

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: P331357-830

Luminaire Tested: **SA2XXDIP-C675D925U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331357-830
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-C675D925U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

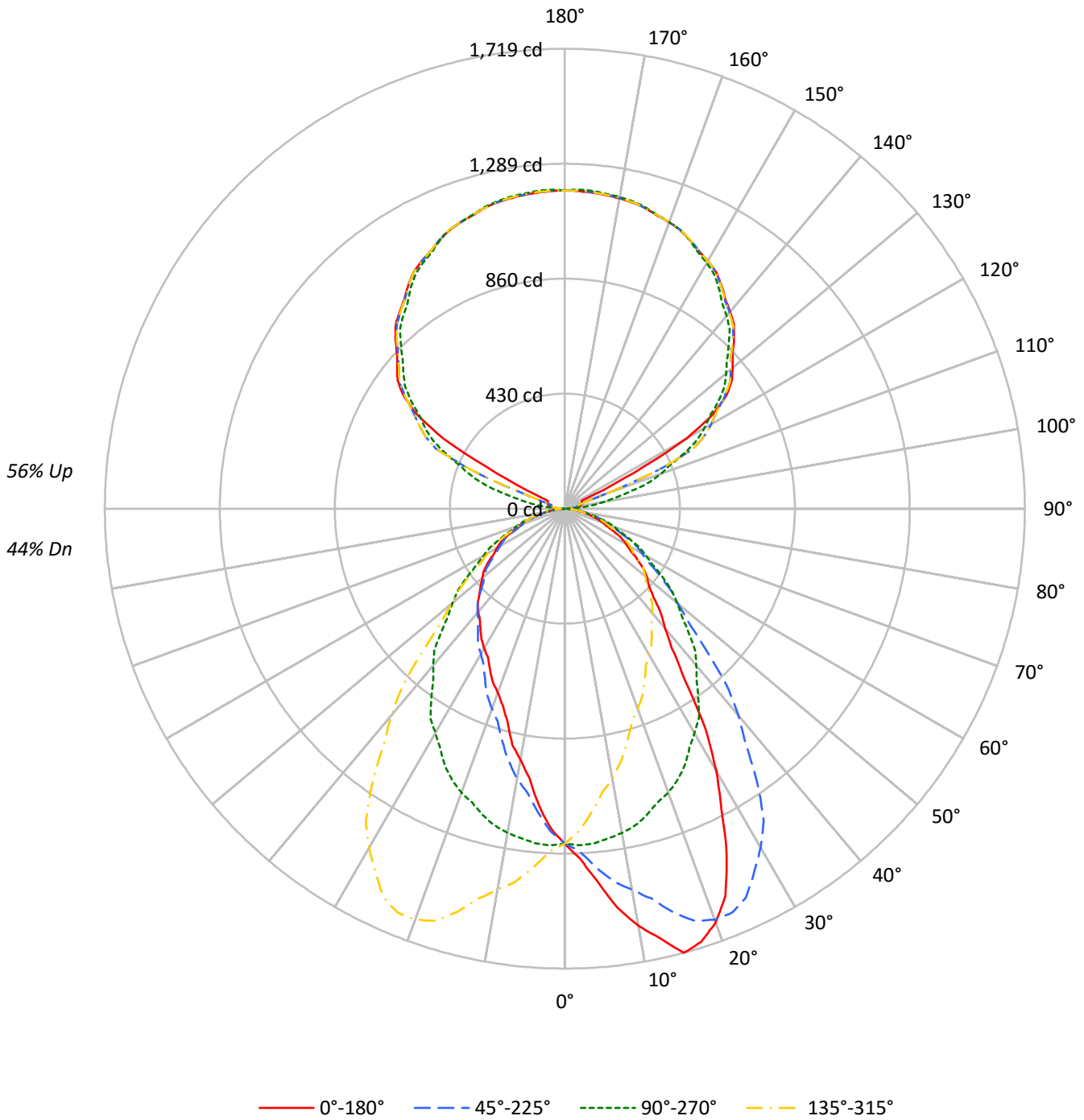
Lumens per Lamp: N/A
Luminaire Lumens: 6251.3 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 52
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38
2	89	81	76	71	81	75	70	66	63	59	56	51	49	46	41	39	37	33
3	81	72	65	59	74	66	60	55	56	51	47	46	42	40	36	34	32	28
4	74	64	56	51	68	59	52	47	50	45	41	41	37	34	33	30	28	24
5	68	57	49	44	62	53	46	41	45	39	35	37	33	30	30	27	25	22
6	63	51	44	38	58	48	41	36	40	35	31	33	30	27	27	24	22	19
7	58	47	39	33	53	43	36	31	37	31	27	31	27	24	25	22	20	17
8	54	42	35	30	50	39	33	28	33	28	25	28	24	21	23	20	18	15
9	51	39	31	26	46	36	29	25	31	26	22	26	22	19	21	18	16	14
10	47	36	28	24	43	33	27	23	28	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20215	20215	20215	20215
5°	22663	20345	18029	20345
10°	25968	20179	15603	20179
15°	28727	19809	13785	19809
20°	28290	19411	12565	19411
25°	25509	18884	11794	18884
30°	21080	18040	11231	18040
35°	15364	17156	10831	17156
40°	12271	16115	10608	16115
45°	10723	14908	10305	14908
50°	10078	13742	10105	13742
55°	9292	12555	9833	12555
60°	8512	11296	9416	11296
65°	7755	10166	9005	10166
70°	7039	9064	8403	9064
75°	6245	7829	7442	7829
80°	5374	6481	5997	6481
85°	4817	4817	3557	4817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	1.9
10°-20°	346.6	5.5
20°-30°	503.1	8.0
30°-40°	530.9	8.5
40°-50°	470.0	7.5
50°-60°	375.1	6.0
60°-70°	254.9	4.1
70°-80°	130.7	2.1
80°-90°	34.4	0.6
90°-100°	39.7	0.6
100°-110°	145.5	2.3
110°-120°	389.0	6.2
120°-130°	642.1	10.3
130°-140°	682.9	10.9
140°-150°	634.7	10.2
150°-160°	510.3	8.2
160°-170°	328.8	5.3
170°-180°	113.2	1.8
0°-30°	968.9	15.5
0°-40°	1499.8	24.0
0°-60°	2344.9	37.5
0°-90°	2765.0	44.2
90°-120°	574.2	9.2
90°-150°	2533.9	40.5
90°-180°	3486.0	55.8
0°-180°	6251.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1398	1255	1112	1255	1398	140
15°	1719	1185	825	1185	1719	474
25°	1432	1060	662	1060	1432	647
35°	780	870	550	870	780	507
45°	470	653	451	653	470	369
55°	330	446	349	446	330	296
65°	203	266	236	266	203	202
75°	100	126	119	126	100	107
85°	26	26	19	26	26	29
90°	23	1	23	1	23	12
95°	37	56	37	56	37	35
105°	65	262	65	262	65	68
115°	71	495	71	495	71	177
125°	736	700	736	700	736	637
135°	894	866	894	866	894	689
145°	1020	1005	1020	1005	1020	638
155°	1107	1106	1107	1106	1107	511
165°	1163	1166	1163	1166	1163	328
175°	1185	1192	1185	1192	1185	113
180°	1190	1190	1190	1190	1190	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1309.7	1310.0	1310.9	1304.7	1303.9	1303.9	1298.5	1293.9	1288.5	1281.2	1282.0
5°	1398.3	1403.5	1405.4	1399.7	1391.0	1390.1	1381.9	1368.4	1355.8	1345.8	1338.6
7.5°	1503.9	1506.0	1501.3	1493.6	1487.2	1475.7	1460.5	1445.6	1424.7	1405.5	1391.3
10°	1583.9	1586.9	1578.7	1567.6	1558.5	1545.0	1522.9	1500.2	1472.8	1446.3	1425.1
12.5°	1644.7	1651.9	1641.4	1639.9	1624.3	1605.8	1579.4	1568.0	1529.4	1492.5	1469.8
15°	1718.6	1718.2	1719.2	1710.1	1698.5	1695.5	1667.6	1637.4	1583.0	1561.3	1523.8
17.5°	1697.3	1704.6	1708.0	1707.9	1707.6	1705.8	1696.9	1677.7	1650.5	1615.3	1572.0
20°	1646.5	1656.1	1657.6	1668.7	1674.9	1683.1	1686.4	1681.1	1664.3	1634.9	1597.4
22.5°	1568.0	1570.7	1575.2	1592.4	1606.0	1626.5	1637.2	1655.0	1648.5	1634.2	1602.8
25°	1431.9	1427.1	1444.0	1452.6	1483.8	1516.6	1540.2	1566.1	1589.2	1603.2	1594.0
27.5°	1268.5	1261.3	1286.5	1309.5	1334.9	1370.4	1407.1	1450.5	1486.6	1531.7	1547.2
30°	1130.7	1135.0	1159.1	1183.6	1222.1	1272.1	1313.5	1361.2	1412.7	1463.2	1498.3
32.5°	982.1	998.8	1014.0	1051.6	1085.4	1141.3	1201.9	1261.5	1325.7	1383.1	1437.5
35°	779.5	798.7	819.9	847.3	894.9	950.3	1009.5	1089.8	1177.4	1255.8	1320.3
37.5°	656.1	653.0	665.2	684.9	723.6	768.2	836.3	915.8	1018.8	1111.0	1201.9
40°	582.2	580.2	588.9	607.2	636.6	669.3	729.0	798.7	894.5	1007.0	1115.3
42.5°	531.4	532.5	537.3	550.3	570.3	597.3	642.0	701.3	789.0	895.0	1011.3
45°	469.6	473.0	478.2	484.6	496.1	518.2	543.2	585.6	654.9	743.4	857.9
47.5°	425.2	425.3	430.6	436.1	443.0	455.4	475.9	502.4	551.3	623.4	721.8
50°	401.2	397.9	401.8	406.0	413.3	422.0	435.5	460.4	493.1	551.4	633.7
52.5°	372.0	372.1	375.6	377.2	383.7	392.3	404.6	422.0	451.6	497.1	564.8
55°	330.1	332.4	334.4	337.2	343.1	349.3	358.9	370.5	393.6	427.7	477.8
57.5°	290.6	291.3	293.3	298.8	302.5	308.2	317.4	327.8	342.9	368.2	405.8
60°	263.6	263.6	267.5	269.9	274.8	280.5	287.8	297.8	311.3	332.0	362.3
62.5°	239.0	238.7	240.2	244.1	247.8	253.2	260.4	269.0	281.6	300.0	325.0
65°	203.0	202.1	205.0	205.9	209.8	215.1	220.8	230.0	240.1	253.5	275.7
67.5°	168.4	169.6	171.1	173.0	175.0	180.6	184.5	191.0	199.4	210.7	225.6
70°	149.1	149.1	149.1	150.6	153.4	156.4	160.2	165.5	173.7	183.3	196.8
72.5°	127.6	129.1	130.6	129.8	133.5	135.2	139.8	142.8	150.6	156.7	168.7
75°	100.1	100.1	100.1	102.5	104.0	105.4	108.3	111.1	115.0	122.7	128.9
77.5°	74.6	74.5	74.9	75.5	77.1	78.8	79.6	82.3	85.9	89.4	94.7
80°	57.8	58.7	59.2	60.1	60.1	61.1	61.5	64.9	67.4	69.7	73.1
82.5°	44.7	44.9	45.0	45.1	45.5	46.1	47.3	48.4	49.3	51.3	53.9
85°	26.0	25.5	25.5	26.5	26.0	26.0	27.0	27.9	27.9	28.4	29.8
87.5°	14.6	14.6	14.9	14.4	14.3	14.6	14.4	13.9	14.0	14.2	14.3
90°	23.3	22.9	22.4	22.1	21.7	21.0	20.1	19.1	18.2	17.2	15.6
92.5°	23.3	23.0	22.8	22.5	22.3	22.0	21.5	20.9	20.5	20.0	19.2
95°	37.0	37.2	37.4	37.6	37.8	37.4	36.5	35.4	34.5	33.6	32.2
97.5°	49.4	49.2	48.9	48.7	48.4	48.0	47.2	46.5	45.7	45.0	41.8
100°	57.7	57.3	56.9	56.6	56.2	55.2	53.6	52.1	50.6	49.1	45.8
102.5°	61.8	61.3	60.7	60.2	59.7	58.4	56.5	54.4	52.4	50.4	77.7
105°	65.4	64.7	63.9	63.2	62.4	60.9	58.8	56.7	54.6	52.5	104.7
107.5°	67.3	66.5	65.8	65.0	64.3	64.9	67.1	69.2	71.4	73.5	136.1
110°	68.1	67.2	66.4	65.7	64.9	74.1	93.2	112.4	131.5	150.6	205.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	68.7	68.1	67.5	66.8	66.3	100.9	170.6	240.4	310.2	379.9	393.6
115°	70.6	84.4	98.1	111.9	125.6	176.8	265.4	354.0	442.5	531.1	526.3
117.5°	288.2	333.5	378.7	424.0	469.2	502.6	524.1	545.4	566.8	588.2	585.0
120°	525.1	550.9	576.7	602.6	628.4	640.2	637.9	635.6	633.3	630.9	627.5
122.5°	655.3	660.3	665.2	670.3	675.3	677.1	675.7	674.4	673.0	671.7	667.9
125°	736.0	735.5	734.8	734.2	733.7	732.7	731.4	730.1	728.8	727.4	723.8
127.5°	786.9	786.8	786.7	786.6	786.5	785.5	783.5	781.6	779.6	777.7	775.0
130°	818.6	818.8	819.0	819.3	819.4	818.4	816.3	814.3	812.1	810.0	807.9
132.5°	849.6	849.8	850.0	850.2	850.4	849.6	847.8	846.0	844.2	842.4	840.3
135°	894.4	894.8	895.1	895.5	895.9	895.1	893.2	891.4	889.4	887.5	885.8
137.5°	935.2	935.9	936.5	937.2	937.8	937.2	935.3	933.4	931.5	929.7	927.7
140°	960.6	961.7	962.6	963.6	964.5	964.1	962.4	960.6	958.9	957.2	955.2
142.5°	985.4	986.5	987.4	988.4	989.3	989.0	987.4	985.8	984.3	982.7	980.3
145°	1020.1	1021.1	1022.0	1022.9	1023.9	1023.7	1022.4	1021.1	1019.6	1018.3	1015.1
147.5°	1050.6	1051.3	1052.2	1052.9	1053.8	1053.7	1052.6	1051.7	1050.7	1049.7	1046.5
150°	1069.1	1070.1	1071.0	1072.0	1073.0	1072.9	1071.8	1070.5	1069.4	1068.3	1065.3
152.5°	1085.0	1086.3	1087.5	1088.7	1090.1	1090.1	1088.9	1087.8	1086.7	1085.5	1082.6
155°	1107.0	1108.5	1110.0	1111.6	1113.1	1113.3	1112.2	1111.1	1109.8	1108.7	1106.5
157.5°	1127.2	1128.6	1130.1	1131.6	1133.1	1133.2	1131.9	1130.6	1129.4	1128.0	1126.4
160°	1138.9	1140.2	1141.5	1142.8	1144.2	1144.3	1143.2	1142.0	1140.9	1139.7	1138.6
162.5°	1148.5	1150.2	1151.8	1153.5	1155.1	1155.3	1154.0	1152.6	1151.3	1150.1	1149.1
165°	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3	1167.0	1165.6	1164.3	1163.0	1162.4
167.5°	1172.1	1173.8	1175.5	1177.2	1178.9	1179.2	1177.8	1176.5	1175.2	1173.8	1173.3
170°	1177.6	1179.3	1181.0	1182.8	1184.5	1184.7	1183.4	1182.0	1180.6	1179.3	1178.9
172.5°	1181.8	1183.5	1185.2	1186.8	1188.6	1188.8	1187.5	1186.1	1184.8	1183.5	1183.1
175°	1185.3	1187.2	1189.2	1191.1	1193.0	1193.3	1191.9	1190.6	1189.3	1187.9	1187.5
177.5°	1187.6	1188.9	1190.3	1191.8	1193.1	1193.3	1192.2	1191.1	1190.1	1188.9	1188.8
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1284.7	1281.6	1279.7	1272.7	1266.6	1260.5	1258.5	1259.2	1250.8	1242.7	1239.3
5°	1334.7	1325.1	1316.0	1303.0	1287.6	1270.7	1262.1	1255.3	1238.5	1220.2	1209.7
7.5°	1379.6	1365.8	1348.2	1323.7	1301.4	1274.9	1258.0	1243.1	1218.4	1192.7	1176.9
10°	1406.9	1388.1	1365.5	1335.7	1308.2	1276.0	1253.4	1230.8	1201.9	1171.1	1151.9
12.5°	1430.4	1405.0	1382.8	1344.5	1312.1	1271.8	1244.9	1213.1	1182.7	1146.1	1127.3
15°	1486.3	1439.6	1397.2	1354.0	1314.0	1257.7	1227.9	1185.1	1145.1	1099.9	1078.3
17.5°	1529.5	1477.1	1410.3	1355.3	1308.7	1246.4	1202.6	1151.3	1104.1	1052.3	1022.9
20°	1554.2	1493.9	1422.3	1356.9	1301.0	1229.8	1182.2	1129.7	1074.4	1016.2	984.4
22.5°	1568.8	1505.5	1434.6	1351.0	1285.6	1216.4	1156.4	1098.9	1042.8	980.1	946.7
25°	1573.4	1515.6	1440.6	1346.2	1266.4	1188.0	1115.8	1060.0	992.1	933.4	884.9
27.5°	1550.5	1509.1	1436.9	1337.2	1244.2	1152.4	1072.0	1008.8	937.2	873.5	824.6
30°	1522.4	1498.3	1428.0	1327.9	1226.4	1127.8	1039.2	967.6	896.4	831.9	781.8
32.5°	1478.8	1473.7	1411.9	1314.8	1207.6	1096.6	1005.0	932.6	853.7	790.3	742.6
35°	1393.5	1416.5	1377.5	1285.6	1172.1	1052.3	953.2	870.4	788.6	728.0	683.2
37.5°	1278.9	1336.2	1326.1	1242.8	1124.2	1004.0	894.6	808.0	730.1	668.9	625.0
40°	1200.0	1273.1	1283.7	1210.1	1090.3	966.7	850.6	764.6	688.5	632.7	588.4
42.5°	1115.3	1200.8	1229.8	1170.8	1053.3	927.4	811.4	722.2	647.0	592.7	553.5
45°	973.4	1086.5	1138.9	1105.2	991.6	862.7	743.4	652.9	584.6	533.6	503.3
47.5°	840.7	964.2	1034.7	1022.8	923.0	795.3	677.4	590.6	524.1	483.3	456.2
50°	746.8	873.7	958.9	962.8	873.7	747.2	628.9	547.1	486.0	448.0	425.8
52.5°	665.2	786.4	879.3	899.7	818.7	697.2	585.4	504.0	450.2	415.2	395.4
55°	558.6	661.1	764.0	801.6	736.6	621.1	517.7	446.0	395.5	371.5	354.1
57.5°	464.4	549.9	645.0	686.5	646.4	547.5	450.5	388.3	347.3	326.2	312.9
60°	414.7	482.1	566.8	616.3	581.7	493.7	409.0	349.8	316.1	297.4	284.8
62.5°	368.5	428.2	499.8	545.2	526.3	443.3	367.4	315.2	286.1	268.4	259.5
65°	304.1	351.3	406.6	448.5	435.9	372.9	310.9	266.1	243.0	229.0	221.8
67.5°	250.4	284.5	322.8	359.5	349.4	304.7	255.0	220.1	202.8	190.9	186.5
70°	216.5	242.5	276.6	306.0	297.8	261.3	221.8	192.0	177.1	166.9	162.6
72.5°	184.2	205.6	231.6	255.6	250.1	219.7	186.8	164.3	152.8	143.5	139.9
75°	139.0	155.4	171.3	187.2	185.7	162.1	142.9	125.5	116.4	109.2	107.7
77.5°	102.6	111.8	122.6	132.1	129.4	115.9	100.9	91.0	84.2	79.4	78.6
80°	78.4	83.7	91.4	98.1	94.8	89.0	77.0	69.7	64.9	60.1	58.2
82.5°	56.8	62.2	66.8	70.4	67.9	62.5	55.0	50.1	47.2	44.0	43.2
85°	29.8	32.7	34.7	35.6	34.7	31.3	27.9	26.0	23.6	22.1	21.7
87.5°	14.4	14.0	13.8	14.1	12.6	12.2	10.2	8.7	8.7	8.7	8.4
90°	14.1	12.6	11.1	9.2	7.2	5.1	2.9	0.8	2.9	5.1	7.2
92.5°	18.5	17.7	16.9	16.6	16.8	17.0	17.2	17.3	17.2	17.0	16.8
95°	30.9	29.6	28.2	30.7	37.0	43.4	49.7	56.0	49.7	43.4	37.0
97.5°	38.7	35.6	32.5	39.9	57.7	75.5	93.2	111.0	93.2	75.5	57.7
100°	42.6	39.3	36.1	47.5	73.7	99.9	126.1	152.4	126.1	99.9	73.7
102.5°	104.8	132.1	159.3	175.6	181.2	186.7	192.3	197.8	192.3	186.7	181.2
105°	156.9	209.2	261.4	284.6	278.9	273.1	267.4	261.6	267.4	273.1	278.9
107.5°	198.8	261.4	324.0	353.1	348.4	343.7	339.1	334.5	339.1	343.7	348.4
110°	261.2	316.5	371.7	397.4	393.4	389.4	385.4	381.4	385.4	389.4	393.4



TEST NUMBER: P331357-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	407.3	420.9	434.6	439.6	436.1	432.5	429.0	425.4	429.0	432.5	436.1
115°	521.6	516.8	512.0	507.9	504.7	501.4	498.2	494.9	498.2	501.4	504.7
117.5°	581.7	578.4	575.1	571.7	568.1	564.4	560.7	557.1	560.7	564.4	568.1
120°	624.1	620.7	617.2	614.1	611.1	608.3	605.4	602.6	605.4	608.3	611.1
122.5°	664.1	660.3	656.6	653.2	650.2	647.1	644.1	641.1	644.1	647.1	650.2
125°	720.1	716.5	712.8	709.8	707.3	704.8	702.3	699.8	702.3	704.8	707.3
127.5°	772.2	769.5	766.8	764.0	761.3	758.6	755.8	753.0	755.8	758.6	761.3
130°	805.8	803.7	801.6	799.0	796.0	792.9	789.9	786.8	789.9	792.9	796.0
132.5°	838.2	836.1	834.0	831.6	829.1	826.4	823.8	821.2	823.8	826.4	829.1
135°	884.1	882.3	880.6	878.3	875.2	872.1	869.0	866.0	869.0	872.1	875.2
137.5°	925.8	923.8	921.9	919.8	917.7	915.6	913.4	911.3	913.4	915.6	917.7
140°	953.0	950.9	948.9	947.0	945.5	944.0	942.4	940.8	942.4	944.0	945.5
142.5°	977.9	975.4	973.1	971.2	969.8	968.5	967.0	965.6	967.0	968.5	969.8
145°	1011.8	1008.6	1005.3	1003.8	1004.0	1004.2	1004.4	1004.6	1004.4	1004.2	1004.0
147.5°	1043.3	1040.0	1036.8	1035.6	1036.3	1037.1	1037.7	1038.5	1037.7	1037.1	1036.3
150°	1062.2	1059.1	1056.0	1055.2	1056.5	1057.8	1059.2	1060.5	1059.2	1057.8	1056.5
152.5°	1079.7	1076.8	1073.8	1073.2	1074.7	1076.1	1077.6	1079.1	1077.6	1076.1	1074.7
155°	1104.2	1101.8	1099.6	1099.3	1101.0	1102.7	1104.5	1106.2	1104.5	1102.7	1101.0
157.5°	1124.8	1123.2	1121.6	1121.5	1122.9	1124.5	1125.9	1127.3	1125.9	1124.5	1122.9
160°	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1138.6	1137.5	1136.2
162.5°	1148.0	1147.1	1146.0	1146.1	1147.3	1148.5	1149.6	1150.8	1149.6	1148.5	1147.3
165°	1161.8	1161.2	1160.6	1160.9	1162.1	1163.3	1164.4	1165.5	1164.4	1163.3	1162.1
167.5°	1172.7	1172.2	1171.7	1172.0	1173.1	1174.3	1175.4	1176.6	1175.4	1174.3	1173.1
170°	1178.6	1178.2	1177.8	1178.2	1179.3	1180.4	1181.6	1182.8	1181.6	1180.4	1179.3
172.5°	1182.7	1182.3	1181.9	1182.3	1183.5	1184.6	1185.7	1186.8	1185.7	1184.6	1183.5
175°	1187.1	1186.8	1186.4	1186.8	1188.2	1189.6	1190.9	1192.2	1190.9	1189.6	1188.2
177.5°	1188.6	1188.5	1188.4	1188.8	1189.9	1191.0	1192.0	1193.1	1192.0	1191.0	1189.9
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331357-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1235.4	1233.1	1225.0	1220.8	1213.8	1207.3	1203.1	1205.0	1206.5	1205.8	1204.6
5°	1200.0	1190.8	1176.9	1164.9	1156.2	1140.3	1133.6	1130.2	1127.4	1124.0	1120.6
7.5°	1157.8	1143.4	1123.4	1106.3	1090.1	1070.4	1059.1	1052.3	1045.5	1037.8	1031.1
10°	1127.8	1107.6	1086.5	1062.3	1043.1	1025.3	1009.5	998.9	989.3	980.1	973.4
12.5°	1096.3	1073.0	1046.8	1013.9	992.7	967.2	964.8	946.1	931.1	925.5	917.6
15°	1046.0	1013.3	980.1	941.1	924.3	901.2	886.7	872.3	859.3	850.2	847.8
17.5°	988.9	946.6	913.6	885.6	858.0	834.3	821.0	809.5	798.8	786.6	784.9
20°	945.5	908.9	872.8	848.3	819.9	795.8	779.5	767.9	758.7	751.6	745.3
22.5°	904.3	864.2	831.2	804.4	776.4	757.0	744.0	732.9	725.3	717.3	711.4
25°	838.2	806.9	770.8	740.5	717.4	704.9	694.3	684.7	679.9	674.6	667.9
27.5°	780.3	745.6	711.8	688.3	668.1	657.0	649.4	642.9	638.4	635.3	631.5
30°	739.5	704.4	678.0	654.9	638.0	627.0	622.2	618.3	613.0	611.1	609.2
32.5°	700.3	668.6	646.0	625.9	609.9	602.7	598.2	594.8	590.7	588.7	584.8
35°	644.7	618.3	596.2	585.0	572.1	565.8	562.5	557.6	553.8	551.9	551.4
37.5°	592.5	569.5	555.0	540.7	535.3	531.4	526.8	523.5	522.4	522.1	521.6
40°	558.6	539.9	526.9	515.3	512.9	507.1	503.3	500.4	500.4	500.9	500.4
42.5°	527.8	511.0	499.5	489.6	486.7	483.2	479.4	479.2	480.0	481.6	480.0
45°	481.2	469.1	460.9	456.1	450.8	447.4	447.0	448.5	448.9	449.4	450.8
47.5°	438.2	430.3	422.8	417.5	415.2	414.6	414.1	416.6	418.9	419.7	422.0
50°	412.8	403.7	397.5	394.1	392.1	391.2	392.1	395.0	396.9	399.4	400.8
52.5°	384.4	377.9	373.5	371.0	370.2	370.8	371.0	374.3	377.3	378.1	378.9
55°	345.0	340.2	339.2	334.9	336.8	336.3	338.7	340.6	343.6	346.4	346.9
57.5°	305.8	301.9	299.3	299.6	300.2	302.4	304.3	307.7	310.9	313.9	314.1
60°	279.6	277.6	276.2	276.2	277.1	280.0	282.5	285.8	287.8	289.6	291.1
62.5°	255.7	253.7	252.3	253.1	255.6	257.3	260.1	261.9	263.8	265.8	266.5
65°	217.9	217.0	218.5	219.4	219.9	222.3	225.6	227.1	229.0	230.0	233.4
67.5°	183.2	183.4	183.2	184.5	187.4	187.9	191.1	194.4	194.8	196.7	198.9
70°	159.8	160.7	161.6	162.6	165.0	166.0	168.4	169.8	171.7	173.2	174.7
72.5°	138.2	138.4	139.3	139.1	141.2	143.3	145.3	146.8	148.6	150.5	151.9
75°	106.3	106.3	107.3	107.7	110.2	112.6	112.1	113.1	115.0	116.9	117.9
77.5°	77.7	76.6	77.7	78.1	78.9	81.0	81.3	82.7	84.8	84.2	85.3
80°	59.2	57.8	59.2	59.7	59.7	62.1	62.1	63.1	64.5	63.1	64.5
82.5°	42.2	41.6	42.6	42.7	43.5	43.5	44.4	44.6	46.0	45.3	46.0
85°	21.2	20.7	21.2	20.7	21.2	21.7	21.7	21.2	21.2	22.1	20.7
87.5°	8.4	8.4	8.3	8.6	8.5	8.5	8.3	8.5	8.7	8.0	8.2
90°	9.2	11.1	12.6	14.1	15.6	17.2	18.2	19.1	20.1	21.0	21.7
92.5°	16.6	16.9	17.7	18.5	19.2	20.0	20.5	20.9	21.5	22.0	22.3
95°	30.7	28.2	29.6	30.9	32.2	33.6	34.5	35.4	36.5	37.4	37.8
97.5°	39.9	32.5	35.6	38.7	41.8	45.0	45.7	46.5	47.2	48.0	48.4
100°	47.5	36.1	39.3	42.6	45.8	49.1	50.6	52.1	53.6	55.2	56.2
102.5°	175.6	159.3	132.1	104.8	77.7	50.4	52.4	54.4	56.5	58.4	59.7
105°	284.6	261.4	209.2	156.9	104.7	52.5	54.6	56.7	58.8	60.9	62.4
107.5°	353.1	324.0	261.4	198.8	136.1	73.5	71.4	69.2	67.1	64.9	64.3
110°	397.4	371.7	316.5	261.2	205.9	150.6	131.5	112.4	93.2	74.1	64.9



TEST NUMBER: P331357-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	439.6	434.6	420.9	407.3	393.6	379.9	310.2	240.4	170.6	100.9	66.3
115°	507.9	512.0	516.8	521.6	526.3	531.1	442.5	354.0	265.4	176.8	125.6
117.5°	571.7	575.1	578.4	581.7	585.0	588.2	566.8	545.4	524.1	502.6	469.2
120°	614.1	617.2	620.7	624.1	627.5	630.9	633.3	635.6	637.9	640.2	628.4
122.5°	653.2	656.6	660.3	664.1	667.9	671.7	673.0	674.4	675.7	677.1	675.3
125°	709.8	712.8	716.5	720.1	723.8	727.4	728.8	730.1	731.4	732.7	733.7
127.5°	764.0	766.8	769.5	772.2	775.0	777.7	779.6	781.6	783.5	785.5	786.5
130°	799.0	801.6	803.7	805.8	807.9	810.0	812.1	814.3	816.3	818.4	819.4
132.5°	831.6	834.0	836.1	838.2	840.3	842.4	844.2	846.0	847.8	849.6	850.4
135°	878.3	880.6	882.3	884.1	885.8	887.5	889.4	891.4	893.2	895.1	895.9
137.5°	919.8	921.9	923.8	925.8	927.7	929.7	931.5	933.4	935.3	937.2	937.8
140°	947.0	948.9	950.9	953.0	955.2	957.2	958.9	960.6	962.4	964.1	964.5
142.5°	971.2	973.1	975.4	977.9	980.3	982.7	984.3	985.8	987.4	989.0	989.3
145°	1003.8	1005.3	1008.6	1011.8	1015.1	1018.3	1019.6	1021.1	1022.4	1023.7	1023.9
147.5°	1035.6	1036.8	1040.0	1043.3	1046.5	1049.7	1050.7	1051.7	1052.6	1053.7	1053.8
150°	1055.2	1056.0	1059.1	1062.2	1065.3	1068.3	1069.4	1070.5	1071.8	1072.9	1073.0
152.5°	1073.2	1073.8	1076.8	1079.7	1082.6	1085.5	1086.7	1087.8	1088.9	1090.1	1090.1
155°	1099.3	1099.6	1101.8	1104.2	1106.5	1108.7	1109.8	1111.1	1112.2	1113.3	1113.1
157.5°	1121.5	1121.6	1123.2	1124.8	1126.4	1128.0	1129.4	1130.6	1131.9	1133.2	1133.1
160°	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1140.9	1142.0	1143.2	1144.3	1144.2
162.5°	1146.1	1146.0	1147.1	1148.0	1149.1	1150.1	1151.3	1152.6	1154.0	1155.3	1155.1
165°	1160.9	1160.6	1161.2	1161.8	1162.4	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3
167.5°	1172.0	1171.7	1172.2	1172.7	1173.3	1173.8	1175.2	1176.5	1177.8	1179.2	1178.9
170°	1178.2	1177.8	1178.2	1178.6	1178.9	1179.3	1180.6	1182.0	1183.4	1184.7	1184.5
172.5°	1182.3	1181.9	1182.3	1182.7	1183.1	1183.5	1184.8	1186.1	1187.5	1188.8	1188.6
175°	1186.8	1186.4	1186.8	1187.1	1187.5	1187.9	1189.3	1190.6	1191.9	1193.3	1193.0
177.5°	1188.8	1188.4	1188.5	1188.6	1188.8	1188.9	1190.1	1191.1	1192.2	1193.3	1193.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331357-830
 CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1200.8	1200.0	1200.0	1196.6	1200.0	1200.0	1200.8	1204.6	1205.8	1206.5	1205.0
5°	1113.9	1112.4	1110.0	1112.4	1110.0	1112.4	1113.9	1120.6	1124.0	1127.4	1130.2
7.5°	1027.9	1022.2	1021.3	1015.6	1021.3	1022.2	1027.9	1031.1	1037.8	1045.5	1052.3
10°	965.2	961.3	960.8	951.7	960.8	961.3	965.2	973.4	980.1	989.3	998.9
12.5°	917.5	908.2	910.0	904.7	910.0	908.2	917.5	917.6	925.5	931.1	946.1
15°	834.8	834.8	832.8	824.7	832.8	834.8	834.8	847.8	850.2	859.3	872.3
17.5°	775.4	774.5	769.9	772.1	769.9	774.5	775.4	784.9	786.6	798.8	809.5
20°	740.0	737.2	731.3	731.3	731.3	737.2	740.0	745.3	751.6	758.7	767.9
22.5°	706.5	706.3	700.2	702.1	700.2	706.3	706.5	711.4	717.3	725.3	732.9
25°	667.3	663.5	660.6	662.0	660.6	663.5	667.3	667.9	674.6	679.9	684.7
27.5°	630.2	628.1	627.9	624.0	627.9	628.1	630.2	631.5	635.3	638.4	642.9
30°	608.7	603.9	604.8	602.4	604.8	603.9	608.7	609.2	611.1	613.0	618.3
32.5°	584.0	582.3	581.4	579.3	581.4	582.3	584.0	584.8	588.7	590.7	594.8
35°	550.4	550.9	548.6	549.5	548.6	550.9	550.4	551.4	551.9	553.8	557.6
37.5°	521.1	522.6	521.5	521.8	521.5	522.6	521.1	521.6	522.1	522.4	523.5
40°	501.8	501.8	501.8	503.3	501.8	501.8	501.8	500.4	500.9	500.4	500.4
42.5°	483.3	482.6	481.8	481.7	481.8	482.6	483.3	480.0	481.6	480.0	479.2
45°	451.8	453.3	453.7	451.3	453.7	453.3	451.8	450.8	449.4	448.9	448.5
47.5°	423.2	423.4	423.2	425.4	423.2	423.4	423.2	422.0	419.7	418.9	416.6
50°	403.2	402.3	403.2	402.3	403.2	402.3	403.2	400.8	399.4	396.9	395.0
52.5°	382.0	382.2	381.6	381.4	381.6	382.2	382.0	378.9	378.1	377.3	374.3
55°	348.8	349.8	349.3	349.3	349.3	349.8	348.8	346.9	346.4	343.6	340.6
57.5°	314.5	315.4	316.0	313.9	316.0	315.4	314.5	314.1	313.9	310.9	307.7
60°	290.6	293.0	292.6	291.6	292.6	293.0	290.6	291.1	289.6	287.8	285.8
62.5°	268.7	269.6	269.5	269.3	269.5	269.6	268.7	266.5	265.8	263.8	261.9
65°	234.8	235.7	234.3	235.7	234.3	235.7	234.8	233.4	230.0	229.0	227.1
67.5°	198.3	198.6	199.7	200.4	199.7	198.6	198.3	198.9	196.7	194.8	194.4
70°	175.6	175.1	176.5	178.0	176.5	175.1	175.6	174.7	173.2	171.7	169.8
72.5°	151.7	152.8	152.3	153.4	152.3	152.8	151.7	151.9	150.5	148.6	146.8
75°	116.9	118.4	117.9	119.3	117.9	118.4	116.9	117.9	116.9	115.0	113.1
77.5°	84.5	84.6	84.5	85.3	84.5	84.6	84.5	85.3	84.2	84.8	82.7
80°	64.5	63.5	62.6	64.5	62.6	63.5	64.5	64.5	63.1	64.5	63.1
82.5°	44.9	45.4	44.5	44.5	44.5	45.4	44.9	46.0	45.3	46.0	44.6
85°	20.7	20.2	19.2	19.2	19.2	20.2	20.7	20.7	22.1	21.2	21.2
87.5°	8.3	7.9	8.0	7.7	8.0	7.9	8.3	8.2	8.0	8.7	8.5
90°	22.1	22.4	22.9	23.3	22.9	22.4	22.1	21.7	21.0	20.1	19.1
92.5°	22.5	22.8	23.0	23.3	23.0	22.8	22.5	22.3	22.0	21.5	20.9
95°	37.6	37.4	37.2	37.0	37.2	37.4	37.6	37.8	37.4	36.5	35.4
97.5°	48.7	48.9	49.2	49.4	49.2	48.9	48.7	48.4	48.0	47.2	46.5
100°	56.6	56.9	57.3	57.7	57.3	56.9	56.6	56.2	55.2	53.6	52.1
102.5°	60.2	60.7	61.3	61.8	61.3	60.7	60.2	59.7	58.4	56.5	54.4
105°	63.2	63.9	64.7	65.4	64.7	63.9	63.2	62.4	60.9	58.8	56.7
107.5°	65.0	65.8	66.5	67.3	66.5	65.8	65.0	64.3	64.9	67.1	69.2
110°	65.7	66.4	67.2	68.1	67.2	66.4	65.7	64.9	74.1	93.2	112.4



TEST NUMBER: P331357-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	66.8	67.5	68.1	68.7	68.1	67.5	66.8	66.3	100.9	170.6	240.4
115°	111.9	98.1	84.4	70.6	84.4	98.1	111.9	125.6	176.8	265.4	354.0
117.5°	424.0	378.7	333.5	288.2	333.5	378.7	424.0	469.2	502.6	524.1	545.4
120°	602.6	576.7	550.9	525.1	550.9	576.7	602.6	628.4	640.2	637.9	635.6
122.5°	670.3	665.2	660.3	655.3	660.3	665.2	670.3	675.3	677.1	675.7	674.4
125°	734.2	734.8	735.5	736.0	735.5	734.8	734.2	733.7	732.7	731.4	730.1
127.5°	786.6	786.7	786.8	786.9	786.8	786.7	786.6	786.5	785.5	783.5	781.6
130°	819.3	819.0	818.8	818.6	818.8	819.0	819.3	819.4	818.4	816.3	814.3
132.5°	850.2	850.0	849.8	849.6	849.8	850.0	850.2	850.4	849.6	847.8	846.0
135°	895.5	895.1	894.8	894.4	894.8	895.1	895.5	895.9	895.1	893.2	891.4
137.5°	937.2	936.5	935.9	935.2	935.9	936.5	937.2	937.8	937.2	935.3	933.4
140°	963.6	962.6	961.7	960.6	961.7	962.6	963.6	964.5	964.1	962.4	960.6
142.5°	988.4	987.4	986.5	985.4	986.5	987.4	988.4	989.3	989.0	987.4	985.8
145°	1022.9	1022.0	1021.1	1020.1	1021.1	1022.0	1022.9	1023.9	1023.7	1022.4	1021.1
147.5°	1052.9	1052.2	1051.3	1050.6	1051.3	1052.2	1052.9	1053.8	1053.7	1052.6	1051.7
150°	1072.0	1071.0	1070.1	1069.1	1070.1	1071.0	1072.0	1073.0	1072.9	1071.8	1070.5
152.5°	1088.7	1087.5	1086.3	1085.0	1086.3	1087.5	1088.7	1090.1	1090.1	1088.9	1087.8
155°	1111.6	1110.0	1108.5	1107.0	1108.5	1110.0	1111.6	1113.1	1113.3	1112.2	1111.1
157.5°	1131.6	1130.1	1128.6	1127.2	1128.6	1130.1	1131.6	1133.1	1133.2	1131.9	1130.6
160°	1142.8	1141.5	1140.2	1138.9	1140.2	1141.5	1142.8	1144.2	1144.3	1143.2	1142.0
162.5°	1153.5	1151.8	1150.2	1148.5	1150.2	1151.8	1153.5	1155.1	1155.3	1154.0	1152.6
165°	1167.0	1165.6	1164.3	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3	1167.0	1165.6
167.5°	1177.2	1175.5	1173.8	1172.1	1173.8	1175.5	1177.2	1178.9	1179.2	1177.8	1176.5
170°	1182.8	1181.0	1179.3	1177.6	1179.3	1181.0	1182.8	1184.5	1184.7	1183.4	1182.0
172.5°	1186.8	1185.2	1183.5	1181.8	1183.5	1185.2	1186.8	1188.6	1188.8	1187.5	1186.1
175°	1191.1	1189.2	1187.2	1185.3	1187.2	1189.2	1191.1	1193.0	1193.3	1191.9	1190.6
177.5°	1191.8	1190.3	1188.9	1187.6	1188.9	1190.3	1191.8	1193.1	1193.3	1192.2	1191.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331357-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1203.1	1207.3	1213.8	1220.8	1225.0	1233.1	1235.4	1239.3	1242.7	1250.8	1259.2
5°	1133.6	1140.3	1156.2	1164.9	1176.9	1190.8	1200.0	1209.7	1220.2	1238.5	1255.3
7.5°	1059.1	1070.4	1090.1	1106.3	1123.4	1143.4	1157.8	1176.9	1192.7	1218.4	1243.1
10°	1009.5	1025.3	1043.1	1062.3	1086.5	1107.6	1127.8	1151.9	1171.1	1201.9	1230.8
12.5°	964.8	967.2	992.7	1013.9	1046.8	1073.0	1096.3	1127.3	1146.1	1182.7	1213.1
15°	886.7	901.2	924.3	941.1	980.1	1013.3	1046.0	1078.3	1099.9	1145.1	1185.1
17.5°	821.0	834.3	858.0	885.6	913.6	946.6	988.9	1022.9	1052.3	1104.1	1151.3
20°	779.5	795.8	819.9	848.3	872.8	908.9	945.5	984.4	1016.2	1074.4	1129.7
22.5°	744.0	757.0	776.4	804.4	831.2	864.2	904.3	946.7	980.1	1042.8	1098.9
25°	694.3	704.9	717.4	740.5	770.8	806.9	838.2	884.9	933.4	992.1	1060.0
27.5°	649.4	657.0	668.1	688.3	711.8	745.6	780.3	824.6	873.5	937.2	1008.8
30°	622.2	627.0	638.0	654.9	678.0	704.4	739.5	781.8	831.9	896.4	967.6
32.5°	598.2	602.7	609.9	625.9	646.0	668.6	700.3	742.6	790.3	853.7	932.6
35°	562.5	565.8	572.1	585.0	596.2	618.3	644.7	683.2	728.0	788.6	870.4
37.5°	526.8	531.4	535.3	540.7	555.0	569.5	592.5	625.0	668.9	730.1	808.0
40°	503.3	507.1	512.9	515.3	526.9	539.9	558.6	588.4	632.7	688.5	764.6
42.5°	479.4	483.2	486.7	489.6	499.5	511.0	527.8	553.5	592.7	647.0	722.2
45°	447.0	447.4	450.8	456.1	460.9	469.1	481.2	503.3	533.6	584.6	652.9
47.5°	414.1	414.6	415.2	417.5	422.8	430.3	438.2	456.2	483.3	524.1	590.6
50°	392.1	391.2	392.1	394.1	397.5	403.7	412.8	425.8	448.0	486.0	547.1
52.5°	371.0	370.8	370.2	371.0	373.5	377.9	384.4	395.4	415.2	450.2	504.0
55°	338.7	336.3	336.8	334.9	339.2	340.2	345.0	354.1	371.5	395.5	446.0
57.5°	304.3	302.4	300.2	299.6	299.3	301.9	305.8	312.9	326.2	347.3	388.3
60°	282.5	280.0	277.1	276.2	276.2	277.6	279.6	284.8	297.4	316.1	349.8
62.5°	260.1	257.3	255.6	253.1	252.3	253.7	255.7	259.5	268.4	286.1	315.2
65°	225.6	222.3	219.9	219.4	218.5	217.0	217.9	221.8	229.0	243.0	266.1
67.5°	191.1	187.9	187.4	184.5	183.2	183.4	183.2	186.5	190.9	202.8	220.1
70°	168.4	166.0	165.0	162.6	161.6	160.7	159.8	162.6	166.9	177.1	192.0
72.5°	145.3	143.3	141.2	139.1	139.3	138.4	138.2	139.9	143.5	152.8	164.3
75°	112.1	112.6	110.2	107.7	107.3	106.3	106.3	107.7	109.2	116.4	125.5
77.5°	81.3	81.0	78.9	78.1	77.7	76.6	77.7	78.6	79.4	84.2	91.0
80°	62.1	62.1	59.7	59.7	59.2	57.8	59.2	58.2	60.1	64.9	69.7
82.5°	44.4	43.5	43.5	42.7	42.6	41.6	42.2	43.2	44.0	47.2	50.1
85°	21.7	21.7	21.2	20.7	21.2	20.7	21.2	21.7	22.1	23.6	26.0
87.5°	8.3	8.5	8.5	8.6	8.3	8.4	8.4	8.4	8.7	8.7	8.7
90°	18.2	17.2	15.6	14.1	12.6	11.1	9.2	7.2	5.1	2.9	0.8
92.5°	20.5	20.0	19.2	18.5	17.7	16.9	16.6	16.8	17.0	17.2	17.3
95°	34.5	33.6	32.2	30.9	29.6	28.2	30.7	37.0	43.4	49.7	56.0
97.5°	45.7	45.0	41.8	38.7	35.6	32.5	39.9	57.7	75.5	93.2	111.0
100°	50.6	49.1	45.8	42.6	39.3	36.1	47.5	73.7	99.9	126.1	152.4
102.5°	52.4	50.4	77.7	104.8	132.1	159.3	175.6	181.2	186.7	192.3	197.8
105°	54.6	52.5	104.7	156.9	209.2	261.4	284.6	278.9	273.1	267.4	261.6
107.5°	71.4	73.5	136.1	198.8	261.4	324.0	353.1	348.4	343.7	339.1	334.5
110°	131.5	150.6	205.9	261.2	316.5	371.7	397.4	393.4	389.4	385.4	381.4



TEST NUMBER: P331357-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	310.2	379.9	393.6	407.3	420.9	434.6	439.6	436.1	432.5	429.0	425.4
115°	442.5	531.1	526.3	521.6	516.8	512.0	507.9	504.7	501.4	498.2	494.9
117.5°	566.8	588.2	585.0	581.7	578.4	575.1	571.7	568.1	564.4	560.7	557.1
120°	633.3	630.9	627.5	624.1	620.7	617.2	614.1	611.1	608.3	605.4	602.6
122.5°	673.0	671.7	667.9	664.1	660.3	656.6	653.2	650.2	647.1	644.1	641.1
125°	728.8	727.4	723.8	720.1	716.5	712.8	709.8	707.3	704.8	702.3	699.8
127.5°	779.6	777.7	775.0	772.2	769.5	766.8	764.0	761.3	758.6	755.8	753.0
130°	812.1	810.0	807.9	805.8	803.7	801.6	799.0	796.0	792.9	789.9	786.8
132.5°	844.2	842.4	840.3	838.2	836.1	834.0	831.6	829.1	826.4	823.8	821.2
135°	889.4	887.5	885.8	884.1	882.3	880.6	878.3	875.2	872.1	869.0	866.0
137.5°	931.5	929.7	927.7	925.8	923.8	921.9	919.8	917.7	915.6	913.4	911.3
140°	958.9	957.2	955.2	953.0	950.9	948.9	947.0	945.5	944.0	942.4	940.8
142.5°	984.3	982.7	980.3	977.9	975.4	973.1	971.2	969.8	968.5	967.0	965.6
145°	1019.6	1018.3	1015.1	1011.8	1008.6	1005.3	1003.8	1004.0	1004.2	1004.4	1004.6
147.5°	1050.7	1049.7	1046.5	1043.3	1040.0	1036.8	1035.6	1036.3	1037.1	1037.7	1038.5
150°	1069.4	1068.3	1065.3	1062.2	1059.1	1056.0	1055.2	1056.5	1057.8	1059.2	1060.5
152.5°	1086.7	1085.5	1082.6	1079.7	1076.8	1073.8	1073.2	1074.7	1076.1	1077.6	1079.1
155°	1109.8	1108.7	1106.5	1104.2	1101.8	1099.6	1099.3	1101.0	1102.7	1104.5	1106.2
157.5°	1129.4	1128.0	1126.4	1124.8	1123.2	1121.6	1121.5	1122.9	1124.5	1125.9	1127.3
160°	1140.9	1139.7	1138.6	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7
162.5°	1151.3	1150.1	1149.1	1148.0	1147.1	1146.0	1146.1	1147.3	1148.5	1149.6	1150.8
165°	1164.3	1163.0	1162.4	1161.8	1161.2	1160.6	1160.9	1162.1	1163.3	1164.4	1165.5
167.5°	1175.2	1173.8	1173.3	1172.7	1172.2	1171.7	1172.0	1173.1	1174.3	1175.4	1176.6
170°	1180.6	1179.3	1178.9	1178.6	1178.2	1177.8	1178.2	1179.3	1180.4	1181.6	1182.8
172.5°	1184.8	1183.5	1183.1	1182.7	1182.3	1181.9	1182.3	1183.5	1184.6	1185.7	1186.8
175°	1189.3	1187.9	1187.5	1187.1	1186.8	1186.4	1186.8	1188.2	1189.6	1190.9	1192.2
177.5°	1190.1	1188.9	1188.8	1188.6	1188.5	1188.4	1188.8	1189.9	1191.0	1192.0	1193.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331357-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1258.5	1260.5	1266.6	1272.7	1279.7	1281.6	1284.7	1282.0	1281.2	1288.5	1293.9
5°	1262.1	1270.7	1287.6	1303.0	1316.0	1325.1	1334.7	1338.6	1345.8	1355.8	1368.4
7.5°	1258.0	1274.9	1301.4	1323.7	1348.2	1365.8	1379.6	1391.3	1405.5	1424.7	1445.6
10°	1253.4	1276.0	1308.2	1335.7	1365.5	1388.1	1406.9	1425.1	1446.3	1472.8	1500.2
12.5°	1244.9	1271.8	1312.1	1344.5	1382.8	1405.0	1430.4	1469.8	1492.5	1529.4	1568.0
15°	1227.9	1257.7	1314.0	1354.0	1397.2	1439.6	1486.3	1523.8	1561.3	1583.0	1637.4
17.5°	1202.6	1246.4	1308.7	1355.3	1410.3	1477.1	1529.5	1572.0	1615.3	1650.5	1677.7
20°	1182.2	1229.8	1301.0	1356.9	1422.3	1493.9	1554.2	1597.4	1634.9	1664.3	1681.1
22.5°	1156.4	1216.4	1285.6	1351.0	1434.6	1505.5	1568.8	1602.8	1634.2	1648.5	1655.0
25°	1115.8	1188.0	1266.4	1346.2	1440.6	1515.6	1573.4	1594.0	1603.2	1589.2	1566.1
27.5°	1072.0	1152.4	1244.2	1337.2	1436.9	1509.1	1550.5	1547.2	1531.7	1486.6	1450.5
30°	1039.2	1127.8	1226.4	1327.9	1428.0	1498.3	1522.4	1498.3	1463.2	1412.7	1361.2
32.5°	1005.0	1096.6	1207.6	1314.8	1411.9	1473.7	1478.8	1437.5	1383.1	1325.7	1261.5
35°	953.2	1052.3	1172.1	1285.6	1377.5	1416.5	1393.5	1320.3	1255.8	1177.4	1089.8
37.5°	894.6	1004.0	1124.2	1242.8	1326.1	1336.2	1278.9	1201.9	1111.0	1018.8	915.8
40°	850.6	966.7	1090.3	1210.1	1283.7	1273.1	1200.0	1115.3	1007.0	894.5	798.7
42.5°	811.4	927.4	1053.3	1170.8	1229.8	1200.8	1115.3	1011.3	895.0	789.0	701.3
45°	743.4	862.7	991.6	1105.2	1138.9	1086.5	973.4	857.9	743.4	654.9	585.6
47.5°	677.4	795.3	923.0	1022.8	1034.7	964.2	840.7	721.8	623.4	551.3	502.4
50°	628.9	747.2	873.7	962.8	958.9	873.7	746.8	633.7	551.4	493.1	460.4
52.5°	585.4	697.2	818.7	899.7	879.3	786.4	665.2	564.8	497.1	451.6	422.0
55°	517.7	621.1	736.6	801.6	764.0	661.1	558.6	477.8	427.7	393.6	370.5
57.5°	450.5	547.5	646.4	686.5	645.0	549.9	464.4	405.8	368.2	342.9	327.8
60°	409.0	493.7	581.7	616.3	566.8	482.1	414.7	362.3	332.0	311.3	297.8
62.5°	367.4	443.3	526.3	545.2	499.8	428.2	368.5	325.0	300.0	281.6	269.0
65°	310.9	372.9	435.9	448.5	406.6	351.3	304.1	275.7	253.5	240.1	230.0
67.5°	255.0	304.7	349.4	359.5	322.8	284.5	250.4	225.6	210.7	199.4	191.0
70°	221.8	261.3	297.8	306.0	276.6	242.5	216.5	196.8	183.3	173.7	165.5
72.5°	186.8	219.7	250.1	255.6	231.6	205.6	184.2	168.7	156.7	150.6	142.8
75°	142.9	162.1	185.7	187.2	171.3	155.4	139.0	128.9	122.7	115.0	111.1
77.5°	100.9	115.9	129.4	132.1	122.6	111.8	102.6	94.7	89.4	85.9	82.3
80°	77.0	89.0	94.8	98.1	91.4	83.7	78.4	73.1	69.7	67.4	64.9
82.5°	55.0	62.5	67.9	70.4	66.8	62.2	56.8	53.9	51.3	49.3	48.4
85°	27.9	31.3	34.7	35.6	34.7	32.7	29.8	29.8	28.4	27.9	27.9
87.5°	10.2	12.2	12.6	14.1	13.8	14.0	14.4	14.3	14.2	14.0	13.9
90°	2.9	5.1	7.2	9.2	11.1	12.6	14.1	15.6	17.2	18.2	19.1
92.5°	17.2	17.0	16.8	16.6	16.9	17.7	18.5	19.2	20.0	20.5	20.9
95°	49.7	43.4	37.0	30.7	28.2	29.6	30.9	32.2	33.6	34.5	35.4
97.5°	93.2	75.5	57.7	39.9	32.5	35.6	38.7	41.8	45.0	45.7	46.5
100°	126.1	99.9	73.7	47.5	36.1	39.3	42.6	45.8	49.1	50.6	52.1
102.5°	192.3	186.7	181.2	175.6	159.3	132.1	104.8	77.7	50.4	52.4	54.4
105°	267.4	273.1	278.9	284.6	261.4	209.2	156.9	104.7	52.5	54.6	56.7
107.5°	339.1	343.7	348.4	353.1	324.0	261.4	198.8	136.1	73.5	71.4	69.2
110°	385.4	389.4	393.4	397.4	371.7	316.5	261.2	205.9	150.6	131.5	112.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	429.0	432.5	436.1	439.6	434.6	420.9	407.3	393.6	379.9	310.2	240.4
115°	498.2	501.4	504.7	507.9	512.0	516.8	521.6	526.3	531.1	442.5	354.0
117.5°	560.7	564.4	568.1	571.7	575.1	578.4	581.7	585.0	588.2	566.8	545.4
120°	605.4	608.3	611.1	614.1	617.2	620.7	624.1	627.5	630.9	633.3	635.6
122.5°	644.1	647.1	650.2	653.2	656.6	660.3	664.1	667.9	671.7	673.0	674.4
125°	702.3	704.8	707.3	709.8	712.8	716.5	720.1	723.8	727.4	728.8	730.1
127.5°	755.8	758.6	761.3	764.0	766.8	769.5	772.2	775.0	777.7	779.6	781.6
130°	789.9	792.9	796.0	799.0	801.6	803.7	805.8	807.9	810.0	812.1	814.3
132.5°	823.8	826.4	829.1	831.6	834.0	836.1	838.2	840.3	842.4	844.2	846.0
135°	869.0	872.1	875.2	878.3	880.6	882.3	884.1	885.8	887.5	889.4	891.4
137.5°	913.4	915.6	917.7	919.8	921.9	923.8	925.8	927.7	929.7	931.5	933.4
140°	942.4	944.0	945.5	947.0	948.9	950.9	953.0	955.2	957.2	958.9	960.6
142.5°	967.0	968.5	969.8	971.2	973.1	975.4	977.9	980.3	982.7	984.3	985.8
145°	1004.4	1004.2	1004.0	1003.8	1005.3	1008.6	1011.8	1015.1	1018.3	1019.6	1021.1
147.5°	1037.7	1037.1	1036.3	1035.6	1036.8	1040.0	1043.3	1046.5	1049.7	1050.7	1051.7
150°	1059.2	1057.8	1056.5	1055.2	1056.0	1059.1	1062.2	1065.3	1068.3	1069.4	1070.5
152.5°	1077.6	1076.1	1074.7	1073.2	1073.8	1076.8	1079.7	1082.6	1085.5	1086.7	1087.8
155°	1104.5	1102.7	1101.0	1099.3	1099.6	1101.8	1104.2	1106.5	1108.7	1109.8	1111.1
157.5°	1125.9	1124.5	1122.9	1121.5	1121.6	1123.2	1124.8	1126.4	1128.0	1129.4	1130.6
160°	1138.6	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1140.9	1142.0
162.5°	1149.6	1148.5	1147.3	1146.1	1146.0	1147.1	1148.0	1149.1	1150.1	1151.3	1152.6
165°	1164.4	1163.3	1162.1	1160.9	1160.6	1161.2	1161.8	1162.4	1163.0	1164.3	1165.6
167.5°	1175.4	1174.3	1173.1	1172.0	1171.7	1172.2	1172.7	1173.3	1173.8	1175.2	1176.5
170°	1181.6	1180.4	1179.3	1178.2	1177.8	1178.2	1178.6	1178.9	1179.3	1180.6	1182.0
172.5°	1185.7	1184.6	1183.5	1182.3	1181.9	1182.3	1182.7	1183.1	1183.5	1184.8	1186.1
175°	1190.9	1189.6	1188.2	1186.8	1186.4	1186.8	1187.1	1187.5	1187.9	1189.3	1190.6
177.5°	1192.0	1191.0	1189.9	1188.8	1188.4	1188.5	1188.6	1188.8	1188.9	1190.1	1191.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1298.5	1303.9	1303.9	1304.7	1310.9	1310.0	1309.7
5°	1381.9	1390.1	1391.0	1399.7	1405.4	1403.5	1398.3
7.5°	1460.5	1475.7	1487.2	1493.6	1501.3	1506.0	1503.9
10°	1522.9	1545.0	1558.5	1567.6	1578.7	1586.9	1583.9
12.5°	1579.4	1605.8	1624.3	1639.9	1641.4	1651.9	1644.7
15°	1667.6	1695.5	1698.5	1710.1	1719.2	1718.2	1718.6
17.5°	1696.9	1705.8	1707.6	1707.9	1708.0	1704.6	1697.3
20°	1686.4	1683.1	1674.9	1668.7	1657.6	1656.1	1646.5
22.5°	1637.2	1626.5	1606.0	1592.4	1575.2	1570.7	1568.0
25°	1540.2	1516.6	1483.8	1452.6	1444.0	1427.1	1431.9
27.5°	1407.1	1370.4	1334.9	1309.5	1286.5	1261.3	1268.5
30°	1313.5	1272.1	1222.1	1183.6	1159.1	1135.0	1130.7
32.5°	1201.9	1141.3	1085.4	1051.6	1014.0	998.8	982.1
35°	1009.5	950.3	894.9	847.3	819.9	798.7	779.5
37.5°	836.3	768.2	723.6	684.9	665.2	653.0	656.1
40°	729.0	669.3	636.6	607.2	588.9	580.2	582.2
42.5°	642.0	597.3	570.3	550.3	537.3	532.5	531.4
45°	543.2	518.2	496.1	484.6	478.2	473.0	469.6
47.5°	475.9	455.4	443.0	436.1	430.6	425.3	425.2
50°	435.5	422.0	413.3	406.0	401.8	397.9	401.2
52.5°	404.6	392.3	383.7	377.2	375.6	372.1	372.0
55°	358.9	349.3	343.1	337.2	334.4	332.4	330.1
57.5°	317.4	308.2	302.5	298.8	293.3	291.3	290.6
60°	287.8	280.5	274.8	269.9	267.5	263.6	263.6
62.5°	260.4	253.2	247.8	244.1	240.2	238.7	239.0
65°	220.8	215.1	209.8	205.9	205.0	202.1	203.0
67.5°	184.5	180.6	175.0	173.0	171.1	169.6	168.4
70°	160.2	156.4	153.4	150.6	149.1	149.1	149.1
72.5°	139.8	135.2	133.5	129.8	130.6	129.1	127.6
75°	108.3	105.4	104.0	102.5	100.1	100.1	100.1
77.5°	79.6	78.8	77.1	75.5	74.9	74.5	74.6
80°	61.5	61.1	60.1	60.1	59.2	58.7	57.8
82.5°	47.3	46.1	45.5	45.1	45.0	44.9	44.7
85°	27.0	26.0	26.0	26.5	25.5	25.5	26.0
87.5°	14.4	14.6	14.3	14.4	14.9	14.6	14.6
90°	20.1	21.0	21.7	22.1	22.4	22.9	23.3
92.5°	21.5	22.0	22.3	22.5	22.8	23.0	23.3
95°	36.5	37.4	37.8	37.6	37.4	37.2	37.0
97.5°	47.2	48.0	48.4	48.7	48.9	49.2	49.4
100°	53.6	55.2	56.2	56.6	56.9	57.3	57.7
102.5°	56.5	58.4	59.7	60.2	60.7	61.3	61.8
105°	58.8	60.9	62.4	63.2	63.9	64.7	65.4
107.5°	67.1	64.9	64.3	65.0	65.8	66.5	67.3
110°	93.2	74.1	64.9	65.7	66.4	67.2	68.1



TEST NUMBER: P331357-830
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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	170.6	100.9	66.3	66.8	67.5	68.1	68.7
115°	265.4	176.8	125.6	111.9	98.1	84.4	70.6
117.5°	524.1	502.6	469.2	424.0	378.7	333.5	288.2
120°	637.9	640.2	628.4	602.6	576.7	550.9	525.1
122.5°	675.7	677.1	675.3	670.3	665.2	660.3	655.3
125°	731.4	732.7	733.7	734.2	734.8	735.5	736.0
127.5°	783.5	785.5	786.5	786.6	786.7	786.8	786.9
130°	816.3	818.4	819.4	819.3	819.0	818.8	818.6
132.5°	847.8	849.6	850.4	850.2	850.0	849.8	849.6
135°	893.2	895.1	895.9	895.5	895.1	894.8	894.4
137.5°	935.3	937.2	937.8	937.2	936.5	935.9	935.2
140°	962.4	964.1	964.5	963.6	962.6	961.7	960.6
142.5°	987.4	989.0	989.3	988.4	987.4	986.5	985.4
145°	1022.4	1023.7	1023.9	1022.9	1022.0	1021.1	1020.1
147.5°	1052.6	1053.7	1053.8	1052.9	1052.2	1051.3	1050.6
150°	1071.8	1072.9	1073.0	1072.0	1071.0	1070.1	1069.1
152.5°	1088.9	1090.1	1090.1	1088.7	1087.5	1086.3	1085.0
155°	1112.2	1113.3	1113.1	1111.6	1110.0	1108.5	1107.0
157.5°	1131.9	1133.2	1133.1	1131.6	1130.1	1128.6	1127.2
160°	1143.2	1144.3	1144.2	1142.8	1141.5	1140.2	1138.9
162.5°	1154.0	1155.3	1155.1	1153.5	1151.8	1150.2	1148.5
165°	1167.0	1168.3	1168.3	1167.0	1165.6	1164.3	1163.0
167.5°	1177.8	1179.2	1178.9	1177.2	1175.5	1173.8	1172.1
170°	1183.4	1184.7	1184.5	1182.8	1181.0	1179.3	1177.6
172.5°	1187.5	1188.8	1188.6	1186.8	1185.2	1183.5	1181.8
175°	1191.9	1193.3	1193.0	1191.1	1189.2	1187.2	1185.3
177.5°	1192.2	1193.3	1193.1	1191.8	1190.3	1188.9	1187.6
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7

(END OF REPORT)