

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: P331507-935

Luminaire Tested: **S122DIW-S485D970U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331507-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S485D970U935-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5180.7 lumens  
Efficiency: N/A  
Efficacy: 114.6 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: Semi-Indirect

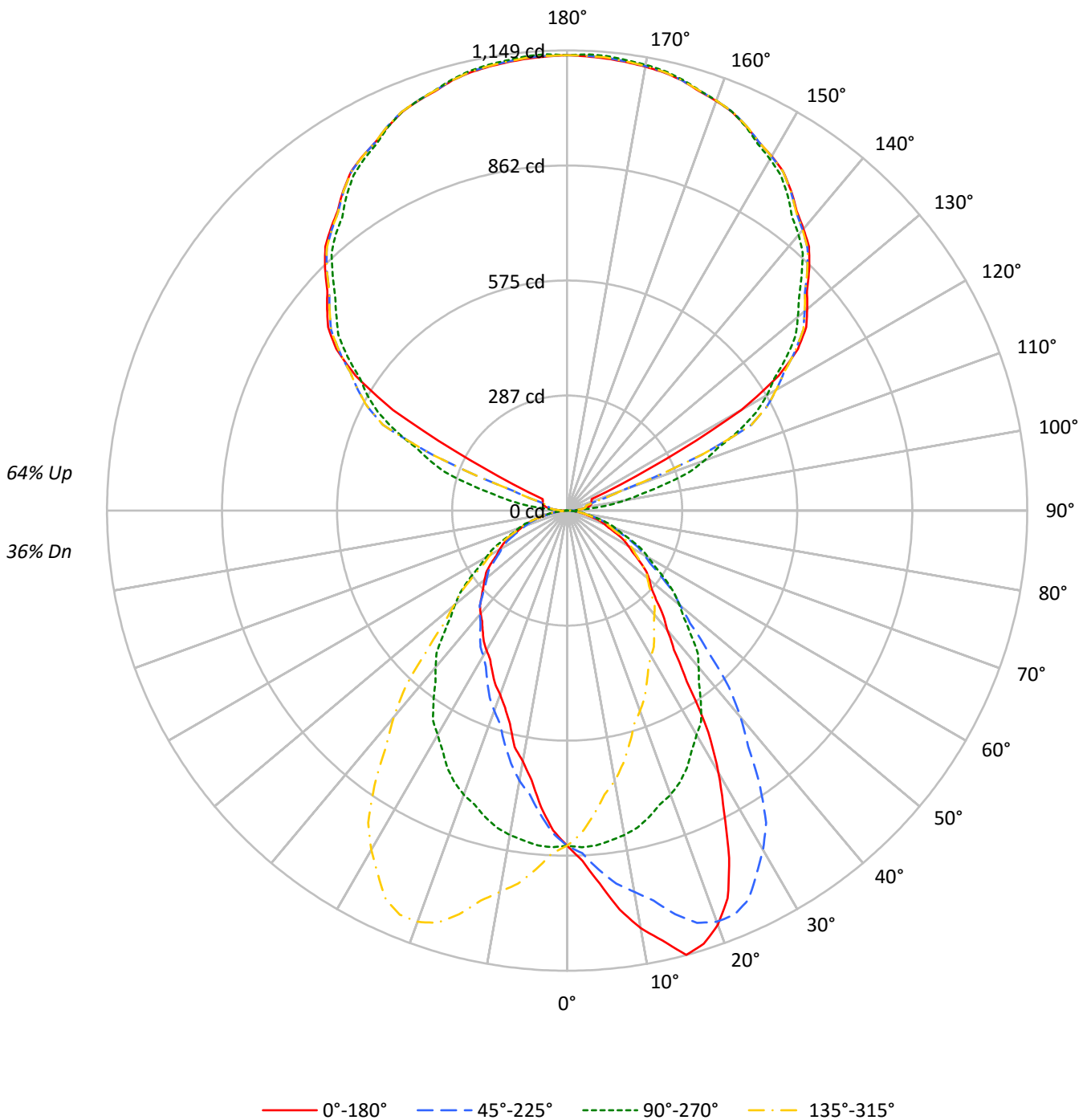
Input Watts (W): 45.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	0														
RCR																																						
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36																				
1	95	91	87	84	86	82	79	76	66	64	62	52	51	49	38	38	37	31																				
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26																				
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23																				
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	28	26	24	20																				
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17																				
6	61	50	42	37	56	46	39	34	38	32	29	30	26	24	23	20	19	15																				
7	57	45	37	32	51	41	35	30	34	29	25	27	24	21	21	18	17	14																				
8	53	41	34	28	48	38	31	26	31	26	23	25	21	19	19	17	15	12																				
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	18	15	14	11																				
10	46	34	27	23	42	31	25	21	26	21	18	21	18	15	17	14	12	10																				

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

	0°	90°	180°	270°
0°	13508	13508	13508	13508
5°	15144	13598	12049	13598
10°	17354	13485	10427	13485
15°	19199	13237	9212	13237
20°	18907	12972	8399	12972
25°	17047	12618	7883	12618
30°	14087	12055	7506	12055
35°	10267	11466	7238	11466
40°	8201	10768	7088	10768
45°	7165	9965	6887	9965
50°	6737	9183	6752	9183
55°	6210	8391	6570	8391
60°	5690	7550	6290	7550
65°	5184	6793	6021	6793
70°	4707	6057	5618	6057
75°	4173	5234	4972	5234
80°	3589	4342	3998	4342
85°	3223	3223	2371	3223



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.7	1.5
10°-20°	231.6	4.5
20°-30°	336.2	6.5
30°-40°	354.8	6.8
40°-50°	314.1	6.1
50°-60°	250.7	4.8
60°-70°	170.4	3.3
70°-80°	87.4	1.7
80°-90°	23.9	0.5
90°-100°	37.9	0.7
100°-110°	139.1	2.7
110°-120°	371.8	7.2
120°-130°	613.7	11.8
130°-140°	652.7	12.6
140°-150°	606.6	11.7
150°-160°	487.7	9.4
160°-170°	314.3	6.1
170°-180°	108.2	2.1
0°-30°	647.5	12.5
0°-40°	1002.3	19.3
0°-60°	1567.1	30.2
0°-90°	1848.7	35.7
90°-120°	548.8	10.6
90°-150°	2421.8	46.7
90°-180°	3332.0	64.3
0°-180°	5180.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	837	837	837	837	837	
5°	934	839	743	839	934	93
15°	1149	792	551	792	1149	317
25°	957	708	442	708	957	432
35°	521	582	367	582	521	339
45°	314	436	302	436	314	247
55°	221	298	233	298	221	198
65°	136	178	158	178	136	135
75°	67	84	80	84	67	71
85°	17	17	13	17	17	20
90°	22	1	22	1	22	11
95°	35	54	35	54	35	33
105°	62	250	62	250	62	65
115°	68	473	68	473	68	169
125°	703	669	703	669	703	609
135°	855	828	855	828	855	659
145°	975	960	975	960	975	610
155°	1058	1057	1058	1057	1058	488
165°	1112	1114	1112	1114	1112	314
175°	1133	1139	1133	1139	1133	108
180°	1137	1137	1137	1137	1137	



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	875.3	875.6	876.0	871.9	871.4	871.4	867.8	864.7	861.1	856.2	856.7
5°	934.4	938.0	939.3	935.4	929.6	928.9	923.5	914.5	906.1	899.4	894.6
7.5°	1005.0	1006.4	1003.3	998.2	993.9	986.2	976.0	966.0	952.1	939.3	929.8
10°	1058.5	1060.5	1055.0	1047.6	1041.5	1032.5	1017.7	1002.5	984.3	966.6	952.4
12.5°	1099.2	1104.0	1096.9	1096.0	1085.5	1073.2	1055.5	1047.8	1022.1	997.5	982.2
15°	1148.6	1148.2	1148.9	1142.8	1135.1	1133.2	1114.5	1094.2	1057.9	1043.4	1018.3
17.5°	1134.3	1139.2	1141.4	1141.3	1141.2	1140.0	1133.9	1121.2	1102.9	1079.5	1050.6
20°	1100.4	1106.7	1107.8	1115.2	1119.3	1124.8	1127.0	1123.5	1112.2	1092.6	1067.6
22.5°	1047.8	1049.6	1052.7	1064.2	1073.2	1086.9	1094.1	1106.0	1101.6	1092.1	1071.2
25°	956.9	953.7	964.9	970.8	991.6	1013.5	1029.2	1046.6	1062.0	1071.4	1065.3
27.5°	847.7	842.9	859.8	875.1	892.1	915.8	940.3	969.3	993.4	1023.6	1034.0
30°	755.6	758.5	774.6	791.0	816.7	850.2	877.8	909.6	944.1	977.8	1001.3
32.5°	656.3	667.4	677.6	702.7	725.4	762.7	803.2	843.0	886.0	924.3	960.6
35°	520.9	533.7	547.9	566.3	598.1	635.1	674.6	728.3	786.9	839.2	882.4
37.5°	438.4	436.4	444.5	457.8	483.5	513.4	558.9	612.0	680.9	742.4	803.2
40°	389.1	387.8	393.6	405.8	425.4	447.3	487.2	533.7	597.8	673.0	745.4
42.5°	355.1	355.9	359.1	367.7	381.2	399.2	429.0	468.7	527.3	598.1	675.9
45°	313.8	316.1	319.6	323.8	331.5	346.3	363.0	391.3	437.6	496.8	573.3
47.5°	284.1	284.2	287.7	291.4	296.0	304.4	318.1	335.8	368.4	416.6	482.4
50°	268.2	265.9	268.5	271.4	276.2	282.0	291.0	307.7	329.6	368.5	423.4
52.5°	248.7	248.7	251.0	252.1	256.4	262.2	270.4	282.0	301.8	332.3	377.5
55°	220.6	222.2	223.5	225.4	229.3	233.4	239.9	247.6	263.0	285.9	319.3
57.5°	194.2	194.8	196.0	199.7	202.2	206.0	212.1	219.1	229.1	246.1	271.2
60°	176.2	176.2	178.7	180.4	183.6	187.4	192.3	199.1	208.0	221.9	242.1
62.5°	159.7	159.5	160.5	163.2	165.6	169.2	174.0	179.8	188.2	200.5	217.1
65°	135.7	135.1	137.0	137.6	140.2	143.7	147.6	153.7	160.5	169.4	184.3
67.5°	112.5	113.3	114.3	115.5	117.0	120.7	123.3	127.6	133.3	140.8	150.8
70°	99.7	99.7	99.7	100.7	102.5	104.5	107.1	110.6	116.1	122.5	131.5
72.5°	85.2	86.3	87.3	86.8	89.2	90.3	93.4	95.4	100.7	104.8	112.7
75°	66.9	66.9	66.9	68.4	69.5	70.4	72.3	74.3	76.9	82.0	86.2
77.5°	49.9	49.8	50.1	50.5	51.5	52.7	53.2	55.0	57.3	59.8	63.3
80°	38.6	39.3	39.5	40.2	40.2	40.8	41.2	43.4	45.0	46.7	48.9
82.5°	29.9	30.0	30.0	30.1	30.4	30.8	31.6	32.4	32.9	34.3	36.0
85°	17.4	17.0	17.0	17.7	17.4	17.4	18.0	18.7	18.7	18.9	20.0
87.5°	11.1	11.0	11.3	10.9	10.8	10.9	10.8	10.3	10.4	10.5	10.4
90°	22.2	21.9	21.4	21.1	20.8	20.1	19.2	18.3	17.4	16.4	15.0
92.5°	22.2	22.0	21.8	21.5	21.4	21.0	20.5	20.1	19.5	19.1	18.3
95°	35.4	35.6	35.7	35.9	36.1	35.7	34.9	33.9	33.0	32.1	30.8
97.5°	47.2	47.0	46.8	46.6	46.3	45.9	45.1	44.4	43.7	43.0	40.0
100°	55.1	54.8	54.4	54.0	53.6	52.8	51.3	49.9	48.4	46.9	43.8
102.5°	59.1	58.5	58.0	57.5	57.0	55.8	53.9	52.0	50.1	48.2	44.2
105°	62.5	61.8	61.0	60.4	59.6	58.2	56.2	54.2	52.2	50.2	46.1
107.5°	64.3	63.6	62.9	62.2	61.4	62.1	64.1	66.1	68.2	70.3	74.1
110°	65.0	64.2	63.5	62.8	62.1	70.9	89.1	107.4	125.7	144.0	196.8



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	65.7	65.1	64.5	63.9	63.3	96.3	163.1	229.7	296.4	363.2	376.2
115°	67.5	80.6	93.8	106.9	120.1	169.0	253.7	338.3	422.9	507.6	503.1
117.5°	275.4	318.7	362.0	405.2	448.5	480.4	500.8	521.2	541.7	562.2	559.1
120°	501.9	526.5	551.2	575.9	600.5	611.8	609.6	607.4	605.3	603.0	599.8
122.5°	626.3	631.0	635.8	640.6	645.4	647.1	645.8	644.5	643.2	641.9	638.3
125°	703.4	702.8	702.3	701.8	701.2	700.3	699.0	697.8	696.5	695.2	691.7
127.5°	752.1	752.0	751.9	751.8	751.7	750.7	748.8	747.0	745.1	743.2	740.6
130°	782.4	782.6	782.7	782.9	783.2	782.2	780.2	778.2	776.2	774.2	772.1
132.5°	812.0	812.2	812.4	812.5	812.8	812.0	810.3	808.6	806.8	805.1	803.1
135°	854.8	855.1	855.5	855.9	856.3	855.5	853.7	851.9	850.1	848.3	846.5
137.5°	893.8	894.4	895.0	895.7	896.3	895.7	893.9	892.1	890.4	888.6	886.7
140°	918.2	919.0	920.0	920.9	921.8	921.4	919.8	918.2	916.5	914.9	912.8
142.5°	941.8	942.8	943.7	944.6	945.5	945.2	943.7	942.2	940.7	939.2	936.9
145°	974.9	975.9	976.7	977.7	978.6	978.4	977.1	975.9	974.6	973.3	970.2
147.5°	1004.0	1004.8	1005.6	1006.3	1007.1	1007.0	1006.1	1005.1	1004.2	1003.2	1000.1
150°	1021.8	1022.7	1023.6	1024.6	1025.5	1025.4	1024.2	1023.2	1022.1	1021.0	1018.0
152.5°	1037.0	1038.2	1039.4	1040.6	1041.8	1041.8	1040.7	1039.7	1038.5	1037.4	1034.7
155°	1058.0	1059.5	1060.9	1062.4	1063.9	1064.0	1062.9	1061.9	1060.8	1059.6	1057.5
157.5°	1077.3	1078.7	1080.1	1081.5	1083.0	1083.1	1081.8	1080.6	1079.3	1078.1	1076.5
160°	1088.5	1089.8	1091.0	1092.3	1093.6	1093.6	1092.5	1091.5	1090.4	1089.3	1088.2
162.5°	1097.7	1099.2	1100.8	1102.3	1104.0	1104.1	1102.9	1101.6	1100.4	1099.2	1098.2
165°	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6	1115.3	1114.0	1112.8	1111.5	1110.9
167.5°	1120.2	1121.9	1123.5	1125.2	1126.8	1127.0	1125.7	1124.4	1123.1	1121.9	1121.4
170°	1125.5	1127.1	1128.8	1130.4	1132.0	1132.2	1130.9	1129.7	1128.4	1127.1	1126.8
172.5°	1129.5	1131.1	1132.7	1134.4	1136.0	1136.2	1134.9	1133.6	1132.4	1131.1	1130.7
175°	1132.9	1134.7	1136.5	1138.3	1140.2	1140.5	1139.2	1137.9	1136.6	1135.3	1135.0
177.5°	1135.1	1136.3	1137.6	1138.9	1140.3	1140.4	1139.4	1138.4	1137.4	1136.3	1136.2
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	858.5	856.4	855.1	850.6	846.4	842.3	841.0	841.5	835.9	830.5	828.2
5°	892.0	885.5	879.4	870.7	860.5	849.2	843.4	839.0	827.7	815.5	808.4
7.5°	922.0	912.7	901.0	884.7	869.7	852.0	840.7	830.8	814.2	797.0	786.5
10°	940.2	927.6	912.6	892.6	874.3	852.7	837.7	822.5	803.2	782.6	769.8
12.5°	955.9	939.0	924.1	898.5	876.8	849.9	832.0	810.7	790.4	765.9	753.3
15°	993.2	962.1	933.8	904.8	878.1	840.5	820.6	791.9	765.3	735.0	720.6
17.5°	1022.1	987.1	942.5	905.8	874.6	832.9	803.7	769.4	737.8	703.3	683.6
20°	1038.6	998.4	950.5	906.8	869.4	821.9	790.1	755.0	718.0	679.1	657.9
22.5°	1048.4	1006.2	958.7	902.9	859.2	812.9	772.8	734.4	696.9	655.0	632.7
25°	1051.5	1012.9	962.7	899.7	846.3	793.9	745.6	708.3	663.1	623.8	591.3
27.5°	1036.1	1008.5	960.3	893.6	831.5	770.2	716.4	674.2	626.3	583.8	551.0
30°	1017.4	1001.3	954.3	887.4	819.6	753.7	694.6	646.6	599.1	555.9	522.5
32.5°	988.3	984.8	943.6	878.7	807.0	732.9	671.7	623.2	570.5	528.1	496.3
35°	931.2	946.7	920.6	859.2	783.3	703.3	637.0	581.7	527.0	486.5	456.6
37.5°	854.7	893.0	886.2	830.5	751.2	671.0	597.8	540.0	487.9	447.0	417.7
40°	801.9	850.8	857.9	808.7	728.7	646.0	568.5	510.9	460.1	422.8	393.2
42.5°	745.4	802.5	821.9	782.5	704.0	619.7	542.3	482.7	432.4	396.1	369.9
45°	650.5	726.1	761.1	738.6	662.7	576.5	496.8	436.4	390.7	356.6	336.3
47.5°	561.8	644.4	691.6	683.5	616.8	531.5	452.7	394.7	350.3	323.0	304.9
50°	499.0	583.9	640.8	643.4	583.9	499.4	420.3	365.6	324.8	299.4	284.6
52.5°	444.5	525.6	587.6	601.2	547.2	465.9	391.2	336.8	300.8	277.5	264.2
55°	373.3	441.8	510.7	535.7	492.3	415.1	345.9	298.1	264.3	248.2	236.7
57.5°	310.4	367.5	431.0	458.7	432.0	365.9	301.1	259.5	232.1	218.0	209.1
60°	277.2	322.2	378.8	411.9	388.7	329.9	273.3	233.8	211.3	198.7	190.4
62.5°	246.3	286.2	334.0	364.3	351.7	296.2	245.6	210.6	191.2	179.4	173.4
65°	203.2	234.7	271.7	299.7	291.4	249.2	207.8	177.8	162.4	153.1	148.3
67.5°	167.3	190.1	215.8	240.2	233.5	203.6	170.4	147.1	135.5	127.5	124.7
70°	144.7	162.0	184.9	204.5	199.1	174.6	148.3	128.3	118.3	111.6	108.7
72.5°	123.1	137.3	154.8	170.8	167.1	146.8	124.8	109.8	102.1	95.9	93.5
75°	92.9	103.8	114.5	125.1	124.2	108.4	95.5	83.9	77.8	73.0	72.1
77.5°	68.6	74.7	82.0	88.3	86.5	77.5	67.4	60.8	56.3	53.0	52.5
80°	52.4	56.0	61.1	65.6	63.4	59.5	51.5	46.7	43.4	40.2	38.9
82.5°	38.0	41.6	44.6	47.1	45.4	41.8	36.8	33.5	31.6	29.4	28.8
85°	20.0	21.9	23.2	23.8	23.2	20.9	18.7	17.4	15.8	14.8	14.5
87.5°	10.4	10.2	9.8	10.0	8.9	8.4	7.0	5.9	5.9	6.1	6.0
90°	13.5	12.1	10.6	8.9	6.9	4.8	2.8	0.9	2.8	4.8	6.9
92.5°	17.7	16.9	16.2	15.9	16.1	16.3	16.4	16.6	16.4	16.3	16.1
95°	29.5	28.2	26.9	29.4	35.4	41.4	47.4	53.5	47.4	41.4	35.4
97.5°	37.0	34.1	31.1	38.1	55.1	72.2	89.1	106.2	89.1	72.2	55.1
100°	40.6	37.5	34.4	45.5	70.5	95.5	120.5	145.6	120.5	95.5	70.5
102.5°	100.2	126.2	152.2	167.8	173.1	178.5	183.7	189.1	183.7	178.5	173.1
105°	150.0	199.9	249.9	272.1	266.6	261.1	255.6	250.1	255.6	261.1	266.6
107.5°	189.9	249.9	309.7	337.4	332.9	328.6	324.2	319.7	324.2	328.6	332.9
110°	249.7	302.5	355.3	379.8	376.0	372.1	368.3	364.5	368.3	372.1	376.0





TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	389.3	402.3	415.3	420.2	416.8	413.4	410.0	406.6	410.0	413.4	416.8
115°	498.4	493.9	489.3	485.5	482.4	479.3	476.1	473.0	476.1	479.3	482.4
117.5°	555.9	552.8	549.7	546.4	542.9	539.4	536.0	532.4	536.0	539.4	542.9
120°	596.5	593.1	589.9	586.9	584.1	581.3	578.7	575.9	578.7	581.3	584.1
122.5°	634.7	631.1	627.6	624.3	621.4	618.5	615.6	612.8	615.6	618.5	621.4
125°	688.3	684.8	681.3	678.4	676.0	673.6	671.2	668.8	671.2	673.6	676.0
127.5°	738.0	735.5	732.9	730.2	727.6	725.0	722.4	719.7	722.4	725.0	727.6
130°	770.2	768.1	766.1	763.6	760.7	757.9	754.9	752.0	754.9	757.9	760.7
132.5°	801.1	799.1	797.0	794.8	792.3	789.9	787.4	784.9	787.4	789.9	792.3
135°	844.9	843.3	841.6	839.4	836.5	833.5	830.6	827.7	830.6	833.5	836.5
137.5°	884.8	883.0	881.1	879.1	877.1	875.0	873.0	870.9	873.0	875.0	877.1
140°	910.9	908.8	906.8	905.1	903.6	902.2	900.7	899.2	900.7	902.2	903.6
142.5°	934.6	932.3	930.0	928.2	926.9	925.6	924.2	922.9	924.2	925.6	926.9
145°	967.1	964.0	960.9	959.4	959.6	959.8	959.9	960.1	959.9	959.8	959.6
147.5°	997.0	994.0	990.9	989.7	990.4	991.1	991.8	992.6	991.8	991.1	990.4
150°	1015.1	1012.2	1009.3	1008.5	1009.8	1011.0	1012.3	1013.6	1012.3	1011.0	1009.8
152.5°	1031.9	1029.1	1026.3	1025.6	1027.1	1028.5	1029.9	1031.4	1029.9	1028.5	1027.1
155°	1055.2	1053.1	1050.9	1050.6	1052.2	1053.9	1055.5	1057.2	1055.5	1053.9	1052.2
157.5°	1075.0	1073.5	1071.9	1071.9	1073.2	1074.6	1076.1	1077.5	1076.1	1074.6	1073.2
160°	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1088.2	1087.1	1086.0
162.5°	1097.3	1096.3	1095.4	1095.5	1096.5	1097.6	1098.7	1099.8	1098.7	1097.6	1096.5
165°	1110.3	1109.8	1109.3	1109.6	1110.7	1111.7	1112.8	1114.0	1112.8	1111.7	1110.7
167.5°	1120.8	1120.3	1119.8	1120.1	1121.2	1122.3	1123.3	1124.5	1123.3	1122.3	1121.2
170°	1126.4	1126.0	1125.7	1126.0	1127.1	1128.3	1129.3	1130.4	1129.3	1128.3	1127.1
172.5°	1130.3	1130.0	1129.6	1130.0	1131.1	1132.1	1133.2	1134.4	1133.2	1132.1	1131.1
175°	1134.6	1134.3	1133.9	1134.4	1135.7	1136.9	1138.2	1139.4	1138.2	1136.9	1135.7
177.5°	1136.0	1135.9	1135.7	1136.2	1137.2	1138.2	1139.3	1140.3	1139.3	1138.2	1137.2
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	825.6	824.1	818.6	815.8	811.2	806.8	804.0	805.3	806.3	805.8	805.0
5°	801.9	795.8	786.5	778.4	772.7	762.1	757.6	755.4	753.4	751.1	748.9
7.5°	773.8	764.1	750.8	739.3	728.5	715.3	707.8	703.3	698.6	693.5	689.1
10°	753.7	740.2	726.1	710.0	697.2	685.2	674.6	667.5	661.1	655.0	650.5
12.5°	732.6	717.0	699.6	677.6	663.4	646.4	644.8	632.3	622.2	618.5	613.2
15°	699.0	677.2	655.0	629.0	617.7	602.3	592.6	583.0	574.3	568.2	566.5
17.5°	660.9	632.6	610.5	591.9	573.4	557.6	548.7	541.0	533.8	525.6	524.6
20°	631.8	607.4	583.3	566.9	547.9	531.8	520.9	513.2	507.0	502.2	498.1
22.5°	604.3	577.6	555.5	537.5	518.8	505.8	497.2	489.8	484.7	479.4	475.4
25°	560.2	539.2	515.1	494.9	479.4	471.1	464.0	457.5	454.3	450.8	446.3
27.5°	521.5	498.3	475.7	460.0	446.4	439.0	434.0	429.6	426.6	424.6	422.0
30°	494.2	470.7	453.1	437.6	426.4	419.0	415.8	413.2	409.7	408.4	407.1
32.5°	468.0	446.9	431.7	418.4	407.6	402.8	399.8	397.5	394.8	393.5	390.9
35°	430.8	413.2	398.4	391.0	382.3	378.2	375.9	372.6	370.1	368.9	368.5
37.5°	396.0	380.6	370.8	361.4	357.7	355.1	352.1	349.8	349.0	348.9	348.5
40°	373.3	360.8	352.1	344.4	342.8	338.9	336.3	334.4	334.4	334.8	334.4
42.5°	352.8	341.5	333.8	327.2	325.3	323.0	320.4	320.3	320.8	321.8	320.8
45°	321.6	313.5	308.1	304.8	301.3	299.0	298.7	299.7	300.0	300.3	301.3
47.5°	292.8	287.5	282.6	279.1	277.5	277.1	276.7	278.4	279.9	280.5	282.0
50°	275.9	269.8	265.6	263.4	262.1	261.4	262.1	264.0	265.3	266.9	267.9
52.5°	256.8	252.5	249.7	247.9	247.4	247.8	247.9	250.1	252.2	252.7	253.2
55°	230.6	227.3	226.7	223.8	225.1	224.7	226.4	227.6	229.5	231.5	231.9
57.5°	204.3	201.7	200.0	200.3	200.6	202.1	203.4	205.7	207.8	209.7	210.0
60°	186.8	185.5	184.6	184.6	185.2	187.2	188.7	191.0	192.3	193.6	194.5
62.5°	170.9	169.6	168.6	169.1	170.8	171.9	173.8	175.0	176.3	177.6	178.1
65°	145.7	145.0	146.0	146.6	147.0	148.5	150.8	151.8	153.1	153.7	155.9
67.5°	122.4	122.6	122.4	123.4	125.2	125.6	127.7	130.0	130.3	131.5	132.9
70°	106.8	107.4	108.1	108.7	110.3	110.9	112.5	113.5	114.8	115.7	116.8
72.5°	92.4	92.5	93.2	93.0	94.4	95.7	97.1	98.1	99.4	100.6	101.5
75°	71.0	71.0	71.7	72.1	73.6	75.3	74.9	75.6	76.9	78.2	78.8
77.5°	51.9	51.2	51.9	52.2	52.7	54.1	54.3	55.3	56.7	56.3	57.0
80°	39.5	38.6	39.5	39.9	39.9	41.5	41.5	42.1	43.0	42.1	43.0
82.5°	28.2	27.8	28.5	28.6	29.1	29.1	29.6	29.8	30.7	30.3	30.7
85°	14.1	13.9	14.1	13.9	14.1	14.5	14.5	14.1	14.1	14.8	13.9
87.5°	6.1	6.2	6.3	6.5	6.6	6.6	6.5	6.7	6.9	6.6	6.7
90°	8.9	10.6	12.1	13.5	15.0	16.4	17.4	18.3	19.2	20.1	20.8
92.5°	15.9	16.2	16.9	17.7	18.3	19.1	19.5	20.1	20.5	21.0	21.4
95°	29.4	26.9	28.2	29.5	30.8	32.1	33.0	33.9	34.9	35.7	36.1
97.5°	38.1	31.1	34.1	37.0	40.0	43.0	43.7	44.4	45.1	45.9	46.3
100°	45.5	34.4	37.5	40.6	43.8	46.9	48.4	49.9	51.3	52.8	53.6
102.5°	167.8	152.2	126.2	100.2	74.2	48.2	50.1	52.0	53.9	55.8	57.0
105°	272.1	249.9	199.9	150.0	100.1	50.2	52.2	54.2	56.2	58.2	59.6
107.5°	337.4	309.7	249.9	189.9	130.1	70.3	68.2	66.1	64.1	62.1	61.4
110°	379.8	355.3	302.5	249.7	196.8	144.0	125.7	107.4	89.1	70.9	62.1



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	420.2	415.3	402.3	389.3	376.2	363.2	296.4	229.7	163.1	96.3	63.3
115°	485.5	489.3	493.9	498.4	503.1	507.6	422.9	338.3	253.7	169.0	120.1
117.5°	546.4	549.7	552.8	555.9	559.1	562.2	541.7	521.2	500.8	480.4	448.5
120°	586.9	589.9	593.1	596.5	599.8	603.0	605.3	607.4	609.6	611.8	600.5
122.5°	624.3	627.6	631.1	634.7	638.3	641.9	643.2	644.5	645.8	647.1	645.4
125°	678.4	681.3	684.8	688.3	691.7	695.2	696.5	697.8	699.0	700.3	701.2
127.5°	730.2	732.9	735.5	738.0	740.6	743.2	745.1	747.0	748.8	750.7	751.7
130°	763.6	766.1	768.1	770.2	772.1	774.2	776.2	778.2	780.2	782.2	783.2
132.5°	794.8	797.0	799.1	801.1	803.1	805.1	806.8	808.6	810.3	812.0	812.8
135°	839.4	841.6	843.3	844.9	846.5	848.3	850.1	851.9	853.7	855.5	856.3
137.5°	879.1	881.1	883.0	884.8	886.7	888.6	890.4	892.1	893.9	895.7	896.3
140°	905.1	906.8	908.8	910.9	912.8	914.9	916.5	918.2	919.8	921.4	921.8
142.5°	928.2	930.0	932.3	934.6	936.9	939.2	940.7	942.2	943.7	945.2	945.5
145°	959.4	960.9	964.0	967.1	970.2	973.3	974.6	975.9	977.1	978.4	978.6
147.5°	989.7	990.9	994.0	997.0	1000.1	1003.2	1004.2	1005.1	1006.1	1007.0	1007.1
150°	1008.5	1009.3	1012.2	1015.1	1018.0	1021.0	1022.1	1023.2	1024.2	1025.4	1025.5
152.5°	1025.6	1026.3	1029.1	1031.9	1034.7	1037.4	1038.5	1039.7	1040.7	1041.8	1041.8
155°	1050.6	1050.9	1053.1	1055.2	1057.5	1059.6	1060.8	1061.9	1062.9	1064.0	1063.9
157.5°	1071.9	1071.9	1073.5	1075.0	1076.5	1078.1	1079.3	1080.6	1081.8	1083.1	1083.0
160°	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1090.4	1091.5	1092.5	1093.6	1093.6
162.5°	1095.5	1095.4	1096.3	1097.3	1098.2	1099.2	1100.4	1101.6	1102.9	1104.1	1104.0
165°	1109.6	1109.3	1109.8	1110.3	1110.9	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6
167.5°	1120.1	1119.8	1120.3	1120.8	1121.4	1121.9	1123.1	1124.4	1125.7	1127.0	1126.8
170°	1126.0	1125.7	1126.0	1126.4	1126.8	1127.1	1128.4	1129.7	1130.9	1132.2	1132.0
172.5°	1130.0	1129.6	1130.0	1130.3	1130.7	1131.1	1132.4	1133.6	1134.9	1136.2	1136.0
175°	1134.4	1133.9	1134.3	1134.6	1135.0	1135.3	1136.6	1137.9	1139.2	1140.5	1140.2
177.5°	1136.2	1135.7	1135.9	1136.0	1136.2	1136.3	1137.4	1138.4	1139.4	1140.4	1140.3
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	802.5	801.9	801.9	799.6	801.9	801.9	802.5	805.0	805.8	806.3	805.3
5°	744.4	743.4	741.8	743.4	741.8	743.4	744.4	748.9	751.1	753.4	755.4
7.5°	687.0	683.1	682.5	678.7	682.5	683.1	687.0	689.1	693.5	698.6	703.3
10°	645.1	642.5	642.1	636.0	642.1	642.5	645.1	650.5	655.0	661.1	667.5
12.5°	613.1	606.9	608.2	604.7	608.2	606.9	613.1	613.2	618.5	622.2	632.3
15°	557.8	557.8	556.6	551.1	556.6	557.8	557.8	566.5	568.2	574.3	583.0
17.5°	518.2	517.5	514.4	516.0	514.4	517.5	518.2	524.6	525.6	533.8	541.0
20°	494.6	492.6	488.8	488.8	488.8	492.6	494.6	498.1	502.2	507.0	513.2
22.5°	472.2	472.0	468.0	469.2	468.0	472.0	472.2	475.4	479.4	484.7	489.8
25°	446.0	443.4	441.5	442.5	441.5	443.4	446.0	446.3	450.8	454.3	457.5
27.5°	421.2	419.7	419.7	417.0	419.7	419.7	421.2	422.0	424.6	426.6	429.6
30°	406.7	403.6	404.2	402.6	404.2	403.6	406.7	407.1	408.4	409.7	413.2
32.5°	390.3	389.2	388.5	387.1	388.5	389.2	390.3	390.9	393.5	394.8	397.5
35°	367.8	368.2	366.5	367.2	366.5	368.2	367.8	368.5	368.9	370.1	372.6
37.5°	348.3	349.3	348.5	348.7	348.5	349.3	348.3	348.5	348.9	349.0	349.8
40°	335.4	335.4	335.4	336.3	335.4	335.4	335.4	334.4	334.8	334.4	334.4
42.5°	323.0	322.5	322.0	321.9	322.0	322.5	323.0	320.8	321.8	320.8	320.3
45°	302.0	302.9	303.2	301.6	303.2	302.9	302.0	301.3	300.3	300.0	299.7
47.5°	282.8	282.9	282.8	284.2	282.8	282.9	282.8	282.0	280.5	279.9	278.4
50°	269.5	268.8	269.5	268.8	269.5	268.8	269.5	267.9	266.9	265.3	264.0
52.5°	255.3	255.5	255.0	254.9	255.0	255.5	255.3	253.2	252.7	252.2	250.1
55°	233.2	233.8	233.4	233.4	233.4	233.8	233.2	231.9	231.5	229.5	227.6
57.5°	210.2	210.8	211.2	209.7	211.2	210.8	210.2	210.0	209.7	207.8	205.7
60°	194.2	195.8	195.5	194.8	195.5	195.8	194.2	194.5	193.6	192.3	191.0
62.5°	179.5	180.1	180.0	179.9	180.0	180.1	179.5	178.1	177.6	176.3	175.0
65°	156.9	157.6	156.6	157.6	156.6	157.6	156.9	155.9	153.7	153.1	151.8
67.5°	132.5	132.8	133.5	133.9	133.5	132.8	132.5	132.9	131.5	130.3	130.0
70°	117.4	117.0	118.0	119.0	118.0	117.0	117.4	116.8	115.7	114.8	113.5
72.5°	101.4	102.1	101.8	102.5	101.8	102.1	101.4	101.5	100.6	99.4	98.1
75°	78.2	79.1	78.8	79.7	78.8	79.1	78.2	78.8	78.2	76.9	75.6
77.5°	56.5	56.6	56.5	57.0	56.5	56.6	56.5	57.0	56.3	56.7	55.3
80°	43.0	42.4	41.8	43.0	41.8	42.4	43.0	43.0	42.1	43.0	42.1
82.5°	30.0	30.4	29.7	29.7	29.7	30.4	30.0	30.7	30.3	30.7	29.8
85°	13.9	13.5	12.8	12.8	12.8	13.5	13.9	13.9	14.8	14.1	14.1
87.5°	6.8	6.6	6.7	6.5	6.7	6.6	6.8	6.7	6.6	6.9	6.7
90°	21.1	21.4	21.9	22.2	21.9	21.4	21.1	20.8	20.1	19.2	18.3
92.5°	21.5	21.8	22.0	22.2	22.0	21.8	21.5	21.4	21.0	20.5	20.1
95°	35.9	35.7	35.6	35.4	35.6	35.7	35.9	36.1	35.7	34.9	33.9
97.5°	46.6	46.8	47.0	47.2	47.0	46.8	46.6	46.3	45.9	45.1	44.4
100°	54.0	54.4	54.8	55.1	54.8	54.4	54.0	53.6	52.8	51.3	49.9
102.5°	57.5	58.0	58.5	59.1	58.5	58.0	57.5	57.0	55.8	53.9	52.0
105°	60.4	61.0	61.8	62.5	61.8	61.0	60.4	59.6	58.2	56.2	54.2
107.5°	62.2	62.9	63.6	64.3	63.6	62.9	62.2	61.4	62.1	64.1	66.1
110°	62.8	63.5	64.2	65.0	64.2	63.5	62.8	62.1	70.9	89.1	107.4



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	63.9	64.5	65.1	65.7	65.1	64.5	63.9	63.3	96.3	163.1	229.7
115°	106.9	93.8	80.6	67.5	80.6	93.8	106.9	120.1	169.0	253.7	338.3
117.5°	405.2	362.0	318.7	275.4	318.7	362.0	405.2	448.5	480.4	500.8	521.2
120°	575.9	551.2	526.5	501.9	526.5	551.2	575.9	600.5	611.8	609.6	607.4
122.5°	640.6	635.8	631.0	626.3	631.0	635.8	640.6	645.4	647.1	645.8	644.5
125°	701.8	702.3	702.8	703.4	702.8	702.3	701.8	701.2	700.3	699.0	697.8
127.5°	751.8	751.9	752.0	752.1	752.0	751.9	751.8	751.7	750.7	748.8	747.0
130°	782.9	782.7	782.6	782.4	782.6	782.7	782.9	783.2	782.2	780.2	778.2
132.5°	812.5	812.4	812.2	812.0	812.2	812.4	812.5	812.8	812.0	810.3	808.6
135°	855.9	855.5	855.1	854.8	855.1	855.5	855.9	856.3	855.5	853.7	851.9
137.5°	895.7	895.0	894.4	893.8	894.4	895.0	895.7	896.3	895.7	893.9	892.1
140°	920.9	920.0	919.0	918.2	919.0	920.0	920.9	921.8	921.4	919.8	918.2
142.5°	944.6	943.7	942.8	941.8	942.8	943.7	944.6	945.5	945.2	943.7	942.2
145°	977.7	976.7	975.9	974.9	975.9	976.7	977.7	978.6	978.4	977.1	975.9
147.5°	1006.3	1005.6	1004.8	1004.0	1004.8	1005.6	1006.3	1007.1	1007.0	1006.1	1005.1
150°	1024.6	1023.6	1022.7	1021.8	1022.7	1023.6	1024.6	1025.5	1025.4	1024.2	1023.2
152.5°	1040.6	1039.4	1038.2	1037.0	1038.2	1039.4	1040.6	1041.8	1041.8	1040.7	1039.7
155°	1062.4	1060.9	1059.5	1058.0	1059.5	1060.9	1062.4	1063.9	1064.0	1062.9	1061.9
157.5°	1081.5	1080.1	1078.7	1077.3	1078.7	1080.1	1081.5	1083.0	1083.1	1081.8	1080.6
160°	1092.3	1091.0	1089.8	1088.5	1089.8	1091.0	1092.3	1093.6	1093.6	1092.5	1091.5
162.5°	1102.3	1100.8	1099.2	1097.7	1099.2	1100.8	1102.3	1104.0	1104.1	1102.9	1101.6
165°	1115.3	1114.0	1112.8	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6	1115.3	1114.0
167.5°	1125.2	1123.5	1121.9	1120.2	1121.9	1123.5	1125.2	1126.8	1127.0	1125.7	1124.4
170°	1130.4	1128.8	1127.1	1125.5	1127.1	1128.8	1130.4	1132.0	1132.2	1130.9	1129.7
172.5°	1134.4	1132.7	1131.1	1129.5	1131.1	1132.7	1134.4	1136.0	1136.2	1134.9	1133.6
175°	1138.3	1136.5	1134.7	1132.9	1134.7	1136.5	1138.3	1140.2	1140.5	1139.2	1137.9
177.5°	1138.9	1137.6	1136.3	1135.1	1136.3	1137.6	1138.9	1140.3	1140.4	1139.4	1138.4
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	804.0	806.8	811.2	815.8	818.6	824.1	825.6	828.2	830.5	835.9	841.5
5°	757.6	762.1	772.7	778.4	786.5	795.8	801.9	808.4	815.5	827.7	839.0
7.5°	707.8	715.3	728.5	739.3	750.8	764.1	773.8	786.5	797.0	814.2	830.8
10°	674.6	685.2	697.2	710.0	726.1	740.2	753.7	769.8	782.6	803.2	822.5
12.5°	644.8	646.4	663.4	677.6	699.6	717.0	732.6	753.3	765.9	790.4	810.7
15°	592.6	602.3	617.7	629.0	655.0	677.2	699.0	720.6	735.0	765.3	791.9
17.5°	548.7	557.6	573.4	591.9	610.5	632.6	660.9	683.6	703.3	737.8	769.4
20°	520.9	531.8	547.9	566.9	583.3	607.4	631.8	657.9	679.1	718.0	755.0
22.5°	497.2	505.8	518.8	537.5	555.5	577.6	604.3	632.7	655.0	696.9	734.4
25°	464.0	471.1	479.4	494.9	515.1	539.2	560.2	591.3	623.8	663.1	708.3
27.5°	434.0	439.0	446.4	460.0	475.7	498.3	521.5	551.0	583.8	626.3	674.2
30°	415.8	419.0	426.4	437.6	453.1	470.7	494.2	522.5	555.9	599.1	646.6
32.5°	399.8	402.8	407.6	418.4	431.7	446.9	468.0	496.3	528.1	570.5	623.2
35°	375.9	378.2	382.3	391.0	398.4	413.2	430.8	456.6	486.5	527.0	581.7
37.5°	352.1	355.1	357.7	361.4	370.8	380.6	396.0	417.7	447.0	487.9	540.0
40°	336.3	338.9	342.8	344.4	352.1	360.8	373.3	393.2	422.8	460.1	510.9
42.5°	320.4	323.0	325.3	327.2	333.8	341.5	352.8	369.9	396.1	432.4	482.7
45°	298.7	299.0	301.3	304.8	308.1	313.5	321.6	336.3	356.6	390.7	436.4
47.5°	276.7	277.1	277.5	279.1	282.6	287.5	292.8	304.9	323.0	350.3	394.7
50°	262.1	261.4	262.1	263.4	265.6	269.8	275.9	284.6	299.4	324.8	365.6
52.5°	247.9	247.8	247.4	247.9	249.7	252.5	256.8	264.2	277.5	300.8	336.8
55°	226.4	224.7	225.1	223.8	226.7	227.3	230.6	236.7	248.2	264.3	298.1
57.5°	203.4	202.1	200.6	200.3	200.0	201.7	204.3	209.1	218.0	232.1	259.5
60°	188.7	187.2	185.2	184.6	184.6	185.5	186.8	190.4	198.7	211.3	233.8
62.5°	173.8	171.9	170.8	169.1	168.6	169.6	170.9	173.4	179.4	191.2	210.6
65°	150.8	148.5	147.0	146.6	146.0	145.0	145.7	148.3	153.1	162.4	177.8
67.5°	127.7	125.6	125.2	123.4	122.4	122.6	122.4	124.7	127.5	135.5	147.1
70°	112.5	110.9	110.3	108.7	108.1	107.4	106.8	108.7	111.6	118.3	128.3
72.5°	97.1	95.7	94.4	93.0	93.2	92.5	92.4	93.5	95.9	102.1	109.8
75°	74.9	75.3	73.6	72.1	71.7	71.0	71.0	72.1	73.0	77.8	83.9
77.5°	54.3	54.1	52.7	52.2	51.9	51.2	51.9	52.5	53.0	56.3	60.8
80°	41.5	41.5	39.9	39.9	39.5	38.6	39.5	38.9	40.2	43.4	46.7
82.5°	29.6	29.1	29.1	28.6	28.5	27.8	28.2	28.8	29.4	31.6	33.5
85°	14.5	14.5	14.1	13.9	14.1	13.9	14.1	14.5	14.8	15.8	17.4
87.5°	6.5	6.6	6.6	6.5	6.3	6.2	6.1	6.0	6.1	5.9	5.9
90°	17.4	16.4	15.0	13.5	12.1	10.6	8.9	6.9	4.8	2.8	0.9
92.5°	19.5	19.1	18.3	17.7	16.9	16.2	15.9	16.1	16.3	16.4	16.6
95°	33.0	32.1	30.8	29.5	28.2	26.9	29.4	35.4	41.4	47.4	53.5
97.5°	43.7	43.0	40.0	37.0	34.1	31.1	38.1	55.1	72.2	89.1	106.2
100°	48.4	46.9	43.8	40.6	37.5	34.4	45.5	70.5	95.5	120.5	145.6
102.5°	50.1	48.2	74.2	100.2	126.2	152.2	167.8	173.1	178.5	183.7	189.1
105°	52.2	50.2	100.1	150.0	199.9	249.9	272.1	266.6	261.1	255.6	250.1
107.5°	68.2	70.3	130.1	189.9	249.9	309.7	337.4	332.9	328.6	324.2	319.7
110°	125.7	144.0	196.8	249.7	302.5	355.3	379.8	376.0	372.1	368.3	364.5



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	296.4	363.2	376.2	389.3	402.3	415.3	420.2	416.8	413.4	410.0	406.6
115°	422.9	507.6	503.1	498.4	493.9	489.3	485.5	482.4	479.3	476.1	473.0
117.5°	541.7	562.2	559.1	555.9	552.8	549.7	546.4	542.9	539.4	536.0	532.4
120°	605.3	603.0	599.8	596.5	593.1	589.9	586.9	584.1	581.3	578.7	575.9
122.5°	643.2	641.9	638.3	634.7	631.1	627.6	624.3	621.4	618.5	615.6	612.8
125°	696.5	695.2	691.7	688.3	684.8	681.3	678.4	676.0	673.6	671.2	668.8
127.5°	745.1	743.2	740.6	738.0	735.5	732.9	730.2	727.6	725.0	722.4	719.7
130°	776.2	774.2	772.1	770.2	768.1	766.1	763.6	760.7	757.9	754.9	752.0
132.5°	806.8	805.1	803.1	801.1	799.1	797.0	794.8	792.3	789.9	787.4	784.9
135°	850.1	848.3	846.5	844.9	843.3	841.6	839.4	836.5	833.5	830.6	827.7
137.5°	890.4	888.6	886.7	884.8	883.0	881.1	879.1	877.1	875.0	873.0	870.9
140°	916.5	914.9	912.8	910.9	908.8	906.8	905.1	903.6	902.2	900.7	899.2
142.5°	940.7	939.2	936.9	934.6	932.3	930.0	928.2	926.9	925.6	924.2	922.9
145°	974.6	973.3	970.2	967.1	964.0	960.9	959.4	959.6	959.8	959.9	960.1
147.5°	1004.2	1003.2	1000.1	997.0	994.0	990.9	989.7	990.4	991.1	991.8	992.6
150°	1022.1	1021.0	1018.0	1015.1	1012.2	1009.3	1008.5	1009.8	1011.0	1012.3	1013.6
152.5°	1038.5	1037.4	1034.7	1031.9	1029.1	1026.3	1025.6	1027.1	1028.5	1029.9	1031.4
155°	1060.8	1059.6	1057.5	1055.2	1053.1	1050.9	1050.6	1052.2	1053.9	1055.5	1057.2
157.5°	1079.3	1078.1	1076.5	1075.0	1073.5	1071.9	1071.9	1073.2	1074.6	1076.1	1077.5
160°	1090.4	1089.3	1088.2	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3
162.5°	1100.4	1099.2	1098.2	1097.3	1096.3	1095.4	1095.5	1096.5	1097.6	1098.7	1099.8
165°	1112.8	1111.5	1110.9	1110.3	1109.8	1109.3	1109.6	1110.7	1111.7	1112.8	1114.0
167.5°	1123.1	1121.9	1121.4	1120.8	1120.3	1119.8	1120.1	1121.2	1122.3	1123.3	1124.5
170°	1128.4	1127.1	1126.8	1126.4	1126.0	1125.7	1126.0	1127.1	1128.3	1129.3	1130.4
172.5°	1132.4	1131.1	1130.7	1130.3	1130.0	1129.6	1130.0	1131.1	1132.1	1133.2	1134.4
175°	1136.6	1135.3	1135.0	1134.6	1134.3	1133.9	1134.4	1135.7	1136.9	1138.2	1139.4
177.5°	1137.4	1136.3	1136.2	1136.0	1135.9	1135.7	1136.2	1137.2	1138.2	1139.3	1140.3
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	841.0	842.3	846.4	850.6	855.1	856.4	858.5	856.7	856.2	861.1	864.7
5°	843.4	849.2	860.5	870.7	879.4	885.5	892.0	894.6	899.4	906.1	914.5
7.5°	840.7	852.0	869.7	884.7	901.0	912.7	922.0	929.8	939.3	952.1	966.0
10°	837.7	852.7	874.3	892.6	912.6	927.6	940.2	952.4	966.6	984.3	1002.5
12.5°	832.0	849.9	876.8	898.5	924.1	939.0	955.9	982.2	997.5	1022.1	1047.8
15°	820.6	840.5	878.1	904.8	933.8	962.1	993.2	1018.3	1043.4	1057.9	1094.2
17.5°	803.7	832.9	874.6	905.8	942.5	987.1	1022.1	1050.6	1079.5	1102.9	1121.2
20°	790.1	821.9	869.4	906.8	950.5	998.4	1038.6	1067.6	1092.6	1112.2	1123.5
22.5°	772.8	812.9	859.2	902.9	958.7	1006.2	1048.4	1071.2	1092.1	1101.6	1106.0
25°	745.6	793.9	846.3	899.7	962.7	1012.9	1051.5	1065.3	1071.4	1062.0	1046.6
27.5°	716.4	770.2	831.5	893.6	960.3	1008.5	1036.1	1034.0	1023.6	993.4	969.3
30°	694.6	753.7	819.6	887.4	954.3	1001.3	1017.4	1001.3	977.8	944.1	909.6
32.5°	671.7	732.9	807.0	878.7	943.6	984.8	988.3	960.6	924.3	886.0	843.0
35°	637.0	703.3	783.3	859.2	920.6	946.7	931.2	882.4	839.2	786.9	728.3
37.5°	597.8	671.0	751.2	830.5	886.2	893.0	854.7	803.2	742.4	680.9	612.0
40°	568.5	646.0	728.7	808.7	857.9	850.8	801.9	745.4	673.0	597.8	533.7
42.5°	542.3	619.7	704.0	782.5	821.9	802.5	745.4	675.9	598.1	527.3	468.7
45°	496.8	576.5	662.7	738.6	761.1	726.1	650.5	573.3	496.8	437.6	391.3
47.5°	452.7	531.5	616.8	683.5	691.6	644.4	561.8	482.4	416.6	368.4	335.8
50°	420.3	499.4	583.9	643.4	640.8	583.9	499.0	423.4	368.5	329.6	307.7
52.5°	391.2	465.9	547.2	601.2	587.6	525.6	444.5	377.5	332.3	301.8	282.0
55°	345.9	415.1	492.3	535.7	510.7	441.8	373.3	319.3	285.9	263.0	247.6
57.5°	301.1	365.9	432.0	458.7	431.0	367.5	310.4	271.2	246.1	229.1	219.1
60°	273.3	329.9	388.7	411.9	378.8	322.2	277.2	242.1	221.9	208.0	199.1
62.5°	245.6	296.2	351.7	364.3	334.0	286.2	246.3	217.1	200.5	188.2	179.8
65°	207.8	249.2	291.4	299.7	271.7	234.7	203.2	184.3	169.4	160.5	153.7
67.5°	170.4	203.6	233.5	240.2	215.8	190.1	167.3	150.8	140.8	133.3	127.6
70°	148.3	174.6	199.1	204.5	184.9	162.0	144.7	131.5	122.5	116.1	110.6
72.5°	124.8	146.8	167.1	170.8	154.8	137.3	123.1	112.7	104.8	100.7	95.4
75°	95.5	108.4	124.2	125.1	114.5	103.8	92.9	86.2	82.0	76.9	74.3
77.5°	67.4	77.5	86.5	88.3	82.0	74.7	68.6	63.3	59.8	57.3	55.0
80°	51.5	59.5	63.4	65.6	61.1	56.0	52.4	48.9	46.7	45.0	43.4
82.5°	36.8	41.8	45.4	47.1	44.6	41.6	38.0	36.0	34.3	32.9	32.4
85°	18.7	20.9	23.2	23.8	23.2	21.9	20.0	20.0	18.9	18.7	18.7
87.5°	7.0	8.4	8.9	10.0	9.8	10.2	10.4	10.4	10.5	10.4	10.3
90°	2.8	4.8	6.9	8.9	10.6	12.1	13.5	15.0	16.4	17.4	18.3
92.5°	16.4	16.3	16.1	15.9	16.2	16.9	17.7	18.3	19.1	19.5	20.1
95°	47.4	41.4	35.4	29.4	26.9	28.2	29.5	30.8	32.1	33.0	33.9
97.5°	89.1	72.2	55.1	38.1	31.1	34.1	37.0	40.0	43.0	43.7	44.4
100°	120.5	95.5	70.5	45.5	34.4	37.5	40.6	43.8	46.9	48.4	49.9
102.5°	183.7	178.5	173.1	167.8	152.2	126.2	100.2	74.2	48.2	50.1	52.0
105°	255.6	261.1	266.6	272.1	249.9	199.9	150.0	100.1	50.2	52.2	54.2
107.5°	324.2	328.6	332.9	337.4	309.7	249.9	189.9	130.1	70.3	68.2	66.1
110°	368.3	372.1	376.0	379.8	355.3	302.5	249.7	196.8	144.0	125.7	107.4





TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	410.0	413.4	416.8	420.2	415.3	402.3	389.3	376.2	363.2	296.4	229.7
115°	476.1	479.3	482.4	485.5	489.3	493.9	498.4	503.1	507.6	422.9	338.3
117.5°	536.0	539.4	542.9	546.4	549.7	552.8	555.9	559.1	562.2	541.7	521.2
120°	578.7	581.3	584.1	586.9	589.9	593.1	596.5	599.8	603.0	605.3	607.4
122.5°	615.6	618.5	621.4	624.3	627.6	631.1	634.7	638.3	641.9	643.2	644.5
125°	671.2	673.6	676.0	678.4	681.3	684.8	688.3	691.7	695.2	696.5	697.8
127.5°	722.4	725.0	727.6	730.2	732.9	735.5	738.0	740.6	743.2	745.1	747.0
130°	754.9	757.9	760.7	763.6	766.1	768.1	770.2	772.1	774.2	776.2	778.2
132.5°	787.4	789.9	792.3	794.8	797.0	799.1	801.1	803.1	805.1	806.8	808.6
135°	830.6	833.5	836.5	839.4	841.6	843.3	844.9	846.5	848.3	850.1	851.9
137.5°	873.0	875.0	877.1	879.1	881.1	883.0	884.8	886.7	888.6	890.4	892.1
140°	900.7	902.2	903.6	905.1	906.8	908.8	910.9	912.8	914.9	916.5	918.2
142.5°	924.2	925.6	926.9	928.2	930.0	932.3	934.6	936.9	939.2	940.7	942.2
145°	959.9	959.8	959.6	959.4	960.9	964.0	967.1	970.2	973.3	974.6	975.9
147.5°	991.8	991.1	990.4	989.7	990.9	994.0	997.0	1000.1	1003.2	1004.2	1005.1
150°	1012.3	1011.0	1009.8	1008.5	1009.3	1012.2	1015.1	1018.0	1021.0	1022.1	1023.2
152.5°	1029.9	1028.5	1027.1	1025.6	1026.3	1029.1	1031.9	1034.7	1037.4	1038.5	1039.7
155°	1055.5	1053.9	1052.2	1050.6	1050.9	1053.1	1055.2	1057.5	1059.6	1060.8	1061.9
157.5°	1076.1	1074.6	1073.2	1071.9	1071.9	1073.5	1075.0	1076.5	1078.1	1079.3	1080.6
160°	1088.2	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1090.4	1091.5
162.5°	1098.7	1097.6	1096.5	1095.5	1095.4	1096.3	1097.3	1098.2	1099.2	1100.4	1101.6
165°	1112.8	1111.7	1110.7	1109.6	1109.3	1109.8	1110.3	1110.9	1111.5	1112.8	1114.0
167.5°	1123.3	1122.3	1121.2	1120.1	1119.8	1120.3	1120.8	1121.4	1121.9	1123.1	1124.4
170°	1129.3	1128.3	1127.1	1126.0	1125.7	1126.0	1126.4	1126.8	1127.1	1128.4	1129.7
172.5°	1133.2	1132.1	1131.1	1130.0	1129.6	1130.0	1130.3	1130.7	1131.1	1132.4	1133.6
175°	1138.2	1136.9	1135.7	1134.4	1133.9	1134.3	1134.6	1135.0	1135.3	1136.6	1137.9
177.5°	1139.3	1138.2	1137.2	1136.2	1135.7	1135.9	1136.0	1136.2	1136.3	1137.4	1138.4
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	867.8	871.4	871.4	871.9	876.0	875.6	875.3
5°	923.5	928.9	929.6	935.4	939.3	938.0	934.4
7.5°	976.0	986.2	993.9	998.2	1003.3	1006.4	1005.0
10°	1017.7	1032.5	1041.5	1047.6	1055.0	1060.5	1058.5
12.5°	1055.5	1073.2	1085.5	1096.0	1096.9	1104.0	1099.2
15°	1114.5	1133.2	1135.1	1142.8	1148.9	1148.2	1148.6
17.5°	1133.9	1140.0	1141.2	1141.3	1141.4	1139.2	1134.3
20°	1127.0	1124.8	1119.3	1115.2	1107.8	1106.7	1100.4
22.5°	1094.1	1086.9	1073.2	1064.2	1052.7	1049.6	1047.8
25°	1029.2	1013.5	991.6	970.8	964.9	953.7	956.9
27.5°	940.3	915.8	892.1	875.1	859.8	842.9	847.7
30°	877.8	850.2	816.7	791.0	774.6	758.5	755.6
32.5°	803.2	762.7	725.4	702.7	677.6	667.4	656.3
35°	674.6	635.1	598.1	566.3	547.9	533.7	520.9
37.5°	558.9	513.4	483.5	457.8	444.5	436.4	438.4
40°	487.2	447.3	425.4	405.8	393.6	387.8	389.1
42.5°	429.0	399.2	381.2	367.7	359.1	355.9	355.1
45°	363.0	346.3	331.5	323.8	319.6	316.1	313.8
47.5°	318.1	304.4	296.0	291.4	287.7	284.2	284.1
50°	291.0	282.0	276.2	271.4	268.5	265.9	268.2
52.5°	270.4	262.2	256.4	252.1	251.0	248.7	248.7
55°	239.9	233.4	229.3	225.4	223.5	222.2	220.6
57.5°	212.1	206.0	202.2	199.7	196.0	194.8	194.2
60°	192.3	187.4	183.6	180.4	178.7	176.2	176.2
62.5°	174.0	169.2	165.6	163.2	160.5	159.5	159.7
65°	147.6	143.7	140.2	137.6	137.0	135.1	135.7
67.5°	123.3	120.7	117.0	115.5	114.3	113.3	112.5
70°	107.1	104.5	102.5	100.7	99.7	99.7	99.7
72.5°	93.4	90.3	89.2	86.8	87.3	86.3	85.2
75°	72.3	70.4	69.5	68.4	66.9	66.9	66.9
77.5°	53.2	52.7	51.5	50.5	50.1	49.8	49.9
80°	41.2	40.8	40.2	40.2	39.5	39.3	38.6
82.5°	31.6	30.8	30.4	30.1	30.0	30.0	29.9
85°	18.0	17.4	17.4	17.7	17.0	17.0	17.4
87.5°	10.8	10.9	10.8	10.9	11.3	11.0	11.1
90°	19.2	20.1	20.8	21.1	21.4	21.9	22.2
92.5°	20.5	21.0	21.4	21.5	21.8	22.0	22.2
95°	34.9	35.7	36.1	35.9	35.7	35.6	35.4
97.5°	45.1	45.9	46.3	46.6	46.8	47.0	47.2
100°	51.3	52.8	53.6	54.0	54.4	54.8	55.1
102.5°	53.9	55.8	57.0	57.5	58.0	58.5	59.1
105°	56.2	58.2	59.6	60.4	61.0	61.8	62.5
107.5°	64.1	62.1	61.4	62.2	62.9	63.6	64.3
110°	89.1	70.9	62.1	62.8	63.5	64.2	65.0



TEST NUMBER: P331507-935

CATALOG NUMBER: S122DIW-S485D970U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	163.1	96.3	63.3	63.9	64.5	65.1	65.7
115°	253.7	169.0	120.1	106.9	93.8	80.6	67.5
117.5°	500.8	480.4	448.5	405.2	362.0	318.7	275.4
120°	609.6	611.8	600.5	575.9	551.2	526.5	501.9
122.5°	645.8	647.1	645.4	640.6	635.8	631.0	626.3
125°	699.0	700.3	701.2	701.8	702.3	702.8	703.4
127.5°	748.8	750.7	751.7	751.8	751.9	752.0	752.1
130°	780.2	782.2	783.2	782.9	782.7	782.6	782.4
132.5°	810.3	812.0	812.8	812.5	812.4	812.2	812.0
135°	853.7	855.5	856.3	855.9	855.5	855.1	854.8
137.5°	893.9	895.7	896.3	895.7	895.0	894.4	893.8
140°	919.8	921.4	921.8	920.9	920.0	919.0	918.2
142.5°	943.7	945.2	945.5	944.6	943.7	942.8	941.8
145°	977.1	978.4	978.6	977.7	976.7	975.9	974.9
147.5°	1006.1	1007.0	1007.1	1006.3	1005.6	1004.8	1004.0
150°	1024.2	1025.4	1025.5	1024.6	1023.6	1022.7	1021.8
152.5°	1040.7	1041.8	1041.8	1040.6	1039.4	1038.2	1037.0
155°	1062.9	1064.0	1063.9	1062.4	1060.9	1059.5	1058.0
157.5°	1081.8	1083.1	1083.0	1081.5	1080.1	1078.7	1077.3
160°	1092.5	1093.6	1093.6	1092.3	1091.0	1089.8	1088.5
162.5°	1102.9	1104.1	1104.0	1102.3	1100.8	1099.2	1097.7
165°	1115.3	1116.6	1116.6	1115.3	1114.0	1112.8	1111.5
167.5°	1125.7	1127.0	1126.8	1125.2	1123.5	1121.9	1120.2
170°	1130.9	1132.2	1132.0	1130.4	1128.8	1127.1	1125.5
172.5°	1134.9	1136.2	1136.0	1134.4	1132.7	1131.1	1129.5
175°	1139.2	1140.5	1140.2	1138.3	1136.5	1134.7	1132.9
177.5°	1139.4	1140.4	1140.3	1138.9	1137.6	1136.3	1135.1
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0

(END OF REPORT)