

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: P331312-940

Luminaire Tested: **SA2XXDIP-C485D925U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331312-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C485D925U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

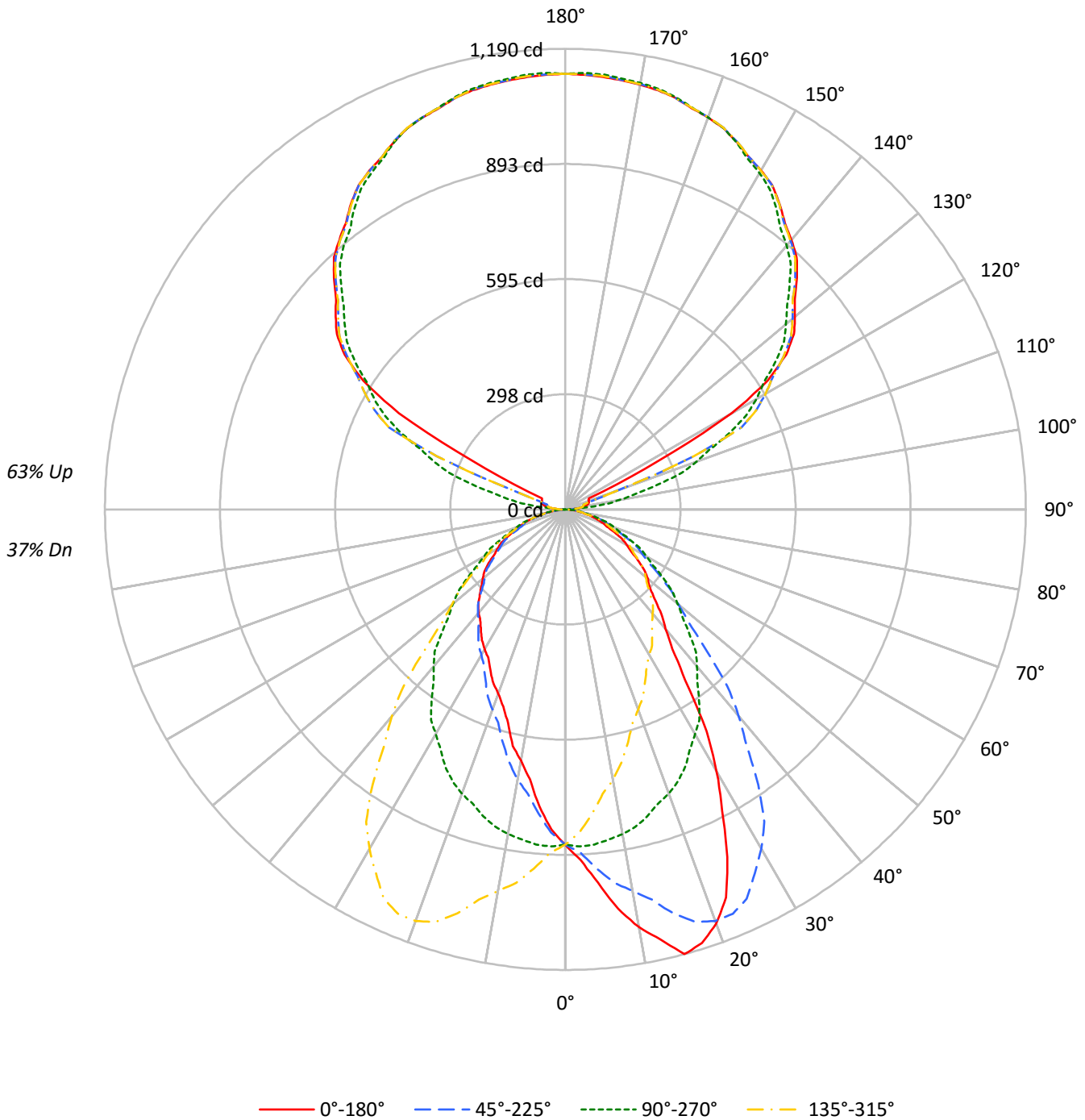
Lumens per Lamp: N/A
Luminaire Lumens: 5212.7 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331312-940
CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

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	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	39	38	38	32
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	32	27
3	79	70	64	58	72	64	58	53	52	48	45	41	39	36	31	29	28	23
4	73	63	55	49	66	57	51	46	47	42	38	37	34	31	28	26	24	20
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	62	50	42	37	56	46	39	34	38	33	29	30	27	24	23	21	19	16
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	21	19	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13
9	49	38	30	25	45	35	28	24	29	24	20	23	20	17	18	16	14	12
10	46	34	27	23	42	32	26	21	26	22	18	22	18	16	17	14	13	11

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



TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	1.6
10°-20°	239.9	4.6
20°-30°	348.2	6.7
30°-40°	367.4	7.0
40°-50°	325.3	6.2
50°-60°	259.6	5.0
60°-70°	176.5	3.4
70°-80°	90.5	1.7
80°-90°	24.6	0.5
90°-100°	37.5	0.7
100°-110°	137.7	2.6
110°-120°	368.0	7.1
120°-130°	607.5	11.7
130°-140°	646.1	12.4
140°-150°	600.5	11.5
150°-160°	482.8	9.3
160°-170°	311.1	6.0
170°-180°	107.1	2.1
0°-30°	670.6	12.9
0°-40°	1038.0	19.9
0°-60°	1623.0	31.1
0°-90°	1914.5	36.7
90°-120°	543.2	10.4
90°-150°	2397.3	46.0
90°-180°	3298.0	63.3
0°-180°	5212.7	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	20
90°	22	1	22	1	22	11
95°	35	53	35	53	35	33
105°	62	248	62	248	62	64
115°	67	468	67	468	67	167
125°	696	662	696	662	696	602
135°	846	819	846	819	846	652
145°	965	950	965	950	965	604
155°	1047	1046	1047	1046	1047	483
165°	1100	1103	1100	1103	1100	311
175°	1121	1128	1121	1128	1121	107
180°	1126	1126	1126	1126	1126	



TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

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°	11.3	11.2	11.4	11.1	11.1	11.1	11.0	10.5	10.6	10.7	10.7
90°	22.0	21.7	21.2	20.9	20.5	19.9	19.0	18.1	17.2	16.3	14.8
92.5°	22.0	21.8	21.6	21.3	21.1	20.8	20.3	19.8	19.4	18.9	18.2
95°	35.0	35.2	35.4	35.6	35.8	35.4	34.5	33.5	32.6	31.7	30.5
97.5°	46.7	46.5	46.3	46.1	45.8	45.4	44.7	44.0	43.2	42.5	39.6
100°	54.6	54.2	53.9	53.5	53.1	52.3	50.7	49.3	47.9	46.5	43.3
102.5°	58.5	58.0	57.4	57.0	56.4	55.3	53.4	51.5	49.6	47.7	43.5
105°	61.9	61.2	60.5	59.7	59.0	57.6	55.6	53.7	51.6	49.7	43.5
107.5°	63.7	63.0	62.2	61.5	60.8	61.4	63.5	65.5	67.5	69.6	128.8
110°	64.4	63.6	62.9	62.2	61.4	70.1	88.2	106.3	124.4	142.5	194.8



TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	65.0	64.4	63.8	63.2	62.7	95.4	161.4	227.5	293.5	359.4	372.4
115°	66.8	79.8	92.8	105.8	118.9	167.3	251.1	334.9	418.7	502.5	497.9
117.5°	272.7	315.5	358.3	401.1	443.9	475.5	495.8	516.0	536.3	556.5	553.5
120°	496.8	521.2	545.6	570.1	594.5	605.6	603.5	601.3	599.1	596.9	593.7
122.5°	619.9	624.6	629.4	634.2	638.9	640.6	639.3	638.0	636.7	635.4	631.9
125°	696.3	695.8	695.2	694.6	694.1	693.2	692.0	690.7	689.5	688.1	684.7
127.5°	744.5	744.4	744.3	744.2	744.0	743.2	741.3	739.4	737.5	735.8	733.2
130°	774.5	774.6	774.8	775.1	775.3	774.3	772.3	770.3	768.3	766.3	764.4
132.5°	803.8	804.0	804.1	804.3	804.5	803.8	802.1	800.4	798.7	796.9	795.0
135°	846.1	846.5	846.9	847.2	847.6	846.9	845.1	843.3	841.4	839.6	838.0
137.5°	884.8	885.4	886.0	886.6	887.3	886.6	884.8	883.1	881.3	879.6	877.7
140°	908.8	909.8	910.7	911.6	912.5	912.1	910.5	908.8	907.2	905.6	903.7
142.5°	932.3	933.3	934.2	935.0	935.9	935.7	934.2	932.6	931.2	929.7	927.5
145°	965.1	966.0	966.9	967.8	968.7	968.5	967.2	966.0	964.7	963.4	960.4
147.5°	993.9	994.6	995.4	996.1	996.9	996.8	995.9	995.0	994.0	993.1	990.1
150°	1011.5	1012.4	1013.3	1014.2	1015.1	1015.0	1014.0	1012.8	1011.7	1010.7	1007.8
152.5°	1026.4	1027.7	1028.9	1030.0	1031.3	1031.3	1030.2	1029.1	1028.1	1027.0	1024.2
155°	1047.3	1048.7	1050.2	1051.7	1053.1	1053.3	1052.2	1051.1	1050.0	1048.9	1046.8
157.5°	1066.4	1067.7	1069.2	1070.6	1072.0	1072.1	1070.9	1069.6	1068.4	1067.2	1065.7
160°	1077.5	1078.7	1080.0	1081.2	1082.5	1082.6	1081.6	1080.4	1079.3	1078.3	1077.2
162.5°	1086.5	1088.2	1089.7	1091.3	1092.8	1093.0	1091.7	1090.5	1089.2	1088.1	1087.1
165°	1100.3	1101.5	1102.8	1104.0	1105.3	1105.3	1104.0	1102.8	1101.5	1100.3	1099.7
167.5°	1108.8	1110.5	1112.1	1113.7	1115.4	1115.6	1114.3	1113.0	1111.8	1110.5	1110.0
170°	1114.1	1115.7	1117.3	1119.0	1120.6	1120.8	1119.5	1118.3	1117.0	1115.7	1115.4
172.5°	1118.0	1119.6	1121.2	1122.8	1124.5	1124.7	1123.5	1122.1	1120.9	1119.6	1119.3
175°	1121.4	1123.2	1125.1	1126.9	1128.6	1128.9	1127.7	1126.4	1125.2	1123.8	1123.5
177.5°	1123.6	1124.8	1126.1	1127.5	1128.7	1128.9	1127.9	1126.9	1125.9	1124.8	1124.7
180°	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5



TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

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°	10.7	10.3	10.1	10.3	9.1	8.6	7.2	6.1	6.2	6.3	6.2
90°	13.4	11.9	10.5	8.7	6.8	4.8	2.8	0.8	2.8	4.8	6.8
92.5°	17.5	16.8	16.0	15.7	15.9	16.1	16.2	16.4	16.2	16.1	15.9
95°	29.2	28.0	26.7	29.1	35.0	41.0	47.0	53.0	47.0	41.0	35.0
97.5°	36.6	33.7	30.8	37.7	54.6	71.4	88.2	105.0	88.2	71.4	54.6
100°	40.3	37.2	34.2	44.9	69.7	94.5	119.3	144.2	119.3	94.5	69.7
102.5°	99.2	124.9	150.7	166.1	171.4	176.6	181.9	187.2	181.9	176.6	171.4
105°	148.5	197.9	247.3	269.3	263.9	258.4	253.0	247.5	253.0	258.4	263.9
107.5°	188.1	247.3	306.6	334.0	329.6	325.2	320.8	316.5	320.8	325.2	329.6
110°	247.1	299.4	351.7	375.9	372.2	368.4	364.6	360.8	364.6	368.4	372.2



TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	385.3	398.2	411.2	415.9	412.6	409.2	405.8	402.4	405.8	409.2	412.6
115°	493.5	488.9	484.4	480.5	477.5	474.4	471.4	468.2	471.4	474.4	477.5
117.5°	550.4	547.2	544.1	540.8	537.4	534.0	530.5	527.1	530.5	534.0	537.4
120°	590.4	587.2	583.9	580.9	578.2	575.5	572.7	570.1	572.7	575.5	578.2
122.5°	628.3	624.7	621.2	618.0	615.1	612.2	609.4	606.5	609.4	612.2	615.1
125°	681.3	677.9	674.4	671.5	669.1	666.8	664.4	662.1	664.4	666.8	669.1
127.5°	730.6	728.0	725.4	722.8	720.2	717.6	715.1	712.4	715.1	717.6	720.2
130°	762.3	760.4	758.4	755.9	753.0	750.1	747.3	744.4	747.3	750.1	753.0
132.5°	793.0	791.0	789.0	786.8	784.3	781.9	779.4	776.9	779.4	781.9	784.3
135°	836.4	834.7	833.1	830.9	828.0	825.1	822.2	819.3	822.2	825.1	828.0
137.5°	875.8	874.0	872.2	870.2	868.2	866.2	864.2	862.1	864.2	866.2	868.2
140°	901.6	899.6	897.7	895.9	894.5	893.0	891.6	890.1	891.6	893.0	894.5
142.5°	925.1	922.8	920.6	918.8	917.5	916.2	914.9	913.6	914.9	916.2	917.5
145°	957.3	954.2	951.1	949.7	949.9	950.0	950.2	950.4	950.2	950.0	949.9
147.5°	987.0	983.9	980.9	979.7	980.4	981.1	981.8	982.5	981.8	981.1	980.4
150°	1004.9	1002.0	999.1	998.3	999.5	1000.8	1002.1	1003.4	1002.1	1000.8	999.5
152.5°	1021.5	1018.7	1015.9	1015.3	1016.7	1018.1	1019.5	1020.9	1019.5	1018.1	1016.7
155°	1044.6	1042.4	1040.3	1040.0	1041.6	1043.2	1044.9	1046.5	1044.9	1043.2	1041.6
157.5°	1064.2	1062.7	1061.1	1061.0	1062.4	1063.8	1065.1	1066.5	1065.1	1063.8	1062.4
160°	1076.1	1075.0	1073.9	1073.9	1075.0	1076.1	1077.2	1078.3	1077.2	1076.1	1075.0
162.5°	1086.1	1085.2	1084.2	1084.3	1085.4	1086.5	1087.6	1088.7	1087.6	1086.5	1085.4
165°	1099.1	1098.6	1098.1	1098.3	1099.4	1100.5	1101.6	1102.7	1101.6	1100.5	1099.4
167.5°	1109.5	1109.0	1108.5	1108.8	1109.8	1111.0	1112.1	1113.1	1112.1	1111.0	1109.8
170°	1115.0	1114.6	1114.3	1114.6	1115.7	1116.8	1117.8	1119.0	1117.8	1116.8	1115.7
172.5°	1118.9	1118.6	1118.2	1118.6	1119.6	1120.7	1121.8	1122.8	1121.8	1120.7	1119.6
175°	1123.1	1122.8	1122.4	1122.8	1124.1	1125.4	1126.7	1127.9	1126.7	1125.4	1124.1
177.5°	1124.5	1124.4	1124.3	1124.7	1125.7	1126.8	1127.7	1128.7	1127.7	1126.8	1125.7
180°	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5



TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

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°	6.2	6.3	6.4	6.7	6.7	6.7	6.6	6.8	7.0	6.7	6.8
90°	8.7	10.5	11.9	13.4	14.8	16.3	17.2	18.1	19.0	19.9	20.5
92.5°	15.7	16.0	16.8	17.5	18.2	18.9	19.4	19.8	20.3	20.8	21.1
95°	29.1	26.7	28.0	29.2	30.5	31.7	32.6	33.5	34.5	35.4	35.8
97.5°	37.7	30.8	33.7	36.6	39.6	42.5	43.2	44.0	44.7	45.4	45.8
100°	44.9	34.2	37.2	40.3	43.3	46.5	47.9	49.3	50.7	52.3	53.1
102.5°	166.1	150.7	124.9	99.2	73.5	47.7	49.6	51.5	53.4	55.3	56.4
105°	269.3	247.3	197.9	148.5	99.1	49.7	51.6	53.7	55.6	57.6	59.0
107.5°	334.0	306.6	247.3	188.1	128.8	69.6	67.5	65.5	63.5	61.4	60.8
110°	375.9	351.7	299.4	247.1	194.8	142.5	124.4	106.3	88.2	70.1	61.4



TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	415.9	411.2	398.2	385.3	372.4	359.4	293.5	227.5	161.4	95.4	62.7
115°	480.5	484.4	488.9	493.5	497.9	502.5	418.7	334.9	251.1	167.3	118.9
117.5°	540.8	544.1	547.2	550.4	553.5	556.5	536.3	516.0	495.8	475.5	443.9
120°	580.9	583.9	587.2	590.4	593.7	596.9	599.1	601.3	603.5	605.6	594.5
122.5°	618.0	621.2	624.7	628.3	631.9	635.4	636.7	638.0	639.3	640.6	638.9
125°	671.5	674.4	677.9	681.3	684.7	688.1	689.5	690.7	692.0	693.2	694.1
127.5°	722.8	725.4	728.0	730.6	733.2	735.8	737.5	739.4	741.3	743.2	744.0
130°	755.9	758.4	760.4	762.3	764.4	766.3	768.3	770.3	772.3	774.3	775.3
132.5°	786.8	789.0	791.0	793.0	795.0	796.9	798.7	800.4	802.1	803.8	804.5
135°	830.9	833.1	834.7	836.4	838.0	839.6	841.4	843.3	845.1	846.9	847.6
137.5°	870.2	872.2	874.0	875.8	877.7	879.6	881.3	883.1	884.8	886.6	887.3
140°	895.9	897.7	899.6	901.6	903.7	905.6	907.2	908.8	910.5	912.1	912.5
142.5°	918.8	920.6	922.8	925.1	927.5	929.7	931.2	932.6	934.2	935.7	935.9
145°	949.7	951.1	954.2	957.3	960.4	963.4	964.7	966.0	967.2	968.5	968.7
147.5°	979.7	980.9	983.9	987.0	990.1	993.1	994.0	995.0	995.9	996.8	996.9
150°	998.3	999.1	1002.0	1004.9	1007.8	1010.7	1011.7	1012.8	1014.0	1015.0	1015.1
152.5°	1015.3	1015.9	1018.7	1021.5	1024.2	1027.0	1028.1	1029.1	1030.2	1031.3	1031.3
155°	1040.0	1040.3	1042.4	1044.6	1046.8	1048.9	1050.0	1051.1	1052.2	1053.3	1053.1
157.5°	1061.0	1061.1	1062.7	1064.2	1065.7	1067.2	1068.4	1069.6	1070.9	1072.1	1072.0
160°	1073.9	1073.9	1075.0	1076.1	1077.2	1078.3	1079.3	1080.4	1081.6	1082.6	1082.5
162.5°	1084.3	1084.2	1085.2	1086.1	1087.1	1088.1	1089.2	1090.5	1091.7	1093.0	1092.8
165°	1098.3	1098.1	1098.6	1099.1	1099.7	1100.3	1101.5	1102.8	1104.0	1105.3	1105.3
167.5°	1108.8	1108.5	1109.0	1109.5	1110.0	1110.5	1111.8	1113.0	1114.3	1115.6	1115.4
170°	1114.6	1114.3	1114.6	1115.0	1115.4	1115.7	1117.0	1118.3	1119.5	1120.8	1120.6
172.5°	1118.6	1118.2	1118.6	1118.9	1119.3	1119.6	1120.9	1122.1	1123.5	1124.7	1124.5
175°	1122.8	1122.4	1122.8	1123.1	1123.5	1123.8	1125.2	1126.4	1127.7	1128.9	1128.6
177.5°	1124.7	1124.3	1124.4	1124.5	1124.7	1124.8	1125.9	1126.9	1127.9	1128.9	1128.7
180°	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5



TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

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°	6.9	6.7	6.7	6.5	6.7	6.7	6.9	6.8	6.7	7.0	6.8
90°	20.9	21.2	21.7	22.0	21.7	21.2	20.9	20.5	19.9	19.0	18.1
92.5°	21.3	21.6	21.8	22.0	21.8	21.6	21.3	21.1	20.8	20.3	19.8
95°	35.6	35.4	35.2	35.0	35.2	35.4	35.6	35.8	35.4	34.5	33.5
97.5°	46.1	46.3	46.5	46.7	46.5	46.3	46.1	45.8	45.4	44.7	44.0
100°	53.5	53.9	54.2	54.6	54.2	53.9	53.5	53.1	52.3	50.7	49.3
102.5°	57.0	57.4	58.0	58.5	58.0	57.4	57.0	56.4	55.3	53.4	51.5
105°	59.7	60.5	61.2	61.9	61.2	60.5	59.7	59.0	57.6	55.6	53.7
107.5°	61.5	62.2	63.0	63.7	63.0	62.2	61.5	60.8	61.4	63.5	65.5
110°	62.2	62.9	63.6	64.4	63.6	62.9	62.2	61.4	70.1	88.2	106.3



TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	63.2	63.8	64.4	65.0	64.4	63.8	63.2	62.7	95.4	161.4	227.5
115°	105.8	92.8	79.8	66.8	79.8	92.8	105.8	118.9	167.3	251.1	334.9
117.5°	401.1	358.3	315.5	272.7	315.5	358.3	401.1	443.9	475.5	495.8	516.0
120°	570.1	545.6	521.2	496.8	521.2	545.6	570.1	594.5	605.6	603.5	601.3
122.5°	634.2	629.4	624.6	619.9	624.6	629.4	634.2	638.9	640.6	639.3	638.0
125°	694.6	695.2	695.8	696.3	695.8	695.2	694.6	694.1	693.2	692.0	690.7
127.5°	744.2	744.3	744.4	744.5	744.4	744.3	744.2	744.0	743.2	741.3	739.4
130°	775.1	774.8	774.6	774.5	774.6	774.8	775.1	775.3	774.3	772.3	770.3
132.5°	804.3	804.1	804.0	803.8	804.0	804.1	804.3	804.5	803.8	802.1	800.4
135°	847.2	846.9	846.5	846.1	846.5	846.9	847.2	847.6	846.9	845.1	843.3
137.5°	886.6	886.0	885.4	884.8	885.4	886.0	886.6	887.3	886.6	884.8	883.1
140°	911.6	910.7	909.8	908.8	909.8	910.7	911.6	912.5	912.1	910.5	908.8
142.5°	935.0	934.2	933.3	932.3	933.3	934.2	935.0	935.9	935.7	934.2	932.6
145°	967.8	966.9	966.0	965.1	966.0	966.9	967.8	968.7	968.5	967.2	966.0
147.5°	996.1	995.4	994.6	993.9	994.6	995.4	996.1	996.9	996.8	995.9	995.0
150°	1014.2	1013.3	1012.4	1011.5	1012.4	1013.3	1014.2	1015.1	1015.0	1014.0	1012.8
152.5°	1030.0	1028.9	1027.7	1026.4	1027.7	1028.9	1030.0	1031.3	1031.3	1030.2	1029.1
155°	1051.7	1050.2	1048.7	1047.3	1048.7	1050.2	1051.7	1053.1	1053.3	1052.2	1051.1
157.5°	1070.6	1069.2	1067.7	1066.4	1067.7	1069.2	1070.6	1072.0	1072.1	1070.9	1069.6
160°	1081.2	1080.0	1078.7	1077.5	1078.7	1080.0	1081.2	1082.5	1082.6	1081.6	1080.4
162.5°	1091.3	1089.7	1088.2	1086.5	1088.2	1089.7	1091.3	1092.8	1093.0	1091.7	1090.5
165°	1104.0	1102.8	1101.5	1100.3	1101.5	1102.8	1104.0	1105.3	1105.3	1104.0	1102.8
167.5°	1113.7	1112.1	1110.5	1108.8	1110.5	1112.1	1113.7	1115.4	1115.6	1114.3	1113.0
170°	1119.0	1117.3	1115.7	1114.1	1115.7	1117.3	1119.0	1120.6	1120.8	1119.5	1118.3
172.5°	1122.8	1121.2	1119.6	1118.0	1119.6	1121.2	1122.8	1124.5	1124.7	1123.5	1122.1
175°	1126.9	1125.1	1123.2	1121.4	1123.2	1125.1	1126.9	1128.6	1128.9	1127.7	1126.4
177.5°	1127.5	1126.1	1124.8	1123.6	1124.8	1126.1	1127.5	1128.7	1128.9	1127.9	1126.9
180°	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5



TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

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°	6.6	6.7	6.7	6.7	6.4	6.3	6.2	6.2	6.3	6.2	6.1
90°	17.2	16.3	14.8	13.4	11.9	10.5	8.7	6.8	4.8	2.8	0.8
92.5°	19.4	18.9	18.2	17.5	16.8	16.0	15.7	15.9	16.1	16.2	16.4
95°	32.6	31.7	30.5	29.2	28.0	26.7	29.1	35.0	41.0	47.0	53.0
97.5°	43.2	42.5	39.6	36.6	33.7	30.8	37.7	54.6	71.4	88.2	105.0
100°	47.9	46.5	43.3	40.3	37.2	34.2	44.9	69.7	94.5	119.3	144.2
102.5°	49.6	47.7	73.5	99.2	124.9	150.7	166.1	171.4	176.6	181.9	187.2
105°	51.6	49.7	99.1	148.5	197.9	247.3	269.3	263.9	258.4	253.0	247.5
107.5°	67.5	69.6	128.8	188.1	247.3	306.6	334.0	329.6	325.2	320.8	316.5
110°	124.4	142.5	194.8	247.1	299.4	351.7	375.9	372.2	368.4	364.6	360.8



TEST NUMBER: P331312-940

CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	293.5	359.4	372.4	385.3	398.2	411.2	415.9	412.6	409.2	405.8	402.4
115°	418.7	502.5	497.9	493.5	488.9	484.4	480.5	477.5	474.4	471.4	468.2
117.5°	536.3	556.5	553.5	550.4	547.2	544.1	540.8	537.4	534.0	530.5	527.1
120°	599.1	596.9	593.7	590.4	587.2	583.9	580.9	578.2	575.5	572.7	570.1
122.5°	636.7	635.4	631.9	628.3	624.7	621.2	618.0	615.1	612.2	609.4	606.5
125°	689.5	688.1	684.7	681.3	677.9	674.4	671.5	669.1	666.8	664.4	662.1
127.5°	737.5	735.8	733.2	730.6	728.0	725.4	722.8	720.2	717.6	715.1	712.4
130°	768.3	766.3	764.4	762.3	760.4	758.4	755.9	753.0	750.1	747.3	744.4
132.5°	798.7	796.9	795.0	793.0	791.0	789.0	786.8	784.3	781.9	779.4	776.9
135°	841.4	839.6	838.0	836.4	834.7	833.1	830.9	828.0	825.1	822.2	819.3
137.5°	881.3	879.6	877.7	875.8	874.0	872.2	870.2	868.2	866.2	864.2	862.1
140°	907.2	905.6	903.7	901.6	899.6	897.7	895.9	894.5	893.0	891.6	890.1
142.5°	931.2	929.7	927.5	925.1	922.8	920.6	918.8	917.5	916.2	914.9	913.6
145°	964.7	963.4	960.4	957.3	954.2	951.1	949.7	949.9	950.0	950.2	950.4
147.5°	994.0	993.1	990.1	987.0	983.9	980.9	979.7	980.4	981.1	981.8	982.5
150°	1011.7	1010.7	1007.8	1004.9	1002.0	999.1	998.3	999.5	1000.8	1002.1	1003.4
152.5°	1028.1	1027.0	1024.2	1021.5	1018.7	1015.9	1015.3	1016.7	1018.1	1019.5	1020.9
155°	1050.0	1048.9	1046.8	1044.6	1042.4	1040.3	1040.0	1041.6	1043.2	1044.9	1046.5
157.5°	1068.4	1067.2	1065.7	1064.2	1062.7	1061.1	1061.0	1062.4	1063.8	1065.1	1066.5
160°	1079.3	1078.3	1077.2	1076.1	1075.0	1073.9	1073.9	1075.0	1076.1	1077.2	1078.3
162.5°	1089.2	1088.1	1087.1	1086.1	1085.2	1084.2	1084.3	1085.4	1086.5	1087.6	1088.7
165°	1101.5	1100.3	1099.7	1099.1	1098.6	1098.1	1098.3	1099.4	1100.5	1101.6	1102.7
167.5°	1111.8	1110.5	1110.0	1109.5	1109.0	1108.5	1108.8	1109.8	1111.0	1112.1	1113.1
170°	1117.0	1115.7	1115.4	1115.0	1114.6	1114.3	1114.6	1115.7	1116.8	1117.8	1119.0
172.5°	1120.9	1119.6	1119.3	1118.9	1118.6	1118.2	1118.6	1119.6	1120.7	1121.8	1122.8
175°	1125.2	1123.8	1123.5	1123.1	1122.8	1122.4	1122.8	1124.1	1125.4	1126.7	1127.9
177.5°	1125.9	1124.8	1124.7	1124.5	1124.4	1124.3	1124.7	1125.7	1126.8	1127.7	1128.7
180°	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5



TEST NUMBER: P331312-940
 CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

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°	7.2	8.6	9.1	10.3	10.1	10.3	10.7	10.7	10.7	10.6	10.5
90°	2.8	4.8	6.8	8.7	10.5	11.9	13.4	14.8	16.3	17.2	18.1
92.5°	16.2	16.1	15.9	15.7	16.0	16.8	17.5	18.2	18.9	19.4	19.8
95°	47.0	41.0	35.0	29.1	26.7	28.0	29.2	30.5	31.7	32.6	33.5
97.5°	88.2	71.4	54.6	37.7	30.8	33.7	36.6	39.6	42.5	43.2	44.0
100°	119.3	94.5	69.7	44.9	34.2	37.2	40.3	43.3	46.5	47.9	49.3
102.5°	181.9	176.6	171.4	166.1	150.7	124.9	99.2	73.5	47.7	49.6	51.5
105°	253.0	258.4	263.9	269.3	247.3	197.9	148.5	99.1	49.7	51.6	53.7
107.5°	320.8	325.2	329.6	334.0	306.6	247.3	188.1	128.8	69.6	67.5	65.5
110°	364.6	368.4	372.2	375.9	351.7	299.4	247.1	194.8	142.5	124.4	106.3



TEST NUMBER: P331312-940
 CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	405.8	409.2	412.6	415.9	411.2	398.2	385.3	372.4	359.4	293.5	227.5
115°	471.4	474.4	477.5	480.5	484.4	488.9	493.5	497.9	502.5	418.7	334.9
117.5°	530.5	534.0	537.4	540.8	544.1	547.2	550.4	553.5	556.5	536.3	516.0
120°	572.7	575.5	578.2	580.9	583.9	587.2	590.4	593.7	596.9	599.1	601.3
122.5°	609.4	612.2	615.1	618.0	621.2	624.7	628.3	631.9	635.4	636.7	638.0
125°	664.4	666.8	669.1	671.5	674.4	677.9	681.3	684.7	688.1	689.5	690.7
127.5°	715.1	717.6	720.2	722.8	725.4	728.0	730.6	733.2	735.8	737.5	739.4
130°	747.3	750.1	753.0	755.9	758.4	760.4	762.3	764.4	766.3	768.3	770.3
132.5°	779.4	781.9	784.3	786.8	789.0	791.0	793.0	795.0	796.9	798.7	800.4
135°	822.2	825.1	828.0	830.9	833.1	834.7	836.4	838.0	839.6	841.4	843.3
137.5°	864.2	866.2	868.2	870.2	872.2	874.0	875.8	877.7	879.6	881.3	883.1
140°	891.6	893.0	894.5	895.9	897.7	899.6	901.6	903.7	905.6	907.2	908.8
142.5°	914.9	916.2	917.5	918.8	920.6	922.8	925.1	927.5	929.7	931.2	932.6
145°	950.2	950.0	949.9	949.7	951.1	954.2	957.3	960.4	963.4	964.7	966.0
147.5°	981.8	981.1	980.4	979.7	980.9	983.9	987.0	990.1	993.1	994.0	995.0
150°	1002.1	1000.8	999.5	998.3	999.1	1002.0	1004.9	1007.8	1010.7	1011.7	1012.8
152.5°	1019.5	1018.1	1016.7	1015.3	1015.9	1018.7	1021.5	1024.2	1027.0	1028.1	1029.1
155°	1044.9	1043.2	1041.6	1040.0	1040.3	1042.4	1044.6	1046.8	1048.9	1050.0	1051.1
157.5°	1065.1	1063.8	1062.4	1061.0	1061.1	1062.7	1064.2	1065.7	1067.2	1068.4	1069.6
160°	1077.2	1076.1	1075.0	1073.9	1073.9	1075.0	1076.1	1077.2	1078.3	1079.3	1080.4
162.5°	1087.6	1086.5	1085.4	1084.3	1084.2	1085.2	1086.1	1087.1	1088.1	1089.2	1090.5
165°	1101.6	1100.5	1099.4	1098.3	1098.1	1098.6	1099.1	1099.7	1100.3	1101.5	1102.8
167.5°	1112.1	1111.0	1109.8	1108.8	1108.5	1109.0	1109.5	1110.0	1110.5	1111.8	1113.0
170°	1117.8	1116.8	1115.7	1114.6	1114.3	1114.6	1115.0	1115.4	1115.7	1117.0	1118.3
172.5°	1121.8	1120.7	1119.6	1118.6	1118.2	1118.6	1118.9	1119.3	1119.6	1120.9	1122.1
175°	1126.7	1125.4	1124.1	1122.8	1122.4	1122.8	1123.1	1123.5	1123.8	1125.2	1126.4
177.5°	1127.7	1126.8	1125.7	1124.7	1124.3	1124.4	1124.5	1124.7	1124.8	1125.9	1126.9
180°	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5



TEST NUMBER: P331312-940
 CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

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°	11.0	11.1	11.1	11.1	11.4	11.2	11.3
90°	19.0	19.9	20.5	20.9	21.2	21.7	22.0
92.5°	20.3	20.8	21.1	21.3	21.6	21.8	22.0
95°	34.5	35.4	35.8	35.6	35.4	35.2	35.0
97.5°	44.7	45.4	45.8	46.1	46.3	46.5	46.7
100°	50.7	52.3	53.1	53.5	53.9	54.2	54.6
102.5°	53.4	55.3	56.4	57.0	57.4	58.0	58.5
105°	55.6	57.6	59.0	59.7	60.5	61.2	61.9
107.5°	63.5	61.4	60.8	61.5	62.2	63.0	63.7
110°	88.2	70.1	61.4	62.2	62.9	63.6	64.4



TEST NUMBER: P331312-940
 CATALOG NUMBER: SA2XXDIP-C485D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	161.4	95.4	62.7	63.2	63.8	64.4	65.0
115°	251.1	167.3	118.9	105.8	92.8	79.8	66.8
117.5°	495.8	475.5	443.9	401.1	358.3	315.5	272.7
120°	603.5	605.6	594.5	570.1	545.6	521.2	496.8
122.5°	639.3	640.6	638.9	634.2	629.4	624.6	619.9
125°	692.0	693.2	694.1	694.6	695.2	695.8	696.3
127.5°	741.3	743.2	744.0	744.2	744.3	744.4	744.5
130°	772.3	774.3	775.3	775.1	774.8	774.6	774.5
132.5°	802.1	803.8	804.5	804.3	804.1	804.0	803.8
135°	845.1	846.9	847.6	847.2	846.9	846.5	846.1
137.5°	884.8	886.6	887.3	886.6	886.0	885.4	884.8
140°	910.5	912.1	912.5	911.6	910.7	909.8	908.8
142.5°	934.2	935.7	935.9	935.0	934.2	933.3	932.3
145°	967.2	968.5	968.7	967.8	966.9	966.0	965.1
147.5°	995.9	996.8	996.9	996.1	995.4	994.6	993.9
150°	1014.0	1015.0	1015.1	1014.2	1013.3	1012.4	1011.5
152.5°	1030.2	1031.3	1031.3	1030.0	1028.9	1027.7	1026.4
155°	1052.2	1053.3	1053.1	1051.7	1050.2	1048.7	1047.3
157.5°	1070.9	1072.1	1072.0	1070.6	1069.2	1067.7	1066.4
160°	1081.6	1082.6	1082.5	1081.2	1080.0	1078.7	1077.5
162.5°	1091.7	1093.0	1092.8	1091.3	1089.7	1088.2	1086.5
165°	1104.0	1105.3	1105.3	1104.0	1102.8	1101.5	1100.3
167.5°	1114.3	1115.6	1115.4	1113.7	1112.1	1110.5	1108.8
170°	1119.5	1120.8	1120.6	1119.0	1117.3	1115.7	1114.1
172.5°	1123.5	1124.7	1124.5	1122.8	1121.2	1119.6	1118.0
175°	1127.7	1128.9	1128.6	1126.9	1125.1	1123.2	1121.4
177.5°	1127.9	1128.9	1128.7	1127.5	1126.1	1124.8	1123.6
180°	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5

(END OF REPORT)