

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: P332103

Luminaire Tested: **S123DIW-S340D1030U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332103
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S340D1030U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5028.4 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

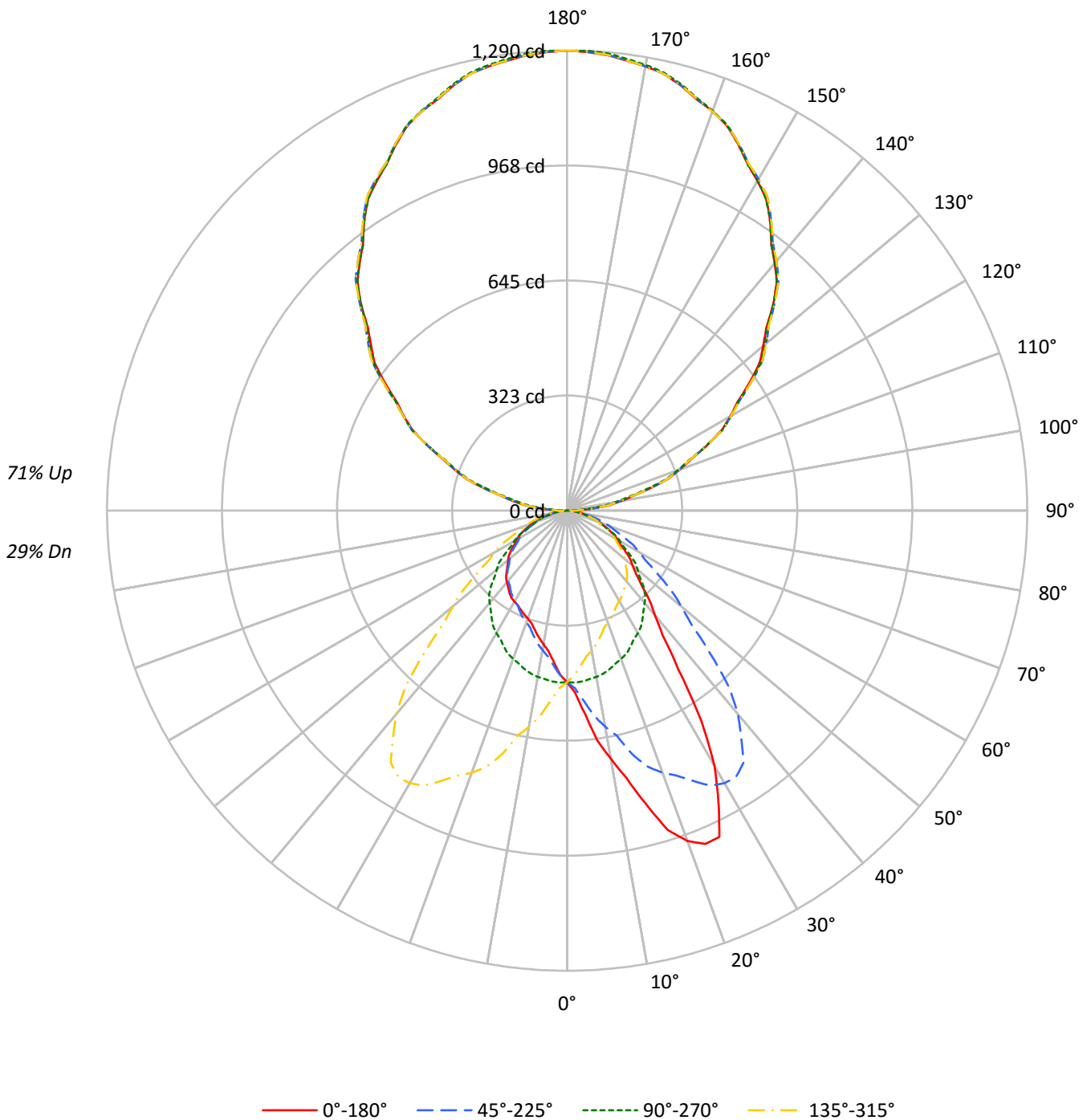
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

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	102	102	102	102	91	91	91	91	72	72	72	53	53	53	37	37	37	29				
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31	25				
2	85	78	72	67	76	70	65	61	55	52	49	42	39	37	29	28	27	21				
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23	18				
4	71	61	53	47	63	55	48	43	43	39	35	33	30	27	23	21	20	15				
5	65	54	46	40	58	49	42	37	39	34	30	29	26	24	21	19	17	13				
6	60	48	40	35	53	44	37	32	35	30	26	27	23	21	19	17	15	12				
7	55	43	36	30	49	39	33	28	31	27	23	24	21	18	17	15	13	11				
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	9				
9	47	36	29	24	43	32	26	22	26	21	18	20	17	14	15	12	11	8				
10	44	33	26	21	40	30	24	19	24	19	16	19	15	13	13	11	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5175	5175	5175	5175
5°	6172	5198	4606	5198
10°	7725	5172	4161	5172
15°	9475	5129	3874	5129
20°	11287	5065	3688	5065
25°	11986	4986	3646	4986
30°	10274	4928	3665	4928
35°	7144	4846	3704	4846
40°	5382	4749	3693	4749
45°	4468	4606	3646	4606
50°	4002	4315	3612	4315
55°	3742	4001	3567	4001
60°	3511	3670	3531	3670
65°	3298	3347	3418	3347
70°	3094	2977	3254	2977
75°	2770	2608	2986	2608
80°	2424	2139	2572	2139
85°	1902	1556	1729	1556



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	0.9
10°-20°	151.9	3.0
20°-30°	254.9	5.1
30°-40°	288.6	5.7
40°-50°	258.8	5.1
50°-60°	208.9	4.2
60°-70°	145.6	2.9
70°-80°	76.5	1.5
80°-90°	22.5	0.4
90°-100°	84.0	1.7
100°-110°	251.5	5.0
110°-120°	427.7	8.5
120°-130°	562.6	11.2
130°-140°	632.3	12.6
140°-150°	621.6	12.4
150°-160°	523.3	10.4
160°-170°	348.3	6.9
170°-180°	122.0	2.4
0°-30°	454.2	9.0
0°-40°	742.8	14.8
0°-60°	1210.5	24.1
0°-90°	1455.1	28.9
90°-120°	763.2	15.2
90°-150°	2579.7	51.3
90°-180°	3573.0	71.1
0°-180°	5028.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	481	481	481	481	481	
5°	571	481	426	481	571	59
15°	850	460	348	460	850	246
25°	1009	420	307	420	1009	443
35°	544	369	282	369	544	353
45°	294	303	240	303	294	232
55°	199	213	190	213	199	179
65°	130	131	134	131	130	129
75°	67	63	72	63	67	71
85°	15	13	14	13	15	19
90°	30	1	30	1	30	16
95°	79	60	79	60	79	81
105°	241	228	241	228	241	256
115°	432	431	432	431	432	427
125°	623	630	623	630	623	557
135°	817	818	817	818	817	628
145°	992	992	992	992	992	619
155°	1134	1136	1134	1136	1134	522
165°	1233	1237	1233	1237	1233	348
175°	1282	1287	1282	1287	1282	122
180°	1290	1290	1290	1290	1290	



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	510.3	509.9	509.0	509.7	508.2	506.2	506.0	504.1	498.7	498.4	496.9
5°	571.2	569.4	569.1	568.9	565.6	561.2	552.8	552.1	540.9	535.4	528.6
7.5°	650.2	651.1	647.7	644.8	634.8	628.2	619.2	607.7	594.0	580.0	570.8
10°	706.8	714.5	705.0	698.4	692.4	681.0	667.7	651.1	634.6	615.3	600.6
12.5°	767.6	771.3	769.4	763.3	753.9	736.5	713.0	694.7	679.5	647.3	634.3
15°	850.3	864.5	855.4	834.5	834.9	818.4	787.7	753.9	735.9	707.7	669.3
17.5°	938.5	940.2	936.4	918.9	907.3	884.5	856.1	823.8	787.4	753.3	712.5
20°	985.4	984.0	975.9	966.8	946.8	929.1	898.1	862.0	815.4	781.8	737.3
22.5°	1011.5	1009.2	1005.3	997.7	981.1	962.1	934.2	894.8	850.4	804.2	752.8
25°	1009.2	1012.2	1012.7	1010.6	1004.8	993.4	971.5	940.0	895.8	836.3	782.8
27.5°	917.9	922.2	934.6	945.7	958.0	970.6	968.9	953.3	920.5	869.2	803.7
30°	826.6	817.2	840.3	869.4	889.2	924.2	943.7	944.9	926.5	882.5	818.6
32.5°	699.8	710.1	720.3	756.1	799.4	838.6	877.6	908.9	912.5	883.2	827.4
35°	543.7	556.6	575.2	593.8	640.4	680.5	749.0	808.6	856.1	862.4	828.2
37.5°	438.2	444.5	456.3	475.0	505.4	553.0	605.9	681.3	750.2	801.4	803.6
40°	383.0	384.9	398.1	412.3	437.0	476.2	523.9	590.6	673.0	744.6	774.4
42.5°	341.6	345.7	351.4	365.0	384.7	414.1	458.5	513.6	589.2	671.5	729.8
45°	293.5	298.2	301.7	310.8	324.8	344.6	375.5	425.9	483.4	568.4	646.9
47.5°	261.8	262.1	264.7	271.6	281.1	296.0	317.9	350.2	403.0	472.0	552.6
50°	239.0	242.7	243.7	249.0	256.5	267.4	285.6	313.1	356.4	417.0	491.1
52.5°	223.0	224.1	226.7	230.6	237.1	245.6	261.4	282.9	316.9	368.6	436.7
55°	199.4	199.4	202.0	205.0	208.7	216.4	226.9	242.7	268.6	308.7	365.1
57.5°	177.6	178.8	180.6	181.5	184.7	189.8	198.5	210.6	229.8	260.7	305.5
60°	163.1	165.2	164.9	166.8	169.6	173.6	181.0	190.8	208.0	232.7	270.5
62.5°	150.4	150.3	150.2	152.5	155.2	159.0	163.9	172.3	187.0	208.9	241.0
65°	129.5	129.1	130.7	132.1	133.0	135.8	139.5	147.0	156.8	173.1	198.0
67.5°	111.0	109.6	110.5	111.0	112.6	114.8	118.3	122.9	130.6	143.7	162.5
70°	98.3	97.1	96.9	97.4	98.8	100.4	103.0	107.4	114.6	125.1	138.8
72.5°	85.3	84.5	84.4	85.5	86.1	87.2	89.0	93.0	98.8	106.7	119.5
75°	66.6	66.6	66.6	66.9	67.6	68.5	69.9	72.0	76.4	82.0	90.6
77.5°	49.9	49.9	49.6	49.6	50.6	51.0	51.3	53.3	55.8	59.5	65.8
80°	39.1	38.0	38.4	39.1	39.6	39.8	40.5	41.0	43.1	45.2	49.6
82.5°	29.1	28.1	28.2	29.3	29.4	29.6	30.3	30.9	31.7	33.6	36.0
85°	15.4	15.4	15.6	15.6	15.8	15.6	16.3	16.5	16.5	17.7	19.1
87.5°	11.7	11.2	11.3	11.4	11.1	11.2	11.2	11.2	11.2	11.2	10.8
90°	30.4	29.9	29.5	29.0	28.6	27.9	27.0	26.1	25.2	24.3	21.4
92.5°	40.9	41.2	41.5	41.7	42.0	41.8	41.1	40.3	39.6	38.9	37.2
95°	79.0	79.0	79.0	79.0	79.0	78.6	77.7	76.8	75.9	75.0	73.2
97.5°	121.6	121.7	121.8	121.8	121.9	121.5	120.4	119.4	118.4	117.3	116.0
100°	154.0	153.5	153.1	152.6	152.2	151.6	151.0	150.3	149.6	148.9	147.8
102.5°	187.2	187.3	187.4	187.5	187.6	187.3	186.6	185.9	185.3	184.6	183.1
105°	241.1	240.7	240.2	239.8	239.3	239.1	239.1	239.1	239.1	239.1	237.1
107.5°	297.2	297.5	297.8	298.1	298.3	298.1	297.4	296.7	295.9	295.2	294.4
110°	335.3	335.8	336.2	336.7	337.1	336.9	336.0	335.1	334.2	333.3	332.9



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	375.9	376.0	376.0	376.1	376.2	375.7	374.6	373.6	372.5	371.4	371.3
115°	431.6	431.8	432.0	432.3	432.5	432.5	432.3	432.0	431.8	431.6	432.0
117.5°	488.1	488.7	489.4	490.0	490.6	491.0	491.0	491.1	491.1	491.2	491.7
120°	527.8	528.3	528.7	529.2	529.6	530.0	530.2	530.4	530.6	530.9	532.0
122.5°	565.9	566.6	567.2	567.8	568.4	569.1	569.6	570.2	570.8	571.4	572.0
125°	623.1	624.0	624.9	625.8	626.7	627.6	628.5	629.4	630.3	631.2	631.6
127.5°	680.0	681.0	682.1	683.1	684.1	685.3	686.6	687.8	689.1	690.3	690.8
130°	717.3	718.9	720.4	722.0	723.6	724.8	725.7	726.6	727.5	728.4	729.1
132.5°	756.2	757.4	758.6	759.8	761.1	762.2	763.3	764.4	765.4	766.5	767.0
135°	816.6	817.0	817.5	817.9	818.4	819.0	819.9	820.8	821.7	822.6	822.9
137.5°	869.9	870.7	871.6	872.4	873.3	874.2	875.1	876.1	877.0	878.0	877.4
140°	904.7	906.3	907.9	909.4	911.0	911.9	912.1	912.4	912.6	912.8	912.6
142.5°	940.4	941.6	942.8	944.0	945.2	946.0	946.2	946.4	946.6	946.9	946.5
145°	991.8	992.7	993.6	994.5	995.4	996.0	996.2	996.5	996.7	996.9	996.2
147.5°	1037.6	1039.0	1040.3	1041.7	1043.0	1043.7	1043.7	1043.7	1043.7	1043.7	1043.1
150°	1066.8	1068.2	1069.5	1070.9	1072.2	1072.9	1072.9	1072.9	1072.9	1072.9	1072.4
152.5°	1095.2	1096.3	1097.5	1098.7	1099.9	1100.3	1099.9	1099.5	1099.2	1098.8	1098.6
155°	1133.7	1135.3	1136.8	1138.4	1140.0	1140.3	1139.4	1138.5	1137.6	1136.7	1136.5
157.5°	1168.7	1170.0	1171.3	1172.5	1173.8	1173.9	1173.0	1172.0	1171.1	1170.1	1170.0
160°	1191.4	1192.3	1193.2	1194.1	1195.0	1194.9	1193.8	1192.7	1191.5	1190.4	1190.4
162.5°	1208.4	1209.9	1211.3	1212.8	1214.2	1214.4	1213.2	1212.1	1211.0	1209.9	1209.7
165°	1233.0	1234.5	1236.1	1237.7	1239.3	1239.4	1238.0	1236.7	1235.3	1234.0	1234.0
167.5°	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4	1258.0	1256.6	1255.2	1253.8	1253.7
170°	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7	1269.1	1267.5	1265.9	1264.4	1264.4
172.5°	1272.5	1274.0	1275.6	1277.2	1278.8	1278.9	1277.5	1276.1	1274.7	1273.3	1273.3
175°	1281.6	1283.2	1284.7	1286.3	1287.9	1288.0	1286.7	1285.3	1284.0	1282.6	1282.6
177.5°	1286.5	1287.7	1289.0	1290.2	1291.5	1291.6	1290.5	1289.4	1288.3	1287.3	1287.3
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	495.7	494.3	492.8	490.2	487.9	484.8	483.8	482.7	479.3	476.4	474.1
5°	526.0	520.4	512.3	504.8	498.8	490.6	486.0	481.1	474.1	467.8	462.7
7.5°	557.7	546.7	534.0	520.4	507.6	495.3	485.4	476.5	466.7	457.5	450.2
10°	582.9	567.0	549.3	530.2	513.9	498.1	484.8	473.2	460.6	449.6	440.5
12.5°	611.6	588.1	563.7	540.5	521.2	499.2	483.1	468.3	454.0	440.9	430.7
15°	645.5	615.7	586.8	554.9	525.6	498.1	479.0	460.3	443.8	430.3	417.2
17.5°	676.5	642.7	604.6	565.8	530.4	497.8	471.1	450.0	429.3	412.8	399.8
20°	694.0	655.6	612.5	572.2	533.0	496.7	467.3	442.2	419.8	402.3	387.7
22.5°	709.1	664.1	619.5	576.4	532.8	493.7	460.4	434.5	410.3	393.2	377.6
25°	724.8	670.9	626.2	575.7	527.0	486.4	449.2	419.8	395.6	375.5	359.5
27.5°	738.2	670.5	617.4	563.0	517.7	477.1	437.3	405.8	380.1	358.3	342.0
30°	747.1	671.4	608.3	554.5	508.8	466.9	428.2	396.5	369.5	347.4	332.0
32.5°	752.7	670.8	599.9	542.5	494.6	457.5	418.3	385.5	357.7	336.0	321.2
35°	756.0	666.7	585.4	517.9	471.8	435.6	402.8	368.8	339.7	319.4	302.6
37.5°	749.4	658.1	568.7	494.1	443.6	408.1	380.4	351.5	323.6	301.3	286.8
40°	739.2	652.5	555.6	477.3	424.2	390.0	366.5	338.0	310.5	289.3	275.8
42.5°	719.6	641.2	541.3	458.7	404.1	369.9	348.2	324.4	298.4	278.5	265.0
45°	671.9	616.4	519.7	430.8	374.4	339.0	319.9	302.6	279.1	259.8	248.1
47.5°	605.6	579.2	488.6	401.3	343.3	309.3	289.4	275.6	258.4	242.7	231.6
50°	559.6	548.6	467.6	381.1	322.7	289.3	270.2	257.7	245.3	229.7	219.5
52.5°	506.5	513.2	443.0	360.3	301.6	268.8	250.9	240.9	229.7	216.8	207.9
55°	431.7	456.1	400.5	325.2	270.2	239.0	222.0	213.2	206.6	197.1	189.4
57.5°	361.7	392.8	354.5	289.1	239.4	212.5	196.2	186.6	182.4	177.4	171.3
60°	320.1	350.8	321.7	264.9	218.8	193.1	178.7	170.5	166.3	162.8	157.7
62.5°	283.0	314.1	289.7	240.3	198.4	174.7	162.1	154.1	150.9	149.1	144.7
65°	232.0	258.8	242.5	202.0	169.4	148.4	137.0	131.4	128.4	127.7	124.9
67.5°	188.8	209.2	197.4	167.5	141.9	123.8	114.1	109.3	107.0	106.7	104.6
70°	160.5	179.6	170.5	143.5	121.4	107.2	98.8	94.6	93.2	93.0	91.8
72.5°	138.5	151.8	144.6	122.1	105.0	92.1	85.9	81.5	80.0	80.3	79.5
75°	102.5	112.5	108.3	92.7	79.0	70.6	65.5	62.7	61.3	62.0	61.0
77.5°	73.8	80.1	76.3	65.5	57.0	51.0	47.2	45.5	44.2	44.2	43.8
80°	55.7	59.4	57.3	50.8	43.8	38.7	35.6	34.5	33.8	33.5	33.3
82.5°	39.7	42.8	40.3	35.9	31.1	28.0	26.3	24.8	24.3	24.4	24.2
85°	20.0	21.2	20.3	17.5	15.6	14.2	13.3	12.6	12.1	12.3	11.9
87.5°	10.6	10.2	9.0	7.8	7.0	5.9	5.5	4.7	4.8	5.2	5.5
90°	18.5	15.5	12.6	10.0	7.8	5.5	3.3	1.0	3.3	5.5	7.8
92.5°	35.6	33.9	32.2	30.6	29.1	27.6	26.0	24.5	26.0	27.6	29.1
95°	71.4	69.6	67.8	66.1	64.5	62.9	61.3	59.8	61.3	62.9	64.5
97.5°	114.7	113.4	112.1	110.9	109.7	108.5	107.3	106.2	107.3	108.5	109.7
100°	146.7	145.6	144.4	143.2	141.8	140.5	139.1	137.8	139.1	140.5	141.8
102.5°	181.6	180.1	178.6	177.5	176.7	175.9	175.1	174.3	175.1	175.9	176.7
105°	235.0	233.0	231.0	229.8	229.3	228.9	228.4	228.0	228.4	228.9	229.3
107.5°	293.6	292.8	292.0	291.4	291.2	290.9	290.6	290.4	290.6	290.9	291.2
110°	332.4	332.0	331.5	331.1	330.6	330.2	329.7	329.3	329.7	330.2	330.6



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	371.2	371.1	371.0	370.9	370.6	370.3	370.1	369.8	370.1	370.3	370.6
115°	432.5	432.9	433.4	433.3	432.6	431.9	431.2	430.6	431.2	431.9	432.6
117.5°	492.3	492.9	493.5	493.6	493.1	492.7	492.2	491.8	492.2	492.7	493.1
120°	533.1	534.2	535.4	535.3	533.9	532.6	531.2	529.9	531.2	532.6	533.9
122.5°	572.6	573.2	573.7	573.5	572.5	571.6	570.6	569.6	570.6	571.6	572.5
125°	632.1	632.5	633.0	632.9	632.2	631.5	630.8	630.2	630.8	631.5	632.2
127.5°	691.3	691.8	692.3	691.8	690.4	689.0	687.5	686.1	687.5	689.0	690.4
130°	729.8	730.5	731.1	730.6	728.8	727.0	725.2	723.4	725.2	727.0	728.8
132.5°	767.5	768.0	768.5	767.9	766.1	764.2	762.4	760.6	762.4	764.2	766.1
135°	823.1	823.3	823.5	823.0	821.6	820.3	818.9	817.6	818.9	820.3	821.6
137.5°	876.8	876.2	875.6	874.8	873.6	872.5	871.4	870.3	871.4	872.5	873.6
140°	912.4	912.1	911.9	911.2	910.1	909.0	907.9	906.7	907.9	909.0	910.1
142.5°	946.0	945.6	945.2	944.5	943.3	942.2	941.1	940.0	941.1	942.2	943.3
145°	995.6	994.9	994.2	993.6	993.2	992.7	992.3	991.8	992.3	992.7	993.2
147.5°	1042.5	1041.8	1041.2	1040.5	1039.7	1038.8	1038.0	1037.2	1038.0	1038.8	1039.7
150°	1072.0	1071.5	1071.1	1070.6	1070.2	1069.7	1069.3	1068.8	1069.3	1069.7	1070.2
152.5°	1098.3	1098.0	1097.7	1097.3	1096.7	1096.0	1095.4	1094.8	1095.4	1096.0	1096.7
155°	1136.3	1136.0	1135.8	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7
157.5°	1169.8	1169.6	1169.4	1169.5	1169.7	1170.0	1170.3	1170.6	1170.3	1170.0	1169.7
160°	1190.4	1190.4	1190.4	1190.6	1191.1	1191.5	1192.0	1192.4	1192.0	1191.5	1191.1
162.5°	1209.5	1209.3	1209.1	1209.4	1210.0	1210.6	1211.3	1211.9	1211.3	1210.6	1210.0
165°	1234.0	1234.0	1234.0	1234.3	1235.0	1235.7	1236.3	1237.0	1236.3	1235.7	1235.0
167.5°	1253.5	1253.3	1253.1	1253.5	1254.4	1255.3	1256.2	1257.1	1256.2	1255.3	1254.4
170°	1264.4	1264.4	1264.4	1264.8	1265.7	1266.6	1267.5	1268.4	1267.5	1266.6	1265.7
172.5°	1273.3	1273.3	1273.3	1273.7	1274.6	1275.5	1276.4	1277.3	1276.4	1275.5	1274.6
175°	1282.6	1282.6	1282.6	1283.1	1284.0	1284.9	1285.8	1286.7	1285.8	1284.9	1284.0
177.5°	1287.3	1287.3	1287.3	1287.6	1288.3	1289.1	1289.8	1290.5	1289.8	1289.1	1288.3
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	472.8	471.5	469.7	466.9	464.6	461.1	461.1	461.6	461.6	461.5	461.1
5°	458.5	455.0	450.8	445.9	440.8	435.6	434.7	432.8	431.5	430.5	429.4
7.5°	443.3	437.1	431.0	424.2	417.9	412.8	409.2	406.2	404.3	402.2	400.7
10°	433.1	425.4	418.2	411.0	403.0	396.7	392.8	390.0	387.9	386.0	385.1
12.5°	421.0	412.2	404.2	397.3	388.7	382.2	378.4	377.1	374.7	370.7	368.7
15°	403.3	395.1	385.6	375.1	370.9	363.0	358.5	356.4	355.0	352.0	351.1
17.5°	388.1	377.5	366.7	358.9	351.1	344.7	342.2	339.6	337.8	335.3	334.5
20°	376.0	366.5	356.7	348.3	340.1	333.1	331.0	329.2	327.3	326.2	325.2
22.5°	363.7	354.2	346.0	338.2	329.5	324.9	322.7	320.6	319.3	318.5	317.6
25°	346.4	338.0	328.9	322.0	315.0	311.9	310.5	309.4	308.4	307.3	307.0
27.5°	331.0	321.8	314.5	307.9	302.9	300.4	299.0	298.5	298.7	299.1	299.4
30°	319.4	311.0	305.0	299.4	294.7	292.4	292.1	292.1	293.1	293.3	293.8
32.5°	308.8	301.9	295.8	290.4	286.9	285.3	286.2	286.2	286.9	287.5	288.4
35°	293.3	287.2	282.6	277.9	274.9	275.6	276.1	276.5	277.7	279.1	280.0
37.5°	278.5	273.3	268.4	264.8	263.4	264.6	265.8	266.7	268.1	269.2	270.1
40°	267.9	263.9	259.3	256.0	256.5	257.2	258.1	259.3	260.5	261.2	262.1
42.5°	258.0	253.9	250.3	247.6	248.3	249.2	249.7	250.3	251.7	253.0	253.5
45°	243.0	239.7	236.5	234.8	235.3	235.8	236.2	236.9	238.1	239.0	239.3
47.5°	226.1	223.8	221.6	220.0	220.8	220.6	221.2	222.7	223.0	223.6	224.9
50°	215.3	213.2	210.6	210.1	210.1	210.1	210.4	212.2	212.2	213.2	214.1
52.5°	203.3	202.0	200.4	199.5	199.1	199.1	200.1	201.0	201.4	202.7	203.7
55°	185.7	184.3	182.9	182.2	181.7	182.2	184.0	184.5	185.7	186.4	187.1
57.5°	167.3	166.2	165.1	164.7	164.6	165.2	166.2	167.6	167.9	170.1	171.1
60°	155.2	153.5	152.6	152.6	152.1	154.2	153.8	156.1	156.6	158.0	159.6
62.5°	142.7	140.5	140.1	140.1	140.8	141.4	142.0	143.0	144.3	146.0	147.3
65°	122.5	121.4	123.0	122.8	122.3	123.7	123.7	124.9	126.3	127.9	130.5
67.5°	103.5	102.9	103.0	103.0	103.7	104.5	105.2	106.2	107.9	109.6	111.3
70°	90.6	91.3	90.2	91.1	91.8	92.0	92.5	93.9	95.7	96.9	98.8
72.5°	78.1	78.1	78.2	78.6	79.3	79.7	80.2	81.8	83.8	84.8	86.3
75°	60.1	59.9	60.6	60.6	61.7	62.2	62.7	63.4	65.2	66.6	67.8
77.5°	43.9	44.2	44.0	44.8	44.5	44.6	46.0	46.7	46.9	49.7	50.3
80°	33.1	33.5	33.8	34.0	34.2	33.8	35.4	36.1	36.1	37.7	38.9
82.5°	23.8	24.0	24.6	24.9	24.9	25.4	25.5	26.0	26.6	27.3	28.8
85°	11.9	12.6	12.8	12.6	12.8	12.3	13.0	13.3	13.5	13.5	13.5
87.5°	5.7	6.4	6.8	7.6	8.0	8.8	9.0	8.8	8.9	9.7	9.1
90°	10.0	12.6	15.5	18.5	21.4	24.3	25.2	26.1	27.0	27.9	28.6
92.5°	30.6	32.2	33.9	35.6	37.2	38.9	39.6	40.3	41.1	41.8	42.0
95°	66.1	67.8	69.6	71.4	73.2	75.0	75.9	76.8	77.7	78.6	79.0
97.5°	110.9	112.1	113.4	114.7	116.0	117.3	118.4	119.4	120.4	121.5	121.9
100°	143.2	144.4	145.6	146.7	147.8	148.9	149.6	150.3	151.0	151.6	152.2
102.5°	177.5	178.6	180.1	181.6	183.1	184.6	185.3	185.9	186.6	187.3	187.6
105°	229.8	231.0	233.0	235.0	237.1	239.1	239.1	239.1	239.1	239.1	239.3
107.5°	291.4	292.0	292.8	293.6	294.4	295.2	295.9	296.7	297.4	298.1	298.3
110°	331.1	331.5	332.0	332.4	332.9	333.3	334.2	335.1	336.0	336.9	337.1



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	370.9	371.0	371.1	371.2	371.3	371.4	372.5	373.6	374.6	375.7	376.2
115°	433.3	433.4	432.9	432.5	432.0	431.6	431.8	432.0	432.3	432.5	432.5
117.5°	493.6	493.5	492.9	492.3	491.7	491.2	491.1	491.1	491.0	491.0	490.6
120°	535.3	535.4	534.2	533.1	532.0	530.9	530.6	530.4	530.2	530.0	529.6
122.5°	573.5	573.7	573.2	572.6	572.0	571.4	570.8	570.2	569.6	569.1	568.4
125°	632.9	633.0	632.5	632.1	631.6	631.2	630.3	629.4	628.5	627.6	626.7
127.5°	691.8	692.3	691.8	691.3	690.8	690.3	689.1	687.8	686.6	685.3	684.1
130°	730.6	731.1	730.5	729.8	729.1	728.4	727.5	726.6	725.7	724.8	723.6
132.5°	767.9	768.5	768.0	767.5	767.0	766.5	765.4	764.4	763.3	762.2	761.1
135°	823.0	823.5	823.3	823.1	822.9	822.6	821.7	820.8	819.9	819.0	818.4
137.5°	874.8	875.6	876.2	876.8	877.4	878.0	877.0	876.1	875.1	874.2	873.3
140°	911.2	911.9	912.1	912.4	912.6	912.8	912.6	912.4	912.1	911.9	911.0
142.5°	944.5	945.2	945.6	946.0	946.5	946.9	946.6	946.4	946.2	946.0	945.2
145°	993.6	994.2	994.9	995.6	996.2	996.9	996.7	996.5	996.2	996.0	995.4
147.5°	1040.5	1041.2	1041.8	1042.5	1043.1	1043.7	1043.7	1043.7	1043.7	1043.7	1043.0
150°	1070.6	1071.1	1071.5	1072.0	1072.4	1072.9	1072.9	1072.9	1072.9	1072.9	1072.2
152.5°	1097.3	1097.7	1098.0	1098.3	1098.6	1098.8	1099.2	1099.5	1099.9	1100.3	1099.9
155°	1135.7	1135.8	1136.0	1136.3	1136.5	1136.7	1137.6	1138.5	1139.4	1140.3	1140.0
157.5°	1169.5	1169.4	1169.6	1169.8	1170.0	1170.1	1171.1	1172.0	1173.0	1173.9	1173.8
160°	1190.6	1190.4	1190.4	1190.4	1190.4	1190.4	1191.5	1192.7	1193.8	1194.9	1195.0
162.5°	1209.4	1209.1	1209.3	1209.5	1209.7	1209.9	1211.0	1212.1	1213.2	1214.4	1214.2
165°	1234.3	1234.0	1234.0	1234.0	1234.0	1234.0	1235.3	1236.7	1238.0	1239.4	1239.3
167.5°	1253.5	1253.1	1253.3	1253.5	1253.7	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4
170°	1264.8	1264.4	1264.4	1264.4	1264.4	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7
172.5°	1273.7	1273.3	1273.3	1273.3	1273.3	1273.3	1274.7	1276.1	1277.5	1278.9	1278.8
175°	1283.1	1282.6	1282.6	1282.6	1282.6	1282.6	1284.0	1285.3	1286.7	1288.0	1287.9
177.5°	1287.6	1287.3	1287.3	1287.3	1287.3	1287.3	1288.3	1289.4	1290.5	1291.6	1291.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	459.8	459.6	460.9	460.0	460.9	459.6	459.8	461.1	461.5	461.6	461.6
5°	428.0	428.7	426.3	426.3	426.3	428.7	428.0	429.4	430.5	431.5	432.8
7.5°	399.6	398.6	398.7	397.4	398.7	398.6	399.6	400.7	402.2	404.3	406.2
10°	382.3	380.9	380.4	380.7	380.4	380.9	382.3	385.1	386.0	387.9	390.0
12.5°	367.9	367.7	364.6	364.6	364.6	367.7	367.9	368.7	370.7	374.7	377.1
15°	351.1	346.7	346.2	347.6	346.2	346.7	351.1	351.1	352.0	355.0	356.4
17.5°	334.2	331.8	332.0	331.3	332.0	331.8	334.2	334.5	335.3	337.8	339.6
20°	325.2	323.8	323.6	322.0	323.6	323.8	325.2	325.2	326.2	327.3	329.2
22.5°	317.0	316.6	316.7	314.9	316.7	316.6	317.0	317.6	318.5	319.3	320.6
25°	306.8	308.0	307.0	307.0	307.0	308.0	306.8	307.0	307.3	308.4	309.4
27.5°	299.9	299.9	299.4	299.4	299.4	299.9	299.9	299.4	299.1	298.7	298.5
30°	294.7	294.5	294.9	294.9	294.9	294.5	294.7	293.8	293.3	293.1	292.1
32.5°	289.5	289.8	289.9	290.1	289.9	289.8	289.5	288.4	287.5	286.9	286.2
35°	281.4	281.7	282.4	281.9	282.4	281.7	281.4	280.0	279.1	277.7	276.5
37.5°	270.5	271.6	271.4	271.7	271.4	271.6	270.5	270.1	269.2	268.1	266.7
40°	262.3	263.0	262.8	262.8	262.8	263.0	262.3	262.1	261.2	260.5	259.3
42.5°	253.9	254.4	253.8	253.5	253.8	254.4	253.9	253.5	253.0	251.7	250.3
45°	240.2	239.7	240.4	239.5	240.4	239.7	240.2	239.3	239.0	238.1	236.9
47.5°	224.8	225.3	225.5	226.2	225.5	225.3	224.8	224.9	223.6	223.0	222.7
50°	214.6	216.0	216.0	215.7	216.0	216.0	214.6	214.1	213.2	212.2	212.2
52.5°	204.5	205.1	206.1	206.0	206.1	205.1	204.5	203.7	202.7	201.4	201.0
55°	188.9	189.4	189.9	190.1	189.9	189.4	188.9	187.1	186.4	185.7	184.5
57.5°	172.8	172.6	173.7	174.1	173.7	172.6	172.8	171.1	170.1	167.9	167.6
60°	161.4	161.4	163.3	164.0	163.3	161.4	161.4	159.6	158.0	156.6	156.1
62.5°	149.3	150.1	151.9	151.0	151.9	150.1	149.3	147.3	146.0	144.3	143.0
65°	131.6	133.5	133.3	134.2	133.3	133.5	131.6	130.5	127.9	126.3	124.9
67.5°	113.1	114.3	116.0	116.1	116.0	114.3	113.1	111.3	109.6	107.9	106.2
70°	100.6	101.8	102.7	103.4	102.7	101.8	100.6	98.8	96.9	95.7	93.9
72.5°	88.5	89.1	91.4	90.4	91.4	89.1	88.5	86.3	84.8	83.8	81.8
75°	69.4	71.1	72.5	71.8	72.5	71.1	69.4	67.8	66.6	65.2	63.4
77.5°	51.3	53.0	53.6	53.0	53.6	53.0	51.3	50.3	49.7	46.9	46.7
80°	40.5	40.3	41.7	41.5	41.7	40.3	40.5	38.9	37.7	36.1	36.1
82.5°	29.7	29.5	30.1	30.3	30.1	29.5	29.7	28.8	27.3	26.6	26.0
85°	14.4	15.1	14.2	14.0	14.2	15.1	14.4	13.5	13.5	13.5	13.3
87.5°	9.2	9.3	9.2	9.1	9.2	9.3	9.2	9.1	9.7	8.9	8.8
90°	29.0	29.5	29.9	30.4	29.9	29.5	29.0	28.6	27.9	27.0	26.1
92.5°	41.7	41.5	41.2	40.9	41.2	41.5	41.7	42.0	41.8	41.1	40.3
95°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	78.6	77.7	76.8
97.5°	121.8	121.8	121.7	121.6	121.7	121.8	121.8	121.9	121.5	120.4	119.4
100°	152.6	153.1	153.5	154.0	153.5	153.1	152.6	152.2	151.6	151.0	150.3
102.5°	187.5	187.4	187.3	187.2	187.3	187.4	187.5	187.6	187.3	186.6	185.9
105°	239.8	240.2	240.7	241.1	240.7	240.2	239.8	239.3	239.1	239.1	239.1
107.5°	298.1	297.8	297.5	297.2	297.5	297.8	298.1	298.3	298.1	297.4	296.7
110°	336.7	336.2	335.8	335.3	335.8	336.2	336.7	337.1	336.9	336.0	335.1



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	376.1	376.0	376.0	375.9	376.0	376.0	376.1	376.2	375.7	374.6	373.6
115°	432.3	432.0	431.8	431.6	431.8	432.0	432.3	432.5	432.5	432.3	432.0
117.5°	490.0	489.4	488.7	488.1	488.7	489.4	490.0	490.6	491.0	491.0	491.1
120°	529.2	528.7	528.3	527.8	528.3	528.7	529.2	529.6	530.0	530.2	530.4
122.5°	567.8	567.2	566.6	565.9	566.6	567.2	567.8	568.4	569.1	569.6	570.2
125°	625.8	624.9	624.0	623.1	624.0	624.9	625.8	626.7	627.6	628.5	629.4
127.5°	683.1	682.1	681.0	680.0	681.0	682.1	683.1	684.1	685.3	686.6	687.8
130°	722.0	720.4	718.9	717.3	718.9	720.4	722.0	723.6	724.8	725.7	726.6
132.5°	759.8	758.6	757.4	756.2	757.4	758.6	759.8	761.1	762.2	763.3	764.4
135°	817.9	817.5	817.0	816.6	817.0	817.5	817.9	818.4	819.0	819.9	820.8
137.5°	872.4	871.6	870.7	869.9	870.7	871.6	872.4	873.3	874.2	875.1	876.1
140°	909.4	907.9	906.3	904.7	906.3	907.9	909.4	911.0	911.9	912.1	912.4
142.5°	944.0	942.8	941.6	940.4	941.6	942.8	944.0	945.2	946.0	946.2	946.4
145°	994.5	993.6	992.7	991.8	992.7	993.6	994.5	995.4	996.0	996.2	996.5
147.5°	1041.7	1040.3	1039.0	1037.6	1039.0	1040.3	1041.7	1043.0	1043.7	1043.7	1043.7
150°	1070.9	1069.5	1068.2	1066.8	1068.2	1069.5	1070.9	1072.2	1072.9	1072.9	1072.9
152.5°	1098.7	1097.5	1096.3	1095.2	1096.3	1097.5	1098.7	1099.9	1100.3	1099.9	1099.5
155°	1138.4	1136.8	1135.3	1133.7	1135.3	1136.8	1138.4	1140.0	1140.3	1139.4	1138.5
157.5°	1172.5	1171.3	1170.0	1168.7	1170.0	1171.3	1172.5	1173.8	1173.9	1173.0	1172.0
160°	1194.1	1193.2	1192.3	1191.4	1192.3	1193.2	1194.1	1195.0	1194.9	1193.8	1192.7
162.5°	1212.8	1211.3	1209.9	1208.4	1209.9	1211.3	1212.8	1214.2	1214.4	1213.2	1212.1
165°	1237.7	1236.1	1234.5	1233.0	1234.5	1236.1	1237.7	1239.3	1239.4	1238.0	1236.7
167.5°	1258.0	1256.6	1255.2	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4	1258.0	1256.6
170°	1269.1	1267.5	1265.9	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7	1269.1	1267.5
172.5°	1277.2	1275.6	1274.0	1272.5	1274.0	1275.6	1277.2	1278.8	1278.9	1277.5	1276.1
175°	1286.3	1284.7	1283.2	1281.6	1283.2	1284.7	1286.3	1287.9	1288.0	1286.7	1285.3
177.5°	1290.2	1289.0	1287.7	1286.5	1287.7	1289.0	1290.2	1291.5	1291.6	1290.5	1289.4
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	461.1	461.1	464.6	466.9	469.7	471.5	472.8	474.1	476.4	479.3	482.7
5°	434.7	435.6	440.8	445.9	450.8	455.0	458.5	462.7	467.8	474.1	481.1
7.5°	409.2	412.8	417.9	424.2	431.0	437.1	443.3	450.2	457.5	466.7	476.5
10°	392.8	396.7	403.0	411.0	418.2	425.4	433.1	440.5	449.6	460.6	473.2
12.5°	378.4	382.2	388.7	397.3	404.2	412.2	421.0	430.7	440.9	454.0	468.3
15°	358.5	363.0	370.9	375.1	385.6	395.1	403.3	417.2	430.3	443.8	460.3
17.5°	342.2	344.7	351.1	358.9	366.7	377.5	388.1	399.8	412.8	429.3	450.0
20°	331.0	333.1	340.1	348.3	356.7	366.5	376.0	387.7	402.3	419.8	442.2
22.5°	322.7	324.9	329.5	338.2	346.0	354.2	363.7	377.6	393.2	410.3	434.5
25°	310.5	311.9	315.0	322.0	328.9	338.0	346.4	359.5	375.5	395.6	419.8
27.5°	299.0	300.4	302.9	307.9	314.5	321.8	331.0	342.0	358.3	380.1	405.8
30°	292.1	292.4	294.7	299.4	305.0	311.0	319.4	332.0	347.4	369.5	396.5
32.5°	286.2	285.3	286.9	290.4	295.8	301.9	308.8	321.2	336.0	357.7	385.5
35°	276.1	275.6	274.9	277.9	282.6	287.2	293.3	302.6	319.4	339.7	368.8
37.5°	265.8	264.6	263.4	264.8	268.4	273.3	278.5	286.8	301.3	323.6	351.5
40°	258.1	257.2	256.5	256.0	259.3	263.9	267.9	275.8	289.3	310.5	338.0
42.5°	249.7	249.2	248.3	247.6	250.3	253.9	258.0	265.0	278.5	298.4	324.4
45°	236.2	235.8	235.3	234.8	236.5	239.7	243.0	248.1	259.8	279.1	302.6
47.5°	221.2	220.6	220.8	220.0	221.6	223.8	226.1	231.6	242.7	258.4	275.6
50°	210.4	210.1	210.1	210.1	210.6	213.2	215.3	219.5	229.7	245.3	257.7
52.5°	200.1	199.1	199.1	199.5	200.4	202.0	203.3	207.9	216.8	229.7	240.9
55°	184.0	182.2	181.7	182.2	182.9	184.3	185.7	189.4	197.1	206.6	213.2
57.5°	166.2	165.2	164.6	164.7	165.1	166.2	167.3	171.3	177.4	182.4	186.6
60°	153.8	154.2	152.1	152.6	152.6	153.5	155.2	157.7	162.8	166.3	170.5
62.5°	142.0	141.4	140.8	140.1	140.1	140.5	142.7	144.7	149.1	150.9	154.1
65°	123.7	123.7	122.3	122.8	123.0	121.4	122.5	124.9	127.7	128.4	131.4
67.5°	105.2	104.5	103.7	103.0	103.0	102.9	103.5	104.6	106.7	107.0	109.3
70°	92.5	92.0	91.8	91.1	90.2	91.3	90.6	91.8	93.0	93.2	94.6
72.5°	80.2	79.7	79.3	78.6	78.2	78.1	78.1	79.5	80.3	80.0	81.5
75°	62.7	62.2	61.7	60.6	60.6	59.9	60.1	61.0	62.0	61.3	62.7
77.5°	46.0	44.6	44.5	44.8	44.0	44.2	43.9	43.8	44.2	44.2	45.5
80°	35.4	33.8	34.2	34.0	33.8	33.5	33.1	33.3	33.5	33.8	34.5
82.5°	25.5	25.4	24.9	24.9	24.6	24.0	23.8	24.2	24.4	24.3	24.8
85°	13.0	12.3	12.8	12.6	12.8	12.6	11.9	11.9	12.3	12.1	12.6
87.5°	9.0	8.8	8.0	7.6	6.8	6.4	5.7	5.5	5.2	4.8	4.7
90°	25.2	24.3	21.4	18.5	15.5	12.6	10.0	7.8	5.5	3.3	1.0
92.5°	39.6	38.9	37.2	35.6	33.9	32.2	30.6	29.1	27.6	26.0	24.5
95°	75.9	75.0	73.2	71.4	69.6	67.8	66.1	64.5	62.9	61.3	59.8
97.5°	118.4	117.3	116.0	114.7	113.4	112.1	110.9	109.7	108.5	107.3	106.2
100°	149.6	148.9	147.8	146.7	145.6	144.4	143.2	141.8	140.5	139.1	137.8
102.5°	185.3	184.6	183.1	181.6	180.1	178.6	177.5	176.7	175.9	175.1	174.3
105°	239.1	239.1	237.1	235.0	233.0	231.0	229.8	229.3	228.9	228.4	228.0
107.5°	295.9	295.2	294.4	293.6	292.8	292.0	291.4	291.2	290.9	290.6	290.4
110°	334.2	333.3	332.9	332.4	332.0	331.5	331.1	330.6	330.2	329.7	329.3



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	372.5	371.4	371.3	371.2	371.1	371.0	370.9	370.6	370.3	370.1	369.8
115°	431.8	431.6	432.0	432.5	432.9	433.4	433.3	432.6	431.9	431.2	430.6
117.5°	491.1	491.2	491.7	492.3	492.9	493.5	493.6	493.1	492.7	492.2	491.8
120°	530.6	530.9	532.0	533.1	534.2	535.4	535.3	533.9	532.6	531.2	529.9
122.5°	570.8	571.4	572.0	572.6	573.2	573.7	573.5	572.5	571.6	570.6	569.6
125°	630.3	631.2	631.6	632.1	632.5	633.0	632.9	632.2	631.5	630.8	630.2
127.5°	689.1	690.3	690.8	691.3	691.8	692.3	691.8	690.4	689.0	687.5	686.1
130°	727.5	728.4	729.1	729.8	730.5	731.1	730.6	728.8	727.0	725.2	723.4
132.5°	765.4	766.5	767.0	767.5	768.0	768.5	767.9	766.1	764.2	762.4	760.6
135°	821.7	822.6	822.9	823.1	823.3	823.5	823.0	821.6	820.3	818.9	817.6
137.5°	877.0	878.0	877.4	876.8	876.2	875.6	874.8	873.6	872.5	871.4	870.3
140°	912.6	912.8	912.6	912.4	912.1	911.9	911.2	910.1	909.0	907.9	906.7
142.5°	946.6	946.9	946.5	946.0	945.6	945.2	944.5	943.3	942.2	941.1	940.0
145°	996.7	996.9	996.2	995.6	994.9	994.2	993.6	993.2	992.7	992.3	991.8
147.5°	1043.7	1043.7	1043.1	1042.5	1041.8	1041.2	1040.5	1039.7	1038.8	1038.0	1037.2
150°	1072.9	1072.9	1072.4	1072.0	1071.5	1071.1	1070.6	1070.2	1069.7	1069.3	1068.8
152.5°	1099.2	1098.8	1098.6	1098.3	1098.0	1097.7	1097.3	1096.7	1096.0	1095.4	1094.8
155°	1137.6	1136.7	1136.5	1136.3	1136.0	1135.8	1135.7	1135.7	1135.7	1135.7	1135.7
157.5°	1171.1	1170.1	1170.0	1169.8	1169.6	1169.4	1169.5	1169.7	1170.0	1170.3	1170.6
160°	1191.5	1190.4	1190.4	1190.4	1190.4	1190.4	1190.6	1191.1	1191.5	1192.0	1192.4
162.5°	1211.0	1209.9	1209.7	1209.5	1209.3	1209.1	1209.4	1210.0	1210.6	1211.3	1211.9
165°	1235.3	1234.0	1234.0	1234.0	1234.0	1234.0	1234.3	1235.0	1235.7	1236.3	1237.0
167.5°	1255.2	1253.8	1253.7	1253.5	1253.3	1253.1	1253.5	1254.4	1255.3	1256.2	1257.1
170°	1265.9	1264.4	1264.4	1264.4	1264.4	1264.4	1264.8	1265.7	1266.6	1267.5	1268.4
172.5°	1274.7	1273.3	1273.3	1273.3	1273.3	1273.3	1273.7	1274.6	1275.5	1276.4	1277.3
175°	1284.0	1282.6	1282.6	1282.6	1282.6	1282.6	1283.1	1284.0	1284.9	1285.8	1286.7
177.5°	1288.3	1287.3	1287.3	1287.3	1287.3	1287.3	1287.6	1288.3	1289.1	1289.8	1290.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	483.8	484.8	487.9	490.2	492.8	494.3	495.7	496.9	498.4	498.7	504.1
5°	486.0	490.6	498.8	504.8	512.3	520.4	526.0	528.6	535.4	540.9	552.1
7.5°	485.4	495.3	507.6	520.4	534.0	546.7	557.7	570.8	580.0	594.0	607.7
10°	484.8	498.1	513.9	530.2	549.3	567.0	582.9	600.6	615.3	634.6	651.1
12.5°	483.1	499.2	521.2	540.5	563.7	588.1	611.6	634.3	647.3	679.5	694.7
15°	479.0	498.1	525.6	554.9	586.8	615.7	645.5	669.3	707.7	735.9	753.9
17.5°	471.1	497.8	530.4	565.8	604.6	642.7	676.5	712.5	753.3	787.4	823.8
20°	467.3	496.7	533.0	572.2	612.5	655.6	694.0	737.3	781.8	815.4	862.0
22.5°	460.4	493.7	532.8	576.4	619.5	664.1	709.1	752.8	804.2	850.4	894.8
25°	449.2	486.4	527.0	575.7	626.2	670.9	724.8	782.8	836.3	895.8	940.0
27.5°	437.3	477.1	517.7	563.0	617.4	670.5	738.2	803.7	869.2	920.5	953.3
30°	428.2	466.9	508.8	554.5	608.3	671.4	747.1	818.6	882.5	926.5	944.9
32.5°	418.3	457.5	494.6	542.5	599.9	670.8	752.7	827.4	883.2	912.5	908.9
35°	402.8	435.6	471.8	517.9	585.4	666.7	756.0	828.2	862.4	856.1	808.6
37.5°	380.4	408.1	443.6	494.1	568.7	658.1	749.4	803.6	801.4	750.2	681.3
40°	366.5	390.0	424.2	477.3	555.6	652.5	739.2	774.4	744.6	673.0	590.6
42.5°	348.2	369.9	404.1	458.7	541.3	641.2	719.6	729.8	671.5	589.2	513.6
45°	319.9	339.0	374.4	430.8	519.7	616.4	671.9	646.9	568.4	483.4	425.9
47.5°	289.4	309.3	343.3	401.3	488.6	579.2	605.6	552.6	472.0	403.0	350.2
50°	270.2	289.3	322.7	381.1	467.6	548.6	559.6	491.1	417.0	356.4	313.1
52.5°	250.9	268.8	301.6	360.3	443.0	513.2	506.5	436.7	368.6	316.9	282.9
55°	222.0	239.0	270.2	325.2	400.5	456.1	431.7	365.1	308.7	268.6	242.7
57.5°	196.2	212.5	239.4	289.1	354.5	392.8	361.7	305.5	260.7	229.8	210.6
60°	178.7	193.1	218.8	264.9	321.7	350.8	320.1	270.5	232.7	208.0	190.8
62.5°	162.1	174.7	198.4	240.3	289.7	314.1	283.0	241.0	208.9	187.0	172.3
65°	137.0	148.4	169.4	202.0	242.5	258.8	232.0	198.0	173.1	156.8	147.0
67.5°	114.1	123.8	141.9	167.5	197.4	209.2	188.8	162.5	143.7	130.6	122.9
70°	98.8	107.2	121.4	143.5	170.5	179.6	160.5	138.8	125.1	114.6	107.4
72.5°	85.9	92.1	105.0	122.1	144.6	151.8	138.5	119.5	106.7	98.8	93.0
75°	65.5	70.6	79.0	92.7	108.3	112.5	102.5	90.6	82.0	76.4	72.0
77.5°	47.2	51.0	57.0	65.5	76.3	80.1	73.8	65.8	59.5	55.8	53.3
80°	35.6	38.7	43.8	50.8	57.3	59.4	55.7	49.6	45.2	43.1	41.0
82.5°	26.3	28.0	31.1	35.9	40.3	42.8	39.7	36.0	33.6	31.7	30.9
85°	13.3	14.2	15.6	17.5	20.3	21.2	20.0	19.1	17.7	16.5	16.5
87.5°	5.5	5.9	7.0	7.8	9.0	10.2	10.6	10.8	11.2	11.2	11.2
90°	3.3	5.5	7.8	10.0	12.6	15.5	18.5	21.4	24.3	25.2	26.1
92.5°	26.0	27.6	29.1	30.6	32.2	33.9	35.6	37.2	38.9	39.6	40.3
95°	61.3	62.9	64.5	66.1	67.8	69.6	71.4	73.2	75.0	75.9	76.8
97.5°	107.3	108.5	109.7	110.9	112.1	113.4	114.7	116.0	117.3	118.4	119.4
100°	139.1	140.5	141.8	143.2	144.4	145.6	146.7	147.8	148.9	149.6	150.3
102.5°	175.1	175.9	176.7	177.5	178.6	180.1	181.6	183.1	184.6	185.3	185.9
105°	228.4	228.9	229.3	229.8	231.0	233.0	235.0	237.1	239.1	239.1	239.1
107.5°	290.6	290.9	291.2	291.4	292.0	292.8	293.6	294.4	295.2	295.9	296.7
110°	329.7	330.2	330.6	331.1	331.5	332.0	332.4	332.9	333.3	334.2	335.1



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	370.1	370.3	370.6	370.9	371.0	371.1	371.2	371.3	371.4	372.5	373.6
115°	431.2	431.9	432.6	433.3	433.4	432.9	432.5	432.0	431.6	431.8	432.0
117.5°	492.2	492.7	493.1	493.6	493.5	492.9	492.3	491.7	491.2	491.1	491.1
120°	531.2	532.6	533.9	535.3	535.4	534.2	533.1	532.0	530.9	530.6	530.4
122.5°	570.6	571.6	572.5	573.5	573.7	573.2	572.6	572.0	571.4	570.8	570.2
125°	630.8	631.5	632.2	632.9	633.0	632.5	632.1	631.6	631.2	630.3	629.4
127.5°	687.5	689.0	690.4	691.8	692.3	691.8	691.3	690.8	690.3	689.1	687.8
130°	725.2	727.0	728.8	730.6	731.1	730.5	729.8	729.1	728.4	727.5	726.6
132.5°	762.4	764.2	766.1	767.9	768.5	768.0	767.5	767.0	766.5	765.4	764.4
135°	818.9	820.3	821.6	823.0	823.5	823.3	823.1	822.9	822.6	821.7	820.8
137.5°	871.4	872.5	873.6	874.8	875.6	876.2	876.8	877.4	878.0	877.0	876.1
140°	907.9	909.0	910.1	911.2	911.9	912.1	912.4	912.6	912.8	912.6	912.4
142.5°	941.1	942.2	943.3	944.5	945.2	945.6	946.0	946.5	946.9	946.6	946.4
145°	992.3	992.7	993.2	993.6	994.2	994.9	995.6	996.2	996.9	996.7	996.5
147.5°	1038.0	1038.8	1039.7	1040.5	1041.2	1041.8	1042.5	1043.1	1043.7	1043.7	1043.7
150°	1069.3	1069.7	1070.2	1070.6	1071.1	1071.5	1072.0	1072.4	1072.9	1072.9	1072.9
152.5°	1095.4	1096.0	1096.7	1097.3	1097.7	1098.0	1098.3	1098.6	1098.8	1099.2	1099.5
155°	1135.7	1135.7	1135.7	1135.7	1135.8	1136.0	1136.3	1136.5	1136.7	1137.6	1138.5
157.5°	1170.3	1170.0	1169.7	1169.5	1169.4	1169.6	1169.8	1170.0	1170.1	1171.1	1172.0
160°	1192.0	1191.5	1191.1	1190.6	1190.4	1190.4	1190.4	1190.4	1190.4	1191.5	1192.7
162.5°	1211.3	1210.6	1210.0	1209.4	1209.1	1209.3	1209.5	1209.7	1209.9	1211.0	1212.1
165°	1236.3	1235.7	1235.0	1234.3	1234.0	1234.0	1234.0	1234.0	1234.0	1235.3	1236.7
167.5°	1256.2	1255.3	1254.4	1253.5	1253.1	1253.3	1253.5	1253.7	1253.8	1255.2	1256.6
170°	1267.5	1266.6	1265.7	1264.8	1264.4	1264.4	1264.4	1264.4	1264.4	1265.9	1267.5
172.5°	1276.4	1275.5	1274.6	1273.7	1273.3	1273.3	1273.3	1273.3	1273.3	1274.7	1276.1
175°	1285.8	1284.9	1284.0	1283.1	1282.6	1282.6	1282.6	1282.6	1282.6	1284.0	1285.3
177.5°	1289.8	1289.1	1288.3	1287.6	1287.3	1287.3	1287.3	1287.3	1287.3	1288.3	1289.4
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	506.0	506.2	508.2	509.7	509.0	509.9	510.3
5°	552.8	561.2	565.6	568.9	569.1	569.4	571.2
7.5°	619.2	628.2	634.8	644.8	647.7	651.1	650.2
10°	667.7	681.0	692.4	698.4	705.0	714.5	706.8
12.5°	713.0	736.5	753.9	763.3	769.4	771.3	767.6
15°	787.7	818.4	834.9	834.5	855.4	864.5	850.3
17.5°	856.1	884.5	907.3	918.9	936.4	940.2	938.5
20°	898.1	929.1	946.8	966.8	975.9	984.0	985.4
22.5°	934.2	962.1	981.1	997.7	1005.3	1009.2	1011.5
25°	971.5	993.4	1004.8	1010.6	1012.7	1012.2	1009.2
27.5°	968.9	970.6	958.0	945.7	934.6	922.2	917.9
30°	943.7	924.2	889.2	869.4	840.3	817.2	826.6
32.5°	877.6	838.6	799.4	756.1	720.3	710.1	699.8
35°	749.0	680.5	640.4	593.8	575.2	556.6	543.7
37.5°	605.9	553.0	505.4	475.0	456.3	444.5	438.2
40°	523.9	476.2	437.0	412.3	398.1	384.9	383.0
42.5°	458.5	414.1	384.7	365.0	351.4	345.7	341.6
45°	375.5	344.6	324.8	310.8	301.7	298.2	293.5
47.5°	317.9	296.0	281.1	271.6	264.7	262.1	261.8
50°	285.6	267.4	256.5	249.0	243.7	242.7	239.0
52.5°	261.4	245.6	237.1	230.6	226.7	224.1	223.0
55°	226.9	216.4	208.7	205.0	202.0	199.4	199.4
57.5°	198.5	189.8	184.7	181.5	180.6	178.8	177.6
60°	181.0	173.6	169.6	166.8	164.9	165.2	163.1
62.5°	163.9	159.0	155.2	152.5	150.2	150.3	150.4
65°	139.5	135.8	133.0	132.1	130.7	129.1	129.5
67.5°	118.3	114.8	112.6	111.0	110.5	109.6	111.0
70°	103.0	100.4	98.8	97.4	96.9	97.1	98.3
72.5°	89.0	87.2	86.1	85.5	84.4	84.5	85.3
75°	69.9	68.5	67.6	66.9	66.6	66.6	66.6
77.5°	51.3	51.0	50.6	49.6	49.6	49.9	49.9
80°	40.5	39.8	39.6	39.1	38.4	38.0	39.1
82.5°	30.3	29.6	29.4	29.3	28.2	28.1	29.1
85°	16.3	15.6	15.8	15.6	15.6	15.4	15.4
87.5°	11.2	11.2	11.1	11.4	11.3	11.2	11.7
90°	27.0	27.9	28.6	29.0	29.5	29.9	30.4
92.5°	41.1	41.8	42.0	41.7	41.5	41.2	40.9
95°	77.7	78.6	79.0	79.0	79.0	79.0	79.0
97.5°	120.4	121.5	121.9	121.8	121.8	121.7	121.6
100°	151.0	151.6	152.2	152.6	153.1	153.5	154.0
102.5°	186.6	187.3	187.6	187.5	187.4	187.3	187.2
105°	239.1	239.1	239.3	239.8	240.2	240.7	241.1
107.5°	297.4	298.1	298.3	298.1	297.8	297.5	297.2
110°	336.0	336.9	337.1	336.7	336.2	335.8	335.3



TEST NUMBER: P332103

CATALOG NUMBER: S123DIW-S340D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	374.6	375.7	376.2	376.1	376.0	376.0	375.9
115°	432.3	432.5	432.5	432.3	432.0	431.8	431.6
117.5°	491.0	491.0	490.6	490.0	489.4	488.7	488.1
120°	530.2	530.0	529.6	529.2	528.7	528.3	527.8
122.5°	569.6	569.1	568.4	567.8	567.2	566.6	565.9
125°	628.5	627.6	626.7	625.8	624.9	624.0	623.1
127.5°	686.6	685.3	684.1	683.1	682.1	681.0	680.0
130°	725.7	724.8	723.6	722.0	720.4	718.9	717.3
132.5°	763.3	762.2	761.1	759.8	758.6	757.4	756.2
135°	819.9	819.0	818.4	817.9	817.5	817.0	816.6
137.5°	875.1	874.2	873.3	872.4	871.6	870.7	869.9
140°	912.1	911.9	911.0	909.4	907.9	906.3	904.7
142.5°	946.2	946.0	945.2	944.0	942.8	941.6	940.4
145°	996.2	996.0	995.4	994.5	993.6	992.7	991.8
147.5°	1043.7	1043.7	1043.0	1041.7	1040.3	1039.0	1037.6
150°	1072.9	1072.9	1072.2	1070.9	1069.5	1068.2	1066.8
152.5°	1099.9	1100.3	1099.9	1098.7	1097.5	1096.3	1095.2
155°	1139.4	1140.3	1140.0	1138.4	1136.8	1135.3	1133.7
157.5°	1173.0	1173.9	1173.8	1172.5	1171.3	1170.0	1168.7
160°	1193.8	1194.9	1195.0	1194.1	1193.2	1192.3	1191.4
162.5°	1213.2	1214.4	1214.2	1212.8	1211.3	1209.9	1208.4
165°	1238.0	1239.4	1239.3	1237.7	1236.1	1234.5	1233.0
167.5°	1258.0	1259.4	1259.4	1258.0	1256.6	1255.2	1253.8
170°	1269.1	1270.7	1270.7	1269.1	1267.5	1265.9	1264.4
172.5°	1277.5	1278.9	1278.8	1277.2	1275.6	1274.0	1272.5
175°	1286.7	1288.0	1287.9	1286.3	1284.7	1283.2	1281.6
177.5°	1290.5	1291.6	1291.5	1290.2	1289.0	1287.7	1286.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7

(END OF REPORT)