160.3	1158.9	1157.5	1156.0
175°	1168.9	1170.1	1170.1	1168.6	1167.2	1165.8	1164.3
177.5°	1172.4	1173.4	1173.3	1172.2	1171.0	1169.9	1168.8
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7

(END OF REPORT)