

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: P331276-930

Luminaire Tested: **S122DIP-S290D1080U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331276-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S290D1080U930-4F0-1E-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: 4576.3 lumens
Efficiency: N/A
Efficacy: 108.4 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

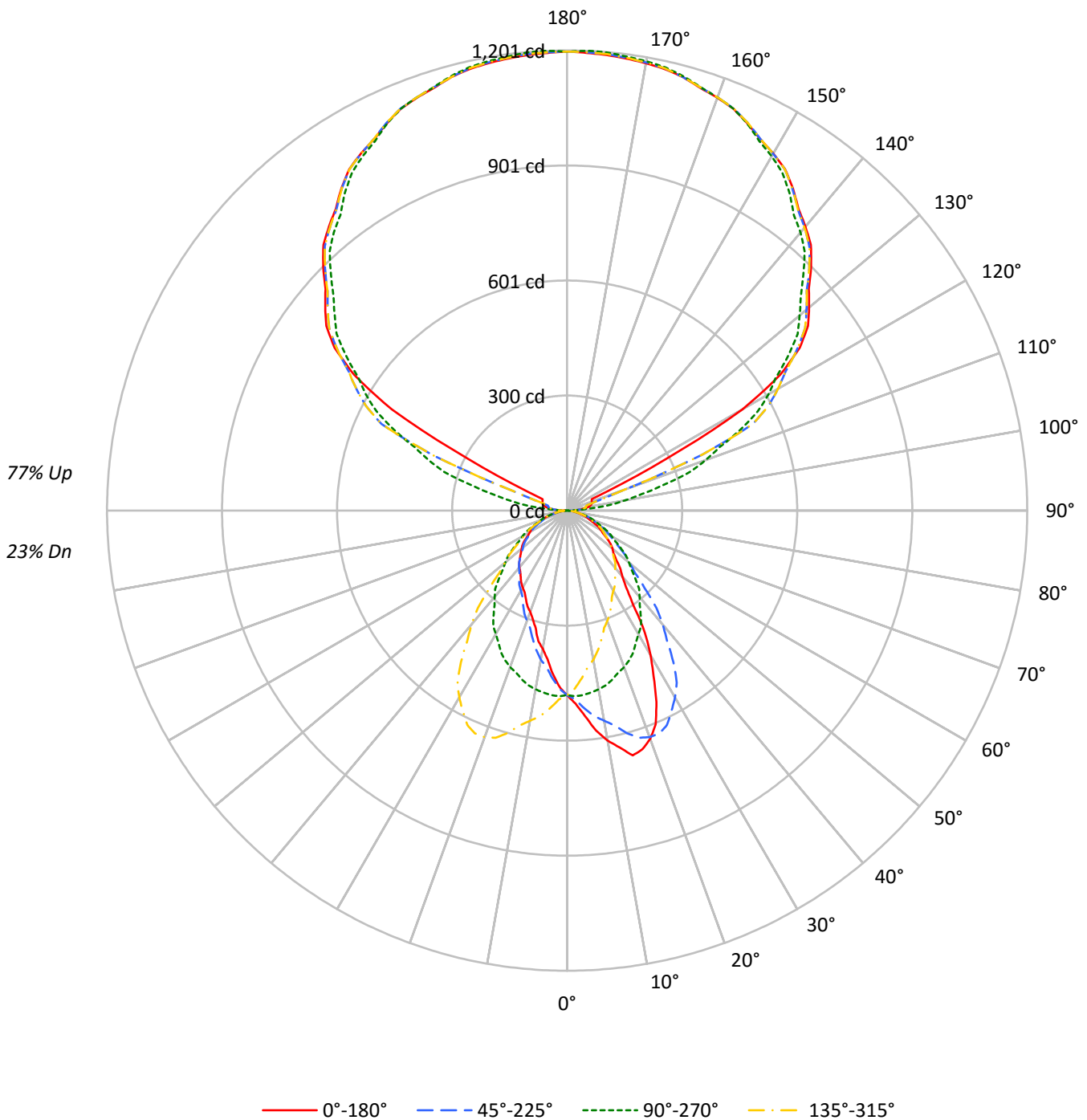
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7781	7781	7781	7781
5°	8723	7831	6940	7831
10°	9996	7768	6005	7768
15°	11057	7626	5307	7626
20°	10890	7472	4837	7472
25°	9818	7269	4541	7269
30°	8114	6943	4323	6943
35°	5913	6603	4169	6603
40°	4723	6203	4083	6203
45°	4128	5740	3966	5740
50°	3881	5290	3888	5290
55°	3575	4833	3783	4833
60°	3278	4346	3626	4346
65°	2988	3912	3465	3912
70°	2710	3489	3238	3489
75°	2408	3013	2863	3013
80°	2073	2492	2306	2492
85°	1853	1853	1371	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.0
10°-20°	133.4	2.9
20°-30°	193.6	4.2
30°-40°	204.3	4.5
40°-50°	180.9	4.0
50°-60°	144.4	3.2
60°-70°	98.1	2.1
70°-80°	50.3	1.1
80°-90°	15.1	0.3
90°-100°	40.0	0.9
100°-110°	146.5	3.2
110°-120°	391.7	8.6
120°-130°	646.5	14.1
130°-140°	687.6	15.0
140°-150°	639.1	14.0
150°-160°	513.8	11.2
160°-170°	331.1	7.2
170°-180°	114.0	2.5
0°-30°	373.0	8.1
0°-40°	577.3	12.6
0°-60°	902.6	19.7
0°-90°	1066.1	23.3
90°-120°	578.1	12.6
90°-150°	2551.3	55.7
90°-180°	3510.0	76.7
0°-180°	4576.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	482	482	482	482	482	
5°	538	483	428	483	538	54
15°	662	456	318	456	662	183
25°	551	408	255	408	551	249
35°	300	335	212	335	300	195
45°	181	251	174	251	181	142
55°	127	172	134	172	127	114
65°	78	102	91	102	78	78
75°	39	48	46	48	39	41
85°	10	10	7	10	10	12
90°	23	1	23	1	23	11
95°	37	56	37	56	37	35
105°	66	264	66	264	66	68
115°	71	498	71	498	71	178
125°	741	705	741	705	741	641
135°	900	872	900	872	900	694
145°	1027	1012	1027	1012	1027	642
155°	1115	1114	1115	1114	1115	514
165°	1171	1174	1171	1174	1171	331
175°	1193	1200	1193	1200	1193	114
180°	1198	1198	1198	1198	1198	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	504.1	504.3	504.6	502.2	501.9	501.9	499.9	498.1	495.9	493.2	493.5
5°	538.2	540.2	541.0	538.7	535.4	535.1	531.9	526.8	521.9	518.0	515.3
7.5°	578.9	579.7	577.9	574.9	572.5	568.0	562.1	556.4	548.4	541.0	535.6
10°	609.7	610.8	607.6	603.4	599.9	594.7	586.2	577.5	567.0	556.8	548.6
12.5°	633.1	635.9	631.8	631.3	625.3	618.1	608.0	603.6	588.7	574.5	565.7
15°	661.5	661.4	661.8	658.2	653.8	652.6	642.0	630.2	609.4	601.0	586.5
17.5°	653.3	656.2	657.5	657.4	657.3	656.6	653.1	645.8	635.3	621.7	605.1
20°	633.8	637.5	638.1	642.3	644.7	647.8	649.1	647.1	640.7	629.3	614.9
22.5°	603.6	604.6	606.3	612.9	618.2	626.1	630.1	637.1	634.5	629.0	616.9
25°	551.1	549.3	555.8	559.1	571.2	583.8	592.9	602.8	611.7	617.1	613.6
27.5°	488.3	485.5	495.2	504.1	513.8	527.5	541.6	558.3	572.2	589.6	595.6
30°	435.2	436.9	446.1	455.6	470.4	489.7	505.6	523.9	543.8	563.2	576.7
32.5°	378.1	384.4	390.3	404.8	417.8	439.3	462.7	485.6	510.3	532.4	553.3
35°	300.0	307.4	315.6	326.1	344.5	365.7	388.6	419.5	453.2	483.4	508.2
37.5°	252.6	251.4	256.0	263.7	278.5	295.7	322.0	352.5	392.2	427.6	462.7
40°	224.1	223.4	226.7	233.7	245.0	257.6	280.6	307.4	344.3	387.7	429.3
42.5°	204.6	205.0	206.8	211.8	219.6	229.9	247.1	269.9	303.7	344.5	389.3
45°	180.8	182.1	184.1	186.5	190.9	199.5	209.1	225.4	252.1	286.2	330.2
47.5°	163.6	163.7	165.8	167.9	170.5	175.3	183.2	193.4	212.2	239.9	277.9
50°	154.5	153.2	154.7	156.3	159.1	162.4	167.6	177.2	189.8	212.2	243.9
52.5°	143.2	143.2	144.6	145.2	147.7	151.0	155.7	162.4	173.8	191.4	217.4
55°	127.0	128.0	128.7	129.8	132.1	134.4	138.2	142.6	151.5	164.6	183.9
57.5°	111.9	112.2	112.9	115.0	116.4	118.6	122.1	126.2	132.0	141.7	156.2
60°	101.5	101.5	103.0	103.9	105.7	107.9	110.7	114.6	119.8	127.8	139.5
62.5°	92.0	91.9	92.5	94.0	95.4	97.4	100.2	103.5	108.4	115.5	125.1
65°	78.2	77.8	78.9	79.2	80.7	82.8	85.0	88.5	92.5	97.6	106.2
67.5°	64.8	65.3	65.9	66.5	67.3	69.5	71.0	73.5	76.8	81.1	86.8
70°	57.4	57.4	57.4	58.0	59.1	60.2	61.6	63.7	66.9	70.5	75.7
72.5°	49.1	49.7	50.3	50.0	51.4	52.0	53.8	55.0	58.0	60.3	64.9
75°	38.6	38.6	38.6	39.5	40.0	40.5	41.7	42.8	44.3	47.2	49.7
77.5°	28.8	28.7	28.9	29.1	29.7	30.3	30.7	31.6	33.0	34.4	36.4
80°	22.3	22.6	22.7	23.2	23.2	23.5	23.7	25.0	25.9	26.8	28.1
82.5°	17.2	17.3	17.3	17.4	17.5	17.8	18.3	18.7	19.0	19.7	20.7
85°	10.0	9.8	9.8	10.2	10.0	10.0	10.4	10.8	10.8	10.9	11.5
87.5°	8.6	8.5	8.6	8.3	8.2	8.2	8.1	7.7	7.7	7.6	7.4
90°	23.4	23.0	22.7	22.3	21.9	21.2	20.2	19.2	18.3	17.4	15.8
92.5°	23.4	23.2	22.9	22.7	22.5	22.1	21.6	21.1	20.6	20.1	19.3
95°	37.3	37.4	37.7	37.8	38.1	37.7	36.7	35.7	34.7	33.8	32.4
97.5°	49.7	49.5	49.3	49.1	48.8	48.3	47.5	46.8	46.0	45.2	42.2
100°	58.0	57.7	57.3	56.9	56.5	55.6	54.1	52.5	51.0	49.4	46.1
102.5°	62.2	61.7	61.1	60.6	60.1	58.8	56.8	54.8	52.8	50.8	47.2
105°	65.9	65.1	64.3	63.6	62.8	61.3	59.2	57.1	55.0	52.8	49.3
107.5°	67.8	67.0	66.2	65.5	64.7	63.4	62.5	61.7	61.8	61.8	61.8
110°	68.5	67.7	66.9	66.1	65.4	64.6	63.9	63.2	63.4	63.6	63.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	69.1	68.6	67.9	67.3	66.7	101.5	171.8	242.1	312.3	382.5	396.3
115°	71.1	85.0	98.8	112.7	126.5	178.1	267.3	356.4	445.6	534.8	529.9
117.5°	290.2	335.7	381.3	426.9	472.5	506.1	527.6	549.2	570.7	592.3	589.0
120°	528.7	554.6	580.7	606.7	632.7	644.6	642.2	639.9	637.6	635.3	631.9
122.5°	659.7	664.8	669.8	674.9	679.9	681.8	680.4	679.0	677.6	676.2	672.5
125°	741.0	740.5	739.9	739.3	738.7	737.8	736.4	735.1	733.7	732.4	728.7
127.5°	792.3	792.2	792.1	792.0	791.9	790.8	788.9	786.9	785.0	783.0	780.2
130°	824.3	824.4	824.6	824.8	825.0	824.0	821.9	819.8	817.7	815.5	813.4
132.5°	855.4	855.7	855.8	856.0	856.2	855.4	853.6	851.7	849.9	848.2	846.0
135°	900.5	900.9	901.2	901.6	902.0	901.2	899.4	897.4	895.5	893.6	891.9
137.5°	941.6	942.2	942.9	943.5	944.2	943.5	941.7	939.8	937.9	936.0	934.1
140°	967.3	968.2	969.1	970.1	971.1	970.7	969.0	967.3	965.5	963.8	961.6
142.5°	992.2	993.2	994.1	995.1	996.1	995.7	994.2	992.5	991.0	989.4	987.0
145°	1027.0	1028.0	1029.0	1030.0	1030.9	1030.7	1029.3	1028.0	1026.6	1025.3	1022.1
147.5°	1057.7	1058.5	1059.3	1060.1	1060.9	1060.9	1059.9	1058.8	1057.9	1056.9	1053.6
150°	1076.4	1077.4	1078.4	1079.3	1080.3	1080.2	1079.0	1077.9	1076.8	1075.5	1072.5
152.5°	1092.4	1093.6	1094.9	1096.2	1097.5	1097.6	1096.4	1095.2	1094.1	1092.9	1090.0
155°	1114.6	1116.1	1117.7	1119.2	1120.7	1121.0	1119.8	1118.6	1117.4	1116.3	1114.0
157.5°	1134.8	1136.4	1137.8	1139.4	1140.8	1140.9	1139.6	1138.3	1137.0	1135.7	1134.1
160°	1146.6	1148.0	1149.3	1150.7	1152.0	1152.1	1151.0	1149.8	1148.7	1147.5	1146.4
162.5°	1156.3	1158.0	1159.7	1161.3	1162.9	1163.2	1161.8	1160.5	1159.2	1157.9	1156.9
165°	1170.9	1172.2	1173.6	1174.9	1176.3	1176.3	1174.9	1173.6	1172.2	1170.9	1170.4
167.5°	1180.1	1181.9	1183.6	1185.3	1187.0	1187.2	1185.9	1184.5	1183.2	1181.9	1181.3
170°	1185.6	1187.4	1189.1	1190.8	1192.5	1192.8	1191.4	1190.1	1188.7	1187.4	1187.0
172.5°	1189.8	1191.6	1193.3	1195.0	1196.8	1196.9	1195.6	1194.3	1192.9	1191.6	1191.2
175°	1193.4	1195.4	1197.3	1199.2	1201.2	1201.4	1200.1	1198.7	1197.4	1196.0	1195.6
177.5°	1195.7	1197.1	1198.5	1199.9	1201.3	1201.4	1200.3	1199.2	1198.2	1197.1	1196.9
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	494.5	493.3	492.6	489.9	487.5	485.2	484.5	484.7	481.4	478.3	477.0
5°	513.8	510.1	506.5	501.6	495.6	489.1	485.8	483.2	476.7	469.7	465.6
7.5°	531.0	525.7	518.9	509.6	500.9	490.7	484.2	478.5	469.0	459.1	453.0
10°	541.5	534.3	525.6	514.1	503.6	491.1	482.5	473.8	462.7	450.8	443.4
12.5°	550.6	540.9	532.3	517.6	505.1	489.5	479.2	466.9	455.3	441.2	433.9
15°	572.1	554.2	537.9	521.1	505.8	484.1	472.6	456.2	440.8	423.4	415.1
17.5°	588.7	568.5	542.9	521.7	503.8	479.7	462.9	443.2	425.0	405.1	393.8
20°	598.2	575.0	547.5	522.3	500.8	473.4	455.0	434.9	413.6	391.2	379.0
22.5°	603.8	579.5	552.2	520.1	494.9	468.2	445.2	423.0	401.5	377.2	364.4
25°	605.6	583.4	554.5	518.2	487.5	457.3	429.5	408.0	381.9	359.3	340.6
27.5°	596.8	580.9	553.1	514.7	478.9	443.6	412.6	388.3	360.8	336.2	317.4
30°	586.0	576.7	549.7	511.2	472.1	434.1	400.1	372.4	345.0	320.2	300.9
32.5°	569.2	567.3	543.5	506.1	464.8	422.2	386.9	359.0	328.6	304.2	285.8
35°	536.4	545.3	530.3	494.9	451.2	405.0	366.9	335.0	303.5	280.2	263.0
37.5°	492.3	514.4	510.5	478.4	432.7	386.5	344.3	311.0	281.0	257.5	240.6
40°	461.9	490.1	494.2	465.8	419.7	372.1	327.4	294.3	265.1	243.5	226.5
42.5°	429.3	462.2	473.4	450.7	405.4	356.9	312.3	278.0	249.0	228.1	213.0
45°	374.7	418.2	438.4	425.4	381.7	332.1	286.2	251.4	225.0	205.4	193.7
47.5°	323.6	371.1	398.3	393.7	355.3	306.1	260.7	227.3	201.7	186.1	175.6
50°	287.5	336.3	369.1	370.6	336.3	287.6	242.1	210.6	187.0	172.4	163.9
52.5°	256.0	302.7	338.4	346.3	315.1	268.4	225.3	194.0	173.3	159.8	152.2
55°	215.0	254.5	294.1	308.6	283.6	239.1	199.3	171.7	152.2	143.0	136.3
57.5°	178.8	211.7	248.3	264.2	248.8	210.8	173.4	149.4	133.7	125.6	120.4
60°	159.6	185.6	218.2	237.3	223.9	190.0	157.4	134.6	121.6	114.5	109.7
62.5°	141.9	164.9	192.4	209.9	202.6	170.6	141.5	121.3	110.1	103.4	99.9
65°	117.1	135.2	156.5	172.6	167.8	143.6	119.6	102.4	93.5	88.1	85.4
67.5°	96.4	109.5	124.3	138.4	134.5	117.3	98.2	84.7	78.1	73.5	71.7
70°	83.3	93.4	106.5	117.8	114.6	100.6	85.4	73.9	68.2	64.2	62.6
72.5°	70.9	79.1	89.2	98.4	96.3	84.5	71.9	63.3	58.8	55.2	53.9
75°	53.6	59.8	66.0	72.1	71.5	62.5	55.0	48.3	44.8	42.1	41.5
77.5°	39.5	43.0	47.2	50.8	49.8	44.6	38.8	35.0	32.4	30.6	30.2
80°	30.2	32.2	35.2	37.7	36.5	34.2	29.6	26.8	25.0	23.2	22.4
82.5°	21.9	23.9	25.7	27.1	26.1	24.1	21.2	19.3	18.2	17.0	16.6
85°	11.5	12.6	13.4	13.7	13.4	12.1	10.8	10.0	9.0	8.5	8.3
87.5°	7.3	7.0	6.7	6.6	5.7	5.3	4.3	3.4	3.7	4.0	4.1
90°	14.3	12.7	11.2	9.4	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	18.6	17.8	17.0	16.7	17.0	17.1	17.3	17.5	17.3	17.1	17.0
95°	31.1	29.8	28.4	30.9	37.3	43.6	50.0	56.3	50.0	43.6	37.3
97.5°	39.0	35.9	32.8	40.2	58.0	76.0	93.9	111.8	93.9	76.0	58.0
100°	42.9	39.5	36.3	47.9	74.3	100.6	127.0	153.4	127.0	100.6	74.3
102.5°	105.6	133.0	160.4	176.8	182.4	188.0	193.6	199.2	193.6	188.0	182.4
105°	158.0	210.6	263.2	286.6	280.8	275.0	269.3	263.5	269.3	275.0	280.8
107.5°	200.2	263.2	326.3	355.5	350.7	346.1	341.4	336.8	341.4	346.1	350.7
110°	263.0	318.6	374.3	400.1	396.1	392.1	388.0	383.9	388.0	392.1	396.1



TEST NUMBER: P331276-930

CATALOG NUMBER: S122DIP-S290D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	410.1	423.8	437.6	442.6	439.0	435.5	431.9	428.4	431.9	435.5	439.0
115°	525.1	520.3	515.5	511.4	508.2	504.9	501.7	498.4	501.7	504.9	508.2
117.5°	585.7	582.4	579.0	575.6	571.9	568.3	564.6	560.9	564.6	568.3	571.9
120°	628.4	624.9	621.4	618.2	615.4	612.5	609.6	606.7	609.6	612.5	615.4
122.5°	668.6	664.9	661.1	657.7	654.7	651.6	648.6	645.6	648.6	651.6	654.7
125°	725.0	721.4	717.7	714.6	712.2	709.6	707.1	704.7	707.1	709.6	712.2
127.5°	777.5	774.8	772.0	769.3	766.5	763.8	761.0	758.2	761.0	763.8	766.5
130°	811.3	809.2	807.1	804.5	801.4	798.3	795.2	792.1	795.2	798.3	801.4
132.5°	843.9	841.8	839.7	837.3	834.7	832.1	829.5	826.8	829.5	832.1	834.7
135°	890.1	888.4	886.6	884.2	881.2	878.1	875.0	871.9	875.0	878.1	881.2
137.5°	932.1	930.2	928.1	926.1	924.0	921.8	919.7	917.5	919.7	921.8	924.0
140°	959.5	957.4	955.3	953.5	951.9	950.4	948.8	947.3	948.8	950.4	951.9
142.5°	984.6	982.1	979.7	977.8	976.4	975.0	973.6	972.2	973.6	975.0	976.4
145°	1018.7	1015.5	1012.2	1010.6	1010.9	1011.1	1011.2	1011.5	1011.2	1011.1	1010.9
147.5°	1050.4	1047.2	1043.9	1042.7	1043.4	1044.2	1044.9	1045.6	1044.9	1044.2	1043.4
150°	1069.4	1066.3	1063.2	1062.4	1063.7	1065.1	1066.4	1067.8	1066.4	1065.1	1063.7
152.5°	1087.0	1084.1	1081.2	1080.5	1082.0	1083.5	1085.0	1086.5	1085.0	1083.5	1082.0
155°	1111.7	1109.4	1107.1	1106.8	1108.5	1110.3	1112.0	1113.7	1112.0	1110.3	1108.5
157.5°	1132.5	1130.9	1129.3	1129.2	1130.7	1132.1	1133.6	1135.1	1133.6	1132.1	1130.7
160°	1145.2	1144.0	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5	1146.4	1145.2	1144.0
162.5°	1155.9	1154.9	1153.9	1154.0	1155.1	1156.3	1157.5	1158.6	1157.5	1156.3	1155.1
165°	1169.8	1169.1	1168.6	1168.9	1170.0	1171.2	1172.3	1173.5	1172.3	1171.2	1170.0
167.5°	1180.7	1180.2	1179.7	1180.0	1181.1	1182.3	1183.5	1184.6	1183.5	1182.3	1181.1
170°	1186.6	1186.3	1185.9	1186.3	1187.4	1188.5	1189.7	1190.8	1189.7	1188.5	1187.4
172.5°	1190.7	1190.4	1190.0	1190.4	1191.6	1192.7	1193.8	1195.0	1193.8	1192.7	1191.6
175°	1195.3	1194.9	1194.5	1195.0	1196.4	1197.7	1199.1	1200.4	1199.1	1197.7	1196.4
177.5°	1196.8	1196.6	1196.5	1196.9	1198.0	1199.1	1200.2	1201.3	1200.2	1199.1	1198.0
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331276-930

CATALOG NUMBER: S122DIP-S290D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	475.6	474.7	471.6	469.9	467.2	464.7	463.1	463.8	464.4	464.1	463.7
5°	461.9	458.4	453.0	448.4	445.1	439.0	436.3	435.0	433.9	432.7	431.4
7.5°	445.6	440.1	432.4	425.8	419.6	412.0	407.6	405.1	402.4	399.5	396.9
10°	434.1	426.3	418.2	409.0	401.5	394.7	388.6	384.5	380.7	377.2	374.7
12.5°	422.0	413.0	402.9	390.3	382.1	372.3	371.4	364.2	358.4	356.2	353.2
15°	402.7	390.0	377.2	362.2	355.8	346.9	341.4	335.7	330.8	327.3	326.4
17.5°	380.7	364.4	351.6	340.9	330.3	321.1	316.0	311.6	307.4	302.8	302.1
20°	363.9	349.8	336.0	326.5	315.6	306.3	300.0	295.6	292.0	289.3	286.9
22.5°	348.1	332.6	319.9	309.7	298.9	291.4	286.4	282.1	279.2	276.1	273.9
25°	322.6	310.6	296.7	285.0	276.1	271.3	267.3	263.6	261.7	259.7	257.1
27.5°	300.4	287.0	274.0	265.0	257.1	252.9	250.0	247.4	245.7	244.5	243.0
30°	284.7	271.2	261.0	252.1	245.6	241.3	239.5	238.0	235.9	235.2	234.5
32.5°	269.5	257.4	248.7	240.9	234.8	232.0	230.3	228.9	227.4	226.7	225.1
35°	248.2	238.0	229.5	225.2	220.2	217.8	216.5	214.7	213.2	212.5	212.2
37.5°	228.0	219.2	213.6	208.1	206.0	204.6	202.8	201.5	201.1	201.0	200.7
40°	215.0	207.8	202.8	198.4	197.5	195.2	193.7	192.7	192.7	192.8	192.7
42.5°	203.2	196.7	192.2	188.4	187.4	186.1	184.5	184.5	184.7	185.4	184.7
45°	185.2	180.6	177.4	175.6	173.6	172.3	172.0	172.6	172.8	173.0	173.6
47.5°	168.7	165.6	162.7	160.7	159.8	159.6	159.4	160.4	161.3	161.6	162.4
50°	158.9	155.4	153.0	151.6	150.9	150.6	150.9	152.1	152.8	153.7	154.3
52.5°	148.0	145.4	143.8	142.8	142.5	142.8	142.8	144.1	145.2	145.6	145.9
55°	132.8	130.9	130.6	128.9	129.6	129.5	130.4	131.1	132.2	133.4	133.5
57.5°	117.6	116.2	115.2	115.4	115.6	116.4	117.2	118.5	119.6	120.8	120.9
60°	107.6	106.9	106.3	106.3	106.6	107.8	108.7	110.0	110.7	111.5	112.0
62.5°	98.4	97.7	97.1	97.4	98.4	99.1	100.1	100.9	101.6	102.3	102.6
65°	83.9	83.6	84.1	84.5	84.6	85.5	86.8	87.4	88.1	88.5	89.8
67.5°	70.5	70.6	70.5	71.0	72.2	72.3	73.5	74.8	75.0	75.7	76.6
70°	61.5	61.9	62.2	62.6	63.5	63.9	64.8	65.4	66.1	66.7	67.3
72.5°	53.2	53.2	53.6	53.6	54.4	55.1	55.9	56.5	57.2	58.0	58.5
75°	40.9	40.9	41.3	41.5	42.4	43.4	43.1	43.5	44.3	45.0	45.4
77.5°	29.9	29.5	29.9	30.1	30.4	31.1	31.3	31.8	32.7	32.4	32.9
80°	22.7	22.3	22.7	23.0	23.0	23.9	23.9	24.3	24.8	24.3	24.8
82.5°	16.2	16.0	16.4	16.5	16.7	16.8	17.0	17.1	17.7	17.4	17.7
85°	8.2	8.0	8.2	8.0	8.2	8.3	8.3	8.2	8.2	8.5	8.0
87.5°	4.4	4.6	4.7	5.1	5.2	5.4	5.5	5.6	5.8	5.7	5.9
90°	9.4	11.2	12.7	14.3	15.8	17.4	18.3	19.2	20.2	21.2	21.9
92.5°	16.7	17.0	17.8	18.6	19.3	20.1	20.6	21.1	21.6	22.1	22.5
95°	30.9	28.4	29.8	31.1	32.4	33.8	34.7	35.7	36.7	37.7	38.1
97.5°	40.2	32.8	35.9	39.0	42.2	45.2	46.0	46.8	47.5	48.3	48.8
100°	47.9	36.3	39.5	42.9	46.1	49.4	51.0	52.5	54.1	55.6	56.5
102.5°	176.8	160.4	133.0	105.6	78.2	50.8	52.8	54.8	56.8	58.8	60.1
105°	286.6	263.2	210.6	158.0	105.4	52.8	55.0	57.1	59.2	61.3	62.8
107.5°	355.5	326.3	263.2	200.2	137.1	74.0	71.8	69.7	67.5	65.4	64.7
110°	400.1	374.3	318.6	263.0	207.3	151.6	132.4	113.2	93.9	74.6	65.4



TEST NUMBER: P331276-930

CATALOG NUMBER: S122DIP-S290D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	442.6	437.6	423.8	410.1	396.3	382.5	312.3	242.1	171.8	101.5	66.7
115°	511.4	515.5	520.3	525.1	529.9	534.8	445.6	356.4	267.3	178.1	126.5
117.5°	575.6	579.0	582.4	585.7	589.0	592.3	570.7	549.2	527.6	506.1	472.5
120°	618.2	621.4	624.9	628.4	631.9	635.3	637.6	639.9	642.2	644.6	632.7
122.5°	657.7	661.1	664.9	668.6	672.5	676.2	677.6	679.0	680.4	681.8	679.9
125°	714.6	717.7	721.4	725.0	728.7	732.4	733.7	735.1	736.4	737.8	738.7
127.5°	769.3	772.0	774.8	777.5	780.2	783.0	785.0	786.9	788.9	790.8	791.9
130°	804.5	807.1	809.2	811.3	813.4	815.5	817.7	819.8	821.9	824.0	825.0
132.5°	837.3	839.7	841.8	843.9	846.0	848.2	849.9	851.7	853.6	855.4	856.2
135°	884.2	886.6	888.4	890.1	891.9	893.6	895.5	897.4	899.4	901.2	902.0
137.5°	926.1	928.1	930.2	932.1	934.1	936.0	937.9	939.8	941.7	943.5	944.2
140°	953.5	955.3	957.4	959.5	961.6	963.8	965.5	967.3	969.0	970.7	971.1
142.5°	977.8	979.7	982.1	984.6	987.0	989.4	991.0	992.5	994.2	995.7	996.1
145°	1010.6	1012.2	1015.5	1018.7	1022.1	1025.3	1026.6	1028.0	1029.3	1030.7	1030.9
147.5°	1042.7	1043.9	1047.2	1050.4	1053.6	1056.9	1057.9	1058.8	1059.9	1060.9	1060.9
150°	1062.4	1063.2	1066.3	1069.4	1072.5	1075.5	1076.8	1077.9	1079.0	1080.2	1080.3
152.5°	1080.5	1081.2	1084.1	1087.0	1090.0	1092.9	1094.1	1095.2	1096.4	1097.6	1097.5
155°	1106.8	1107.1	1109.4	1111.7	1114.0	1116.3	1117.4	1118.6	1119.8	1121.0	1120.7
157.5°	1129.2	1129.3	1130.9	1132.5	1134.1	1135.7	1137.0	1138.3	1139.6	1140.9	1140.8
160°	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5	1148.7	1149.8	1151.0	1152.1	1152.0
162.5°	1154.0	1153.9	1154.9	1155.9	1156.9	1157.9	1159.2	1160.5	1161.8	1163.2	1162.9
165°	1168.9	1168.6	1169.1	1169.8	1170.4	1170.9	1172.2	1173.6	1174.9	1176.3	1176.3
167.5°	1180.0	1179.7	1180.2	1180.7	1181.3	1181.9	1183.2	1184.5	1185.9	1187.2	1187.0
170°	1186.3	1185.9	1186.3	1186.6	1187.0	1187.4	1188.7	1190.1	1191.4	1192.8	1192.5
172.5°	1190.4	1190.0	1190.4	1190.7	1191.2	1191.6	1192.9	1194.3	1195.6	1196.9	1196.8
175°	1195.0	1194.5	1194.9	1195.3	1195.6	1196.0	1197.4	1198.7	1200.1	1201.4	1201.2
177.5°	1196.9	1196.5	1196.6	1196.8	1196.9	1197.1	1198.2	1199.2	1200.3	1201.4	1201.3
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331276-930

CATALOG NUMBER: S122DIP-S290D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	462.2	461.9	461.9	460.6	461.9	461.9	462.2	463.7	464.1	464.4	463.8
5°	428.8	428.2	427.3	428.2	427.3	428.2	428.8	431.4	432.7	433.9	435.0
7.5°	395.7	393.5	393.1	390.9	393.1	393.5	395.7	396.9	399.5	402.4	405.1
10°	371.5	370.1	369.8	366.3	369.8	370.1	371.5	374.7	377.2	380.7	384.5
12.5°	353.2	349.6	350.3	348.3	350.3	349.6	353.2	353.2	356.2	358.4	364.2
15°	321.3	321.3	320.6	317.5	320.6	321.3	321.3	326.4	327.3	330.8	335.7
17.5°	298.5	298.1	296.4	297.3	296.4	298.1	298.5	302.1	302.8	307.4	311.6
20°	284.9	283.7	281.5	281.5	281.5	283.7	284.9	286.9	289.3	292.0	295.6
22.5°	272.0	271.9	269.5	270.3	269.5	271.9	272.0	273.9	276.1	279.2	282.1
25°	256.9	255.4	254.3	254.9	254.3	255.4	256.9	257.1	259.7	261.7	263.6
27.5°	242.6	241.7	241.7	240.2	241.7	241.7	242.6	243.0	244.5	245.7	247.4
30°	234.3	232.4	232.8	231.9	232.8	232.4	234.3	234.5	235.2	235.9	238.0
32.5°	224.8	224.1	223.8	223.0	223.8	224.1	224.8	225.1	226.7	227.4	228.9
35°	211.9	212.1	211.2	211.5	211.2	212.1	211.9	212.2	212.5	213.2	214.7
37.5°	200.6	201.1	200.7	200.8	200.7	201.1	200.6	200.7	201.0	201.1	201.5
40°	193.1	193.1	193.1	193.7	193.1	193.1	193.1	192.7	192.8	192.7	192.7
42.5°	186.1	185.7	185.5	185.4	185.5	185.7	186.1	184.7	185.4	184.7	184.5
45°	173.9	174.5	174.6	173.7	174.6	174.5	173.9	173.6	173.0	172.8	172.6
47.5°	162.9	163.0	162.9	163.7	162.9	163.0	162.9	162.4	161.6	161.3	160.4
50°	155.2	154.8	155.2	154.8	155.2	154.8	155.2	154.3	153.7	152.8	152.1
52.5°	147.1	147.2	146.9	146.8	146.9	147.2	147.1	145.9	145.6	145.2	144.1
55°	134.3	134.6	134.4	134.4	134.4	134.6	134.3	133.5	133.4	132.2	131.1
57.5°	121.1	121.4	121.6	120.8	121.6	121.4	121.1	120.9	120.8	119.6	118.5
60°	111.9	112.8	112.6	112.3	112.6	112.8	111.9	112.0	111.5	110.7	110.0
62.5°	103.4	103.8	103.7	103.6	103.7	103.8	103.4	102.6	102.3	101.6	100.9
65°	90.4	90.7	90.2	90.7	90.2	90.7	90.4	89.8	88.5	88.1	87.4
67.5°	76.3	76.5	76.9	77.1	76.9	76.5	76.3	76.6	75.7	75.0	74.8
70°	67.6	67.4	68.0	68.6	68.0	67.4	67.6	67.3	66.7	66.1	65.4
72.5°	58.4	58.8	58.6	59.0	58.6	58.8	58.4	58.5	58.0	57.2	56.5
75°	45.0	45.6	45.4	45.9	45.4	45.6	45.0	45.4	45.0	44.3	43.5
77.5°	32.5	32.6	32.5	32.9	32.5	32.6	32.5	32.9	32.4	32.7	31.8
80°	24.8	24.5	24.1	24.8	24.1	24.5	24.8	24.8	24.3	24.8	24.3
82.5°	17.3	17.4	17.1	17.1	17.1	17.4	17.3	17.7	17.4	17.7	17.1
85°	8.0	7.7	7.4	7.4	7.4	7.7	8.0	8.0	8.5	8.2	8.2
87.5°	6.0	5.9	6.0	5.9	6.0	5.9	6.0	5.9	5.7	5.8	5.6
90°	22.3	22.7	23.0	23.4	23.0	22.7	22.3	21.9	21.2	20.2	19.2
92.5°	22.7	22.9	23.2	23.4	23.2	22.9	22.7	22.5	22.1	21.6	21.1
95°	37.8	37.7	37.4	37.3	37.4	37.7	37.8	38.1	37.7	36.7	35.7
97.5°	49.1	49.3	49.5	49.7	49.5	49.3	49.1	48.8	48.3	47.5	46.8
100°	56.9	57.3	57.7	58.0	57.7	57.3	56.9	56.5	55.6	54.1	52.5
102.5°	60.6	61.1	61.7	62.2	61.7	61.1	60.6	60.1	58.8	56.8	54.8
105°	63.6	64.3	65.1	65.9	65.1	64.3	63.6	62.8	61.3	59.2	57.1
107.5°	65.5	66.2	67.0	67.8	67.0	66.2	65.5	64.7	65.4	67.5	69.7
110°	66.1	66.9	67.7	68.5	67.7	66.9	66.1	65.4	74.6	93.9	113.2



TEST NUMBER: P331276-930

CATALOG NUMBER: S122DIP-S290D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	67.3	67.9	68.6	69.1	68.6	67.9	67.3	66.7	101.5	171.8	242.1
115°	112.7	98.8	85.0	71.1	85.0	98.8	112.7	126.5	178.1	267.3	356.4
117.5°	426.9	381.3	335.7	290.2	335.7	381.3	426.9	472.5	506.1	527.6	549.2
120°	606.7	580.7	554.6	528.7	554.6	580.7	606.7	632.7	644.6	642.2	639.9
122.5°	674.9	669.8	664.8	659.7	664.8	669.8	674.9	679.9	681.8	680.4	679.0
125°	739.3	739.9	740.5	741.0	740.5	739.9	739.3	738.7	737.8	736.4	735.1
127.5°	792.0	792.1	792.2	792.3	792.2	792.1	792.0	791.9	790.8	788.9	786.9
130°	824.8	824.6	824.4	824.3	824.4	824.6	824.8	825.0	824.0	821.9	819.8
132.5°	856.0	855.8	855.7	855.4	855.7	855.8	856.0	856.2	855.4	853.6	851.7
135°	901.6	901.2	900.9	900.5	900.9	901.2	901.6	902.0	901.2	899.4	897.4
137.5°	943.5	942.9	942.2	941.6	942.2	942.9	943.5	944.2	943.5	941.7	939.8
140°	970.1	969.1	968.2	967.3	968.2	969.1	970.1	971.1	970.7	969.0	967.3
142.5°	995.1	994.1	993.2	992.2	993.2	994.1	995.1	996.1	995.7	994.2	992.5
145°	1030.0	1029.0	1028.0	1027.0	1028.0	1029.0	1030.0	1030.9	1030.7	1029.3	1028.0
147.5°	1060.1	1059.3	1058.5	1057.7	1058.5	1059.3	1060.1	1060.9	1060.9	1059.9	1058.8
150°	1079.3	1078.4	1077.4	1076.4	1077.4	1078.4	1079.3	1080.3	1080.2	1079.0	1077.9
152.5°	1096.2	1094.9	1093.6	1092.4	1093.6	1094.9	1096.2	1097.5	1097.6	1096.4	1095.2
155°	1119.2	1117.7	1116.1	1114.6	1116.1	1117.7	1119.2	1120.7	1121.0	1119.8	1118.6
157.5°	1139.4	1137.8	1136.4	1134.8	1136.4	1137.8	1139.4	1140.8	1140.9	1139.6	1138.3
160°	1150.7	1149.3	1148.0	1146.6	1148.0	1149.3	1150.7	1152.0	1152.1	1151.0	1149.8
162.5°	1161.3	1159.7	1158.0	1156.3	1158.0	1159.7	1161.3	1162.9	1163.2	1161.8	1160.5
165°	1174.9	1173.6	1172.2	1170.9	1172.2	1173.6	1174.9	1176.3	1176.3	1174.9	1173.6
167.5°	1185.3	1183.6	1181.9	1180.1	1181.9	1183.6	1185.3	1187.0	1187.2	1185.9	1184.5
170°	1190.8	1189.1	1187.4	1185.6	1187.4	1189.1	1190.8	1192.5	1192.8	1191.4	1190.1
172.5°	1195.0	1193.3	1191.6	1189.8	1191.6	1193.3	1195.0	1196.8	1196.9	1195.6	1194.3
175°	1199.2	1197.3	1195.4	1193.4	1195.4	1197.3	1199.2	1201.2	1201.4	1200.1	1198.7
177.5°	1199.9	1198.5	1197.1	1195.7	1197.1	1198.5	1199.9	1201.3	1201.4	1200.3	1199.2
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331276-930

CATALOG NUMBER: S122DIP-S290D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	463.1	464.7	467.2	469.9	471.6	474.7	475.6	477.0	478.3	481.4	484.7
5°	436.3	439.0	445.1	448.4	453.0	458.4	461.9	465.6	469.7	476.7	483.2
7.5°	407.6	412.0	419.6	425.8	432.4	440.1	445.6	453.0	459.1	469.0	478.5
10°	388.6	394.7	401.5	409.0	418.2	426.3	434.1	443.4	450.8	462.7	473.8
12.5°	371.4	372.3	382.1	390.3	402.9	413.0	422.0	433.9	441.2	455.3	466.9
15°	341.4	346.9	355.8	362.2	377.2	390.0	402.7	415.1	423.4	440.8	456.2
17.5°	316.0	321.1	330.3	340.9	351.6	364.4	380.7	393.8	405.1	425.0	443.2
20°	300.0	306.3	315.6	326.5	336.0	349.8	363.9	379.0	391.2	413.6	434.9
22.5°	286.4	291.4	298.9	309.7	319.9	332.6	348.1	364.4	377.2	401.5	423.0
25°	267.3	271.3	276.1	285.0	296.7	310.6	322.6	340.6	359.3	381.9	408.0
27.5°	250.0	252.9	257.1	265.0	274.0	287.0	300.4	317.4	336.2	360.8	388.3
30°	239.5	241.3	245.6	252.1	261.0	271.2	284.7	300.9	320.2	345.0	372.4
32.5°	230.3	232.0	234.8	240.9	248.7	257.4	269.5	285.8	304.2	328.6	359.0
35°	216.5	217.8	220.2	225.2	229.5	238.0	248.2	263.0	280.2	303.5	335.0
37.5°	202.8	204.6	206.0	208.1	213.6	219.2	228.0	240.6	257.5	281.0	311.0
40°	193.7	195.2	197.5	198.4	202.8	207.8	215.0	226.5	243.5	265.1	294.3
42.5°	184.5	186.1	187.4	188.4	192.2	196.7	203.2	213.0	228.1	249.0	278.0
45°	172.0	172.3	173.6	175.6	177.4	180.6	185.2	193.7	205.4	225.0	251.4
47.5°	159.4	159.6	159.8	160.7	162.7	165.6	168.7	175.6	186.1	201.7	227.3
50°	150.9	150.6	150.9	151.6	153.0	155.4	158.9	163.9	172.4	187.0	210.6
52.5°	142.8	142.8	142.5	142.8	143.8	145.4	148.0	152.2	159.8	173.3	194.0
55°	130.4	129.5	129.6	128.9	130.6	130.9	132.8	136.3	143.0	152.2	171.7
57.5°	117.2	116.4	115.6	115.4	115.2	116.2	117.6	120.4	125.6	133.7	149.4
60°	108.7	107.8	106.6	106.3	106.3	106.9	107.6	109.7	114.5	121.6	134.6
62.5°	100.1	99.1	98.4	97.4	97.1	97.7	98.4	99.9	103.4	110.1	121.3
65°	86.8	85.5	84.6	84.5	84.1	83.6	83.9	85.4	88.1	93.5	102.4
67.5°	73.5	72.3	72.2	71.0	70.5	70.6	70.5	71.7	73.5	78.1	84.7
70°	64.8	63.9	63.5	62.6	62.2	61.9	61.5	62.6	64.2	68.2	73.9
72.5°	55.9	55.1	54.4	53.6	53.6	53.2	53.2	53.9	55.2	58.8	63.3
75°	43.1	43.4	42.4	41.5	41.3	40.9	40.9	41.5	42.1	44.8	48.3
77.5°	31.3	31.1	30.4	30.1	29.9	29.5	29.9	30.2	30.6	32.4	35.0
80°	23.9	23.9	23.0	23.0	22.7	22.3	22.7	22.4	23.2	25.0	26.8
82.5°	17.0	16.8	16.7	16.5	16.4	16.0	16.2	16.6	17.0	18.2	19.3
85°	8.3	8.3	8.2	8.0	8.2	8.0	8.2	8.3	8.5	9.0	10.0
87.5°	5.5	5.4	5.2	5.1	4.7	4.6	4.4	4.1	4.0	3.7	3.4
90°	18.3	17.4	15.8	14.3	12.7	11.2	9.4	7.3	5.1	3.0	0.9
92.5°	20.6	20.1	19.3	18.6	17.8	17.0	16.7	17.0	17.1	17.3	17.5
95°	34.7	33.8	32.4	31.1	29.8	28.4	30.9	37.3	43.6	50.0	56.3
97.5°	46.0	45.2	42.2	39.0	35.9	32.8	40.2	58.0	76.0	93.9	111.8
100°	51.0	49.4	46.1	42.9	39.5	36.3	47.9	74.3	100.6	127.0	153.4
102.5°	52.8	50.8	78.2	105.6	133.0	160.4	176.8	182.4	188.0	193.6	199.2
105°	55.0	52.8	105.4	158.0	210.6	263.2	286.6	280.8	275.0	269.3	263.5
107.5°	71.8	74.0	137.1	200.2	263.2	326.3	355.5	350.7	346.1	341.4	336.8
110°	132.4	151.6	207.3	263.0	318.6	374.3	400.1	396.1	392.1	388.0	383.9



TEST NUMBER: P331276-930

CATALOG NUMBER: S122DIP-S290D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	312.3	382.5	396.3	410.1	423.8	437.6	442.6	439.0	435.5	431.9	428.4
115°	445.6	534.8	529.9	525.1	520.3	515.5	511.4	508.2	504.9	501.7	498.4
117.5°	570.7	592.3	589.0	585.7	582.4	579.0	575.6	571.9	568.3	564.6	560.9
120°	637.6	635.3	631.9	628.4	624.9	621.4	618.2	615.4	612.5	609.6	606.7
122.5°	677.6	676.2	672.5	668.6	664.9	661.1	657.7	654.7	651.6	648.6	645.6
125°	733.7	732.4	728.7	725.0	721.4	717.7	714.6	712.2	709.6	707.1	704.7
127.5°	785.0	783.0	780.2	777.5	774.8	772.0	769.3	766.5	763.8	761.0	758.2
130°	817.7	815.5	813.4	811.3	809.2	807.1	804.5	801.4	798.3	795.2	792.1
132.5°	849.9	848.2	846.0	843.9	841.8	839.7	837.3	834.7	832.1	829.5	826.8
135°	895.5	893.6	891.9	890.1	888.4	886.6	884.2	881.2	878.1	875.0	871.9
137.5°	937.9	936.0	934.1	932.1	930.2	928.1	926.1	924.0	921.8	919.7	917.5
140°	965.5	963.8	961.6	959.5	957.4	955.3	953.5	951.9	950.4	948.8	947.3
142.5°	991.0	989.4	987.0	984.6	982.1	979.7	977.8	976.4	975.0	973.6	972.2
145°	1026.6	1025.3	1022.1	1018.7	1015.5	1012.2	1010.6	1010.9	1011.1	1011.2	1011.5
147.5°	1057.9	1056.9	1053.6	1050.4	1047.2	1043.9	1042.7	1043.4	1044.2	1044.9	1045.6
150°	1076.8	1075.5	1072.5	1069.4	1066.3	1063.2	1062.4	1063.7	1065.1	1066.4	1067.8
152.5°	1094.1	1092.9	1090.0	1087.0	1084.1	1081.2	1080.5	1082.0	1083.5	1085.0	1086.5
155°	1117.4	1116.3	1114.0	1111.7	1109.4	1107.1	1106.8	1108.5	1110.3	1112.0	1113.7
157.5°	1137.0	1135.7	1134.1	1132.5	1130.9	1129.3	1129.2	1130.7	1132.1	1133.6	1135.1
160°	1148.7	1147.5	1146.4	1145.2	1144.0	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5
162.5°	1159.2	1157.9	1156.9	1155.9	1154.9	1153.9	1154.0	1155.1	1156.3	1157.5	1158.6
165°	1172.2	1170.9	1170.4	1169.8	1169.1	1168.6	1168.9	1170.0	1171.2	1172.3	1173.5
167.5°	1183.2	1181.9	1181.3	1180.7	1180.2	1179.7	1180.0	1181.1	1182.3	1183.5	1184.6
170°	1188.7	1187.4	1187.0	1186.6	1186.3	1185.9	1186.3	1187.4	1188.5	1189.7	1190.8
172.5°	1192.9	1191.6	1191.2	1190.7	1190.4	1190.0	1190.4	1191.6	1192.7	1193.8	1195.0
175°	1197.4	1196.0	1195.6	1195.3	1194.9	1194.5	1195.0	1196.4	1197.7	1199.1	1200.4
177.5°	1198.2	1197.1	1196.9	1196.8	1196.6	1196.5	1196.9	1198.0	1199.1	1200.2	1201.3
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331276-930

CATALOG NUMBER: S122DIP-S290D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	484.5	485.2	487.5	489.9	492.6	493.3	494.5	493.5	493.2	495.9	498.1
5°	485.8	489.1	495.6	501.6	506.5	510.1	513.8	515.3	518.0	521.9	526.8
7.5°	484.2	490.7	500.9	509.6	518.9	525.7	531.0	535.6	541.0	548.4	556.4
10°	482.5	491.1	503.6	514.1	525.6	534.3	541.5	548.6	556.8	567.0	577.5
12.5°	479.2	489.5	505.1	517.6	532.3	540.9	550.6	565.7	574.5	588.7	603.6
15°	472.6	484.1	505.8	521.1	537.9	554.2	572.1	586.5	601.0	609.4	630.2
17.5°	462.9	479.7	503.8	521.7	542.9	568.5	588.7	605.1	621.7	635.3	645.8
20°	455.0	473.4	500.8	522.3	547.5	575.0	598.2	614.9	629.3	640.7	647.1
22.5°	445.2	468.2	494.9	520.1	552.2	579.5	603.8	616.9	629.0	634.5	637.1
25°	429.5	457.3	487.5	518.2	554.5	583.4	605.6	613.6	617.1	611.7	602.8
27.5°	412.6	443.6	478.9	514.7	553.1	580.9	596.8	595.6	589.6	572.2	558.3
30°	400.1	434.1	472.1	511.2	549.7	576.7	586.0	576.7	563.2	543.8	523.9
32.5°	386.9	422.2	464.8	506.1	543.5	567.3	569.2	553.3	532.4	510.3	485.6
35°	366.9	405.0	451.2	494.9	530.3	545.3	536.4	508.2	483.4	453.2	419.5
37.5°	344.3	386.5	432.7	478.4	510.5	514.4	492.3	462.7	427.6	392.2	352.5
40°	327.4	372.1	419.7	465.8	494.2	490.1	461.9	429.3	387.7	344.3	307.4
42.5°	312.3	356.9	405.4	450.7	473.4	462.2	429.3	389.3	344.5	303.7	269.9
45°	286.2	332.1	381.7	425.4	438.4	418.2	374.7	330.2	286.2	252.1	225.4
47.5°	260.7	306.1	355.3	393.7	398.3	371.1	323.6	277.9	239.9	212.2	193.4
50°	242.1	287.6	336.3	370.6	369.1	336.3	287.5	243.9	212.2	189.8	177.2
52.5°	225.3	268.4	315.1	346.3	338.4	302.7	256.0	217.4	191.4	173.8	162.4
55°	199.3	239.1	283.6	308.6	294.1	254.5	215.0	183.9	164.6	151.5	142.6
57.5°	173.4	210.8	248.8	264.2	248.3	211.7	178.8	156.2	141.7	132.0	126.2
60°	157.4	190.0	223.9	237.3	218.2	185.6	159.6	139.5	127.8	119.8	114.6
62.5°	141.5	170.6	202.6	209.9	192.4	164.9	141.9	125.1	115.5	108.4	103.5
65°	119.6	143.6	167.8	172.6	156.5	135.2	117.1	106.2	97.6	92.5	88.5
67.5°	98.2	117.3	134.5	138.4	124.3	109.5	96.4	86.8	81.1	76.8	73.5
70°	85.4	100.6	114.6	117.8	106.5	93.4	83.3	75.7	70.5	66.9	63.7
72.5°	71.9	84.5	96.3	98.4	89.2	79.1	70.9	64.9	60.3	58.0	55.0
75°	55.0	62.5	71.5	72.1	66.0	59.8	53.6	49.7	47.2	44.3	42.8
77.5°	38.8	44.6	49.8	50.8	47.2	43.0	39.5	36.4	34.4	33.0	31.6
80°	29.6	34.2	36.5	37.7	35.2	32.2	30.2	28.1	26.8	25.9	25.0
82.5°	21.2	24.1	26.1	27.1	25.7	23.9	21.9	20.7	19.7	19.0	18.7
85°	10.8	12.1	13.4	13.7	13.4	12.6	11.5	11.5	10.9	10.8	10.8
87.5°	4.3	5.3	5.7	6.6	6.7	7.0	7.3	7.4	7.6	7.7	7.7
90°	3.0	5.1	7.3	9.4	11.2	12.7	14.3	15.8	17.4	18.3	19.2
92.5°	17.3	17.1	17.0	16.7	17.0	17.8	18.6	19.3	20.1	20.6	21.1
95°	50.0	43.6	37.3	30.9	28.4	29.8	31.1	32.4	33.8	34.7	35.7
97.5°	93.9	76.0	58.0	40.2	32.8	35.9	39.0	42.2	45.2	46.0	46.8
100°	127.0	100.6	74.3	47.9	36.3	39.5	42.9	46.1	49.4	51.0	52.5
102.5°	193.6	188.0	182.4	176.8	160.4	133.0	105.6	78.2	50.8	52.8	54.8
105°	269.3	275.0	280.8	286.6	263.2	210.6	158.0	105.4	52.8	55.0	57.1
107.5°	341.4	346.1	350.7	355.5	326.3	263.2	200.2	137.1	74.0	71.8	69.7
110°	388.0	392.1	396.1	400.1	374.3	318.6	263.0	207.3	151.6	132.4	113.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	431.9	435.5	439.0	442.6	437.6	423.8	410.1	396.3	382.5	312.3	242.1
115°	501.7	504.9	508.2	511.4	515.5	520.3	525.1	529.9	534.8	445.6	356.4
117.5°	564.6	568.3	571.9	575.6	579.0	582.4	585.7	589.0	592.3	570.7	549.2
120°	609.6	612.5	615.4	618.2	621.4	624.9	628.4	631.9	635.3	637.6	639.9
122.5°	648.6	651.6	654.7	657.7	661.1	664.9	668.6	672.5	676.2	677.6	679.0
125°	707.1	709.6	712.2	714.6	717.7	721.4	725.0	728.7	732.4	733.7	735.1
127.5°	761.0	763.8	766.5	769.3	772.0	774.8	777.5	780.2	783.0	785.0	786.9
130°	795.2	798.3	801.4	804.5	807.1	809.2	811.3	813.4	815.5	817.7	819.8
132.5°	829.5	832.1	834.7	837.3	839.7	841.8	843.9	846.0	848.2	849.9	851.7
135°	875.0	878.1	881.2	884.2	886.6	888.4	890.1	891.9	893.6	895.5	897.4
137.5°	919.7	921.8	924.0	926.1	928.1	930.2	932.1	934.1	936.0	937.9	939.8
140°	948.8	950.4	951.9	953.5	955.3	957.4	959.5	961.6	963.8	965.5	967.3
142.5°	973.6	975.0	976.4	977.8	979.7	982.1	984.6	987.0	989.4	991.0	992.5
145°	1011.2	1011.1	1010.9	1010.6	1012.2	1015.5	1018.7	1022.1	1025.3	1026.6	1028.0
147.5°	1044.9	1044.2	1043.4	1042.7	1043.9	1047.2	1050.4	1053.6	1056.9	1057.9	1058.8
150°	1066.4	1065.1	1063.7	1062.4	1063.2	1066.3	1069.4	1072.5	1075.5	1076.8	1077.9
152.5°	1085.0	1083.5	1082.0	1080.5	1081.2	1084.1	1087.0	1090.0	1092.9	1094.1	1095.2
155°	1112.0	1110.3	1108.5	1106.8	1107.1	1109.4	1111.7	1114.0	1116.3	1117.4	1118.6
157.5°	1133.6	1132.1	1130.7	1129.2	1129.3	1130.9	1132.5	1134.1	1135.7	1137.0	1138.3
160°	1146.4	1145.2	1144.0	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5	1148.7	1149.8
162.5°	1157.5	1156.3	1155.1	1154.0	1153.9	1154.9	1155.9	1156.9	1157.9	1159.2	1160.5
165°	1172.3	1171.2	1170.0	1168.9	1168.6	1169.1	1169.8	1170.4	1170.9	1172.2	1173.6
167.5°	1183.5	1182.3	1181.1	1180.0	1179.7	1180.2	1180.7	1181.3	1181.9	1183.2	1184.5
170°	1189.7	1188.5	1187.4	1186.3	1185.9	1186.3	1186.6	1187.0	1187.4	1188.7	1190.1
172.5°	1193.8	1192.7	1191.6	1190.4	1190.0	1190.4	1190.7	1191.2	1191.6	1192.9	1194.3
175°	1199.1	1197.7	1196.4	1195.0	1194.5	1194.9	1195.3	1195.6	1196.0	1197.4	1198.7
177.5°	1200.2	1199.1	1198.0	1196.9	1196.5	1196.6	1196.8	1196.9	1197.1	1198.2	1199.2
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	499.9	501.9	501.9	502.2	504.6	504.3	504.1
5°	531.9	535.1	535.4	538.7	541.0	540.2	538.2
7.5°	562.1	568.0	572.5	574.9	577.9	579.7	578.9
10°	586.2	594.7	599.9	603.4	607.6	610.8	609.7
12.5°	608.0	618.1	625.3	631.3	631.8	635.9	633.1
15°	642.0	652.6	653.8	658.2	661.8	661.4	661.5
17.5°	653.1	656.6	657.3	657.4	657.5	656.2	653.3
20°	649.1	647.8	644.7	642.3	638.1	637.5	633.8
22.5°	630.1	626.1	618.2	612.9	606.3	604.6	603.6
25°	592.9	583.8	571.2	559.1	555.8	549.3	551.1
27.5°	541.6	527.5	513.8	504.1	495.2	485.5	488.3
30°	505.6	489.7	470.4	455.6	446.1	436.9	435.2
32.5°	462.7	439.3	417.8	404.8	390.3	384.4	378.1
35°	388.6	365.7	344.5	326.1	315.6	307.4	300.0
37.5°	322.0	295.7	278.5	263.7	256.0	251.4	252.6
40°	280.6	257.6	245.0	233.7	226.7	223.4	224.1
42.5°	247.1	229.9	219.6	211.8	206.8	205.0	204.6
45°	209.1	199.5	190.9	186.5	184.1	182.1	180.8
47.5°	183.2	175.3	170.5	167.9	165.8	163.7	163.6
50°	167.6	162.4	159.1	156.3	154.7	153.2	154.5
52.5°	155.7	151.0	147.7	145.2	144.6	143.2	143.2
55°	138.2	134.4	132.1	129.8	128.7	128.0	127.0
57.5°	122.1	118.6	116.4	115.0	112.9	112.2	111.9
60°	110.7	107.9	105.7	103.9	103.0	101.5	101.5
62.5°	100.2	97.4	95.4	94.0	92.5	91.9	92.0
65°	85.0	82.8	80.7	79.2	78.9	77.8	78.2
67.5°	71.0	69.5	67.3	66.5	65.9	65.3	64.8
70°	61.6	60.2	59.1	58.0	57.4	57.4	57.4
72.5°	53.8	52.0	51.4	50.0	50.3	49.7	49.1
75°	41.7	40.5	40.0	39.5	38.6	38.6	38.6
77.5°	30.7	30.3	29.7	29.1	28.9	28.7	28.8
80°	23.7	23.5	23.2	23.2	22.7	22.6	22.3
82.5°	18.3	17.8	17.5	17.4	17.3	17.3	17.2
85°	10.4	10.0	10.0	10.2	9.8	9.8	10.0
87.5°	8.1	8.2	8.2	8.3	8.6	8.5	8.6
90°	20.2	21.2	21.9	22.3	22.7	23.0	23.4
92.5°	21.6	22.1	22.5	22.7	22.9	23.2	23.4
95°	36.7	37.7	38.1	37.8	37.7	37.4	37.3
97.5°	47.5	48.3	48.8	49.1	49.3	49.5	49.7
100°	54.1	55.6	56.5	56.9	57.3	57.7	58.0
102.5°	56.8	58.8	60.1	60.6	61.1	61.7	62.2
105°	59.2	61.3	62.8	63.6	64.3	65.1	65.9
107.5°	67.5	65.4	64.7	65.5	66.2	67.0	67.8
110°	93.9	74.6	65.4	66.1	66.9	67.7	68.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	171.8	101.5	66.7	67.3	67.9	68.6	69.1
115°	267.3	178.1	126.5	112.7	98.8	85.0	71.1
117.5°	527.6	506.1	472.5	426.9	381.3	335.7	290.2
120°	642.2	644.6	632.7	606.7	580.7	554.6	528.7
122.5°	680.4	681.8	679.9	674.9	669.8	664.8	659.7
125°	736.4	737.8	738.7	739.3	739.9	740.5	741.0
127.5°	788.9	790.8	791.9	792.0	792.1	792.2	792.3
130°	821.9	824.0	825.0	824.8	824.6	824.4	824.3
132.5°	853.6	855.4	856.2	856.0	855.8	855.7	855.4
135°	899.4	901.2	902.0	901.6	901.2	900.9	900.5
137.5°	941.7	943.5	944.2	943.5	942.9	942.2	941.6
140°	969.0	970.7	971.1	970.1	969.1	968.2	967.3
142.5°	994.2	995.7	996.1	995.1	994.1	993.2	992.2
145°	1029.3	1030.7	1030.9	1030.0	1029.0	1028.0	1027.0
147.5°	1059.9	1060.9	1060.9	1060.1	1059.3	1058.5	1057.7
150°	1079.0	1080.2	1080.3	1079.3	1078.4	1077.4	1076.4
152.5°	1096.4	1097.6	1097.5	1096.2	1094.9	1093.6	1092.4
155°	1119.8	1121.0	1120.7	1119.2	1117.7	1116.1	1114.6
157.5°	1139.6	1140.9	1140.8	1139.4	1137.8	1136.4	1134.8
160°	1151.0	1152.1	1152.0	1150.7	1149.3	1148.0	1146.6
162.5°	1161.8	1163.2	1162.9	1161.3	1159.7	1158.0	1156.3
165°	1174.9	1176.3	1176.3	1174.9	1173.6	1172.2	1170.9
167.5°	1185.9	1187.2	1187.0	1185.3	1183.6	1181.9	1180.1
170°	1191.4	1192.8	1192.5	1190.8	1189.1	1187.4	1185.6
172.5°	1195.6	1196.9	1196.8	1195.0	1193.3	1191.6	1189.8
175°	1200.1	1201.4	1201.2	1199.2	1197.3	1195.4	1193.4
177.5°	1200.3	1201.4	1201.3	1199.9	1198.5	1197.1	1195.7
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8

(END OF REPORT)