

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: P332109-927

Luminaire Tested: **S123DIW-S340D1320U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332109-927
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-S340D1320U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4777.4 lumens
Efficiency: N/A
Efficacy: 102.5 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

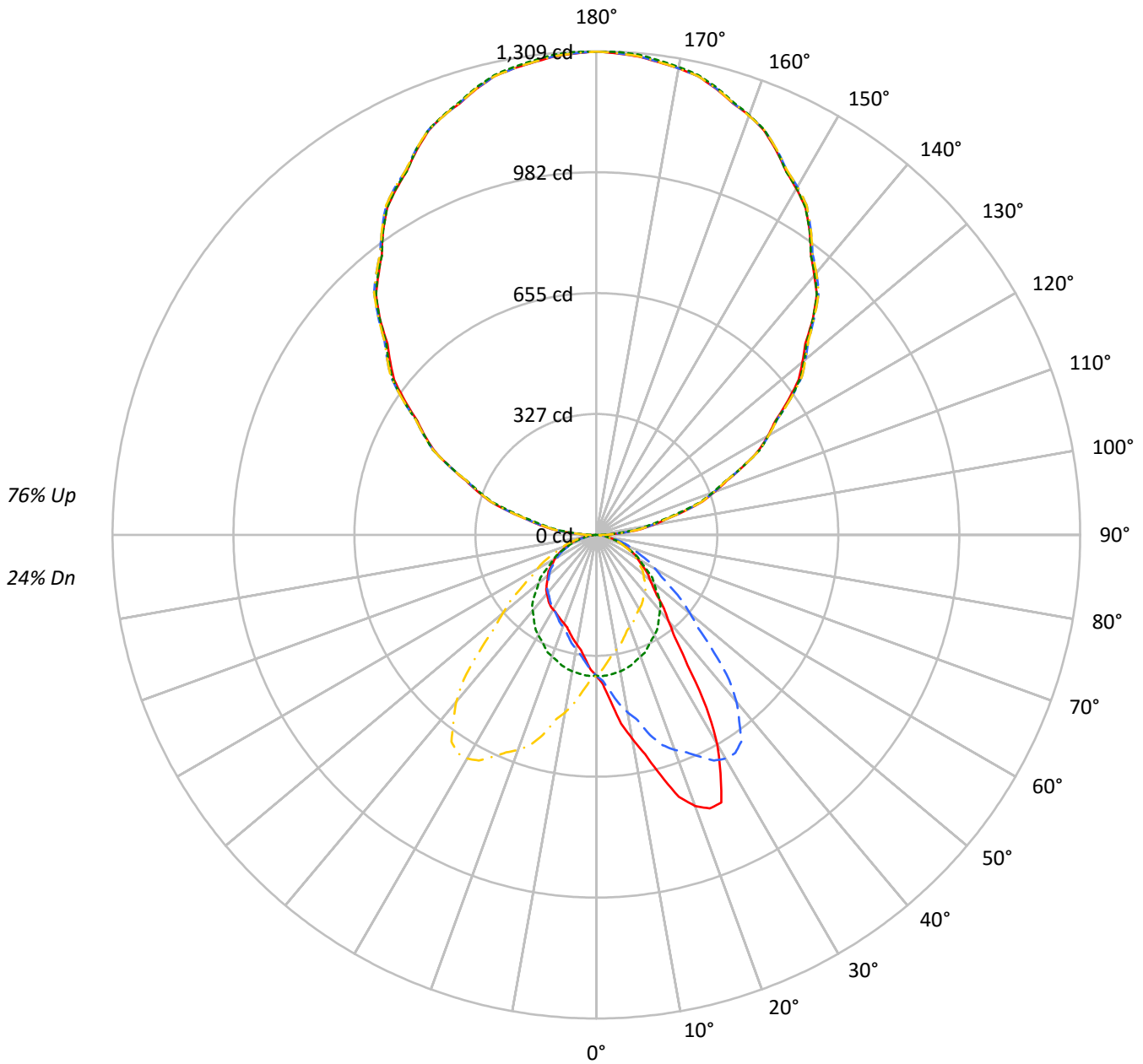
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4100	4100	4100	4100
5°	4889	4118	3649	4118
10°	6120	4098	3296	4098
15°	7506	4063	3069	4063
20°	8942	4013	2922	4013
25°	9495	3950	2888	3950
30°	8139	3904	2903	3904
35°	5660	3840	2934	3840
40°	4263	3763	2925	3763
45°	3539	3649	2888	3649
50°	3170	3418	2862	3418
55°	2965	3170	2826	3170
60°	2781	2908	2796	2908
65°	2613	2651	2707	2651
70°	2452	2357	2578	2357
75°	2196	2067	2366	2067
80°	1922	1692	2039	1692
85°	1507	1235	1371	1235



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.8
10°-20°	120.3	2.5
20°-30°	201.9	4.2
30°-40°	228.6	4.8
40°-50°	205.0	4.3
50°-60°	165.5	3.5
60°-70°	115.3	2.4
70°-80°	60.6	1.3
80°-90°	18.7	0.4
90°-100°	85.2	1.8
100°-110°	255.0	5.3
110°-120°	433.8	9.1
120°-130°	570.5	11.9
130°-140°	641.3	13.4
140°-150°	630.4	13.2
150°-160°	530.7	11.1
160°-170°	353.3	7.4
170°-180°	123.7	2.6
0°-30°	359.8	7.5
0°-40°	588.4	12.3
0°-60°	958.9	20.1
0°-90°	1153.5	24.1
90°-120°	774.0	16.2
90°-150°	2616.2	54.8
90°-180°	3624.0	75.9
0°-180°	4777.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	381	381	381	381	381	
5°	452	381	338	381	452	47
15°	674	365	275	365	674	194
25°	800	333	243	333	800	351
35°	431	292	223	292	431	280
45°	232	240	190	240	232	184
55°	158	169	151	169	158	142
65°	103	104	106	104	103	102
75°	53	50	57	50	53	56
85°	12	10	11	10	12	15
90°	31	1	31	1	31	16
95°	80	61	80	61	80	82
105°	244	231	244	231	244	259
115°	438	437	438	437	438	433
125°	632	639	632	639	632	565
135°	828	829	828	829	828	637
145°	1006	1006	1006	1006	1006	628
155°	1150	1152	1150	1152	1150	529
165°	1250	1254	1250	1254	1250	353
175°	1300	1305	1300	1305	1300	123
180°	1308	1308	1308	1308	1308	



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	404.3	403.9	403.2	403.8	402.6	401.0	400.8	399.3	395.1	394.8	393.6
5°	452.5	451.1	450.8	450.7	448.1	444.6	437.9	437.4	428.5	424.1	418.7
7.5°	515.1	515.8	513.1	510.8	502.9	497.6	490.5	481.4	470.6	459.5	452.2
10°	559.9	566.0	558.5	553.3	548.5	539.5	528.9	515.8	502.7	487.4	475.8
12.5°	608.1	611.0	609.5	604.7	597.2	583.4	564.8	550.3	538.3	512.8	502.5
15°	673.6	684.8	677.6	661.1	661.4	648.3	624.0	597.2	583.0	560.6	530.2
17.5°	743.5	744.8	741.8	727.9	718.7	700.7	678.2	652.6	623.8	596.8	564.4
20°	780.6	779.5	773.1	765.9	750.0	736.0	711.5	682.9	645.9	619.3	584.1
22.5°	801.3	799.5	796.4	790.4	777.2	762.2	740.1	708.8	673.7	637.1	596.4
25°	799.5	801.8	802.2	800.6	796.0	787.0	769.6	744.7	709.6	662.5	620.1
27.5°	727.1	730.6	740.4	749.2	758.9	768.9	767.5	755.2	729.2	688.6	636.7
30°	654.8	647.4	665.7	688.7	704.4	732.1	747.6	748.5	734.0	699.1	648.5
32.5°	554.4	562.5	570.6	599.0	633.3	664.3	695.2	720.0	722.9	699.7	655.5
35°	430.7	440.9	455.7	470.4	507.3	539.1	593.3	640.6	678.2	683.2	656.1
37.5°	347.1	352.1	361.5	376.3	400.4	438.1	480.0	539.7	594.3	634.9	636.6
40°	303.4	304.9	315.4	326.6	346.2	377.2	415.0	467.9	533.1	589.9	613.5
42.5°	270.6	273.9	278.4	289.1	304.8	328.0	363.2	406.9	466.8	532.0	578.1
45°	232.5	236.2	239.0	246.2	257.3	273.0	297.5	337.4	382.9	450.3	512.5
47.5°	207.4	207.6	209.7	215.2	222.7	234.5	251.8	277.4	319.2	373.9	437.8
50°	189.3	192.3	193.1	197.3	203.2	211.8	226.2	248.0	282.3	330.3	389.0
52.5°	176.7	177.5	179.6	182.7	187.8	194.6	207.1	224.1	251.0	292.0	345.9
55°	158.0	158.0	160.0	162.4	165.3	171.4	179.7	192.3	212.8	244.5	289.2
57.5°	140.7	141.6	143.1	143.8	146.3	150.4	157.2	166.8	182.0	206.5	242.0
60°	129.2	130.9	130.6	132.1	134.4	137.5	143.4	151.1	164.8	184.3	214.3
62.5°	119.1	119.1	119.0	120.8	122.9	126.0	129.8	136.5	148.1	165.5	190.9
65°	102.6	102.3	103.5	104.6	105.4	107.6	110.5	116.5	124.2	137.1	156.9
67.5°	87.9	86.8	87.5	87.9	89.2	90.9	93.7	97.4	103.5	113.8	128.7
70°	77.9	76.9	76.8	77.2	78.3	79.5	81.6	85.1	90.8	99.1	110.0
72.5°	67.6	66.9	66.9	67.7	68.2	69.1	70.5	73.7	78.3	84.5	94.7
75°	52.8	52.8	52.8	53.0	53.6	54.3	55.4	57.0	60.5	65.0	71.8
77.5°	39.5	39.5	39.3	39.3	40.1	40.4	40.6	42.2	44.2	47.1	52.1
80°	31.0	30.1	30.4	31.0	31.4	31.5	32.1	32.5	34.1	35.8	39.3
82.5°	23.1	22.3	22.3	23.2	23.3	23.4	24.0	24.5	25.1	26.6	28.5
85°	12.2	12.2	12.4	12.4	12.5	12.4	12.9	13.1	13.1	14.0	15.1
87.5°	10.6	10.2	10.3	10.3	10.1	10.1	10.1	10.1	10.0	10.0	9.5
90°	30.8	30.3	29.9	29.5	29.0	28.3	27.4	26.5	25.6	24.6	21.7
92.5°	41.5	41.7	42.1	42.3	42.6	42.4	41.7	40.9	40.2	39.5	37.8
95°	80.2	80.2	80.2	80.2	80.2	79.7	78.7	77.9	76.9	76.0	74.2
97.5°	123.3	123.4	123.5	123.6	123.7	123.2	122.2	121.0	120.0	119.0	117.6
100°	156.1	155.7	155.3	154.8	154.3	153.8	153.0	152.4	151.7	151.1	149.9
102.5°	189.9	190.0	190.0	190.1	190.2	190.0	189.3	188.5	187.9	187.2	185.7
105°	244.5	244.1	243.6	243.2	242.7	242.5	242.5	242.5	242.5	242.5	240.4
107.5°	301.4	301.7	302.0	302.3	302.5	302.3	301.6	300.9	300.2	299.4	298.6
110°	340.1	340.6	341.0	341.4	341.9	341.7	340.8	339.8	339.0	338.0	337.5



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	381.2	381.3	381.4	381.4	381.5	381.0	379.9	378.8	377.8	376.7	376.6
115°	437.7	437.9	438.2	438.4	438.6	438.6	438.4	438.2	437.9	437.7	438.2
117.5°	495.0	495.7	496.3	496.9	497.6	497.9	498.0	498.0	498.0	498.1	498.7
120°	535.3	535.8	536.2	536.7	537.1	537.5	537.7	537.9	538.1	538.4	539.6
122.5°	573.9	574.6	575.2	575.8	576.5	577.1	577.7	578.3	578.8	579.5	580.0
125°	631.8	632.8	633.7	634.6	635.6	636.4	637.4	638.3	639.2	640.1	640.6
127.5°	689.6	690.7	691.7	692.8	693.8	695.0	696.2	697.5	698.8	700.1	700.6
130°	727.5	729.0	730.6	732.2	733.8	735.1	736.0	736.9	737.8	738.7	739.4
132.5°	766.9	768.1	769.4	770.6	771.8	773.0	774.0	775.2	776.3	777.4	777.8
135°	828.1	828.5	829.0	829.5	830.0	830.6	831.6	832.4	833.4	834.2	834.5
137.5°	882.2	883.0	883.9	884.8	885.7	886.5	887.5	888.4	889.4	890.4	889.8
140°	917.5	919.1	920.7	922.3	923.9	924.8	925.0	925.3	925.5	925.7	925.5
142.5°	953.7	954.9	956.2	957.4	958.6	959.3	959.6	959.8	960.0	960.3	959.8
145°	1005.8	1006.8	1007.7	1008.6	1009.6	1010.1	1010.3	1010.5	1010.7	1011.0	1010.3
147.5°	1052.3	1053.7	1055.0	1056.5	1057.8	1058.4	1058.4	1058.4	1058.4	1058.4	1057.8
150°	1081.9	1083.2	1084.7	1086.0	1087.3	1088.1	1088.1	1088.1	1088.1	1088.1	1087.6
152.5°	1110.6	1111.8	1113.0	1114.2	1115.4	1115.8	1115.5	1115.1	1114.8	1114.4	1114.1
155°	1149.7	1151.3	1152.9	1154.5	1156.1	1156.4	1155.6	1154.6	1153.7	1152.8	1152.5
157.5°	1185.3	1186.5	1187.8	1189.1	1190.3	1190.6	1189.5	1188.6	1187.6	1186.7	1186.5
160°	1208.2	1209.2	1210.1	1211.0	1212.0	1211.8	1210.7	1209.5	1208.4	1207.2	1207.2
162.5°	1225.5	1227.0	1228.4	1229.9	1231.4	1231.5	1230.4	1229.2	1228.1	1226.9	1226.8
165°	1250.4	1252.0	1253.6	1255.2	1256.8	1256.9	1255.5	1254.2	1252.8	1251.4	1251.4
167.5°	1271.5	1273.0	1274.4	1275.8	1277.2	1277.2	1275.8	1274.4	1273.0	1271.5	1271.4
170°	1282.2	1283.8	1285.5	1287.1	1288.6	1288.6	1287.1	1285.5	1283.8	1282.2	1282.2
172.5°	1290.5	1292.0	1293.6	1295.3	1296.9	1297.0	1295.5	1294.1	1292.7	1291.3	1291.3
175°	1299.7	1301.3	1302.9	1304.5	1306.1	1306.2	1304.9	1303.5	1302.1	1300.8	1300.8
177.5°	1304.6	1305.9	1307.2	1308.4	1309.8	1309.9	1308.8	1307.7	1306.5	1305.4	1305.4
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	392.7	391.6	390.4	388.3	386.5	384.0	383.3	382.4	379.7	377.4	375.6
5°	416.7	412.3	405.8	399.9	395.1	388.6	385.0	381.1	375.6	370.6	366.5
7.5°	441.8	433.1	423.0	412.3	402.1	392.4	384.5	377.5	369.7	362.4	356.6
10°	461.8	449.2	435.1	420.0	407.1	394.6	384.0	374.9	364.9	356.2	349.0
12.5°	484.5	465.9	446.6	428.2	412.9	395.5	382.7	371.0	359.7	349.3	341.2
15°	511.4	487.7	464.9	439.6	416.4	394.6	379.5	364.6	351.6	340.9	330.5
17.5°	535.9	509.1	479.0	448.2	420.2	394.3	373.2	356.5	340.1	327.0	316.7
20°	549.8	519.4	485.2	453.3	422.2	393.5	370.2	350.3	332.6	318.7	307.1
22.5°	561.7	526.1	490.8	456.6	422.1	391.1	364.7	344.2	325.0	311.5	299.1
25°	574.2	531.5	496.1	456.1	417.5	385.3	355.8	332.6	313.4	297.5	284.8
27.5°	584.8	531.2	489.1	446.0	410.1	378.0	346.4	321.5	301.1	283.8	270.9
30°	591.8	531.9	481.9	439.3	403.1	369.9	339.2	314.1	292.7	275.2	263.0
32.5°	596.3	531.4	475.2	429.8	391.8	362.4	331.4	305.4	283.4	266.2	254.4
35°	598.9	528.1	463.7	410.3	373.8	345.1	319.1	292.2	269.1	253.0	239.7
37.5°	593.7	521.3	450.5	391.4	351.4	323.3	301.3	278.5	256.4	238.7	227.2
40°	585.6	516.9	440.1	378.1	336.0	309.0	290.3	267.8	246.0	229.2	218.5
42.5°	570.1	507.9	428.8	363.4	320.1	293.0	275.8	257.0	236.4	220.6	209.9
45°	532.3	488.3	411.7	341.3	296.6	268.5	253.4	239.7	221.1	205.8	196.5
47.5°	479.7	458.8	387.1	317.9	272.0	245.0	229.3	218.3	204.7	192.3	183.5
50°	443.3	434.6	370.4	301.9	255.6	229.2	214.0	204.1	194.3	182.0	173.9
52.5°	401.2	406.5	350.9	285.4	238.9	212.9	198.8	190.8	182.0	171.7	164.7
55°	342.0	361.3	317.3	257.6	214.0	189.3	175.9	168.9	163.7	156.1	150.0
57.5°	286.5	311.2	280.8	229.0	189.6	168.3	155.4	147.8	144.5	140.5	135.7
60°	253.6	277.9	254.8	209.8	173.3	153.0	141.6	135.1	131.7	129.0	124.9
62.5°	224.2	248.8	229.5	190.4	157.2	138.4	128.4	122.1	119.5	118.1	114.6
65°	183.8	205.0	192.1	160.0	134.2	117.6	108.5	104.1	101.7	101.2	98.9
67.5°	149.6	165.7	156.4	132.7	112.4	98.1	90.4	86.6	84.8	84.5	82.9
70°	127.1	142.3	135.1	113.7	96.2	84.9	78.3	74.9	73.8	73.7	72.7
72.5°	109.7	120.3	114.5	96.7	83.2	73.0	68.0	64.6	63.4	63.6	63.0
75°	81.2	89.1	85.8	73.4	62.6	55.9	51.9	49.7	48.6	49.1	48.3
77.5°	58.5	63.5	60.4	51.9	45.2	40.4	37.4	36.0	35.0	35.0	34.7
80°	44.1	47.1	45.4	40.2	34.7	30.7	28.2	27.3	26.8	26.5	26.4
82.5°	31.4	33.9	31.9	28.4	24.6	22.2	20.8	19.6	19.3	19.3	19.2
85°	15.8	16.8	16.1	13.9	12.4	11.2	10.5	10.0	9.6	9.7	9.4
87.5°	9.2	8.8	7.8	6.6	5.9	5.0	4.5	3.7	3.9	4.4	4.7
90°	18.7	15.8	12.8	10.1	7.8	5.6	3.3	1.0	3.3	5.6	7.8
92.5°	36.0	34.4	32.7	31.1	29.5	28.0	26.4	24.9	26.4	28.0	29.5
95°	72.4	70.6	68.8	67.0	65.4	63.8	62.2	60.6	62.2	63.8	65.4
97.5°	116.3	115.0	113.7	112.4	111.2	110.0	108.8	107.7	108.8	110.0	111.2
100°	148.8	147.6	146.5	145.2	143.9	142.4	141.1	139.7	141.1	142.4	143.9
102.5°	184.2	182.7	181.2	180.0	179.2	178.4	177.5	176.7	177.5	178.4	179.2
105°	238.4	236.3	234.2	233.0	232.5	232.1	231.6	231.2	231.6	232.1	232.5
107.5°	297.8	296.9	296.1	295.6	295.3	295.0	294.8	294.5	294.8	295.0	295.3
110°	337.2	336.7	336.2	335.7	335.3	334.9	334.4	333.9	334.4	334.9	335.3



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	376.4	376.4	376.3	376.1	375.8	375.6	375.3	375.0	375.3	375.6	375.8
115°	438.6	439.0	439.5	439.4	438.7	438.0	437.4	436.7	437.4	438.0	438.7
117.5°	499.3	499.9	500.5	500.6	500.1	499.6	499.2	498.8	499.2	499.6	500.1
120°	540.7	541.8	543.0	542.8	541.5	540.1	538.7	537.3	538.7	540.1	541.5
122.5°	580.7	581.2	581.9	581.6	580.7	579.6	578.6	577.7	578.6	579.6	580.7
125°	641.0	641.4	641.9	641.8	641.1	640.4	639.8	639.1	639.8	640.4	641.1
127.5°	701.1	701.6	702.1	701.6	700.1	698.7	697.3	695.8	697.3	698.7	700.1
130°	740.1	740.8	741.5	740.9	739.1	737.3	735.4	733.6	735.4	737.3	739.1
132.5°	778.4	778.9	779.3	778.7	776.9	775.1	773.2	771.4	773.2	775.1	776.9
135°	834.7	835.0	835.2	834.6	833.2	831.9	830.5	829.2	830.5	831.9	833.2
137.5°	889.2	888.6	888.0	887.2	886.0	884.9	883.7	882.6	883.7	884.9	886.0
140°	925.3	925.0	924.8	924.2	923.0	921.9	920.7	919.6	920.7	921.9	923.0
142.5°	959.4	959.0	958.6	957.8	956.7	955.5	954.4	953.2	954.4	955.5	956.7
145°	1009.6	1008.9	1008.3	1007.7	1007.3	1006.8	1006.3	1005.8	1006.3	1006.8	1007.3
147.5°	1057.2	1056.5	1055.9	1055.2	1054.4	1053.5	1052.7	1051.9	1052.7	1053.5	1054.4
150°	1087.1	1086.7	1086.2	1085.8	1085.3	1084.9	1084.4	1083.9	1084.4	1084.9	1085.3
152.5°	1113.8	1113.6	1113.3	1112.8	1112.1	1111.5	1110.9	1110.2	1110.9	1111.5	1112.1
155°	1152.3	1152.1	1151.9	1151.8	1151.8	1151.8	1151.8	1151.8	1151.8	1151.8	1151.8
157.5°	1186.3	1186.1	1186.0	1186.0	1186.3	1186.5	1186.8	1187.1	1186.8	1186.5	1186.3
160°	1207.2	1207.2	1207.2	1207.4	1207.9	1208.4	1208.9	1209.3	1208.9	1208.4	1207.9
162.5°	1226.6	1226.5	1226.2	1226.5	1227.1	1227.7	1228.4	1229.0	1228.4	1227.7	1227.1
165°	1251.4	1251.4	1251.4	1251.8	1252.4	1253.2	1253.8	1254.5	1253.8	1253.2	1252.4
167.5°	1271.2	1271.0	1270.8	1271.2	1272.1	1273.0	1273.9	1274.9	1273.9	1273.0	1272.1
170°	1282.2	1282.2	1282.2	1282.7	1283.7	1284.5	1285.5	1286.3	1285.5	1284.5	1283.7
172.5°	1291.3	1291.3	1291.3	1291.7	1292.7	1293.6	1294.5	1295.4	1294.5	1293.6	1292.7
175°	1300.8	1300.8	1300.8	1301.2	1302.1	1303.1	1303.9	1304.9	1303.9	1303.1	1302.1
177.5°	1305.4	1305.4	1305.4	1305.8	1306.5	1307.3	1308.1	1308.8	1308.1	1307.3	1306.5
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	374.5	373.5	372.1	369.9	368.0	365.3	365.3	365.7	365.7	365.6	365.3
5°	363.2	360.4	357.1	353.2	349.2	345.1	344.4	342.9	341.8	341.0	340.2
7.5°	351.2	346.3	341.4	336.0	331.1	327.0	324.2	321.8	320.3	318.6	317.4
10°	343.1	337.0	331.3	325.6	319.2	314.3	311.2	309.0	307.3	305.8	305.1
12.5°	333.5	326.5	320.2	314.7	307.9	302.8	299.8	298.7	296.8	293.7	292.1
15°	319.5	313.0	305.5	297.1	293.8	287.6	284.0	282.3	281.2	278.8	278.1
17.5°	307.4	299.0	290.5	284.3	278.1	273.1	271.1	269.0	267.6	265.6	265.0
20°	297.9	290.3	282.6	275.9	269.4	263.9	262.2	260.8	259.3	258.4	257.6
22.5°	288.1	280.6	274.1	267.9	261.0	257.4	255.6	254.0	252.9	252.3	251.6
25°	274.4	267.8	260.5	255.1	249.5	247.1	246.0	245.1	244.3	243.4	243.2
27.5°	262.2	254.9	249.1	243.9	240.0	238.0	236.9	236.5	236.6	236.9	237.2
30°	253.0	246.4	241.6	237.2	233.5	231.6	231.4	231.4	232.2	232.3	232.7
32.5°	244.6	239.2	234.3	230.0	227.3	226.0	226.7	226.7	227.3	227.8	228.5
35°	232.3	227.5	223.9	220.1	217.8	218.3	218.7	219.0	220.0	221.1	221.8
37.5°	220.6	216.5	212.6	209.8	208.7	209.6	210.6	211.3	212.4	213.3	214.0
40°	212.2	209.1	205.4	202.8	203.2	203.7	204.5	205.4	206.4	206.9	207.6
42.5°	204.4	201.1	198.3	196.1	196.7	197.4	197.8	198.3	199.4	200.4	200.8
45°	192.5	189.9	187.4	186.0	186.4	186.8	187.1	187.7	188.6	189.3	189.6
47.5°	179.1	177.3	175.5	174.3	174.9	174.8	175.2	176.4	176.7	177.1	178.2
50°	170.6	168.9	166.8	166.4	166.4	166.4	166.7	168.1	168.1	168.9	169.6
52.5°	161.1	160.0	158.8	158.0	157.7	157.7	158.5	159.2	159.5	160.6	161.4
55°	147.1	146.0	144.9	144.3	143.9	144.3	145.8	146.2	147.1	147.7	148.2
57.5°	132.5	131.7	130.8	130.5	130.4	130.9	131.7	132.8	133.0	134.8	135.5
60°	122.9	121.6	120.9	120.9	120.5	122.2	121.8	123.7	124.1	125.2	126.4
62.5°	113.0	111.3	111.0	111.0	111.5	112.0	112.5	113.3	114.3	115.7	116.7
65°	97.0	96.2	97.4	97.3	96.9	98.0	98.0	98.9	100.1	101.3	103.4
67.5°	82.0	81.5	81.6	81.6	82.1	82.8	83.3	84.1	85.5	86.8	88.2
70°	71.8	72.3	71.5	72.2	72.7	72.9	73.3	74.4	75.8	76.8	78.3
72.5°	61.9	61.9	61.9	62.3	62.8	63.1	63.5	64.8	66.4	67.2	68.4
75°	47.6	47.5	48.0	48.0	48.9	49.3	49.7	50.2	51.7	52.8	53.7
77.5°	34.8	35.0	34.9	35.5	35.3	35.3	36.4	37.0	37.2	39.4	39.8
80°	26.2	26.5	26.8	26.9	27.1	26.8	28.0	28.6	28.6	29.9	30.8
82.5°	18.9	19.0	19.5	19.7	19.7	20.1	20.2	20.6	21.1	21.6	22.8
85°	9.4	10.0	10.1	10.0	10.1	9.7	10.3	10.5	10.7	10.7	10.7
87.5°	5.0	5.6	6.1	6.8	7.3	8.0	8.2	8.1	8.3	8.9	8.5
90°	10.1	12.8	15.8	18.7	21.7	24.6	25.6	26.5	27.4	28.3	29.0
92.5°	31.1	32.7	34.4	36.0	37.8	39.5	40.2	40.9	41.7	42.4	42.6
95°	67.0	68.8	70.6	72.4	74.2	76.0	76.9	77.9	78.7	79.7	80.2
97.5°	112.4	113.7	115.0	116.3	117.6	119.0	120.0	121.0	122.2	123.2	123.7
100°	145.2	146.5	147.6	148.8	149.9	151.1	151.7	152.4	153.0	153.8	154.3
102.5°	180.0	181.2	182.7	184.2	185.7	187.2	187.9	188.5	189.3	190.0	190.2
105°	233.0	234.2	236.3	238.4	240.4	242.5	242.5	242.5	242.5	242.5	242.7
107.5°	295.6	296.1	296.9	297.8	298.6	299.4	300.2	300.9	301.6	302.3	302.5
110°	335.7	336.2	336.7	337.2	337.5	338.0	339.0	339.8	340.8	341.7	341.9



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	376.1	376.3	376.4	376.4	376.6	376.7	377.8	378.8	379.9	381.0	381.5
115°	439.4	439.5	439.0	438.6	438.2	437.7	437.9	438.2	438.4	438.6	438.6
117.5°	500.6	500.5	499.9	499.3	498.7	498.1	498.0	498.0	498.0	497.9	497.6
120°	542.8	543.0	541.8	540.7	539.6	538.4	538.1	537.9	537.7	537.5	537.1
122.5°	581.6	581.9	581.2	580.7	580.0	579.5	578.8	578.3	577.7	577.1	576.5
125°	641.8	641.9	641.4	641.0	640.6	640.1	639.2	638.3	637.4	636.4	635.6
127.5°	701.6	702.1	701.6	701.1	700.6	700.1	698.8	697.5	696.2	695.0	693.8
130°	740.9	741.5	740.8	740.1	739.4	738.7	737.8	736.9	736.0	735.1	733.8
132.5°	778.7	779.3	778.9	778.4	777.8	777.4	776.3	775.2	774.0	773.0	771.8
135°	834.6	835.2	835.0	834.7	834.5	834.2	833.4	832.4	831.6	830.6	830.0
137.5°	887.2	888.0	888.6	889.2	889.8	890.4	889.4	888.4	887.5	886.5	885.7
140°	924.2	924.8	925.0	925.3	925.5	925.7	925.5	925.3	925.0	924.8	923.9
142.5°	957.8	958.6	959.0	959.4	959.8	960.3	960.0	959.8	959.6	959.3	958.6
145°	1007.7	1008.3	1008.9	1009.6	1010.3	1011.0	1010.7	1010.5	1010.3	1010.1	1009.6
147.5°	1055.2	1055.9	1056.5	1057.2	1057.8	1058.4	1058.4	1058.4	1058.4	1058.4	1057.8
150°	1085.8	1086.2	1086.7	1087.1	1087.6	1088.1	1088.1	1088.1	1088.1	1088.1	1087.3
152.5°	1112.8	1113.3	1113.6	1113.8	1114.1	1114.4	1114.8	1115.1	1115.5	1115.8	1115.4
155°	1151.8	1151.9	1152.1	1152.3	1152.5	1152.8	1153.7	1154.6	1155.6	1156.4	1156.1
157.5°	1186.0	1186.0	1186.1	1186.3	1186.5	1186.7	1187.6	1188.6	1189.5	1190.6	1190.3
160°	1207.4	1207.2	1207.2	1207.2	1207.2	1207.2	1208.4	1209.5	1210.7	1211.8	1212.0
162.5°	1226.5	1226.2	1226.5	1226.6	1226.8	1226.9	1228.1	1229.2	1230.4	1231.5	1231.4
165°	1251.8	1251.4	1251.4	1251.4	1251.4	1251.4	1252.8	1254.2	1255.5	1256.9	1256.8
167.5°	1271.2	1270.8	1271.0	1271.2	1271.4	1271.5	1273.0	1274.4	1275.8	1277.2	1277.2
170°	1282.7	1282.2	1282.2	1282.2	1282.2	1282.2	1283.8	1285.5	1287.1	1288.6	1288.6
172.5°	1291.7	1291.3	1291.3	1291.3	1291.3	1291.3	1292.7	1294.1	1295.5	1297.0	1296.9
175°	1301.2	1300.8	1300.8	1300.8	1300.8	1300.8	1302.1	1303.5	1304.9	1306.2	1306.1
177.5°	1305.8	1305.4	1305.4	1305.4	1305.4	1305.4	1306.5	1307.7	1308.8	1309.9	1309.8
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	364.2	364.1	365.1	364.4	365.1	364.1	364.2	365.3	365.6	365.7	365.7
5°	339.1	339.6	337.7	337.7	337.7	339.6	339.1	340.2	341.0	341.8	342.9
7.5°	316.6	315.8	315.8	314.8	315.8	315.8	316.6	317.4	318.6	320.3	321.8
10°	302.9	301.7	301.3	301.6	301.3	301.7	302.9	305.1	305.8	307.3	309.0
12.5°	291.4	291.3	288.8	288.8	288.8	291.3	291.4	292.1	293.7	296.8	298.7
15°	278.1	274.6	274.3	275.4	274.3	274.6	278.1	278.1	278.8	281.2	282.3
17.5°	264.7	262.8	263.0	262.4	263.0	262.8	264.7	265.0	265.6	267.6	269.0
20°	257.6	256.5	256.4	255.1	256.4	256.5	257.6	257.6	258.4	259.3	260.8
22.5°	251.1	250.8	250.9	249.5	250.9	250.8	251.1	251.6	252.3	252.9	254.0
25°	243.0	244.0	243.2	243.2	243.2	244.0	243.0	243.2	243.4	244.3	245.1
27.5°	237.6	237.6	237.2	237.2	237.2	237.6	237.6	237.2	236.9	236.6	236.5
30°	233.5	233.3	233.6	233.6	233.6	233.3	233.5	232.7	232.3	232.2	231.4
32.5°	229.3	229.6	229.7	229.8	229.7	229.6	229.3	228.5	227.8	227.3	226.7
35°	222.9	223.2	223.7	223.3	223.7	223.2	222.9	221.8	221.1	220.0	219.0
37.5°	214.3	215.2	215.0	215.2	215.0	215.2	214.3	214.0	213.3	212.4	211.3
40°	207.8	208.3	208.2	208.2	208.2	208.3	207.8	207.6	206.9	206.4	205.4
42.5°	201.1	201.5	201.1	200.8	201.1	201.5	201.1	200.8	200.4	199.4	198.3
45°	190.3	189.9	190.4	189.7	190.4	189.9	190.3	189.6	189.3	188.6	187.7
47.5°	178.1	178.5	178.6	179.2	178.6	178.5	178.1	178.2	177.1	176.7	176.4
50°	170.0	171.1	171.1	170.9	171.1	171.1	170.0	169.6	168.9	168.1	168.1
52.5°	162.0	162.5	163.3	163.2	163.3	162.5	162.0	161.4	160.6	159.5	159.2
55°	149.6	150.0	150.4	150.6	150.4	150.0	149.6	148.2	147.7	147.1	146.2
57.5°	136.9	136.7	137.6	137.9	137.6	136.7	136.9	135.5	134.8	133.0	132.8
60°	127.9	127.9	129.4	129.9	129.4	127.9	127.9	126.4	125.2	124.1	123.7
62.5°	118.3	118.9	120.3	119.6	120.3	118.9	118.3	116.7	115.7	114.3	113.3
65°	104.3	105.8	105.6	106.3	105.6	105.8	104.3	103.4	101.3	100.1	98.9
67.5°	89.6	90.5	91.9	92.0	91.9	90.5	89.6	88.2	86.8	85.5	84.1
70°	79.7	80.6	81.4	81.9	81.4	80.6	79.7	78.3	76.8	75.8	74.4
72.5°	70.1	70.6	72.4	71.6	72.4	70.6	70.1	68.4	67.2	66.4	64.8
75°	55.0	56.3	57.4	56.9	57.4	56.3	55.0	53.7	52.8	51.7	50.2
77.5°	40.6	42.0	42.5	42.0	42.5	42.0	40.6	39.8	39.4	37.2	37.0
80°	32.1	31.9	33.0	32.9	33.0	31.9	32.1	30.8	29.9	28.6	28.6
82.5°	23.5	23.4	23.8	24.0	23.8	23.4	23.5	22.8	21.6	21.1	20.6
85°	11.4	12.0	11.2	11.1	11.2	12.0	11.4	10.7	10.7	10.7	10.5
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.5	8.9	8.3	8.1
90°	29.5	29.9	30.3	30.8	30.3	29.9	29.5	29.0	28.3	27.4	26.5
92.5°	42.3	42.1	41.7	41.5	41.7	42.1	42.3	42.6	42.4	41.7	40.9
95°	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	79.7	78.7	77.9
97.5°	123.6	123.5	123.4	123.3	123.4	123.5	123.6	123.7	123.2	122.2	121.0
100°	154.8	155.3	155.7	156.1	155.7	155.3	154.8	154.3	153.8	153.0	152.4
102.5°	190.1	190.0	190.0	189.9	190.0	190.0	190.1	190.2	190.0	189.3	188.5
105°	243.2	243.6	244.1	244.5	244.1	243.6	243.2	242.7	242.5	242.5	242.5
107.5°	302.3	302.0	301.7	301.4	301.7	302.0	302.3	302.5	302.3	301.6	300.9
110°	341.4	341.0	340.6	340.1	340.6	341.0	341.4	341.9	341.7	340.8	339.8



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	381.4	381.4	381.3	381.2	381.3	381.4	381.4	381.5	381.0	379.9	378.8
115°	438.4	438.2	437.9	437.7	437.9	438.2	438.4	438.6	438.6	438.4	438.2
117.5°	496.9	496.3	495.7	495.0	495.7	496.3	496.9	497.6	497.9	498.0	498.0
120°	536.7	536.2	535.8	535.3	535.8	536.2	536.7	537.1	537.5	537.7	537.9
122.5°	575.8	575.2	574.6	573.9	574.6	575.2	575.8	576.5	577.1	577.7	578.3
125°	634.6	633.7	632.8	631.8	632.8	633.7	634.6	635.6	636.4	637.4	638.3
127.5°	692.8	691.7	690.7	689.6	690.7	691.7	692.8	693.8	695.0	696.2	697.5
130°	732.2	730.6	729.0	727.5	729.0	730.6	732.2	733.8	735.1	736.0	736.9
132.5°	770.6	769.4	768.1	766.9	768.1	769.4	770.6	771.8	773.0	774.0	775.2
135°	829.5	829.0	828.5	828.1	828.5	829.0	829.5	830.0	830.6	831.6	832.4
137.5°	884.8	883.9	883.0	882.2	883.0	883.9	884.8	885.7	886.5	887.5	888.4
140°	922.3	920.7	919.1	917.5	919.1	920.7	922.3	923.9	924.8	925.0	925.3
142.5°	957.4	956.2	954.9	953.7	954.9	956.2	957.4	958.6	959.3	959.6	959.8
145°	1008.6	1007.7	1006.8	1005.8	1006.8	1007.7	1008.6	1009.6	1010.1	1010.3	1010.5
147.5°	1056.5	1055.0	1053.7	1052.3	1053.7	1055.0	1056.5	1057.8	1058.4	1058.4	1058.4
150°	1086.0	1084.7	1083.2	1081.9	1083.2	1084.7	1086.0	1087.3	1088.1	1088.1	1088.1
152.5°	1114.2	1113.0	1111.8	1110.6	1111.8	1113.0	1114.2	1115.4	1115.8	1115.5	1115.1
155°	1154.5	1152.9	1151.3	1149.7	1151.3	1152.9	1154.5	1156.1	1156.4	1155.6	1154.6
157.5°	1189.1	1187.8	1186.5	1185.3	1186.5	1187.8	1189.1	1190.3	1190.6	1189.5	1188.6
160°	1211.0	1210.1	1209.2	1208.2	1209.2	1210.1	1211.0	1212.0	1211.8	1210.7	1209.5
162.5°	1229.9	1228.4	1227.0	1225.5	1227.0	1228.4	1229.9	1231.4	1231.5	1230.4	1229.2
165°	1255.2	1253.6	1252.0	1250.4	1252.0	1253.6	1255.2	1256.8	1256.9	1255.5	1254.2
167.5°	1275.8	1274.4	1273.0	1271.5	1273.0	1274.4	1275.8	1277.2	1277.2	1275.8	1274.4
170°	1287.1	1285.5	1283.8	1282.2	1283.8	1285.5	1287.1	1288.6	1288.6	1287.1	1285.5
172.5°	1295.3	1293.6	1292.0	1290.5	1292.0	1293.6	1295.3	1296.9	1297.0	1295.5	1294.1
175°	1304.5	1302.9	1301.3	1299.7	1301.3	1302.9	1304.5	1306.1	1306.2	1304.9	1303.5
177.5°	1308.4	1307.2	1305.9	1304.6	1305.9	1307.2	1308.4	1309.8	1309.9	1308.8	1307.7
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	365.3	365.3	368.0	369.9	372.1	373.5	374.5	375.6	377.4	379.7	382.4
5°	344.4	345.1	349.2	353.2	357.1	360.4	363.2	366.5	370.6	375.6	381.1
7.5°	324.2	327.0	331.1	336.0	341.4	346.3	351.2	356.6	362.4	369.7	377.5
10°	311.2	314.3	319.2	325.6	331.3	337.0	343.1	349.0	356.2	364.9	374.9
12.5°	299.8	302.8	307.9	314.7	320.2	326.5	333.5	341.2	349.3	359.7	371.0
15°	284.0	287.6	293.8	297.1	305.5	313.0	319.5	330.5	340.9	351.6	364.6
17.5°	271.1	273.1	278.1	284.3	290.5	299.0	307.4	316.7	327.0	340.1	356.5
20°	262.2	263.9	269.4	275.9	282.6	290.3	297.9	307.1	318.7	332.6	350.3
22.5°	255.6	257.4	261.0	267.9	274.1	280.6	288.1	299.1	311.5	325.0	344.2
25°	246.0	247.1	249.5	255.1	260.5	267.8	274.4	284.8	297.5	313.4	332.6
27.5°	236.9	238.0	240.0	243.9	249.1	254.9	262.2	270.9	283.8	301.1	321.5
30°	231.4	231.6	233.5	237.2	241.6	246.4	253.0	263.0	275.2	292.7	314.1
32.5°	226.7	226.0	227.3	230.0	234.3	239.2	244.6	254.4	266.2	283.4	305.4
35°	218.7	218.3	217.8	220.1	223.9	227.5	232.3	239.7	253.0	269.1	292.2
37.5°	210.6	209.6	208.7	209.8	212.6	216.5	220.6	227.2	238.7	256.4	278.5
40°	204.5	203.7	203.2	202.8	205.4	209.1	212.2	218.5	229.2	246.0	267.8
42.5°	197.8	197.4	196.7	196.1	198.3	201.1	204.4	209.9	220.6	236.4	257.0
45°	187.1	186.8	186.4	186.0	187.4	189.9	192.5	196.5	205.8	221.1	239.7
47.5°	175.2	174.8	174.9	174.3	175.5	177.3	179.1	183.5	192.3	204.7	218.3
50°	166.7	166.4	166.4	166.4	166.8	168.9	170.6	173.9	182.0	194.3	204.1
52.5°	158.5	157.7	157.7	158.0	158.8	160.0	161.1	164.7	171.7	182.0	190.8
55°	145.8	144.3	143.9	144.3	144.9	146.0	147.1	150.0	156.1	163.7	168.9
57.5°	131.7	130.9	130.4	130.5	130.8	131.7	132.5	135.7	140.5	144.5	147.8
60°	121.8	122.2	120.5	120.9	120.9	121.6	122.9	124.9	129.0	131.7	135.1
62.5°	112.5	112.0	111.5	111.0	111.0	111.3	113.0	114.6	118.1	119.5	122.1
65°	98.0	98.0	96.9	97.3	97.4	96.2	97.0	98.9	101.2	101.7	104.1
67.5°	83.3	82.8	82.1	81.6	81.6	81.5	82.0	82.9	84.5	84.8	86.6
70°	73.3	72.9	72.7	72.2	71.5	72.3	71.8	72.7	73.7	73.8	74.9
72.5°	63.5	63.1	62.8	62.3	61.9	61.9	61.9	63.0	63.6	63.4	64.6
75°	49.7	49.3	48.9	48.0	48.0	47.5	47.6	48.3	49.1	48.6	49.7
77.5°	36.4	35.3	35.3	35.5	34.9	35.0	34.8	34.7	35.0	35.0	36.0
80°	28.0	26.8	27.1	26.9	26.8	26.5	26.2	26.4	26.5	26.8	27.3
82.5°	20.2	20.1	19.7	19.7	19.5	19.0	18.9	19.2	19.3	19.3	19.6
85°	10.3	9.7	10.1	10.0	10.1	10.0	9.4	9.4	9.7	9.6	10.0
87.5°	8.2	8.0	7.3	6.8	6.1	5.6	5.0	4.7	4.4	3.9	3.7
90°	25.6	24.6	21.7	18.7	15.8	12.8	10.1	7.8	5.6	3.3	1.0
92.5°	40.2	39.5	37.8	36.0	34.4	32.7	31.1	29.5	28.0	26.4	24.9
95°	76.9	76.0	74.2	72.4	70.6	68.8	67.0	65.4	63.8	62.2	60.6
97.5°	120.0	119.0	117.6	116.3	115.0	113.7	112.4	111.2	110.0	108.8	107.7
100°	151.7	151.1	149.9	148.8	147.6	146.5	145.2	143.9	142.4	141.1	139.7
102.5°	187.9	187.2	185.7	184.2	182.7	181.2	180.0	179.2	178.4	177.5	176.7
105°	242.5	242.5	240.4	238.4	236.3	234.2	233.0	232.5	232.1	231.6	231.2
107.5°	300.2	299.4	298.6	297.8	296.9	296.1	295.6	295.3	295.0	294.8	294.5
110°	339.0	338.0	337.5	337.2	336.7	336.2	335.7	335.3	334.9	334.4	333.9



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	377.8	376.7	376.6	376.4	376.4	376.3	376.1	375.8	375.6	375.3	375.0
115°	437.9	437.7	438.2	438.6	439.0	439.5	439.4	438.7	438.0	437.4	436.7
117.5°	498.0	498.1	498.7	499.3	499.9	500.5	500.6	500.1	499.6	499.2	498.8
120°	538.1	538.4	539.6	540.7	541.8	543.0	542.8	541.5	540.1	538.7	537.3
122.5°	578.8	579.5	580.0	580.7	581.2	581.9	581.6	580.7	579.6	578.6	577.7
125°	639.2	640.1	640.6	641.0	641.4	641.9	641.8	641.1	640.4	639.8	639.1
127.5°	698.8	700.1	700.6	701.1	701.6	702.1	701.6	700.1	698.7	697.3	695.8
130°	737.8	738.7	739.4	740.1	740.8	741.5	740.9	739.1	737.3	735.4	733.6
132.5°	776.3	777.4	777.8	778.4	778.9	779.3	778.7	776.9	775.1	773.2	771.4
135°	833.4	834.2	834.5	834.7	835.0	835.2	834.6	833.2	831.9	830.5	829.2
137.5°	889.4	890.4	889.8	889.2	888.6	888.0	887.2	886.0	884.9	883.7	882.6
140°	925.5	925.7	925.5	925.3	925.0	924.8	924.2	923.0	921.9	920.7	919.6
142.5°	960.0	960.3	959.8	959.4	959.0	958.6	957.8	956.7	955.5	954.4	953.2
145°	1010.7	1011.0	1010.3	1009.6	1008.9	1008.3	1007.7	1007.3	1006.8	1006.3	1005.8
147.5°	1058.4	1058.4	1057.8	1057.2	1056.5	1055.9	1055.2	1054.4	1053.5	1052.7	1051.9
150°	1088.1	1088.1	1087.6	1087.1	1086.7	1086.2	1085.8	1085.3	1084.9	1084.4	1083.9
152.5°	1114.8	1114.4	1114.1	1113.8	1113.6	1113.3	1112.8	1112.1	1111.5	1110.9	1110.2
155°	1153.7	1152.8	1152.5	1152.3	1152.1	1151.9	1151.8	1151.8	1151.8	1151.8	1151.8
157.5°	1187.6	1186.7	1186.5	1186.3	1186.1	1186.0	1186.0	1186.3	1186.5	1186.8	1187.1
160°	1208.4	1207.2	1207.2	1207.2	1207.2	1207.2	1207.4	1207.9	1208.4	1208.9	1209.3
162.5°	1228.1	1226.9	1226.8	1226.6	1226.5	1226.2	1226.5	1227.1	1227.7	1228.4	1229.0
165°	1252.8	1251.4	1251.4	1251.4	1251.4	1251.4	1251.8	1252.4	1253.2	1253.8	1254.5
167.5°	1273.0	1271.5	1271.4	1271.2	1271.0	1270.8	1271.2	1272.1	1273.0	1273.9	1274.9
170°	1283.8	1282.2	1282.2	1282.2	1282.2	1282.2	1282.7	1283.7	1284.5	1285.5	1286.3
172.5°	1292.7	1291.3	1291.3	1291.3	1291.3	1291.3	1291.7	1292.7	1293.6	1294.5	1295.4
175°	1302.1	1300.8	1300.8	1300.8	1300.8	1300.8	1301.2	1302.1	1303.1	1303.9	1304.9
177.5°	1306.5	1305.4	1305.4	1305.4	1305.4	1305.4	1305.8	1306.5	1307.3	1308.1	1308.8
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	383.3	384.0	386.5	388.3	390.4	391.6	392.7	393.6	394.8	395.1	399.3
5°	385.0	388.6	395.1	399.9	405.8	412.3	416.7	418.7	424.1	428.5	437.4
7.5°	384.5	392.4	402.1	412.3	423.0	433.1	441.8	452.2	459.5	470.6	481.4
10°	384.0	394.6	407.1	420.0	435.1	449.2	461.8	475.8	487.4	502.7	515.8
12.5°	382.7	395.5	412.9	428.2	446.6	465.9	484.5	502.5	512.8	538.3	550.3
15°	379.5	394.6	416.4	439.6	464.9	487.7	511.4	530.2	560.6	583.0	597.2
17.5°	373.2	394.3	420.2	448.2	479.0	509.1	535.9	564.4	596.8	623.8	652.6
20°	370.2	393.5	422.2	453.3	485.2	519.4	549.8	584.1	619.3	645.9	682.9
22.5°	364.7	391.1	422.1	456.6	490.8	526.1	561.7	596.4	637.1	673.7	708.8
25°	355.8	385.3	417.5	456.1	496.1	531.5	574.2	620.1	662.5	709.6	744.7
27.5°	346.4	378.0	410.1	446.0	489.1	531.2	584.8	636.7	688.6	729.2	755.2
30°	339.2	369.9	403.1	439.3	481.9	531.9	591.8	648.5	699.1	734.0	748.5
32.5°	331.4	362.4	391.8	429.8	475.2	531.4	596.3	655.5	699.7	722.9	720.0
35°	319.1	345.1	373.8	410.3	463.7	528.1	598.9	656.1	683.2	678.2	640.6
37.5°	301.3	323.3	351.4	391.4	450.5	521.3	593.7	636.6	634.9	594.3	539.7
40°	290.3	309.0	336.0	378.1	440.1	516.9	585.6	613.5	589.9	533.1	467.9
42.5°	275.8	293.0	320.1	363.4	428.8	507.9	570.1	578.1	532.0	466.8	406.9
45°	253.4	268.5	296.6	341.3	411.7	488.3	532.3	512.5	450.3	382.9	337.4
47.5°	229.3	245.0	272.0	317.9	387.1	458.8	479.7	437.8	373.9	319.2	277.4
50°	214.0	229.2	255.6	301.9	370.4	434.6	443.3	389.0	330.3	282.3	248.0
52.5°	198.8	212.9	238.9	285.4	350.9	406.5	401.2	345.9	292.0	251.0	224.1
55°	175.9	189.3	214.0	257.6	317.3	361.3	342.0	289.2	244.5	212.8	192.3
57.5°	155.4	168.3	189.6	229.0	280.8	311.2	286.5	242.0	206.5	182.0	166.8
60°	141.6	153.0	173.3	209.8	254.8	277.9	253.6	214.3	184.3	164.8	151.1
62.5°	128.4	138.4	157.2	190.4	229.5	248.8	224.2	190.9	165.5	148.1	136.5
65°	108.5	117.6	134.2	160.0	192.1	205.0	183.8	156.9	137.1	124.2	116.5
67.5°	90.4	98.1	112.4	132.7	156.4	165.7	149.6	128.7	113.8	103.5	97.4
70°	78.3	84.9	96.2	113.7	135.1	142.3	127.1	110.0	99.1	90.8	85.1
72.5°	68.0	73.0	83.2	96.7	114.5	120.3	109.7	94.7	84.5	78.3	73.7
75°	51.9	55.9	62.6	73.4	85.8	89.1	81.2	71.8	65.0	60.5	57.0
77.5°	37.4	40.4	45.2	51.9	60.4	63.5	58.5	52.1	47.1	44.2	42.2
80°	28.2	30.7	34.7	40.2	45.4	47.1	44.1	39.3	35.8	34.1	32.5
82.5°	20.8	22.2	24.6	28.4	31.9	33.9	31.4	28.5	26.6	25.1	24.5
85°	10.5	11.2	12.4	13.9	16.1	16.8	15.8	15.1	14.0	13.1	13.1
87.5°	4.5	5.0	5.9	6.6	7.8	8.8	9.2	9.5	10.0	10.0	10.1
90°	3.3	5.6	7.8	10.1	12.8	15.8	18.7	21.7	24.6	25.6	26.5
92.5°	26.4	28.0	29.5	31.1	32.7	34.4	36.0	37.8	39.5	40.2	40.9
95°	62.2	63.8	65.4	67.0	68.8	70.6	72.4	74.2	76.0	76.9	77.9
97.5°	108.8	110.0	111.2	112.4	113.7	115.0	116.3	117.6	119.0	120.0	121.0
100°	141.1	142.4	143.9	145.2	146.5	147.6	148.8	149.9	151.1	151.7	152.4
102.5°	177.5	178.4	179.2	180.0	181.2	182.7	184.2	185.7	187.2	187.9	188.5
105°	231.6	232.1	232.5	233.0	234.2	236.3	238.4	240.4	242.5	242.5	242.5
107.5°	294.8	295.0	295.3	295.6	296.1	296.9	297.8	298.6	299.4	300.2	300.9
110°	334.4	334.9	335.3	335.7	336.2	336.7	337.2	337.5	338.0	339.0	339.8



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	375.3	375.6	375.8	376.1	376.3	376.4	376.4	376.6	376.7	377.8	378.8
115°	437.4	438.0	438.7	439.4	439.5	439.0	438.6	438.2	437.7	437.9	438.2
117.5°	499.2	499.6	500.1	500.6	500.5	499.9	499.3	498.7	498.1	498.0	498.0
120°	538.7	540.1	541.5	542.8	543.0	541.8	540.7	539.6	538.4	538.1	537.9
122.5°	578.6	579.6	580.7	581.6	581.9	581.2	580.7	580.0	579.5	578.8	578.3
125°	639.8	640.4	641.1	641.8	641.9	641.4	641.0	640.6	640.1	639.2	638.3
127.5°	697.3	698.7	700.1	701.6	702.1	701.6	701.1	700.6	700.1	698.8	697.5
130°	735.4	737.3	739.1	740.9	741.5	740.8	740.1	739.4	738.7	737.8	736.9
132.5°	773.2	775.1	776.9	778.7	779.3	778.9	778.4	777.8	777.4	776.3	775.2
135°	830.5	831.9	833.2	834.6	835.2	835.0	834.7	834.5	834.2	833.4	832.4
137.5°	883.7	884.9	886.0	887.2	888.0	888.6	889.2	889.8	890.4	889.4	888.4
140°	920.7	921.9	923.0	924.2	924.8	925.0	925.3	925.5	925.7	925.5	925.3
142.5°	954.4	955.5	956.7	957.8	958.6	959.0	959.4	959.8	960.3	960.0	959.8
145°	1006.3	1006.8	1007.3	1007.7	1008.3	1008.9	1009.6	1010.3	1011.0	1010.7	1010.5
147.5°	1052.7	1053.5	1054.4	1055.2	1055.9	1056.5	1057.2	1057.8	1058.4	1058.4	1058.4
150°	1084.4	1084.9	1085.3	1085.8	1086.2	1086.7	1087.1	1087.6	1088.1	1088.1	1088.1
152.5°	1110.9	1111.5	1112.1	1112.8	1113.3	1113.6	1113.8	1114.1	1114.4	1114.8	1115.1
155°	1151.8	1151.8	1151.8	1151.8	1151.9	1152.1	1152.3	1152.5	1152.8	1153.7	1154.6
157.5°	1186.8	1186.5	1186.3	1186.0	1186.0	1186.1	1186.3	1186.5	1186.7	1187.6	1188.6
160°	1208.9	1208.4	1207.9	1207.4	1207.2	1207.2	1207.2	1207.2	1207.2	1208.4	1209.5
162.5°	1228.4	1227.7	1227.1	1226.5	1226.2	1226.5	1226.6	1226.8	1226.9	1228.1	1229.2
165°	1253.8	1253.2	1252.4	1251.8	1251.4	1251.4	1251.4	1251.4	1251.4	1252.8	1254.2
167.5°	1273.9	1273.0	1272.1	1271.2	1270.8	1271.0	1271.2	1271.4	1271.5	1273.0	1274.4
170°	1285.5	1284.5	1283.7	1282.7	1282.2	1282.2	1282.2	1282.2	1282.2	1283.8	1285.5
172.5°	1294.5	1293.6	1292.7	1291.7	1291.3	1291.3	1291.3	1291.3	1291.3	1292.7	1294.1
175°	1303.9	1303.1	1302.1	1301.2	1300.8	1300.8	1300.8	1300.8	1300.8	1302.1	1303.5
177.5°	1308.1	1307.3	1306.5	1305.8	1305.4	1305.4	1305.4	1305.4	1305.4	1306.5	1307.7
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	400.8	401.0	402.6	403.8	403.2	403.9	404.3
5°	437.9	444.6	448.1	450.7	450.8	451.1	452.5
7.5°	490.5	497.6	502.9	510.8	513.1	515.8	515.1
10°	528.9	539.5	548.5	553.3	558.5	566.0	559.9
12.5°	564.8	583.4	597.2	604.7	609.5	611.0	608.1
15°	624.0	648.3	661.4	661.1	677.6	684.8	673.6
17.5°	678.2	700.7	718.7	727.9	741.8	744.8	743.5
20°	711.5	736.0	750.0	765.9	773.1	779.5	780.6
22.5°	740.1	762.2	777.2	790.4	796.4	799.5	801.3
25°	769.6	787.0	796.0	800.6	802.2	801.8	799.5
27.5°	767.5	768.9	758.9	749.2	740.4	730.6	727.1
30°	747.6	732.1	704.4	688.7	665.7	647.4	654.8
32.5°	695.2	664.3	633.3	599.0	570.6	562.5	554.4
35°	593.3	539.1	507.3	470.4	455.7	440.9	430.7
37.5°	480.0	438.1	400.4	376.3	361.5	352.1	347.1
40°	415.0	377.2	346.2	326.6	315.4	304.9	303.4
42.5°	363.2	328.0	304.8	289.1	278.4	273.9	270.6
45°	297.5	273.0	257.3	246.2	239.0	236.2	232.5
47.5°	251.8	234.5	222.7	215.2	209.7	207.6	207.4
50°	226.2	211.8	203.2	197.3	193.1	192.3	189.3
52.5°	207.1	194.6	187.8	182.7	179.6	177.5	176.7
55°	179.7	171.4	165.3	162.4	160.0	158.0	158.0
57.5°	157.2	150.4	146.3	143.8	143.1	141.6	140.7
60°	143.4	137.5	134.4	132.1	130.6	130.9	129.2
62.5°	129.8	126.0	122.9	120.8	119.0	119.1	119.1
65°	110.5	107.6	105.4	104.6	103.5	102.3	102.6
67.5°	93.7	90.9	89.2	87.9	87.5	86.8	87.9
70°	81.6	79.5	78.3	77.2	76.8	76.9	77.9
72.5°	70.5	69.1	68.2	67.7	66.9	66.9	67.6
75°	55.4	54.3	53.6	53.0	52.8	52.8	52.8
77.5°	40.6	40.4	40.1	39.3	39.3	39.5	39.5
80°	32.1	31.5	31.4	31.0	30.4	30.1	31.0
82.5°	24.0	23.4	23.3	23.2	22.3	22.3	23.1
85°	12.9	12.4	12.5	12.4	12.4	12.2	12.2
87.5°	10.1	10.1	10.1	10.3	10.3	10.2	10.6
90°	27.4	28.3	29.0	29.5	29.9	30.3	30.8
92.5°	41.7	42.4	42.6	42.3	42.1	41.7	41.5
95°	78.7	79.7	80.2	80.2	80.2	80.2	80.2
97.5°	122.2	123.2	123.7	123.6	123.5	123.4	123.3
100°	153.0	153.8	154.3	154.8	155.3	155.7	156.1
102.5°	189.3	190.0	190.2	190.1	190.0	190.0	189.9
105°	242.5	242.5	242.7	243.2	243.6	244.1	244.5
107.5°	301.6	302.3	302.5	302.3	302.0	301.7	301.4
110°	340.8	341.7	341.9	341.4	341.0	340.6	340.1



TEST NUMBER: P332109-927

CATALOG NUMBER: S123DIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	379.9	381.0	381.5	381.4	381.4	381.3	381.2
115°	438.4	438.6	438.6	438.4	438.2	437.9	437.7
117.5°	498.0	497.9	497.6	496.9	496.3	495.7	495.0
120°	537.7	537.5	537.1	536.7	536.2	535.8	535.3
122.5°	577.7	577.1	576.5	575.8	575.2	574.6	573.9
125°	637.4	636.4	635.6	634.6	633.7	632.8	631.8
127.5°	696.2	695.0	693.8	692.8	691.7	690.7	689.6
130°	736.0	735.1	733.8	732.2	730.6	729.0	727.5
132.5°	774.0	773.0	771.8	770.6	769.4	768.1	766.9
135°	831.6	830.6	830.0	829.5	829.0	828.5	828.1
137.5°	887.5	886.5	885.7	884.8	883.9	883.0	882.2
140°	925.0	924.8	923.9	922.3	920.7	919.1	917.5
142.5°	959.6	959.3	958.6	957.4	956.2	954.9	953.7
145°	1010.3	1010.1	1009.6	1008.6	1007.7	1006.8	1005.8
147.5°	1058.4	1058.4	1057.8	1056.5	1055.0	1053.7	1052.3
150°	1088.1	1088.1	1087.3	1086.0	1084.7	1083.2	1081.9
152.5°	1115.5	1115.8	1115.4	1114.2	1113.0	1111.8	1110.6
155°	1155.6	1156.4	1156.1	1154.5	1152.9	1151.3	1149.7
157.5°	1189.5	1190.6	1190.3	1189.1	1187.8	1186.5	1185.3
160°	1210.7	1211.8	1212.0	1211.0	1210.1	1209.2	1208.2
162.5°	1230.4	1231.5	1231.4	1229.9	1228.4	1227.0	1225.5
165°	1255.5	1256.9	1256.8	1255.2	1253.6	1252.0	1250.4
167.5°	1275.8	1277.2	1277.2	1275.8	1274.4	1273.0	1271.5
170°	1287.1	1288.6	1288.6	1287.1	1285.5	1283.8	1282.2
172.5°	1295.5	1297.0	1296.9	1295.3	1293.6	1292.0	1290.5
175°	1304.9	1306.2	1306.1	1304.5	1302.9	1301.3	1299.7
177.5°	1308.8	1309.9	1309.8	1308.4	1307.2	1305.9	1304.6
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0

(END OF REPORT)