

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: P331633-940

Luminaire Tested: **SA2XXRDIP-C290D925U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331633-940
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: SA2XXRDIP-C290D925U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4308.5 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

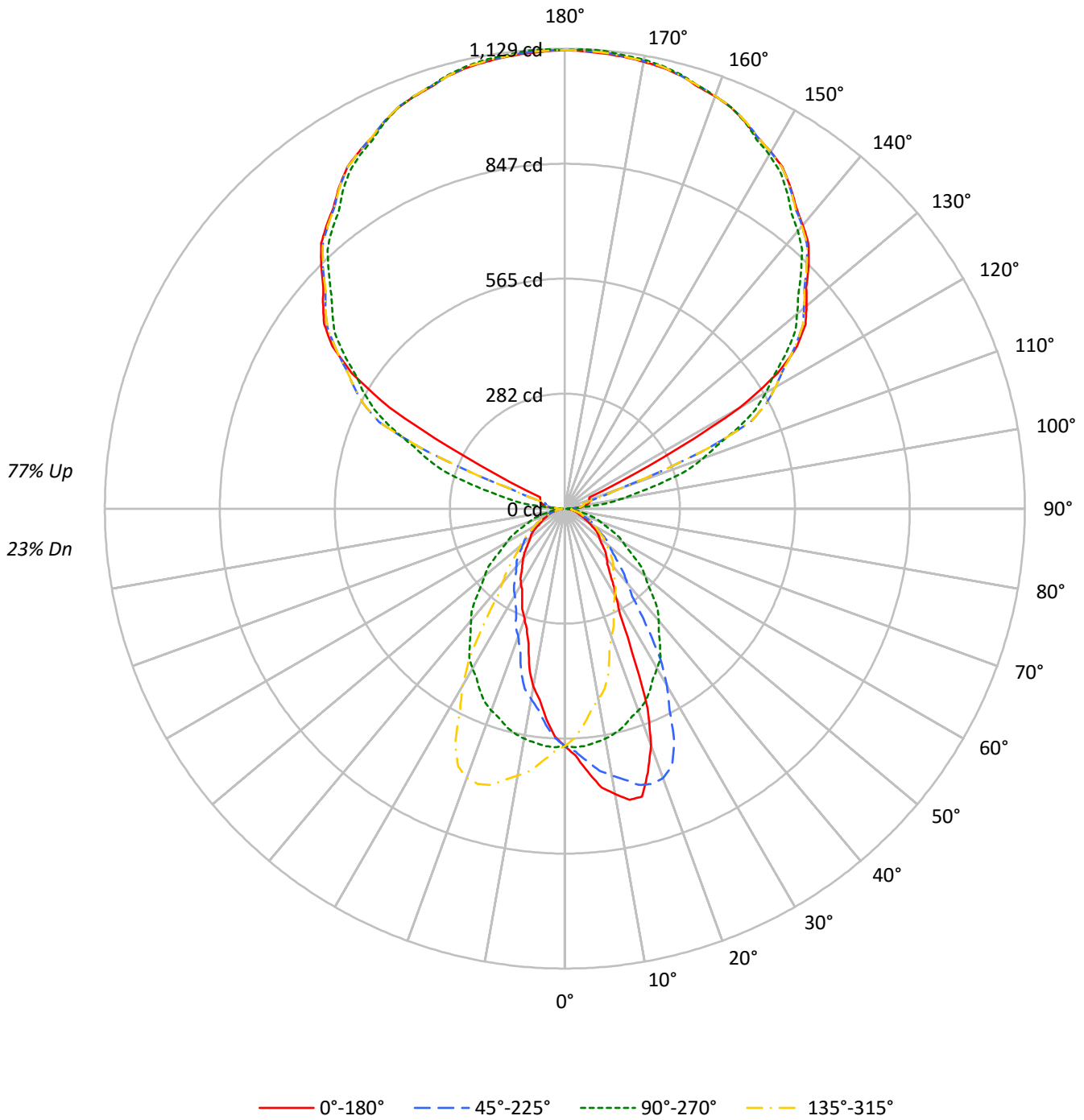
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23				
1	92	88	85	81	82	79	76	73	60	59	57	44	43	42	29	28	27	20				
2	84	77	72	67	75	69	64	60	53	50	48	39	37	35	26	25	24	18				
3	77	68	62	56	68	61	55	51	47	44	40	35	32	30	23	22	21	15				
4	71	61	53	48	63	54	48	43	42	38	35	31	28	26	21	19	18	14				
5	65	54	46	41	57	48	42	37	38	33	30	28	25	23	19	17	16	12				
6	60	48	41	36	53	44	37	32	34	30	26	25	22	20	17	16	14	11				
7	55	44	36	31	49	39	33	28	31	26	23	23	20	18	16	14	13	10				
8	51	40	32	27	45	36	29	25	28	24	21	21	18	16	15	13	12	9				
9	48	36	29	24	42	33	27	22	26	22	18	20	17	14	14	12	11	8				
10	44	33	26	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9411	9411	9411	9411
5°	10511	9470	8399	9470
10°	11663	9404	7279	9404
15°	12236	9267	5735	9267
20°	10608	9062	4962	9062
25°	6957	8783	4431	8783
30°	4683	8444	4010	8444
35°	3792	8016	3617	8016
40°	3372	7552	3347	7552
45°	3053	7005	2987	7005
50°	2778	6465	2768	6465
55°	2609	5866	2578	5866
60°	2186	5318	2160	5318
65°	1841	4829	2090	4829
70°	1699	4310	1969	4310
75°	1591	3755	1822	3755
80°	1469	3096	1618	3096
85°	1352	2445	1426	2445



TEST NUMBER: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.3
10°-20°	154.0	3.6
20°-30°	198.4	4.6
30°-40°	188.6	4.4
40°-50°	161.5	3.7
50°-60°	123.0	2.9
60°-70°	77.8	1.8
70°-80°	38.8	0.9
80°-90°	12.9	0.3
90°-100°	37.5	0.9
100°-110°	137.7	3.2
110°-120°	368.0	8.5
120°-130°	607.5	14.1
130°-140°	646.1	15.0
140°-150°	600.5	13.9
150°-160°	482.8	11.2
160°-170°	311.1	7.2
170°-180°	107.1	2.5
0°-30°	407.7	9.5
0°-40°	596.2	13.8
0°-60°	880.8	20.4
0°-90°	1010.2	23.4
90°-120°	543.2	12.6
90°-150°	2397.3	55.6
90°-180°	3298.0	76.5
0°-180°	4308.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	583	583	583	583	583	
5°	648	584	518	584	648	64
15°	732	554	343	554	732	197
25°	390	493	249	493	390	185
35°	192	407	184	407	192	123
45°	134	307	131	307	134	103
55°	93	208	92	208	93	81
65°	48	126	55	126	48	49
75°	26	60	29	60	26	27
85°	7	13	8	13	7	8
90°	22	1	22	1	22	10
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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	606.6	607.1	607.6	606.5	606.5	605.5	603.3	601.7	597.2	596.6	596.6
5°	648.5	648.2	649.0	646.3	642.7	641.9	638.0	632.9	627.7	621.9	620.6
7.5°	690.3	689.6	688.0	687.6	684.8	678.7	672.5	665.9	657.2	648.6	644.4
10°	711.4	718.1	714.0	706.9	708.3	698.8	693.8	685.0	677.7	664.9	662.2
12.5°	732.1	734.8	733.4	729.4	727.6	721.0	714.2	706.6	693.1	681.7	671.7
15°	732.0	735.8	736.9	735.7	736.6	736.3	732.6	726.4	714.6	702.0	691.1
17.5°	678.0	680.6	687.3	691.8	697.5	709.4	715.4	717.6	716.0	708.7	701.1
20°	617.4	613.0	631.6	641.1	649.2	669.4	686.9	693.6	704.3	704.1	702.0
22.5°	531.5	532.5	550.2	561.5	585.1	605.5	625.3	650.4	671.2	684.9	692.9
25°	390.5	398.2	415.8	431.2	457.5	495.3	529.5	569.2	606.6	636.2	664.4
27.5°	293.3	293.9	307.8	322.1	337.7	368.5	411.7	459.1	512.5	556.6	607.3
30°	251.2	249.9	255.8	264.6	277.9	301.8	334.2	380.8	434.1	500.5	559.6
32.5°	221.3	221.4	225.9	232.3	243.3	259.5	281.7	319.6	369.9	435.2	504.5
35°	192.4	192.3	195.5	200.1	204.7	215.1	230.3	250.1	284.8	345.7	416.6
37.5°	171.7	172.5	174.2	177.1	182.2	188.0	197.1	210.4	235.1	271.2	330.7
40°	160.0	160.4	162.6	165.1	168.1	172.5	180.0	190.8	208.8	237.6	281.2
42.5°	149.4	149.7	151.3	153.6	156.0	160.4	166.7	175.9	190.6	212.9	248.9
45°	133.7	133.7	135.1	136.1	138.8	142.8	147.8	155.6	165.7	182.3	206.2
47.5°	119.0	119.0	120.0	121.7	123.4	126.5	131.5	137.9	145.2	158.0	178.4
50°	110.6	110.8	111.4	112.8	113.9	116.6	120.6	126.0	133.7	143.7	160.6
52.5°	103.8	103.7	104.4	105.0	105.8	107.7	110.7	115.5	122.3	131.0	145.1
55°	92.7	91.9	93.2	94.2	94.8	95.6	97.2	100.2	106.1	113.4	123.9
57.5°	79.0	78.6	79.5	80.4	82.4	84.5	86.0	87.8	90.9	96.1	106.6
60°	67.7	67.7	69.5	70.1	72.3	75.2	78.0	79.6	82.7	86.1	93.8
62.5°	57.6	57.8	58.6	59.2	60.5	63.9	67.9	71.5	74.4	77.7	82.8
65°	48.2	48.6	48.6	49.0	49.8	50.6	52.3	55.1	60.2	64.8	68.7
67.5°	40.9	41.0	41.2	41.6	41.7	42.6	43.3	44.6	45.7	50.1	54.9
70°	36.0	36.6	36.5	36.8	37.1	37.5	38.3	38.9	40.8	41.7	44.6
72.5°	31.5	31.9	31.9	32.2	32.7	32.8	33.4	34.1	35.2	36.0	37.6
75°	25.5	25.3	25.5	25.9	26.1	26.3	26.3	27.1	27.7	28.5	29.6
77.5°	19.7	19.9	19.9	19.9	20.0	20.3	20.2	20.6	21.2	21.7	22.1
80°	15.8	16.0	15.8	16.0	16.2	16.4	16.2	16.4	17.0	17.4	17.4
82.5°	12.2	12.3	12.4	12.4	12.5	12.5	12.8	12.8	13.3	13.2	13.4
85°	7.3	7.1	7.1	7.1	7.3	7.5	7.3	7.3	7.5	7.5	7.5
87.5°	7.0	7.0	7.0	7.0	6.9	6.8	6.6	6.5	6.2	6.2	5.7
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	73.5
105°	61.9	61.2	60.5	59.7	59.0	57.6	55.6	53.7	51.6	49.7	99.1
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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	596.9	595.6	594.4	591.6	590.0	586.8	586.4	586.2	582.0	577.9	576.8
5°	617.4	614.1	609.3	603.6	597.7	591.7	587.6	584.3	576.2	568.6	564.1
7.5°	638.0	631.1	622.7	612.0	603.0	593.0	585.5	578.8	567.3	556.2	548.8
10°	653.4	642.1	631.0	616.2	604.6	593.3	582.7	573.6	560.7	546.1	535.7
12.5°	663.0	650.5	635.2	620.7	605.7	591.3	577.2	565.5	550.3	535.2	523.0
15°	675.9	662.5	643.9	623.2	604.0	585.1	569.0	554.4	534.6	516.5	501.5
17.5°	686.5	668.1	648.1	624.2	601.9	578.0	557.1	538.5	516.4	494.6	477.0
20°	689.9	671.6	648.5	624.6	598.3	570.2	547.7	527.4	503.7	480.0	459.8
22.5°	687.8	673.6	647.9	619.3	592.4	562.9	537.5	514.0	487.7	463.5	440.1
25°	673.5	668.6	644.4	613.1	582.4	548.1	518.7	493.0	463.1	437.1	411.6
27.5°	640.2	650.7	635.6	602.4	568.1	531.5	498.4	469.1	438.0	408.8	383.4
30°	608.1	632.1	625.7	594.9	556.6	520.6	483.5	452.9	419.7	389.7	364.6
32.5°	564.2	604.0	610.3	584.5	544.9	505.3	466.5	436.0	401.4	369.8	345.3
35°	494.2	553.8	581.1	564.7	525.0	482.2	442.2	406.7	371.8	340.7	316.4
37.5°	410.8	492.0	537.5	538.7	502.2	457.8	414.1	378.9	343.2	312.6	286.3
40°	356.7	444.6	504.0	517.1	486.3	438.4	394.1	358.3	323.5	293.5	263.3
42.5°	308.1	395.7	468.6	491.5	467.1	419.4	375.1	337.6	303.7	275.4	244.5
45°	249.1	325.7	406.1	447.0	433.5	389.3	342.5	306.8	275.1	250.6	221.0
47.5°	210.2	264.1	342.0	397.3	397.1	356.8	310.7	276.6	247.1	224.1	200.2
50°	188.0	235.0	300.8	363.6	368.8	335.0	291.2	257.4	229.9	205.8	186.5
52.5°	168.0	206.8	265.9	326.2	341.2	311.8	269.4	238.2	211.4	189.2	172.8
55°	142.0	172.0	217.0	273.2	296.0	275.3	237.6	208.4	186.7	168.1	153.9
57.5°	120.1	142.6	178.7	224.0	250.4	237.5	206.3	182.6	164.1	147.2	136.1
60°	106.4	124.8	155.3	193.2	222.4	213.3	186.7	164.7	148.9	134.3	123.8
62.5°	93.4	109.2	135.5	166.2	192.9	189.1	167.5	148.9	135.1	121.8	112.9
65°	75.2	86.7	107.2	131.3	152.8	154.5	138.9	126.4	114.0	103.5	95.6
67.5°	59.8	67.4	81.8	102.1	118.2	123.9	114.4	104.8	95.0	86.9	80.0
70°	50.5	56.5	67.1	83.5	98.3	104.3	98.8	91.3	82.8	76.2	70.3
72.5°	40.8	46.8	54.6	66.6	79.3	85.9	83.9	78.6	71.7	66.1	60.5
75°	30.8	32.6	37.9	46.0	55.9	61.6	63.0	60.2	54.7	50.5	47.2
77.5°	22.7	23.9	26.4	30.6	37.1	42.2	44.2	43.9	40.1	37.7	34.6
80°	18.2	18.8	20.1	21.8	26.8	31.8	33.3	33.3	30.6	29.6	26.6
82.5°	13.8	14.3	15.1	16.1	18.3	22.7	24.3	24.6	23.0	21.7	19.3
85°	7.9	7.7	8.1	8.7	9.1	10.3	12.8	13.2	12.8	11.1	10.5
87.5°	5.4	5.3	5.0	4.5	4.3	4.0	4.5	4.9	4.6	4.5	4.6
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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	574.7	573.5	571.4	568.2	566.2	562.8	560.6	561.9	562.2	561.9	561.6
5°	559.3	555.0	549.1	543.4	538.1	532.5	529.2	527.9	525.0	523.4	522.5
7.5°	540.6	533.2	525.0	515.1	506.7	497.8	493.4	491.2	485.4	482.2	479.5
10°	526.6	515.1	506.8	493.8	485.9	474.4	466.5	466.7	458.8	454.3	451.1
12.5°	511.2	498.6	484.7	473.1	462.1	452.8	443.3	439.4	431.1	426.8	418.0
15°	485.7	470.9	456.4	440.6	429.4	415.0	401.3	384.4	370.9	359.1	355.9
17.5°	457.9	439.5	424.9	406.4	387.3	363.1	347.1	337.3	329.2	323.0	318.3
20°	438.7	420.1	404.5	376.6	350.8	334.4	322.7	315.1	306.7	300.0	296.3
22.5°	418.7	399.2	377.9	346.7	326.6	313.5	303.1	294.4	288.6	283.5	280.1
25°	390.1	368.8	333.8	312.4	296.1	282.3	275.1	269.8	263.8	256.6	253.4
27.5°	360.0	326.2	301.0	285.0	269.6	260.6	254.0	246.2	240.8	237.6	234.2
30°	337.4	303.6	284.0	266.5	255.7	245.7	238.0	233.5	228.3	222.8	220.6
32.5°	312.4	285.3	266.4	252.0	240.9	232.4	226.3	219.1	215.3	212.0	207.3
35°	281.2	260.6	243.4	231.8	221.1	214.3	207.2	203.0	196.1	193.2	191.5
37.5°	254.8	237.0	224.2	211.8	203.4	195.8	191.5	184.7	181.7	177.7	173.9
40°	239.8	222.4	210.1	199.9	190.6	184.9	179.5	174.0	169.5	167.7	163.1
42.5°	224.6	210.4	198.0	187.0	180.7	174.7	167.8	163.8	159.2	156.2	153.4
45°	203.6	191.0	180.5	171.4	164.4	158.2	153.7	147.0	144.5	138.6	136.1
47.5°	185.1	173.4	163.4	154.7	148.0	143.9	137.4	132.2	128.0	124.3	121.2
50°	172.0	162.2	152.5	144.8	138.8	132.9	126.2	123.6	117.1	115.2	113.4
52.5°	160.0	150.7	141.9	134.3	128.2	122.5	116.6	113.2	108.8	107.0	105.7
55°	143.2	134.3	125.8	119.1	113.1	107.2	103.5	99.2	97.2	95.8	94.2
57.5°	126.4	118.3	111.8	105.0	98.9	94.3	90.1	87.5	85.4	83.6	81.6
60°	115.7	108.0	102.1	95.8	89.5	85.7	82.5	79.4	77.0	74.1	73.3
62.5°	104.3	97.6	92.2	86.1	80.6	77.1	74.0	71.2	68.2	64.1	63.0
65°	88.7	83.5	77.8	72.7	67.9	64.4	59.9	56.7	55.5	55.1	54.9
67.5°	74.6	69.6	64.7	59.6	55.2	52.0	49.7	49.2	48.3	48.2	47.5
70°	65.2	60.5	55.7	50.8	46.5	46.0	45.2	44.3	43.3	43.0	42.5
72.5°	56.8	52.0	47.1	43.2	41.4	40.7	39.9	39.0	38.3	37.9	37.7
75°	43.5	39.1	35.8	34.4	33.4	32.8	31.6	31.0	30.6	30.0	29.8
77.5°	31.4	28.8	27.4	26.5	25.4	24.8	24.1	23.5	23.0	22.9	22.6
80°	23.9	22.6	21.7	20.4	20.1	19.3	19.1	18.5	18.6	18.0	18.0
82.5°	18.5	17.0	16.1	15.6	15.2	14.5	14.4	14.1	14.1	13.6	13.6
85°	9.5	9.1	8.7	8.3	8.3	7.7	7.9	7.7	7.7	7.3	7.1
87.5°	4.8	5.0	5.0	5.3	5.5	5.7	5.9	5.9	6.1	6.2	6.2
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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	559.8	560.1	559.6	559.9	559.6	560.1	559.8	561.6	561.9	562.2	561.9
5°	521.6	519.2	518.7	518.2	518.7	519.2	521.6	522.5	523.4	525.0	527.9
7.5°	476.0	475.6	474.6	473.1	474.6	475.6	476.0	479.5	482.2	485.4	491.2
10°	446.7	445.6	445.4	444.0	445.4	445.6	446.7	451.1	454.3	458.8	466.7
12.5°	412.2	405.7	405.1	401.5	405.1	405.7	412.2	418.0	426.8	431.1	439.4
15°	351.1	349.8	345.7	343.1	345.7	349.8	351.1	355.9	359.1	370.9	384.4
17.5°	316.0	312.0	310.8	310.2	310.8	312.0	316.0	318.3	323.0	329.2	337.3
20°	293.5	289.9	289.3	288.8	289.3	289.9	293.5	296.3	300.0	306.7	315.1
22.5°	277.9	274.1	272.6	271.3	272.6	274.1	277.9	280.1	283.5	288.6	294.4
25°	251.4	249.9	249.1	248.7	249.1	249.9	251.4	253.4	256.6	263.8	269.8
27.5°	230.6	227.5	226.9	225.8	226.9	227.5	230.6	234.2	237.6	240.8	246.2
30°	218.7	217.8	216.3	215.1	216.3	217.8	218.7	220.6	222.8	228.3	233.5
32.5°	204.8	203.9	202.7	202.2	202.7	203.9	204.8	207.3	212.0	215.3	219.1
35°	189.4	186.5	185.3	183.5	185.3	186.5	189.4	191.5	193.2	196.1	203.0
37.5°	173.1	171.6	169.9	170.5	169.9	171.6	173.1	173.9	177.7	181.7	184.7
40°	160.4	159.4	159.0	158.8	159.0	159.4	160.4	163.1	167.7	169.5	174.0
42.5°	150.3	147.6	146.5	146.5	146.5	147.6	150.3	153.4	156.2	159.2	163.8
45°	135.1	132.5	130.6	130.8	130.6	132.5	135.1	136.1	138.6	144.5	147.0
47.5°	119.5	119.4	118.2	118.6	118.2	119.4	119.5	121.2	124.3	128.0	132.2
50°	112.0	110.8	109.9	110.2	109.9	110.8	112.0	113.4	115.2	117.1	123.6
52.5°	104.9	103.8	103.2	104.1	103.2	103.8	104.9	105.7	107.0	108.8	113.2
55°	93.2	91.9	91.8	91.6	91.8	91.9	93.2	94.2	95.8	97.2	99.2
57.5°	80.1	79.3	78.0	77.6	78.0	79.3	80.1	81.6	83.6	85.4	87.5
60°	70.7	69.1	67.1	66.9	67.1	69.1	70.7	73.3	74.1	77.0	79.4
62.5°	62.1	61.8	61.3	61.3	61.3	61.8	62.1	63.0	64.1	68.2	71.2
65°	54.5	54.3	54.5	54.7	54.5	54.3	54.5	54.9	55.1	55.5	56.7
67.5°	47.4	47.1	46.7	46.9	46.7	47.1	47.4	47.5	48.2	48.3	49.2
70°	42.1	41.9	41.7	41.7	41.7	41.9	42.1	42.5	43.0	43.3	44.3
72.5°	36.9	36.9	36.7	36.6	36.7	36.9	36.9	37.7	37.9	38.3	39.0
75°	29.6	29.2	29.2	29.2	29.2	29.2	29.6	29.8	30.0	30.6	31.0
77.5°	22.6	22.3	22.1	21.9	22.1	22.3	22.6	22.6	22.9	23.0	23.5
80°	17.8	17.7	17.4	17.4	17.4	17.7	17.8	18.0	18.0	18.6	18.5
82.5°	13.6	13.4	13.4	13.2	13.4	13.4	13.6	13.6	13.6	14.1	14.1
85°	7.3	7.5	7.3	7.7	7.3	7.5	7.3	7.1	7.3	7.7	7.7
87.5°	6.3	6.2	6.4	6.3	6.4	6.2	6.3	6.2	6.2	6.1	5.9
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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	560.6	562.8	566.2	568.2	571.4	573.5	574.7	576.8	577.9	582.0	586.2
5°	529.2	532.5	538.1	543.4	549.1	555.0	559.3	564.1	568.6	576.2	584.3
7.5°	493.4	497.8	506.7	515.1	525.0	533.2	540.6	548.8	556.2	567.3	578.8
10°	466.5	474.4	485.9	493.8	506.8	515.1	526.6	535.7	546.1	560.7	573.6
12.5°	443.3	452.8	462.1	473.1	484.7	498.6	511.2	523.0	535.2	550.3	565.5
15°	401.3	415.0	429.4	440.6	456.4	470.9	485.7	501.5	516.5	534.6	554.4
17.5°	347.1	363.1	387.3	406.4	424.9	439.5	457.9	477.0	494.6	516.4	538.5
20°	322.7	334.4	350.8	376.6	404.5	420.1	438.7	459.8	480.0	503.7	527.4
22.5°	303.1	313.5	326.6	346.7	377.9	399.2	418.7	440.1	463.5	487.7	514.0
25°	275.1	282.3	296.1	312.4	333.8	368.8	390.1	411.6	437.1	463.1	493.0
27.5°	254.0	260.6	269.6	285.0	301.0	326.2	360.0	383.4	408.8	438.0	469.1
30°	238.0	245.7	255.7	266.5	284.0	303.6	337.4	364.6	389.7	419.7	452.9
32.5°	226.3	232.4	240.9	252.0	266.4	285.3	312.4	345.3	369.8	401.4	436.0
35°	207.2	214.3	221.1	231.8	243.4	260.6	281.2	316.4	340.7	371.8	406.7
37.5°	191.5	195.8	203.4	211.8	224.2	237.0	254.8	286.3	312.6	343.2	378.9
40°	179.5	184.9	190.6	199.9	210.1	222.4	239.8	263.3	293.5	323.5	358.3
42.5°	167.8	174.7	180.7	187.0	198.0	210.4	224.6	244.5	275.4	303.7	337.6
45°	153.7	158.2	164.4	171.4	180.5	191.0	203.6	221.0	250.6	275.1	306.8
47.5°	137.4	143.9	148.0	154.7	163.4	173.4	185.1	200.2	224.1	247.1	276.6
50°	126.2	132.9	138.8	144.8	152.5	162.2	172.0	186.5	205.8	229.9	257.4
52.5°	116.6	122.5	128.2	134.3	141.9	150.7	160.0	172.8	189.2	211.4	238.2
55°	103.5	107.2	113.1	119.1	125.8	134.3	143.2	153.9	168.1	186.7	208.4
57.5°	90.1	94.3	98.9	105.0	111.8	118.3	126.4	136.1	147.2	164.1	182.6
60°	82.5	85.7	89.5	95.8	102.1	108.0	115.7	123.8	134.3	148.9	164.7
62.5°	74.0	77.1	80.6	86.1	92.2	97.6	104.3	112.9	121.8	135.1	148.9
65°	59.9	64.4	67.9	72.7	77.8	83.5	88.7	95.6	103.5	114.0	126.4
67.5°	49.7	52.0	55.2	59.6	64.7	69.6	74.6	80.0	86.9	95.0	104.8
70°	45.2	46.0	46.5	50.8	55.7	60.5	65.2	70.3	76.2	82.8	91.3
72.5°	39.9	40.7	41.4	43.2	47.1	52.0	56.8	60.5	66.1	71.7	78.6
75°	31.6	32.8	33.4	34.4	35.8	39.1	43.5	47.2	50.5	54.7	60.2
77.5°	24.1	24.8	25.4	26.5	27.4	28.8	31.4	34.6	37.7	40.1	43.9
80°	19.1	19.3	20.1	20.4	21.7	22.6	23.9	26.6	29.6	30.6	33.3
82.5°	14.4	14.5	15.2	15.6	16.1	17.0	18.5	19.3	21.7	23.0	24.6
85°	7.9	7.7	8.3	8.3	8.7	9.1	9.5	10.5	11.1	12.8	13.2
87.5°	5.9	5.7	5.5	5.3	5.0	5.0	4.8	4.6	4.5	4.6	4.9
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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	586.4	586.8	590.0	591.6	594.4	595.6	596.9	596.6	596.6	597.2	601.7
5°	587.6	591.7	597.7	603.6	609.3	614.1	617.4	620.6	621.9	627.7	632.9
7.5°	585.5	593.0	603.0	612.0	622.7	631.1	638.0	644.4	648.6	657.2	665.9
10°	582.7	593.3	604.6	616.2	631.0	642.1	653.4	662.2	664.9	677.7	685.0
12.5°	577.2	591.3	605.7	620.7	635.2	650.5	663.0	671.7	681.7	693.1	706.6
15°	569.0	585.1	604.0	623.2	643.9	662.5	675.9	691.1	702.0	714.6	726.4
17.5°	557.1	578.0	601.9	624.2	648.1	668.1	686.5	701.1	708.7	716.0	717.6
20°	547.7	570.2	598.3	624.6	648.5	671.6	689.9	702.0	704.1	704.3	693.6
22.5°	537.5	562.9	592.4	619.3	647.9	673.6	687.8	692.9	684.9	671.2	650.4
25°	518.7	548.1	582.4	613.1	644.4	668.6	673.5	664.4	636.2	606.6	569.2
27.5°	498.4	531.5	568.1	602.4	635.6	650.7	640.2	607.3	556.6	512.5	459.1
30°	483.5	520.6	556.6	594.9	625.7	632.1	608.1	559.6	500.5	434.1	380.8
32.5°	466.5	505.3	544.9	584.5	610.3	604.0	564.2	504.5	435.2	369.9	319.6
35°	442.2	482.2	525.0	564.7	581.1	553.8	494.2	416.6	345.7	284.8	250.1
37.5°	414.1	457.8	502.2	538.7	537.5	492.0	410.8	330.7	271.2	235.1	210.4
40°	394.1	438.4	486.3	517.1	504.0	444.6	356.7	281.2	237.6	208.8	190.8
42.5°	375.1	419.4	467.1	491.5	468.6	395.7	308.1	248.9	212.9	190.6	175.9
45°	342.5	389.3	433.5	447.0	406.1	325.7	249.1	206.2	182.3	165.7	155.6
47.5°	310.7	356.8	397.1	397.3	342.0	264.1	210.2	178.4	158.0	145.2	137.9
50°	291.2	335.0	368.8	363.6	300.8	235.0	188.0	160.6	143.7	133.7	126.0
52.5°	269.4	311.8	341.2	326.2	265.9	206.8	168.0	145.1	131.0	122.3	115.5
55°	237.6	275.3	296.0	273.2	217.0	172.0	142.0	123.9	113.4	106.1	100.2
57.5°	206.3	237.5	250.4	224.0	178.7	142.6	120.1	106.6	96.1	90.9	87.8
60°	186.7	213.3	222.4	193.2	155.3	124.8	106.4	93.8	86.1	82.7	79.6
62.5°	167.5	189.1	192.9	166.2	135.5	109.2	93.4	82.8	77.7	74.4	71.5
65°	138.9	154.5	152.8	131.3	107.2	86.7	75.2	68.7	64.8	60.2	55.1
67.5°	114.4	123.9	118.2	102.1	81.8	67.4	59.8	54.9	50.1	45.7	44.6
70°	98.8	104.3	98.3	83.5	67.1	56.5	50.5	44.6	41.7	40.8	38.9
72.5°	83.9	85.9	79.3	66.6	54.6	46.8	40.8	37.6	36.0	35.2	34.1
75°	63.0	61.6	55.9	46.0	37.9	32.6	30.8	29.6	28.5	27.7	27.1
77.5°	44.2	42.2	37.1	30.6	26.4	23.9	22.7	22.1	21.7	21.2	20.6
80°	33.3	31.8	26.8	21.8	20.1	18.8	18.2	17.4	17.4	17.0	16.4
82.5°	24.3	22.7	18.3	16.1	15.1	14.3	13.8	13.4	13.2	13.3	12.8
85°	12.8	10.3	9.1	8.7	8.1	7.7	7.9	7.5	7.5	7.5	7.3
87.5°	4.5	4.0	4.3	4.5	5.0	5.3	5.4	5.7	6.2	6.2	6.5
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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	603.3	605.5	606.5	606.5	607.6	607.1	606.6
5°	638.0	641.9	642.7	646.3	649.0	648.2	648.5
7.5°	672.5	678.7	684.8	687.6	688.0	689.6	690.3
10°	693.8	698.8	708.3	706.9	714.0	718.1	711.4
12.5°	714.2	721.0	727.6	729.4	733.4	734.8	732.1
15°	732.6	736.3	736.6	735.7	736.9	735.8	732.0
17.5°	715.4	709.4	697.5	691.8	687.3	680.6	678.0
20°	686.9	669.4	649.2	641.1	631.6	613.0	617.4
22.5°	625.3	605.5	585.1	561.5	550.2	532.5	531.5
25°	529.5	495.3	457.5	431.2	415.8	398.2	390.5
27.5°	411.7	368.5	337.7	322.1	307.8	293.9	293.3
30°	334.2	301.8	277.9	264.6	255.8	249.9	251.2
32.5°	281.7	259.5	243.3	232.3	225.9	221.4	221.3
35°	230.3	215.1	204.7	200.1	195.5	192.3	192.4
37.5°	197.1	188.0	182.2	177.1	174.2	172.5	171.7
40°	180.0	172.5	168.1	165.1	162.6	160.4	160.0
42.5°	166.7	160.4	156.0	153.6	151.3	149.7	149.4
45°	147.8	142.8	138.8	136.1	135.1	133.7	133.7
47.5°	131.5	126.5	123.4	121.7	120.0	119.0	119.0
50°	120.6	116.6	113.9	112.8	111.4	110.8	110.6
52.5°	110.7	107.7	105.8	105.0	104.4	103.7	103.8
55°	97.2	95.6	94.8	94.2	93.2	91.9	92.7
57.5°	86.0	84.5	82.4	80.4	79.5	78.6	79.0
60°	78.0	75.2	72.3	70.1	69.5	67.7	67.7
62.5°	67.9	63.9	60.5	59.2	58.6	57.8	57.6
65°	52.3	50.6	49.8	49.0	48.6	48.6	48.2
67.5°	43.3	42.6	41.7	41.6	41.2	41.0	40.9
70°	38.3	37.5	37.1	36.8	36.5	36.6	36.0
72.5°	33.4	32.8	32.7	32.2	31.9	31.9	31.5
75°	26.3	26.3	26.1	25.9	25.5	25.3	25.5
77.5°	20.2	20.3	20.0	19.9	19.9	19.9	19.7
80°	16.2	16.4	16.2	16.0	15.8	16.0	15.8
82.5°	12.8	12.5	12.5	12.4	12.4	12.3	12.2
85°	7.3	7.5	7.3	7.1	7.1	7.1	7.3
87.5°	6.6	6.8	6.9	7.0	7.0	7.0	7.0
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: P331633-940

CATALOG NUMBER: SA2XXRDIP-C290D925U940-4F0-1E-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)