

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: P331700-927

Luminaire Tested: **SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331700-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5064.6 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

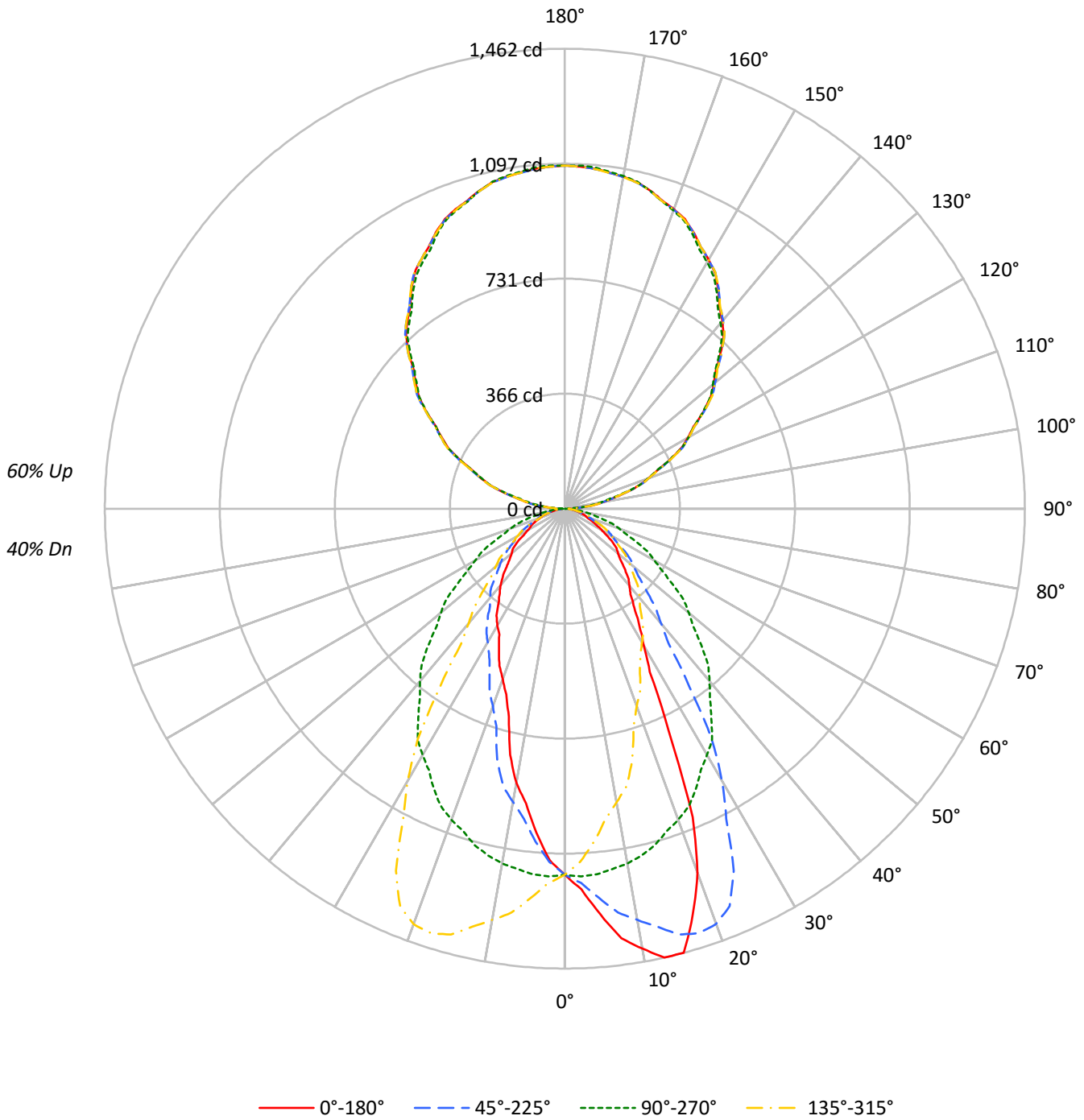
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	88	81	75	71	80	74	69	65	61	58	55	49	47	45	38	36	35	30
3	81	72	65	60	73	66	60	55	54	50	47	44	41	39	34	32	31	26
4	74	64	57	51	67	59	52	47	49	44	40	40	36	34	31	29	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24	21
6	63	52	44	39	57	48	41	36	40	35	31	33	29	26	26	24	22	19
7	59	47	39	34	53	43	37	32	36	31	28	30	26	24	24	21	19	17
8	54	43	35	30	50	40	33	28	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	26	31	26	22	26	22	19	21	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	24	20	18	19	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18791	18791	18791	18791
5°	20985	18908	16765	18908
10°	23282	18775	14532	18775
15°	24428	18501	11450	18501
20°	21179	18093	9907	18093
25°	13890	17533	8845	17533
30°	9350	16858	8006	16858
35°	7571	16005	7222	16005
40°	6734	15076	6681	15076
45°	6094	13988	5966	13988
50°	5546	12911	5526	12911
55°	5213	11713	5146	11713
60°	4363	10618	4308	10618
65°	3679	9639	4172	9639
70°	3399	8611	3932	8611
75°	3175	7492	3631	7492
80°	2929	6165	3236	6165
85°	2705	4872	2853	4872



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	2.2
10°-20°	307.4	6.1
20°-30°	396.1	7.8
30°-40°	376.4	7.4
40°-50°	322.5	6.4
50°-60°	245.6	4.8
60°-70°	155.2	3.1
70°-80°	77.5	1.5
80°-90°	24.5	0.5
90°-100°	69.1	1.4
100°-110°	214.6	4.2
110°-120°	366.8	7.2
120°-130°	482.4	9.5
130°-140°	541.4	10.7
140°-150°	530.9	10.5
150°-160°	445.3	8.8
160°-170°	295.3	5.8
170°-180°	103.2	2.0
0°-30°	813.8	16.1
0°-40°	1190.3	23.5
0°-60°	1758.3	34.7
0°-90°	2015.6	39.8
90°-120°	650.5	12.8
90°-150°	2205.2	43.5
90°-180°	3049.0	60.2
0°-180°	5064.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1164	1164	1164	1164	1164	
5°	1295	1167	1034	1167	1295	128
15°	1461	1107	685	1107	1461	394
25°	780	984	496	984	780	370
35°	384	812	366	812	384	246
45°	267	613	261	613	267	207
55°	185	416	183	416	185	163
65°	96	252	109	252	96	98
75°	51	120	58	120	51	54
85°	15	26	15	26	15	16
90°	31	1	31	1	31	14
95°	57	48	57	48	57	64
105°	204	198	204	198	204	215
115°	368	368	368	368	368	363
125°	537	536	537	536	537	479
135°	701	693	701	693	701	540
145°	850	841	850	841	850	531
155°	969	962	969	962	969	446
165°	1047	1046	1047	1046	1047	295
175°	1085	1089	1085	1089	1085	103
180°	1090	1090	1090	1090	1090	



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1211.0	1212.0	1213.0	1210.7	1210.7	1208.7	1204.5	1201.3	1192.2	1191.0	1191.0
5°	1294.8	1294.0	1295.6	1290.4	1283.1	1281.4	1273.7	1263.7	1253.2	1241.4	1239.0
7.5°	1378.1	1376.9	1373.6	1372.8	1367.1	1354.9	1342.6	1329.4	1311.9	1294.9	1286.3
10°	1420.1	1433.5	1425.4	1411.3	1414.1	1395.1	1385.0	1367.6	1353.0	1327.5	1321.9
12.5°	1461.6	1466.8	1464.3	1456.2	1452.5	1439.4	1425.8	1410.6	1383.8	1360.9	1341.0
15°	1461.4	1469.1	1471.1	1468.7	1470.7	1469.9	1462.6	1450.1	1426.6	1401.5	1379.7
17.5°	1353.5	1358.8	1372.1	1381.1	1392.4	1416.3	1428.1	1432.7	1429.3	1415.0	1399.6
20°	1232.6	1223.6	1260.8	1279.8	1296.0	1336.4	1371.2	1384.6	1406.0	1405.6	1401.5
22.5°	1061.0	1063.2	1098.4	1121.0	1168.2	1208.6	1248.3	1298.5	1340.0	1367.4	1383.5
25°	779.7	795.0	830.2	860.9	913.5	988.7	1057.0	1136.3	1211.1	1270.1	1326.4
27.5°	585.5	586.7	614.6	642.9	674.1	735.8	821.8	916.5	1023.1	1111.1	1212.4
30°	501.5	499.0	510.7	528.1	554.8	602.5	667.2	760.3	866.6	999.2	1117.3
32.5°	441.9	442.0	450.9	463.7	485.9	518.1	562.4	637.9	738.5	868.9	1007.3
35°	384.1	383.7	390.2	399.5	408.8	429.4	459.8	499.4	568.5	690.2	831.8
37.5°	342.8	344.5	347.7	353.5	363.8	375.3	393.5	420.1	469.3	541.3	660.3
40°	319.5	320.3	324.7	329.5	335.6	344.5	359.5	380.9	416.9	474.4	561.3
42.5°	298.1	298.9	302.1	306.6	311.3	320.3	332.6	351.2	380.3	425.2	496.9
45°	266.9	266.9	269.7	271.7	277.0	285.1	295.2	310.5	330.8	363.9	411.6
47.5°	237.6	237.7	239.6	243.0	246.4	252.6	262.6	275.1	289.9	315.5	356.2
50°	220.8	221.2	222.4	225.2	227.3	232.9	240.6	251.5	266.9	286.7	320.7
52.5°	207.2	206.9	208.5	209.7	211.1	215.2	220.9	230.5	244.2	261.5	289.6
55°	185.2	183.5	186.0	188.1	189.3	190.8	194.1	200.2	211.9	226.5	247.5
57.5°	157.7	157.1	158.8	160.7	164.5	168.8	171.5	175.4	181.5	191.9	212.8
60°	135.1	135.1	138.7	139.9	144.3	150.0	155.7	158.9	165.0	171.8	187.2
62.5°	115.0	115.3	117.0	118.3	120.7	127.7	135.6	142.8	148.5	155.0	165.2
65°	96.3	97.0	97.0	97.8	99.5	101.1	104.3	110.0	120.1	129.4	137.0
67.5°	81.7	81.9	82.1	82.9	83.4	85.2	86.4	89.0	91.3	100.1	109.6
70°	72.0	73.2	72.8	73.6	74.0	74.8	76.4	77.6	81.3	83.3	89.0
72.5°	62.9	63.8	63.7	64.2	65.3	65.4	66.7	68.0	70.3	72.0	75.0
75°	50.9	50.5	50.9	51.7	52.1	52.6	52.6	54.2	55.4	57.0	59.0
77.5°	39.3	39.7	39.6	39.7	39.8	40.5	40.4	41.2	42.4	43.2	44.1
80°	31.5	31.9	31.5	31.9	32.3	32.7	32.3	32.7	34.0	34.8	34.8
82.5°	24.4	24.5	24.7	24.8	24.9	25.0	25.6	25.7	26.5	26.4	26.7
85°	14.6	14.2	14.2	14.2	14.6	15.0	14.6	14.6	15.0	15.0	15.0
87.5°	11.4	11.7	11.6	11.6	11.6	11.6	11.7	12.1	11.9	12.3	11.0
90°	31.3	31.1	30.9	30.7	30.5	30.6	31.0	31.4	31.8	32.2	27.7
92.5°	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.4	29.3	29.2	28.2
95°	57.0	57.4	57.9	58.3	58.7	58.9	58.9	58.9	58.9	58.9	58.5
97.5°	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	98.2
100°	126.0	126.3	126.5	126.7	126.9	127.0	127.0	127.0	127.0	127.0	126.4
102.5°	157.0	157.2	157.4	157.6	157.8	157.8	157.6	157.5	157.3	157.2	156.4
105°	204.3	204.3	204.3	204.3	204.3	204.1	203.7	203.3	202.9	202.4	202.0
107.5°	248.8	249.8	250.7	251.7	252.5	252.9	252.8	252.6	252.5	252.3	252.3
110°	283.4	284.0	284.6	285.3	285.9	286.2	286.2	286.2	286.2	286.2	286.2



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	316.6	317.0	317.4	317.9	318.4	318.9	319.3	319.8	320.3	320.8	320.9
115°	368.0	368.7	369.3	369.9	370.5	370.9	371.1	371.4	371.5	371.8	372.2
117.5°	417.2	417.8	418.4	419.1	419.7	420.3	420.7	421.2	421.7	422.2	423.3
120°	451.8	452.4	453.0	453.7	454.2	454.6	454.6	454.6	454.6	454.6	456.2
122.5°	485.7	486.2	486.6	487.0	487.5	487.9	488.5	488.9	489.4	489.9	491.1
125°	537.4	537.6	537.8	538.0	538.2	538.6	539.2	539.9	540.4	541.1	541.7
127.5°	584.5	585.2	585.8	586.5	587.1	587.8	588.5	589.3	590.0	590.7	591.5
130°	618.4	619.2	620.0	620.8	621.6	622.3	622.7	623.1	623.4	623.9	624.3
132.5°	650.8	651.4	652.0	652.8	653.4	654.2	655.1	655.9	656.9	657.7	657.7
135°	701.2	701.8	702.4	703.0	703.6	704.0	704.3	704.5	704.6	704.9	704.5
137.5°	746.8	747.7	748.5	749.2	750.1	750.6	750.8	750.9	751.1	751.2	750.7
140°	778.5	779.3	780.1	780.9	781.7	782.1	782.1	782.1	782.1	782.1	781.2
142.5°	807.2	808.0	808.8	809.6	810.5	810.8	810.6	810.5	810.3	810.2	809.5
145°	850.2	851.0	851.9	852.7	853.5	853.8	853.7	853.4	853.2	853.0	851.8
147.5°	888.7	889.5	890.3	891.0	891.8	892.0	891.5	891.1	890.7	890.2	889.4
150°	913.8	914.3	915.0	915.6	916.2	916.2	915.6	915.0	914.3	913.8	912.9
152.5°	937.3	938.1	938.9	939.6	940.4	940.4	939.6	938.9	938.1	937.3	936.4
155°	968.9	969.6	970.2	970.8	971.4	971.2	970.2	969.2	968.1	967.1	966.5
157.5°	996.2	997.2	998.1	999.1	1000.1	999.9	998.5	997.1	995.8	994.3	994.0
160°	1013.1	1013.9	1014.8	1015.6	1016.4	1016.2	1014.9	1013.8	1012.5	1011.3	1011.1
162.5°	1027.9	1028.8	1029.8	1030.8	1031.7	1031.6	1030.2	1028.8	1027.4	1026.0	1025.8
165°	1047.2	1048.2	1049.2	1050.3	1051.2	1051.1	1049.6	1048.2	1046.8	1045.4	1045.4
167.5°	1063.0	1064.1	1065.1	1066.2	1067.2	1067.1	1065.6	1064.2	1062.8	1061.4	1061.4
170°	1071.1	1072.3	1073.6	1074.8	1076.0	1075.9	1074.4	1073.0	1071.6	1070.2	1070.4
172.5°	1077.7	1079.0	1080.1	1081.4	1082.6	1082.5	1081.1	1079.7	1078.2	1076.8	1077.0
175°	1084.9	1086.2	1087.3	1088.6	1089.8	1089.7	1088.3	1086.9	1085.4	1083.9	1084.4
177.5°	1088.2	1089.2	1090.2	1091.2	1092.1	1092.1	1091.2	1090.2	1089.2	1088.2	1088.5
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1191.6	1189.0	1186.8	1180.9	1178.1	1171.6	1170.6	1170.3	1161.8	1153.7	1151.5
5°	1232.6	1226.1	1216.3	1205.0	1193.3	1181.1	1173.1	1166.6	1150.4	1135.0	1126.2
7.5°	1273.7	1259.9	1243.1	1221.7	1203.8	1183.8	1168.9	1155.6	1132.6	1110.6	1095.7
10°	1304.5	1281.8	1259.6	1230.1	1207.0	1184.4	1163.4	1145.2	1119.3	1090.2	1069.5
12.5°	1323.6	1298.7	1268.0	1239.1	1209.3	1180.5	1152.4	1129.0	1098.6	1068.5	1044.0
15°	1349.4	1322.7	1285.5	1244.3	1205.9	1168.2	1135.9	1106.8	1067.1	1031.2	1001.2
17.5°	1370.5	1333.8	1293.8	1246.1	1201.7	1153.8	1112.1	1075.0	1030.9	987.5	952.2
20°	1377.3	1340.9	1294.8	1247.1	1194.5	1138.3	1093.4	1053.0	1005.7	958.4	917.9
22.5°	1373.1	1344.8	1293.5	1236.4	1182.6	1123.7	1073.0	1026.1	973.7	925.3	878.5
25°	1344.6	1334.8	1286.3	1224.0	1162.6	1094.2	1035.6	984.2	924.4	872.7	821.7
27.5°	1277.9	1298.9	1268.8	1202.5	1134.2	1060.9	995.0	936.5	874.4	816.2	765.4
30°	1213.9	1262.0	1249.1	1187.6	1111.2	1039.3	965.3	904.2	837.9	778.0	727.9
32.5°	1126.2	1205.8	1218.4	1167.0	1087.9	1008.8	931.3	870.5	801.3	738.2	689.4
35°	986.7	1105.6	1160.2	1127.4	1048.1	962.8	882.7	812.0	742.4	680.2	631.6
37.5°	820.1	982.1	1073.0	1075.4	1002.6	913.9	826.7	756.5	685.2	624.1	571.6
40°	712.1	887.6	1006.1	1032.4	970.9	875.0	786.9	715.3	645.8	585.9	525.7
42.5°	615.1	789.9	935.6	981.3	932.4	837.2	748.8	673.9	606.3	549.7	488.1
45°	497.4	650.2	810.8	892.5	865.4	777.2	683.8	612.6	549.1	500.2	441.2
47.5°	419.5	527.3	682.6	793.1	792.7	712.2	620.3	552.2	493.3	447.4	399.6
50°	375.3	469.1	600.5	725.9	736.3	668.8	581.5	514.0	459.0	410.8	372.4
52.5°	335.5	412.8	530.9	651.1	681.0	622.6	537.8	475.5	422.1	377.9	344.9
55°	283.4	343.3	433.1	545.5	590.8	549.5	474.4	416.1	372.8	335.6	307.3
57.5°	239.8	284.7	356.7	447.3	499.9	474.0	411.9	364.6	327.6	294.0	271.6
60°	212.3	249.1	310.1	385.8	444.0	425.8	372.8	328.8	297.2	268.1	247.1
62.5°	186.4	218.0	270.4	331.8	385.2	377.6	334.3	297.4	269.7	243.2	225.4
65°	150.0	173.1	213.9	262.1	304.9	308.6	277.4	252.3	227.7	206.6	190.8
67.5°	119.5	134.5	163.3	203.8	235.9	247.4	228.4	209.2	189.6	173.4	159.7
70°	100.7	112.8	133.9	166.6	196.1	208.3	197.3	182.4	165.4	152.0	140.3
72.5°	81.6	93.4	108.9	132.9	158.3	171.3	167.5	156.9	143.1	132.0	120.9
75°	61.5	65.1	75.7	91.8	111.6	122.9	125.8	120.1	109.2	100.7	94.2
77.5°	45.5	47.6	52.7	61.2	74.1	84.2	88.3	87.7	80.2	75.2	69.2
80°	36.4	37.6	40.0	43.6	53.4	63.5	66.3	66.3	61.1	59.0	53.0
82.5°	27.6	28.5	30.0	32.0	36.5	45.4	48.6	49.2	45.9	43.2	38.4
85°	15.8	15.4	16.2	17.3	18.2	20.6	25.5	26.3	25.5	22.3	21.0
87.5°	10.1	9.6	8.6	7.7	7.4	7.3	8.5	9.6	8.8	8.3	8.2
90°	23.2	18.7	14.2	10.8	8.3	5.9	3.4	1.0	3.4	5.9	8.3
92.5°	27.2	26.1	25.0	23.6	21.8	20.0	18.1	16.4	18.1	20.0	21.8
95°	58.1	57.7	57.3	56.0	53.9	52.0	49.9	47.8	49.9	52.0	53.9
97.5°	97.4	96.6	95.9	94.6	92.8	91.0	89.2	87.5	89.2	91.0	92.8
100°	125.7	125.2	124.5	123.4	121.8	120.2	118.5	116.8	118.5	120.2	121.8
102.5°	155.6	154.9	154.1	153.0	151.7	150.4	149.1	147.8	149.1	150.4	151.7
105°	201.6	201.2	200.8	200.3	199.7	199.1	198.4	197.8	198.4	199.1	199.7
107.5°	252.3	252.3	252.3	251.8	251.0	250.1	249.1	248.3	249.1	250.1	251.0
110°	286.2	286.2	286.2	285.6	284.3	283.1	281.9	280.7	281.9	283.1	284.3



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	321.1	321.2	321.5	320.9	319.6	318.5	317.2	316.0	317.2	318.5	319.6
115°	372.6	373.0	373.4	373.0	371.8	370.5	369.3	368.0	369.3	370.5	371.8
117.5°	424.5	425.6	426.7	426.5	424.8	423.3	421.6	419.9	421.6	423.3	424.8
120°	457.9	459.5	461.1	461.1	459.5	457.9	456.2	454.6	456.2	457.9	459.5
122.5°	492.2	493.4	494.5	494.1	492.1	490.1	488.2	486.2	488.2	490.1	492.1
125°	542.3	542.9	543.5	542.9	541.1	539.2	537.4	535.5	537.4	539.2	541.1
127.5°	592.2	592.9	593.7	592.9	590.6	588.3	585.9	583.6	585.9	588.3	590.6
130°	624.7	625.1	625.5	624.4	621.7	619.1	616.4	613.8	616.4	619.1	621.7
132.5°	657.6	657.5	657.4	656.3	654.1	652.0	649.8	647.6	649.8	652.0	654.1
135°	704.0	703.6	703.2	701.9	699.7	697.4	695.1	692.9	695.1	697.4	699.7
137.5°	750.2	749.6	749.1	747.9	746.1	744.3	742.4	740.5	742.4	744.3	746.1
140°	780.1	779.1	778.1	776.7	774.8	772.9	771.1	769.3	771.1	772.9	774.8
142.5°	808.7	808.0	807.3	806.0	804.2	802.4	800.6	798.8	800.6	802.4	804.2
145°	850.6	849.3	848.1	846.8	845.3	843.9	842.5	841.1	842.5	843.9	845.3
147.5°	888.6	887.7	886.9	885.7	883.9	882.2	880.5	878.8	880.5	882.2	883.9
150°	912.1	911.3	910.5	909.4	908.2	907.0	905.8	904.5	905.8	907.0	908.2
152.5°	935.3	934.4	933.3	932.2	931.1	929.8	928.6	927.3	928.6	929.8	931.1
155°	965.9	965.3	964.6	964.1	963.5	962.8	962.2	961.6	962.2	962.8	963.5
157.5°	993.6	993.2	992.8	992.5	992.0	991.7	991.3	990.9	991.3	991.7	992.0
160°	1010.9	1010.7	1010.4	1010.2	1009.7	1009.3	1008.9	1008.5	1008.9	1009.3	1009.7
162.5°	1025.6	1025.4	1025.2	1025.1	1024.9	1024.8	1024.8	1024.7	1024.8	1024.8	1024.9
165°	1045.4	1045.4	1045.4	1045.4	1045.6	1045.8	1046.1	1046.2	1046.1	1045.8	1045.6
167.5°	1061.4	1061.4	1061.5	1061.8	1062.5	1063.0	1063.7	1064.3	1063.7	1063.0	1062.5
170°	1070.6	1070.8	1071.0	1071.4	1072.0	1072.6	1073.2	1073.9	1073.2	1072.6	1072.0
172.5°	1077.2	1077.4	1077.6	1078.0	1078.6	1079.3	1079.9	1080.5	1079.9	1079.3	1078.6
175°	1084.8	1085.2	1085.6	1086.2	1086.7	1087.3	1088.0	1088.6	1088.0	1087.3	1086.7
177.5°	1088.9	1089.2	1089.5	1090.0	1090.4	1090.9	1091.4	1091.9	1091.4	1090.9	1090.4
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1147.3	1145.0	1140.8	1134.3	1130.4	1123.6	1119.1	1121.7	1122.4	1121.7	1121.1
5°	1116.5	1107.9	1096.2	1084.9	1074.4	1063.1	1056.6	1053.8	1048.1	1044.9	1043.3
7.5°	1079.2	1064.5	1048.0	1028.3	1011.5	994.0	985.0	980.5	968.9	962.7	957.1
10°	1051.4	1028.3	1011.8	985.9	970.1	947.1	931.3	931.7	915.9	907.0	900.6
12.5°	1020.6	995.3	967.7	944.4	922.5	904.0	885.0	877.3	860.5	852.0	834.6
15°	969.7	940.2	911.1	879.5	857.3	828.5	801.1	767.5	740.4	716.9	710.5
17.5°	914.0	877.5	848.3	811.3	773.2	724.8	693.0	673.5	657.2	644.8	635.6
20°	875.8	838.7	807.6	751.7	700.4	667.7	644.2	629.2	612.2	598.9	591.6
22.5°	835.8	796.9	754.5	692.2	652.2	625.9	605.0	587.8	576.3	565.9	559.3
25°	778.8	736.3	666.4	623.5	591.2	563.7	549.1	538.6	526.5	512.3	505.9
27.5°	718.7	651.1	600.9	569.0	538.1	520.2	507.2	491.5	480.6	474.3	467.5
30°	673.7	606.2	567.0	532.2	510.3	490.5	475.2	466.3	455.7	444.8	440.4
32.5°	623.5	569.6	532.0	503.0	480.9	464.0	451.9	437.4	429.8	423.1	413.8
35°	561.3	520.5	486.1	462.6	441.6	427.9	413.7	405.2	391.4	385.8	382.1
37.5°	508.5	473.1	447.5	422.7	406.1	390.9	382.2	368.7	362.7	354.9	347.2
40°	478.8	444.0	419.3	399.1	380.5	369.2	358.3	347.4	338.4	334.9	325.5
42.5°	448.4	420.1	395.4	373.2	360.8	348.8	335.0	327.0	317.7	311.9	306.1
45°	406.4	381.4	360.3	342.1	328.4	315.8	306.9	293.6	288.4	276.6	271.7
47.5°	369.6	346.2	326.1	308.9	295.4	287.2	274.3	263.8	255.4	248.2	242.0
50°	343.3	323.9	304.5	289.1	277.0	265.3	251.9	246.7	233.7	230.0	226.5
52.5°	319.4	301.0	283.1	268.1	256.0	244.5	232.8	225.9	217.2	213.6	211.0
55°	285.9	268.1	251.1	237.7	225.6	213.9	206.6	198.1	194.1	191.2	188.1
57.5°	252.2	236.2	223.2	209.7	197.5	188.2	179.7	174.7	170.5	166.8	162.9
60°	230.9	215.6	203.8	191.2	178.7	171.0	164.6	158.5	153.7	148.0	146.4
62.5°	208.3	194.8	184.1	171.8	161.0	153.9	147.7	142.0	136.2	127.9	125.6
65°	177.1	166.6	155.3	145.2	135.5	128.6	119.7	113.2	110.8	110.0	109.6
67.5°	149.0	139.0	129.3	119.0	110.1	103.8	99.3	98.2	96.6	96.1	95.0
70°	130.2	120.9	111.2	101.5	93.0	91.8	90.2	88.6	86.5	85.7	84.9
72.5°	113.4	103.8	94.0	86.3	82.6	81.1	79.5	77.9	76.5	75.7	75.2
75°	86.9	78.0	71.6	68.8	66.7	65.5	63.1	61.9	61.1	59.8	59.4
77.5°	62.6	57.6	54.6	52.8	50.7	49.4	48.0	46.8	45.9	45.7	45.1
80°	47.7	45.3	43.3	40.9	40.0	38.4	38.0	36.8	37.2	36.0	36.0
82.5°	37.1	34.0	32.2	31.1	30.3	29.1	28.6	28.0	28.1	27.3	27.3
85°	19.0	18.2	17.3	16.6	16.6	15.4	15.8	15.4	15.4	14.6	14.2
87.5°	8.3	8.6	9.0	9.8	10.7	11.3	11.2	10.8	10.7	10.6	10.3
90°	10.8	14.2	18.7	23.2	27.7	32.2	31.8	31.4	31.0	30.6	30.5
92.5°	23.6	25.0	26.1	27.2	28.2	29.2	29.3	29.4	29.5	29.6	29.6
95°	56.0	57.3	57.7	58.1	58.5	58.9	58.9	58.9	58.9	58.9	58.7
97.5°	94.6	95.9	96.6	97.4	98.2	99.0	99.0	99.0	99.0	99.0	99.0
100°	123.4	124.5	125.2	125.7	126.4	127.0	127.0	127.0	127.0	127.0	126.9
102.5°	153.0	154.1	154.9	155.6	156.4	157.2	157.3	157.5	157.6	157.8	157.8
105°	200.3	200.8	201.2	201.6	202.0	202.4	202.9	203.3	203.7	204.1	204.3
107.5°	251.8	252.3	252.3	252.3	252.3	252.3	252.5	252.6	252.8	252.9	252.5
110°	285.6	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	285.9



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	320.9	321.5	321.2	321.1	320.9	320.8	320.3	319.8	319.3	318.9	318.4
115°	373.0	373.4	373.0	372.6	372.2	371.8	371.5	371.4	371.1	370.9	370.5
117.5°	426.5	426.7	425.6	424.5	423.3	422.2	421.7	421.2	420.7	420.3	419.7
120°	461.1	461.1	459.5	457.9	456.2	454.6	454.6	454.6	454.6	454.6	454.2
122.5°	494.1	494.5	493.4	492.2	491.1	489.9	489.4	488.9	488.5	487.9	487.5
125°	542.9	543.5	542.9	542.3	541.7	541.1	540.4	539.9	539.2	538.6	538.2
127.5°	592.9	593.7	592.9	592.2	591.5	590.7	590.0	589.3	588.5	587.8	587.1
130°	624.4	625.5	625.1	624.7	624.3	623.9	623.4	623.1	622.7	622.3	621.6
132.5°	656.3	657.4	657.5	657.6	657.7	657.7	656.9	655.9	655.1	654.2	653.4
135°	701.9	703.2	703.6	704.0	704.5	704.9	704.6	704.5	704.3	704.0	703.6
137.5°	747.9	749.1	749.6	750.2	750.7	751.2	751.1	750.9	750.8	750.6	750.1
140°	776.7	778.1	779.1	780.1	781.2	782.1	782.1	782.1	782.1	782.1	781.7
142.5°	806.0	807.3	808.0	808.7	809.5	810.2	810.3	810.5	810.6	810.8	810.5
145°	846.8	848.1	849.3	850.6	851.8	853.0	853.2	853.4	853.7	853.8	853.5
147.5°	885.7	886.9	887.7	888.6	889.4	890.2	890.7	891.1	891.5	892.0	891.8
150°	909.4	910.5	911.3	912.1	912.9	913.8	914.3	915.0	915.6	916.2	916.2
152.5°	932.2	933.3	934.4	935.3	936.4	937.3	938.1	938.9	939.6	940.4	940.4
155°	964.1	964.6	965.3	965.9	966.5	967.1	968.1	969.2	970.2	971.2	971.4
157.5°	992.5	992.8	993.2	993.6	994.0	994.3	995.8	997.1	998.5	999.9	1000.1
160°	1010.2	1010.4	1010.7	1010.9	1011.1	1011.3	1012.5	1013.8	1014.9	1016.2	1016.4
162.5°	1025.1	1025.2	1025.4	1025.6	1025.8	1026.0	1027.4	1028.8	1030.2	1031.6	1031.7
165°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1046.8	1048.2	1049.6	1051.1	1051.2
167.5°	1061.8	1061.5	1061.4	1061.4	1061.4	1061.4	1062.8	1064.2	1065.6	1067.1	1067.2
170°	1071.4	1071.0	1070.8	1070.6	1070.4	1070.2	1071.6	1073.0	1074.4	1075.9	1076.0
172.5°	1078.0	1077.6	1077.4	1077.2	1077.0	1076.8	1078.2	1079.7	1081.1	1082.5	1082.6
175°	1086.2	1085.6	1085.2	1084.8	1084.4	1083.9	1085.4	1086.9	1088.3	1089.7	1089.8
177.5°	1090.0	1089.5	1089.2	1088.9	1088.5	1088.2	1089.2	1090.2	1091.2	1092.1	1092.1
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1117.5	1118.2	1117.2	1117.8	1117.2	1118.2	1117.5	1121.1	1121.7	1122.4	1121.7
5°	1041.2	1036.4	1035.6	1034.4	1035.6	1036.4	1041.2	1043.3	1044.9	1048.1	1053.8
7.5°	950.2	949.4	947.5	944.6	947.5	949.4	950.2	957.1	962.7	968.9	980.5
10°	891.6	889.6	889.2	886.4	889.2	889.6	891.6	900.6	907.0	915.9	931.7
12.5°	823.1	810.0	808.7	801.6	808.7	810.0	823.1	834.6	852.0	860.5	877.3
15°	700.8	698.4	690.2	685.0	690.2	698.4	700.8	710.5	716.9	740.4	767.5
17.5°	630.9	623.0	620.4	619.3	620.4	623.0	630.9	635.6	644.8	657.2	673.5
20°	585.9	578.7	577.4	576.6	577.4	578.7	585.9	591.6	598.9	612.2	629.2
22.5°	554.8	547.2	544.2	541.7	544.2	547.2	554.8	559.3	565.9	576.3	587.8
25°	501.8	499.0	497.4	496.5	497.4	499.0	501.8	505.9	512.3	526.5	538.6
27.5°	460.3	454.1	452.9	450.8	452.9	454.1	460.3	467.5	474.3	480.6	491.5
30°	436.7	434.7	431.9	429.4	431.9	434.7	436.7	440.4	444.8	455.7	466.3
32.5°	408.9	407.2	404.7	403.5	404.7	407.2	408.9	413.8	423.1	429.8	437.4
35°	378.1	372.4	370.0	366.4	370.0	372.4	378.1	382.1	385.8	391.4	405.2
37.5°	345.5	342.5	339.1	340.3	339.1	342.5	345.5	347.2	354.9	362.7	368.7
40°	320.3	318.2	317.4	317.0	317.4	318.2	320.3	325.5	334.9	338.4	347.4
42.5°	300.2	294.6	292.6	292.5	292.6	294.6	300.2	306.1	311.9	317.7	327.0
45°	269.7	264.4	260.8	261.3	260.8	264.4	269.7	271.7	276.6	288.4	293.6
47.5°	238.5	238.4	236.1	236.8	236.1	238.4	238.5	242.0	248.2	255.4	263.8
50°	223.6	221.2	219.6	220.0	219.6	221.2	223.6	226.5	230.0	233.7	246.7
52.5°	209.4	207.3	206.0	207.7	206.0	207.3	209.4	211.0	213.6	217.2	225.9
55°	186.0	183.5	183.2	182.8	183.2	183.5	186.0	188.1	191.2	194.1	198.1
57.5°	159.9	158.3	155.8	154.8	155.8	158.3	159.9	162.9	166.8	170.5	174.7
60°	141.1	137.9	133.9	133.4	133.9	137.9	141.1	146.4	148.0	153.7	158.5
62.5°	124.0	123.3	122.6	122.5	122.6	123.3	124.0	125.6	127.9	136.2	142.0
65°	108.8	108.4	108.8	109.2	108.8	108.4	108.8	109.6	110.0	110.8	113.2
67.5°	94.8	94.0	93.3	93.6	93.3	94.0	94.8	95.0	96.1	96.6	98.2
70°	84.1	83.7	83.3	83.3	83.3	83.7	84.1	84.9	85.7	86.5	88.6
72.5°	73.8	73.7	73.3	73.0	73.3	73.7	73.8	75.2	75.7	76.5	77.9
75°	59.0	58.2	58.2	58.2	58.2	58.2	59.0	59.4	59.8	61.1	61.9
77.5°	45.0	44.6	44.1	43.8	44.1	44.6	45.0	45.1	45.7	45.9	46.8
80°	35.6	35.2	34.8	34.8	34.8	35.2	35.6	36.0	36.0	37.2	36.8
82.5°	27.2	26.8	26.7	26.4	26.7	26.8	27.2	27.3	27.3	28.1	28.0
85°	14.6	15.0	14.6	15.4	14.6	15.0	14.6	14.2	14.6	15.4	15.4
87.5°	10.4	10.1	10.5	10.1	10.5	10.1	10.4	10.3	10.6	10.7	10.8
90°	30.7	30.9	31.1	31.3	31.1	30.9	30.7	30.5	30.6	31.0	31.4
92.5°	29.7	29.7	29.8	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.4
95°	58.3	57.9	57.4	57.0	57.4	57.9	58.3	58.7	58.9	58.9	58.9
97.5°	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
100°	126.7	126.5	126.3	126.0	126.3	126.5	126.7	126.9	127.0	127.0	127.0
102.5°	157.6	157.4	157.2	157.0	157.2	157.4	157.6	157.8	157.8	157.6	157.5
105°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.1	203.7	203.3
107.5°	251.7	250.7	249.8	248.8	249.8	250.7	251.7	252.5	252.9	252.8	252.6
110°	285.3	284.6	284.0	283.4	284.0	284.6	285.3	285.9	286.2	286.2	286.2



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	317.9	317.4	317.0	316.6	317.0	317.4	317.9	318.4	318.9	319.3	319.8
115°	369.9	369.3	368.7	368.0	368.7	369.3	369.9	370.5	370.9	371.1	371.4
117.5°	419.1	418.4	417.8	417.2	417.8	418.4	419.1	419.7	420.3	420.7	421.2
120°	453.7	453.0	452.4	451.8	452.4	453.0	453.7	454.2	454.6	454.6	454.6
122.5°	487.0	486.6	486.2	485.7	486.2	486.6	487.0	487.5	487.9	488.5	488.9
125°	538.0	537.8	537.6	537.4	537.6	537.8	538.0	538.2	538.6	539.2	539.9
127.5°	586.5	585.8	585.2	584.5	585.2	585.8	586.5	587.1	587.8	588.5	589.3
130°	620.8	620.0	619.2	618.4	619.2	620.0	620.8	621.6	622.3	622.7	623.1
132.5°	652.8	652.0	651.4	650.8	651.4	652.0	652.8	653.4	654.2	655.1	655.9
135°	703.0	702.4	701.8	701.2	701.8	702.4	703.0	703.6	704.0	704.3	704.5
137.5°	749.2	748.5	747.7	746.8	747.7	748.5	749.2	750.1	750.6	750.8	750.9
140°	780.9	780.1	779.3	778.5	779.3	780.1	780.9	781.7	782.1	782.1	782.1
142.5°	809.6	808.8	808.0	807.2	808.0	808.8	809.6	810.5	810.8	810.6	810.5
145°	852.7	851.9	851.0	850.2	851.0	851.9	852.7	853.5	853.8	853.7	853.4
147.5°	891.0	890.3	889.5	888.7	889.5	890.3	891.0	891.8	892.0	891.5	891.1
150°	915.6	915.0	914.3	913.8	914.3	915.0	915.6	916.2	916.2	915.6	915.0
152.5°	939.6	938.9	938.1	937.3	938.1	938.9	939.6	940.4	940.4	939.6	938.9
155°	970.8	970.2	969.6	968.9	969.6	970.2	970.8	971.4	971.2	970.2	969.2
157.5°	999.1	998.1	997.2	996.2	997.2	998.1	999.1	1000.1	999.9	998.5	997.1
160°	1015.6	1014.8	1013.9	1013.1	1013.9	1014.8	1015.6	1016.4	1016.2	1014.9	1013.8
162.5°	1030.8	1029.8	1028.8	1027.9	1028.8	1029.8	1030.8	1031.7	1031.6	1030.2	1028.8
165°	1050.3	1049.2	1048.2	1047.2	1048.2	1049.2	1050.3	1051.2	1051.1	1049.6	1048.2
167.5°	1066.2	1065.1	1064.1	1063.0	1064.1	1065.1	1066.2	1067.2	1067.1	1065.6	1064.2
170°	1074.8	1073.6	1072.3	1071.1	1072.3	1073.6	1074.8	1076.0	1075.9	1074.4	1073.0
172.5°	1081.4	1080.1	1079.0	1077.7	1079.0	1080.1	1081.4	1082.6	1082.5	1081.1	1079.7
175°	1088.6	1087.3	1086.2	1084.9	1086.2	1087.3	1088.6	1089.8	1089.7	1088.3	1086.9
177.5°	1091.2	1090.2	1089.2	1088.2	1089.2	1090.2	1091.2	1092.1	1092.1	1091.2	1090.2
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1119.1	1123.6	1130.4	1134.3	1140.8	1145.0	1147.3	1151.5	1153.7	1161.8	1170.3
5°	1056.6	1063.1	1074.4	1084.9	1096.2	1107.9	1116.5	1126.2	1135.0	1150.4	1166.6
7.5°	985.0	994.0	1011.5	1028.3	1048.0	1064.5	1079.2	1095.7	1110.6	1132.6	1155.6
10°	931.3	947.1	970.1	985.9	1011.8	1028.3	1051.4	1069.5	1090.2	1119.3	1145.2
12.5°	885.0	904.0	922.5	944.4	967.7	995.3	1020.6	1044.0	1068.5	1098.6	1129.0
15°	801.1	828.5	857.3	879.5	911.1	940.2	969.7	1001.2	1031.2	1067.1	1106.8
17.5°	693.0	724.8	773.2	811.3	848.3	877.5	914.0	952.2	987.5	1030.9	1075.0
20°	644.2	667.7	700.4	751.7	807.6	838.7	875.8	917.9	958.4	1005.7	1053.0
22.5°	605.0	625.9	652.2	692.2	754.5	796.9	835.8	878.5	925.3	973.7	1026.1
25°	549.1	563.7	591.2	623.5	666.4	736.3	778.8	821.7	872.7	924.4	984.2
27.5°	507.2	520.2	538.1	569.0	600.9	651.1	718.7	765.4	816.2	874.4	936.5
30°	475.2	490.5	510.3	532.2	567.0	606.2	673.7	727.9	778.0	837.9	904.2
32.5°	451.9	464.0	480.9	503.0	532.0	569.6	623.5	689.4	738.2	801.3	870.5
35°	413.7	427.9	441.6	462.6	486.1	520.5	561.3	631.6	680.2	742.4	812.0
37.5°	382.2	390.9	406.1	422.7	447.5	473.1	508.5	571.6	624.1	685.2	756.5
40°	358.3	369.2	380.5	399.1	419.3	444.0	478.8	525.7	585.9	645.8	715.3
42.5°	335.0	348.8	360.8	373.2	395.4	420.1	448.4	488.1	549.7	606.3	673.9
45°	306.9	315.8	328.4	342.1	360.3	381.4	406.4	441.2	500.2	549.1	612.6
47.5°	274.3	287.2	295.4	308.9	326.1	346.2	369.6	399.6	447.4	493.3	552.2
50°	251.9	265.3	277.0	289.1	304.5	323.9	343.3	372.4	410.8	459.0	514.0
52.5°	232.8	244.5	256.0	268.1	283.1	301.0	319.4	344.9	377.9	422.1	475.5
55°	206.6	213.9	225.6	237.7	251.1	268.1	285.9	307.3	335.6	372.8	416.1
57.5°	179.7	188.2	197.5	209.7	223.2	236.2	252.2	271.6	294.0	327.6	364.6
60°	164.6	171.0	178.7	191.2	203.8	215.6	230.9	247.1	268.1	297.2	328.8
62.5°	147.7	153.9	161.0	171.8	184.1	194.8	208.3	225.4	243.2	269.7	297.4
65°	119.7	128.6	135.5	145.2	155.3	166.6	177.1	190.8	206.6	227.7	252.3
67.5°	99.3	103.8	110.1	119.0	129.3	139.0	149.0	159.7	173.4	189.6	209.2
70°	90.2	91.8	93.0	101.5	111.2	120.9	130.2	140.3	152.0	165.4	182.4
72.5°	79.5	81.1	82.6	86.3	94.0	103.8	113.4	120.9	132.0	143.1	156.9
75°	63.1	65.5	66.7	68.8	71.6	78.0	86.9	94.2	100.7	109.2	120.1
77.5°	48.0	49.4	50.7	52.8	54.6	57.6	62.6	69.2	75.2	80.2	87.7
80°	38.0	38.4	40.0	40.9	43.3	45.3	47.7	53.0	59.0	61.1	66.3
82.5°	28.6	29.1	30.3	31.1	32.2	34.0	37.1	38.4	43.2	45.9	49.2
85°	15.8	15.4	16.6	16.6	17.3	18.2	19.0	21.0	22.3	25.5	26.3
87.5°	11.2	11.3	10.7	9.8	9.0	8.6	8.3	8.2	8.3	8.8	9.6
90°	31.8	32.2	27.7	23.2	18.7	14.2	10.8	8.3	5.9	3.4	1.0
92.5°	29.3	29.2	28.2	27.2	26.1	25.0	23.6	21.8	20.0	18.1	16.4
95°	58.9	58.9	58.5	58.1	57.7	57.3	56.0	53.9	52.0	49.9	47.8
97.5°	99.0	99.0	98.2	97.4	96.6	95.9	94.6	92.8	91.0	89.2	87.5
100°	127.0	127.0	126.4	125.7	125.2	124.5	123.4	121.8	120.2	118.5	116.8
102.5°	157.3	157.2	156.4	155.6	154.9	154.1	153.0	151.7	150.4	149.1	147.8
105°	202.9	202.4	202.0	201.6	201.2	200.8	200.3	199.7	199.1	198.4	197.8
107.5°	252.5	252.3	252.3	252.3	252.3	252.3	251.8	251.0	250.1	249.1	248.3
110°	286.2	286.2	286.2	286.2	286.2	286.2	285.6	284.3	283.1	281.9	280.7



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	320.3	320.8	320.9	321.1	321.2	321.5	320.9	319.6	318.5	317.2	316.0
115°	371.5	371.8	372.2	372.6	373.0	373.4	373.0	371.8	370.5	369.3	368.0
117.5°	421.7	422.2	423.3	424.5	425.6	426.7	426.5	424.8	423.3	421.6	419.9
120°	454.6	454.6	456.2	457.9	459.5	461.1	461.1	459.5	457.9	456.2	454.6
122.5°	489.4	489.9	491.1	492.2	493.4	494.5	494.1	492.1	490.1	488.2	486.2
125°	540.4	541.1	541.7	542.3	542.9	543.5	542.9	541.1	539.2	537.4	535.5
127.5°	590.0	590.7	591.5	592.2	592.9	593.7	592.9	590.6	588.3	585.9	583.6
130°	623.4	623.9	624.3	624.7	625.1	625.5	624.4	621.7	619.1	616.4	613.8
132.5°	656.9	657.7	657.7	657.6	657.5	657.4	656.3	654.1	652.0	649.8	647.6
135°	704.6	704.9	704.5	704.0	703.6	703.2	701.9	699.7	697.4	695.1	692.9
137.5°	751.1	751.2	750.7	750.2	749.6	749.1	747.9	746.1	744.3	742.4	740.5
140°	782.1	782.1	781.2	780.1	779.1	778.1	776.7	774.8	772.9	771.1	769.3
142.5°	810.3	810.2	809.5	808.7	808.0	807.3	806.0	804.2	802.4	800.6	798.8
145°	853.2	853.0	851.8	850.6	849.3	848.1	846.8	845.3	843.9	842.5	841.1
147.5°	890.7	890.2	889.4	888.6	887.7	886.9	885.7	883.9	882.2	880.5	878.8
150°	914.3	913.8	912.9	912.1	911.3	910.5	909.4	908.2	907.0	905.8	904.5
152.5°	938.1	937.3	936.4	935.3	934.4	933.3	932.2	931.1	929.8	928.6	927.3
155°	968.1	967.1	966.5	965.9	965.3	964.6	964.1	963.5	962.8	962.2	961.6
157.5°	995.8	994.3	994.0	993.6	993.2	992.8	992.5	992.0	991.7	991.3	990.9
160°	1012.5	1011.3	1011.1	1010.9	1010.7	1010.4	1010.2	1009.7	1009.3	1008.9	1008.5
162.5°	1027.4	1026.0	1025.8	1025.6	1025.4	1025.2	1025.1	1024.9	1024.8	1024.8	1024.7
165°	1046.8	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.6	1045.8	1046.1	1046.2
167.5°	1062.8	1061.4	1061.4	1061.4	1061.4	1061.5	1061.8	1062.5	1063.0	1063.7	1064.3
170°	1071.6	1070.2	1070.4	1070.6	1070.8	1071.0	1071.4	1072.0	1072.6	1073.2	1073.9
172.5°	1078.2	1076.8	1077.0	1077.2	1077.4	1077.6	1078.0	1078.6	1079.3	1079.9	1080.5
175°	1085.4	1083.9	1084.4	1084.8	1085.2	1085.6	1086.2	1086.7	1087.3	1088.0	1088.6
177.5°	1089.2	1088.2	1088.5	1088.9	1089.2	1089.5	1090.0	1090.4	1090.9	1091.4	1091.9
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1170.6	1171.6	1178.1	1180.9	1186.8	1189.0	1191.6	1191.0	1191.0	1192.2	1201.3
5°	1173.1	1181.1	1193.3	1205.0	1216.3	1226.1	1232.6	1239.0	1241.4	1253.2	1263.7
7.5°	1168.9	1183.8	1203.8	1221.7	1243.1	1259.9	1273.7	1286.3	1294.9	1311.9	1329.4
10°	1163.4	1184.4	1207.0	1230.1	1259.6	1281.8	1304.5	1321.9	1327.5	1353.0	1367.6
12.5°	1152.4	1180.5	1209.3	1239.1	1268.0	1298.7	1323.6	1341.0	1360.9	1383.8	1410.6
15°	1135.9	1168.2	1205.9	1244.3	1285.5	1322.7	1349.4	1379.7	1401.5	1426.6	1450.1
17.5°	1112.1	1153.8	1201.7	1246.1	1293.8	1333.8	1370.5	1399.6	1415.0	1429.3	1432.7
20°	1093.4	1138.3	1194.5	1247.1	1294.8	1340.9	1377.3	1401.5	1405.6	1406.0	1384.6
22.5°	1073.0	1123.7	1182.6	1236.4	1293.5	1344.8	1373.1	1383.5	1367.4	1340.0	1298.5
25°	1035.6	1094.2	1162.6	1224.0	1286.3	1334.8	1344.6	1326.4	1270.1	1211.1	1136.3
27.5°	995.0	1060.9	1134.2	1202.5	1268.8	1298.9	1277.9	1212.4	1111.1	1023.1	916.5
30°	965.3	1039.3	1111.2	1187.6	1249.1	1262.0	1213.9	1117.3	999.2	866.6	760.3
32.5°	931.3	1008.8	1087.9	1167.0	1218.4	1205.8	1126.2	1007.3	868.9	738.5	637.9
35°	882.7	962.8	1048.1	1127.4	1160.2	1105.6	986.7	831.8	690.2	568.5	499.4
37.5°	826.7	913.9	1002.6	1075.4	1073.0	982.1	820.1	660.3	541.3	469.3	420.1
40°	786.9	875.0	970.9	1032.4	1006.1	887.6	712.1	561.3	474.4	416.9	380.9
42.5°	748.8	837.2	932.4	981.3	935.6	789.9	615.1	496.9	425.2	380.3	351.2
45°	683.8	777.2	865.4	892.5	810.8	650.2	497.4	411.6	363.9	330.8	310.5
47.5°	620.3	712.2	792.7	793.1	682.6	527.3	419.5	356.2	315.5	289.9	275.1
50°	581.5	668.8	736.3	725.9	600.5	469.1	375.3	320.7	286.7	266.9	251.5
52.5°	537.8	622.6	681.0	651.1	530.9	412.8	335.5	289.6	261.5	244.2	230.5
55°	474.4	549.5	590.8	545.5	433.1	343.3	283.4	247.5	226.5	211.9	200.2
57.5°	411.9	474.0	499.9	447.3	356.7	284.7	239.8	212.8	191.9	181.5	175.4
60°	372.8	425.8	444.0	385.8	310.1	249.1	212.3	187.2	171.8	165.0	158.9
62.5°	334.3	377.6	385.2	331.8	270.4	218.0	186.4	165.2	155.0	148.5	142.8
65°	277.4	308.6	304.9	262.1	213.9	173.1	150.0	137.0	129.4	120.1	110.0
67.5°	228.4	247.4	235.9	203.8	163.3	134.5	119.5	109.6	100.1	91.3	89.0
70°	197.3	208.3	196.1	166.6	133.9	112.8	100.7	89.0	83.3	81.3	77.6
72.5°	167.5	171.3	158.3	132.9	108.9	93.4	81.6	75.0	72.0	70.3	68.0
75°	125.8	122.9	111.6	91.8	75.7	65.1	61.5	59.0	57.0	55.4	54.2
77.5°	88.3	84.2	74.1	61.2	52.7	47.6	45.5	44.1	43.2	42.4	41.2
80°	66.3	63.5	53.4	43.6	40.0	37.6	36.4	34.8	34.8	34.0	32.7
82.5°	48.6	45.4	36.5	32.0	30.0	28.5	27.6	26.7	26.4	26.5	25.7
85°	25.5	20.6	18.2	17.3	16.2	15.4	15.8	15.0	15.0	15.0	14.6
87.5°	8.5	7.3	7.4	7.7	8.6	9.6	10.1	11.0	12.3	11.9	12.1
90°	3.4	5.9	8.3	10.8	14.2	18.7	23.2	27.7	32.2	31.8	31.4
92.5°	18.1	20.0	21.8	23.6	25.0	26.1	27.2	28.2	29.2	29.3	29.4
95°	49.9	52.0	53.9	56.0	57.3	57.7	58.1	58.5	58.9	58.9	58.9
97.5°	89.2	91.0	92.8	94.6	95.9	96.6	97.4	98.2	99.0	99.0	99.0
100°	118.5	120.2	121.8	123.4	124.5	125.2	125.7	126.4	127.0	127.0	127.0
102.5°	149.1	150.4	151.7	153.0	154.1	154.9	155.6	156.4	157.2	157.3	157.5
105°	198.4	199.1	199.7	200.3	200.8	201.2	201.6	202.0	202.4	202.9	203.3
107.5°	249.1	250.1	251.0	251.8	252.3	252.3	252.3	252.3	252.3	252.5	252.6
110°	281.9	283.1	284.3	285.6	286.2	286.2	286.2	286.2	286.2	286.2	286.2



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	317.2	318.5	319.6	320.9	321.5	321.2	321.1	320.9	320.8	320.3	319.8
115°	369.3	370.5	371.8	373.0	373.4	373.0	372.6	372.2	371.8	371.5	371.4
117.5°	421.6	423.3	424.8	426.5	426.7	425.6	424.5	423.3	422.2	421.7	421.2
120°	456.2	457.9	459.5	461.1	461.1	459.5	457.9	456.2	454.6	454.6	454.6
122.5°	488.2	490.1	492.1	494.1	494.5	493.4	492.2	491.1	489.9	489.4	488.9
125°	537.4	539.2	541.1	542.9	543.5	542.9	542.3	541.7	541.1	540.4	539.9
127.5°	585.9	588.3	590.6	592.9	593.7	592.9	592.2	591.5	590.7	590.0	589.3
130°	616.4	619.1	621.7	624.4	625.5	625.1	624.7	624.3	623.9	623.4	623.1
132.5°	649.8	652.0	654.1	656.3	657.4	657.5	657.6	657.7	657.7	656.9	655.9
135°	695.1	697.4	699.7	701.9	703.2	703.6	704.0	704.5	704.9	704.6	704.5
137.5°	742.4	744.3	746.1	747.9	749.1	749.6	750.2	750.7	751.2	751.1	750.9
140°	771.1	772.9	774.8	776.7	778.1	779.1	780.1	781.2	782.1	782.1	782.1
142.5°	800.6	802.4	804.2	806.0	807.3	808.0	808.7	809.5	810.2	810.3	810.5
145°	842.5	843.9	845.3	846.8	848.1	849.3	850.6	851.8	853.0	853.2	853.4
147.5°	880.5	882.2	883.9	885.7	886.9	887.7	888.6	889.4	890.2	890.7	891.1
150°	905.8	907.0	908.2	909.4	910.5	911.3	912.1	912.9	913.8	914.3	915.0
152.5°	928.6	929.8	931.1	932.2	933.3	934.4	935.3	936.4	937.3	938.1	938.9
155°	962.2	962.8	963.5	964.1	964.6	965.3	965.9	966.5	967.1	968.1	969.2
157.5°	991.3	991.7	992.0	992.5	992.8	993.2	993.6	994.0	994.3	995.8	997.1
160°	1008.9	1009.3	1009.7	1010.2	1010.4	1010.7	1010.9	1011.1	1011.3	1012.5	1013.8
162.5°	1024.8	1024.8	1024.9	1025.1	1025.2	1025.4	1025.6	1025.8	1026.0	1027.4	1028.8
165°	1046.1	1045.8	1045.6	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1046.8	1048.2
167.5°	1063.7	1063.0	1062.5	1061.8	1061.5	1061.4	1061.4	1061.4	1061.4	1062.8	1064.2
170°	1073.2	1072.6	1072.0	1071.4	1071.0	1070.8	1070.6	1070.4	1070.2	1071.6	1073.0
172.5°	1079.9	1079.3	1078.6	1078.0	1077.6	1077.4	1077.2	1077.0	1076.8	1078.2	1079.7
175°	1088.0	1087.3	1086.7	1086.2	1085.6	1085.2	1084.8	1084.4	1083.9	1085.4	1086.9
177.5°	1091.4	1090.9	1090.4	1090.0	1089.5	1089.2	1088.9	1088.5	1088.2	1089.2	1090.2
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1204.5	1208.7	1210.7	1210.7	1213.0	1212.0	1211.0
5°	1273.7	1281.4	1283.1	1290.4	1295.6	1294.0	1294.8
7.5°	1342.6	1354.9	1367.1	1372.8	1373.6	1376.9	1378.1
10°	1385.0	1395.1	1414.1	1411.3	1425.4	1433.5	1420.1
12.5°	1425.8	1439.4	1452.5	1456.2	1464.3	1466.8	1461.6
15°	1462.6	1469.9	1470.7	1468.7	1471.1	1469.1	1461.4
17.5°	1428.1	1416.3	1392.4	1381.1	1372.1	1358.8	1353.5
20°	1371.2	1336.4	1296.0	1279.8	1260.8	1223.6	1232.6
22.5°	1248.3	1208.6	1168.2	1121.0	1098.4	1063.2	1061.0
25°	1057.0	988.7	913.5	860.9	830.2	795.0	779.7
27.5°	821.8	735.8	674.1	642.9	614.6	586.7	585.5
30°	667.2	602.5	554.8	528.1	510.7	499.0	501.5
32.5°	562.4	518.1	485.9	463.7	450.9	442.0	441.9
35°	459.8	429.4	408.8	399.5	390.2	383.7	384.1
37.5°	393.5	375.3	363.8	353.5	347.7	344.5	342.8
40°	359.5	344.5	335.6	329.5	324.7	320.3	319.5
42.5°	332.6	320.3	311.3	306.6	302.1	298.9	298.1
45°	295.2	285.1	277.0	271.7	269.7	266.9	266.9
47.5°	262.6	252.6	246.4	243.0	239.6	237.7	237.6
50°	240.6	232.9	227.3	225.2	222.4	221.2	220.8
52.5°	220.9	215.2	211.1	209.7	208.5	206.9	207.2
55°	194.1	190.8	189.3	188.1	186.0	183.5	185.2
57.5°	171.5	168.8	164.5	160.7	158.8	157.1	157.7
60°	155.7	150.0	144.3	139.9	138.7	135.1	135.1
62.5°	135.6	127.7	120.7	118.3	117.0	115.3	115.0
65°	104.3	101.1	99.5	97.8	97.0	97.0	96.3
67.5°	86.4	85.2	83.4	82.9	82.1	81.9	81.7
70°	76.4	74.8	74.0	73.6	72.8	73.2	72.0
72.5°	66.7	65.4	65.3	64.2	63.7	63.8	62.9
75°	52.6	52.6	52.1	51.7	50.9	50.5	50.9
77.5°	40.4	40.5	39.8	39.7	39.6	39.7	39.3
80°	32.3	32.7	32.3	31.9	31.5	31.9	31.5
82.5°	25.6	25.0	24.9	24.8	24.7	24.5	24.4
85°	14.6	15.0	14.6	14.2	14.2	14.2	14.6
87.5°	11.7	11.6	11.6	11.6	11.6	11.7	11.4
90°	31.0	30.6	30.5	30.7	30.9	31.1	31.3
92.5°	29.5	29.6	29.6	29.7	29.7	29.8	29.8
95°	58.9	58.9	58.7	58.3	57.9	57.4	57.0
97.5°	99.0	99.0	99.0	98.9	98.9	98.9	98.9
100°	127.0	127.0	126.9	126.7	126.5	126.3	126.0
102.5°	157.6	157.8	157.8	157.6	157.4	157.2	157.0
105°	203.7	204.1	204.3	204.3	204.3	204.3	204.3
107.5°	252.8	252.9	252.5	251.7	250.7	249.8	248.8
110°	286.2	286.2	285.9	285.3	284.6	284.0	283.4



TEST NUMBER: P331700-927

CATALOG NUMBER: SA2XXRDIP-C675D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	319.3	318.9	318.4	317.9	317.4	317.0	316.6
115°	371.1	370.9	370.5	369.9	369.3	368.7	368.0
117.5°	420.7	420.3	419.7	419.1	418.4	417.8	417.2
120°	454.6	454.6	454.2	453.7	453.0	452.4	451.8
122.5°	488.5	487.9	487.5	487.0	486.6	486.2	485.7
125°	539.2	538.6	538.2	538.0	537.8	537.6	537.4
127.5°	588.5	587.8	587.1	586.5	585.8	585.2	584.5
130°	622.7	622.3	621.6	620.8	620.0	619.2	618.4
132.5°	655.1	654.2	653.4	652.8	652.0	651.4	650.8
135°	704.3	704.0	703.6	703.0	702.4	701.8	701.2
137.5°	750.8	750.6	750.1	749.2	748.5	747.7	746.8
140°	782.1	782.1	781.7	780.9	780.1	779.3	778.5
142.5°	810.6	810.8	810.5	809.6	808.8	808.0	807.2
145°	853.7	853.8	853.5	852.7	851.9	851.0	850.2
147.5°	891.5	892.0	891.8	891.0	890.3	889.5	888.7
150°	915.6	916.2	916.2	915.6	915.0	914.3	913.8
152.5°	939.6	940.4	940.4	939.6	938.9	938.1	937.3
155°	970.2	971.2	971.4	970.8	970.2	969.6	968.9
157.5°	998.5	999.9	1000.1	999.1	998.1	997.2	996.2
160°	1014.9	1016.2	1016.4	1015.6	1014.8	1013.9	1013.1
162.5°	1030.2	1031.6	1031.7	1030.8	1029.8	1028.8	1027.9
165°	1049.6	1051.1	1051.2	1050.3	1049.2	1048.2	1047.2
167.5°	1065.6	1067.1	1067.2	1066.2	1065.1	1064.1	1063.0
170°	1074.4	1075.9	1076.0	1074.8	1073.6	1072.3	1071.1
172.5°	1081.1	1082.5	1082.6	1081.4	1080.1	1079.0	1077.7
175°	1088.3	1089.7	1089.8	1088.6	1087.3	1086.2	1084.9
177.5°	1091.2	1092.1	1092.1	1091.2	1090.2	1089.2	1088.2
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4

(END OF REPORT)