

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: P332883-940

Luminaire Tested: **SA4XXRDIP-C350D1035U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332883-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C350D1035U940-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

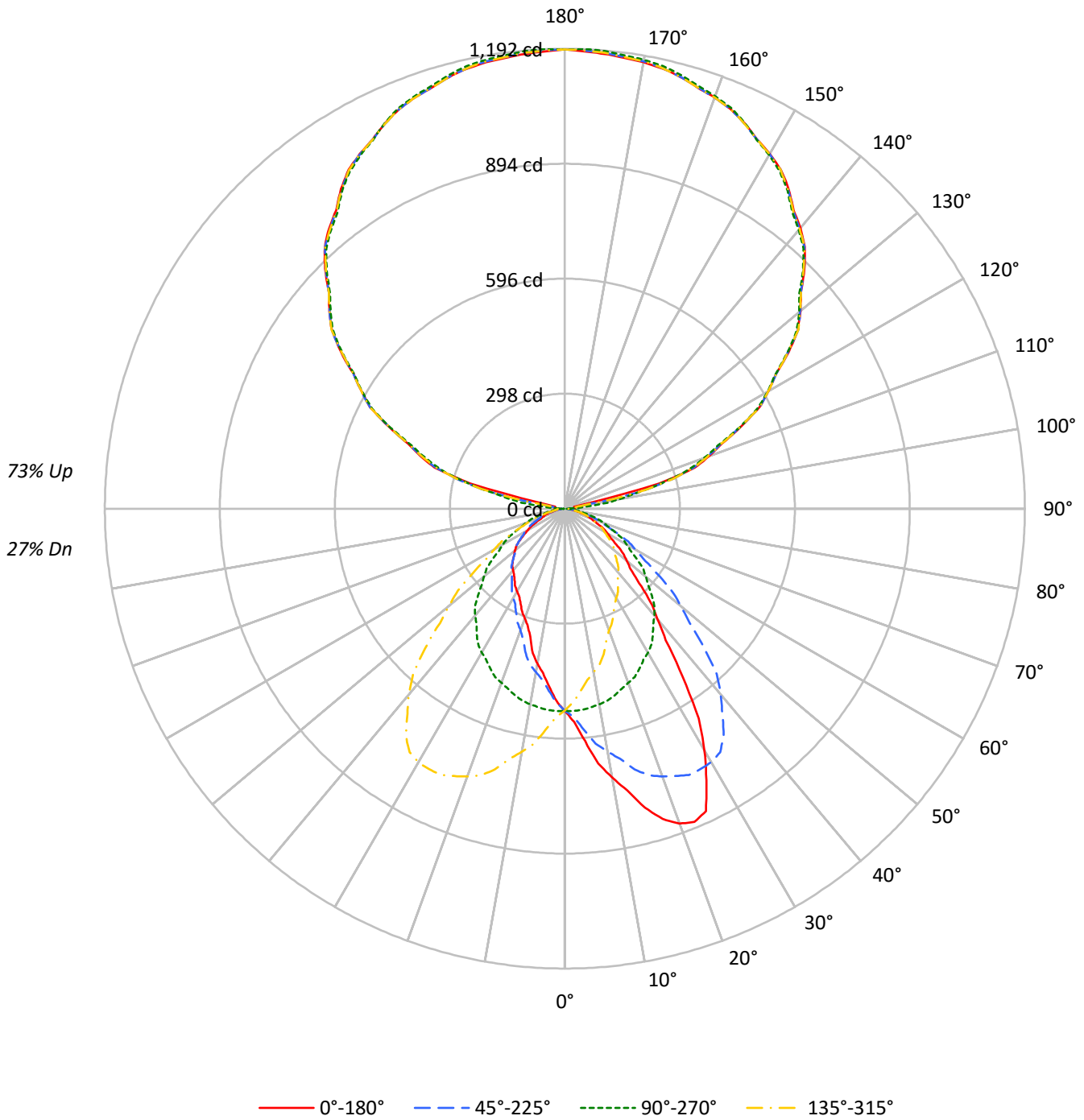
Lumens per Lamp: N/A
Luminaire Lumens: 5009.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27				27
1	93	89	85	82	83	79	76	74	62	60	58	46	44	43	31	30	30	23				23
2	85	78	72	67	75	70	65	61	54	51	48	40	38	36	27	26	25	19				19
3	77	68	61	56	69	61	56	51	48	44	41	36	33	31	24	23	22	17				17
4	71	61	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19	15				15
5	65	54	46	41	58	48	42	37	38	34	30	29	26	23	20	18	17	13				13
6	60	48	41	35	53	43	37	32	34	30	26	26	23	20	18	16	15	11				11
7	55	43	36	31	49	39	33	28	31	26	23	24	20	18	16	15	13	10				10
8	51	39	32	27	45	36	29	25	28	24	20	22	18	16	15	13	12	9				9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8				8
10	44	33	26	21	39	30	24	20	24	19	16	18	15	13	13	11	10	7				7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4229	4229	4229	4229
5°	4905	4241	3749	4241
10°	5802	4223	3345	4223
15°	6702	4184	2875	4184
20°	7462	4130	2600	4130
25°	7704	4077	2414	4077
30°	6743	4013	2302	4013
35°	5249	3918	2234	3918
40°	3936	3810	2197	3810
45°	3108	3635	2177	3635
50°	2624	3435	2115	3435
55°	2287	3215	2001	3215
60°	2057	2985	1773	2985
65°	1815	2737	1524	2737
70°	1633	2481	1374	2481
75°	1369	2196	1170	2196
80°	1158	1874	1097	1874
85°	973	1473	973	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	1.0
10°-20°	153.1	3.1
20°-30°	239.4	4.8
30°-40°	266.2	5.3
40°-50°	236.2	4.7
50°-60°	184.0	3.7
60°-70°	120.5	2.4
70°-80°	59.3	1.2
80°-90°	18.1	0.4
90°-100°	40.7	0.8
100°-110°	259.5	5.2
110°-120°	496.5	9.9
120°-130°	630.3	12.6
130°-140°	674.3	13.5
140°-150°	630.6	12.6
150°-160°	508.5	10.2
160°-170°	328.0	6.5
170°-180°	113.0	2.3
0°-30°	443.3	8.8
0°-40°	709.5	14.2
0°-60°	1129.7	22.6
0°-90°	1327.5	26.5
90°-120°	796.7	15.9
90°-150°	2731.9	54.5
90°-180°	3681.0	73.5
0°-180°	5009.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	524	524	524	524	524	
5°	605	523	463	523	605	61
15°	802	501	344	501	802	228
25°	865	458	271	458	865	384
35°	533	398	227	398	533	334
45°	272	318	191	318	272	216
55°	162	228	142	228	162	148
65°	95	143	80	143	95	96
75°	44	70	38	70	44	48
85°	10	16	10	16	10	13
90°	27	3	27	3	27	12
95°	26	49	26	49	26	21
105°	254	268	254	268	254	221
115°	504	500	504	500	504	499
125°	709	703	709	703	709	631
135°	879	872	879	872	879	676
145°	1011	1006	1011	1006	1011	632
155°	1102	1103	1102	1103	1102	508
165°	1158	1163	1158	1163	1158	327
175°	1183	1190	1183	1190	1183	113
180°	1190	1190	1190	1190	1190	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	552.5	554.0	552.5	552.3	550.6	550.1	549.5	547.2	543.2	540.8	541.4
5°	605.3	610.6	607.6	607.2	602.5	597.9	594.9	588.2	580.9	576.1	572.1
7.5°	666.3	669.3	667.4	664.5	657.0	652.7	645.9	637.0	624.1	614.3	605.3
10°	707.8	710.3	709.5	704.0	698.6	687.3	681.0	668.6	652.3	639.4	627.4
12.5°	748.7	751.4	744.0	744.2	733.8	725.0	715.0	699.3	680.6	664.0	648.9
15°	801.9	798.5	798.5	794.3	782.7	770.5	760.2	743.7	720.1	700.3	679.3
17.5°	843.6	844.8	843.1	833.1	824.0	811.4	792.4	773.2	751.3	724.6	703.3
20°	868.6	868.6	866.7	860.0	848.2	834.6	814.2	793.3	765.4	738.6	714.6
22.5°	878.8	879.4	877.2	871.6	861.0	847.8	830.4	809.1	780.4	750.3	720.5
25°	864.9	868.9	869.2	867.8	864.6	856.6	841.6	819.9	794.2	761.4	729.3
27.5°	794.0	799.1	803.5	810.8	820.6	825.5	826.3	815.2	792.7	761.3	729.0
30°	723.4	727.6	741.4	759.3	773.2	785.9	796.9	799.9	787.2	758.9	725.0
32.5°	645.1	650.9	664.6	683.9	707.0	728.5	753.1	765.7	765.4	748.4	717.0
35°	532.6	536.9	549.6	569.8	597.6	629.5	668.6	698.9	719.6	718.2	698.9
37.5°	429.6	434.4	447.1	464.0	491.0	530.4	568.2	610.1	648.3	669.8	663.3
40°	373.5	373.7	386.2	403.5	428.8	463.2	504.4	550.8	593.4	628.3	635.0
42.5°	329.3	329.3	337.6	356.2	374.4	406.8	446.1	492.2	542.2	582.4	600.2
45°	272.2	274.1	280.9	292.0	306.4	333.9	365.3	408.1	464.0	511.8	541.5
47.5°	230.5	233.4	237.6	246.7	258.2	276.4	302.5	341.0	386.5	438.9	481.3
50°	208.9	209.4	214.8	219.9	229.8	244.4	267.2	299.3	341.1	391.5	438.5
52.5°	190.4	190.3	193.6	200.0	208.0	219.4	237.8	267.0	304.1	349.3	397.9
55°	162.5	163.5	166.1	171.1	177.3	185.3	199.8	221.8	250.9	289.5	333.7
57.5°	141.3	141.9	143.8	146.0	151.6	157.5	168.4	183.6	208.1	239.8	280.9
60°	127.4	127.7	128.3	131.4	135.9	141.4	148.8	161.7	182.4	211.2	243.8
62.5°	114.0	114.3	115.3	117.6	121.1	124.8	132.6	142.9	160.1	184.8	214.0
65°	95.0	95.1	96.7	97.5	100.2	103.6	109.3	116.3	128.1	148.8	170.9
67.5°	79.4	79.4	79.5	80.6	82.5	84.7	88.1	93.7	102.6	115.3	134.8
70°	69.2	69.2	69.6	70.3	71.3	73.2	75.2	79.4	85.9	96.2	111.2
72.5°	59.7	59.9	60.4	60.5	61.0	62.6	64.0	66.7	71.5	79.4	91.5
75°	43.9	44.5	45.6	46.5	47.5	47.3	48.8	50.5	51.9	56.5	63.5
77.5°	32.6	32.4	32.5	33.2	33.3	33.5	34.6	35.8	37.0	39.1	41.6
80°	24.9	24.9	25.5	25.8	25.5	25.8	26.8	27.5	27.8	28.7	31.0
82.5°	18.8	19.2	19.0	19.2	19.3	19.5	20.4	20.5	21.0	21.3	22.2
85°	10.5	10.8	11.0	10.5	10.5	10.5	11.0	11.1	11.6	11.4	11.9
87.5°	9.1	8.8	8.9	8.8	8.9	8.6	8.5	8.6	8.0	7.9	7.7
90°	26.7	26.3	25.9	25.5	25.1	24.3	23.2	21.9	20.8	19.6	18.0
92.5°	24.6	24.5	24.4	24.3	24.3	23.6	22.5	21.2	20.1	18.9	17.3
95°	25.8	25.6	25.4	25.2	25.1	24.3	23.2	21.9	20.8	19.6	19.4
97.5°	25.0	24.7	24.5	24.3	24.2	24.0	23.9	23.7	23.6	23.5	45.6
100°	25.0	24.7	24.5	24.3	24.2	25.7	29.1	32.5	35.8	39.1	66.4
102.5°	25.7	25.6	25.6	25.5	25.5	43.6	79.9	116.2	152.4	188.7	192.3
105°	253.7	260.8	268.0	275.1	282.2	284.8	283.0	281.3	279.6	277.8	276.8
107.5°	353.6	352.8	352.0	351.3	350.5	349.7	348.9	348.0	347.1	346.3	344.9
110°	397.0	396.5	395.8	395.2	394.7	394.1	393.8	393.3	393.0	392.5	391.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	440.4	439.7	439.0	438.2	437.5	437.1	437.2	437.3	437.4	437.4	436.8
115°	503.8	503.8	503.8	503.8	503.8	503.6	503.3	502.8	502.5	502.0	502.2
117.5°	568.3	568.4	568.5	568.6	568.6	568.6	568.7	568.8	568.9	569.0	568.6
120°	608.9	609.3	609.7	610.0	610.5	610.5	610.0	609.7	609.3	608.9	609.0
122.5°	648.7	649.2	649.5	650.0	650.3	650.4	650.1	650.0	649.7	649.4	649.2
125°	708.6	708.4	708.2	708.0	707.8	707.4	706.8	706.2	705.6	705.0	705.4
127.5°	761.1	761.3	761.4	761.6	761.7	761.9	762.0	762.1	762.2	762.3	761.4
130°	796.7	796.7	796.7	796.7	796.7	796.6	796.4	796.2	796.0	795.9	795.2
132.5°	829.5	829.6	829.7	829.9	830.1	830.1	829.9	829.6	829.5	829.3	828.5
135°	878.6	878.2	877.8	877.4	877.0	876.6	876.2	875.8	875.4	875.0	874.2
137.5°	920.6	920.7	920.9	921.0	921.0	921.0	920.5	920.1	919.6	919.2	918.3
140°	949.9	949.6	949.4	949.2	949.0	948.6	948.1	947.4	946.8	946.3	945.8
142.5°	974.0	974.0	973.9	973.9	973.8	973.7	973.2	972.8	972.3	971.9	971.6
145°	1011.2	1010.8	1010.4	1010.0	1009.7	1009.3	1009.1	1009.0	1008.8	1008.5	1008.5
147.5°	1042.1	1041.9	1041.6	1041.4	1041.3	1041.1	1040.9	1040.7	1040.6	1040.4	1040.6
150°	1061.9	1061.8	1061.6	1061.4	1061.1	1061.0	1061.0	1061.0	1061.0	1061.0	1061.3
152.5°	1079.1	1079.1	1079.3	1079.4	1079.5	1079.4	1079.1	1078.8	1078.5	1078.2	1078.5
155°	1102.1	1102.6	1103.2	1103.8	1104.4	1104.3	1103.5	1102.7	1101.9	1101.2	1101.7
157.5°	1121.2	1122.3	1123.3	1124.4	1125.3	1125.3	1124.4	1123.3	1122.3	1121.2	1122.0
160°	1134.1	1135.2	1136.5	1137.6	1138.8	1138.8	1137.6	1136.5	1135.2	1134.1	1134.3
162.5°	1144.1	1145.4	1146.7	1148.1	1149.4	1149.5	1148.3	1147.1	1145.9	1144.8	1145.0
165°	1158.1	1159.8	1161.6	1163.4	1165.2	1165.3	1163.8	1162.2	1160.6	1159.0	1159.0
167.5°	1168.6	1170.5	1172.6	1174.6	1176.5	1176.6	1174.9	1173.1	1171.4	1169.7	1169.8
170°	1175.0	1177.0	1179.0	1181.0	1182.9	1183.1	1181.5	1180.0	1178.4	1176.8	1176.6
172.5°	1178.6	1180.7	1182.9	1185.0	1187.1	1187.4	1185.8	1184.3	1182.7	1181.1	1180.9
175°	1183.0	1185.4	1187.8	1190.2	1192.5	1192.8	1191.1	1189.3	1187.5	1185.7	1185.5
177.5°	1185.9	1187.8	1189.7	1191.6	1193.5	1193.8	1192.5	1191.2	1190.0	1188.7	1188.4
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	539.7	537.3	536.1	533.4	530.2	528.5	527.0	524.8	521.9	518.9	516.7
5°	567.0	562.0	555.6	548.0	541.4	534.8	529.1	523.3	516.8	510.1	503.4
7.5°	595.1	585.2	574.4	562.0	549.9	538.9	528.7	519.1	508.1	498.2	489.3
10°	614.7	601.3	586.3	570.4	554.6	540.9	527.4	515.1	501.7	489.6	479.5
12.5°	630.6	614.7	596.7	577.0	557.9	541.4	525.8	509.9	494.5	481.5	468.0
15°	656.9	635.3	611.0	587.3	562.7	540.0	519.2	500.6	483.0	464.7	451.8
17.5°	675.1	649.3	619.7	591.4	562.2	535.6	511.5	489.4	469.1	450.4	435.1
20°	685.9	657.4	624.6	592.4	559.6	531.2	505.2	480.7	459.9	439.6	423.7
22.5°	692.0	660.4	624.6	590.8	557.0	526.1	497.7	472.2	449.4	429.1	411.6
25°	693.9	660.1	623.7	584.8	547.7	515.0	485.4	457.7	432.4	412.1	393.6
27.5°	691.2	651.4	614.0	574.2	535.8	501.4	470.4	441.3	416.0	394.2	375.1
30°	687.2	644.5	604.4	563.0	524.2	491.1	458.3	430.5	404.1	381.6	362.4
32.5°	678.3	636.1	592.9	550.5	511.2	477.1	446.0	418.0	392.2	369.1	348.7
35°	660.9	618.1	571.3	527.8	489.2	453.7	424.6	397.6	372.9	348.2	326.7
37.5°	638.0	594.3	547.7	500.1	461.4	427.9	401.3	375.9	351.8	329.2	305.4
40°	616.4	576.6	528.4	481.2	441.5	409.2	384.5	361.5	337.2	314.9	291.1
42.5°	590.3	556.3	507.7	460.2	421.1	389.9	366.9	344.5	322.4	300.7	275.8
45°	546.6	520.8	475.3	429.7	390.2	359.4	338.3	318.4	299.1	278.4	254.9
47.5°	496.5	479.1	439.8	393.1	356.6	328.9	308.4	292.2	275.8	255.1	234.6
50°	461.7	450.6	412.6	370.0	335.1	309.6	288.7	273.5	259.8	240.0	221.6
52.5°	424.6	418.7	386.6	345.8	312.2	287.1	269.3	255.7	241.7	225.2	208.1
55°	368.0	371.2	344.0	308.7	277.1	256.0	239.8	228.4	216.5	202.6	189.3
57.5°	310.2	321.8	303.5	272.6	242.9	223.4	211.2	201.6	191.6	180.1	168.7
60°	275.6	285.3	275.0	247.7	221.8	203.7	192.3	184.9	175.0	164.4	155.8
62.5°	241.8	252.3	246.1	224.1	200.0	184.4	174.3	167.5	160.1	150.9	141.9
65°	199.5	206.2	203.2	188.1	170.9	157.7	148.4	143.3	136.5	129.8	121.8
67.5°	152.8	165.8	164.1	156.0	141.2	130.8	124.8	120.3	114.1	109.1	103.7
70°	125.6	137.6	137.4	130.8	122.8	113.2	108.9	105.1	99.6	94.8	90.3
72.5°	102.8	113.8	115.5	110.4	105.0	97.6	93.5	91.0	85.6	82.3	78.6
75°	72.0	80.0	82.1	82.1	79.5	75.8	72.1	70.4	66.7	63.8	61.6
77.5°	47.2	52.3	55.6	56.3	56.7	55.4	52.4	51.3	48.3	47.3	45.3
80°	33.3	36.7	40.5	41.8	42.8	42.4	41.2	40.3	37.5	36.5	35.7
82.5°	23.0	24.9	28.0	30.9	30.5	31.7	30.5	29.9	27.7	27.4	26.6
85°	12.0	12.2	12.7	14.5	15.6	16.1	16.2	15.9	15.2	15.2	13.7
87.5°	7.3	6.9	6.9	6.5	6.2	6.5	6.5	6.2	6.2	6.2	6.1
90°	16.4	14.8	13.3	11.4	9.2	7.0	4.8	2.7	4.8	7.0	9.2
92.5°	15.7	14.1	12.6	11.7	11.6	11.4	11.3	11.2	11.3	11.4	11.6
95°	19.2	19.0	18.8	22.0	28.8	35.5	42.3	49.0	42.3	35.5	28.8
97.5°	67.7	89.7	111.8	120.7	116.5	112.4	108.2	104.0	108.2	112.4	116.5
100°	93.8	121.1	148.4	160.2	156.7	153.1	149.5	146.0	149.5	153.1	156.7
102.5°	195.8	199.4	203.0	203.4	200.8	198.2	195.6	193.0	195.6	198.2	200.8
105°	275.7	274.7	273.8	272.7	271.5	270.3	269.1	268.0	269.1	270.3	271.5
107.5°	343.6	342.2	340.9	339.9	339.3	338.8	338.1	337.5	338.1	338.8	339.3
110°	390.2	389.0	387.8	386.9	386.3	385.8	385.1	384.6	385.1	385.8	386.3



TEST NUMBER: P332883-940

CATALOG NUMBER: SA4XXRDIP-C350D1035U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	436.3	435.8	435.2	434.4	433.4	432.3	431.2	430.2	431.2	432.3	433.4
115°	502.5	502.7	502.8	502.7	502.0	501.5	500.9	500.2	500.9	501.5	502.0
117.5°	568.1	567.7	567.2	566.7	565.9	565.1	564.3	563.5	564.3	565.1	565.9
120°	609.3	609.5	609.7	609.4	608.6	607.8	607.0	606.2	607.0	607.8	608.6
122.5°	648.9	648.6	648.4	648.0	647.5	647.0	646.6	646.0	646.6	647.0	647.5
125°	705.8	706.2	706.6	706.4	705.6	704.8	704.0	703.2	704.0	704.8	705.6
127.5°	760.5	759.6	758.7	758.1	758.0	757.8	757.5	757.3	757.5	757.8	758.0
130°	794.6	794.1	793.4	793.0	792.8	792.6	792.5	792.3	792.5	792.6	792.8
132.5°	827.8	827.1	826.3	825.7	825.4	825.0	824.7	824.3	824.7	825.0	825.4
135°	873.4	872.6	871.8	871.6	871.7	872.0	872.2	872.4	872.2	872.0	871.7
137.5°	917.5	916.6	915.7	915.3	915.2	915.1	915.0	914.9	915.0	915.1	915.2
140°	945.5	945.0	944.7	944.2	943.9	943.5	943.1	942.7	943.1	943.5	943.9
142.5°	971.4	971.2	970.9	970.4	969.7	969.0	968.3	967.6	968.3	969.0	969.7
145°	1008.5	1008.5	1008.5	1008.3	1007.6	1007.1	1006.5	1005.8	1006.5	1007.1	1007.6
147.5°	1040.8	1041.0	1041.3	1040.8	1039.6	1038.6	1037.4	1036.3	1037.4	1038.6	1039.6
150°	1061.5	1061.7	1061.8	1061.6	1060.8	1060.0	1059.2	1058.4	1059.2	1060.0	1060.8
152.5°	1078.9	1079.2	1079.6	1079.4	1078.8	1078.2	1077.5	1076.9	1077.5	1078.2	1078.8
155°	1102.3	1103.0	1103.5	1103.7	1103.5	1103.3	1103.1	1103.0	1103.1	1103.3	1103.5
157.5°	1122.6	1123.3	1123.9	1124.4	1124.4	1124.5	1124.7	1124.8	1124.7	1124.5	1124.4
160°	1134.4	1134.7	1134.9	1135.2	1135.9	1136.5	1137.0	1137.6	1137.0	1136.5	1135.9
162.5°	1145.1	1145.3	1145.6	1146.0	1146.7	1147.5	1148.3	1149.1	1148.3	1147.5	1146.7
165°	1159.0	1159.0	1159.0	1159.5	1160.5	1161.5	1162.4	1163.4	1162.4	1161.5	1160.5
167.5°	1169.9	1170.0	1170.2	1170.7	1171.8	1172.8	1173.8	1174.8	1173.8	1172.8	1171.8
170°	1176.4	1176.2	1176.0	1176.5	1177.7	1178.8	1180.1	1181.2	1180.1	1178.8	1177.7
172.5°	1180.7	1180.4	1180.3	1180.8	1182.0	1183.1	1184.4	1185.5	1184.4	1183.1	1182.0
175°	1185.4	1185.1	1184.9	1185.4	1186.6	1187.8	1189.0	1190.2	1189.0	1187.8	1186.6
177.5°	1188.1	1187.8	1187.5	1187.8	1189.0	1190.1	1191.1	1192.3	1191.1	1190.1	1189.0
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



TEST NUMBER: P332883-940

CATALOG NUMBER: SA4XXRDIP-C350D1035U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	514.3	512.6	510.5	507.9	504.9	502.2	501.0	502.0	502.6	501.1	501.0
5°	498.6	493.4	489.2	482.9	477.8	473.6	470.6	469.3	469.8	466.4	465.6
7.5°	481.1	474.8	467.9	460.4	453.4	447.2	444.0	442.2	438.5	437.0	434.4
10°	469.8	461.4	454.6	445.7	437.7	430.3	426.7	423.7	420.2	418.5	414.9
12.5°	458.2	448.4	440.9	431.7	423.5	414.6	411.2	405.7	400.1	396.5	391.9
15°	441.7	429.9	420.8	409.8	400.1	390.0	380.9	370.8	367.0	359.0	354.4
17.5°	422.5	410.5	399.3	384.6	369.6	357.0	347.3	337.6	331.8	326.7	324.3
20°	409.8	398.9	383.3	366.1	349.5	335.6	327.7	321.4	315.0	311.5	309.0
22.5°	397.9	383.8	365.7	347.2	330.6	319.7	313.1	306.6	301.4	298.0	294.6
25°	377.7	359.4	340.2	319.1	307.7	298.2	291.1	285.7	282.6	278.1	276.4
27.5°	357.1	334.8	313.7	299.5	287.7	278.9	272.7	268.8	264.7	261.9	259.7
30°	341.3	318.7	299.7	286.1	274.1	267.0	261.9	257.3	254.0	251.7	250.1
32.5°	325.6	303.0	287.0	272.5	263.0	256.0	250.6	247.1	244.6	241.7	240.6
35°	302.8	282.8	268.9	255.7	246.1	239.8	235.5	231.9	229.8	229.0	228.4
37.5°	281.0	264.6	249.6	238.9	230.2	225.2	220.3	218.5	217.0	215.5	216.2
40°	267.2	251.7	238.4	227.1	220.1	214.6	211.7	209.6	208.3	208.3	208.3
42.5°	255.2	240.1	227.1	217.0	210.0	205.4	202.1	200.3	199.8	199.7	200.7
45°	236.6	222.7	209.6	201.1	195.2	190.6	188.7	187.2	187.2	188.1	188.2
47.5°	218.1	205.1	194.6	185.1	179.7	176.8	175.1	174.4	174.5	175.3	176.3
50°	206.8	193.9	183.6	175.1	170.1	167.4	165.9	165.4	165.9	165.9	167.4
52.5°	194.5	183.0	172.8	165.7	160.0	157.4	156.6	156.0	156.2	156.9	157.6
55°	176.5	166.1	156.4	149.6	145.4	143.7	141.8	142.0	141.6	142.0	142.0
57.5°	158.3	149.0	140.0	134.6	130.9	128.5	126.4	127.0	126.4	126.3	125.9
60°	146.7	136.5	129.4	124.5	120.3	118.2	116.3	116.7	116.1	115.7	114.8
62.5°	134.0	125.6	118.7	114.0	110.7	108.3	106.3	105.9	104.4	103.0	101.1
65°	115.7	108.7	102.5	98.2	95.0	93.1	91.6	90.3	87.1	83.8	82.1
67.5°	97.8	92.7	87.0	83.3	80.7	78.3	75.4	73.3	70.4	68.5	67.4
70°	86.3	81.5	76.6	73.0	70.3	67.9	64.8	63.3	61.2	60.4	59.3
72.5°	75.3	70.8	66.3	63.0	60.2	58.3	55.8	54.4	53.4	53.1	52.1
75°	58.7	55.1	51.7	48.8	46.5	45.1	44.1	43.1	42.6	40.8	39.7
77.5°	42.8	40.4	38.3	36.2	34.6	33.7	31.7	30.5	29.8	28.9	28.6
80°	33.3	31.7	29.5	28.3	25.9	25.1	24.3	24.1	23.8	23.6	23.5
82.5°	25.1	23.4	21.3	20.5	19.9	19.4	18.9	18.6	18.5	18.5	18.5
85°	12.7	11.9	11.9	11.6	11.4	11.1	11.0	11.0	10.8	11.0	10.8
87.5°	6.5	6.7	7.0	7.0	7.5	7.8	7.8	8.1	8.5	8.4	8.6
90°	11.4	13.3	14.8	16.4	18.0	19.6	20.8	21.9	23.2	24.3	25.1
92.5°	11.7	12.6	14.1	15.7	17.3	18.9	20.1	21.2	22.5	23.6	24.3
95°	22.0	18.8	19.0	19.2	19.4	19.6	20.8	21.9	23.2	24.3	25.1
97.5°	120.7	111.8	89.7	67.7	45.6	23.5	23.6	23.7	23.9	24.0	24.2
100°	160.2	148.4	121.1	93.8	66.4	39.1	35.8	32.5	29.1	25.7	24.2
102.5°	203.4	203.0	199.4	195.8	192.3	188.7	152.4	116.2	79.9	43.6	25.5
105°	272.7	273.8	274.7	275.7	276.8	277.8	279.6	281.3	283.0	284.8	282.2
107.5°	339.9	340.9	342.2	343.6	344.9	346.3	347.1	348.0	348.9	349.7	350.5
110°	386.9	387.8	389.0	390.2	391.4	392.5	393.0	393.3	393.8	394.1	394.7



TEST NUMBER: P332883-940

CATALOG NUMBER: SA4XXRDIP-C350D1035U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	434.4	435.2	435.8	436.3	436.8	437.4	437.4	437.3	437.2	437.1	437.5
115°	502.7	502.8	502.7	502.5	502.2	502.0	502.5	502.8	503.3	503.6	503.8
117.5°	566.7	567.2	567.7	568.1	568.6	569.0	568.9	568.8	568.7	568.6	568.6
120°	609.4	609.7	609.5	609.3	609.0	608.9	609.3	609.7	610.0	610.5	610.5
122.5°	648.0	648.4	648.6	648.9	649.2	649.4	649.7	650.0	650.1	650.4	650.3
125°	706.4	706.6	706.2	705.8	705.4	705.0	705.6	706.2	706.8	707.4	707.8
127.5°	758.1	758.7	759.6	760.5	761.4	762.3	762.2	762.1	762.0	761.9	761.7
130°	793.0	793.4	794.1	794.6	795.2	795.9	796.0	796.2	796.4	796.6	796.7
132.5°	825.7	826.3	827.1	827.8	828.5	829.3	829.5	829.6	829.9	830.1	830.1
135°	871.6	871.8	872.6	873.4	874.2	875.0	875.4	875.8	876.2	876.6	877.0
137.5°	915.3	915.7	916.6	917.5	918.3	919.2	919.6	920.1	920.5	921.0	921.0
140°	944.2	944.7	945.0	945.5	945.8	946.3	946.8	947.4	948.1	948.6	949.0
142.5°	970.4	970.9	971.2	971.4	971.6	971.9	972.3	972.8	973.2	973.7	973.8
145°	1008.3	1008.5	1008.5	1008.5	1008.5	1008.5	1008.8	1009.0	1009.1	1009.3	1009.7
147.5°	1040.8	1041.3	1041.0	1040.8	1040.6	1040.4	1040.6	1040.7	1040.9	1041.1	1041.3
150°	1061.6	1061.8	1061.7	1061.5	1061.3	1061.0	1061.0	1061.0	1061.0	1061.0	1061.1
152.5°	1079.4	1079.6	1079.2	1078.9	1078.5	1078.2	1078.5	1078.8	1079.1	1079.4	1079.5
155°	1103.7	1103.5	1103.0	1102.3	1101.7	1101.2	1101.9	1102.7	1103.5	1104.3	1104.4
157.5°	1124.4	1123.9	1123.3	1122.6	1122.0	1121.2	1122.3	1123.3	1124.4	1125.3	1125.3
160°	1135.2	1134.9	1134.7	1134.4	1134.3	1134.1	1135.2	1136.5	1137.6	1138.8	1138.8
162.5°	1146.0	1145.6	1145.3	1145.1	1145.0	1144.8	1145.9	1147.1	1148.3	1149.5	1149.4
165°	1159.5	1159.0	1159.0	1159.0	1159.0	1159.0	1160.6	1162.2	1163.8	1165.3	1165.2
167.5°	1170.7	1170.2	1170.0	1169.9	1169.8	1169.7	1171.4	1173.1	1174.9	1176.6	1176.5
170°	1176.5	1176.0	1176.2	1176.4	1176.6	1176.8	1178.4	1180.0	1181.5	1183.1	1182.9
172.5°	1180.8	1180.3	1180.4	1180.7	1180.9	1181.1	1182.7	1184.3	1185.8	1187.4	1187.1
175°	1185.4	1184.9	1185.1	1185.4	1185.5	1185.7	1187.5	1189.3	1191.1	1192.8	1192.5
177.5°	1187.8	1187.5	1187.8	1188.1	1188.4	1188.7	1190.0	1191.2	1192.5	1193.8	1193.5
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



TEST NUMBER: P332883-940

CATALOG NUMBER: SA4XXRDIP-C350D1035U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	500.0	500.3	499.2	498.8	499.2	500.3	500.0	501.0	501.1	502.6	502.0
5°	463.9	463.4	462.4	462.6	462.4	463.4	463.9	465.6	466.4	469.8	469.3
7.5°	432.9	431.3	431.8	430.1	431.8	431.3	432.9	434.4	437.0	438.5	442.2
10°	414.0	411.7	409.8	408.1	409.8	411.7	414.0	414.9	418.5	420.2	423.7
12.5°	388.3	386.2	383.7	384.1	383.7	386.2	388.3	391.9	396.5	400.1	405.7
15°	351.6	348.4	343.4	344.0	343.4	348.4	351.6	354.4	359.0	367.0	370.8
17.5°	320.6	320.6	318.3	318.9	318.3	320.6	320.6	324.3	326.7	331.8	337.6
20°	304.5	303.1	303.3	302.6	303.3	303.1	304.5	309.0	311.5	315.0	321.4
22.5°	293.4	291.6	290.1	288.8	290.1	291.6	293.4	294.6	298.0	301.4	306.6
25°	274.6	273.3	271.4	271.0	271.4	273.3	274.6	276.4	278.1	282.6	285.7
27.5°	258.0	257.8	257.0	256.0	257.0	257.8	258.0	259.7	261.9	264.7	268.8
30°	248.4	248.0	247.5	246.9	247.5	248.0	248.4	250.1	251.7	254.0	257.3
32.5°	239.8	239.5	239.1	239.2	239.1	239.5	239.8	240.6	241.7	244.6	247.1
35°	227.5	227.3	226.9	226.7	226.9	227.3	227.5	228.4	229.0	229.8	231.9
37.5°	216.1	216.6	216.3	216.2	216.3	216.6	216.1	216.2	215.5	217.0	218.5
40°	208.1	208.3	208.7	208.5	208.7	208.3	208.1	208.3	208.3	208.3	209.6
42.5°	201.5	201.5	202.2	201.4	202.2	201.5	201.5	200.7	199.7	199.8	200.3
45°	189.8	191.0	190.7	190.7	190.7	191.0	189.8	188.2	188.1	187.2	187.2
47.5°	176.8	178.0	178.3	178.2	178.3	178.0	176.8	176.3	175.3	174.5	174.4
50°	168.4	168.0	168.6	168.4	168.6	168.0	168.4	167.4	165.9	165.9	165.4
52.5°	158.1	158.2	158.2	157.9	158.2	158.2	158.1	157.6	156.9	156.2	156.0
55°	142.2	142.5	142.0	142.2	142.0	142.5	142.2	142.0	142.0	141.6	142.0
57.5°	125.0	124.0	124.4	123.9	124.4	124.0	125.0	125.9	126.3	126.4	127.0
60°	112.7	111.0	110.6	109.8	110.6	111.0	112.7	114.8	115.7	116.1	116.7
62.5°	98.9	97.6	96.2	96.9	96.2	97.6	98.9	101.1	103.0	104.4	105.9
65°	80.4	79.5	78.9	79.8	78.9	79.5	80.4	82.1	83.8	87.1	90.3
67.5°	66.5	66.1	66.1	65.7	66.1	66.1	66.5	67.4	68.5	70.4	73.3
70°	59.3	58.7	58.7	58.2	58.7	58.7	59.3	59.3	60.4	61.2	63.3
72.5°	51.9	51.3	51.5	51.2	51.5	51.3	51.9	52.1	53.1	53.4	54.4
75°	38.4	37.4	37.4	37.5	37.4	37.4	38.4	39.7	40.8	42.6	43.1
77.5°	28.6	28.4	28.7	28.4	28.7	28.4	28.6	28.6	28.9	29.8	30.5
80°	23.5	23.2	23.0	23.6	23.0	23.2	23.5	23.5	23.6	23.8	24.1
82.5°	18.2	18.2	18.1	18.9	18.1	18.2	18.2	18.5	18.5	18.5	18.6
85°	11.0	10.5	11.0	10.5	11.0	10.5	11.0	10.8	11.0	10.8	11.0
87.5°	9.0	8.9	8.8	9.1	8.8	8.9	9.0	8.6	8.4	8.5	8.1
90°	25.5	25.9	26.3	26.7	26.3	25.9	25.5	25.1	24.3	23.2	21.9
92.5°	24.3	24.4	24.5	24.6	24.5	24.4	24.3	24.3	23.6	22.5	21.2
95°	25.2	25.4	25.6	25.8	25.6	25.4	25.2	25.1	24.3	23.2	21.9
97.5°	24.3	24.5	24.7	25.0	24.7	24.5	24.3	24.2	24.0	23.9	23.7
100°	24.3	24.5	24.7	25.0	24.7	24.5	24.3	24.2	25.7	29.1	32.5
102.5°	25.5	25.6	25.6	25.7	25.6	25.6	25.5	25.5	43.6	79.9	116.2
105°	275.1	268.0	260.8	253.7	260.8	268.0	275.1	282.2	284.8	283.0	281.3
107.5°	351.3	352.0	352.8	353.6	352.8	352.0	351.3	350.5	349.7	348.9	348.0
110°	395.2	395.8	396.5	397.0	396.5	395.8	395.2	394.7	394.1	393.8	393.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	438.2	439.0	439.7	440.4	439.7	439.0	438.2	437.5	437.1	437.2	437.3
115°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.6	503.3	502.8
117.5°	568.6	568.5	568.4	568.3	568.4	568.5	568.6	568.6	568.6	568.7	568.8
120°	610.0	609.7	609.3	608.9	609.3	609.7	610.0	610.5	610.5	610.0	609.7
122.5°	650.0	649.5	649.2	648.7	649.2	649.5	650.0	650.3	650.4	650.1	650.0
125°	708.0	708.2	708.4	708.6	708.4	708.2	708.0	707.8	707.4	706.8	706.2
127.5°	761.6	761.4	761.3	761.1	761.3	761.4	761.6	761.7	761.9	762.0	762.1
130°	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.6	796.4	796.2
132.5°	829.9	829.7	829.6	829.5	829.6	829.7	829.9	830.1	830.1	829.9	829.6
135°	877.4	877.8	878.2	878.6	878.2	877.8	877.4	877.0	876.6	876.2	875.8
137.5°	921.0	920.9	920.7	920.6	920.7	920.9	921.0	921.0	921.0	920.5	920.1
140°	949.2	949.4	949.6	949.9	949.6	949.4	949.2	949.0	948.6	948.1	947.4
142.5°	973.9	973.9	974.0	974.0	974.0	973.9	973.9	973.8	973.7	973.2	972.8
145°	1010.0	1010.4	1010.8	1011.2	1010.8	1010.4	1010.0	1009.7	1009.3	1009.1	1009.0
147.5°	1041.4	1041.6	1041.9	1042.1	1041.9	1041.6	1041.4	1041.3	1041.1	1040.9	1040.7
150°	1061.4	1061.6	1061.8	1061.9	1061.8	1061.6	1061.4	1061.1	1061.0	1061.0	1061.0
152.5°	1079.4	1079.3	1079.1	1079.1	1079.1	1079.3	1079.4	1079.5	1079.4	1079.1	1078.8
155°	1103.8	1103.2	1102.6	1102.1	1102.6	1103.2	1103.8	1104.4	1104.3	1103.5	1102.7
157.5°	1124.4	1123.3	1122.3	1121.2	1122.3	1123.3	1124.4	1125.3	1125.3	1124.4	1123.3
160°	1137.6	1136.5	1135.2	1134.1	1135.2	1136.5	1137.6	1138.8	1138.8	1137.6	1136.5
162.5°	1148.1	1146.7	1145.4	1144.1	1145.4	1146.7	1148.1	1149.4	1149.5	1148.3	1147.1
165°	1163.4	1161.6	1159.8	1158.1	1159.8	1161.6	1163.4	1165.2	1165.3	1163.8	1162.2
167.5°	1174.6	1172.6	1170.5	1168.6	1170.5	1172.6	1174.6	1176.5	1176.6	1174.9	1173.1
170°	1181.0	1179.0	1177.0	1175.0	1177.0	1179.0	1181.0	1182.9	1183.1	1181.5	1180.0
172.5°	1185.0	1182.9	1180.7	1178.6	1180.7	1182.9	1185.0	1187.1	1187.4	1185.8	1184.3
175°	1190.2	1187.8	1185.4	1183.0	1185.4	1187.8	1190.2	1192.5	1192.8	1191.1	1189.3
177.5°	1191.6	1189.7	1187.8	1185.9	1187.8	1189.7	1191.6	1193.5	1193.8	1192.5	1191.2
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	501.0	502.2	504.9	507.9	510.5	512.6	514.3	516.7	518.9	521.9	524.8
5°	470.6	473.6	477.8	482.9	489.2	493.4	498.6	503.4	510.1	516.8	523.3
7.5°	444.0	447.2	453.4	460.4	467.9	474.8	481.1	489.3	498.2	508.1	519.1
10°	426.7	430.3	437.7	445.7	454.6	461.4	469.8	479.5	489.6	501.7	515.1
12.5°	411.2	414.6	423.5	431.7	440.9	448.4	458.2	468.0	481.5	494.5	509.9
15°	380.9	390.0	400.1	409.8	420.8	429.9	441.7	451.8	464.7	483.0	500.6
17.5°	347.3	357.0	369.6	384.6	399.3	410.5	422.5	435.1	450.4	469.1	489.4
20°	327.7	335.6	349.5	366.1	383.3	398.9	409.8	423.7	439.6	459.9	480.7
22.5°	313.1	319.7	330.6	347.2	365.7	383.8	397.9	411.6	429.1	449.4	472.2
25°	291.1	298.2	307.7	319.1	340.2	359.4	377.7	393.6	412.1	432.4	457.7
27.5°	272.7	278.9	287.7	299.5	313.7	334.8	357.1	375.1	394.2	416.0	441.3
30°	261.9	267.0	274.1	286.1	299.7	318.7	341.3	362.4	381.6	404.1	430.5
32.5°	250.6	256.0	263.0	272.5	287.0	303.0	325.6	348.7	369.1	392.2	418.0
35°	235.5	239.8	246.1	255.7	268.9	282.8	302.8	326.7	348.2	372.9	397.6
37.5°	220.3	225.2	230.2	238.9	249.6	264.6	281.0	305.4	329.2	351.8	375.9
40°	211.7	214.6	220.1	227.1	238.4	251.7	267.2	291.1	314.9	337.2	361.5
42.5°	202.1	205.4	210.0	217.0	227.1	240.1	255.2	275.8	300.7	322.4	344.5
45°	188.7	190.6	195.2	201.1	209.6	222.7	236.6	254.9	278.4	299.1	318.4
47.5°	175.1	176.8	179.7	185.1	194.6	205.1	218.1	234.6	255.1	275.8	292.2
50°	165.9	167.4	170.1	175.1	183.6	193.9	206.8	221.6	240.0	259.8	273.5
52.5°	156.6	157.4	160.0	165.7	172.8	183.0	194.5	208.1	225.2	241.7	255.7
55°	141.8	143.7	145.4	149.6	156.4	166.1	176.5	189.3	202.6	216.5	228.4
57.5°	126.4	128.5	130.9	134.6	140.0	149.0	158.3	168.7	180.1	191.6	201.6
60°	116.3	118.2	120.3	124.5	129.4	136.5	146.7	155.8	164.4	175.0	184.9
62.5°	106.3	108.3	110.7	114.0	118.7	125.6	134.0	141.9	150.9	160.1	167.5
65°	91.6	93.1	95.0	98.2	102.5	108.7	115.7	121.8	129.8	136.5	143.3
67.5°	75.4	78.3	80.7	83.3	87.0	92.7	97.8	103.7	109.1	114.1	120.3
70°	64.8	67.9	70.3	73.0	76.6	81.5	86.3	90.3	94.8	99.6	105.1
72.5°	55.8	58.3	60.2	63.0	66.3	70.8	75.3	78.6	82.3	85.6	91.0
75°	44.1	45.1	46.5	48.8	51.7	55.1	58.7	61.6	63.8	66.7	70.4
77.5°	31.7	33.7	34.6	36.2	38.3	40.4	42.8	45.3	47.3	48.3	51.3
80°	24.3	25.1	25.9	28.3	29.5	31.7	33.3	35.7	36.5	37.5	40.3
82.5°	18.9	19.4	19.9	20.5	21.3	23.4	25.1	26.6	27.4	27.7	29.9
85°	11.0	11.1	11.4	11.6	11.9	11.9	12.7	13.7	15.2	15.2	15.9
87.5°	7.8	7.8	7.5	7.0	7.0	6.7	6.5	6.1	6.2	6.2	6.2
90°	20.8	19.6	18.0	16.4	14.8	13.3	11.4	9.2	7.0	4.8	2.7
92.5°	20.1	18.9	17.3	15.7	14.1	12.6	11.7	11.6	11.4	11.3	11.2
95°	20.8	19.6	19.4	19.2	19.0	18.8	22.0	28.8	35.5	42.3	49.0
97.5°	23.6	23.5	45.6	67.7	89.7	111.8	120.7	116.5	112.4	108.2	104.0
100°	35.8	39.1	66.4	93.8	121.1	148.4	160.2	156.7	153.1	149.5	146.0
102.5°	152.4	188.7	192.3	195.8	199.4	203.0	203.4	200.8	198.2	195.6	193.0
105°	279.6	277.8	276.8	275.7	274.7	273.8	272.7	271.5	270.3	269.1	268.0
107.5°	347.1	346.3	344.9	343.6	342.2	340.9	339.9	339.3	338.8	338.1	337.5
110°	393.0	392.5	391.4	390.2	389.0	387.8	386.9	386.3	385.8	385.1	384.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	437.4	437.4	436.8	436.3	435.8	435.2	434.4	433.4	432.3	431.2	430.2
115°	502.5	502.0	502.2	502.5	502.7	502.8	502.7	502.0	501.5	500.9	500.2
117.5°	568.9	569.0	568.6	568.1	567.7	567.2	566.7	565.9	565.1	564.3	563.5
120°	609.3	608.9	609.0	609.3	609.5	609.7	609.4	608.6	607.8	607.0	606.2
122.5°	649.7	649.4	649.2	648.9	648.6	648.4	648.0	647.5	647.0	646.6	646.0
125°	705.6	705.0	705.4	705.8	706.2	706.6	706.4	705.6	704.8	704.0	703.2
127.5°	762.2	762.3	761.4	760.5	759.6	758.7	758.1	758.0	757.8	757.5	757.3
130°	796.0	795.9	795.2	794.6	794.1	793.4	793.0	792.8	792.6	792.5	792.3
132.5°	829.5	829.3	828.5	827.8	827.1	826.3	825.7	825.4	825.0	824.7	824.3
135°	875.4	875.0	874.2	873.4	872.6	871.8	871.6	871.7	872.0	872.2	872.4
137.5°	919.6	919.2	918.3	917.5	916.6	915.7	915.3	915.2	915.1	915.0	914.9
140°	946.8	946.3	945.8	945.5	945.0	944.7	944.2	943.9	943.5	943.1	942.7
142.5°	972.3	971.9	971.6	971.4	971.2	970.9	970.4	969.7	969.0	968.3	967.6
145°	1008.8	1008.5	1008.5	1008.5	1008.5	1008.5	1008.3	1007.6	1007.1	1006.5	1005.8
147.5°	1040.6	1040.4	1040.6	1040.8	1041.0	1041.3	1040.8	1039.6	1038.6	1037.4	1036.3
150°	1061.0	1061.0	1061.3	1061.5	1061.7	1061.8	1061.6	1060.8	1060.0	1059.2	1058.4
152.5°	1078.5	1078.2	1078.5	1078.9	1079.2	1079.6	1079.4	1078.8	1078.2	1077.5	1076.9
155°	1101.9	1101.2	1101.7	1102.3	1103.0	1103.5	1103.7	1103.5	1103.3	1103.1	1103.0
157.5°	1122.3	1121.2	1122.0	1122.6	1123.3	1123.9	1124.4	1124.4	1124.5	1124.7	1124.8
160°	1135.2	1134.1	1134.3	1134.4	1134.7	1134.9	1135.2	1135.9	1136.5	1137.0	1137.6
162.5°	1145.9	1144.8	1145.0	1145.1	1145.3	1145.6	1146.0	1146.7	1147.5	1148.3	1149.1
165°	1160.6	1159.0	1159.0	1159.0	1159.0	1159.0	1159.5	1160.5	1161.5	1162.4	1163.4
167.5°	1171.4	1169.7	1169.8	1169.9	1170.0	1170.2	1170.7	1171.8	1172.8	1173.8	1174.8
170°	1178.4	1176.8	1176.6	1176.4	1176.2	1176.0	1176.5	1177.7	1178.8	1180.1	1181.2
172.5°	1182.7	1181.1	1180.9	1180.7	1180.4	1180.3	1180.8	1182.0	1183.1	1184.4	1185.5
175°	1187.5	1185.7	1185.5	1185.4	1185.1	1184.9	1185.4	1186.6	1187.8	1189.0	1190.2
177.5°	1190.0	1188.7	1188.4	1188.1	1187.8	1187.5	1187.8	1189.0	1190.1	1191.1	1192.3
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	527.0	528.5	530.2	533.4	536.1	537.3	539.7	541.4	540.8	543.2	547.2
5°	529.1	534.8	541.4	548.0	555.6	562.0	567.0	572.1	576.1	580.9	588.2
7.5°	528.7	538.9	549.9	562.0	574.4	585.2	595.1	605.3	614.3	624.1	637.0
10°	527.4	540.9	554.6	570.4	586.3	601.3	614.7	627.4	639.4	652.3	668.6
12.5°	525.8	541.4	557.9	577.0	596.7	614.7	630.6	648.9	664.0	680.6	699.3
15°	519.2	540.0	562.7	587.3	611.0	635.3	656.9	679.3	700.3	720.1	743.7
17.5°	511.5	535.6	562.2	591.4	619.7	649.3	675.1	703.3	724.6	751.3	773.2
20°	505.2	531.2	559.6	592.4	624.6	657.4	685.9	714.6	738.6	765.4	793.3
22.5°	497.7	526.1	557.0	590.8	624.6	660.4	692.0	720.5	750.3	780.4	809.1
25°	485.4	515.0	547.7	584.8	623.7	660.1	693.9	729.3	761.4	794.2	819.9
27.5°	470.4	501.4	535.8	574.2	614.0	651.4	691.2	729.0	761.3	792.7	815.2
30°	458.3	491.1	524.2	563.0	604.4	644.5	687.2	725.0	758.9	787.2	799.9
32.5°	446.0	477.1	511.2	550.5	592.9	636.1	678.3	717.0	748.4	765.4	765.7
35°	424.6	453.7	489.2	527.8	571.3	618.1	660.9	698.9	718.2	719.6	698.9
37.5°	401.3	427.9	461.4	500.1	547.7	594.3	638.0	663.3	669.8	648.3	610.1
40°	384.5	409.2	441.5	481.2	528.4	576.6	616.4	635.0	628.3	593.4	550.8
42.5°	366.9	389.9	421.1	460.2	507.7	556.3	590.3	600.2	582.4	542.2	492.2
45°	338.3	359.4	390.2	429.7	475.3	520.8	546.6	541.5	511.8	464.0	408.1
47.5°	308.4	328.9	356.6	393.1	439.8	479.1	496.5	481.3	438.9	386.5	341.0
50°	288.7	309.6	335.1	370.0	412.6	450.6	461.7	438.5	391.5	341.1	299.3
52.5°	269.3	287.1	312.2	345.8	386.6	418.7	424.6	397.9	349.3	304.1	267.0
55°	239.8	256.0	277.1	308.7	344.0	371.2	368.0	333.7	289.5	250.9	221.8
57.5°	211.2	223.4	242.9	272.6	303.5	321.8	310.2	280.9	239.8	208.1	183.6
60°	192.3	203.7	221.8	247.7	275.0	285.3	275.6	243.8	211.2	182.4	161.7
62.5°	174.3	184.4	200.0	224.1	246.1	252.3	241.8	214.0	184.8	160.1	142.9
65°	148.4	157.7	170.9	188.1	203.2	206.2	199.5	170.9	148.8	128.1	116.3
67.5°	124.8	130.8	141.2	156.0	164.1	165.8	152.8	134.8	115.3	102.6	93.7
70°	108.9	113.2	122.8	130.8	137.4	137.6	125.6	111.2	96.2	85.9	79.4
72.5°	93.5	97.6	105.0	110.4	115.5	113.8	102.8	91.5	79.4	71.5	66.7
75°	72.1	75.8	79.5	82.1	82.1	80.0	72.0	63.5	56.5	51.9	50.5
77.5°	52.4	55.4	56.7	56.3	55.6	52.3	47.2	41.6	39.1	37.0	35.8
80°	41.2	42.4	42.8	41.8	40.5	36.7	33.3	31.0	28.7	27.8	27.5
82.5°	30.5	31.7	30.5	30.9	28.0	24.9	23.0	22.2	21.3	21.0	20.5
85°	16.2	16.1	15.6	14.5	12.7	12.2	12.0	11.9	11.4	11.6	11.1
87.5°	6.5	6.5	6.2	6.5	6.9	6.9	7.3	7.7	7.9	8.0	8.6
90°	4.8	7.0	9.2	11.4	13.3	14.8	16.4	18.0	19.6	20.8	21.9
92.5°	11.3	11.4	11.6	11.7	12.6	14.1	15.7	17.3	18.9	20.1	21.2
95°	42.3	35.5	28.8	22.0	18.8	19.0	19.2	19.4	19.6	20.8	21.9
97.5°	108.2	112.4	116.5	120.7	111.8	89.7	67.7	45.6	23.5	23.6	23.7
100°	149.5	153.1	156.7	160.2	148.4	121.1	93.8	66.4	39.1	35.8	32.5
102.5°	195.6	198.2	200.8	203.4	203.0	199.4	195.8	192.3	188.7	152.4	116.2
105°	269.1	270.3	271.5	272.7	273.8	274.7	275.7	276.8	277.8	279.6	281.3
107.5°	338.1	338.8	339.3	339.9	340.9	342.2	343.6	344.9	346.3	347.1	348.0
110°	385.1	385.8	386.3	386.9	387.8	389.0	390.2	391.4	392.5	393.0	393.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	431.2	432.3	433.4	434.4	435.2	435.8	436.3	436.8	437.4	437.4	437.3
115°	500.9	501.5	502.0	502.7	502.8	502.7	502.5	502.2	502.0	502.5	502.8
117.5°	564.3	565.1	565.9	566.7	567.2	567.7	568.1	568.6	569.0	568.9	568.8
120°	607.0	607.8	608.6	609.4	609.7	609.5	609.3	609.0	608.9	609.3	609.7
122.5°	646.6	647.0	647.5	648.0	648.4	648.6	648.9	649.2	649.4	649.7	650.0
125°	704.0	704.8	705.6	706.4	706.6	706.2	705.8	705.4	705.0	705.6	706.2
127.5°	757.5	757.8	758.0	758.1	758.7	759.6	760.5	761.4	762.3	762.2	762.1
130°	792.5	792.6	792.8	793.0	793.4	794.1	794.6	795.2	795.9	796.0	796.2
132.5°	824.7	825.0	825.4	825.7	826.3	827.1	827.8	828.5	829.3	829.5	829.6
135°	872.2	872.0	871.7	871.6	871.8	872.6	873.4	874.2	875.0	875.4	875.8
137.5°	915.0	915.1	915.2	915.3	915.7	916.6	917.5	918.3	919.2	919.6	920.1
140°	943.1	943.5	943.9	944.2	944.7	945.0	945.5	945.8	946.3	946.8	947.4
142.5°	968.3	969.0	969.7	970.4	970.9	971.2	971.4	971.6	971.9	972.3	972.8
145°	1006.5	1007.1	1007.6	1008.3	1008.5	1008.5	1008.5	1008.5	1008.5	1008.8	1009.0
147.5°	1037.4	1038.6	1039.6	1040.8	1041.3	1041.0	1040.8	1040.6	1040.4	1040.6	1040.7
150°	1059.2	1060.0	1060.8	1061.6	1061.8	1061.7	1061.5	1061.3	1061.0	1061.0	1061.0
152.5°	1077.5	1078.2	1078.8	1079.4	1079.6	1079.2	1078.9	1078.5	1078.2	1078.5	1078.8
155°	1103.1	1103.3	1103.5	1103.7	1103.5	1103.0	1102.3	1101.7	1101.2	1101.9	1102.7
157.5°	1124.7	1124.5	1124.4	1124.4	1123.9	1123.3	1122.6	1122.0	1121.2	1122.3	1123.3
160°	1137.0	1136.5	1135.9	1135.2	1134.9	1134.7	1134.4	1134.3	1134.1	1135.2	1136.5
162.5°	1148.3	1147.5	1146.7	1146.0	1145.6	1145.3	1145.1	1145.0	1144.8	1145.9	1147.1
165°	1162.4	1161.5	1160.5	1159.5	1159.0	1159.0	1159.0	1159.0	1159.0	1160.6	1162.2
167.5°	1173.8	1172.8	1171.8	1170.7	1170.2	1170.0	1169.9	1169.8	1169.7	1171.4	1173.1
170°	1180.1	1178.8	1177.7	1176.5	1176.0	1176.2	1176.4	1176.6	1176.8	1178.4	1180.0
172.5°	1184.4	1183.1	1182.0	1180.8	1180.3	1180.4	1180.7	1180.9	1181.1	1182.7	1184.3
175°	1189.0	1187.8	1186.6	1185.4	1184.9	1185.1	1185.4	1185.5	1185.7	1187.5	1189.3
177.5°	1191.1	1190.1	1189.0	1187.8	1187.5	1187.8	1188.1	1188.4	1188.7	1190.0	1191.2
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	549.5	550.1	550.6	552.3	552.5	554.0	552.5
5°	594.9	597.9	602.5	607.2	607.6	610.6	605.3
7.5°	645.9	652.7	657.0	664.5	667.4	669.3	666.3
10°	681.0	687.3	698.6	704.0	709.5	710.3	707.8
12.5°	715.0	725.0	733.8	744.2	744.0	751.4	748.7
15°	760.2	770.5	782.7	794.3	798.5	798.5	801.9
17.5°	792.4	811.4	824.0	833.1	843.1	844.8	843.6
20°	814.2	834.6	848.2	860.0	866.7	868.6	868.6
22.5°	830.4	847.8	861.0	871.6	877.2	879.4	878.8
25°	841.6	856.6	864.6	867.8	869.2	868.9	864.9
27.5°	826.3	825.5	820.6	810.8	803.5	799.1	794.0
30°	796.9	785.9	773.2	759.3	741.4	727.6	723.4
32.5°	753.1	728.5	707.0	683.9	664.6	650.9	645.1
35°	668.6	629.5	597.6	569.8	549.6	536.9	532.6
37.5°	568.2	530.4	491.0	464.0	447.1	434.4	429.6
40°	504.4	463.2	428.8	403.5	386.2	373.7	373.5
42.5°	446.1	406.8	374.4	356.2	337.6	329.3	329.3
45°	365.3	333.9	306.4	292.0	280.9	274.1	272.2
47.5°	302.5	276.4	258.2	246.7	237.6	233.4	230.5
50°	267.2	244.4	229.8	219.9	214.8	209.4	208.9
52.5°	237.8	219.4	208.0	200.0	193.6	190.3	190.4
55°	199.8	185.3	177.3	171.1	166.1	163.5	162.5
57.5°	168.4	157.5	151.6	146.0	143.8	141.9	141.3
60°	148.8	141.4	135.9	131.4	128.3	127.7	127.4
62.5°	132.6	124.8	121.1	117.6	115.3	114.3	114.0
65°	109.3	103.6	100.2	97.5	96.7	95.1	95.0
67.5°	88.1	84.7	82.5	80.6	79.5	79.4	79.4
70°	75.2	73.2	71.3	70.3	69.6	69.2	69.2
72.5°	64.0	62.6	61.0	60.5	60.4	59.9	59.7
75°	48.8	47.3	47.5	46.5	45.6	44.5	43.9
77.5°	34.6	33.5	33.3	33.2	32.5	32.4	32.6
80°	26.8	25.8	25.5	25.8	25.5	24.9	24.9
82.5°	20.4	19.5	19.3	19.2	19.0	19.2	18.8
85°	11.0	10.5	10.5	10.5	11.0	10.8	10.5
87.5°	8.5	8.6	8.9	8.8	8.9	8.8	9.1
90°	23.2	24.3	25.1	25.5	25.9	26.3	26.7
92.5°	22.5	23.6	24.3	24.3	24.4	24.5	24.6
95°	23.2	24.3	25.1	25.2	25.4	25.6	25.8
97.5°	23.9	24.0	24.2	24.3	24.5	24.7	25.0
100°	29.1	25.7	24.2	24.3	24.5	24.7	25.0
102.5°	79.9	43.6	25.5	25.5	25.6	25.6	25.7
105°	283.0	284.8	282.2	275.1	268.0	260.8	253.7
107.5°	348.9	349.7	350.5	351.3	352.0	352.8	353.6
110°	393.8	394.1	394.7	395.2	395.8	396.5	397.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	437.2	437.1	437.5	438.2	439.0	439.7	440.4
115°	503.3	503.6	503.8	503.8	503.8	503.8	503.8
117.5°	568.7	568.6	568.6	568.6	568.5	568.4	568.3
120°	610.0	610.5	610.5	610.0	609.7	609.3	608.9
122.5°	650.1	650.4	650.3	650.0	649.5	649.2	648.7
125°	706.8	707.4	707.8	708.0	708.2	708.4	708.6
127.5°	762.0	761.9	761.7	761.6	761.4	761.3	761.1
130°	796.4	796.6	796.7	796.7	796.7	796.7	796.7
132.5°	829.9	830.1	830.1	829.9	829.7	829.6	829.5
135°	876.2	876.6	877.0	877.4	877.8	878.2	878.6
137.5°	920.5	921.0	921.0	921.0	920.9	920.7	920.6
140°	948.1	948.6	949.0	949.2	949.4	949.6	949.9
142.5°	973.2	973.7	973.8	973.9	973.9	974.0	974.0
145°	1009.1	1009.3	1009.7	1010.0	1010.4	1010.8	1011.2
147.5°	1040.9	1041.1	1041.3	1041.4	1041.6	1041.9	1042.1
150°	1061.0	1061.0	1061.1	1061.4	1061.6	1061.8	1061.9
152.5°	1079.1	1079.4	1079.5	1079.4	1079.3	1079.1	1079.1
155°	1103.5	1104.3	1104.4	1103.8	1103.2	1102.6	1102.1
157.5°	1124.4	1125.3	1125.3	1124.4	1123.3	1122.3	1121.2
160°	1137.6	1138.8	1138.8	1137.6	1136.5	1135.2	1134.1
162.5°	1148.3	1149.5	1149.4	1148.1	1146.7	1145.4	1144.1
165°	1163.8	1165.3	1165.2	1163.4	1161.6	1159.8	1158.1
167.5°	1174.9	1176.6	1176.5	1174.6	1172.6	1170.5	1168.6
170°	1181.5	1183.1	1182.9	1181.0	1179.0	1177.0	1175.0
172.5°	1185.8	1187.4	1187.1	1185.0	1182.9	1180.7	1178.6
175°	1191.1	1192.8	1192.5	1190.2	1187.8	1185.4	1183.0
177.5°	1192.5	1193.8	1193.5	1191.6	1189.7	1187.8	1185.9
180°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2

(END OF REPORT)