

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: P331773-830

Luminaire Tested: **S122RDIW-S290D970U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331773-830
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: S122RDIW-S290D970U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4715.5 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

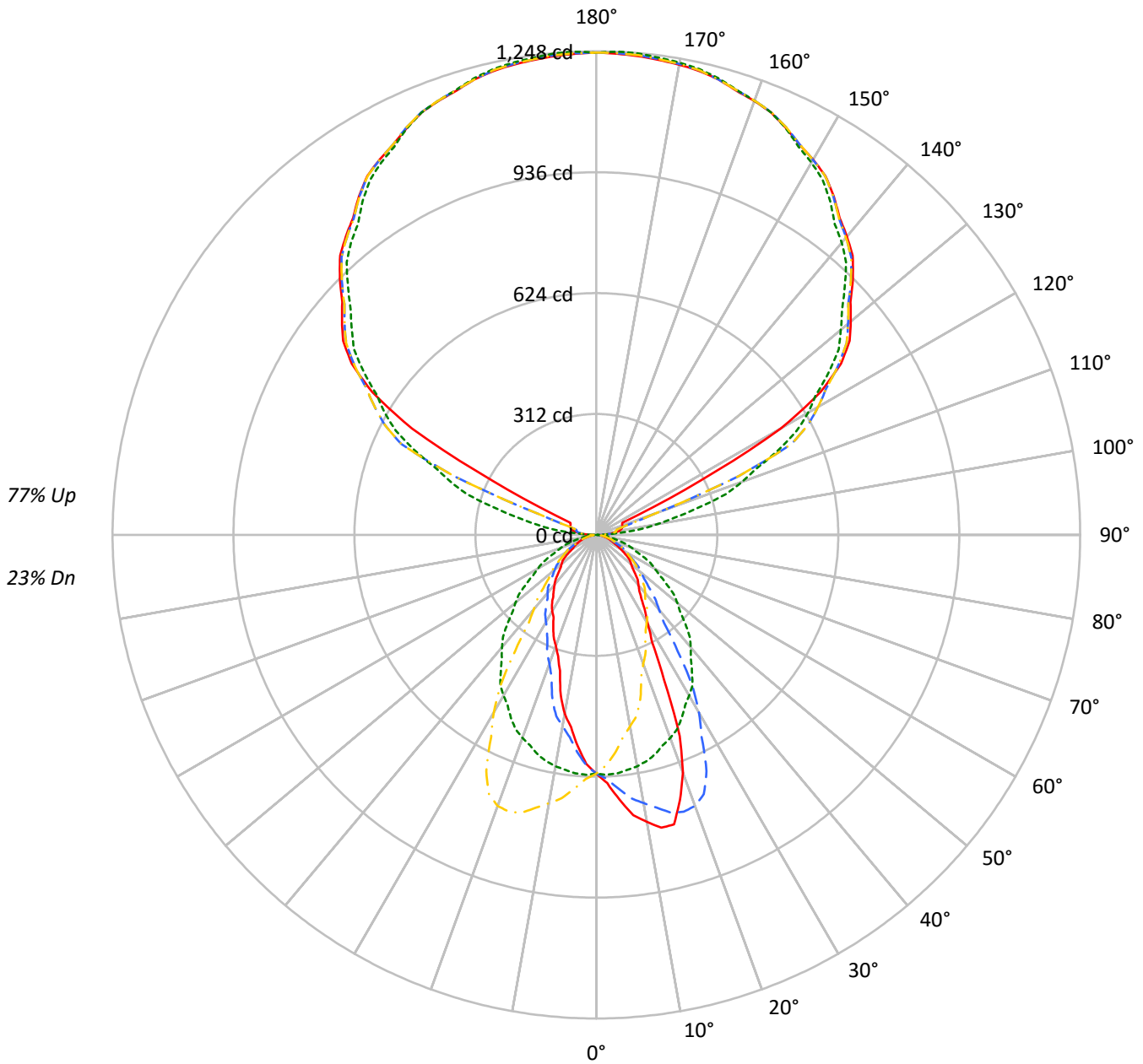
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	82	78	75	73	60	58	56	43	42	41	28	27	27	20
2	84	77	72	67	74	69	64	60	53	50	47	38	37	35	25	24	23	17
3	77	68	61	56	68	61	55	51	47	43	40	34	32	30	22	21	20	15
4	70	60	53	48	62	54	48	43	42	38	34	31	28	26	20	19	18	13
5	65	54	46	41	57	48	42	37	38	33	30	28	25	23	18	17	16	12
6	60	48	41	35	53	43	37	32	34	29	26	25	22	20	17	15	14	11
7	55	44	36	31	49	39	33	28	31	26	23	23	20	18	16	14	12	10
8	51	40	32	27	45	36	29	25	28	24	20	21	18	16	14	13	11	9
9	47	36	29	24	42	32	26	22	26	21	18	19	16	14	13	12	10	8
10	44	33	26	22	39	30	24	20	24	19	16	18	15	13	12	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9947	9947	9947	9947
5°	11110	10010	8877	10010
10°	12329	9940	7694	9940
15°	12933	9795	6063	9795
20°	11213	9579	5246	9579
25°	7352	9283	4684	9283
30°	4950	8925	4238	8925
35°	4009	8474	3824	8474
40°	3564	7982	3539	7982
45°	3226	7405	3158	7405
50°	2936	6835	2926	6835
55°	2759	6201	2725	6201
60°	2309	5622	2283	5622
65°	1948	5104	2208	5104
70°	1799	4556	2082	4556
75°	1684	3968	1921	3968
80°	1553	3273	1711	3273
85°	1426	2575	1501	2575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.2
10°-20°	162.8	3.5
20°-30°	209.7	4.4
30°-40°	199.3	4.2
40°-50°	170.7	3.6
50°-60°	130.0	2.8
60°-70°	82.2	1.7
70°-80°	41.0	0.9
80°-90°	13.7	0.3
90°-100°	41.5	0.9
100°-110°	152.3	3.2
110°-120°	407.0	8.6
120°-130°	671.8	14.2
130°-140°	714.5	15.2
140°-150°	664.1	14.1
150°-160°	533.9	11.3
160°-170°	344.1	7.3
170°-180°	118.4	2.5
0°-30°	430.9	9.1
0°-40°	630.2	13.4
0°-60°	931.0	19.7
0°-90°	1068.0	22.6
90°-120°	600.8	12.7
90°-150°	2651.1	56.2
90°-180°	3648.0	77.4
0°-180°	4715.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	616	616	616	616	616	
5°	686	618	548	618	686	68
15°	774	586	363	586	774	209
25°	413	521	263	521	413	196
35°	203	430	194	430	203	130
45°	141	324	138	324	141	109
55°	98	220	97	220	98	86
65°	51	134	58	134	51	52
75°	27	64	31	64	27	29
85°	8	14	8	14	8	9
90°	24	1	24	1	24	11
95°	39	58	39	58	39	36
105°	68	274	68	274	68	71
115°	74	518	74	518	74	185
125°	770	732	770	732	770	666
135°	936	906	936	906	936	721
145°	1067	1051	1067	1051	1067	667
155°	1158	1157	1158	1157	1158	534
165°	1217	1220	1217	1220	1217	344
175°	1240	1247	1240	1247	1240	118
180°	1245	1245	1245	1245	1245	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	641.2	641.7	642.2	641.0	641.0	640.0	637.7	636.0	631.2	630.6	630.6
5°	685.5	685.1	686.0	683.2	679.4	678.4	674.4	669.0	663.5	657.3	656.0
7.5°	729.6	729.0	727.3	726.8	723.9	717.4	710.9	703.9	694.7	685.6	681.1
10°	752.0	759.0	754.7	747.2	748.7	738.7	733.3	724.1	716.3	702.9	699.9
12.5°	773.8	776.7	775.2	771.0	769.1	762.1	754.9	746.9	732.6	720.6	710.0
15°	773.7	777.8	778.9	777.6	778.6	778.3	774.4	767.8	755.4	742.1	730.5
17.5°	716.6	719.4	726.5	731.2	737.3	749.9	756.2	758.6	756.8	749.1	741.0
20°	652.6	647.9	667.6	677.6	686.2	707.6	726.0	733.1	744.4	744.2	742.1
22.5°	561.8	562.9	581.5	593.5	618.5	640.0	660.9	687.5	709.5	724.0	732.4
25°	412.7	420.9	439.5	455.8	483.6	523.5	559.7	601.6	641.2	672.5	702.3
27.5°	310.0	310.7	325.4	340.4	356.9	389.6	435.2	485.2	541.7	588.3	641.9
30°	265.5	264.2	270.4	279.7	293.8	319.1	353.3	402.5	458.8	529.0	591.5
32.5°	233.9	234.0	238.7	245.5	257.2	274.3	297.7	337.8	391.0	460.1	533.3
35°	203.4	203.2	206.6	211.5	216.4	227.3	243.5	264.4	301.0	365.4	440.4
37.5°	181.4	182.4	184.1	187.2	192.6	198.7	208.3	222.4	248.5	286.6	349.6
40°	169.1	169.6	171.9	174.5	177.7	182.4	190.3	201.7	220.7	251.1	297.2
42.5°	157.9	158.3	159.9	162.3	164.9	169.6	176.2	186.0	201.4	225.1	263.1
45°	141.3	141.3	142.8	143.8	146.7	150.9	156.3	164.5	175.1	192.7	217.9
47.5°	125.8	125.8	126.9	128.7	130.4	133.7	139.0	145.7	153.4	167.0	188.6
50°	116.9	117.2	117.7	119.2	120.4	123.3	127.4	133.2	141.3	151.8	169.8
52.5°	109.7	109.6	110.4	111.0	111.8	113.9	117.0	122.1	129.3	138.5	153.4
55°	98.0	97.2	98.5	99.5	100.2	101.0	102.7	105.9	112.2	119.9	131.0
57.5°	83.5	83.1	84.1	85.0	87.1	89.4	90.9	92.8	96.0	101.6	112.6
60°	71.5	71.5	73.4	74.1	76.4	79.5	82.5	84.2	87.4	91.0	99.2
62.5°	60.9	61.1	61.9	62.6	63.9	67.6	71.8	75.6	78.6	82.1	87.5
65°	51.0	51.4	51.4	51.8	52.7	53.5	55.2	58.2	63.6	68.5	72.6
67.5°	43.3	43.4	43.5	43.9	44.1	45.1	45.8	47.1	48.4	53.0	58.1
70°	38.1	38.7	38.5	38.9	39.2	39.6	40.4	41.1	43.1	44.1	47.1
72.5°	33.3	33.7	33.7	34.0	34.6	34.7	35.3	36.0	37.2	38.1	39.8
75°	27.0	26.8	27.0	27.4	27.6	27.8	27.8	28.7	29.3	30.2	31.3
77.5°	20.8	21.0	21.0	21.0	21.1	21.5	21.4	21.8	22.4	22.9	23.4
80°	16.7	16.9	16.7	16.9	17.2	17.3	17.2	17.3	18.0	18.4	18.4
82.5°	12.9	13.0	13.1	13.1	13.2	13.2	13.6	13.6	14.0	13.9	14.1
85°	7.7	7.5	7.5	7.5	7.7	7.9	7.7	7.7	7.9	7.9	7.9
87.5°	7.6	7.7	7.6	7.5	7.4	7.4	7.1	7.1	6.7	6.7	6.2
90°	24.3	23.9	23.5	23.1	22.7	22.1	21.0	20.0	19.0	18.0	16.4
92.5°	24.3	24.0	23.8	23.6	23.4	23.0	22.4	22.0	21.4	20.9	20.1
95°	38.7	38.9	39.1	39.3	39.5	39.1	38.2	37.1	36.1	35.2	33.7
97.5°	51.7	51.5	51.2	51.0	50.7	50.2	49.4	48.6	47.8	47.0	43.7
100°	60.3	59.9	59.6	59.1	58.7	57.8	56.2	54.6	53.0	51.4	48.0
102.5°	64.7	64.1	63.5	63.0	62.4	61.1	59.0	56.9	54.9	52.8	81.2
105°	68.4	67.7	66.8	66.1	65.2	63.7	61.5	59.4	57.1	55.0	109.6
107.5°	70.4	69.7	68.8	68.1	67.2	68.0	70.2	72.4	74.6	76.9	142.4
110°	71.2	70.3	69.6	68.7	68.0	77.6	97.6	117.5	137.6	157.6	215.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	71.9	71.3	70.6	69.9	69.3	105.5	178.5	251.5	324.5	397.6	411.8
115°	73.9	88.2	102.6	117.1	131.5	185.0	277.7	370.3	463.0	555.7	550.7
117.5°	301.5	348.9	396.2	443.6	491.0	525.8	548.3	570.6	593.0	615.5	612.1
120°	549.4	576.4	603.4	630.5	657.4	669.8	667.3	665.0	662.6	660.2	656.6
122.5°	685.6	690.8	696.1	701.3	706.5	708.4	707.0	705.6	704.1	702.7	698.7
125°	770.1	769.4	768.8	768.3	767.6	766.7	765.3	763.8	762.4	761.0	757.2
127.5°	823.3	823.2	823.1	823.0	822.8	821.8	819.7	817.7	815.7	813.6	810.8
130°	856.5	856.7	856.9	857.1	857.3	856.3	854.1	851.9	849.7	847.5	845.3
132.5°	888.9	889.1	889.3	889.5	889.8	888.9	887.0	885.1	883.3	881.4	879.1
135°	935.8	936.1	936.5	937.0	937.4	936.5	934.5	932.6	930.6	928.6	926.7
137.5°	978.5	979.1	979.8	980.5	981.2	980.5	978.5	976.6	974.7	972.7	970.6
140°	1005.1	1006.1	1007.1	1008.1	1009.1	1008.7	1006.9	1005.1	1003.3	1001.5	999.3
142.5°	1031.0	1032.1	1033.0	1034.1	1035.0	1034.7	1033.1	1031.4	1029.8	1028.1	1025.7
145°	1067.2	1068.3	1069.2	1070.3	1071.3	1071.0	1069.7	1068.3	1066.9	1065.5	1062.1
147.5°	1099.1	1099.9	1100.8	1101.6	1102.5	1102.4	1101.4	1100.3	1099.3	1098.3	1094.9
150°	1118.6	1119.6	1120.6	1121.6	1122.6	1122.5	1121.2	1120.1	1118.9	1117.7	1114.5
152.5°	1135.2	1136.5	1137.8	1139.2	1140.5	1140.5	1139.3	1138.1	1136.9	1135.7	1132.7
155°	1158.2	1159.8	1161.4	1163.0	1164.6	1164.8	1163.6	1162.4	1161.2	1160.0	1157.6
157.5°	1179.3	1180.8	1182.4	1183.9	1185.5	1185.6	1184.3	1182.9	1181.6	1180.2	1178.5
160°	1191.6	1193.0	1194.3	1195.7	1197.1	1197.2	1196.0	1194.9	1193.6	1192.4	1191.3
162.5°	1201.6	1203.3	1205.0	1206.7	1208.5	1208.7	1207.3	1206.0	1204.6	1203.2	1202.2
165°	1216.7	1218.1	1219.6	1221.0	1222.4	1222.4	1221.0	1219.6	1218.1	1216.7	1216.2
167.5°	1226.3	1228.1	1229.9	1231.7	1233.5	1233.7	1232.3	1230.9	1229.5	1228.1	1227.6
170°	1232.1	1233.9	1235.7	1237.5	1239.3	1239.4	1238.0	1236.7	1235.3	1233.9	1233.5
172.5°	1236.4	1238.2	1240.0	1241.8	1243.6	1243.8	1242.4	1241.0	1239.6	1238.2	1237.7
175°	1240.2	1242.2	1244.2	1246.1	1248.2	1248.5	1247.1	1245.7	1244.3	1242.8	1242.5
177.5°	1242.6	1244.0	1245.4	1246.8	1248.3	1248.4	1247.3	1246.2	1245.1	1244.0	1243.8
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	630.9	629.5	628.3	625.3	623.7	620.3	619.8	619.6	615.2	610.9	609.6
5°	652.6	649.1	644.0	638.0	631.8	625.4	621.1	617.6	609.1	601.0	596.3
7.5°	674.4	667.0	658.2	646.9	637.3	626.8	618.9	611.8	599.6	588.0	580.1
10°	690.7	678.7	666.9	651.3	639.0	627.1	616.0	606.3	592.7	577.2	566.3
12.5°	700.8	687.6	671.4	656.1	640.3	625.0	610.1	597.8	581.6	565.7	552.8
15°	714.4	700.3	680.6	658.7	638.5	618.5	601.4	586.0	565.1	545.9	530.1
17.5°	725.7	706.2	685.0	659.8	636.2	611.0	588.9	569.2	545.8	522.8	504.2
20°	729.2	709.9	685.5	660.3	632.4	602.7	578.9	557.5	532.4	507.4	486.0
22.5°	727.0	712.0	684.9	654.6	626.1	595.0	568.2	543.3	515.5	489.9	465.1
25°	711.9	706.7	681.1	648.1	615.6	579.4	548.3	521.1	489.5	462.0	435.1
27.5°	676.7	687.8	671.8	636.7	600.5	561.8	526.8	495.9	463.0	432.2	405.3
30°	642.7	668.2	661.4	628.8	588.3	550.3	511.0	478.7	443.7	411.9	385.4
32.5°	596.3	638.4	645.1	617.8	576.0	534.1	493.0	460.9	424.2	390.9	365.0
35°	522.4	585.3	614.3	596.9	555.0	509.7	467.4	429.9	393.0	360.1	334.4
37.5°	434.2	520.0	568.2	569.4	530.8	483.9	437.7	400.5	362.8	330.5	302.7
40°	377.0	470.0	532.7	546.6	514.1	463.4	416.6	378.7	342.0	310.2	278.3
42.5°	325.6	418.2	495.3	519.5	493.7	443.3	396.4	356.8	321.0	291.1	258.4
45°	263.3	344.3	429.2	472.5	458.2	411.5	362.0	324.3	290.8	264.9	233.6
47.5°	222.2	279.2	361.5	419.9	419.7	377.1	328.4	292.4	261.2	236.9	211.6
50°	198.7	248.4	317.9	384.3	389.8	354.1	307.8	272.1	243.0	217.5	197.2
52.5°	177.6	218.6	281.1	344.8	360.6	329.6	284.7	251.8	223.5	200.0	182.7
55°	150.1	181.8	229.3	288.8	312.8	291.0	251.1	220.3	197.4	177.7	162.7
57.5°	127.0	150.7	188.9	236.8	264.7	251.0	218.1	193.0	173.4	155.6	143.8
60°	112.4	131.9	164.2	204.2	235.1	225.5	197.4	174.1	157.4	141.9	130.8
62.5°	98.7	115.5	143.2	175.7	203.9	199.9	177.0	157.4	142.8	128.8	119.3
65°	79.5	91.6	113.3	138.7	161.5	163.3	146.8	133.6	120.6	109.4	101.0
67.5°	63.2	71.3	86.4	107.9	124.9	131.0	120.9	110.7	100.4	91.8	84.5
70°	53.3	59.8	70.9	88.2	103.9	110.3	104.4	96.5	87.6	80.5	74.3
72.5°	43.2	49.5	57.7	70.4	83.8	90.8	88.7	83.0	75.8	69.8	64.0
75°	32.5	34.5	40.1	48.6	59.1	65.1	66.5	63.6	57.8	53.3	49.9
77.5°	24.0	25.3	27.9	32.3	39.2	44.6	46.8	46.4	42.4	39.9	36.6
80°	19.2	19.9	21.2	23.1	28.3	33.6	35.2	35.2	32.3	31.3	28.1
82.5°	14.6	15.1	15.9	17.0	19.3	24.0	25.7	26.0	24.3	22.9	20.4
85°	8.4	8.1	8.6	9.2	9.6	10.9	13.5	13.9	13.5	11.8	11.1
87.5°	5.8	5.7	5.4	4.8	4.6	4.3	4.7	5.2	4.9	4.8	4.9
90°	14.8	13.2	11.6	9.7	7.5	5.3	3.1	0.9	3.1	5.3	7.5
92.5°	19.3	18.5	17.7	17.4	17.6	17.8	18.0	18.2	18.0	17.8	17.6
95°	32.3	30.9	29.5	32.1	38.7	45.3	51.9	58.5	51.9	45.3	38.7
97.5°	40.5	37.3	34.0	41.8	60.3	79.0	97.6	116.2	97.6	79.0	60.3
100°	44.5	41.1	37.7	49.8	77.2	104.5	132.0	159.4	132.0	104.5	77.2
102.5°	109.7	138.2	166.6	183.7	189.5	195.4	201.1	207.0	201.1	195.4	189.5
105°	164.2	218.9	273.5	297.8	291.8	285.8	279.8	273.8	279.8	285.8	291.8
107.5°	207.9	273.5	339.0	369.4	364.5	359.7	354.9	350.0	354.9	359.7	364.5
110°	273.3	331.1	389.0	415.8	411.6	407.4	403.2	399.0	403.2	407.4	411.6



TEST NUMBER: P331773-830

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	426.1	440.5	454.7	460.0	456.3	452.5	448.8	445.1	448.8	452.5	456.3
115°	545.6	540.6	535.6	531.5	528.1	524.7	521.2	517.8	521.2	524.7	528.1
117.5°	608.6	605.2	601.7	598.1	594.3	590.5	586.7	582.9	586.7	590.5	594.3
120°	653.0	649.3	645.7	642.4	639.4	636.4	633.5	630.5	633.5	636.4	639.4
122.5°	694.8	690.9	687.0	683.4	680.2	677.1	673.9	670.8	673.9	677.1	680.2
125°	753.5	749.6	745.8	742.6	740.0	737.4	734.8	732.2	734.8	737.4	740.0
127.5°	807.9	805.1	802.3	799.4	796.5	793.6	790.8	787.9	790.8	793.6	796.5
130°	843.1	840.8	838.7	835.9	832.7	829.6	826.4	823.2	826.4	829.6	832.7
132.5°	876.9	874.8	872.5	870.1	867.3	864.7	862.0	859.2	862.0	864.7	867.3
135°	924.9	923.1	921.3	918.9	915.7	912.5	909.3	906.1	909.3	912.5	915.7
137.5°	968.6	966.6	964.5	962.3	960.2	957.9	955.6	953.4	955.6	957.9	960.2
140°	997.1	994.9	992.7	990.8	989.2	987.6	986.0	984.4	986.0	987.6	989.2
142.5°	1023.1	1020.6	1018.0	1016.1	1014.6	1013.2	1011.7	1010.3	1011.7	1013.2	1014.6
145°	1058.7	1055.3	1051.9	1050.3	1050.5	1050.7	1050.8	1051.0	1050.8	1050.7	1050.5
147.5°	1091.5	1088.2	1084.8	1083.5	1084.2	1085.0	1085.7	1086.6	1085.7	1085.0	1084.2
150°	1111.3	1108.1	1104.8	1104.0	1105.4	1106.7	1108.1	1109.6	1108.1	1106.7	1105.4
152.5°	1129.6	1126.5	1123.5	1122.8	1124.4	1125.9	1127.5	1129.1	1127.5	1125.9	1124.4
155°	1155.2	1152.8	1150.4	1150.1	1151.9	1153.7	1155.5	1157.3	1155.5	1153.7	1151.9
157.5°	1176.9	1175.2	1173.5	1173.4	1174.9	1176.4	1178.0	1179.5	1178.0	1176.4	1174.9
160°	1190.1	1188.8	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4	1191.3	1190.1	1188.8
162.5°	1201.2	1200.1	1199.1	1199.2	1200.3	1201.6	1202.8	1204.0	1202.8	1201.6	1200.3
165°	1215.5	1214.9	1214.4	1214.7	1215.9	1217.0	1218.2	1219.5	1218.2	1217.0	1215.9
167.5°	1227.0	1226.4	1225.9	1226.2	1227.4	1228.6	1229.7	1231.0	1229.7	1228.6	1227.4
170°	1233.0	1232.7	1232.3	1232.7	1233.9	1235.1	1236.2	1237.5	1236.2	1235.1	1233.9
172.5°	1237.4	1237.0	1236.6	1237.0	1238.2	1239.3	1240.6	1241.8	1240.6	1239.3	1238.2
175°	1242.1	1241.7	1241.2	1241.8	1243.2	1244.5	1245.9	1247.4	1245.9	1244.5	1243.2
177.5°	1243.6	1243.5	1243.3	1243.8	1244.9	1246.0	1247.2	1248.3	1247.2	1246.0	1244.9
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



TEST NUMBER: P331773-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	607.5	606.2	604.0	600.6	598.5	594.9	592.6	593.9	594.3	593.9	593.6
5°	591.2	586.6	580.4	574.4	568.8	562.9	559.4	558.0	555.0	553.3	552.3
7.5°	571.4	563.6	554.9	544.4	535.6	526.2	521.5	519.2	513.0	509.7	506.8
10°	556.7	544.4	535.6	522.0	513.6	501.4	493.0	493.3	484.9	480.2	476.8
12.5°	540.4	527.0	512.4	500.0	488.4	478.6	468.5	464.5	455.6	451.1	441.9
15°	513.4	497.8	482.4	465.7	453.9	438.7	424.1	406.3	392.0	379.6	376.2
17.5°	484.0	464.6	449.1	429.5	409.3	383.8	366.9	356.6	348.0	341.4	336.5
20°	463.7	444.0	427.5	398.0	370.8	353.5	341.1	333.1	324.1	317.1	313.2
22.5°	442.5	422.0	399.4	366.5	345.3	331.4	320.4	311.2	305.1	299.6	296.1
25°	412.4	389.8	352.8	330.2	313.0	298.4	290.8	285.2	278.8	271.3	267.9
27.5°	380.5	344.8	318.1	301.2	284.9	275.5	268.5	260.2	254.5	251.1	247.5
30°	356.7	320.9	300.2	281.7	270.2	259.7	251.6	246.9	241.3	235.5	233.2
32.5°	330.2	301.6	281.6	266.4	254.6	245.6	239.2	231.6	227.6	224.0	219.1
35°	297.2	275.5	257.3	245.0	233.8	226.5	219.0	214.5	207.3	204.2	202.4
37.5°	269.3	250.5	237.0	223.9	215.0	207.0	202.4	195.2	192.1	187.8	183.8
40°	253.4	235.1	222.1	211.3	201.4	195.5	189.7	183.9	179.2	177.3	172.4
42.5°	237.4	222.4	209.3	197.7	191.1	184.6	177.4	173.1	168.2	165.1	162.1
45°	215.2	201.9	190.8	181.2	173.8	167.2	162.5	155.4	152.7	146.5	143.8
47.5°	195.7	183.3	172.7	163.5	156.5	152.1	145.2	139.7	135.3	131.4	128.1
50°	181.8	171.4	161.2	153.1	146.7	140.4	133.4	130.6	123.8	121.8	119.9
52.5°	169.1	159.3	150.0	141.9	135.5	129.5	123.3	119.6	115.0	113.1	111.7
55°	151.4	141.9	133.0	125.9	119.5	113.3	109.4	104.9	102.7	101.2	99.5
57.5°	133.6	125.1	118.2	111.0	104.5	99.6	95.2	92.5	90.3	88.3	86.2
60°	122.2	114.1	107.9	101.2	94.6	90.6	87.2	83.9	81.3	78.3	77.5
62.5°	110.3	103.1	97.5	91.0	85.2	81.5	78.2	75.2	72.1	67.8	66.5
65°	93.8	88.2	82.2	76.8	71.7	68.1	63.3	59.9	58.6	58.2	58.1
67.5°	78.9	73.6	68.4	63.0	58.3	55.0	52.5	52.0	51.1	50.9	50.2
70°	68.9	64.0	58.9	53.7	49.2	48.6	47.8	46.8	45.8	45.4	45.0
72.5°	60.0	55.0	49.8	45.7	43.7	43.0	42.1	41.2	40.5	40.1	39.9
75°	46.0	41.3	37.9	36.4	35.3	34.7	33.4	32.8	32.3	31.7	31.5
77.5°	33.2	30.4	28.9	28.0	26.9	26.2	25.4	24.8	24.3	24.2	23.8
80°	25.3	23.9	22.9	21.6	21.2	20.4	20.2	19.5	19.7	19.0	19.0
82.5°	19.6	18.0	17.1	16.5	16.0	15.4	15.2	14.9	14.9	14.4	14.4
85°	10.1	9.6	9.2	8.8	8.8	8.1	8.4	8.1	8.1	7.7	7.5
87.5°	5.2	5.4	5.4	5.7	6.0	6.1	6.4	6.4	6.6	6.8	6.8
90°	9.7	11.6	13.2	14.8	16.4	18.0	19.0	20.0	21.0	22.1	22.7
92.5°	17.4	17.7	18.5	19.3	20.1	20.9	21.4	22.0	22.4	23.0	23.4
95°	32.1	29.5	30.9	32.3	33.7	35.2	36.1	37.1	38.2	39.1	39.5
97.5°	41.8	34.0	37.3	40.5	43.7	47.0	47.8	48.6	49.4	50.2	50.7
100°	49.8	37.7	41.1	44.5	48.0	51.4	53.0	54.6	56.2	57.8	58.7
102.5°	183.7	166.6	138.2	109.7	81.2	52.8	54.9	56.9	59.0	61.1	62.4
105°	297.8	273.5	218.9	164.2	109.6	55.0	57.1	59.4	61.5	63.7	65.2
107.5°	369.4	339.0	273.5	207.9	142.4	76.9	74.6	72.4	70.2	68.0	67.2
110°	415.8	389.0	331.1	273.3	215.5	157.6	137.6	117.5	97.6	77.6	68.0



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CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	460.0	454.7	440.5	426.1	411.8	397.6	324.5	251.5	178.5	105.5	69.3
115°	531.5	535.6	540.6	545.6	550.7	555.7	463.0	370.3	277.7	185.0	131.5
117.5°	598.1	601.7	605.2	608.6	612.1	615.5	593.0	570.6	548.3	525.8	491.0
120°	642.4	645.7	649.3	653.0	656.6	660.2	662.6	665.0	667.3	669.8	657.4
122.5°	683.4	687.0	690.9	694.8	698.7	702.7	704.1	705.6	707.0	708.4	706.5
125°	742.6	745.8	749.6	753.5	757.2	761.0	762.4	763.8	765.3	766.7	767.6
127.5°	799.4	802.3	805.1	807.9	810.8	813.6	815.7	817.7	819.7	821.8	822.8
130°	835.9	838.7	840.8	843.1	845.3	847.5	849.7	851.9	854.1	856.3	857.3
132.5°	870.1	872.5	874.8	876.9	879.1	881.4	883.3	885.1	887.0	888.9	889.8
135°	918.9	921.3	923.1	924.9	926.7	928.6	930.6	932.6	934.5	936.5	937.4
137.5°	962.3	964.5	966.6	968.6	970.6	972.7	974.7	976.6	978.5	980.5	981.2
140°	990.8	992.7	994.9	997.1	999.3	1001.5	1003.3	1005.1	1006.9	1008.7	1009.1
142.5°	1016.1	1018.0	1020.6	1023.1	1025.7	1028.1	1029.8	1031.4	1033.1	1034.7	1035.0
145°	1050.3	1051.9	1055.3	1058.7	1062.1	1065.5	1066.9	1068.3	1069.7	1071.0	1071.3
147.5°	1083.5	1084.8	1088.2	1091.5	1094.9	1098.3	1099.3	1100.3	1101.4	1102.4	1102.5
150°	1104.0	1104.8	1108.1	1111.3	1114.5	1117.7	1118.9	1120.1	1121.2	1122.5	1122.6
152.5°	1122.8	1123.5	1126.5	1129.6	1132.7	1135.7	1136.9	1138.1	1139.3	1140.5	1140.5
155°	1150.1	1150.4	1152.8	1155.2	1157.6	1160.0	1161.2	1162.4	1163.6	1164.8	1164.6
157.5°	1173.4	1173.5	1175.2	1176.9	1178.5	1180.2	1181.6	1182.9	1184.3	1185.6	1185.5
160°	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4	1193.6	1194.9	1196.0	1197.2	1197.1
162.5°	1199.2	1199.1	1200.1	1201.2	1202.2	1203.2	1204.6	1206.0	1207.3	1208.7	1208.5
165°	1214.7	1214.4	1214.9	1215.5	1216.2	1216.7	1218.1	1219.6	1221.0	1222.4	1222.4
167.5°	1226.2	1225.9	1226.4	1227.0	1227.6	1228.1	1229.5	1230.9	1232.3	1233.7	1233.5
170°	1232.7	1232.3	1232.7	1233.0	1233.5	1233.9	1235.3	1236.7	1238.0	1239.4	1239.3
172.5°	1237.0	1236.6	1237.0	1237.4	1237.7	1238.2	1239.6	1241.0	1242.4	1243.8	1243.6
175°	1241.8	1241.2	1241.7	1242.1	1242.5	1242.8	1244.3	1245.7	1247.1	1248.5	1248.2
177.5°	1243.8	1243.3	1243.5	1243.6	1243.8	1244.0	1245.1	1246.2	1247.3	1248.4	1248.3
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



TEST NUMBER: P331773-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	591.7	592.0	591.5	591.8	591.5	592.0	591.7	593.6	593.9	594.3	593.9
5°	551.3	548.7	548.3	547.7	548.3	548.7	551.3	552.3	553.3	555.0	558.0
7.5°	503.1	502.8	501.6	500.1	501.6	502.8	503.1	506.8	509.7	513.0	519.2
10°	472.1	471.0	470.8	469.3	470.8	471.0	472.1	476.8	480.2	484.9	493.3
12.5°	435.7	428.9	428.2	424.4	428.2	428.9	435.7	441.9	451.1	455.6	464.5
15°	371.1	369.8	365.4	362.7	365.4	369.8	371.1	376.2	379.6	392.0	406.3
17.5°	334.0	329.8	328.5	327.9	328.5	329.8	334.0	336.5	341.4	348.0	356.6
20°	310.2	306.4	305.8	305.3	305.8	306.4	310.2	313.2	317.1	324.1	333.1
22.5°	293.8	289.7	288.1	286.8	288.1	289.7	293.8	296.1	299.6	305.1	311.2
25°	265.7	264.2	263.3	262.9	263.3	264.2	265.7	267.9	271.3	278.8	285.2
27.5°	243.7	240.4	239.8	238.7	239.8	240.4	243.7	247.5	251.1	254.5	260.2
30°	231.2	230.2	228.7	227.3	228.7	230.2	231.2	233.2	235.5	241.3	246.9
32.5°	216.5	215.6	214.2	213.7	214.2	215.6	216.5	219.1	224.0	227.6	231.6
35°	200.2	197.2	195.9	194.0	195.9	197.2	200.2	202.4	204.2	207.3	214.5
37.5°	182.9	181.3	179.6	180.2	179.6	181.3	182.9	183.8	187.8	192.1	195.2
40°	169.6	168.5	168.1	167.9	168.1	168.5	169.6	172.4	177.3	179.2	183.9
42.5°	158.9	156.0	154.9	154.9	154.9	156.0	158.9	162.1	165.1	168.2	173.1
45°	142.8	140.1	138.1	138.3	138.1	140.1	142.8	143.8	146.5	152.7	155.4
47.5°	126.3	126.2	125.0	125.4	125.0	126.2	126.3	128.1	131.4	135.3	139.7
50°	118.4	117.2	116.2	116.5	116.2	117.2	118.4	119.9	121.8	123.8	130.6
52.5°	110.8	109.7	109.1	110.0	109.1	109.7	110.8	111.7	113.1	115.0	119.6
55°	98.5	97.2	97.0	96.8	97.0	97.2	98.5	99.5	101.2	102.7	104.9
57.5°	84.6	83.8	82.5	82.0	82.5	83.8	84.6	86.2	88.3	90.3	92.5
60°	74.7	73.0	70.9	70.7	70.9	73.0	74.7	77.5	78.3	81.3	83.9
62.5°	65.6	65.3	64.8	64.8	64.8	65.3	65.6	66.5	67.8	72.1	75.2
65°	57.6	57.4	57.6	57.8	57.6	57.4	57.6	58.1	58.2	58.6	59.9
67.5°	50.1	49.8	49.4	49.6	49.4	49.8	50.1	50.2	50.9	51.1	52.0
70°	44.5	44.3	44.1	44.1	44.1	44.3	44.5	45.0	45.4	45.8	46.8
72.5°	39.0	39.0	38.8	38.6	38.8	39.0	39.0	39.9	40.1	40.5	41.2
75°	31.3	30.8	30.8	30.8	30.8	30.8	31.3	31.5	31.7	32.3	32.8
77.5°	23.8	23.6	23.4	23.2	23.4	23.6	23.8	23.8	24.2	24.3	24.8
80°	18.9	18.7	18.4	18.4	18.4	18.7	18.9	19.0	19.0	19.7	19.5
82.5°	14.4	14.1	14.1	13.9	14.1	14.1	14.4	14.4	14.4	14.9	14.9
85°	7.7	7.9	7.7	8.1	7.7	7.9	7.7	7.5	7.7	8.1	8.1
87.5°	6.9	6.8	7.0	6.9	7.0	6.8	6.9	6.8	6.8	6.6	6.4
90°	23.1	23.5	23.9	24.3	23.9	23.5	23.1	22.7	22.1	21.0	20.0
92.5°	23.6	23.8	24.0	24.3	24.0	23.8	23.6	23.4	23.0	22.4	22.0
95°	39.3	39.1	38.9	38.7	38.9	39.1	39.3	39.5	39.1	38.2	37.1
97.5°	51.0	51.2	51.5	51.7	51.5	51.2	51.0	50.7	50.2	49.4	48.6
100°	59.1	59.6	59.9	60.3	59.9	59.6	59.1	58.7	57.8	56.2	54.6
102.5°	63.0	63.5	64.1	64.7	64.1	63.5	63.0	62.4	61.1	59.0	56.9
105°	66.1	66.8	67.7	68.4	67.7	66.8	66.1	65.2	63.7	61.5	59.4
107.5°	68.1	68.8	69.7	70.4	69.7	68.8	68.1	67.2	68.0	70.2	72.4
110°	68.7	69.6	70.3	71.2	70.3	69.6	68.7	68.0	77.6	97.6	117.5



TEST NUMBER: P331773-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	69.9	70.6	71.3	71.9	71.3	70.6	69.9	69.3	105.5	178.5	251.5
115°	117.1	102.6	88.2	73.9	88.2	102.6	117.1	131.5	185.0	277.7	370.3
117.5°	443.6	396.2	348.9	301.5	348.9	396.2	443.6	491.0	525.8	548.3	570.6
120°	630.5	603.4	576.4	549.4	576.4	603.4	630.5	657.4	669.8	667.3	665.0
122.5°	701.3	696.1	690.8	685.6	690.8	696.1	701.3	706.5	708.4	707.0	705.6
125°	768.3	768.8	769.4	770.1	769.4	768.8	768.3	767.6	766.7	765.3	763.8
127.5°	823.0	823.1	823.2	823.3	823.2	823.1	823.0	822.8	821.8	819.7	817.7
130°	857.1	856.9	856.7	856.5	856.7	856.9	857.1	857.3	856.3	854.1	851.9
132.5°	889.5	889.3	889.1	888.9	889.1	889.3	889.5	889.8	888.9	887.0	885.1
135°	937.0	936.5	936.1	935.8	936.1	936.5	937.0	937.4	936.5	934.5	932.6
137.5°	980.5	979.8	979.1	978.5	979.1	979.8	980.5	981.2	980.5	978.5	976.6
140°	1008.1	1007.1	1006.1	1005.1	1006.1	1007.1	1008.1	1009.1	1008.7	1006.9	1005.1
142.5°	1034.1	1033.0	1032.1	1031.0	1032.1	1033.0	1034.1	1035.0	1034.7	1033.1	1031.4
145°	1070.3	1069.2	1068.3	1067.2	1068.3	1069.2	1070.3	1071.3	1071.0	1069.7	1068.3
147.5°	1101.6	1100.8	1099.9	1099.1	1099.9	1100.8	1101.6	1102.5	1102.4	1101.4	1100.3
150°	1121.6	1120.6	1119.6	1118.6	1119.6	1120.6	1121.6	1122.6	1122.5	1121.2	1120.1
152.5°	1139.2	1137.8	1136.5	1135.2	1136.5	1137.8	1139.2	1140.5	1140.5	1139.3	1138.1
155°	1163.0	1161.4	1159.8	1158.2	1159.8	1161.4	1163.0	1164.6	1164.8	1163.6	1162.4
157.5°	1183.9	1182.4	1180.8	1179.3	1180.8	1182.4	1183.9	1185.5	1185.6	1184.3	1182.9
160°	1195.7	1194.3	1193.0	1191.6	1193.0	1194.3	1195.7	1197.1	1197.2	1196.0	1194.9
162.5°	1206.7	1205.0	1203.3	1201.6	1203.3	1205.0	1206.7	1208.5	1208.7	1207.3	1206.0
165°	1221.0	1219.6	1218.1	1216.7	1218.1	1219.6	1221.0	1222.4	1222.4	1221.0	1219.6
167.5°	1231.7	1229.9	1228.1	1226.3	1228.1	1229.9	1231.7	1233.5	1233.7	1232.3	1230.9
170°	1237.5	1235.7	1233.9	1232.1	1233.9	1235.7	1237.5	1239.3	1239.4	1238.0	1236.7
172.5°	1241.8	1240.0	1238.2	1236.4	1238.2	1240.0	1241.8	1243.6	1243.8	1242.4	1241.0
175°	1246.1	1244.2	1242.2	1240.2	1242.2	1244.2	1246.1	1248.2	1248.5	1247.1	1245.7
177.5°	1246.8	1245.4	1244.0	1242.6	1244.0	1245.4	1246.8	1248.3	1248.4	1247.3	1246.2
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



TEST NUMBER: P331773-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	592.6	594.9	598.5	600.6	604.0	606.2	607.5	609.6	610.9	615.2	619.6
5°	559.4	562.9	568.8	574.4	580.4	586.6	591.2	596.3	601.0	609.1	617.6
7.5°	521.5	526.2	535.6	544.4	554.9	563.6	571.4	580.1	588.0	599.6	611.8
10°	493.0	501.4	513.6	522.0	535.6	544.4	556.7	566.3	577.2	592.7	606.3
12.5°	468.5	478.6	488.4	500.0	512.4	527.0	540.4	552.8	565.7	581.6	597.8
15°	424.1	438.7	453.9	465.7	482.4	497.8	513.4	530.1	545.9	565.1	586.0
17.5°	366.9	383.8	409.3	429.5	449.1	464.6	484.0	504.2	522.8	545.8	569.2
20°	341.1	353.5	370.8	398.0	427.5	444.0	463.7	486.0	507.4	532.4	557.5
22.5°	320.4	331.4	345.3	366.5	399.4	422.0	442.5	465.1	489.9	515.5	543.3
25°	290.8	298.4	313.0	330.2	352.8	389.8	412.4	435.1	462.0	489.5	521.1
27.5°	268.5	275.5	284.9	301.2	318.1	344.8	380.5	405.3	432.2	463.0	495.9
30°	251.6	259.7	270.2	281.7	300.2	320.9	356.7	385.4	411.9	443.7	478.7
32.5°	239.2	245.6	254.6	266.4	281.6	301.6	330.2	365.0	390.9	424.2	460.9
35°	219.0	226.5	233.8	245.0	257.3	275.5	297.2	334.4	360.1	393.0	429.9
37.5°	202.4	207.0	215.0	223.9	237.0	250.5	269.3	302.7	330.5	362.8	400.5
40°	189.7	195.5	201.4	211.3	222.1	235.1	253.4	278.3	310.2	342.0	378.7
42.5°	177.4	184.6	191.1	197.7	209.3	222.4	237.4	258.4	291.1	321.0	356.8
45°	162.5	167.2	173.8	181.2	190.8	201.9	215.2	233.6	264.9	290.8	324.3
47.5°	145.2	152.1	156.5	163.5	172.7	183.3	195.7	211.6	236.9	261.2	292.4
50°	133.4	140.4	146.7	153.1	161.2	171.4	181.8	197.2	217.5	243.0	272.1
52.5°	123.3	129.5	135.5	141.9	150.0	159.3	169.1	182.7	200.0	223.5	251.8
55°	109.4	113.3	119.5	125.9	133.0	141.9	151.4	162.7	177.7	197.4	220.3
57.5°	95.2	99.6	104.5	111.0	118.2	125.1	133.6	143.8	155.6	173.4	193.0
60°	87.2	90.6	94.6	101.2	107.9	114.1	122.2	130.8	141.9	157.4	174.1
62.5°	78.2	81.5	85.2	91.0	97.5	103.1	110.3	119.3	128.8	142.8	157.4
65°	63.3	68.1	71.7	76.8	82.2	88.2	93.8	101.0	109.4	120.6	133.6
67.5°	52.5	55.0	58.3	63.0	68.4	73.6	78.9	84.5	91.8	100.4	110.7
70°	47.8	48.6	49.2	53.7	58.9	64.0	68.9	74.3	80.5	87.6	96.5
72.5°	42.1	43.0	43.7	45.7	49.8	55.0	60.0	64.0	69.8	75.8	83.0
75°	33.4	34.7	35.3	36.4	37.9	41.3	46.0	49.9	53.3	57.8	63.6
77.5°	25.4	26.2	26.9	28.0	28.9	30.4	33.2	36.6	39.9	42.4	46.4
80°	20.2	20.4	21.2	21.6	22.9	23.9	25.3	28.1	31.3	32.3	35.2
82.5°	15.2	15.4	16.0	16.5	17.1	18.0	19.6	20.4	22.9	24.3	26.0
85°	8.4	8.1	8.8	8.8	9.2	9.6	10.1	11.1	11.8	13.5	13.9
87.5°	6.4	6.1	6.0	5.7	5.4	5.4	5.2	4.9	4.8	4.9	5.2
90°	19.0	18.0	16.4	14.8	13.2	11.6	9.7	7.5	5.3	3.1	0.9
92.5°	21.4	20.9	20.1	19.3	18.5	17.7	17.4	17.6	17.8	18.0	18.2
95°	36.1	35.2	33.7	32.3	30.9	29.5	32.1	38.7	45.3	51.9	58.5
97.5°	47.8	47.0	43.7	40.5	37.3	34.0	41.8	60.3	79.0	97.6	116.2
100°	53.0	51.4	48.0	44.5	41.1	37.7	49.8	77.2	104.5	132.0	159.4
102.5°	54.9	52.8	81.2	109.7	138.2	166.6	183.7	189.5	195.4	201.1	207.0
105°	57.1	55.0	109.6	164.2	218.9	273.5	297.8	291.8	285.8	279.8	273.8
107.5°	74.6	76.9	142.4	207.9	273.5	339.0	369.4	364.5	359.7	354.9	350.0
110°	137.6	157.6	215.5	273.3	331.1	389.0	415.8	411.6	407.4	403.2	399.0



TEST NUMBER: P331773-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	324.5	397.6	411.8	426.1	440.5	454.7	460.0	456.3	452.5	448.8	445.1
115°	463.0	555.7	550.7	545.6	540.6	535.6	531.5	528.1	524.7	521.2	517.8
117.5°	593.0	615.5	612.1	608.6	605.2	601.7	598.1	594.3	590.5	586.7	582.9
120°	662.6	660.2	656.6	653.0	649.3	645.7	642.4	639.4	636.4	633.5	630.5
122.5°	704.1	702.7	698.7	694.8	690.9	687.0	683.4	680.2	677.1	673.9	670.8
125°	762.4	761.0	757.2	753.5	749.6	745.8	742.6	740.0	737.4	734.8	732.2
127.5°	815.7	813.6	810.8	807.9	805.1	802.3	799.4	796.5	793.6	790.8	787.9
130°	849.7	847.5	845.3	843.1	840.8	838.7	835.9	832.7	829.6	826.4	823.2
132.5°	883.3	881.4	879.1	876.9	874.8	872.5	870.1	867.3	864.7	862.0	859.2
135°	930.6	928.6	926.7	924.9	923.1	921.3	918.9	915.7	912.5	909.3	906.1
137.5°	974.7	972.7	970.6	968.6	966.6	964.5	962.3	960.2	957.9	955.6	953.4
140°	1003.3	1001.5	999.3	997.1	994.9	992.7	990.8	989.2	987.6	986.0	984.4
142.5°	1029.8	1028.1	1025.7	1023.1	1020.6	1018.0	1016.1	1014.6	1013.2	1011.7	1010.3
145°	1066.9	1065.5	1062.1	1058.7	1055.3	1051.9	1050.3	1050.5	1050.7	1050.8	1051.0
147.5°	1099.3	1098.3	1094.9	1091.5	1088.2	1084.8	1083.5	1084.2	1085.0	1085.7	1086.6
150°	1118.9	1117.7	1114.5	1111.3	1108.1	1104.8	1104.0	1105.4	1106.7	1108.1	1109.6
152.5°	1136.9	1135.7	1132.7	1129.6	1126.5	1123.5	1122.8	1124.4	1125.9	1127.5	1129.1
155°	1161.2	1160.0	1157.6	1155.2	1152.8	1150.4	1150.1	1151.9	1153.7	1155.5	1157.3
157.5°	1181.6	1180.2	1178.5	1176.9	1175.2	1173.5	1173.4	1174.9	1176.4	1178.0	1179.5
160°	1193.6	1192.4	1191.3	1190.1	1188.8	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4
162.5°	1204.6	1203.2	1202.2	1201.2	1200.1	1199.1	1199.2	1200.3	1201.6	1202.8	1204.0
165°	1218.1	1216.7	1216.2	1215.5	1214.9	1214.4	1214.7	1215.9	1217.0	1218.2	1219.5
167.5°	1229.5	1228.1	1227.6	1227.0	1226.4	1225.9	1226.2	1227.4	1228.6	1229.7	1231.0
170°	1235.3	1233.9	1233.5	1233.0	1232.7	1232.3	1232.7	1233.9	1235.1	1236.2	1237.5
172.5°	1239.6	1238.2	1237.7	1237.4	1237.0	1236.6	1237.0	1238.2	1239.3	1240.6	1241.8
175°	1244.3	1242.8	1242.5	1242.1	1241.7	1241.2	1241.8	1243.2	1244.5	1245.9	1247.4
177.5°	1245.1	1244.0	1243.8	1243.6	1243.5	1243.3	1243.8	1244.9	1246.0	1247.2	1248.3
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



TEST NUMBER: P331773-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	619.8	620.3	623.7	625.3	628.3	629.5	630.9	630.6	630.6	631.2	636.0
5°	621.1	625.4	631.8	638.0	644.0	649.1	652.6	656.0	657.3	663.5	669.0
7.5°	618.9	626.8	637.3	646.9	658.2	667.0	674.4	681.1	685.6	694.7	703.9
10°	616.0	627.1	639.0	651.3	666.9	678.7	690.7	699.9	702.9	716.3	724.1
12.5°	610.1	625.0	640.3	656.1	671.4	687.6	700.8	710.0	720.6	732.6	746.9
15°	601.4	618.5	638.5	658.7	680.6	700.3	714.4	730.5	742.1	755.4	767.8
17.5°	588.9	611.0	636.2	659.8	685.0	706.2	725.7	741.0	749.1	756.8	758.6
20°	578.9	602.7	632.4	660.3	685.5	709.9	729.2	742.1	744.2	744.4	733.1
22.5°	568.2	595.0	626.1	654.6	684.9	712.0	727.0	732.4	724.0	709.5	687.5
25°	548.3	579.4	615.6	648.1	681.1	706.7	711.9	702.3	672.5	641.2	601.6
27.5°	526.8	561.8	600.5	636.7	671.8	687.8	676.7	641.9	588.3	541.7	485.2
30°	511.0	550.3	588.3	628.8	661.4	668.2	642.7	591.5	529.0	458.8	402.5
32.5°	493.0	534.1	576.0	617.8	645.1	638.4	596.3	533.3	460.1	391.0	337.8
35°	467.4	509.7	555.0	596.9	614.3	585.3	522.4	440.4	365.4	301.0	264.4
37.5°	437.7	483.9	530.8	569.4	568.2	520.0	434.2	349.6	286.6	248.5	222.4
40°	416.6	463.4	514.1	546.6	532.7	470.0	377.0	297.2	251.1	220.7	201.7
42.5°	396.4	443.3	493.7	519.5	495.3	418.2	325.6	263.1	225.1	201.4	186.0
45°	362.0	411.5	458.2	472.5	429.2	344.3	263.3	217.9	192.7	175.1	164.5
47.5°	328.4	377.1	419.7	419.9	361.5	279.2	222.2	188.6	167.0	153.4	145.7
50°	307.8	354.1	389.8	384.3	317.9	248.4	198.7	169.8	151.8	141.3	133.2
52.5°	284.7	329.6	360.6	344.8	281.1	218.6	177.6	153.4	138.5	129.3	122.1
55°	251.1	291.0	312.8	288.8	229.3	181.8	150.1	131.0	119.9	112.2	105.9
57.5°	218.1	251.0	264.7	236.8	188.9	150.7	127.0	112.6	101.6	96.0	92.8
60°	197.4	225.5	235.1	204.2	164.2	131.9	112.4	99.2	91.0	87.4	84.2
62.5°	177.0	199.9	203.9	175.7	143.2	115.5	98.7	87.5	82.1	78.6	75.6
65°	146.8	163.3	161.5	138.7	113.3	91.6	79.5	72.6	68.5	63.6	58.2
67.5°	120.9	131.0	124.9	107.9	86.4	71.3	63.2	58.1	53.0	48.4	47.1
70°	104.4	110.3	103.9	88.2	70.9	59.8	53.3	47.1	44.1	43.1	41.1
72.5°	88.7	90.8	83.8	70.4	57.7	49.5	43.2	39.8	38.1	37.2	36.0
75°	66.5	65.1	59.1	48.6	40.1	34.5	32.5	31.3	30.2	29.3	28.7
77.5°	46.8	44.6	39.2	32.3	27.9	25.3	24.0	23.4	22.9	22.4	21.8
80°	35.2	33.6	28.3	23.1	21.2	19.9	19.2	18.4	18.4	18.0	17.3
82.5°	25.7	24.0	19.3	17.0	15.9	15.1	14.6	14.1	13.9	14.0	13.6
85°	13.5	10.9	9.6	9.2	8.6	8.1	8.4	7.9	7.9	7.9	7.7
87.5°	4.7	4.3	4.6	4.8	5.4	5.7	5.8	6.2	6.7	6.7	7.1
90°	3.1	5.3	7.5	9.7	11.6	13.2	14.8	16.4	18.0	19.0	20.0
92.5°	18.0	17.8	17.6	17.4	17.7	18.5	19.3	20.1	20.9	21.4	22.0
95°	51.9	45.3	38.7	32.1	29.5	30.9	32.3	33.7	35.2	36.1	37.1
97.5°	97.6	79.0	60.3	41.8	34.0	37.3	40.5	43.7	47.0	47.8	48.6
100°	132.0	104.5	77.2	49.8	37.7	41.1	44.5	48.0	51.4	53.0	54.6
102.5°	201.1	195.4	189.5	183.7	166.6	138.2	109.7	81.2	52.8	54.9	56.9
105°	279.8	285.8	291.8	297.8	273.5	218.9	164.2	109.6	55.0	57.1	59.4
107.5°	354.9	359.7	364.5	369.4	339.0	273.5	207.9	142.4	76.9	74.6	72.4
110°	403.2	407.4	411.6	415.8	389.0	331.1	273.3	215.5	157.6	137.6	117.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	448.8	452.5	456.3	460.0	454.7	440.5	426.1	411.8	397.6	324.5	251.5
115°	521.2	524.7	528.1	531.5	535.6	540.6	545.6	550.7	555.7	463.0	370.3
117.5°	586.7	590.5	594.3	598.1	601.7	605.2	608.6	612.1	615.5	593.0	570.6
120°	633.5	636.4	639.4	642.4	645.7	649.3	653.0	656.6	660.2	662.6	665.0
122.5°	673.9	677.1	680.2	683.4	687.0	690.9	694.8	698.7	702.7	704.1	705.6
125°	734.8	737.4	740.0	742.6	745.8	749.6	753.5	757.2	761.0	762.4	763.8
127.5°	790.8	793.6	796.5	799.4	802.3	805.1	807.9	810.8	813.6	815.7	817.7
130°	826.4	829.6	832.7	835.9	838.7	840.8	843.1	845.3	847.5	849.7	851.9
132.5°	862.0	864.7	867.3	870.1	872.5	874.8	876.9	879.1	881.4	883.3	885.1
135°	909.3	912.5	915.7	918.9	921.3	923.1	924.9	926.7	928.6	930.6	932.6
137.5°	955.6	957.9	960.2	962.3	964.5	966.6	968.6	970.6	972.7	974.7	976.6
140°	986.0	987.6	989.2	990.8	992.7	994.9	997.1	999.3	1001.5	1003.3	1005.1
142.5°	1011.7	1013.2	1014.6	1016.1	1018.0	1020.6	1023.1	1025.7	1028.1	1029.8	1031.4
145°	1050.8	1050.7	1050.5	1050.3	1051.9	1055.3	1058.7	1062.1	1065.5	1066.9	1068.3
147.5°	1085.7	1085.0	1084.2	1083.5	1084.8	1088.2	1091.5	1094.9	1098.3	1099.3	1100.3
150°	1108.1	1106.7	1105.4	1104.0	1104.8	1108.1	1111.3	1114.5	1117.7	1118.9	1120.1
152.5°	1127.5	1125.9	1124.4	1122.8	1123.5	1126.5	1129.6	1132.7	1135.7	1136.9	1138.1
155°	1155.5	1153.7	1151.9	1150.1	1150.4	1152.8	1155.2	1157.6	1160.0	1161.2	1162.4
157.5°	1178.0	1176.4	1174.9	1173.4	1173.5	1175.2	1176.9	1178.5	1180.2	1181.6	1182.9
160°	1191.3	1190.1	1188.8	1187.6	1187.6	1188.8	1190.1	1191.3	1192.4	1193.6	1194.9
162.5°	1202.8	1201.6	1200.3	1199.2	1199.1	1200.1	1201.2	1202.2	1203.2	1204.6	1206.0
165°	1218.2	1217.0	1215.9	1214.7	1214.4	1214.9	1215.5	1216.2	1216.7	1218.1	1219.6
167.5°	1229.7	1228.6	1227.4	1226.2	1225.9	1226.4	1227.0	1227.6	1228.1	1229.5	1230.9
170°	1236.2	1235.1	1233.9	1232.7	1232.3	1232.7	1233.0	1233.5	1233.9	1235.3	1236.7
172.5°	1240.6	1239.3	1238.2	1237.0	1236.6	1237.0	1237.4	1237.7	1238.2	1239.6	1241.0
175°	1245.9	1244.5	1243.2	1241.8	1241.2	1241.7	1242.1	1242.5	1242.8	1244.3	1245.7
177.5°	1247.2	1246.0	1244.9	1243.8	1243.3	1243.5	1243.6	1243.8	1244.0	1245.1	1246.2
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	637.7	640.0	641.0	641.0	642.2	641.7	641.2
5°	674.4	678.4	679.4	683.2	686.0	685.1	685.5
7.5°	710.9	717.4	723.9	726.8	727.3	729.0	729.6
10°	733.3	738.7	748.7	747.2	754.7	759.0	752.0
12.5°	754.9	762.1	769.1	771.0	775.2	776.7	773.8
15°	774.4	778.3	778.6	777.6	778.9	777.8	773.7
17.5°	756.2	749.9	737.3	731.2	726.5	719.4	716.6
20°	726.0	707.6	686.2	677.6	667.6	647.9	652.6
22.5°	660.9	640.0	618.5	593.5	581.5	562.9	561.8
25°	559.7	523.5	483.6	455.8	439.5	420.9	412.7
27.5°	435.2	389.6	356.9	340.4	325.4	310.7	310.0
30°	353.3	319.1	293.8	279.7	270.4	264.2	265.5
32.5°	297.7	274.3	257.2	245.5	238.7	234.0	233.9
35°	243.5	227.3	216.4	211.5	206.6	203.2	203.4
37.5°	208.3	198.7	192.6	187.2	184.1	182.4	181.4
40°	190.3	182.4	177.7	174.5	171.9	169.6	169.1
42.5°	176.2	169.6	164.9	162.3	159.9	158.3	157.9
45°	156.3	150.9	146.7	143.8	142.8	141.3	141.3
47.5°	139.0	133.7	130.4	128.7	126.9	125.8	125.8
50°	127.4	123.3	120.4	119.2	117.7	117.2	116.9
52.5°	117.0	113.9	111.8	111.0	110.4	109.6	109.7
55°	102.7	101.0	100.2	99.5	98.5	97.2	98.0
57.5°	90.9	89.4	87.1	85.0	84.1	83.1	83.5
60°	82.5	79.5	76.4	74.1	73.4	71.5	71.5
62.5°	71.8	67.6	63.9	62.6	61.9	61.1	60.9
65°	55.2	53.5	52.7	51.8	51.4	51.4	51.0
67.5°	45.8	45.1	44.1	43.9	43.5	43.4	43.3
70°	40.4	39.6	39.2	38.9	38.5	38.7	38.1
72.5°	35.3	34.7	34.6	34.0	33.7	33.7	33.3
75°	27.8	27.8	27.6	27.4	27.0	26.8	27.0
77.5°	21.4	21.5	21.1	21.0	21.0	21.0	20.8
80°	17.2	17.3	17.2	16.9	16.7	16.9	16.7
82.5°	13.6	13.2	13.2	13.1	13.1	13.0	12.9
85°	7.7	7.9	7.7	7.5	7.5	7.5	7.7
87.5°	7.1	7.4	7.4	7.5	7.6	7.7	7.6
90°	21.0	22.1	22.7	23.1	23.5	23.9	24.3
92.5°	22.4	23.0	23.4	23.6	23.8	24.0	24.3
95°	38.2	39.1	39.5	39.3	39.1	38.9	38.7
97.5°	49.4	50.2	50.7	51.0	51.2	51.5	51.7
100°	56.2	57.8	58.7	59.1	59.6	59.9	60.3
102.5°	59.0	61.1	62.4	63.0	63.5	64.1	64.7
105°	61.5	63.7	65.2	66.1	66.8	67.7	68.4
107.5°	70.2	68.0	67.2	68.1	68.8	69.7	70.4
110°	97.6	77.6	68.0	68.7	69.6	70.3	71.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	178.5	105.5	69.3	69.9	70.6	71.3	71.9
115°	277.7	185.0	131.5	117.1	102.6	88.2	73.9
117.5°	548.3	525.8	491.0	443.6	396.2	348.9	301.5
120°	667.3	669.8	657.4	630.5	603.4	576.4	549.4
122.5°	707.0	708.4	706.5	701.3	696.1	690.8	685.6
125°	765.3	766.7	767.6	768.3	768.8	769.4	770.1
127.5°	819.7	821.8	822.8	823.0	823.1	823.2	823.3
130°	854.1	856.3	857.3	857.1	856.9	856.7	856.5
132.5°	887.0	888.9	889.8	889.5	889.3	889.1	888.9
135°	934.5	936.5	937.4	937.0	936.5	936.1	935.8
137.5°	978.5	980.5	981.2	980.5	979.8	979.1	978.5
140°	1006.9	1008.7	1009.1	1008.1	1007.1	1006.1	1005.1
142.5°	1033.1	1034.7	1035.0	1034.1	1033.0	1032.1	1031.0
145°	1069.7	1071.0	1071.3	1070.3	1069.2	1068.3	1067.2
147.5°	1101.4	1102.4	1102.5	1101.6	1100.8	1099.9	1099.1
150°	1121.2	1122.5	1122.6	1121.6	1120.6	1119.6	1118.6
152.5°	1139.3	1140.5	1140.5	1139.2	1137.8	1136.5	1135.2
155°	1163.6	1164.8	1164.6	1163.0	1161.4	1159.8	1158.2
157.5°	1184.3	1185.6	1185.5	1183.9	1182.4	1180.8	1179.3
160°	1196.0	1197.2	1197.1	1195.7	1194.3	1193.0	1191.6
162.5°	1207.3	1208.7	1208.5	1206.7	1205.0	1203.3	1201.6
165°	1221.0	1222.4	1222.4	1221.0	1219.6	1218.1	1216.7
167.5°	1232.3	1233.7	1233.5	1231.7	1229.9	1228.1	1226.3
170°	1238.0	1239.4	1239.3	1237.5	1235.7	1233.9	1232.1
172.5°	1242.4	1243.8	1243.6	1241.8	1240.0	1238.2	1236.4
175°	1247.1	1248.5	1248.2	1246.1	1244.2	1242.2	1240.2
177.5°	1247.3	1248.4	1248.3	1246.8	1245.4	1244.0	1242.6
180°	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6	1244.6

(END OF REPORT)