

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: P331276-927

Luminaire Tested: **SA2XXDIP-C290D1080U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331276-927
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-C290D1080U927-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4446.5 lumens
Efficiency: N/A
Efficacy: 105.4 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

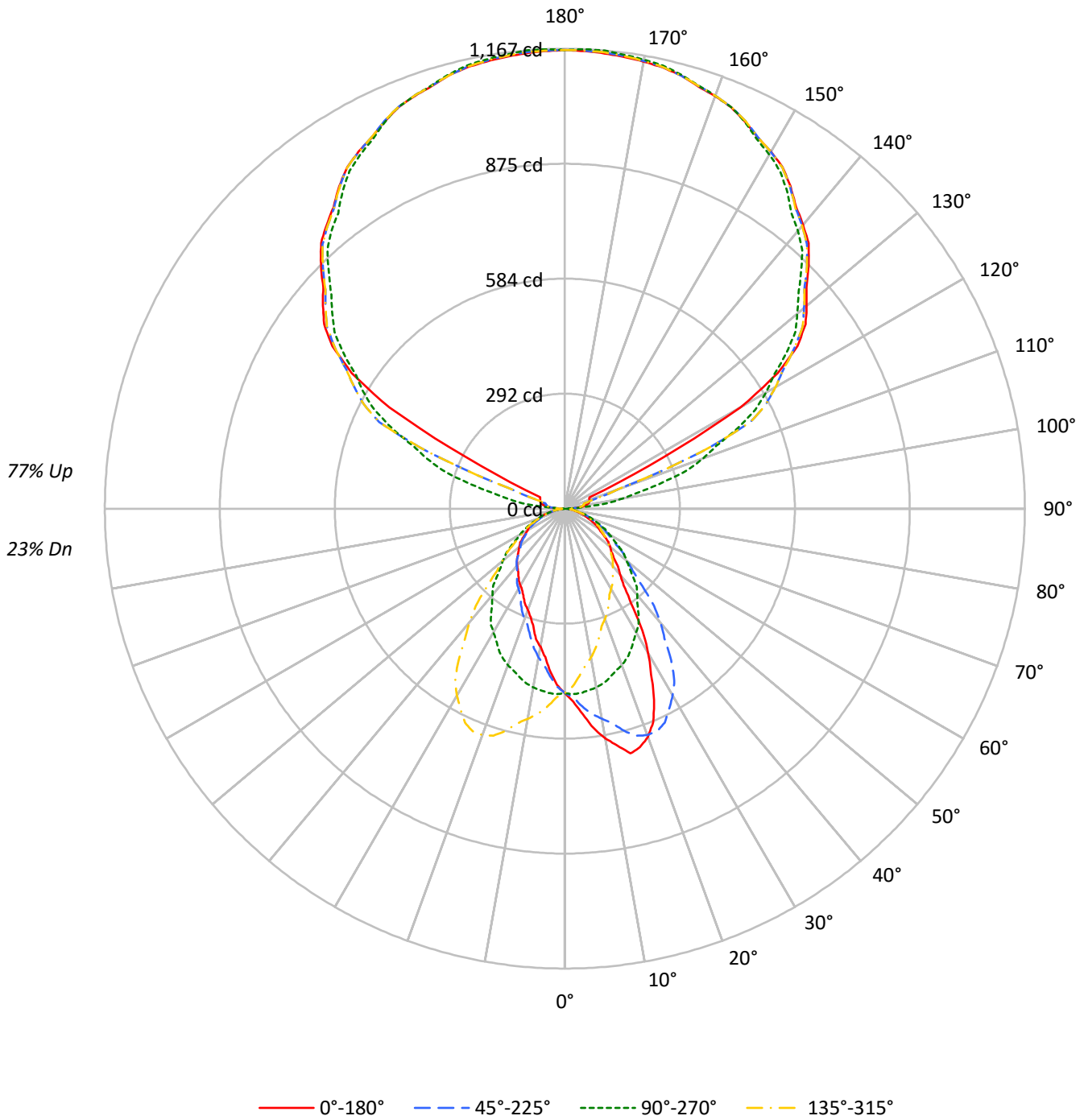
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	68	68	68	49	49	49	32	32	32	23				
1	92	88	84	81	82	78	75	73	60	58	56	44	42	41	28	28	27	20				
2	84	77	71	66	74	69	64	60	53	50	47	38	36	35	25	24	23	17				
3	77	68	61	55	68	61	55	50	47	43	40	34	32	30	22	21	20	15				
4	70	60	53	47	62	54	47	43	42	37	34	31	28	25	20	19	17	13				
5	64	53	46	40	57	48	41	36	37	33	29	27	24	22	18	17	15	11				
6	59	48	40	35	52	43	36	32	34	29	25	25	22	19	17	15	13	10				
7	55	43	36	30	48	39	32	28	30	26	22	22	19	17	15	13	12	9				
8	51	39	32	27	45	35	29	24	28	23	20	21	17	15	14	12	11	8				
9	47	35	28	24	42	32	26	22	25	21	18	19	16	14	13	11	10	7				
10	44	32	26	21	39	29	23	19	23	19	16	17	14	12	12	10	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7561	7561	7561	7561
5°	8475	7609	6744	7609
10°	9712	7547	5835	7547
15°	10745	7408	5157	7408
20°	10581	7261	4699	7261
25°	9540	7062	4411	7062
30°	7884	6747	4200	6747
35°	5746	6416	4050	6416
40°	4591	6028	3967	6028
45°	4010	5576	3854	5576
50°	3770	5139	3778	5139
55°	3474	4695	3676	4695
60°	3184	4224	3523	4224
65°	2904	3801	3370	3801
70°	2634	3389	3144	3389
75°	2339	2932	2782	2932
80°	2008	2427	2241	2427
85°	1797	1797	1334	1797



TEST NUMBER: P331276-927

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.0
10°-20°	129.6	2.9
20°-30°	188.1	4.2
30°-40°	198.5	4.5
40°-50°	175.8	4.0
50°-60°	140.3	3.2
60°-70°	95.4	2.1
70°-80°	48.9	1.1
80°-90°	14.7	0.3
90°-100°	38.8	0.9
100°-110°	142.4	3.2
110°-120°	380.6	8.6
120°-130°	628.2	14.1
130°-140°	668.1	15.0
140°-150°	620.9	14.0
150°-160°	499.2	11.2
160°-170°	321.7	7.2
170°-180°	110.7	2.5
0°-30°	362.4	8.1
0°-40°	560.9	12.6
0°-60°	877.0	19.7
0°-90°	1035.9	23.3
90°-120°	561.7	12.6
90°-150°	2478.9	55.8
90°-180°	3411.0	76.7
0°-180°	4446.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	468	468	468	468	468	
5°	523	470	416	470	523	52
15°	643	443	308	443	643	177
25°	536	396	248	396	536	242
35°	292	326	206	326	292	190
45°	176	244	169	244	176	138
55°	123	167	131	167	123	111
65°	76	100	88	100	76	76
75°	38	47	45	47	38	40
85°	10	10	7	10	10	11
90°	23	1	23	1	23	10
95°	36	55	36	55	36	34
105°	64	256	64	256	64	67
115°	69	484	69	484	69	173
125°	720	685	720	685	720	623
135°	875	847	875	847	875	674
145°	998	983	998	983	998	624
155°	1083	1082	1083	1082	1083	500
165°	1138	1140	1138	1140	1138	321
175°	1160	1166	1160	1166	1160	110
180°	1164	1164	1164	1164	1164	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	489.8	490.0	490.3	488.0	487.7	487.7	485.7	483.9	481.9	479.2	479.5
5°	522.9	524.9	525.6	523.5	520.2	519.9	516.8	511.8	507.1	503.4	500.7
7.5°	562.4	563.2	561.5	558.6	556.3	551.9	546.2	540.7	532.8	525.7	520.4
10°	592.4	593.5	590.4	586.3	582.9	577.8	569.6	561.1	550.9	541.0	533.1
12.5°	615.1	617.8	613.9	613.4	607.5	600.6	590.7	586.5	572.0	558.3	549.7
15°	642.8	642.6	643.0	639.5	635.3	634.1	623.8	612.4	592.1	583.9	569.9
17.5°	634.8	637.5	638.8	638.7	638.7	637.9	634.6	627.5	617.3	604.1	588.0
20°	615.8	619.4	620.0	624.1	626.5	629.5	630.7	628.8	622.5	611.5	597.5
22.5°	586.5	587.5	589.1	595.6	600.6	608.3	612.3	619.0	616.6	611.2	599.4
25°	535.5	533.8	540.0	543.3	555.0	567.2	576.1	585.7	594.4	599.6	596.2
27.5°	474.4	471.7	481.2	489.8	499.2	512.5	526.2	542.5	556.0	572.9	578.7
30°	422.9	424.5	433.5	442.7	457.1	475.8	491.3	509.1	528.4	547.2	560.4
32.5°	367.3	373.5	379.2	393.3	406.0	426.8	449.6	471.8	495.8	517.3	537.7
35°	291.5	298.7	306.7	316.9	334.7	355.4	377.6	407.6	440.4	469.7	493.8
37.5°	245.4	244.2	248.7	256.2	270.6	287.3	312.8	342.5	381.0	415.5	449.6
40°	217.8	217.1	220.2	227.1	238.1	250.3	272.7	298.7	334.5	376.7	417.2
42.5°	198.8	199.2	201.0	205.8	213.3	223.4	240.1	262.3	295.1	334.8	378.3
45°	175.6	176.9	178.9	181.3	185.5	193.8	203.2	219.0	244.9	278.1	320.8
47.5°	159.0	159.1	161.1	163.1	165.6	170.3	178.0	187.9	206.2	233.1	270.0
50°	150.1	148.9	150.3	151.9	154.6	157.8	162.9	172.2	184.4	206.2	237.0
52.5°	139.1	139.2	140.5	141.1	143.5	146.7	151.3	157.8	168.9	185.9	211.2
55°	123.4	124.4	125.1	126.1	128.3	130.6	134.3	138.6	147.2	159.9	178.7
57.5°	108.7	109.0	109.7	111.8	113.1	115.3	118.7	122.6	128.3	137.7	151.8
60°	98.6	98.6	100.1	100.9	102.7	104.9	107.6	111.4	116.5	124.1	135.5
62.5°	89.4	89.3	89.8	91.3	92.7	94.7	97.4	100.6	105.4	112.3	121.5
65°	76.0	75.6	76.7	77.0	78.4	80.4	82.6	86.0	89.8	94.8	103.1
67.5°	63.0	63.5	64.0	64.6	65.4	67.6	69.0	71.4	74.6	78.8	84.4
70°	55.8	55.8	55.8	56.3	57.4	58.5	59.9	61.9	65.0	68.5	73.6
72.5°	47.7	48.3	48.9	48.6	49.9	50.5	52.3	53.4	56.3	58.6	63.1
75°	37.5	37.5	37.5	38.3	38.9	39.4	40.5	41.6	43.0	45.9	48.2
77.5°	28.0	27.9	28.0	28.3	28.8	29.5	29.8	30.7	32.1	33.4	35.4
80°	21.6	21.9	22.1	22.5	22.5	22.8	23.1	24.3	25.2	26.1	27.3
82.5°	16.7	16.8	16.8	16.9	17.0	17.3	17.7	18.1	18.5	19.2	20.1
85°	9.7	9.5	9.5	9.9	9.7	9.7	10.1	10.5	10.5	10.6	11.2
87.5°	8.3	8.2	8.3	8.1	8.0	8.0	7.8	7.4	7.4	7.4	7.2
90°	22.7	22.3	22.0	21.6	21.2	20.6	19.6	18.7	17.7	16.9	15.4
92.5°	22.7	22.5	22.3	22.1	21.9	21.5	21.0	20.5	20.0	19.6	18.8
95°	36.2	36.4	36.6	36.8	37.0	36.6	35.6	34.7	33.7	32.9	31.5
97.5°	48.3	48.1	47.9	47.7	47.5	47.0	46.2	45.5	44.7	44.0	41.0
100°	56.4	56.1	55.7	55.3	54.9	54.0	52.5	51.0	49.5	48.0	44.8
102.5°	60.4	60.0	59.4	58.9	58.4	57.1	55.2	53.2	51.3	49.4	46.0
105°	64.0	63.2	62.5	61.8	61.0	59.6	57.5	55.5	53.4	51.3	48.4
107.5°	65.8	65.1	64.3	63.6	62.9	63.5	65.6	67.7	69.8	71.9	73.2
110°	66.5	65.8	65.0	64.2	63.5	72.5	91.3	110.0	128.7	147.3	201.5



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	67.2	66.6	66.0	65.4	64.8	98.6	166.9	235.2	303.5	371.7	385.1
115°	69.1	82.5	96.0	109.5	122.9	173.0	259.7	346.3	432.9	519.6	514.9
117.5°	281.9	326.2	370.5	414.8	459.1	491.7	512.6	533.6	554.5	575.5	572.3
120°	513.7	538.9	564.2	589.5	614.7	626.3	624.0	621.8	619.5	617.3	613.9
122.5°	641.0	645.9	650.9	655.8	660.6	662.4	661.1	659.7	658.4	657.0	653.4
125°	720.0	719.5	718.9	718.4	717.8	716.8	715.5	714.2	712.9	711.6	708.1
127.5°	769.8	769.8	769.7	769.5	769.4	768.4	766.5	764.6	762.7	760.8	758.1
130°	800.9	801.1	801.2	801.5	801.6	800.7	798.6	796.5	794.5	792.4	790.4
132.5°	831.2	831.4	831.6	831.7	831.9	831.2	829.4	827.6	825.9	824.1	822.0
135°	875.0	875.4	875.7	876.1	876.5	875.7	873.9	872.0	870.1	868.2	866.6
137.5°	914.9	915.5	916.2	916.8	917.4	916.8	915.0	913.1	911.3	909.5	907.6
140°	939.8	940.7	941.7	942.6	943.6	943.2	941.5	939.8	938.1	936.4	934.4
142.5°	964.1	965.0	965.9	966.9	967.8	967.5	966.0	964.4	962.9	961.4	959.0
145°	997.9	998.9	999.8	1000.8	1001.6	1001.5	1000.1	998.9	997.5	996.2	993.1
147.5°	1027.7	1028.5	1029.3	1030.1	1030.9	1030.8	1029.8	1028.8	1027.9	1026.9	1023.7
150°	1045.9	1046.9	1047.8	1048.7	1049.6	1049.6	1048.5	1047.3	1046.2	1045.0	1042.1
152.5°	1061.4	1062.6	1063.9	1065.1	1066.4	1066.4	1065.3	1064.1	1063.0	1061.9	1059.1
155°	1083.0	1084.5	1086.0	1087.4	1088.9	1089.2	1088.1	1086.9	1085.8	1084.7	1082.4
157.5°	1102.6	1104.1	1105.6	1107.1	1108.5	1108.6	1107.3	1106.0	1104.8	1103.5	1101.9
160°	1114.1	1115.5	1116.7	1118.1	1119.4	1119.4	1118.3	1117.2	1116.1	1115.0	1113.9
162.5°	1123.6	1125.1	1126.8	1128.4	1130.0	1130.2	1128.9	1127.6	1126.3	1125.1	1124.1
165°	1137.7	1139.0	1140.3	1141.6	1143.0	1143.0	1141.6	1140.3	1139.0	1137.7	1137.2
167.5°	1146.6	1148.3	1150.0	1151.7	1153.3	1153.6	1152.2	1151.0	1149.6	1148.3	1147.8
170°	1152.0	1153.7	1155.4	1157.1	1158.7	1159.0	1157.6	1156.3	1155.0	1153.7	1153.3
172.5°	1156.0	1157.8	1159.4	1161.1	1162.8	1163.0	1161.7	1160.4	1159.0	1157.8	1157.4
175°	1159.6	1161.5	1163.3	1165.2	1167.1	1167.4	1166.1	1164.7	1163.5	1162.1	1161.7
177.5°	1161.8	1163.2	1164.5	1165.9	1167.2	1167.4	1166.3	1165.2	1164.2	1163.2	1163.0
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	480.5	479.3	478.6	476.0	473.7	471.4	470.7	471.0	467.8	464.8	463.5
5°	499.2	495.6	492.2	487.4	481.6	475.2	472.1	469.5	463.2	456.4	452.4
7.5°	515.9	510.8	504.2	495.1	486.7	476.8	470.5	464.9	455.7	446.1	440.1
10°	526.2	519.2	510.7	499.6	489.3	477.2	468.8	460.3	449.6	438.0	430.8
12.5°	535.0	525.5	517.2	502.9	490.8	475.6	465.6	453.7	442.4	428.6	421.6
15°	555.9	538.4	522.6	506.4	491.5	470.4	459.2	443.2	428.3	411.4	403.3
17.5°	572.0	552.4	527.5	506.9	489.5	466.1	449.8	430.6	413.0	393.6	382.6
20°	581.2	558.7	532.0	507.5	486.6	459.9	442.1	422.6	401.9	380.1	368.2
22.5°	586.7	563.1	536.5	505.3	480.9	455.0	432.5	411.0	390.1	366.5	354.1
25°	588.4	566.9	538.8	503.5	473.6	444.3	417.3	396.4	371.1	349.1	331.0
27.5°	579.9	564.4	537.4	500.1	465.3	431.0	400.9	377.3	350.5	326.7	308.4
30°	569.3	560.4	534.1	496.7	458.7	421.8	388.7	361.9	335.3	311.2	292.4
32.5°	553.1	551.2	528.1	491.8	451.6	410.2	375.9	348.8	319.2	295.6	277.7
35°	521.2	529.8	515.2	480.9	438.4	393.6	356.5	325.5	294.9	272.3	255.6
37.5°	478.3	499.8	496.0	464.9	420.4	375.5	334.5	302.2	273.1	250.2	233.8
40°	448.8	476.2	480.1	452.6	407.8	361.6	318.1	286.0	257.5	236.6	220.1
42.5°	417.2	449.1	459.9	437.9	394.0	346.8	303.5	270.1	241.9	221.7	207.0
45°	364.1	406.3	426.0	413.4	370.9	322.7	278.1	244.2	218.6	199.6	188.2
47.5°	314.4	360.6	387.0	382.5	345.2	297.5	253.3	220.9	196.0	180.8	170.6
50°	279.3	326.8	358.6	360.1	326.8	279.5	235.2	204.6	181.7	167.5	159.2
52.5°	248.7	294.1	328.8	336.5	306.2	260.8	219.0	188.5	168.3	155.3	147.9
55°	208.9	247.2	285.7	299.8	275.5	232.3	193.6	166.8	147.9	138.9	132.5
57.5°	173.7	205.7	241.2	256.7	241.8	204.8	168.5	145.2	129.9	122.0	117.0
60°	155.1	180.3	212.0	230.5	217.5	184.7	153.0	130.8	118.2	111.2	106.5
62.5°	137.8	160.2	187.0	203.9	196.9	165.8	137.4	117.9	107.0	100.4	97.0
65°	113.8	131.3	152.1	167.7	163.0	139.5	116.2	99.5	90.9	85.6	82.9
67.5°	93.6	106.4	120.7	134.4	130.7	114.0	95.4	82.3	75.9	71.4	69.7
70°	81.0	90.7	103.5	114.5	111.4	97.8	82.9	71.8	66.2	62.4	60.8
72.5°	68.9	76.8	86.7	95.6	93.6	82.1	69.9	61.5	57.1	53.6	52.4
75°	52.0	58.1	64.1	70.0	69.5	60.7	53.5	47.0	43.6	40.9	40.3
77.5°	38.4	41.8	45.9	49.4	48.4	43.3	37.7	34.0	31.5	29.7	29.4
80°	29.3	31.3	34.2	36.7	35.5	33.3	28.8	26.1	24.3	22.5	21.8
82.5°	21.3	23.2	25.0	26.4	25.3	23.4	20.6	18.8	17.7	16.5	16.2
85°	11.2	12.2	13.0	13.3	13.0	11.7	10.5	9.7	8.8	8.2	8.1
87.5°	7.1	6.8	6.5	6.4	5.5	5.1	4.2	3.3	3.6	3.9	4.0
90°	13.9	12.4	10.9	9.1	7.1	5.0	2.9	0.9	2.9	5.0	7.1
92.5°	18.1	17.3	16.6	16.2	16.5	16.6	16.8	17.0	16.8	16.6	16.5
95°	30.3	28.9	27.6	30.0	36.2	42.4	48.6	54.7	48.6	42.4	36.2
97.5°	37.9	34.9	31.8	39.1	56.4	73.8	91.3	108.6	91.3	73.8	56.4
100°	41.7	38.4	35.3	46.5	72.2	97.8	123.4	149.1	123.4	97.8	72.2
102.5°	102.6	129.2	155.8	171.8	177.2	182.7	188.1	193.5	188.1	182.7	177.2
105°	153.5	204.6	255.7	278.5	272.8	267.2	261.7	256.0	261.7	267.2	272.8
107.5°	194.5	255.7	317.0	345.4	340.8	336.3	331.8	327.3	331.8	336.3	340.8
110°	255.6	309.6	363.7	388.8	384.8	381.0	377.0	373.0	377.0	381.0	384.8



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	398.5	411.8	425.2	430.1	426.6	423.1	419.7	416.2	419.7	423.1	426.6
115°	510.2	505.6	500.9	496.9	493.8	490.6	487.4	484.3	487.4	490.6	493.8
117.5°	569.1	565.9	562.6	559.3	555.7	552.2	548.6	545.0	548.6	552.2	555.7
120°	610.5	607.2	603.8	600.7	597.9	595.1	592.3	589.5	592.3	595.1	597.9
122.5°	649.7	646.0	642.4	639.1	636.1	633.1	630.2	627.2	630.2	633.1	636.1
125°	704.5	700.9	697.4	694.3	692.0	689.5	687.1	684.7	687.1	689.5	692.0
127.5°	755.4	752.8	750.1	747.5	744.8	742.1	739.4	736.7	739.4	742.1	744.8
130°	788.3	786.2	784.2	781.6	778.7	775.7	772.7	769.7	772.7	775.7	778.7
132.5°	820.0	817.9	815.9	813.6	811.0	808.5	806.0	803.4	806.0	808.5	811.0
135°	864.8	863.2	861.5	859.1	856.2	853.2	850.2	847.2	850.2	853.2	856.2
137.5°	905.7	903.8	901.8	899.8	897.8	895.6	893.6	891.4	893.6	895.6	897.8
140°	932.3	930.3	928.2	926.5	925.0	923.4	921.9	920.4	921.9	923.4	925.0
142.5°	956.6	954.3	952.0	950.1	948.7	947.4	946.0	944.7	946.0	947.4	948.7
145°	989.8	986.7	983.5	982.0	982.2	982.4	982.5	982.8	982.5	982.4	982.2
147.5°	1020.6	1017.5	1014.3	1013.1	1013.8	1014.5	1015.3	1016.0	1015.3	1014.5	1013.8
150°	1039.1	1036.1	1033.1	1032.3	1033.6	1034.9	1036.2	1037.5	1036.2	1034.9	1033.6
152.5°	1056.2	1053.4	1050.5	1049.9	1051.3	1052.7	1054.2	1055.7	1054.2	1052.7	1051.3
155°	1080.1	1077.9	1075.7	1075.4	1077.1	1078.8	1080.5	1082.1	1080.5	1078.8	1077.1
157.5°	1100.3	1098.8	1097.3	1097.2	1098.6	1100.0	1101.5	1102.9	1101.5	1100.0	1098.6
160°	1112.7	1111.6	1110.5	1110.5	1111.6	1112.7	1113.9	1115.0	1113.9	1112.7	1111.6
162.5°	1123.2	1122.1	1121.2	1121.3	1122.4	1123.5	1124.7	1125.8	1124.7	1123.5	1122.4
165°	1136.6	1136.0	1135.4	1135.8	1136.9	1138.0	1139.1	1140.3	1139.1	1138.0	1136.9
167.5°	1147.2	1146.8	1146.2	1146.5	1147.6	1148.7	1149.9	1151.0	1149.9	1148.7	1147.6
170°	1152.9	1152.6	1152.2	1152.6	1153.7	1154.8	1156.0	1157.1	1156.0	1154.8	1153.7
172.5°	1157.0	1156.7	1156.3	1156.7	1157.8	1158.9	1160.0	1161.1	1160.0	1158.9	1157.8
175°	1161.4	1161.0	1160.6	1161.1	1162.4	1163.7	1165.1	1166.3	1165.1	1163.7	1162.4
177.5°	1162.8	1162.7	1162.5	1163.0	1164.0	1165.1	1166.2	1167.2	1166.2	1165.1	1164.0
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	462.1	461.2	458.2	456.6	454.0	451.5	450.0	450.7	451.2	451.0	450.5
5°	448.8	445.4	440.1	435.7	432.5	426.5	424.0	422.7	421.6	420.4	419.1
7.5°	433.0	427.6	420.2	413.8	407.7	400.3	396.1	393.6	391.0	388.2	385.6
10°	421.8	414.2	406.3	397.4	390.1	383.5	377.6	373.6	369.9	366.5	364.1
12.5°	410.0	401.3	391.5	379.2	371.3	361.7	360.8	353.9	348.2	346.1	343.2
15°	391.3	379.0	366.5	352.0	345.7	337.1	331.7	326.2	321.4	318.0	317.1
17.5°	369.9	354.0	341.7	331.2	320.9	312.0	307.0	302.8	298.7	294.2	293.6
20°	353.6	339.9	326.5	317.3	306.7	297.6	291.5	287.2	283.8	281.1	278.8
22.5°	338.2	323.2	310.9	300.9	290.4	283.1	278.3	274.1	271.2	268.3	266.1
25°	313.5	301.8	288.3	276.9	268.3	263.6	259.7	256.1	254.3	252.3	249.8
27.5°	291.8	278.8	266.3	257.5	249.9	245.7	242.9	240.4	238.8	237.6	236.1
30°	276.6	263.5	253.6	244.9	238.6	234.5	232.7	231.2	229.3	228.5	227.8
32.5°	261.9	250.1	241.6	234.1	228.1	225.4	223.8	222.4	220.9	220.2	218.7
35°	241.1	231.2	223.0	218.8	214.0	211.6	210.4	208.6	207.2	206.4	206.2
37.5°	221.6	213.0	207.6	202.2	200.2	198.8	197.0	195.8	195.4	195.3	195.0
40°	208.9	201.9	197.0	192.7	191.9	189.6	188.2	187.2	187.2	187.4	187.2
42.5°	197.4	191.1	186.8	183.1	182.0	180.8	179.3	179.3	179.5	180.1	179.5
45°	180.0	175.5	172.4	170.6	168.7	167.4	167.2	167.7	167.9	168.1	168.7
47.5°	163.9	160.9	158.1	156.1	155.3	155.1	154.9	155.8	156.7	157.0	157.8
50°	154.4	151.0	148.6	147.3	146.6	146.3	146.6	147.7	148.5	149.3	149.9
52.5°	143.8	141.3	139.7	138.7	138.5	138.7	138.7	140.0	141.1	141.5	141.7
55°	129.0	127.2	126.9	125.2	126.0	125.8	126.7	127.4	128.5	129.6	129.8
57.5°	114.3	112.9	111.9	112.1	112.3	113.1	113.8	115.1	116.2	117.4	117.5
60°	104.6	103.9	103.3	103.3	103.6	104.7	105.6	106.9	107.6	108.4	108.8
62.5°	95.6	94.9	94.3	94.7	95.6	96.3	97.3	98.0	98.7	99.4	99.7
65°	81.5	81.2	81.7	82.1	82.2	83.1	84.4	84.9	85.6	86.0	87.3
67.5°	68.5	68.6	68.5	69.0	70.1	70.3	71.5	72.7	72.9	73.6	74.4
70°	59.7	60.1	60.4	60.8	61.7	62.1	63.0	63.5	64.2	64.8	65.4
72.5°	51.7	51.7	52.1	52.0	52.8	53.6	54.3	54.9	55.6	56.3	56.8
75°	39.8	39.8	40.2	40.3	41.2	42.1	41.9	42.3	43.0	43.7	44.1
77.5°	29.1	28.7	29.1	29.2	29.5	30.3	30.4	30.9	31.8	31.5	31.9
80°	22.1	21.6	22.1	22.3	22.3	23.2	23.2	23.6	24.1	23.6	24.1
82.5°	15.8	15.5	15.9	16.0	16.2	16.3	16.6	16.6	17.2	17.0	17.2
85°	7.9	7.8	7.9	7.8	7.9	8.1	8.1	7.9	7.9	8.2	7.8
87.5°	4.3	4.4	4.6	4.9	5.1	5.2	5.3	5.5	5.6	5.5	5.7
90°	9.1	10.9	12.4	13.9	15.4	16.9	17.7	18.7	19.6	20.6	21.2
92.5°	16.2	16.6	17.3	18.1	18.8	19.6	20.0	20.5	21.0	21.5	21.9
95°	30.0	27.6	28.9	30.3	31.5	32.9	33.7	34.7	35.6	36.6	37.0
97.5°	39.1	31.8	34.9	37.9	41.0	44.0	44.7	45.5	46.2	47.0	47.5
100°	46.5	35.3	38.4	41.7	44.8	48.0	49.5	51.0	52.5	54.0	54.9
102.5°	171.8	155.8	129.2	102.6	76.0	49.4	51.3	53.2	55.2	57.1	58.4
105°	278.5	255.7	204.6	153.5	102.4	51.3	53.4	55.5	57.5	59.6	61.0
107.5°	345.4	317.0	255.7	194.5	133.2	71.9	69.8	67.7	65.6	63.5	62.9
110°	388.8	363.7	309.6	255.6	201.5	147.3	128.7	110.0	91.3	72.5	63.5



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	430.1	425.2	411.8	398.5	385.1	371.7	303.5	235.2	166.9	98.6	64.8
115°	496.9	500.9	505.6	510.2	514.9	519.6	432.9	346.3	259.7	173.0	122.9
117.5°	559.3	562.6	565.9	569.1	572.3	575.5	554.5	533.6	512.6	491.7	459.1
120°	600.7	603.8	607.2	610.5	613.9	617.3	619.5	621.8	624.0	626.3	614.7
122.5°	639.1	642.4	646.0	649.7	653.4	657.0	658.4	659.7	661.1	662.4	660.6
125°	694.3	697.4	700.9	704.5	708.1	711.6	712.9	714.2	715.5	716.8	717.8
127.5°	747.5	750.1	752.8	755.4	758.1	760.8	762.7	764.6	766.5	768.4	769.4
130°	781.6	784.2	786.2	788.3	790.4	792.4	794.5	796.5	798.6	800.7	801.6
132.5°	813.6	815.9	817.9	820.0	822.0	824.1	825.9	827.6	829.4	831.2	831.9
135°	859.1	861.5	863.2	864.8	866.6	868.2	870.1	872.0	873.9	875.7	876.5
137.5°	899.8	901.8	903.8	905.7	907.6	909.5	911.3	913.1	915.0	916.8	917.4
140°	926.5	928.2	930.3	932.3	934.4	936.4	938.1	939.8	941.5	943.2	943.6
142.5°	950.1	952.0	954.3	956.6	959.0	961.4	962.9	964.4	966.0	967.5	967.8
145°	982.0	983.5	986.7	989.8	993.1	996.2	997.5	998.9	1000.1	1001.5	1001.6
147.5°	1013.1	1014.3	1017.5	1020.6	1023.7	1026.9	1027.9	1028.8	1029.8	1030.8	1030.9
150°	1032.3	1033.1	1036.1	1039.1	1042.1	1045.0	1046.2	1047.3	1048.5	1049.6	1049.6
152.5°	1049.9	1050.5	1053.4	1056.2	1059.1	1061.9	1063.0	1064.1	1065.3	1066.4	1066.4
155°	1075.4	1075.7	1077.9	1080.1	1082.4	1084.7	1085.8	1086.9	1088.1	1089.2	1088.9
157.5°	1097.2	1097.3	1098.8	1100.3	1101.9	1103.5	1104.8	1106.0	1107.3	1108.6	1108.5
160°	1110.5	1110.5	1111.6	1112.7	1113.9	1115.0	1116.1	1117.2	1118.3	1119.4	1119.4
162.5°	1121.3	1121.2	1122.1	1123.2	1124.1	1125.1	1126.3	1127.6	1128.9	1130.2	1130.0
165°	1135.8	1135.4	1136.0	1136.6	1137.2	1137.7	1139.0	1140.3	1141.6	1143.0	1143.0
167.5°	1146.5	1146.2	1146.8	1147.2	1147.8	1148.3	1149.6	1151.0	1152.2	1153.6	1153.3
170°	1152.6	1152.2	1152.6	1152.9	1153.3	1153.7	1155.0	1156.3	1157.6	1159.0	1158.7
172.5°	1156.7	1156.3	1156.7	1157.0	1157.4	1157.8	1159.0	1160.4	1161.7	1163.0	1162.8
175°	1161.1	1160.6	1161.0	1161.4	1161.7	1162.1	1163.5	1164.7	1166.1	1167.4	1167.1
177.5°	1163.0	1162.5	1162.7	1162.8	1163.0	1163.2	1164.2	1165.2	1166.3	1167.4	1167.2
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	449.1	448.8	448.8	447.5	448.8	448.8	449.1	450.5	451.0	451.2	450.7
5°	416.6	416.1	415.2	416.1	415.2	416.1	416.6	419.1	420.4	421.6	422.7
7.5°	384.4	382.3	382.0	379.9	382.0	382.3	384.4	385.6	388.2	391.0	393.6
10°	361.0	359.6	359.3	355.9	359.3	359.6	361.0	364.1	366.5	369.9	373.6
12.5°	343.2	339.7	340.4	338.4	340.4	339.7	343.2	343.2	346.1	348.2	353.9
15°	312.2	312.2	311.5	308.5	311.5	312.2	312.2	317.1	318.0	321.4	326.2
17.5°	290.0	289.6	288.0	288.8	288.0	289.6	290.0	293.6	294.2	298.7	302.8
20°	276.8	275.7	273.5	273.5	273.5	275.7	276.8	278.8	281.1	283.8	287.2
22.5°	264.3	264.2	261.9	262.6	261.9	264.2	264.3	266.1	268.3	271.2	274.1
25°	249.6	248.2	247.1	247.6	247.1	248.2	249.6	249.8	252.3	254.3	256.1
27.5°	235.7	234.9	234.8	233.4	234.8	234.9	235.7	236.1	237.6	238.8	240.4
30°	227.7	225.9	226.2	225.3	226.2	225.9	227.7	227.8	228.5	229.3	231.2
32.5°	218.4	217.8	217.5	216.7	217.5	217.8	218.4	218.7	220.2	220.9	222.4
35°	205.9	206.0	205.2	205.5	205.2	206.0	205.9	206.2	206.4	207.2	208.6
37.5°	194.9	195.4	195.0	195.1	195.0	195.4	194.9	195.0	195.3	195.4	195.8
40°	187.7	187.7	187.7	188.2	187.7	187.7	187.7	187.2	187.4	187.2	187.2
42.5°	180.8	180.5	180.2	180.1	180.2	180.5	180.8	179.5	180.1	179.5	179.3
45°	169.0	169.5	169.7	168.8	169.7	169.5	169.0	168.7	168.1	167.9	167.7
47.5°	158.3	158.4	158.3	159.1	158.3	158.4	158.3	157.8	157.0	156.7	155.8
50°	150.8	150.4	150.8	150.4	150.8	150.4	150.8	149.9	149.3	148.5	147.7
52.5°	142.9	143.0	142.8	142.7	142.8	143.0	142.9	141.7	141.5	141.1	140.0
55°	130.5	130.8	130.6	130.6	130.6	130.8	130.5	129.8	129.6	128.5	127.4
57.5°	117.6	118.0	118.2	117.4	118.2	118.0	117.6	117.5	117.4	116.2	115.1
60°	108.7	109.6	109.4	109.1	109.4	109.6	108.7	108.8	108.4	107.6	106.9
62.5°	100.4	100.8	100.8	100.7	100.8	100.8	100.4	99.7	99.4	98.7	98.0
65°	87.9	88.2	87.6	88.2	87.6	88.2	87.9	87.3	86.0	85.6	84.9
67.5°	74.1	74.3	74.7	74.9	74.7	74.3	74.1	74.4	73.6	72.9	72.7
70°	65.7	65.5	66.1	66.6	66.1	65.5	65.7	65.4	64.8	64.2	63.5
72.5°	56.7	57.1	57.0	57.4	57.0	57.1	56.7	56.8	56.3	55.6	54.9
75°	43.7	44.3	44.1	44.6	44.1	44.3	43.7	44.1	43.7	43.0	42.3
77.5°	31.6	31.7	31.6	31.9	31.6	31.7	31.6	31.9	31.5	31.8	30.9
80°	24.1	23.8	23.4	24.1	23.4	23.8	24.1	24.1	23.6	24.1	23.6
82.5°	16.8	17.0	16.6	16.6	16.6	17.0	16.8	17.2	17.0	17.2	16.6
85°	7.8	7.5	7.2	7.2	7.2	7.5	7.8	7.8	8.2	7.9	7.9
87.5°	5.8	5.7	5.8	5.7	5.8	5.7	5.8	5.7	5.5	5.6	5.5
90°	21.6	22.0	22.3	22.7	22.3	22.0	21.6	21.2	20.6	19.6	18.7
92.5°	22.1	22.3	22.5	22.7	22.5	22.3	22.1	21.9	21.5	21.0	20.5
95°	36.8	36.6	36.4	36.2	36.4	36.6	36.8	37.0	36.6	35.6	34.7
97.5°	47.7	47.9	48.1	48.3	48.1	47.9	47.7	47.5	47.0	46.2	45.5
100°	55.3	55.7	56.1	56.4	56.1	55.7	55.3	54.9	54.0	52.5	51.0
102.5°	58.9	59.4	60.0	60.4	60.0	59.4	58.9	58.4	57.1	55.2	53.2
105°	61.8	62.5	63.2	64.0	63.2	62.5	61.8	61.0	59.6	57.5	55.5
107.5°	63.6	64.3	65.1	65.8	65.1	64.3	63.6	62.9	63.5	65.6	67.7
110°	64.2	65.0	65.8	66.5	65.8	65.0	64.2	63.5	72.5	91.3	110.0



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	65.4	66.0	66.6	67.2	66.6	66.0	65.4	64.8	98.6	166.9	235.2
115°	109.5	96.0	82.5	69.1	82.5	96.0	109.5	122.9	173.0	259.7	346.3
117.5°	414.8	370.5	326.2	281.9	326.2	370.5	414.8	459.1	491.7	512.6	533.6
120°	589.5	564.2	538.9	513.7	538.9	564.2	589.5	614.7	626.3	624.0	621.8
122.5°	655.8	650.9	645.9	641.0	645.9	650.9	655.8	660.6	662.4	661.1	659.7
125°	718.4	718.9	719.5	720.0	719.5	718.9	718.4	717.8	716.8	715.5	714.2
127.5°	769.5	769.7	769.8	769.8	769.8	769.7	769.5	769.4	768.4	766.5	764.6
130°	801.5	801.2	801.1	800.9	801.1	801.2	801.5	801.6	800.7	798.6	796.5
132.5°	831.7	831.6	831.4	831.2	831.4	831.6	831.7	831.9	831.2	829.4	827.6
135°	876.1	875.7	875.4	875.0	875.4	875.7	876.1	876.5	875.7	873.9	872.0
137.5°	916.8	916.2	915.5	914.9	915.5	916.2	916.8	917.4	916.8	915.0	913.1
140°	942.6	941.7	940.7	939.8	940.7	941.7	942.6	943.6	943.2	941.5	939.8
142.5°	966.9	965.9	965.0	964.1	965.0	965.9	966.9	967.8	967.5	966.0	964.4
145°	1000.8	999.8	998.9	997.9	998.9	999.8	1000.8	1001.6	1001.5	1000.1	998.9
147.5°	1030.1	1029.3	1028.5	1027.7	1028.5	1029.3	1030.1	1030.9	1030.8	1029.8	1028.8
150°	1048.7	1047.8	1046.9	1045.9	1046.9	1047.8	1048.7	1049.6	1049.6	1048.5	1047.3
152.5°	1065.1	1063.9	1062.6	1061.4	1062.6	1063.9	1065.1	1066.4	1066.4	1065.3	1064.1
155°	1087.4	1086.0	1084.5	1083.0	1084.5	1086.0	1087.4	1088.9	1089.2	1088.1	1086.9
157.5°	1107.1	1105.6	1104.1	1102.6	1104.1	1105.6	1107.1	1108.5	1108.6	1107.3	1106.0
160°	1118.1	1116.7	1115.5	1114.1	1115.5	1116.7	1118.1	1119.4	1119.4	1118.3	1117.2
162.5°	1128.4	1126.8	1125.1	1123.6	1125.1	1126.8	1128.4	1130.0	1130.2	1128.9	1127.6
165°	1141.6	1140.3	1139.0	1137.7	1139.0	1140.3	1141.6	1143.0	1143.0	1141.6	1140.3
167.5°	1151.7	1150.0	1148.3	1146.6	1148.3	1150.0	1151.7	1153.3	1153.6	1152.2	1151.0
170°	1157.1	1155.4	1153.7	1152.0	1153.7	1155.4	1157.1	1158.7	1159.0	1157.6	1156.3
172.5°	1161.1	1159.4	1157.8	1156.0	1157.8	1159.4	1161.1	1162.8	1163.0	1161.7	1160.4
175°	1165.2	1163.3	1161.5	1159.6	1161.5	1163.3	1165.2	1167.1	1167.4	1166.1	1164.7
177.5°	1165.9	1164.5	1163.2	1161.8	1163.2	1164.5	1165.9	1167.2	1167.4	1166.3	1165.2
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	450.0	451.5	454.0	456.6	458.2	461.2	462.1	463.5	464.8	467.8	471.0
5°	424.0	426.5	432.5	435.7	440.1	445.4	448.8	452.4	456.4	463.2	469.5
7.5°	396.1	400.3	407.7	413.8	420.2	427.6	433.0	440.1	446.1	455.7	464.9
10°	377.6	383.5	390.1	397.4	406.3	414.2	421.8	430.8	438.0	449.6	460.3
12.5°	360.8	361.7	371.3	379.2	391.5	401.3	410.0	421.6	428.6	442.4	453.7
15°	331.7	337.1	345.7	352.0	366.5	379.0	391.3	403.3	411.4	428.3	443.2
17.5°	307.0	312.0	320.9	331.2	341.7	354.0	369.9	382.6	393.6	413.0	430.6
20°	291.5	297.6	306.7	317.3	326.5	339.9	353.6	368.2	380.1	401.9	422.6
22.5°	278.3	283.1	290.4	300.9	310.9	323.2	338.2	354.1	366.5	390.1	411.0
25°	259.7	263.6	268.3	276.9	288.3	301.8	313.5	331.0	349.1	371.1	396.4
27.5°	242.9	245.7	249.9	257.5	266.3	278.8	291.8	308.4	326.7	350.5	377.3
30°	232.7	234.5	238.6	244.9	253.6	263.5	276.6	292.4	311.2	335.3	361.9
32.5°	223.8	225.4	228.1	234.1	241.6	250.1	261.9	277.7	295.6	319.2	348.8
35°	210.4	211.6	214.0	218.8	223.0	231.2	241.1	255.6	272.3	294.9	325.5
37.5°	197.0	198.8	200.2	202.2	207.6	213.0	221.6	233.8	250.2	273.1	302.2
40°	188.2	189.6	191.9	192.7	197.0	201.9	208.9	220.1	236.6	257.5	286.0
42.5°	179.3	180.8	182.0	183.1	186.8	191.1	197.4	207.0	221.7	241.9	270.1
45°	167.2	167.4	168.7	170.6	172.4	175.5	180.0	188.2	199.6	218.6	244.2
47.5°	154.9	155.1	155.3	156.1	158.1	160.9	163.9	170.6	180.8	196.0	220.9
50°	146.6	146.3	146.6	147.3	148.6	151.0	154.4	159.2	167.5	181.7	204.6
52.5°	138.7	138.7	138.5	138.7	139.7	141.3	143.8	147.9	155.3	168.3	188.5
55°	126.7	125.8	126.0	125.2	126.9	127.2	129.0	132.5	138.9	147.9	166.8
57.5°	113.8	113.1	112.3	112.1	111.9	112.9	114.3	117.0	122.0	129.9	145.2
60°	105.6	104.7	103.6	103.3	103.3	103.9	104.6	106.5	111.2	118.2	130.8
62.5°	97.3	96.3	95.6	94.7	94.3	94.9	95.6	97.0	100.4	107.0	117.9
65°	84.4	83.1	82.2	82.1	81.7	81.2	81.5	82.9	85.6	90.9	99.5
67.5°	71.5	70.3	70.1	69.0	68.5	68.6	68.5	69.7	71.4	75.9	82.3
70°	63.0	62.1	61.7	60.8	60.4	60.1	59.7	60.8	62.4	66.2	71.8
72.5°	54.3	53.6	52.8	52.0	52.1	51.7	51.7	52.4	53.6	57.1	61.5
75°	41.9	42.1	41.2	40.3	40.2	39.8	39.8	40.3	40.9	43.6	47.0
77.5°	30.4	30.3	29.5	29.2	29.1	28.7	29.1	29.4	29.7	31.5	34.0
80°	23.2	23.2	22.3	22.3	22.1	21.6	22.1	21.8	22.5	24.3	26.1
82.5°	16.6	16.3	16.2	16.0	15.9	15.5	15.8	16.2	16.5	17.7	18.8
85°	8.1	8.1	7.9	7.8	7.9	7.8	7.9	8.1	8.2	8.8	9.7
87.5°	5.3	5.2	5.1	4.9	4.6	4.4	4.3	4.0	3.9	3.6	3.3
90°	17.7	16.9	15.4	13.9	12.4	10.9	9.1	7.1	5.0	2.9	0.9
92.5°	20.0	19.6	18.8	18.1	17.3	16.6	16.2	16.5	16.6	16.8	17.0
95°	33.7	32.9	31.5	30.3	28.9	27.6	30.0	36.2	42.4	48.6	54.7
97.5°	44.7	44.0	41.0	37.9	34.9	31.8	39.1	56.4	73.8	91.3	108.6
100°	49.5	48.0	44.8	41.7	38.4	35.3	46.5	72.2	97.8	123.4	149.1
102.5°	51.3	49.4	76.0	102.6	129.2	155.8	171.8	177.2	182.7	188.1	193.5
105°	53.4	51.3	102.4	153.5	204.6	255.7	278.5	272.8	267.2	261.7	256.0
107.5°	69.8	71.9	133.2	194.5	255.7	317.0	345.4	340.8	336.3	331.8	327.3
110°	128.7	147.3	201.5	255.6	309.6	363.7	388.8	384.8	381.0	377.0	373.0



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.5	371.7	385.1	398.5	411.8	425.2	430.1	426.6	423.1	419.7	416.2
115°	432.9	519.6	514.9	510.2	505.6	500.9	496.9	493.8	490.6	487.4	484.3
117.5°	554.5	575.5	572.3	569.1	565.9	562.6	559.3	555.7	552.2	548.6	545.0
120°	619.5	617.3	613.9	610.5	607.2	603.8	600.7	597.9	595.1	592.3	589.5
122.5°	658.4	657.0	653.4	649.7	646.0	642.4	639.1	636.1	633.1	630.2	627.2
125°	712.9	711.6	708.1	704.5	700.9	697.4	694.3	692.0	689.5	687.1	684.7
127.5°	762.7	760.8	758.1	755.4	752.8	750.1	747.5	744.8	742.1	739.4	736.7
130°	794.5	792.4	790.4	788.3	786.2	784.2	781.6	778.7	775.7	772.7	769.7
132.5°	825.9	824.1	822.0	820.0	817.9	815.9	813.6	811.0	808.5	806.0	803.4
135°	870.1	868.2	866.6	864.8	863.2	861.5	859.1	856.2	853.2	850.2	847.2
137.5°	911.3	909.5	907.6	905.7	903.8	901.8	899.8	897.8	895.6	893.6	891.4
140°	938.1	936.4	934.4	932.3	930.3	928.2	926.5	925.0	923.4	921.9	920.4
142.5°	962.9	961.4	959.0	956.6	954.3	952.0	950.1	948.7	947.4	946.0	944.7
145°	997.5	996.2	993.1	989.8	986.7	983.5	982.0	982.2	982.4	982.5	982.8
147.5°	1027.9	1026.9	1023.7	1020.6	1017.5	1014.3	1013.1	1013.8	1014.5	1015.3	1016.0
150°	1046.2	1045.0	1042.1	1039.1	1036.1	1033.1	1032.3	1033.6	1034.9	1036.2	1037.5
152.5°	1063.0	1061.9	1059.1	1056.2	1053.4	1050.5	1049.9	1051.3	1052.7	1054.2	1055.7
155°	1085.8	1084.7	1082.4	1080.1	1077.9	1075.7	1075.4	1077.1	1078.8	1080.5	1082.1
157.5°	1104.8	1103.5	1101.9	1100.3	1098.8	1097.3	1097.2	1098.6	1100.0	1101.5	1102.9
160°	1116.1	1115.0	1113.9	1112.7	1111.6	1110.5	1110.5	1111.6	1112.7	1113.9	1115.0
162.5°	1126.3	1125.1	1124.1	1123.2	1122.1	1121.2	1121.3	1122.4	1123.5	1124.7	1125.8
165°	1139.0	1137.7	1137.2	1136.6	1136.0	1135.4	1135.8	1136.9	1138.0	1139.1	1140.3
167.5°	1149.6	1148.3	1147.8	1147.2	1146.8	1146.2	1146.5	1147.6	1148.7	1149.9	1151.0
170°	1155.0	1153.7	1153.3	1152.9	1152.6	1152.2	1152.6	1153.7	1154.8	1156.0	1157.1
172.5°	1159.0	1157.8	1157.4	1157.0	1156.7	1156.3	1156.7	1157.8	1158.9	1160.0	1161.1
175°	1163.5	1162.1	1161.7	1161.4	1161.0	1160.6	1161.1	1162.4	1163.7	1165.1	1166.3
177.5°	1164.2	1163.2	1163.0	1162.8	1162.7	1162.5	1163.0	1164.0	1165.1	1166.2	1167.2
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	470.7	471.4	473.7	476.0	478.6	479.3	480.5	479.5	479.2	481.9	483.9
5°	472.1	475.2	481.6	487.4	492.2	495.6	499.2	500.7	503.4	507.1	511.8
7.5°	470.5	476.8	486.7	495.1	504.2	510.8	515.9	520.4	525.7	532.8	540.7
10°	468.8	477.2	489.3	499.6	510.7	519.2	526.2	533.1	541.0	550.9	561.1
12.5°	465.6	475.6	490.8	502.9	517.2	525.5	535.0	549.7	558.3	572.0	586.5
15°	459.2	470.4	491.5	506.4	522.6	538.4	555.9	569.9	583.9	592.1	612.4
17.5°	449.8	466.1	489.5	506.9	527.5	552.4	572.0	588.0	604.1	617.3	627.5
20°	442.1	459.9	486.6	507.5	532.0	558.7	581.2	597.5	611.5	622.5	628.8
22.5°	432.5	455.0	480.9	505.3	536.5	563.1	586.7	599.4	611.2	616.6	619.0
25°	417.3	444.3	473.6	503.5	538.8	566.9	588.4	596.2	599.6	594.4	585.7
27.5°	400.9	431.0	465.3	500.1	537.4	564.4	579.9	578.7	572.9	556.0	542.5
30°	388.7	421.8	458.7	496.7	534.1	560.4	569.3	560.4	547.2	528.4	509.1
32.5°	375.9	410.2	451.6	491.8	528.1	551.2	553.1	537.7	517.3	495.8	471.8
35°	356.5	393.6	438.4	480.9	515.2	529.8	521.2	493.8	469.7	440.4	407.6
37.5°	334.5	375.5	420.4	464.9	496.0	499.8	478.3	449.6	415.5	381.0	342.5
40°	318.1	361.6	407.8	452.6	480.1	476.2	448.8	417.2	376.7	334.5	298.7
42.5°	303.5	346.8	394.0	437.9	459.9	449.1	417.2	378.3	334.8	295.1	262.3
45°	278.1	322.7	370.9	413.4	426.0	406.3	364.1	320.8	278.1	244.9	219.0
47.5°	253.3	297.5	345.2	382.5	387.0	360.6	314.4	270.0	233.1	206.2	187.9
50°	235.2	279.5	326.8	360.1	358.6	326.8	279.3	237.0	206.2	184.4	172.2
52.5°	219.0	260.8	306.2	336.5	328.8	294.1	248.7	211.2	185.9	168.9	157.8
55°	193.6	232.3	275.5	299.8	285.7	247.2	208.9	178.7	159.9	147.2	138.6
57.5°	168.5	204.8	241.8	256.7	241.2	205.7	173.7	151.8	137.7	128.3	122.6
60°	153.0	184.7	217.5	230.5	212.0	180.3	155.1	135.5	124.1	116.5	111.4
62.5°	137.4	165.8	196.9	203.9	187.0	160.2	137.8	121.5	112.3	105.4	100.6
65°	116.2	139.5	163.0	167.7	152.1	131.3	113.8	103.1	94.8	89.8	86.0
67.5°	95.4	114.0	130.7	134.4	120.7	106.4	93.6	84.4	78.8	74.6	71.4
70°	82.9	97.8	111.4	114.5	103.5	90.7	81.0	73.6	68.5	65.0	61.9
72.5°	69.9	82.1	93.6	95.6	86.7	76.8	68.9	63.1	58.6	56.3	53.4
75°	53.5	60.7	69.5	70.0	64.1	58.1	52.0	48.2	45.9	43.0	41.6
77.5°	37.7	43.3	48.4	49.4	45.9	41.8	38.4	35.4	33.4	32.1	30.7
80°	28.8	33.3	35.5	36.7	34.2	31.3	29.3	27.3	26.1	25.2	24.3
82.5°	20.6	23.4	25.3	26.4	25.0	23.2	21.3	20.1	19.2	18.5	18.1
85°	10.5	11.7	13.0	13.3	13.0	12.2	11.2	11.2	10.6	10.5	10.5
87.5°	4.2	5.1	5.5	6.4	6.5	6.8	7.1	7.2	7.4	7.4	7.4
90°	2.9	5.0	7.1	9.1	10.9	12.4	13.9	15.4	16.9	17.7	18.7
92.5°	16.8	16.6	16.5	16.2	16.6	17.3	18.1	18.8	19.6	20.0	20.5
95°	48.6	42.4	36.2	30.0	27.6	28.9	30.3	31.5	32.9	33.7	34.7
97.5°	91.3	73.8	56.4	39.1	31.8	34.9	37.9	41.0	44.0	44.7	45.5
100°	123.4	97.8	72.2	46.5	35.3	38.4	41.7	44.8	48.0	49.5	51.0
102.5°	188.1	182.7	177.2	171.8	155.8	129.2	102.6	76.0	49.4	51.3	53.2
105°	261.7	267.2	272.8	278.5	255.7	204.6	153.5	102.4	51.3	53.4	55.5
107.5°	331.8	336.3	340.8	345.4	317.0	255.7	194.5	133.2	71.9	69.8	67.7
110°	377.0	381.0	384.8	388.8	363.7	309.6	255.6	201.5	147.3	128.7	110.0



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	419.7	423.1	426.6	430.1	425.2	411.8	398.5	385.1	371.7	303.5	235.2
115°	487.4	490.6	493.8	496.9	500.9	505.6	510.2	514.9	519.6	432.9	346.3
117.5°	548.6	552.2	555.7	559.3	562.6	565.9	569.1	572.3	575.5	554.5	533.6
120°	592.3	595.1	597.9	600.7	603.8	607.2	610.5	613.9	617.3	619.5	621.8
122.5°	630.2	633.1	636.1	639.1	642.4	646.0	649.7	653.4	657.0	658.4	659.7
125°	687.1	689.5	692.0	694.3	697.4	700.9	704.5	708.1	711.6	712.9	714.2
127.5°	739.4	742.1	744.8	747.5	750.1	752.8	755.4	758.1	760.8	762.7	764.6
130°	772.7	775.7	778.7	781.6	784.2	786.2	788.3	790.4	792.4	794.5	796.5
132.5°	806.0	808.5	811.0	813.6	815.9	817.9	820.0	822.0	824.1	825.9	827.6
135°	850.2	853.2	856.2	859.1	861.5	863.2	864.8	866.6	868.2	870.1	872.0
137.5°	893.6	895.6	897.8	899.8	901.8	903.8	905.7	907.6	909.5	911.3	913.1
140°	921.9	923.4	925.0	926.5	928.2	930.3	932.3	934.4	936.4	938.1	939.8
142.5°	946.0	947.4	948.7	950.1	952.0	954.3	956.6	959.0	961.4	962.9	964.4
145°	982.5	982.4	982.2	982.0	983.5	986.7	989.8	993.1	996.2	997.5	998.9
147.5°	1015.3	1014.5	1013.8	1013.1	1014.3	1017.5	1020.6	1023.7	1026.9	1027.9	1028.8
150°	1036.2	1034.9	1033.6	1032.3	1033.1	1036.1	1039.1	1042.1	1045.0	1046.2	1047.3
152.5°	1054.2	1052.7	1051.3	1049.9	1050.5	1053.4	1056.2	1059.1	1061.9	1063.0	1064.1
155°	1080.5	1078.8	1077.1	1075.4	1075.7	1077.9	1080.1	1082.4	1084.7	1085.8	1086.9
157.5°	1101.5	1100.0	1098.6	1097.2	1097.3	1098.8	1100.3	1101.9	1103.5	1104.8	1106.0
160°	1113.9	1112.7	1111.6	1110.5	1110.5	1111.6	1112.7	1113.9	1115.0	1116.1	1117.2
162.5°	1124.7	1123.5	1122.4	1121.3	1121.2	1122.1	1123.2	1124.1	1125.1	1126.3	1127.6
165°	1139.1	1138.0	1136.9	1135.8	1135.4	1136.0	1136.6	1137.2	1137.7	1139.0	1140.3
167.5°	1149.9	1148.7	1147.6	1146.5	1146.2	1146.8	1147.2	1147.8	1148.3	1149.6	1151.0
170°	1156.0	1154.8	1153.7	1152.6	1152.2	1152.6	1152.9	1153.3	1153.7	1155.0	1156.3
172.5°	1160.0	1158.9	1157.8	1156.7	1156.3	1156.7	1157.0	1157.4	1157.8	1159.0	1160.4
175°	1165.1	1163.7	1162.4	1161.1	1160.6	1161.0	1161.4	1161.7	1162.1	1163.5	1164.7
177.5°	1166.2	1165.1	1164.0	1163.0	1162.5	1162.7	1162.8	1163.0	1163.2	1164.2	1165.2
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	485.7	487.7	487.7	488.0	490.3	490.0	489.8
5°	516.8	519.9	520.2	523.5	525.6	524.9	522.9
7.5°	546.2	551.9	556.3	558.6	561.5	563.2	562.4
10°	569.6	577.8	582.9	586.3	590.4	593.5	592.4
12.5°	590.7	600.6	607.5	613.4	613.9	617.8	615.1
15°	623.8	634.1	635.3	639.5	643.0	642.6	642.8
17.5°	634.6	637.9	638.7	638.7	638.8	637.5	634.8
20°	630.7	629.5	626.5	624.1	620.0	619.4	615.8
22.5°	612.3	608.3	600.6	595.6	589.1	587.5	586.5
25°	576.1	567.2	555.0	543.3	540.0	533.8	535.5
27.5°	526.2	512.5	499.2	489.8	481.2	471.7	474.4
30°	491.3	475.8	457.1	442.7	433.5	424.5	422.9
32.5°	449.6	426.8	406.0	393.3	379.2	373.5	367.3
35°	377.6	355.4	334.7	316.9	306.7	298.7	291.5
37.5°	312.8	287.3	270.6	256.2	248.7	244.2	245.4
40°	272.7	250.3	238.1	227.1	220.2	217.1	217.8
42.5°	240.1	223.4	213.3	205.8	201.0	199.2	198.8
45°	203.2	193.8	185.5	181.3	178.9	176.9	175.6
47.5°	178.0	170.3	165.6	163.1	161.1	159.1	159.0
50°	162.9	157.8	154.6	151.9	150.3	148.9	150.1
52.5°	151.3	146.7	143.5	141.1	140.5	139.2	139.1
55°	134.3	130.6	128.3	126.1	125.1	124.4	123.4
57.5°	118.7	115.3	113.1	111.8	109.7	109.0	108.7
60°	107.6	104.9	102.7	100.9	100.1	98.6	98.6
62.5°	97.4	94.7	92.7	91.3	89.8	89.3	89.4
65°	82.6	80.4	78.4	77.0	76.7	75.6	76.0
67.5°	69.0	67.6	65.4	64.6	64.0	63.5	63.0
70°	59.9	58.5	57.4	56.3	55.8	55.8	55.8
72.5°	52.3	50.5	49.9	48.6	48.9	48.3	47.7
75°	40.5	39.4	38.9	38.3	37.5	37.5	37.5
77.5°	29.8	29.5	28.8	28.3	28.0	27.9	28.0
80°	23.1	22.8	22.5	22.5	22.1	21.9	21.6
82.5°	17.7	17.3	17.0	16.9	16.8	16.8	16.7
85°	10.1	9.7	9.7	9.9	9.5	9.5	9.7
87.5°	7.8	8.0	8.0	8.1	8.3	8.2	8.3
90°	19.6	20.6	21.2	21.6	22.0	22.3	22.7
92.5°	21.0	21.5	21.9	22.1	22.3	22.5	22.7
95°	35.6	36.6	37.0	36.8	36.6	36.4	36.2
97.5°	46.2	47.0	47.5	47.7	47.9	48.1	48.3
100°	52.5	54.0	54.9	55.3	55.7	56.1	56.4
102.5°	55.2	57.1	58.4	58.9	59.4	60.0	60.4
105°	57.5	59.6	61.0	61.8	62.5	63.2	64.0
107.5°	65.6	63.5	62.9	63.6	64.3	65.1	65.8
110°	91.3	72.5	63.5	64.2	65.0	65.8	66.5



TEST NUMBER: P331276-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	166.9	98.6	64.8	65.4	66.0	66.6	67.2
115°	259.7	173.0	122.9	109.5	96.0	82.5	69.1
117.5°	512.6	491.7	459.1	414.8	370.5	326.2	281.9
120°	624.0	626.3	614.7	589.5	564.2	538.9	513.7
122.5°	661.1	662.4	660.6	655.8	650.9	645.9	641.0
125°	715.5	716.8	717.8	718.4	718.9	719.5	720.0
127.5°	766.5	768.4	769.4	769.5	769.7	769.8	769.8
130°	798.6	800.7	801.6	801.5	801.2	801.1	800.9
132.5°	829.4	831.2	831.9	831.7	831.6	831.4	831.2
135°	873.9	875.7	876.5	876.1	875.7	875.4	875.0
137.5°	915.0	916.8	917.4	916.8	916.2	915.5	914.9
140°	941.5	943.2	943.6	942.6	941.7	940.7	939.8
142.5°	966.0	967.5	967.8	966.9	965.9	965.0	964.1
145°	1000.1	1001.5	1001.6	1000.8	999.8	998.9	997.9
147.5°	1029.8	1030.8	1030.9	1030.1	1029.3	1028.5	1027.7
150°	1048.5	1049.6	1049.6	1048.7	1047.8	1046.9	1045.9
152.5°	1065.3	1066.4	1066.4	1065.1	1063.9	1062.6	1061.4
155°	1088.1	1089.2	1088.9	1087.4	1086.0	1084.5	1083.0
157.5°	1107.3	1108.6	1108.5	1107.1	1105.6	1104.1	1102.6
160°	1118.3	1119.4	1119.4	1118.1	1116.7	1115.5	1114.1
162.5°	1128.9	1130.2	1130.0	1128.4	1126.8	1125.1	1123.6
165°	1141.6	1143.0	1143.0	1141.6	1140.3	1139.0	1137.7
167.5°	1152.2	1153.6	1153.3	1151.7	1150.0	1148.3	1146.6
170°	1157.6	1159.0	1158.7	1157.1	1155.4	1153.7	1152.0
172.5°	1161.7	1163.0	1162.8	1161.1	1159.4	1157.8	1156.0
175°	1166.1	1167.4	1167.1	1165.2	1163.3	1161.5	1159.6
177.5°	1166.3	1167.4	1167.2	1165.9	1164.5	1163.2	1161.8
180°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8

(END OF REPORT)