

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: P331700-935

Luminaire Tested: **SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331700-935  
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-C675D1080U935-4F0-1E-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: 5504.6 lumens  
Efficiency: N/A  
Efficacy: 96.7 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

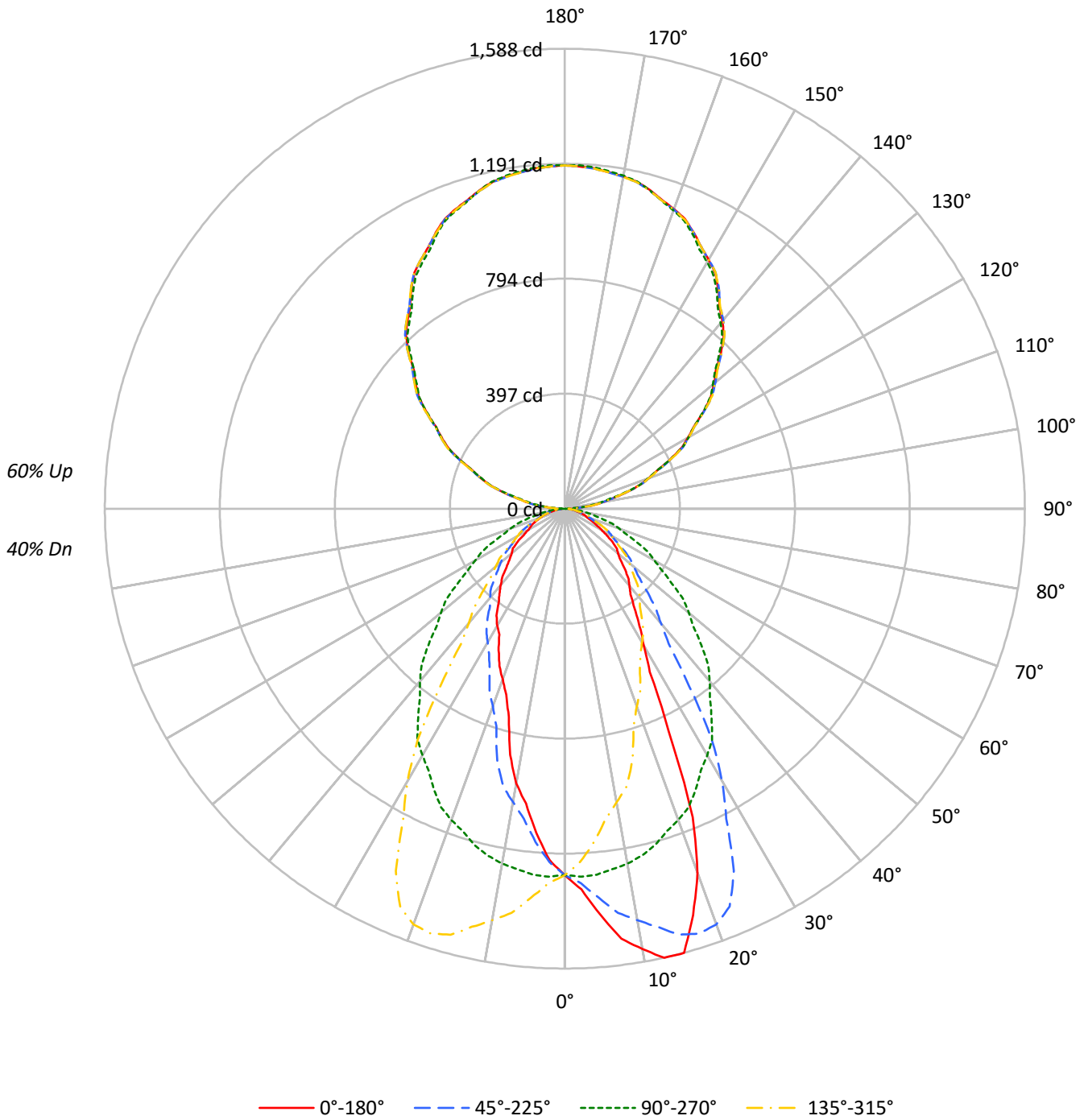
Input Watts (W): 56.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	20423	20423	20423	20423
5°	22809	20551	18220	20551
10°	25306	20407	15795	20407
15°	26551	20107	12445	20107
20°	23017	19663	10768	19663
25°	15096	19057	9615	19057
30°	10161	18321	8701	18321
35°	8229	17394	7849	17394
40°	7318	16387	7263	16387
45°	6624	15203	6485	15203
50°	6028	14031	6006	14031
55°	5666	12732	5590	12732
60°	4740	11538	4682	11538
65°	3996	10476	4531	10476
70°	3696	9356	4277	9356
75°	3456	8141	3949	8141
80°	3189	6704	3515	6704
85°	2927	5298	3094	5298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.9	2.2
10°-20°	334.1	6.1
20°-30°	430.5	7.8
30°-40°	409.1	7.4
40°-50°	350.5	6.4
50°-60°	266.9	4.8
60°-70°	168.7	3.1
70°-80°	84.3	1.5
80°-90°	26.7	0.5
90°-100°	75.1	1.4
100°-110°	233.2	4.2
110°-120°	398.7	7.2
120°-130°	524.3	9.5
130°-140°	588.5	10.7
140°-150°	577.0	10.5
150°-160°	484.0	8.8
160°-170°	321.0	5.8
170°-180°	112.2	2.0
0°-30°	884.5	16.1
0°-40°	1293.7	23.5
0°-60°	1911.1	34.7
0°-90°	2190.7	39.8
90°-120°	707.0	12.8
90°-150°	2396.8	43.5
90°-180°	3314.0	60.2
0°-180°	5504.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1265	1265	1265	1265	1265	
5°	1407	1268	1124	1268	1407	139
15°	1588	1203	744	1203	1588	428
25°	847	1070	540	1070	847	402
35°	418	882	398	882	418	267
45°	290	666	284	666	290	224
55°	201	452	199	452	201	177
65°	105	274	119	274	105	106
75°	55	130	63	130	55	59
85°	16	29	17	29	16	18
90°	34	1	34	1	34	15
95°	62	52	62	52	62	69
105°	222	215	222	215	222	234
115°	400	400	400	400	400	395
125°	584	582	584	582	584	521
135°	762	753	762	753	762	587
145°	924	914	924	914	924	577
155°	1053	1045	1053	1045	1053	485
165°	1138	1137	1138	1137	1138	321
175°	1179	1183	1179	1183	1179	112
180°	1185	1185	1185	1185	1185	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1316.2	1317.2	1318.4	1315.9	1315.9	1313.7	1309.2	1305.7	1295.8	1294.4	1294.4
5°	1407.3	1406.4	1408.2	1402.5	1394.6	1392.8	1384.4	1373.5	1362.0	1349.3	1346.6
7.5°	1497.8	1496.5	1493.0	1492.0	1485.9	1472.7	1459.2	1444.9	1425.9	1407.4	1398.1
10°	1543.5	1558.1	1549.2	1533.9	1537.0	1516.3	1505.3	1486.4	1470.6	1442.9	1436.8
12.5°	1588.5	1594.2	1591.5	1582.7	1578.7	1564.4	1549.6	1533.2	1504.0	1479.1	1457.5
15°	1588.4	1596.7	1598.9	1596.3	1598.4	1597.6	1589.7	1576.1	1550.6	1523.3	1499.6
17.5°	1471.1	1476.9	1491.3	1501.1	1513.4	1539.4	1552.2	1557.2	1553.4	1537.9	1521.2
20°	1339.6	1329.9	1370.4	1391.0	1408.6	1452.5	1490.3	1504.9	1528.1	1527.7	1523.3
22.5°	1153.2	1155.5	1193.9	1218.4	1269.7	1313.6	1356.8	1411.4	1456.4	1486.2	1503.7
25°	847.4	864.1	902.3	935.7	992.8	1074.6	1148.8	1235.0	1316.3	1380.4	1441.6
27.5°	636.4	637.7	668.0	698.8	732.7	799.7	893.2	996.1	1112.0	1207.6	1317.7
30°	545.0	542.3	555.1	574.0	603.0	654.9	725.1	826.3	941.8	1086.0	1214.4
32.5°	480.3	480.4	490.1	504.0	528.1	563.1	611.2	693.4	802.6	944.3	1094.8
35°	417.5	417.1	424.1	434.2	444.4	466.7	499.7	542.8	617.9	750.2	904.0
37.5°	372.6	374.4	377.9	384.2	395.4	407.9	427.7	456.6	510.1	588.3	717.6
40°	347.2	348.1	352.9	358.2	364.8	374.4	390.7	414.0	453.1	515.6	610.0
42.5°	324.0	324.9	328.3	333.2	338.4	348.1	361.5	381.7	413.4	462.1	540.0
45°	290.1	290.1	293.2	295.3	301.1	309.9	320.8	337.5	359.6	395.5	447.4
47.5°	258.2	258.3	260.4	264.2	267.8	274.6	285.4	299.0	315.0	342.9	387.2
50°	240.0	240.4	241.7	244.8	247.0	253.1	261.5	273.4	290.1	311.6	348.5
52.5°	225.2	224.9	226.6	227.9	229.5	233.8	240.0	250.6	265.4	284.2	314.8
55°	201.3	199.5	202.2	204.4	205.7	207.4	210.9	217.6	230.3	246.2	269.0
57.5°	171.4	170.7	172.5	174.6	178.7	183.5	186.4	190.6	197.3	208.6	231.3
60°	146.8	146.8	150.8	152.1	156.9	163.1	169.2	172.7	179.3	186.8	203.5
62.5°	125.0	125.4	127.2	128.5	131.2	138.8	147.4	155.2	161.4	168.5	179.6
65°	104.6	105.5	105.5	106.3	108.1	109.9	113.4	119.5	130.5	140.6	149.0
67.5°	88.8	89.0	89.3	90.1	90.7	92.6	93.9	96.7	99.3	108.8	119.2
70°	78.3	79.6	79.1	80.0	80.4	81.3	83.1	84.4	88.3	90.6	96.7
72.5°	68.4	69.3	69.2	69.8	70.9	71.1	72.5	73.9	76.4	78.3	81.5
75°	55.4	54.9	55.4	56.2	56.7	57.2	57.2	58.9	60.2	62.0	64.1
77.5°	42.7	43.1	43.0	43.1	43.2	44.0	43.9	44.8	46.1	46.9	48.0
80°	34.3	34.7	34.3	34.7	35.1	35.6	35.1	35.6	36.9	37.8	37.8
82.5°	26.5	26.6	26.9	26.9	27.0	27.1	27.8	27.9	28.8	28.7	29.0
85°	15.8	15.4	15.4	15.4	15.8	16.3	15.8	15.8	16.3	16.3	16.3
87.5°	12.4	12.7	12.7	12.7	12.6	12.7	12.7	13.2	12.9	13.3	12.0
90°	34.0	33.8	33.6	33.3	33.1	33.2	33.7	34.1	34.5	35.0	30.1
92.5°	32.4	32.4	32.3	32.3	32.2	32.2	32.0	31.9	31.9	31.8	30.7
95°	62.0	62.4	62.9	63.4	63.8	64.0	64.0	64.0	64.0	64.0	63.5
97.5°	107.5	107.5	107.5	107.5	107.6	107.6	107.6	107.6	107.6	107.6	106.8
100°	137.0	137.2	137.5	137.7	137.9	138.0	138.0	138.0	138.0	138.0	137.3
102.5°	170.7	170.8	171.1	171.3	171.5	171.5	171.3	171.2	171.0	170.8	170.0
105°	222.1	222.1	222.1	222.1	222.1	221.8	221.4	220.9	220.5	220.0	219.6
107.5°	270.4	271.5	272.5	273.5	274.5	274.9	274.7	274.6	274.4	274.2	274.2
110°	308.1	308.7	309.4	310.0	310.7	311.1	311.1	311.1	311.1	311.1	311.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	344.1	344.6	345.0	345.5	346.0	346.6	347.1	347.6	348.1	348.6	348.8
115°	400.0	400.7	401.4	402.1	402.7	403.1	403.4	403.6	403.8	404.1	404.5
117.5°	453.5	454.1	454.8	455.5	456.2	456.8	457.3	457.8	458.3	458.8	460.1
120°	491.0	491.7	492.4	493.1	493.7	494.0	494.0	494.0	494.0	494.0	495.8
122.5°	527.9	528.4	528.8	529.3	529.9	530.3	530.9	531.4	531.9	532.4	533.7
125°	584.1	584.3	584.5	584.7	585.0	585.4	586.1	586.8	587.4	588.1	588.8
127.5°	635.2	636.0	636.7	637.4	638.1	638.9	639.6	640.5	641.3	642.0	642.9
130°	672.1	673.0	673.8	674.8	675.6	676.3	676.7	677.2	677.6	678.1	678.6
132.5°	707.3	708.0	708.7	709.5	710.2	711.0	712.0	712.9	713.9	714.9	714.8
135°	762.1	762.8	763.4	764.1	764.7	765.2	765.4	765.7	765.9	766.1	765.7
137.5°	811.7	812.6	813.5	814.3	815.3	815.8	816.0	816.1	816.3	816.5	815.9
140°	846.1	847.0	847.9	848.8	849.6	850.1	850.1	850.1	850.1	850.1	849.0
142.5°	877.3	878.2	879.1	879.9	880.9	881.2	881.1	880.9	880.7	880.5	879.8
145°	924.1	925.0	925.9	926.8	927.6	928.0	927.8	927.6	927.3	927.1	925.7
147.5°	966.0	966.7	967.6	968.5	969.3	969.5	969.0	968.5	968.0	967.5	966.6
150°	993.2	993.8	994.5	995.1	995.8	995.8	995.1	994.5	993.8	993.2	992.2
152.5°	1018.7	1019.6	1020.5	1021.2	1022.1	1022.1	1021.2	1020.5	1019.6	1018.7	1017.7
155°	1053.1	1053.8	1054.5	1055.2	1055.8	1055.6	1054.5	1053.3	1052.2	1051.1	1050.5
157.5°	1082.7	1083.8	1084.9	1085.9	1087.0	1086.8	1085.3	1083.7	1082.3	1080.7	1080.3
160°	1101.1	1102.0	1102.9	1103.8	1104.7	1104.5	1103.1	1101.8	1100.4	1099.2	1098.9
162.5°	1117.1	1118.2	1119.3	1120.3	1121.4	1121.2	1119.6	1118.2	1116.6	1115.2	1114.9
165°	1138.2	1139.3	1140.4	1141.5	1142.5	1142.4	1140.8	1139.3	1137.7	1136.2	1136.2
167.5°	1155.4	1156.5	1157.6	1158.8	1159.9	1159.8	1158.2	1156.7	1155.1	1153.6	1153.6
170°	1164.2	1165.4	1166.8	1168.1	1169.5	1169.3	1167.8	1166.2	1164.7	1163.1	1163.4
172.5°	1171.3	1172.7	1174.0	1175.4	1176.6	1176.6	1175.0	1173.5	1171.9	1170.4	1170.5
175°	1179.1	1180.5	1181.8	1183.2	1184.5	1184.4	1182.8	1181.3	1179.7	1178.1	1178.6
177.5°	1182.8	1183.8	1184.9	1185.9	1187.0	1187.0	1185.9	1184.9	1183.8	1182.8	1183.1
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1295.1	1292.3	1289.9	1283.5	1280.4	1273.3	1272.3	1272.0	1262.7	1254.0	1251.5
5°	1339.6	1332.6	1322.0	1309.7	1296.9	1283.8	1275.0	1268.0	1250.3	1233.6	1224.0
7.5°	1384.4	1369.3	1351.1	1327.8	1308.4	1286.6	1270.4	1255.9	1231.0	1207.0	1190.9
10°	1417.8	1393.2	1369.1	1337.0	1311.9	1287.3	1264.5	1244.7	1216.5	1184.9	1162.4
12.5°	1438.6	1411.5	1378.2	1346.8	1314.4	1283.1	1252.5	1227.1	1194.0	1161.3	1134.7
15°	1466.6	1437.6	1397.1	1352.4	1310.6	1269.7	1234.6	1202.9	1159.9	1120.8	1088.2
17.5°	1489.5	1449.7	1406.2	1354.4	1306.1	1254.0	1208.8	1168.4	1120.4	1073.2	1034.9
20°	1496.9	1457.4	1407.3	1355.4	1298.3	1237.2	1188.4	1144.4	1093.0	1041.6	997.6
22.5°	1492.4	1461.6	1405.8	1343.8	1285.3	1221.3	1166.2	1115.3	1058.3	1005.7	954.8
25°	1461.4	1450.8	1398.1	1330.3	1263.6	1189.3	1125.6	1069.7	1004.7	948.5	893.0
27.5°	1389.0	1411.8	1379.1	1307.0	1232.7	1153.1	1081.4	1017.9	950.4	887.1	831.9
30°	1319.4	1371.7	1357.6	1290.8	1207.7	1129.5	1049.1	982.7	910.7	845.6	791.1
32.5°	1224.1	1310.5	1324.2	1268.3	1182.4	1096.5	1012.2	946.2	870.9	802.4	749.2
35°	1072.4	1201.6	1260.9	1225.3	1139.2	1046.5	959.4	882.5	806.9	739.3	686.5
37.5°	891.4	1067.4	1166.2	1168.8	1089.7	993.2	898.5	822.2	744.8	678.3	621.3
40°	774.0	964.7	1093.5	1122.1	1055.2	951.1	855.2	777.5	701.9	636.8	571.4
42.5°	668.5	858.5	1016.8	1066.5	1013.4	909.9	813.8	732.5	659.0	597.4	530.5
45°	540.6	706.7	881.2	970.0	940.6	844.7	743.2	665.8	596.8	543.6	479.5
47.5°	456.0	573.1	741.9	862.0	861.5	774.0	674.2	600.1	536.1	486.3	434.3
50°	407.9	509.8	652.6	788.9	800.3	726.9	632.0	558.6	498.9	446.5	404.8
52.5°	364.6	448.7	577.0	707.7	740.2	676.7	584.5	516.8	458.7	410.7	374.9
55°	308.1	373.2	470.7	592.9	642.1	597.3	515.6	452.3	405.2	364.8	334.0
57.5°	260.6	309.4	387.7	486.1	543.4	515.2	447.7	396.3	356.1	319.5	295.2
60°	230.7	270.7	337.1	419.3	482.6	462.8	405.2	357.3	323.0	291.4	268.5
62.5°	202.6	236.9	293.9	360.6	418.6	410.4	363.3	323.2	293.2	264.3	245.0
65°	163.1	188.1	232.5	284.8	331.4	335.4	301.5	274.2	247.5	224.5	207.4
67.5°	129.8	146.2	177.5	221.5	256.4	268.9	248.2	227.4	206.1	188.5	173.6
70°	109.4	122.6	145.5	181.1	213.2	226.4	214.5	198.2	179.8	165.2	152.5
72.5°	88.7	101.5	118.4	144.5	172.0	186.2	182.1	170.5	155.5	143.4	131.4
75°	66.8	70.8	82.2	99.8	121.3	133.6	136.7	130.5	118.6	109.4	102.4
77.5°	49.4	51.7	57.3	66.5	80.5	91.5	96.0	95.3	87.1	81.7	75.2
80°	39.5	40.9	43.5	47.4	58.0	69.0	72.1	72.1	66.4	64.1	57.6
82.5°	30.0	31.0	32.6	34.8	39.7	49.3	52.8	53.5	49.9	46.9	41.8
85°	17.1	16.7	17.6	18.9	19.8	22.4	27.7	28.6	27.7	24.2	22.8
87.5°	11.0	10.4	9.4	8.4	8.1	7.9	9.2	10.4	9.6	9.0	8.9
90°	25.2	20.3	15.4	11.7	9.0	6.4	3.7	1.0	3.7	6.4	9.0
92.5°	29.5	28.3	27.2	25.7	23.7	21.7	19.7	17.8	19.7	21.7	23.7
95°	63.1	62.7	62.3	60.9	58.6	56.5	54.2	52.0	54.2	56.5	58.6
97.5°	105.9	105.0	104.3	102.8	100.9	98.9	96.9	95.1	96.9	98.9	100.9
100°	136.6	136.0	135.3	134.1	132.3	130.6	128.8	127.0	128.8	130.6	132.3
102.5°	169.1	168.3	167.5	166.3	164.9	163.5	162.0	160.7	162.0	163.5	164.9
105°	219.1	218.7	218.3	217.7	217.1	216.4	215.7	215.0	215.7	216.4	217.1
107.5°	274.2	274.2	274.2	273.7	272.8	271.8	270.8	269.8	270.8	271.8	272.8
110°	311.1	311.1	311.1	310.4	309.0	307.7	306.3	305.1	306.3	307.7	309.0





TEST NUMBER: P331700-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	349.0	349.1	349.4	348.8	347.4	346.1	344.7	343.5	344.7	346.1	347.4
115°	404.9	405.4	405.8	405.4	404.1	402.7	401.4	400.0	401.4	402.7	404.1
117.5°	461.3	462.6	463.8	463.6	461.8	460.0	458.2	456.4	458.2	460.0	461.8
120°	497.7	499.4	501.2	501.2	499.4	497.7	495.8	494.0	495.8	497.7	499.4
122.5°	534.9	536.2	537.4	537.0	534.9	532.7	530.6	528.5	530.6	532.7	534.9
125°	589.4	590.0	590.7	590.0	588.1	586.1	584.1	582.0	584.1	586.1	588.1
127.5°	643.7	644.5	645.3	644.4	641.9	639.4	636.8	634.3	636.8	639.4	641.9
130°	679.0	679.4	679.8	678.6	675.7	672.9	669.9	667.1	669.9	672.9	675.7
132.5°	714.7	714.6	714.5	713.3	710.9	708.6	706.3	703.9	706.3	708.6	710.9
135°	765.2	764.7	764.3	762.8	760.4	758.0	755.5	753.1	755.5	758.0	760.4
137.5°	815.4	814.8	814.2	812.9	810.9	808.9	806.9	804.9	806.9	808.9	810.9
140°	847.9	846.8	845.7	844.1	842.1	840.1	838.1	836.1	838.1	840.1	842.1
142.5°	879.0	878.2	877.4	876.1	874.1	872.1	870.1	868.1	870.1	872.1	874.1
145°	924.5	923.1	921.8	920.3	918.8	917.2	915.7	914.1	915.7	917.2	918.8
147.5°	965.8	964.8	964.0	962.6	960.7	958.8	957.0	955.1	957.0	958.8	960.7
150°	991.4	990.5	989.5	988.4	987.1	985.8	984.5	983.1	984.5	985.8	987.1
152.5°	1016.6	1015.5	1014.4	1013.2	1011.9	1010.6	1009.3	1007.9	1009.3	1010.6	1011.9
155°	1049.8	1049.1	1048.4	1047.8	1047.1	1046.5	1045.8	1045.2	1045.8	1046.5	1047.1
157.5°	1080.0	1079.5	1079.1	1078.7	1078.2	1077.8	1077.4	1076.9	1077.4	1077.8	1078.2
160°	1098.7	1098.5	1098.2	1097.9	1097.4	1097.0	1096.6	1096.1	1096.6	1097.0	1097.4
162.5°	1114.7	1114.5	1114.2	1114.1	1114.0	1113.9	1113.8	1113.7	1113.8	1113.9	1114.0
165°	1136.2	1136.2	1136.2	1136.3	1136.4	1136.7	1137.0	1137.1	1137.0	1136.7	1136.4
167.5°	1153.7	1153.7	1153.7	1154.1	1154.8	1155.4	1156.1	1156.8	1156.1	1155.4	1154.8
170°	1163.6	1163.8	1164.1	1164.5	1165.1	1165.8	1166.5	1167.2	1166.5	1165.8	1165.1
172.5°	1170.8	1171.0	1171.2	1171.6	1172.3	1173.0	1173.7	1174.3	1173.7	1173.0	1172.3
175°	1179.1	1179.5	1179.9	1180.5	1181.1	1181.8	1182.5	1183.2	1182.5	1181.8	1181.1
177.5°	1183.4	1183.8	1184.1	1184.6	1185.2	1185.7	1186.2	1186.7	1186.2	1185.7	1185.2
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331700-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1247.0	1244.5	1239.9	1232.9	1228.6	1221.2	1216.3	1219.2	1219.9	1219.2	1218.5
5°	1213.5	1204.2	1191.5	1179.1	1167.8	1155.5	1148.4	1145.3	1139.2	1135.7	1133.9
7.5°	1172.9	1157.0	1139.0	1117.6	1099.3	1080.3	1070.6	1065.7	1053.1	1046.3	1040.3
10°	1142.7	1117.7	1099.7	1071.5	1054.4	1029.3	1012.2	1012.6	995.5	985.8	978.8
12.5°	1109.3	1081.8	1051.8	1026.5	1002.6	982.6	961.9	953.6	935.3	926.0	907.1
15°	1054.0	1021.8	990.2	955.9	931.8	900.5	870.6	834.1	804.7	779.2	772.2
17.5°	993.4	953.7	922.0	881.8	840.3	787.8	753.2	732.0	714.3	700.9	690.8
20°	951.9	911.5	877.7	817.0	761.2	725.7	700.2	683.9	665.4	650.9	643.0
22.5°	908.4	866.2	820.0	752.3	708.9	680.3	657.5	638.9	626.4	615.0	607.9
25°	846.4	800.3	724.3	677.7	642.6	612.7	596.8	585.4	572.2	556.8	549.8
27.5°	781.1	707.7	653.1	618.5	584.9	565.4	551.2	534.2	522.4	515.5	508.2
30°	732.2	658.8	616.2	578.4	554.7	533.1	516.4	506.8	495.3	483.5	478.6
32.5°	677.7	619.1	578.2	546.7	522.6	504.3	491.1	475.4	467.2	459.9	449.8
35°	610.0	565.7	528.3	502.8	479.9	465.0	449.6	440.4	425.4	419.3	415.3
37.5°	552.7	514.2	486.4	459.4	441.3	424.8	415.4	400.7	394.3	385.7	377.4
40°	520.4	482.6	455.7	433.8	413.5	401.2	389.4	377.5	367.8	363.9	353.8
42.5°	487.3	456.6	429.7	405.6	392.1	379.1	364.1	355.4	345.3	339.0	332.7
45°	441.7	414.5	391.6	371.8	356.9	343.3	333.6	319.1	313.4	300.6	295.3
47.5°	401.7	376.3	354.5	335.7	321.1	312.2	298.1	286.7	277.6	269.8	263.0
50°	373.2	352.1	331.0	314.3	301.1	288.3	273.8	268.1	254.0	250.0	246.2
52.5°	347.2	327.1	307.7	291.4	278.2	265.8	253.0	245.6	236.1	232.1	229.3
55°	310.7	291.4	272.9	258.4	245.2	232.5	224.5	215.3	210.9	207.8	204.4
57.5°	274.1	256.8	242.6	227.9	214.6	204.6	195.4	189.9	185.3	181.2	177.0
60°	251.0	234.3	221.5	207.8	194.2	185.9	178.9	172.3	167.0	160.8	159.1
62.5°	226.4	211.7	200.1	186.8	175.0	167.3	160.6	154.4	148.0	139.1	136.6
65°	192.5	181.1	168.8	157.8	147.2	139.7	130.1	123.0	120.5	119.5	119.1
67.5°	162.0	151.1	140.5	129.3	119.7	112.8	107.9	106.8	105.0	104.4	103.2
70°	141.5	131.4	120.9	110.3	101.1	99.8	98.0	96.3	94.0	93.2	92.3
72.5°	123.2	112.8	102.2	93.8	89.8	88.2	86.4	84.6	83.2	82.3	81.7
75°	94.5	84.8	77.8	74.7	72.5	71.2	68.5	67.2	66.4	65.0	64.6
77.5°	68.0	62.6	59.3	57.4	55.1	53.7	52.2	50.9	49.9	49.7	49.0
80°	51.8	49.2	47.0	44.4	43.5	41.8	41.3	40.0	40.5	39.1	39.1
82.5°	40.3	36.9	35.0	33.8	33.0	31.6	31.1	30.5	30.6	29.6	29.6
85°	20.7	19.8	18.9	18.0	18.0	16.7	17.1	16.7	16.7	15.8	15.4
87.5°	9.0	9.4	9.7	10.7	11.6	12.3	12.2	11.7	11.6	11.5	11.2
90°	11.7	15.4	20.3	25.2	30.1	35.0	34.5	34.1	33.7	33.2	33.1
92.5°	25.7	27.2	28.3	29.5	30.7	31.8	31.9	31.9	32.0	32.2	32.2
95°	60.9	62.3	62.7	63.1	63.5	64.0	64.0	64.0	64.0	64.0	63.8
97.5°	102.8	104.3	105.0	105.9	106.8	107.6	107.6	107.6	107.6	107.6	107.6
100°	134.1	135.3	136.0	136.6	137.3	138.0	138.0	138.0	138.0	138.0	137.9
102.5°	166.3	167.5	168.3	169.1	170.0	170.8	171.0	171.2	171.3	171.5	171.5
105°	217.7	218.3	218.7	219.1	219.6	220.0	220.5	220.9	221.4	221.8	222.1
107.5°	273.7	274.2	274.2	274.2	274.2	274.2	274.4	274.6	274.7	274.9	274.5
110°	310.4	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	310.7



TEST NUMBER: P331700-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	348.8	349.4	349.1	349.0	348.8	348.6	348.1	347.6	347.1	346.6	346.0
115°	405.4	405.8	405.4	404.9	404.5	404.1	403.8	403.6	403.4	403.1	402.7
117.5°	463.6	463.8	462.6	461.3	460.1	458.8	458.3	457.8	457.3	456.8	456.2
120°	501.2	501.2	499.4	497.7	495.8	494.0	494.0	494.0	494.0	494.0	493.7
122.5°	537.0	537.4	536.2	534.9	533.7	532.4	531.9	531.4	530.9	530.3	529.9
125°	590.0	590.7	590.0	589.4	588.8	588.1	587.4	586.8	586.1	585.4	585.0
127.5°	644.4	645.3	644.5	643.7	642.9	642.0	641.3	640.5	639.6	638.9	638.1
130°	678.6	679.8	679.4	679.0	678.6	678.1	677.6	677.2	676.7	676.3	675.6
132.5°	713.3	714.5	714.6	714.7	714.8	714.9	713.9	712.9	712.0	711.0	710.2
135°	762.8	764.3	764.7	765.2	765.7	766.1	765.9	765.7	765.4	765.2	764.7
137.5°	812.9	814.2	814.8	815.4	815.9	816.5	816.3	816.1	816.0	815.8	815.3
140°	844.1	845.7	846.8	847.9	849.0	850.1	850.1	850.1	850.1	850.1	849.6
142.5°	876.1	877.4	878.2	879.0	879.8	880.5	880.7	880.9	881.1	881.2	880.9
145°	920.3	921.8	923.1	924.5	925.7	927.1	927.3	927.6	927.8	928.0	927.6
147.5°	962.6	964.0	964.8	965.8	966.6	967.5	968.0	968.5	969.0	969.5	969.3
150°	988.4	989.5	990.5	991.4	992.2	993.2	993.8	994.5	995.1	995.8	995.8
152.5°	1013.2	1014.4	1015.5	1016.6	1017.7	1018.7	1019.6	1020.5	1021.2	1022.1	1022.1
155°	1047.8	1048.4	1049.1	1049.8	1050.5	1051.1	1052.2	1053.3	1054.5	1055.6	1055.8
157.5°	1078.7	1079.1	1079.5	1080.0	1080.3	1080.7	1082.3	1083.7	1085.3	1086.8	1087.0
160°	1097.9	1098.2	1098.5	1098.7	1098.9	1099.2	1100.4	1101.8	1103.1	1104.5	1104.7
162.5°	1114.1	1114.2	1114.5	1114.7	1114.9	1115.2	1116.6	1118.2	1119.6	1121.2	1121.4
165°	1136.3	1136.2	1136.2	1136.2	1136.2	1136.2	1137.7	1139.3	1140.8	1142.4	1142.5
167.5°	1154.1	1153.7	1153.7	1153.7	1153.6	1153.6	1155.1	1156.7	1158.2	1159.8	1159.9
170°	1164.5	1164.1	1163.8	1163.6	1163.4	1163.1	1164.7	1166.2	1167.8	1169.3	1169.5
172.5°	1171.6	1171.2	1171.0	1170.8	1170.5	1170.4	1171.9	1173.5	1175.0	1176.6	1176.6
175°	1180.5	1179.9	1179.5	1179.1	1178.6	1178.1	1179.7	1181.3	1182.8	1184.4	1184.5
177.5°	1184.6	1184.1	1183.8	1183.4	1183.1	1182.8	1183.8	1184.9	1185.9	1187.0	1187.0
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331700-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1214.6	1215.3	1214.3	1215.0	1214.3	1215.3	1214.6	1218.5	1219.2	1219.9	1219.2
5°	1131.7	1126.4	1125.6	1124.2	1125.6	1126.4	1131.7	1133.9	1135.7	1139.2	1145.3
7.5°	1032.8	1031.9	1029.8	1026.7	1029.8	1031.9	1032.8	1040.3	1046.3	1053.1	1065.7
10°	969.1	966.9	966.5	963.4	966.5	966.9	969.1	978.8	985.8	995.5	1012.6
12.5°	894.6	880.4	878.9	871.2	878.9	880.4	894.6	907.1	926.0	935.3	953.6
15°	761.6	759.1	750.2	744.5	750.2	759.1	761.6	772.2	779.2	804.7	834.1
17.5°	685.7	677.1	674.3	673.1	674.3	677.1	685.7	690.8	700.9	714.3	732.0
20°	636.8	629.0	627.6	626.7	627.6	629.0	636.8	643.0	650.9	665.4	683.9
22.5°	603.0	594.8	591.4	588.8	591.4	594.8	603.0	607.9	615.0	626.4	638.9
25°	545.4	542.3	540.6	539.7	540.6	542.3	545.4	549.8	556.8	572.2	585.4
27.5°	500.3	493.5	492.2	490.0	492.2	493.5	500.3	508.2	515.5	522.4	534.2
30°	474.7	472.4	469.4	466.7	469.4	472.4	474.7	478.6	483.5	495.3	506.8
32.5°	444.4	442.6	439.9	438.6	439.9	442.6	444.4	449.8	459.9	467.2	475.4
35°	411.0	404.8	402.2	398.2	402.2	404.8	411.0	415.3	419.3	425.4	440.4
37.5°	375.5	372.3	368.6	369.9	368.6	372.3	375.5	377.4	385.7	394.3	400.7
40°	348.1	345.9	345.0	344.6	345.0	345.9	348.1	353.8	363.9	367.8	377.5
42.5°	326.3	320.2	318.0	317.9	318.0	320.2	326.3	332.7	339.0	345.3	355.4
45°	293.2	287.4	283.4	284.0	283.4	287.4	293.2	295.3	300.6	313.4	319.1
47.5°	259.2	259.1	256.6	257.4	256.6	259.1	259.2	263.0	269.8	277.6	286.7
50°	243.1	240.4	238.7	239.1	238.7	240.4	243.1	246.2	250.0	254.0	268.1
52.5°	227.6	225.3	223.9	225.8	223.9	225.3	227.6	229.3	232.1	236.1	245.6
55°	202.2	199.5	199.1	198.6	199.1	199.5	202.2	204.4	207.8	210.9	215.3
57.5°	173.7	172.0	169.4	168.2	169.4	172.0	173.7	177.0	181.2	185.3	189.9
60°	153.3	149.9	145.5	145.0	145.5	149.9	153.3	159.1	160.8	167.0	172.3
62.5°	134.7	134.1	133.2	133.1	133.2	134.1	134.7	136.6	139.1	148.0	154.4
65°	118.2	117.8	118.2	118.6	118.2	117.8	118.2	119.1	119.5	120.5	123.0
67.5°	103.1	102.2	101.4	101.8	101.4	102.2	103.1	103.2	104.4	105.0	106.8
70°	91.4	91.0	90.6	90.6	90.6	91.0	91.4	92.3	93.2	94.0	96.3
72.5°	80.2	80.1	79.6	79.3	79.6	80.1	80.2	81.7	82.3	83.2	84.6
75°	64.1	63.3	63.3	63.3	63.3	63.3	64.1	64.6	65.0	66.4	67.2
77.5°	48.9	48.5	48.0	47.6	48.0	48.5	48.9	49.0	49.7	49.9	50.9
80°	38.7	38.2	37.8	37.8	37.8	38.2	38.7	39.1	39.1	40.5	40.0
82.5°	29.5	29.1	29.0	28.7	29.0	29.1	29.5	29.6	29.6	30.6	30.5
85°	15.8	16.3	15.8	16.7	15.8	16.3	15.8	15.4	15.8	16.7	16.7
87.5°	11.3	10.9	11.4	11.0	11.4	10.9	11.3	11.2	11.5	11.6	11.7
90°	33.3	33.6	33.8	34.0	33.8	33.6	33.3	33.1	33.2	33.7	34.1
92.5°	32.3	32.3	32.4	32.4	32.4	32.3	32.3	32.2	32.2	32.0	31.9
95°	63.4	62.9	62.4	62.0	62.4	62.9	63.4	63.8	64.0	64.0	64.0
97.5°	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.6	107.6	107.6	107.6
100°	137.7	137.5	137.2	137.0	137.2	137.5	137.7	137.9	138.0	138.0	138.0
102.5°	171.3	171.1	170.8	170.7	170.8	171.1	171.3	171.5	171.5	171.3	171.2
105°	222.1	222.1	222.1	222.1	222.1	222.1	222.1	222.1	221.8	221.4	220.9
107.5°	273.5	272.5	271.5	270.4	271.5	272.5	273.5	274.5	274.9	274.7	274.6
110°	310.0	309.4	308.7	308.1	308.7	309.4	310.0	310.7	311.1	311.1	311.1



TEST NUMBER: P331700-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	345.5	345.0	344.6	344.1	344.6	345.0	345.5	346.0	346.6	347.1	347.6
115°	402.1	401.4	400.7	400.0	400.7	401.4	402.1	402.7	403.1	403.4	403.6
117.5°	455.5	454.8	454.1	453.5	454.1	454.8	455.5	456.2	456.8	457.3	457.8
120°	493.1	492.4	491.7	491.0	491.7	492.4	493.1	493.7	494.0	494.0	494.0
122.5°	529.3	528.8	528.4	527.9	528.4	528.8	529.3	529.9	530.3	530.9	531.4
125°	584.7	584.5	584.3	584.1	584.3	584.5	584.7	585.0	585.4	586.1	586.8
127.5°	637.4	636.7	636.0	635.2	636.0	636.7	637.4	638.1	638.9	639.6	640.5
130°	674.8	673.8	673.0	672.1	673.0	673.8	674.8	675.6	676.3	676.7	677.2
132.5°	709.5	708.7	708.0	707.3	708.0	708.7	709.5	710.2	711.0	712.0	712.9
135°	764.1	763.4	762.8	762.1	762.8	763.4	764.1	764.7	765.2	765.4	765.7
137.5°	814.3	813.5	812.6	811.7	812.6	813.5	814.3	815.3	815.8	816.0	816.1
140°	848.8	847.9	847.0	846.1	847.0	847.9	848.8	849.6	850.1	850.1	850.1
142.5°	879.9	879.1	878.2	877.3	878.2	879.1	879.9	880.9	881.2	881.1	880.9
145°	926.8	925.9	925.0	924.1	925.0	925.9	926.8	927.6	928.0	927.8	927.6
147.5°	968.5	967.6	966.7	966.0	966.7	967.6	968.5	969.3	969.5	969.0	968.5
150°	995.1	994.5	993.8	993.2	993.8	994.5	995.1	995.8	995.8	995.1	994.5
152.5°	1021.2	1020.5	1019.6	1018.7	1019.6	1020.5	1021.2	1022.1	1022.1	1021.2	1020.5
155°	1055.2	1054.5	1053.8	1053.1	1053.8	1054.5	1055.2	1055.8	1055.6	1054.5	1053.3
157.5°	1085.9	1084.9	1083.8	1082.7	1083.8	1084.9	1085.9	1087.0	1086.8	1085.3	1083.7
160°	1103.8	1102.9	1102.0	1101.1	1102.0	1102.9	1103.8	1104.7	1104.5	1103.1	1101.8
162.5°	1120.3	1119.3	1118.2	1117.1	1118.2	1119.3	1120.3	1121.4	1121.2	1119.6	1118.2
165°	1141.5	1140.4	1139.3	1138.2	1139.3	1140.4	1141.5	1142.5	1142.4	1140.8	1139.3
167.5°	1158.8	1157.6	1156.5	1155.4	1156.5	1157.6	1158.8	1159.9	1159.8	1158.2	1156.7
170°	1168.1	1166.8	1165.4	1164.2	1165.4	1166.8	1168.1	1169.5	1169.3	1167.8	1166.2
172.5°	1175.4	1174.0	1172.7	1171.3	1172.7	1174.0	1175.4	1176.6	1176.6	1175.0	1173.5
175°	1183.2	1181.8	1180.5	1179.1	1180.5	1181.8	1183.2	1184.5	1184.4	1182.8	1181.3
177.5°	1185.9	1184.9	1183.8	1182.8	1183.8	1184.9	1185.9	1187.0	1187.0	1185.9	1184.9
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331700-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1216.3	1221.2	1228.6	1232.9	1239.9	1244.5	1247.0	1251.5	1254.0	1262.7	1272.0
5°	1148.4	1155.5	1167.8	1179.1	1191.5	1204.2	1213.5	1224.0	1233.6	1250.3	1268.0
7.5°	1070.6	1080.3	1099.3	1117.6	1139.0	1157.0	1172.9	1190.9	1207.0	1231.0	1255.9
10°	1012.2	1029.3	1054.4	1071.5	1099.7	1117.7	1142.7	1162.4	1184.9	1216.5	1244.7
12.5°	961.9	982.6	1002.6	1026.5	1051.8	1081.8	1109.3	1134.7	1161.3	1194.0	1227.1
15°	870.6	900.5	931.8	955.9	990.2	1021.8	1054.0	1088.2	1120.8	1159.9	1202.9
17.5°	753.2	787.8	840.3	881.8	922.0	953.7	993.4	1034.9	1073.2	1120.4	1168.4
20°	700.2	725.7	761.2	817.0	877.7	911.5	951.9	997.6	1041.6	1093.0	1144.4
22.5°	657.5	680.3	708.9	752.3	820.0	866.2	908.4	954.8	1005.7	1058.3	1115.3
25°	596.8	612.7	642.6	677.7	724.3	800.3	846.4	893.0	948.5	1004.7	1069.7
27.5°	551.2	565.4	584.9	618.5	653.1	707.7	781.1	831.9	887.1	950.4	1017.9
30°	516.4	533.1	554.7	578.4	616.2	658.8	732.2	791.1	845.6	910.7	982.7
32.5°	491.1	504.3	522.6	546.7	578.2	619.1	677.7	749.2	802.4	870.9	946.2
35°	449.6	465.0	479.9	502.8	528.3	565.7	610.0	686.5	739.3	806.9	882.5
37.5°	415.4	424.8	441.3	459.4	486.4	514.2	552.7	621.3	678.3	744.8	822.2
40°	389.4	401.2	413.5	433.8	455.7	482.6	520.4	571.4	636.8	701.9	777.5
42.5°	364.1	379.1	392.1	405.6	429.7	456.6	487.3	530.5	597.4	659.0	732.5
45°	333.6	343.3	356.9	371.8	391.6	414.5	441.7	479.5	543.6	596.8	665.8
47.5°	298.1	312.2	321.1	335.7	354.5	376.3	401.7	434.3	486.3	536.1	600.1
50°	273.8	288.3	301.1	314.3	331.0	352.1	373.2	404.8	446.5	498.9	558.6
52.5°	253.0	265.8	278.2	291.4	307.7	327.1	347.2	374.9	410.7	458.7	516.8
55°	224.5	232.5	245.2	258.4	272.9	291.4	310.7	334.0	364.8	405.2	452.3
57.5°	195.4	204.6	214.6	227.9	242.6	256.8	274.1	295.2	319.5	356.1	396.3
60°	178.9	185.9	194.2	207.8	221.5	234.3	251.0	268.5	291.4	323.0	357.3
62.5°	160.6	167.3	175.0	186.8	200.1	211.7	226.4	245.0	264.3	293.2	323.2
65°	130.1	139.7	147.2	157.8	168.8	181.1	192.5	207.4	224.5	247.5	274.2
67.5°	107.9	112.8	119.7	129.3	140.5	151.1	162.0	173.6	188.5	206.1	227.4
70°	98.0	99.8	101.1	110.3	120.9	131.4	141.5	152.5	165.2	179.8	198.2
72.5°	86.4	88.2	89.8	93.8	102.2	112.8	123.2	131.4	143.4	155.5	170.5
75°	68.5	71.2	72.5	74.7	77.8	84.8	94.5	102.4	109.4	118.6	130.5
77.5°	52.2	53.7	55.1	57.4	59.3	62.6	68.0	75.2	81.7	87.1	95.3
80°	41.3	41.8	43.5	44.4	47.0	49.2	51.8	57.6	64.1	66.4	72.1
82.5°	31.1	31.6	33.0	33.8	35.0	36.9	40.3	41.8	46.9	49.9	53.5
85°	17.1	16.7	18.0	18.0	18.9	19.8	20.7	22.8	24.2	27.7	28.6
87.5°	12.2	12.3	11.6	10.7	9.7	9.4	9.0	8.9	9.0	9.6	10.4
90°	34.5	35.0	30.1	25.2	20.3	15.4	11.7	9.0	6.4	3.7	1.0
92.5°	31.9	31.8	30.7	29.5	28.3	27.2	25.7	23.7	21.7	19.7	17.8
95°	64.0	64.0	63.5	63.1	62.7	62.3	60.9	58.6	56.5	54.2	52.0
97.5°	107.6	107.6	106.8	105.9	105.0	104.3	102.8	100.9	98.9	96.9	95.1
100°	138.0	138.0	137.3	136.6	136.0	135.3	134.1	132.3	130.6	128.8	127.0
102.5°	171.0	170.8	170.0	169.1	168.3	167.5	166.3	164.9	163.5	162.0	160.7
105°	220.5	220.0	219.6	219.1	218.7	218.3	217.7	217.1	216.4	215.7	215.0
107.5°	274.4	274.2	274.2	274.2	274.2	274.2	273.7	272.8	271.8	270.8	269.8
110°	311.1	311.1	311.1	311.1	311.1	311.1	310.4	309.0	307.7	306.3	305.1



TEST NUMBER: P331700-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	348.1	348.6	348.8	349.0	349.1	349.4	348.8	347.4	346.1	344.7	343.5
115°	403.8	404.1	404.5	404.9	405.4	405.8	405.4	404.1	402.7	401.4	400.0
117.5°	458.3	458.8	460.1	461.3	462.6	463.8	463.6	461.8	460.0	458.2	456.4
120°	494.0	494.0	495.8	497.7	499.4	501.2	501.2	499.4	497.7	495.8	494.0
122.5°	531.9	532.4	533.7	534.9	536.2	537.4	537.0	534.9	532.7	530.6	528.5
125°	587.4	588.1	588.8	589.4	590.0	590.7	590.0	588.1	586.1	584.1	582.0
127.5°	641.3	642.0	642.9	643.7	644.5	645.3	644.4	641.9	639.4	636.8	634.3
130°	677.6	678.1	678.6	679.0	679.4	679.8	678.6	675.7	672.9	669.9	667.1
132.5°	713.9	714.9	714.8	714.7	714.6	714.5	713.3	710.9	708.6	706.3	703.9
135°	765.9	766.1	765.7	765.2	764.7	764.3	762.8	760.4	758.0	755.5	753.1
137.5°	816.3	816.5	815.9	815.4	814.8	814.2	812.9	810.9	808.9	806.9	804.9
140°	850.1	850.1	849.0	847.9	846.8	845.7	844.1	842.1	840.1	838.1	836.1
142.5°	880.7	880.5	879.8	879.0	878.2	877.4	876.1	874.1	872.1	870.1	868.1
145°	927.3	927.1	925.7	924.5	923.1	921.8	920.3	918.8	917.2	915.7	914.1
147.5°	968.0	967.5	966.6	965.8	964.8	964.0	962.6	960.7	958.8	957.0	955.1
150°	993.8	993.2	992.2	991.4	990.5	989.5	988.4	987.1	985.8	984.5	983.1
152.5°	1019.6	1018.7	1017.7	1016.6	1015.5	1014.4	1013.2	1011.9	1010.6	1009.3	1007.9
155°	1052.2	1051.1	1050.5	1049.8	1049.1	1048.4	1047.8	1047.1	1046.5	1045.8	1045.2
157.5°	1082.3	1080.7	1080.3	1080.0	1079.5	1079.1	1078.7	1078.2	1077.8	1077.4	1076.9
160°	1100.4	1099.2	1098.9	1098.7	1098.5	1098.2	1097.9	1097.4	1097.0	1096.6	1096.1
162.5°	1116.6	1115.2	1114.9	1114.7	1114.5	1114.2	1114.1	1114.0	1113.9	1113.8	1113.7
165°	1137.7	1136.2	1136.2	1136.2	1136.2	1136.2	1136.3	1136.4	1136.7	1137.0	1137.1
167.5°	1155.1	1153.6	1153.6	1153.7	1153.7	1153.7	1154.1	1154.8	1155.4	1156.1	1156.8
170°	1164.7	1163.1	1163.4	1163.6	1163.8	1164.1	1164.5	1165.1	1165.8	1166.5	1167.2
172.5°	1171.9	1170.4	1170.5	1170.8	1171.0	1171.2	1171.6	1172.3	1173.0	1173.7	1174.3
175°	1179.7	1178.1	1178.6	1179.1	1179.5	1179.9	1180.5	1181.1	1181.8	1182.5	1183.2
177.5°	1183.8	1182.8	1183.1	1183.4	1183.8	1184.1	1184.6	1185.2	1185.7	1186.2	1186.7
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331700-935

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1272.3	1273.3	1280.4	1283.5	1289.9	1292.3	1295.1	1294.4	1294.4	1295.8	1305.7
5°	1275.0	1283.8	1296.9	1309.7	1322.0	1332.6	1339.6	1346.6	1349.3	1362.0	1373.5
7.5°	1270.4	1286.6	1308.4	1327.8	1351.1	1369.3	1384.4	1398.1	1407.4	1425.9	1444.9
10°	1264.5	1287.3	1311.9	1337.0	1369.1	1393.2	1417.8	1436.8	1442.9	1470.6	1486.4
12.5°	1252.5	1283.1	1314.4	1346.8	1378.2	1411.5	1438.6	1457.5	1479.1	1504.0	1533.2
15°	1234.6	1269.7	1310.6	1352.4	1397.1	1437.6	1466.6	1499.6	1523.3	1550.6	1576.1
17.5°	1208.8	1254.0	1306.1	1354.4	1406.2	1449.7	1489.5	1521.2	1537.9	1553.4	1557.2
20°	1188.4	1237.2	1298.3	1355.4	1407.3	1457.4	1496.9	1523.3	1527.7	1528.1	1504.9
22.5°	1166.2	1221.3	1285.3	1343.8	1405.8	1461.6	1492.4	1503.7	1486.2	1456.4	1411.4
25°	1125.6	1189.3	1263.6	1330.3	1398.1	1450.8	1461.4	1441.6	1380.4	1316.3	1235.0
27.5°	1081.4	1153.1	1232.7	1307.0	1379.1	1411.8	1389.0	1317.7	1207.6	1112.0	996.1
30°	1049.1	1129.5	1207.7	1290.8	1357.6	1371.7	1319.4	1214.4	1086.0	941.8	826.3
32.5°	1012.2	1096.5	1182.4	1268.3	1324.2	1310.5	1224.1	1094.8	944.3	802.6	693.4
35°	959.4	1046.5	1139.2	1225.3	1260.9	1201.6	1072.4	904.0	750.2	617.9	542.8
37.5°	898.5	993.2	1089.7	1168.8	1166.2	1067.4	891.4	717.6	588.3	510.1	456.6
40°	855.2	951.1	1055.2	1122.1	1093.5	964.7	774.0	610.0	515.6	453.1	414.0
42.5°	813.8	909.9	1013.4	1066.5	1016.8	858.5	668.5	540.0	462.1	413.4	381.7
45°	743.2	844.7	940.6	970.0	881.2	706.7	540.6	447.4	395.5	359.6	337.5
47.5°	674.2	774.0	861.5	862.0	741.9	573.1	456.0	387.2	342.9	315.0	299.0
50°	632.0	726.9	800.3	788.9	652.6	509.8	407.9	348.5	311.6	290.1	273.4
52.5°	584.5	676.7	740.2	707.7	577.0	448.7	364.6	314.8	284.2	265.4	250.6
55°	515.6	597.3	642.1	592.9	470.7	373.2	308.1	269.0	246.2	230.3	217.6
57.5°	447.7	515.2	543.4	486.1	387.7	309.4	260.6	231.3	208.6	197.3	190.6
60°	405.2	462.8	482.6	419.3	337.1	270.7	230.7	203.5	186.8	179.3	172.7
62.5°	363.3	410.4	418.6	360.6	293.9	236.9	202.6	179.6	168.5	161.4	155.2
65°	301.5	335.4	331.4	284.8	232.5	188.1	163.1	149.0	140.6	130.5	119.5
67.5°	248.2	268.9	256.4	221.5	177.5	146.2	129.8	119.2	108.8	99.3	96.7
70°	214.5	226.4	213.2	181.1	145.5	122.6	109.4	96.7	90.6	88.3	84.4
72.5°	182.1	186.2	172.0	144.5	118.4	101.5	88.7	81.5	78.3	76.4	73.9
75°	136.7	133.6	121.3	99.8	82.2	70.8	66.8	64.1	62.0	60.2	58.9
77.5°	96.0	91.5	80.5	66.5	57.3	51.7	49.4	48.0	46.9	46.1	44.8
80°	72.1	69.0	58.0	47.4	43.5	40.9	39.5	37.8	37.8	36.9	35.6
82.5°	52.8	49.3	39.7	34.8	32.6	31.0	30.0	29.0	28.7	28.8	27.9
85°	27.7	22.4	19.8	18.9	17.6	16.7	17.1	16.3	16.3	16.3	15.8
87.5°	9.2	7.9	8.1	8.4	9.4	10.4	11.0	12.0	13.3	12.9	13.2
90°	3.7	6.4	9.0	11.7	15.4	20.3	25.2	30.1	35.0	34.5	34.1
92.5°	19.7	21.7	23.7	25.7	27.2	28.3	29.5	30.7	31.8	31.9	31.9
95°	54.2	56.5	58.6	60.9	62.3	62.7	63.1	63.5	64.0	64.0	64.0
97.5°	96.9	98.9	100.9	102.8	104.3	105.0	105.9	106.8	107.6	107.6	107.6
100°	128.8	130.6	132.3	134.1	135.3	136.0	136.6	137.3	138.0	138.0	138.0
102.5°	162.0	163.5	164.9	166.3	167.5	168.3	169.1	170.0	170.8	171.0	171.2
105°	215.7	216.4	217.1	217.7	218.3	218.7	219.1	219.6	220.0	220.5	220.9
107.5°	270.8	271.8	272.8	273.7	274.2	274.2	274.2	274.2	274.2	274.4	274.6
110°	306.3	307.7	309.0	310.4	311.1	311.1	311.1	311.1	311.1	311.1	311.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	344.7	346.1	347.4	348.8	349.4	349.1	349.0	348.8	348.6	348.1	347.6
115°	401.4	402.7	404.1	405.4	405.8	405.4	404.9	404.5	404.1	403.8	403.6
117.5°	458.2	460.0	461.8	463.6	463.8	462.6	461.3	460.1	458.8	458.3	457.8
120°	495.8	497.7	499.4	501.2	501.2	499.4	497.7	495.8	494.0	494.0	494.0
122.5°	530.6	532.7	534.9	537.0	537.4	536.2	534.9	533.7	532.4	531.9	531.4
125°	584.1	586.1	588.1	590.0	590.7	590.0	589.4	588.8	588.1	587.4	586.8
127.5°	636.8	639.4	641.9	644.4	645.3	644.5	643.7	642.9	642.0	641.3	640.5
130°	669.9	672.9	675.7	678.6	679.8	679.4	679.0	678.6	678.1	677.6	677.2
132.5°	706.3	708.6	710.9	713.3	714.5	714.6	714.7	714.8	714.9	713.9	712.9
135°	755.5	758.0	760.4	762.8	764.3	764.7	765.2	765.7	766.1	765.9	765.7
137.5°	806.9	808.9	810.9	812.9	814.2	814.8	815.4	815.9	816.5	816.3	816.1
140°	838.1	840.1	842.1	844.1	845.7	846.8	847.9	849.0	850.1	850.1	850.1
142.5°	870.1	872.1	874.1	876.1	877.4	878.2	879.0	879.8	880.5	880.7	880.9
145°	915.7	917.2	918.8	920.3	921.8	923.1	924.5	925.7	927.1	927.3	927.6
147.5°	957.0	958.8	960.7	962.6	964.0	964.8	965.8	966.6	967.5	968.0	968.5
150°	984.5	985.8	987.1	988.4	989.5	990.5	991.4	992.2	993.2	993.8	994.5
152.5°	1009.3	1010.6	1011.9	1013.2	1014.4	1015.5	1016.6	1017.7	1018.7	1019.6	1020.5
155°	1045.8	1046.5	1047.1	1047.8	1048.4	1049.1	1049.8	1050.5	1051.1	1052.2	1053.3
157.5°	1077.4	1077.8	1078.2	1078.7	1079.1	1079.5	1080.0	1080.3	1080.7	1082.3	1083.7
160°	1096.6	1097.0	1097.4	1097.9	1098.2	1098.5	1098.7	1098.9	1099.2	1100.4	1101.8
162.5°	1113.8	1113.9	1114.0	1114.1	1114.2	1114.5	1114.7	1114.9	1115.2	1116.6	1118.2
165°	1137.0	1136.7	1136.4	1136.3	1136.2	1136.2	1136.2	1136.2	1136.2	1137.7	1139.3
167.5°	1156.1	1155.4	1154.8	1154.1	1153.7	1153.7	1153.7	1153.6	1153.6	1155.1	1156.7
170°	1166.5	1165.8	1165.1	1164.5	1164.1	1163.8	1163.6	1163.4	1163.1	1164.7	1166.2
172.5°	1173.7	1173.0	1172.3	1171.6	1171.2	1171.0	1170.8	1170.5	1170.4	1171.9	1173.5
175°	1182.5	1181.8	1181.1	1180.5	1179.9	1179.5	1179.1	1178.6	1178.1	1179.7	1181.3
177.5°	1186.2	1185.7	1185.2	1184.6	1184.1	1183.8	1183.4	1183.1	1182.8	1183.8	1184.9
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1309.2	1313.7	1315.9	1315.9	1318.4	1317.2	1316.2
5°	1384.4	1392.8	1394.6	1402.5	1408.2	1406.4	1407.3
7.5°	1459.2	1472.7	1485.9	1492.0	1493.0	1496.5	1497.8
10°	1505.3	1516.3	1537.0	1533.9	1549.2	1558.1	1543.5
12.5°	1549.6	1564.4	1578.7	1582.7	1591.5	1594.2	1588.5
15°	1589.7	1597.6	1598.4	1596.3	1598.9	1596.7	1588.4
17.5°	1552.2	1539.4	1513.4	1501.1	1491.3	1476.9	1471.1
20°	1490.3	1452.5	1408.6	1391.0	1370.4	1329.9	1339.6
22.5°	1356.8	1313.6	1269.7	1218.4	1193.9	1155.5	1153.2
25°	1148.8	1074.6	992.8	935.7	902.3	864.1	847.4
27.5°	893.2	799.7	732.7	698.8	668.0	637.7	636.4
30°	725.1	654.9	603.0	574.0	555.1	542.3	545.0
32.5°	611.2	563.1	528.1	504.0	490.1	480.4	480.3
35°	499.7	466.7	444.4	434.2	424.1	417.1	417.5
37.5°	427.7	407.9	395.4	384.2	377.9	374.4	372.6
40°	390.7	374.4	364.8	358.2	352.9	348.1	347.2
42.5°	361.5	348.1	338.4	333.2	328.3	324.9	324.0
45°	320.8	309.9	301.1	295.3	293.2	290.1	290.1
47.5°	285.4	274.6	267.8	264.2	260.4	258.3	258.2
50°	261.5	253.1	247.0	244.8	241.7	240.4	240.0
52.5°	240.0	233.8	229.5	227.9	226.6	224.9	225.2
55°	210.9	207.4	205.7	204.4	202.2	199.5	201.3
57.5°	186.4	183.5	178.7	174.6	172.5	170.7	171.4
60°	169.2	163.1	156.9	152.1	150.8	146.8	146.8
62.5°	147.4	138.8	131.2	128.5	127.2	125.4	125.0
65°	113.4	109.9	108.1	106.3	105.5	105.5	104.6
67.5°	93.9	92.6	90.7	90.1	89.3	89.0	88.8
70°	83.1	81.3	80.4	80.0	79.1	79.6	78.3
72.5°	72.5	71.1	70.9	69.8	69.2	69.3	68.4
75°	57.2	57.2	56.7	56.2	55.4	54.9	55.4
77.5°	43.9	44.0	43.2	43.1	43.0	43.1	42.7
80°	35.1	35.6	35.1	34.7	34.3	34.7	34.3
82.5°	27.8	27.1	27.0	26.9	26.9	26.6	26.5
85°	15.8	16.3	15.8	15.4	15.4	15.4	15.8
87.5°	12.7	12.7	12.6	12.7	12.7	12.7	12.4
90°	33.7	33.2	33.1	33.3	33.6	33.8	34.0
92.5°	32.0	32.2	32.2	32.3	32.3	32.4	32.4
95°	64.0	64.0	63.8	63.4	62.9	62.4	62.0
97.5°	107.6	107.6	107.6	107.5	107.5	107.5	107.5
100°	138.0	138.0	137.9	137.7	137.5	137.2	137.0
102.5°	171.3	171.5	171.5	171.3	171.1	170.8	170.7
105°	221.4	221.8	222.1	222.1	222.1	222.1	222.1
107.5°	274.7	274.9	274.5	273.5	272.5	271.5	270.4
110°	311.1	311.1	310.7	310.0	309.4	308.7	308.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	347.1	346.6	346.0	345.5	345.0	344.6	344.1
115°	403.4	403.1	402.7	402.1	401.4	400.7	400.0
117.5°	457.3	456.8	456.2	455.5	454.8	454.1	453.5
120°	494.0	494.0	493.7	493.1	492.4	491.7	491.0
122.5°	530.9	530.3	529.9	529.3	528.8	528.4	527.9
125°	586.1	585.4	585.0	584.7	584.5	584.3	584.1
127.5°	639.6	638.9	638.1	637.4	636.7	636.0	635.2
130°	676.7	676.3	675.6	674.8	673.8	673.0	672.1
132.5°	712.0	711.0	710.2	709.5	708.7	708.0	707.3
135°	765.4	765.2	764.7	764.1	763.4	762.8	762.1
137.5°	816.0	815.8	815.3	814.3	813.5	812.6	811.7
140°	850.1	850.1	849.6	848.8	847.9	847.0	846.1
142.5°	881.1	881.2	880.9	879.9	879.1	878.2	877.3
145°	927.8	928.0	927.6	926.8	925.9	925.0	924.1
147.5°	969.0	969.5	969.3	968.5	967.6	966.7	966.0
150°	995.1	995.8	995.8	995.1	994.5	993.8	993.2
152.5°	1021.2	1022.1	1022.1	1021.2	1020.5	1019.6	1018.7
155°	1054.5	1055.6	1055.8	1055.2	1054.5	1053.8	1053.1
157.5°	1085.3	1086.8	1087.0	1085.9	1084.9	1083.8	1082.7
160°	1103.1	1104.5	1104.7	1103.8	1102.9	1102.0	1101.1
162.5°	1119.6	1121.2	1121.4	1120.3	1119.3	1118.2	1117.1
165°	1140.8	1142.4	1142.5	1141.5	1140.4	1139.3	1138.2
167.5°	1158.2	1159.8	1159.9	1158.8	1157.6	1156.5	1155.4
170°	1167.8	1169.3	1169.5	1168.1	1166.8	1165.4	1164.2
172.5°	1175.0	1176.6	1176.6	1175.4	1174.0	1172.7	1171.3
175°	1182.8	1184.4	1184.5	1183.2	1181.8	1180.5	1179.1
177.5°	1185.9	1187.0	1187.0	1185.9	1184.9	1183.8	1182.8
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2

(END OF REPORT)