

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: P331322-940

Luminaire Tested: **SA2XXDIP-C485D1080U940-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331322-940  
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: SA2XXDIP-C485D1080U940-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5348.7 lumens  
Efficiency: N/A  
Efficacy: 108.3 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

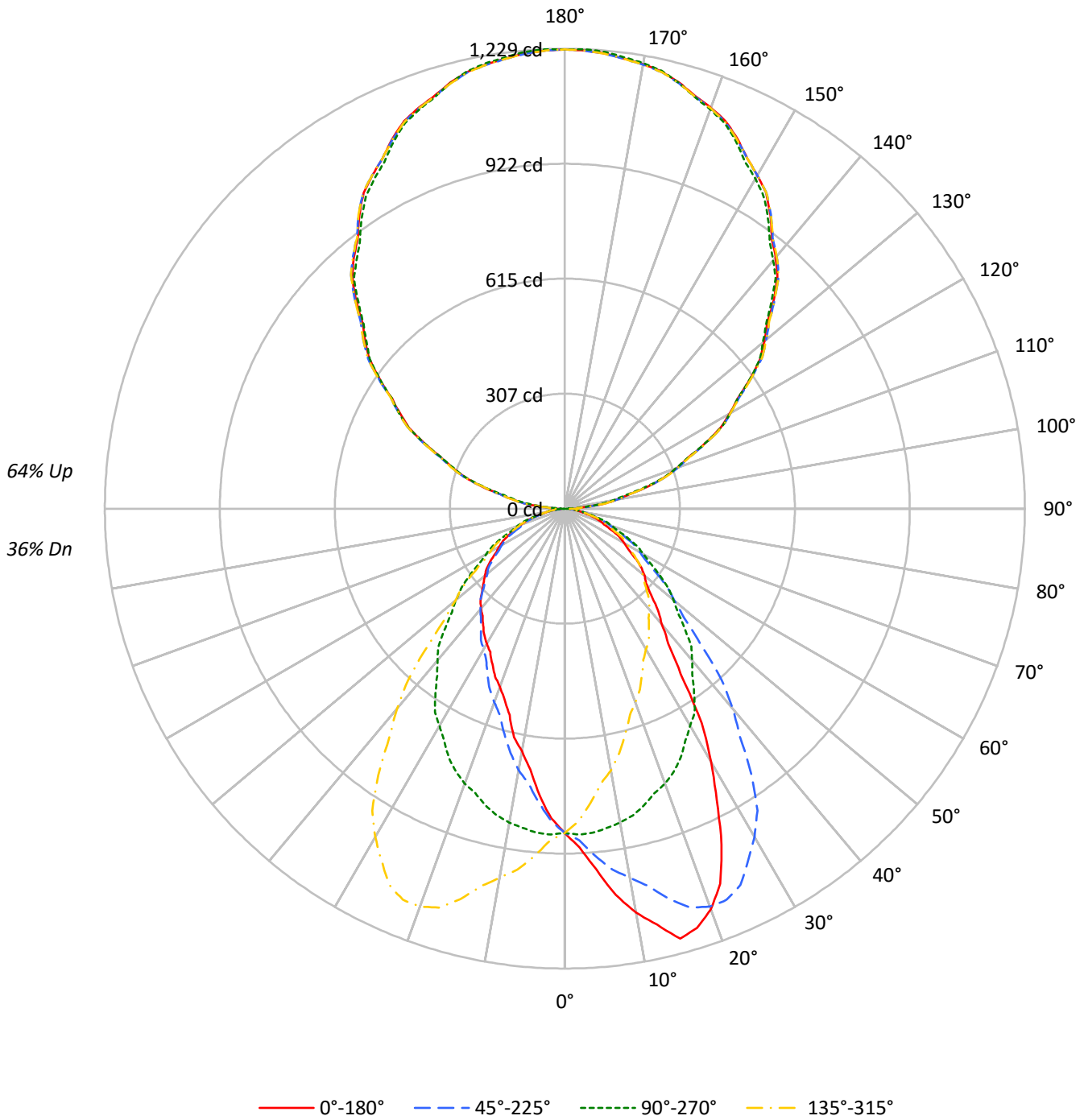
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	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	62	50	42	37	56	46	39	34	38	33	29	30	26	24	23	20	19	15
7	57	45	37	32	51	41	35	30	34	29	25	27	24	21	21	19	17	14
8	53	41	34	28	48	38	31	26	31	26	23	25	21	19	19	17	15	13
9	49	37	30	25	45	34	28	24	29	24	20	23	19	17	18	15	14	11
10	46	34	27	23	42	32	25	21	26	22	18	21	18	15	17	14	12	10

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

	0°	90°	180°	270°
0°	13990	13990	13990	13990
5°	15686	14083	12478	14083
10°	17974	13967	10799	13967
15°	19883	13710	9541	13710
20°	19581	13435	8698	13435
25°	17655	13069	8165	13069
30°	14590	12486	7774	12486
35°	10634	11874	7496	11874
40°	8494	11152	7341	11152
45°	7421	10319	7133	10319
50°	6978	9510	6993	9510
55°	6432	8690	6804	8690
60°	5893	7818	6516	7818
65°	5368	7033	6235	7033
70°	4877	6274	5816	6274
75°	4323	5421	5153	5421
80°	3710	4491	4147	4491
85°	3335	3335	2464	3335



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	1.5
10°-20°	239.9	4.5
20°-30°	348.2	6.5
30°-40°	367.4	6.9
40°-50°	325.3	6.1
50°-60°	259.6	4.9
60°-70°	176.5	3.3
70°-80°	90.5	1.7
80°-90°	26.7	0.5
90°-100°	77.8	1.5
100°-110°	241.6	4.5
110°-120°	412.9	7.7
120°-130°	543.0	10.2
130°-140°	609.4	11.4
140°-150°	597.6	11.2
150°-160°	501.2	9.4
160°-170°	332.4	6.2
170°-180°	116.2	2.2
0°-30°	670.6	12.5
0°-40°	1038.0	19.4
0°-60°	1623.0	30.3
0°-90°	1916.6	35.8
90°-120°	732.3	13.7
90°-150°	2482.3	46.4
90°-180°	3432.0	64.2
0°-180°	5348.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	866	866	866	866	866	
5°	968	869	770	869	968	97
15°	1190	820	571	820	1190	328
25°	991	734	458	734	991	448
35°	540	602	380	602	540	351
45°	325	452	312	452	325	256
55°	228	309	242	309	228	205
65°	140	184	163	184	140	140
75°	69	87	83	87	69	74
85°	18	18	13	18	18	21
90°	35	1	35	1	35	16
95°	64	54	64	54	64	72
105°	230	223	230	223	230	242
115°	414	414	414	414	414	409
125°	605	603	605	603	605	539
135°	789	780	789	780	789	608
145°	957	947	957	947	957	598
155°	1091	1082	1091	1082	1091	502
165°	1179	1178	1179	1178	1179	332
175°	1221	1225	1221	1225	1221	116
180°	1227	1227	1227	1227	1227	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	906.5	906.8	907.2	903.0	902.5	902.5	898.8	895.5	891.8	886.7	887.3
5°	967.8	971.4	972.8	968.8	962.8	962.1	956.4	947.1	938.4	931.5	926.5
7.5°	1040.9	1042.3	1039.1	1033.8	1029.4	1021.4	1010.8	1000.5	986.1	972.8	963.0
10°	1096.3	1098.3	1092.6	1084.9	1078.6	1069.3	1054.0	1038.3	1019.4	1001.0	986.4
12.5°	1138.4	1143.4	1136.0	1135.1	1124.2	1111.4	1093.1	1085.2	1058.5	1033.0	1017.3
15°	1189.5	1189.2	1189.9	1183.6	1175.5	1173.6	1154.2	1133.3	1095.6	1080.7	1054.6
17.5°	1174.7	1179.8	1182.1	1182.1	1181.9	1180.6	1174.4	1161.2	1142.3	1118.0	1088.1
20°	1139.6	1146.2	1147.3	1154.9	1159.2	1164.9	1167.2	1163.6	1151.9	1131.6	1105.6
22.5°	1085.2	1087.1	1090.2	1102.2	1111.5	1125.7	1133.1	1145.4	1140.9	1131.0	1109.4
25°	991.0	987.7	999.3	1005.4	1027.0	1049.6	1066.0	1084.0	1099.9	1109.6	1103.3
27.5°	878.0	873.0	890.5	906.3	923.9	948.4	973.8	1003.9	1028.9	1060.2	1070.9
30°	782.6	785.6	802.3	819.2	845.9	880.5	909.1	942.1	977.8	1012.7	1037.0
32.5°	679.8	691.3	701.8	727.8	751.3	789.9	831.9	873.1	917.6	957.3	994.9
35°	539.5	552.8	567.5	586.5	619.4	657.7	698.7	754.3	814.9	869.2	913.8
37.5°	454.1	452.0	460.4	474.1	500.8	531.7	578.8	633.8	705.2	768.9	831.9
40°	403.0	401.6	407.6	420.3	440.6	463.2	504.5	552.8	619.1	697.0	772.0
42.5°	367.7	368.5	371.9	380.8	394.8	413.4	444.3	485.4	546.1	619.5	700.0
45°	325.0	327.3	331.0	335.4	343.3	358.6	375.9	405.3	453.3	514.5	593.8
47.5°	294.3	294.4	298.0	301.8	306.6	315.2	329.4	347.8	381.6	431.5	499.6
50°	277.8	275.4	278.0	281.1	286.1	292.0	301.4	318.7	341.3	381.7	438.5
52.5°	257.5	257.5	259.9	261.1	265.6	271.5	280.1	292.0	312.5	344.1	390.9
55°	228.5	230.2	231.5	233.4	237.5	241.7	248.4	256.5	272.4	296.0	330.6
57.5°	201.2	201.7	203.0	206.8	209.4	213.3	219.6	226.9	237.3	254.9	280.9
60°	182.5	182.5	185.1	186.8	190.1	194.1	199.1	206.2	215.4	229.8	250.7
62.5°	165.4	165.1	166.2	169.0	171.5	175.2	180.2	186.2	194.9	207.7	224.9
65°	140.5	139.9	141.9	142.5	145.2	148.8	152.8	159.2	166.2	175.5	190.8
67.5°	116.5	117.3	118.4	119.7	121.2	125.0	127.7	132.2	138.0	145.8	156.2
70°	103.3	103.3	103.3	104.2	106.2	108.3	110.9	114.6	120.2	126.9	136.2
72.5°	88.3	89.3	90.4	89.9	92.4	93.5	96.8	98.8	104.2	108.5	116.7
75°	69.3	69.3	69.3	70.9	72.0	72.9	74.9	77.0	79.6	84.9	89.3
77.5°	51.7	51.5	51.9	52.3	53.3	54.6	55.1	57.0	59.4	61.9	65.5
80°	39.9	40.7	40.9	41.6	41.6	42.3	42.6	44.9	46.6	48.3	50.6
82.5°	30.9	31.0	31.1	31.2	31.5	31.9	32.7	33.5	34.1	35.5	37.3
85°	18.0	17.7	17.7	18.3	18.0	18.0	18.6	19.4	19.4	19.6	20.7
87.5°	14.0	13.9	14.2	13.8	13.8	14.1	14.2	14.0	14.4	14.7	14.0
90°	35.2	35.0	34.8	34.5	34.3	34.4	34.9	35.3	35.8	36.3	31.2
92.5°	33.5	33.5	33.4	33.4	33.3	33.3	33.2	33.1	33.0	32.9	31.7
95°	64.2	64.6	65.2	65.6	66.1	66.3	66.3	66.3	66.3	66.3	65.8
97.5°	111.3	111.3	111.4	111.4	111.5	111.5	111.5	111.5	111.5	111.5	110.6
100°	141.9	142.1	142.4	142.6	142.9	142.9	142.9	142.9	142.9	142.9	142.2
102.5°	176.7	176.9	177.2	177.4	177.6	177.6	177.5	177.3	177.1	176.9	176.0
105°	230.0	230.0	230.0	230.0	230.0	229.7	229.3	228.8	228.4	227.8	227.4
107.5°	280.1	281.2	282.2	283.3	284.3	284.7	284.5	284.4	284.2	284.0	284.0
110°	319.1	319.7	320.4	321.1	321.8	322.2	322.2	322.2	322.2	322.2	322.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	356.3	356.9	357.3	357.8	358.4	358.9	359.4	360.0	360.5	361.1	361.2
115°	414.3	415.0	415.7	416.4	417.1	417.5	417.8	418.0	418.2	418.5	418.9
117.5°	469.7	470.3	471.0	471.7	472.4	473.1	473.6	474.1	474.7	475.2	476.5
120°	508.5	509.3	510.0	510.7	511.3	511.7	511.7	511.7	511.7	511.7	513.5
122.5°	546.7	547.2	547.7	548.2	548.8	549.2	549.8	550.4	550.9	551.4	552.8
125°	604.9	605.1	605.4	605.6	605.8	606.3	607.0	607.7	608.3	609.0	609.8
127.5°	657.9	658.7	659.4	660.1	660.8	661.6	662.5	663.3	664.1	664.9	665.8
130°	696.1	697.0	697.9	698.8	699.7	700.4	700.9	701.3	701.8	702.3	702.8
132.5°	732.5	733.3	734.0	734.8	735.5	736.4	737.4	738.3	739.4	740.4	740.3
135°	789.3	790.0	790.7	791.3	792.0	792.5	792.7	793.0	793.2	793.4	793.0
137.5°	840.6	841.6	842.5	843.4	844.4	844.9	845.1	845.3	845.4	845.6	845.0
140°	876.3	877.2	878.2	879.0	879.9	880.4	880.4	880.4	880.4	880.4	879.3
142.5°	908.6	909.5	910.4	911.3	912.3	912.7	912.5	912.3	912.1	912.0	911.2
145°	957.1	958.0	958.9	959.8	960.7	961.1	960.9	960.6	960.4	960.2	958.8
147.5°	1000.4	1001.2	1002.1	1003.0	1003.9	1004.1	1003.5	1003.1	1002.6	1002.0	1001.1
150°	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4	1030.6	1029.9	1029.2	1028.6	1027.6
152.5°	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5	1057.7	1056.9	1056.0	1055.1	1054.0
155°	1090.7	1091.4	1092.1	1092.8	1093.4	1093.2	1092.1	1090.9	1089.8	1088.6	1088.0
157.5°	1121.3	1122.5	1123.6	1124.6	1125.8	1125.5	1124.0	1122.4	1120.9	1119.3	1118.8
160°	1140.4	1141.3	1142.3	1143.2	1144.1	1143.9	1142.5	1141.1	1139.7	1138.4	1138.1
162.5°	1157.0	1158.1	1159.2	1160.3	1161.4	1161.2	1159.6	1158.1	1156.5	1154.9	1154.7
165°	1178.8	1179.9	1181.1	1182.2	1183.3	1183.1	1181.5	1179.9	1178.3	1176.7	1176.7
167.5°	1196.6	1197.7	1198.9	1200.2	1201.3	1201.1	1199.5	1197.9	1196.3	1194.7	1194.7
170°	1205.7	1207.0	1208.4	1209.8	1211.2	1211.0	1209.4	1207.8	1206.2	1204.6	1204.9
172.5°	1213.1	1214.5	1215.8	1217.3	1218.6	1218.5	1216.9	1215.3	1213.7	1212.1	1212.3
175°	1221.2	1222.6	1224.0	1225.4	1226.7	1226.6	1225.0	1223.4	1221.8	1220.1	1220.7
177.5°	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3	1228.2	1227.2	1226.0	1224.9	1225.3
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	889.1	887.0	885.6	880.9	876.6	872.4	871.0	871.6	865.7	860.1	857.7
5°	923.8	917.1	910.8	901.8	891.2	879.5	873.5	868.9	857.2	844.5	837.2
7.5°	954.8	945.3	933.1	916.2	900.7	882.3	870.7	860.4	843.3	825.5	814.6
10°	973.7	960.7	945.1	924.4	905.4	883.2	867.5	851.9	831.9	810.6	797.3
12.5°	990.0	972.5	957.1	930.6	908.1	880.2	861.7	839.6	818.6	793.3	780.2
15°	1028.7	996.4	967.1	937.1	909.5	870.5	849.9	820.2	792.6	761.3	746.3
17.5°	1058.5	1022.3	976.2	938.1	905.8	862.6	832.3	796.8	764.1	728.3	708.0
20°	1075.7	1034.0	984.4	939.1	900.4	851.2	818.2	781.9	743.6	703.3	681.4
22.5°	1085.7	1042.1	992.9	935.1	889.8	841.9	800.4	760.6	721.8	678.3	655.2
25°	1089.0	1049.0	997.0	931.7	876.5	822.2	772.2	733.6	686.7	646.0	612.4
27.5°	1073.1	1044.5	994.5	925.5	861.1	797.6	742.0	698.2	648.6	604.6	570.7
30°	1053.6	1037.0	988.4	919.1	848.8	780.6	719.3	669.7	620.5	575.8	541.2
32.5°	1023.6	1019.9	977.2	910.1	835.8	759.0	695.6	645.4	590.8	547.0	514.0
35°	964.4	980.4	953.4	889.8	811.2	728.3	659.7	602.4	545.8	503.8	472.9
37.5°	885.2	924.9	917.8	860.1	778.0	694.9	619.1	559.3	505.3	463.0	432.6
40°	830.5	881.2	888.5	837.5	754.7	669.1	588.8	529.1	476.5	437.9	407.2
42.5°	772.0	831.1	851.2	810.4	729.1	641.9	561.6	499.9	447.8	410.2	383.1
45°	673.7	752.0	788.3	764.9	686.3	597.1	514.5	451.9	404.7	369.3	348.3
47.5°	581.8	667.4	716.2	707.9	638.8	550.5	468.9	408.8	362.7	334.6	315.8
50°	516.8	604.8	663.7	666.4	604.8	517.2	435.2	378.6	336.4	310.0	294.7
52.5°	460.4	544.3	608.6	622.7	566.7	482.5	405.1	348.8	311.6	287.4	273.7
55°	386.6	457.5	528.9	554.8	509.9	429.9	358.3	308.7	273.8	257.1	245.1
57.5°	321.5	380.6	446.4	475.1	447.4	379.0	311.8	268.8	240.4	225.8	216.6
60°	287.0	333.7	392.3	426.6	402.6	341.7	283.0	242.1	218.8	205.8	197.2
62.5°	255.1	296.4	345.9	377.3	364.3	306.7	254.3	218.1	198.0	185.8	179.6
65°	210.4	243.1	281.4	310.4	301.8	258.1	215.2	184.1	168.2	158.5	153.6
67.5°	173.3	196.9	223.5	248.8	241.8	210.9	176.5	152.3	140.4	132.1	129.1
70°	149.9	167.8	191.5	211.8	206.2	180.8	153.6	132.9	122.5	115.6	112.5
72.5°	127.5	142.2	160.3	176.9	173.1	152.0	129.3	113.7	105.8	99.3	96.8
75°	96.2	107.5	118.6	129.6	128.6	112.3	98.9	86.9	80.6	75.6	74.6
77.5°	71.1	77.4	84.9	91.4	89.6	80.3	69.8	63.0	58.3	54.9	54.4
80°	54.3	58.0	63.3	67.9	65.6	61.6	53.3	48.3	44.9	41.6	40.3
82.5°	39.3	43.1	46.2	48.8	47.0	43.2	38.1	34.7	32.7	30.4	29.9
85°	20.7	22.6	24.0	24.6	24.0	21.7	19.4	18.0	16.3	15.3	15.0
87.5°	13.2	12.2	11.2	11.0	9.6	9.0	7.4	6.1	6.3	6.6	6.7
90°	26.1	21.0	16.0	12.1	9.4	6.6	3.8	1.1	3.8	6.6	9.4
92.5°	30.6	29.3	28.2	26.6	24.5	22.5	20.4	18.5	20.4	22.5	24.5
95°	65.4	64.9	64.5	63.0	60.7	58.5	56.2	53.9	56.2	58.5	60.7
97.5°	109.7	108.8	108.0	106.5	104.5	102.5	100.4	98.4	100.4	102.5	104.5
100°	141.5	140.9	140.2	138.9	137.1	135.3	133.4	131.5	133.4	135.3	137.1
102.5°	175.1	174.3	173.4	172.3	170.8	169.3	167.8	166.4	167.8	169.3	170.8
105°	226.9	226.5	226.0	225.4	224.8	224.1	223.4	222.7	223.4	224.1	224.8
107.5°	284.0	284.0	284.0	283.5	282.5	281.5	280.4	279.5	280.4	281.5	282.5
110°	322.2	322.2	322.2	321.5	320.0	318.7	317.3	315.9	317.3	318.7	320.0





TEST NUMBER: P331322-940

CATALOG NUMBER: SA2XXDIP-C485D1080U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	361.4	361.6	361.9	361.2	359.8	358.5	357.0	355.7	357.0	358.5	359.8
115°	419.4	419.8	420.3	419.8	418.5	417.1	415.7	414.3	415.7	417.1	418.5
117.5°	477.8	479.1	480.4	480.1	478.2	476.4	474.6	472.7	474.6	476.4	478.2
120°	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7	513.5	515.4	517.2
122.5°	554.0	555.4	556.6	556.2	553.9	551.7	549.6	547.3	549.6	551.7	553.9
125°	610.5	611.1	611.8	611.1	609.0	607.0	604.9	602.8	604.9	607.0	609.0
127.5°	666.6	667.4	668.3	667.4	664.8	662.2	659.5	656.9	659.5	662.2	664.8
130°	703.2	703.6	704.1	702.8	699.8	696.9	693.8	690.9	693.8	696.9	699.8
132.5°	740.2	740.1	740.0	738.8	736.3	733.9	731.5	729.0	731.5	733.9	736.3
135°	792.5	792.0	791.6	790.1	787.6	785.1	782.5	780.0	782.5	785.1	787.6
137.5°	844.5	843.8	843.2	841.9	839.8	837.8	835.7	833.6	835.7	837.8	839.8
140°	878.2	877.0	875.8	874.2	872.2	870.0	868.0	865.9	868.0	870.0	872.2
142.5°	910.3	909.5	908.7	907.3	905.3	903.2	901.2	899.1	901.2	903.2	905.3
145°	957.4	956.0	954.7	953.1	951.5	949.9	948.3	946.7	948.3	949.9	951.5
147.5°	1000.2	999.3	998.4	996.9	995.0	993.0	991.1	989.2	991.1	993.0	995.0
150°	1026.7	1025.8	1024.8	1023.7	1022.3	1020.9	1019.6	1018.2	1019.6	1020.9	1022.3
152.5°	1052.8	1051.8	1050.6	1049.4	1048.0	1046.6	1045.3	1043.8	1045.3	1046.6	1048.0
155°	1087.3	1086.5	1085.8	1085.2	1084.5	1083.8	1083.1	1082.4	1083.1	1083.8	1084.5
157.5°	1118.5	1118.0	1117.6	1117.2	1116.7	1116.2	1115.8	1115.4	1115.8	1116.2	1116.7
160°	1137.9	1137.6	1137.4	1137.1	1136.6	1136.1	1135.7	1135.2	1135.7	1136.1	1136.6
162.5°	1154.4	1154.2	1154.0	1153.9	1153.7	1153.6	1153.5	1153.4	1153.5	1153.6	1153.7
165°	1176.7	1176.7	1176.7	1176.8	1177.0	1177.2	1177.5	1177.7	1177.5	1177.2	1177.0
167.5°	1194.8	1194.8	1194.9	1195.2	1196.0	1196.6	1197.3	1198.0	1197.3	1196.6	1196.0
170°	1205.1	1205.3	1205.6	1206.0	1206.7	1207.4	1208.1	1208.8	1208.1	1207.4	1206.7
172.5°	1212.5	1212.8	1213.0	1213.4	1214.2	1214.9	1215.6	1216.2	1215.6	1214.9	1214.2
175°	1221.1	1221.6	1222.0	1222.6	1223.2	1224.0	1224.7	1225.4	1224.7	1224.0	1223.2
177.5°	1225.7	1226.0	1226.4	1226.9	1227.4	1228.0	1228.5	1229.0	1228.5	1228.0	1227.4
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



TEST NUMBER: P331322-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	855.1	853.5	847.8	844.9	840.2	835.6	832.7	834.0	835.1	834.6	833.7
5°	830.5	824.2	814.6	806.2	800.2	789.3	784.6	782.3	780.2	777.9	775.6
7.5°	801.4	791.4	777.6	765.7	754.5	740.8	733.1	728.3	723.5	718.3	713.6
10°	780.6	766.6	752.0	735.3	722.0	709.6	698.7	691.3	684.7	678.3	673.7
12.5°	758.8	742.6	724.5	701.8	687.1	669.4	667.8	654.9	644.4	640.5	635.1
15°	724.0	701.3	678.3	651.4	639.7	623.8	613.8	603.8	594.8	588.4	586.7
17.5°	684.5	655.1	632.3	613.0	593.9	577.5	568.3	560.3	552.9	544.4	543.3
20°	654.3	629.1	604.1	587.1	567.5	550.8	539.5	531.5	525.1	520.1	515.9
22.5°	625.9	598.2	575.3	556.7	537.3	523.9	515.0	507.3	502.0	496.5	492.4
25°	580.1	558.5	533.5	512.6	496.5	487.9	480.5	473.9	470.6	466.9	462.3
27.5°	540.1	516.0	492.7	476.4	462.4	454.7	449.5	445.0	441.8	439.7	437.0
30°	511.8	487.5	469.2	453.3	441.6	433.9	430.6	427.9	424.3	422.9	421.6
32.5°	484.6	462.8	447.1	433.3	422.1	417.1	414.1	411.7	408.8	407.5	404.8
35°	446.2	427.9	412.6	404.9	395.9	391.6	389.3	385.9	383.3	382.0	381.7
37.5°	410.1	394.1	384.1	374.3	370.4	367.7	364.6	362.3	361.5	361.3	361.0
40°	386.6	373.6	364.6	356.7	355.0	351.0	348.3	346.3	346.3	346.7	346.3
42.5°	365.3	353.7	345.7	338.9	336.9	334.5	331.8	331.7	332.3	333.3	332.3
45°	333.1	324.7	319.1	315.7	312.0	309.7	309.3	310.4	310.7	311.0	312.0
47.5°	303.3	297.7	292.7	289.0	287.4	287.0	286.6	288.3	289.9	290.5	292.0
50°	285.7	279.4	275.1	272.8	271.4	270.7	271.4	273.4	274.7	276.4	277.4
52.5°	266.0	261.5	258.6	256.7	256.2	256.6	256.7	259.0	261.2	261.7	262.3
55°	238.8	235.4	234.8	231.8	233.1	232.7	234.4	235.8	237.7	239.8	240.1
57.5°	211.6	208.9	207.1	207.4	207.8	209.3	210.6	213.0	215.2	217.2	217.5
60°	193.5	192.2	191.2	191.2	191.8	193.9	195.5	197.8	199.1	200.5	201.4
62.5°	177.0	175.7	174.6	175.1	176.9	178.1	180.0	181.3	182.6	184.0	184.4
65°	150.9	150.2	151.2	151.9	152.2	153.8	156.2	157.2	158.5	159.2	161.5
67.5°	126.8	127.0	126.8	127.8	129.7	130.1	132.2	134.6	134.9	136.2	137.7
70°	110.6	111.2	111.9	112.5	114.2	114.9	116.5	117.5	118.9	119.8	120.9
72.5°	95.7	95.8	96.5	96.3	97.7	99.2	100.6	101.6	102.9	104.2	105.1
75°	73.6	73.6	74.3	74.6	76.2	77.9	77.6	78.3	79.6	81.0	81.6
77.5°	53.8	53.1	53.8	54.0	54.6	56.0	56.3	57.2	58.8	58.3	59.0
80°	40.9	39.9	40.9	41.3	41.3	43.0	43.0	43.6	44.6	43.6	44.6
82.5°	29.2	28.8	29.5	29.6	30.1	30.1	30.7	30.9	31.8	31.4	31.8
85°	14.6	14.4	14.6	14.4	14.6	15.0	15.0	14.6	14.6	15.3	14.4
87.5°	7.0	7.5	8.2	9.2	10.0	10.7	10.3	10.3	10.2	9.5	9.5
90°	12.1	16.0	21.0	26.1	31.2	36.3	35.8	35.3	34.9	34.4	34.3
92.5°	26.6	28.2	29.3	30.6	31.7	32.9	33.0	33.1	33.2	33.3	33.3
95°	63.0	64.5	64.9	65.4	65.8	66.3	66.3	66.3	66.3	66.3	66.1
97.5°	106.5	108.0	108.8	109.7	110.6	111.5	111.5	111.5	111.5	111.5	111.5
100°	138.9	140.2	140.9	141.5	142.2	142.9	142.9	142.9	142.9	142.9	142.9
102.5°	172.3	173.4	174.3	175.1	176.0	176.9	177.1	177.3	177.5	177.6	177.6
105°	225.4	226.0	226.5	226.9	227.4	227.8	228.4	228.8	229.3	229.7	230.0
107.5°	283.5	284.0	284.0	284.0	284.0	284.0	284.2	284.4	284.5	284.7	284.3
110°	321.5	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	321.8



TEST NUMBER: P331322-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	361.2	361.9	361.6	361.4	361.2	361.1	360.5	360.0	359.4	358.9	358.4
115°	419.8	420.3	419.8	419.4	418.9	418.5	418.2	418.0	417.8	417.5	417.1
117.5°	480.1	480.4	479.1	477.8	476.5	475.2	474.7	474.1	473.6	473.1	472.4
120°	519.1	519.1	517.2	515.4	513.5	511.7	511.7	511.7	511.7	511.7	511.3
122.5°	556.2	556.6	555.4	554.0	552.8	551.4	550.9	550.4	549.8	549.2	548.8
125°	611.1	611.8	611.1	610.5	609.8	609.0	608.3	607.7	607.0	606.3	605.8
127.5°	667.4	668.3	667.4	666.6	665.8	664.9	664.1	663.3	662.5	661.6	660.8
130°	702.8	704.1	703.6	703.2	702.8	702.3	701.8	701.3	700.9	700.4	699.7
132.5°	738.8	740.0	740.1	740.2	740.3	740.4	739.4	738.3	737.4	736.4	735.5
135°	790.1	791.6	792.0	792.5	793.0	793.4	793.2	793.0	792.7	792.5	792.0
137.5°	841.9	843.2	843.8	844.5	845.0	845.6	845.4	845.3	845.1	844.9	844.4
140°	874.2	875.8	877.0	878.2	879.3	880.4	880.4	880.4	880.4	880.4	879.9
142.5°	907.3	908.7	909.5	910.3	911.2	912.0	912.1	912.3	912.5	912.7	912.3
145°	953.1	954.7	956.0	957.4	958.8	960.2	960.4	960.6	960.9	961.1	960.7
147.5°	996.9	998.4	999.3	1000.2	1001.1	1002.0	1002.6	1003.1	1003.5	1004.1	1003.9
150°	1023.7	1024.8	1025.8	1026.7	1027.6	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4
152.5°	1049.4	1050.6	1051.8	1052.8	1054.0	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5
155°	1085.2	1085.8	1086.5	1087.3	1088.0	1088.6	1089.8	1090.9	1092.1	1093.2	1093.4
157.5°	1117.2	1117.6	1118.0	1118.5	1118.8	1119.3	1120.9	1122.4	1124.0	1125.5	1125.8
160°	1137.1	1137.4	1137.6	1137.9	1138.1	1138.4	1139.7	1141.1	1142.5	1143.9	1144.1
162.5°	1153.9	1154.0	1154.2	1154.4	1154.7	1154.9	1156.5	1158.1	1159.6	1161.2	1161.4
165°	1176.8	1176.7	1176.7	1176.7	1176.7	1176.7	1178.3	1179.9	1181.5	1183.1	1183.3
167.5°	1195.2	1194.9	1194.8	1194.8	1194.7	1194.7	1196.3	1197.9	1199.5	1201.1	1201.3
170°	1206.0	1205.6	1205.3	1205.1	1204.9	1204.6	1206.2	1207.8	1209.4	1211.0	1211.2
172.5°	1213.4	1213.0	1212.8	1212.5	1212.3	1212.1	1213.7	1215.3	1216.9	1218.5	1218.6
175°	1222.6	1222.0	1221.6	1221.1	1220.7	1220.1	1221.8	1223.4	1225.0	1226.6	1226.7
177.5°	1226.9	1226.4	1226.0	1225.7	1225.3	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



TEST NUMBER: P331322-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	831.1	830.5	830.5	828.1	830.5	830.5	831.1	833.7	834.6	835.1	834.0
5°	771.0	769.9	768.3	769.9	768.3	769.9	771.0	775.6	777.9	780.2	782.3
7.5°	711.5	707.5	706.9	702.9	706.9	707.5	711.5	713.6	718.3	723.5	728.3
10°	668.1	665.4	665.0	658.7	665.0	665.4	668.1	673.7	678.3	684.7	691.3
12.5°	635.0	628.6	629.9	626.2	629.9	628.6	635.0	635.1	640.5	644.4	654.9
15°	577.7	577.7	576.5	570.8	576.5	577.7	577.7	586.7	588.4	594.8	603.8
17.5°	536.7	536.0	532.8	534.4	532.8	536.0	536.7	543.3	544.4	552.9	560.3
20°	512.2	510.1	506.2	506.2	506.2	510.1	512.2	515.9	520.1	525.1	531.5
22.5°	489.0	488.8	484.6	486.0	484.6	488.8	489.0	492.4	496.5	502.0	507.3
25°	461.9	459.2	457.3	458.3	457.3	459.2	461.9	462.3	466.9	470.6	473.9
27.5°	436.2	434.7	434.6	431.9	434.6	434.7	436.2	437.0	439.7	441.8	445.0
30°	421.2	417.9	418.6	417.0	418.6	417.9	421.2	421.6	422.9	424.3	427.9
32.5°	404.2	403.1	402.3	400.9	402.3	403.1	404.2	404.8	407.5	408.8	411.7
35°	380.9	381.3	379.6	380.3	379.6	381.3	380.9	381.7	382.0	383.3	385.9
37.5°	360.7	361.8	361.0	361.1	361.0	361.8	360.7	361.0	361.3	361.5	362.3
40°	347.3	347.3	347.3	348.3	347.3	347.3	347.3	346.3	346.7	346.3	346.3
42.5°	334.6	334.0	333.5	333.4	333.5	334.0	334.6	332.3	333.3	332.3	331.7
45°	312.7	313.7	314.1	312.4	314.1	313.7	312.7	312.0	311.0	310.7	310.4
47.5°	292.9	293.0	292.9	294.4	292.9	293.0	292.9	292.0	290.5	289.9	288.3
50°	279.1	278.4	279.1	278.4	279.1	278.4	279.1	277.4	276.4	274.7	273.4
52.5°	264.4	264.6	264.1	264.0	264.1	264.6	264.4	262.3	261.7	261.2	259.0
55°	241.5	242.1	241.7	241.7	241.7	242.1	241.5	240.1	239.8	237.7	235.8
57.5°	217.7	218.3	218.7	217.2	218.7	218.3	217.7	217.5	217.2	215.2	213.0
60°	201.2	202.8	202.5	201.8	202.5	202.8	201.2	201.4	200.5	199.1	197.8
62.5°	185.9	186.5	186.5	186.4	186.5	186.5	185.9	184.4	184.0	182.6	181.3
65°	162.5	163.2	162.2	163.2	162.2	163.2	162.5	161.5	159.2	158.5	157.2
67.5°	137.2	137.5	138.2	138.7	138.2	137.5	137.2	137.7	136.2	134.9	134.6
70°	121.5	121.2	122.3	123.2	122.3	121.2	121.5	120.9	119.8	118.9	117.5
72.5°	105.0	105.8	105.4	106.2	105.4	105.8	105.0	105.1	104.2	102.9	101.6
75°	81.0	81.9	81.6	82.6	81.6	81.9	81.0	81.6	81.0	79.6	78.3
77.5°	58.5	58.6	58.5	59.0	58.5	58.6	58.5	59.0	58.3	58.8	57.2
80°	44.6	44.0	43.2	44.6	43.2	44.0	44.6	44.6	43.6	44.6	43.6
82.5°	31.0	31.5	30.8	30.8	30.8	31.5	31.0	31.8	31.4	31.8	30.9
85°	14.4	14.0	13.3	13.3	13.3	14.0	14.4	14.4	15.3	14.6	14.6
87.5°	9.5	9.4	9.4	9.2	9.4	9.4	9.5	9.5	9.5	10.2	10.3
90°	34.5	34.8	35.0	35.2	35.0	34.8	34.5	34.3	34.4	34.9	35.3
92.5°	33.4	33.4	33.5	33.5	33.5	33.4	33.4	33.3	33.3	33.2	33.1
95°	65.6	65.2	64.6	64.2	64.6	65.2	65.6	66.1	66.3	66.3	66.3
97.5°	111.4	111.4	111.3	111.3	111.3	111.4	111.4	111.5	111.5	111.5	111.5
100°	142.6	142.4	142.1	141.9	142.1	142.4	142.6	142.9	142.9	142.9	142.9
102.5°	177.4	177.2	176.9	176.7	176.9	177.2	177.4	177.6	177.6	177.5	177.3
105°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	229.7	229.3	228.8
107.5°	283.3	282.2	281.2	280.1	281.2	282.2	283.3	284.3	284.7	284.5	284.4
110°	321.1	320.4	319.7	319.1	319.7	320.4	321.1	321.8	322.2	322.2	322.2



TEST NUMBER: P331322-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	357.8	357.3	356.9	356.3	356.9	357.3	357.8	358.4	358.9	359.4	360.0
115°	416.4	415.7	415.0	414.3	415.0	415.7	416.4	417.1	417.5	417.8	418.0
117.5°	471.7	471.0	470.3	469.7	470.3	471.0	471.7	472.4	473.1	473.6	474.1
120°	510.7	510.0	509.3	508.5	509.3	510.0	510.7	511.3	511.7	511.7	511.7
122.5°	548.2	547.7	547.2	546.7	547.2	547.7	548.2	548.8	549.2	549.8	550.4
125°	605.6	605.4	605.1	604.9	605.1	605.4	605.6	605.8	606.3	607.0	607.7
127.5°	660.1	659.4	658.7	657.9	658.7	659.4	660.1	660.8	661.6	662.5	663.3
130°	698.8	697.9	697.0	696.1	697.0	697.9	698.8	699.7	700.4	700.9	701.3
132.5°	734.8	734.0	733.3	732.5	733.3	734.0	734.8	735.5	736.4	737.4	738.3
135°	791.3	790.7	790.0	789.3	790.0	790.7	791.3	792.0	792.5	792.7	793.0
137.5°	843.4	842.5	841.6	840.6	841.6	842.5	843.4	844.4	844.9	845.1	845.3
140°	879.0	878.2	877.2	876.3	877.2	878.2	879.0	879.9	880.4	880.4	880.4
142.5°	911.3	910.4	909.5	908.6	909.5	910.4	911.3	912.3	912.7	912.5	912.3
145°	959.8	958.9	958.0	957.1	958.0	958.9	959.8	960.7	961.1	960.9	960.6
147.5°	1003.0	1002.1	1001.2	1000.4	1001.2	1002.1	1003.0	1003.9	1004.1	1003.5	1003.1
150°	1030.6	1029.9	1029.2	1028.6	1029.2	1029.9	1030.6	1031.4	1031.4	1030.6	1029.9
152.5°	1057.7	1056.9	1056.0	1055.1	1056.0	1056.9	1057.7	1058.5	1058.5	1057.7	1056.9
155°	1092.8	1092.1	1091.4	1090.7	1091.4	1092.1	1092.8	1093.4	1093.2	1092.1	1090.9
157.5°	1124.6	1123.6	1122.5	1121.3	1122.5	1123.6	1124.6	1125.8	1125.5	1124.0	1122.4
160°	1143.2	1142.3	1141.3	1140.4	1141.3	1142.3	1143.2	1144.1	1143.9	1142.5	1141.1
162.5°	1160.3	1159.2	1158.1	1157.0	1158.1	1159.2	1160.3	1161.4	1161.2	1159.6	1158.1
165°	1182.2	1181.1	1179.9	1178.8	1179.9	1181.1	1182.2	1183.3	1183.1	1181.5	1179.9
167.5°	1200.2	1198.9	1197.7	1196.6	1197.7	1198.9	1200.2	1201.3	1201.1	1199.5	1197.9
170°	1209.8	1208.4	1207.0	1205.7	1207.0	1208.4	1209.8	1211.2	1211.0	1209.4	1207.8
172.5°	1217.3	1215.8	1214.5	1213.1	1214.5	1215.8	1217.3	1218.6	1218.5	1216.9	1215.3
175°	1225.4	1224.0	1222.6	1221.2	1222.6	1224.0	1225.4	1226.7	1226.6	1225.0	1223.4
177.5°	1228.2	1227.2	1226.0	1224.9	1226.0	1227.2	1228.2	1229.3	1229.3	1228.2	1227.2
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



TEST NUMBER: P331322-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	832.7	835.6	840.2	844.9	847.8	853.5	855.1	857.7	860.1	865.7	871.6
5°	784.6	789.3	800.2	806.2	814.6	824.2	830.5	837.2	844.5	857.2	868.9
7.5°	733.1	740.8	754.5	765.7	777.6	791.4	801.4	814.6	825.5	843.3	860.4
10°	698.7	709.6	722.0	735.3	752.0	766.6	780.6	797.3	810.6	831.9	851.9
12.5°	667.8	669.4	687.1	701.8	724.5	742.6	758.8	780.2	793.3	818.6	839.6
15°	613.8	623.8	639.7	651.4	678.3	701.3	724.0	746.3	761.3	792.6	820.2
17.5°	568.3	577.5	593.9	613.0	632.3	655.1	684.5	708.0	728.3	764.1	796.8
20°	539.5	550.8	567.5	587.1	604.1	629.1	654.3	681.4	703.3	743.6	781.9
22.5°	515.0	523.9	537.3	556.7	575.3	598.2	625.9	655.2	678.3	721.8	760.6
25°	480.5	487.9	496.5	512.6	533.5	558.5	580.1	612.4	646.0	686.7	733.6
27.5°	449.5	454.7	462.4	476.4	492.7	516.0	540.1	570.7	604.6	648.6	698.2
30°	430.6	433.9	441.6	453.3	469.2	487.5	511.8	541.2	575.8	620.5	669.7
32.5°	414.1	417.1	422.1	433.3	447.1	462.8	484.6	514.0	547.0	590.8	645.4
35°	389.3	391.6	395.9	404.9	412.6	427.9	446.2	472.9	503.8	545.8	602.4
37.5°	364.6	367.7	370.4	374.3	384.1	394.1	410.1	432.6	463.0	505.3	559.3
40°	348.3	351.0	355.0	356.7	364.6	373.6	386.6	407.2	437.9	476.5	529.1
42.5°	331.8	334.5	336.9	338.9	345.7	353.7	365.3	383.1	410.2	447.8	499.9
45°	309.3	309.7	312.0	315.7	319.1	324.7	333.1	348.3	369.3	404.7	451.9
47.5°	286.6	287.0	287.4	289.0	292.7	297.7	303.3	315.8	334.6	362.7	408.8
50°	271.4	270.7	271.4	272.8	275.1	279.4	285.7	294.7	310.0	336.4	378.6
52.5°	256.7	256.6	256.2	256.7	258.6	261.5	266.0	273.7	287.4	311.6	348.8
55°	234.4	232.7	233.1	231.8	234.8	235.4	238.8	245.1	257.1	273.8	308.7
57.5°	210.6	209.3	207.8	207.4	207.1	208.9	211.6	216.6	225.8	240.4	268.8
60°	195.5	193.9	191.8	191.2	191.2	192.2	193.5	197.2	205.8	218.8	242.1
62.5°	180.0	178.1	176.9	175.1	174.6	175.7	177.0	179.6	185.8	198.0	218.1
65°	156.2	153.8	152.2	151.9	151.2	150.2	150.9	153.6	158.5	168.2	184.1
67.5°	132.2	130.1	129.7	127.8	126.8	127.0	126.8	129.1	132.1	140.4	152.3
70°	116.5	114.9	114.2	112.5	111.9	111.2	110.6	112.5	115.6	122.5	132.9
72.5°	100.6	99.2	97.7	96.3	96.5	95.8	95.7	96.8	99.3	105.8	113.7
75°	77.6	77.9	76.2	74.6	74.3	73.6	73.6	74.6	75.6	80.6	86.9
77.5°	56.3	56.0	54.6	54.0	53.8	53.1	53.8	54.4	54.9	58.3	63.0
80°	43.0	43.0	41.3	41.3	40.9	39.9	40.9	40.3	41.6	44.9	48.3
82.5°	30.7	30.1	30.1	29.6	29.5	28.8	29.2	29.9	30.4	32.7	34.7
85°	15.0	15.0	14.6	14.4	14.6	14.4	14.6	15.0	15.3	16.3	18.0
87.5°	10.3	10.7	10.0	9.2	8.2	7.5	7.0	6.7	6.6	6.3	6.1
90°	35.8	36.3	31.2	26.1	21.0	16.0	12.1	9.4	6.6	3.8	1.1
92.5°	33.0	32.9	31.7	30.6	29.3	28.2	26.6	24.5	22.5	20.4	18.5
95°	66.3	66.3	65.8	65.4	64.9	64.5	63.0	60.7	58.5	56.2	53.9
97.5°	111.5	111.5	110.6	109.7	108.8	108.0	106.5	104.5	102.5	100.4	98.4
100°	142.9	142.9	142.2	141.5	140.9	140.2	138.9	137.1	135.3	133.4	131.5
102.5°	177.1	176.9	176.0	175.1	174.3	173.4	172.3	170.8	169.3	167.8	166.4
105°	228.4	227.8	227.4	226.9	226.5	226.0	225.4	224.8	224.1	223.4	222.7
107.5°	284.2	284.0	284.0	284.0	284.0	284.0	283.5	282.5	281.5	280.4	279.5
110°	322.2	322.2	322.2	322.2	322.2	322.2	321.5	320.0	318.7	317.3	315.9



TEST NUMBER: P331322-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	360.5	361.1	361.2	361.4	361.6	361.9	361.2	359.8	358.5	357.0	355.7
115°	418.2	418.5	418.9	419.4	419.8	420.3	419.8	418.5	417.1	415.7	414.3
117.5°	474.7	475.2	476.5	477.8	479.1	480.4	480.1	478.2	476.4	474.6	472.7
120°	511.7	511.7	513.5	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7
122.5°	550.9	551.4	552.8	554.0	555.4	556.6	556.2	553.9	551.7	549.6	547.3
125°	608.3	609.0	609.8	610.5	611.1	611.8	611.1	609.0	607.0	604.9	602.8
127.5°	664.1	664.9	665.8	666.6	667.4	668.3	667.4	664.8	662.2	659.5	656.9
130°	701.8	702.3	702.8	703.2	703.6	704.1	702.8	699.8	696.9	693.8	690.9
132.5°	739.4	740.4	740.3	740.2	740.1	740.0	738.8	736.3	733.9	731.5	729.0
135°	793.2	793.4	793.0	792.5	792.0	791.6	790.1	787.6	785.1	782.5	780.0
137.5°	845.4	845.6	845.0	844.5	843.8	843.2	841.9	839.8	837.8	835.7	833.6
140°	880.4	880.4	879.3	878.2	877.0	875.8	874.2	872.2	870.0	868.0	865.9
142.5°	912.1	912.0	911.2	910.3	909.5	908.7	907.3	905.3	903.2	901.2	899.1
145°	960.4	960.2	958.8	957.4	956.0	954.7	953.1	951.5	949.9	948.3	946.7
147.5°	1002.6	1002.0	1001.1	1000.2	999.3	998.4	996.9	995.0	993.0	991.1	989.2
150°	1029.2	1028.6	1027.6	1026.7	1025.8	1024.8	1023.7	1022.3	1020.9	1019.6	1018.2
152.5°	1056.0	1055.1	1054.0	1052.8	1051.8	1050.6	1049.4	1048.0	1046.6	1045.3	1043.8
155°	1089.8	1088.6	1088.0	1087.3	1086.5	1085.8	1085.2	1084.5	1083.8	1083.1	1082.4
157.5°	1120.9	1119.3	1118.8	1118.5	1118.0	1117.6	1117.2	1116.7	1116.2	1115.8	1115.4
160°	1139.7	1138.4	1138.1	1137.9	1137.6	1137.4	1137.1	1136.6	1136.1	1135.7	1135.2
162.5°	1156.5	1154.9	1154.7	1154.4	1154.2	1154.0	1153.9	1153.7	1153.6	1153.5	1153.4
165°	1178.3	1176.7	1176.7	1176.7	1176.7	1176.7	1176.8	1177.0	1177.2	1177.5	1177.7
167.5°	1196.3	1194.7	1194.7	1194.8	1194.8	1194.9	1195.2	1196.0	1196.6	1197.3	1198.0
170°	1206.2	1204.6	1204.9	1205.1	1205.3	1205.6	1206.0	1206.7	1207.4	1208.1	1208.8
172.5°	1213.7	1212.1	1212.3	1212.5	1212.8	1213.0	1213.4	1214.2	1214.9	1215.6	1216.2
175°	1221.8	1220.1	1220.7	1221.1	1221.6	1222.0	1222.6	1223.2	1224.0	1224.7	1225.4
177.5°	1226.0	1224.9	1225.3	1225.7	1226.0	1226.4	1226.9	1227.4	1228.0	1228.5	1229.0
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



TEST NUMBER: P331322-940

CATALOG NUMBER: SA2XXDIP-C485D1080U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	871.0	872.4	876.6	880.9	885.6	887.0	889.1	887.3	886.7	891.8	895.5
5°	873.5	879.5	891.2	901.8	910.8	917.1	923.8	926.5	931.5	938.4	947.1
7.5°	870.7	882.3	900.7	916.2	933.1	945.3	954.8	963.0	972.8	986.1	1000.5
10°	867.5	883.2	905.4	924.4	945.1	960.7	973.7	986.4	1001.0	1019.4	1038.3
12.5°	861.7	880.2	908.1	930.6	957.1	972.5	990.0	1017.3	1033.0	1058.5	1085.2
15°	849.9	870.5	909.5	937.1	967.1	996.4	1028.7	1054.6	1080.7	1095.6	1133.3
17.5°	832.3	862.6	905.8	938.1	976.2	1022.3	1058.5	1088.1	1118.0	1142.3	1161.2
20°	818.2	851.2	900.4	939.1	984.4	1034.0	1075.7	1105.6	1131.6	1151.9	1163.6
22.5°	800.4	841.9	889.8	935.1	992.9	1042.1	1085.7	1109.4	1131.0	1140.9	1145.4
25°	772.2	822.2	876.5	931.7	997.0	1049.0	1089.0	1103.3	1109.6	1099.9	1084.0
27.5°	742.0	797.6	861.1	925.5	994.5	1044.5	1073.1	1070.9	1060.2	1028.9	1003.9
30°	719.3	780.6	848.8	919.1	988.4	1037.0	1053.6	1037.0	1012.7	977.8	942.1
32.5°	695.6	759.0	835.8	910.1	977.2	1019.9	1023.6	994.9	957.3	917.6	873.1
35°	659.7	728.3	811.2	889.8	953.4	980.4	964.4	913.8	869.2	814.9	754.3
37.5°	619.1	694.9	778.0	860.1	917.8	924.9	885.2	831.9	768.9	705.2	633.8
40°	588.8	669.1	754.7	837.5	888.5	881.2	830.5	772.0	697.0	619.1	552.8
42.5°	561.6	641.9	729.1	810.4	851.2	831.1	772.0	700.0	619.5	546.1	485.4
45°	514.5	597.1	686.3	764.9	788.3	752.0	673.7	593.8	514.5	453.3	405.3
47.5°	468.9	550.5	638.8	707.9	716.2	667.4	581.8	499.6	431.5	381.6	347.8
50°	435.2	517.2	604.8	666.4	663.7	604.8	516.8	438.5	381.7	341.3	318.7
52.5°	405.1	482.5	566.7	622.7	608.6	544.3	460.4	390.9	344.1	312.5	292.0
55°	358.3	429.9	509.9	554.8	528.9	457.5	386.6	330.6	296.0	272.4	256.5
57.5°	311.8	379.0	447.4	475.1	446.4	380.6	321.5	280.9	254.9	237.3	226.9
60°	283.0	341.7	402.6	426.6	392.3	333.7	287.0	250.7	229.8	215.4	206.2
62.5°	254.3	306.7	364.3	377.3	345.9	296.4	255.1	224.9	207.7	194.9	186.2
65°	215.2	258.1	301.8	310.4	281.4	243.1	210.4	190.8	175.5	166.2	159.2
67.5°	176.5	210.9	241.8	248.8	223.5	196.9	173.3	156.2	145.8	138.0	132.2
70°	153.6	180.8	206.2	211.8	191.5	167.8	149.9	136.2	126.9	120.2	114.6
72.5°	129.3	152.0	173.1	176.9	160.3	142.2	127.5	116.7	108.5	104.2	98.8
75°	98.9	112.3	128.6	129.6	118.6	107.5	96.2	89.3	84.9	79.6	77.0
77.5°	69.8	80.3	89.6	91.4	84.9	77.4	71.1	65.5	61.9	59.4	57.0
80°	53.3	61.6	65.6	67.9	63.3	58.0	54.3	50.6	48.3	46.6	44.9
82.5°	38.1	43.2	47.0	48.8	46.2	43.1	39.3	37.3	35.5	34.1	33.5
85°	19.4	21.7	24.0	24.6	24.0	22.6	20.7	20.7	19.6	19.4	19.4
87.5°	7.4	9.0	9.6	11.0	11.2	12.2	13.2	14.0	14.7	14.4	14.0
90°	3.8	6.6	9.4	12.1	16.0	21.0	26.1	31.2	36.3	35.8	35.3
92.5°	20.4	22.5	24.5	26.6	28.2	29.3	30.6	31.7	32.9	33.0	33.1
95°	56.2	58.5	60.7	63.0	64.5	64.9	65.4	65.8	66.3	66.3	66.3
97.5°	100.4	102.5	104.5	106.5	108.0	108.8	109.7	110.6	111.5	111.5	111.5
100°	133.4	135.3	137.1	138.9	140.2	140.9	141.5	142.2	142.9	142.9	142.9
102.5°	167.8	169.3	170.8	172.3	173.4	174.3	175.1	176.0	176.9	177.1	177.3
105°	223.4	224.1	224.8	225.4	226.0	226.5	226.9	227.4	227.8	228.4	228.8
107.5°	280.4	281.5	282.5	283.5	284.0	284.0	284.0	284.0	284.0	284.2	284.4
110°	317.3	318.7	320.0	321.5	322.2	322.2	322.2	322.2	322.2	322.2	322.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	357.0	358.5	359.8	361.2	361.9	361.6	361.4	361.2	361.1	360.5	360.0
115°	415.7	417.1	418.5	419.8	420.3	419.8	419.4	418.9	418.5	418.2	418.0
117.5°	474.6	476.4	478.2	480.1	480.4	479.1	477.8	476.5	475.2	474.7	474.1
120°	513.5	515.4	517.2	519.1	519.1	517.2	515.4	513.5	511.7	511.7	511.7
122.5°	549.6	551.7	553.9	556.2	556.6	555.4	554.0	552.8	551.4	550.9	550.4
125°	604.9	607.0	609.0	611.1	611.8	611.1	610.5	609.8	609.0	608.3	607.7
127.5°	659.5	662.2	664.8	667.4	668.3	667.4	666.6	665.8	664.9	664.1	663.3
130°	693.8	696.9	699.8	702.8	704.1	703.6	703.2	702.8	702.3	701.8	701.3
132.5°	731.5	733.9	736.3	738.8	740.0	740.1	740.2	740.3	740.4	739.4	738.3
135°	782.5	785.1	787.6	790.1	791.6	792.0	792.5	793.0	793.4	793.2	793.0
137.5°	835.7	837.8	839.8	841.9	843.2	843.8	844.5	845.0	845.6	845.4	845.3
140°	868.0	870.0	872.2	874.2	875.8	877.0	878.2	879.3	880.4	880.4	880.4
142.5°	901.2	903.2	905.3	907.3	908.7	909.5	910.3	911.2	912.0	912.1	912.3
145°	948.3	949.9	951.5	953.1	954.7	956.0	957.4	958.8	960.2	960.4	960.6
147.5°	991.1	993.0	995.0	996.9	998.4	999.3	1000.2	1001.1	1002.0	1002.6	1003.1
150°	1019.6	1020.9	1022.3	1023.7	1024.8	1025.8	1026.7	1027.6	1028.6	1029.2	1029.9
152.5°	1045.3	1046.6	1048.0	1049.4	1050.6	1051.8	1052.8	1054.0	1055.1	1056.0	1056.9
155°	1083.1	1083.8	1084.5	1085.2	1085.8	1086.5	1087.3	1088.0	1088.6	1089.8	1090.9
157.5°	1115.8	1116.2	1116.7	1117.2	1117.6	1118.0	1118.5	1118.8	1119.3	1120.9	1122.4
160°	1135.7	1136.1	1136.6	1137.1	1137.4	1137.6	1137.9	1138.1	1138.4	1139.7	1141.1
162.5°	1153.5	1153.6	1153.7	1153.9	1154.0	1154.2	1154.4	1154.7	1154.9	1156.5	1158.1
165°	1177.5	1177.2	1177.0	1176.8	1176.7	1176.7	1176.7	1176.7	1176.7	1178.3	1179.9
167.5°	1197.3	1196.6	1196.0	1195.2	1194.9	1194.8	1194.8	1194.7	1194.7	1196.3	1197.9
170°	1208.1	1207.4	1206.7	1206.0	1205.6	1205.3	1205.1	1204.9	1204.6	1206.2	1207.8
172.5°	1215.6	1214.9	1214.2	1213.4	1213.0	1212.8	1212.5	1212.3	1212.1	1213.7	1215.3
175°	1224.7	1224.0	1223.2	1222.6	1222.0	1221.6	1221.1	1220.7	1220.1	1221.8	1223.4
177.5°	1228.5	1228.0	1227.4	1226.9	1226.4	1226.0	1225.7	1225.3	1224.9	1226.0	1227.2
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	898.8	902.5	902.5	903.0	907.2	906.8	906.5
5°	956.4	962.1	962.8	968.8	972.8	971.4	967.8
7.5°	1010.8	1021.4	1029.4	1033.8	1039.1	1042.3	1040.9
10°	1054.0	1069.3	1078.6	1084.9	1092.6	1098.3	1096.3
12.5°	1093.1	1111.4	1124.2	1135.1	1136.0	1143.4	1138.4
15°	1154.2	1173.6	1175.5	1183.6	1189.9	1189.2	1189.5
17.5°	1174.4	1180.6	1181.9	1182.1	1182.1	1179.8	1174.7
20°	1167.2	1164.9	1159.2	1154.9	1147.3	1146.2	1139.6
22.5°	1133.1	1125.7	1111.5	1102.2	1090.2	1087.1	1085.2
25°	1066.0	1049.6	1027.0	1005.4	999.3	987.7	991.0
27.5°	973.8	948.4	923.9	906.3	890.5	873.0	878.0
30°	909.1	880.5	845.9	819.2	802.3	785.6	782.6
32.5°	831.9	789.9	751.3	727.8	701.8	691.3	679.8
35°	698.7	657.7	619.4	586.5	567.5	552.8	539.5
37.5°	578.8	531.7	500.8	474.1	460.4	452.0	454.1
40°	504.5	463.2	440.6	420.3	407.6	401.6	403.0
42.5°	444.3	413.4	394.8	380.8	371.9	368.5	367.7
45°	375.9	358.6	343.3	335.4	331.0	327.3	325.0
47.5°	329.4	315.2	306.6	301.8	298.0	294.4	294.3
50°	301.4	292.0	286.1	281.1	278.0	275.4	277.8
52.5°	280.1	271.5	265.6	261.1	259.9	257.5	257.5
55°	248.4	241.7	237.5	233.4	231.5	230.2	228.5
57.5°	219.6	213.3	209.4	206.8	203.0	201.7	201.2
60°	199.1	194.1	190.1	186.8	185.1	182.5	182.5
62.5°	180.2	175.2	171.5	169.0	166.2	165.1	165.4
65°	152.8	148.8	145.2	142.5	141.9	139.9	140.5
67.5°	127.7	125.0	121.2	119.7	118.4	117.3	116.5
70°	110.9	108.3	106.2	104.2	103.3	103.3	103.3
72.5°	96.8	93.5	92.4	89.9	90.4	89.3	88.3
75°	74.9	72.9	72.0	70.9	69.3	69.3	69.3
77.5°	55.1	54.6	53.3	52.3	51.9	51.5	51.7
80°	42.6	42.3	41.6	41.6	40.9	40.7	39.9
82.5°	32.7	31.9	31.5	31.2	31.1	31.0	30.9
85°	18.6	18.0	18.0	18.3	17.7	17.7	18.0
87.5°	14.2	14.1	13.8	13.8	14.2	13.9	14.0
90°	34.9	34.4	34.3	34.5	34.8	35.0	35.2
92.5°	33.2	33.3	33.3	33.4	33.4	33.5	33.5
95°	66.3	66.3	66.1	65.6	65.2	64.6	64.2
97.5°	111.5	111.5	111.5	111.4	111.4	111.3	111.3
100°	142.9	142.9	142.9	142.6	142.4	142.1	141.9
102.5°	177.5	177.6	177.6	177.4	177.2	176.9	176.7
105°	229.3	229.7	230.0	230.0	230.0	230.0	230.0
107.5°	284.5	284.7	284.3	283.3	282.2	281.2	280.1
110°	322.2	322.2	321.8	321.1	320.4	319.7	319.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	359.4	358.9	358.4	357.8	357.3	356.9	356.3
115°	417.8	417.5	417.1	416.4	415.7	415.0	414.3
117.5°	473.6	473.1	472.4	471.7	471.0	470.3	469.7
120°	511.7	511.7	511.3	510.7	510.0	509.3	508.5
122.5°	549.8	549.2	548.8	548.2	547.7	547.2	546.7
125°	607.0	606.3	605.8	605.6	605.4	605.1	604.9
127.5°	662.5	661.6	660.8	660.1	659.4	658.7	657.9
130°	700.9	700.4	699.7	698.8	697.9	697.0	696.1
132.5°	737.4	736.4	735.5	734.8	734.0	733.3	732.5
135°	792.7	792.5	792.0	791.3	790.7	790.0	789.3
137.5°	845.1	844.9	844.4	843.4	842.5	841.6	840.6
140°	880.4	880.4	879.9	879.0	878.2	877.2	876.3
142.5°	912.5	912.7	912.3	911.3	910.4	909.5	908.6
145°	960.9	961.1	960.7	959.8	958.9	958.0	957.1
147.5°	1003.5	1004.1	1003.9	1003.0	1002.1	1001.2	1000.4
150°	1030.6	1031.4	1031.4	1030.6	1029.9	1029.2	1028.6
152.5°	1057.7	1058.5	1058.5	1057.7	1056.9	1056.0	1055.1
155°	1092.1	1093.2	1093.4	1092.8	1092.1	1091.4	1090.7
157.5°	1124.0	1125.5	1125.8	1124.6	1123.6	1122.5	1121.3
160°	1142.5	1143.9	1144.1	1143.2	1142.3	1141.3	1140.4
162.5°	1159.6	1161.2	1161.4	1160.3	1159.2	1158.1	1157.0
165°	1181.5	1183.1	1183.3	1182.2	1181.1	1179.9	1178.8
167.5°	1199.5	1201.1	1201.3	1200.2	1198.9	1197.7	1196.6
170°	1209.4	1211.0	1211.2	1209.8	1208.4	1207.0	1205.7
172.5°	1216.9	1218.5	1218.6	1217.3	1215.8	1214.5	1213.1
175°	1225.0	1226.6	1226.7	1225.4	1224.0	1222.6	1221.2
177.5°	1228.2	1229.3	1229.3	1228.2	1227.2	1226.0	1224.9
180°	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4

(END OF REPORT)