

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332103-840

Luminaire Tested: **S123DIW-S340D1030U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332103-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S340D1030U840-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5078.0 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

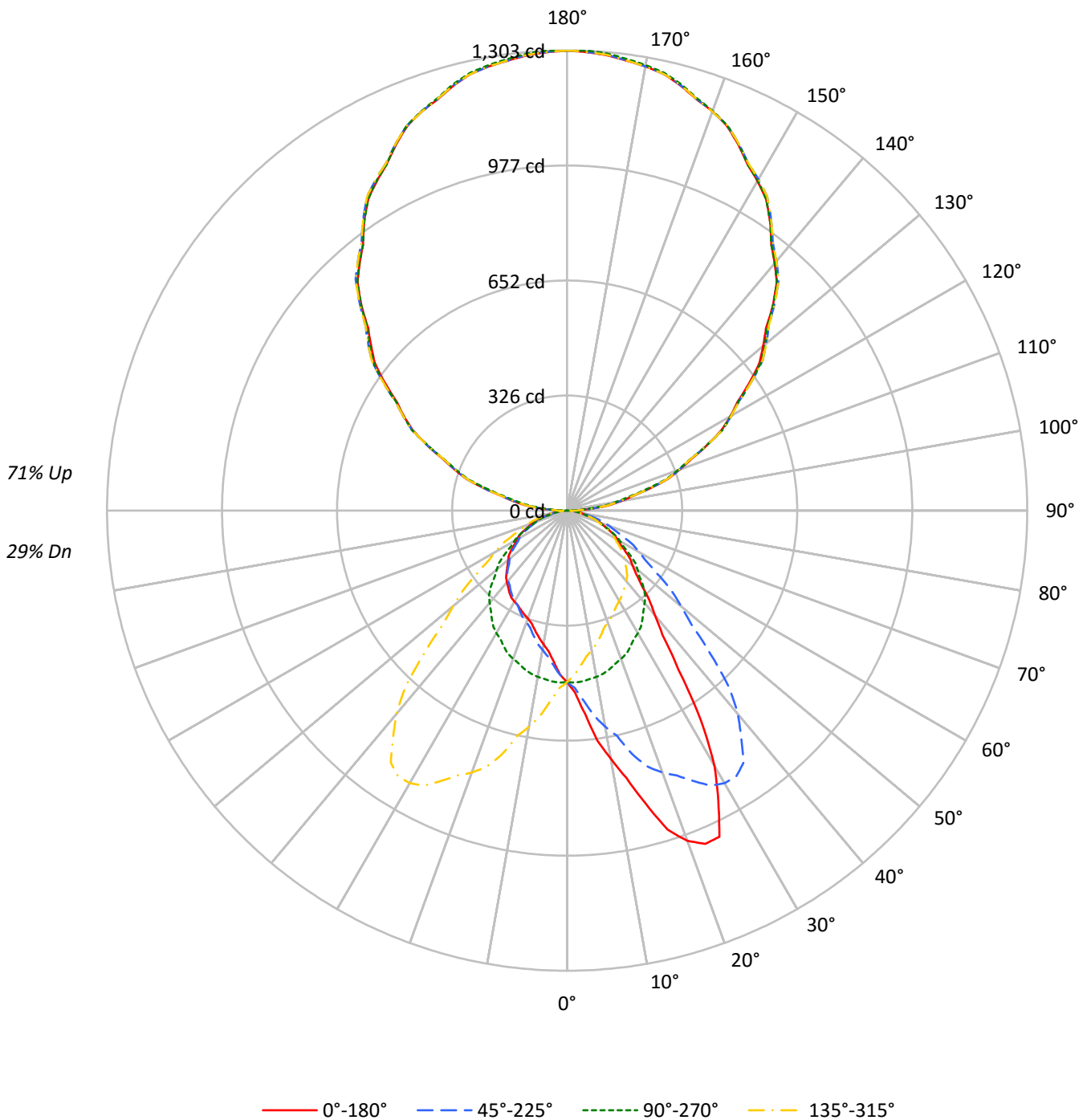
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5226	5226	5226	5226
5°	6232	5249	4652	5249
10°	7802	5223	4203	5223
15°	9569	5180	3911	5180
20°	11399	5116	3725	5116
25°	12105	5035	3682	5035
30°	10376	4977	3701	4977
35°	7215	4893	3741	4893
40°	5435	4796	3729	4796
45°	4512	4652	3682	4652
50°	4042	4357	3647	4357
55°	3780	4040	3603	4040
60°	3546	3707	3565	3707
65°	3331	3380	3451	3380
70°	3125	3006	3286	3006
75°	2799	2633	3015	2633
80°	2448	2157	2597	2157
85°	1927	1568	1741	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	0.9
10°-20°	153.4	3.0
20°-30°	257.4	5.1
30°-40°	291.5	5.7
40°-50°	261.4	5.1
50°-60°	210.9	4.2
60°-70°	147.0	2.9
70°-80°	77.3	1.5
80°-90°	22.7	0.4
90°-100°	84.9	1.7
100°-110°	254.0	5.0
110°-120°	431.9	8.5
120°-130°	568.1	11.2
130°-140°	638.6	12.6
140°-150°	627.7	12.4
150°-160°	528.4	10.4
160°-170°	351.8	6.9
170°-180°	123.2	2.4
0°-30°	458.6	9.0
0°-40°	750.1	14.8
0°-60°	1222.4	24.1
0°-90°	1469.4	28.9
90°-120°	770.8	15.2
90°-150°	2605.2	51.3
90°-180°	3609.0	71.1
0°-180°	5078.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	486	486	486	486	486	
5°	577	486	430	486	577	60
15°	859	465	351	465	859	248
25°	1019	424	310	424	1019	447
35°	549	372	285	372	549	357
45°	296	306	242	306	296	235
55°	201	215	192	215	201	181
65°	131	133	136	133	131	130
75°	67	63	72	63	67	72
85°	16	13	14	13	16	19
90°	31	1	31	1	31	16
95°	80	60	80	60	80	82
105°	244	230	244	230	244	258
115°	436	435	436	435	436	432
125°	629	636	629	636	629	563
135°	825	826	825	826	825	634
145°	1002	1002	1002	1002	1002	625
155°	1145	1147	1145	1147	1145	527
165°	1245	1249	1245	1249	1245	351
175°	1294	1299	1294	1299	1294	123
180°	1302	1302	1302	1302	1302	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	515.3	514.9	514.0	514.7	513.2	511.2	511.0	509.1	503.6	503.3	501.8
5°	576.8	575.0	574.7	574.5	571.2	566.7	558.3	557.5	546.2	540.7	533.8
7.5°	656.6	657.5	654.1	651.2	641.1	634.4	625.3	613.7	599.9	585.7	576.4
10°	713.8	721.5	712.0	705.3	699.2	687.7	674.3	657.5	640.9	621.4	606.5
12.5°	775.2	778.9	777.0	770.8	761.3	743.8	720.0	701.6	686.2	653.7	640.6
15°	858.7	873.0	863.8	842.7	843.1	826.5	795.5	761.3	743.2	714.7	675.9
17.5°	947.8	949.5	945.6	928.0	916.3	893.2	864.5	831.9	795.2	760.7	719.5
20°	995.1	993.7	985.5	976.3	956.1	938.3	907.0	870.5	823.4	789.5	744.6
22.5°	1021.5	1019.2	1015.2	1007.5	990.8	971.6	943.4	903.6	858.8	812.1	760.2
25°	1019.2	1022.2	1022.7	1020.6	1014.7	1003.2	981.1	949.3	904.6	844.6	790.5
27.5°	927.0	931.3	943.8	955.0	967.5	980.2	978.5	962.7	929.6	877.8	811.6
30°	834.8	825.3	848.6	878.0	898.0	933.3	953.0	954.2	935.6	891.2	826.7
32.5°	706.7	717.1	727.4	763.6	807.3	846.9	886.3	917.9	921.5	891.9	835.6
35°	549.1	562.1	580.9	599.7	646.7	687.2	756.4	816.6	864.5	870.9	836.4
37.5°	442.5	448.9	460.8	479.7	510.4	558.5	611.9	688.0	757.6	809.3	811.5
40°	386.8	388.7	402.0	416.4	441.3	480.9	529.1	596.4	679.6	751.9	782.0
42.5°	345.0	349.1	354.9	368.6	388.5	418.2	463.0	518.7	595.0	678.1	737.0
45°	296.4	301.1	304.7	313.9	328.0	348.0	379.2	430.1	488.2	574.0	653.3
47.5°	264.4	264.7	267.3	274.3	283.9	298.9	321.0	353.7	407.0	476.7	558.1
50°	241.4	245.1	246.1	251.5	259.0	270.0	288.4	316.2	359.9	421.1	495.9
52.5°	225.2	226.3	228.9	232.9	239.4	248.0	264.0	285.7	320.0	372.2	441.0
55°	201.4	201.4	204.0	207.0	210.8	218.5	229.1	245.1	271.2	311.7	368.7
57.5°	179.4	180.6	182.4	183.3	186.5	191.7	200.5	212.7	232.1	263.3	308.5
60°	164.7	166.8	166.5	168.4	171.3	175.3	182.8	192.7	210.1	235.0	273.2
62.5°	151.9	151.8	151.7	154.0	156.7	160.6	165.5	174.0	188.8	211.0	243.4
65°	130.8	130.4	132.0	133.4	134.3	137.1	140.9	148.5	158.3	174.8	200.0
67.5°	112.1	110.7	111.6	112.1	113.7	115.9	119.5	124.1	131.9	145.1	164.1
70°	99.3	98.1	97.9	98.4	99.8	101.4	104.0	108.5	115.7	126.3	140.2
72.5°	86.1	85.3	85.2	86.3	86.9	88.1	89.9	93.9	99.8	107.8	120.7
75°	67.3	67.3	67.3	67.6	68.3	69.2	70.6	72.7	77.2	82.8	91.5
77.5°	50.4	50.4	50.1	50.1	51.1	51.5	51.8	53.8	56.4	60.1	66.4
80°	39.5	38.4	38.8	39.5	40.0	40.2	40.9	41.4	43.5	45.6	50.1
82.5°	29.4	28.4	28.5	29.6	29.7	29.9	30.6	31.2	32.0	33.9	36.4
85°	15.6	15.6	15.8	15.8	16.0	15.8	16.5	16.7	16.7	17.9	19.3
87.5°	11.8	11.3	11.4	11.5	11.2	11.3	11.3	11.3	11.3	11.3	10.9
90°	30.7	30.2	29.8	29.3	28.9	28.2	27.3	26.4	25.4	24.5	21.6
92.5°	41.3	41.6	41.9	42.1	42.4	42.2	41.5	40.7	40.0	39.3	37.6
95°	79.8	79.8	79.8	79.8	79.8	79.4	78.5	77.6	76.6	75.7	73.9
97.5°	122.8	122.9	123.0	123.0	123.1	122.7	121.6	120.6	119.6	118.5	117.1
100°	155.5	155.0	154.6	154.1	153.7	153.1	152.5	151.8	151.1	150.4	149.3
102.5°	189.0	189.1	189.2	189.3	189.5	189.1	188.4	187.7	187.1	186.4	184.9
105°	243.5	243.1	242.6	242.2	241.7	241.5	241.5	241.5	241.5	241.5	239.4
107.5°	300.1	300.4	300.7	301.0	301.2	301.0	300.3	299.6	298.8	298.1	297.3
110°	338.6	339.1	339.5	340.0	340.4	340.2	339.3	338.4	337.5	336.6	336.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	379.6	379.7	379.7	379.8	379.9	379.4	378.3	377.3	376.2	375.1	375.0
115°	435.9	436.1	436.3	436.6	436.8	436.8	436.6	436.3	436.1	435.9	436.3
117.5°	492.9	493.5	494.2	494.8	495.4	495.8	495.8	495.9	495.9	496.0	496.6
120°	533.0	533.5	533.9	534.4	534.8	535.2	535.4	535.6	535.8	536.1	537.2
122.5°	571.5	572.2	572.8	573.4	574.0	574.7	575.2	575.8	576.4	577.0	577.6
125°	629.2	630.2	631.1	632.0	632.9	633.8	634.7	635.6	636.5	637.4	637.8
127.5°	686.7	687.7	688.8	689.8	690.8	692.1	693.4	694.6	695.9	697.1	697.6
130°	724.4	726.0	727.5	729.1	730.7	732.0	732.9	733.8	734.7	735.6	736.3
132.5°	763.7	764.9	766.1	767.3	768.6	769.7	770.8	771.9	773.0	774.1	774.6
135°	824.7	825.1	825.6	826.0	826.5	827.1	828.0	828.9	829.8	830.7	831.0
137.5°	878.5	879.3	880.2	881.0	881.9	882.8	883.7	884.7	885.7	886.7	886.1
140°	913.6	915.2	916.9	918.4	920.0	920.9	921.1	921.4	921.6	921.8	921.6
142.5°	949.7	950.9	952.1	953.3	954.5	955.3	955.5	955.7	955.9	956.2	955.8
145°	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.0	1006.3	1006.5	1006.7	1006.0
147.5°	1047.8	1049.2	1050.6	1052.0	1053.3	1054.0	1054.0	1054.0	1054.0	1054.0	1053.4
150°	1077.3	1078.7	1080.1	1081.5	1082.8	1083.5	1083.5	1083.5	1083.5	1083.5	1083.0
152.5°	1106.0	1107.1	1108.3	1109.5	1110.8	1111.2	1110.8	1110.3	1110.0	1109.6	1109.4
155°	1144.9	1146.5	1148.0	1149.6	1151.2	1151.5	1150.6	1149.7	1148.8	1147.9	1147.7
157.5°	1180.2	1181.5	1182.9	1184.1	1185.4	1185.5	1184.6	1183.6	1182.7	1181.6	1181.5
160°	1203.2	1204.1	1205.0	1205.9	1206.8	1206.7	1205.6	1204.5	1203.3	1202.1	1202.1
162.5°	1220.3	1221.8	1223.2	1224.8	1226.2	1226.4	1225.2	1224.1	1222.9	1221.8	1221.6
165°	1245.2	1246.7	1248.3	1249.9	1251.5	1251.6	1250.2	1248.9	1247.5	1246.2	1246.2
167.5°	1266.2	1267.6	1269.0	1270.4	1271.8	1271.8	1270.4	1269.0	1267.6	1266.2	1266.1
170°	1276.9	1278.4	1280.0	1281.6	1283.2	1283.2	1281.6	1280.0	1278.4	1276.9	1276.9
172.5°	1285.1	1286.6	1288.2	1289.8	1291.4	1291.5	1290.1	1288.7	1287.3	1285.9	1285.9
175°	1294.2	1295.9	1297.4	1299.0	1300.6	1300.7	1299.4	1298.0	1296.7	1295.3	1295.3
177.5°	1299.2	1300.4	1301.7	1302.9	1304.2	1304.3	1303.2	1302.1	1301.0	1300.0	1300.0
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	500.6	499.2	497.7	495.0	492.7	489.6	488.6	487.5	484.0	481.1	478.8
5°	531.2	525.5	517.4	509.8	503.7	495.4	490.8	485.8	478.8	472.4	467.3
7.5°	563.2	552.1	539.3	525.5	512.6	500.2	490.2	481.2	471.3	462.0	454.6
10°	588.7	572.6	554.7	535.4	519.0	503.0	489.6	477.9	465.1	454.0	444.8
12.5°	617.6	593.9	569.3	545.8	526.3	504.1	487.9	472.9	458.5	445.2	434.9
15°	651.9	621.8	592.6	560.4	530.8	503.0	483.7	464.8	448.2	434.5	421.3
17.5°	683.2	649.0	610.6	571.4	535.6	502.7	475.7	454.4	433.5	416.9	403.7
20°	700.8	662.1	618.5	577.8	538.3	501.6	471.9	446.6	423.9	406.3	391.5
22.5°	716.1	670.7	625.6	582.1	538.1	498.6	464.9	438.8	414.3	397.1	381.3
25°	732.0	677.5	632.4	581.4	532.2	491.2	453.6	423.9	399.5	379.2	363.0
27.5°	745.5	677.1	623.5	568.6	522.8	481.8	441.6	409.8	383.8	361.8	345.4
30°	754.5	678.0	614.3	560.0	513.8	471.5	432.4	400.4	373.1	350.8	335.3
32.5°	760.1	677.4	605.8	547.9	499.5	462.0	422.4	389.3	361.2	339.3	324.4
35°	763.5	673.3	591.2	523.0	476.5	439.9	406.8	372.4	343.1	322.6	305.6
37.5°	756.8	664.6	574.3	499.0	448.0	412.1	384.2	355.0	326.8	304.3	289.6
40°	746.5	658.9	561.1	482.0	428.4	393.8	370.1	341.3	313.6	292.2	278.5
42.5°	726.7	647.5	546.6	463.2	408.1	373.5	351.6	327.6	301.3	281.2	267.6
45°	678.5	622.5	524.8	435.0	378.1	342.3	323.1	305.6	281.9	262.4	250.5
47.5°	611.6	584.9	493.4	405.3	346.7	312.4	292.3	278.3	260.9	245.1	233.9
50°	565.1	554.0	472.2	384.9	325.9	292.2	272.9	260.2	247.7	232.0	221.7
52.5°	511.5	518.3	447.4	363.9	304.6	271.5	253.4	243.3	232.0	218.9	210.0
55°	436.0	460.6	404.5	328.4	272.9	241.4	224.2	215.3	208.6	199.0	191.3
57.5°	365.3	396.7	358.0	292.0	241.8	214.6	198.1	188.4	184.2	179.2	173.0
60°	323.3	354.3	324.9	267.5	221.0	195.0	180.5	172.2	167.9	164.4	159.3
62.5°	285.8	317.2	292.6	242.7	200.4	176.4	163.7	155.6	152.4	150.6	146.1
65°	234.3	261.4	244.9	204.0	171.1	149.9	138.4	132.7	129.7	129.0	126.1
67.5°	190.7	211.3	199.3	169.2	143.3	125.0	115.2	110.4	108.1	107.8	105.6
70°	162.1	181.4	172.2	144.9	122.6	108.3	99.8	95.5	94.1	93.9	92.7
72.5°	139.9	153.3	146.0	123.3	106.0	93.0	86.7	82.3	80.8	81.1	80.3
75°	103.5	113.6	109.4	93.6	79.8	71.3	66.1	63.3	61.9	62.6	61.6
77.5°	74.5	80.9	77.1	66.1	57.6	51.5	47.7	45.9	44.6	44.6	44.2
80°	56.2	60.0	57.9	51.3	44.2	39.1	36.0	34.8	34.1	33.8	33.6
82.5°	40.1	43.2	40.7	36.3	31.4	28.3	26.6	25.0	24.5	24.6	24.4
85°	20.2	21.4	20.5	17.7	15.8	14.3	13.4	12.7	12.2	12.4	12.0
87.5°	10.7	10.3	9.1	7.9	7.1	6.0	5.6	4.7	4.8	5.3	5.6
90°	18.7	15.7	12.7	10.1	7.9	5.6	3.3	1.0	3.3	5.6	7.9
92.5°	36.0	34.2	32.5	30.9	29.4	27.9	26.3	24.7	26.3	27.9	29.4
95°	72.1	70.3	68.5	66.8	65.1	63.5	61.9	60.4	61.9	63.5	65.1
97.5°	115.8	114.5	113.2	112.0	110.8	109.6	108.4	107.2	108.4	109.6	110.8
100°	148.1	147.0	145.8	144.6	143.2	141.9	140.5	139.2	140.5	141.9	143.2
102.5°	183.4	181.9	180.4	179.3	178.4	177.6	176.8	176.0	176.8	177.6	178.4
105°	237.3	235.3	233.3	232.1	231.6	231.2	230.7	230.2	230.7	231.2	231.6
107.5°	296.5	295.7	294.9	294.3	294.1	293.8	293.5	293.3	293.5	293.8	294.1
110°	335.7	335.3	334.8	334.4	333.9	333.5	333.0	332.5	333.0	333.5	333.9



TEST NUMBER: P332103-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	374.9	374.8	374.7	374.6	374.3	374.0	373.8	373.4	373.8	374.0	374.3
115°	436.8	437.2	437.7	437.6	436.9	436.2	435.5	434.8	435.5	436.2	436.9
117.5°	497.2	497.8	498.4	498.5	498.0	497.6	497.1	496.7	497.1	497.6	498.0
120°	538.4	539.5	540.7	540.6	539.2	537.9	536.4	535.1	536.4	537.9	539.2
122.5°	578.2	578.9	579.4	579.2	578.1	577.2	576.2	575.2	576.2	577.2	578.1
125°	638.3	638.7	639.2	639.1	638.4	637.7	637.0	636.4	637.0	637.7	638.4
127.5°	698.1	698.6	699.1	698.6	697.2	695.8	694.3	692.9	694.3	695.8	697.2
130°	737.0	737.7	738.3	737.8	736.0	734.2	732.4	730.5	732.4	734.2	736.0
132.5°	775.1	775.6	776.1	775.5	773.7	771.7	769.9	768.1	769.9	771.7	773.7
135°	831.2	831.4	831.6	831.1	829.7	828.4	827.0	825.7	827.0	828.4	829.7
137.5°	885.4	884.8	884.2	883.4	882.2	881.1	880.0	878.9	880.0	881.1	882.2
140°	921.4	921.1	920.9	920.2	919.1	918.0	916.9	915.6	916.9	918.0	919.1
142.5°	955.3	954.9	954.5	953.8	952.6	951.5	950.4	949.3	950.4	951.5	952.6
145°	1005.4	1004.7	1004.0	1003.4	1003.0	1002.5	1002.1	1001.6	1002.1	1002.5	1003.0
147.5°	1052.8	1052.1	1051.5	1050.8	1050.0	1049.0	1048.2	1047.4	1048.2	1049.0	1050.0
150°	1082.6	1082.1	1081.7	1081.2	1080.8	1080.3	1079.8	1079.3	1079.8	1080.3	1080.8
152.5°	1109.1	1108.8	1108.5	1108.1	1107.5	1106.8	1106.2	1105.6	1106.2	1106.8	1107.5
155°	1147.5	1147.2	1147.0	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
157.5°	1181.3	1181.1	1180.9	1181.0	1181.2	1181.5	1181.8	1182.1	1181.8	1181.5	1181.2
160°	1202.1	1202.1	1202.1	1202.3	1202.9	1203.3	1203.8	1204.2	1203.8	1203.3	1202.9
162.5°	1221.4	1221.2	1221.0	1221.3	1221.9	1222.5	1223.2	1223.9	1223.2	1222.5	1221.9
165°	1246.2	1246.2	1246.2	1246.5	1247.2	1247.9	1248.5	1249.2	1248.5	1247.9	1247.2
167.5°	1265.9	1265.7	1265.5	1265.9	1266.8	1267.7	1268.6	1269.5	1268.6	1267.7	1266.8
170°	1276.9	1276.9	1276.9	1277.3	1278.2	1279.1	1280.0	1280.9	1280.0	1279.1	1278.2
172.5°	1285.9	1285.9	1285.9	1286.3	1287.2	1288.1	1289.0	1289.9	1289.0	1288.1	1287.2
175°	1295.3	1295.3	1295.3	1295.8	1296.7	1297.6	1298.5	1299.4	1298.5	1297.6	1296.7
177.5°	1300.0	1300.0	1300.0	1300.3	1301.0	1301.8	1302.5	1303.2	1302.5	1301.8	1301.0
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332103-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	477.5	476.2	474.3	471.5	469.2	465.6	465.6	466.2	466.2	466.1	465.6
5°	463.0	459.5	455.2	450.3	445.1	439.9	439.0	437.1	435.8	434.7	433.6
7.5°	447.7	441.4	435.3	428.4	422.0	416.9	413.2	410.2	408.3	406.2	404.7
10°	437.4	429.6	422.3	415.1	407.0	400.6	396.7	393.8	391.7	389.8	388.9
12.5°	425.2	416.3	408.2	401.2	392.5	386.0	382.1	380.8	378.4	374.4	372.3
15°	407.3	399.0	389.4	378.8	374.6	366.6	362.0	359.9	358.5	355.5	354.6
17.5°	391.9	381.2	370.3	362.4	354.6	348.1	345.6	343.0	341.1	338.6	337.8
20°	379.7	370.1	360.2	351.7	343.5	336.4	334.3	332.4	330.5	329.4	328.4
22.5°	367.3	357.7	349.4	341.5	332.8	328.1	325.9	323.8	322.4	321.6	320.7
25°	349.8	341.3	332.1	325.2	318.1	315.0	313.6	312.5	311.4	310.3	310.0
27.5°	334.3	325.0	317.6	310.9	305.9	303.4	301.9	301.4	301.6	302.1	302.4
30°	322.6	314.1	308.0	302.4	297.6	295.3	295.0	295.0	296.0	296.2	296.7
32.5°	311.8	304.9	298.7	293.3	289.7	288.1	289.0	289.0	289.7	290.3	291.2
35°	296.2	290.0	285.4	280.6	277.6	278.3	278.8	279.2	280.4	281.9	282.8
37.5°	281.2	276.0	271.0	267.4	266.0	267.2	268.4	269.3	270.7	271.9	272.8
40°	270.5	266.5	261.9	258.5	259.0	259.7	260.6	261.9	263.1	263.8	264.7
42.5°	260.5	256.4	252.8	250.0	250.7	251.7	252.2	252.8	254.2	255.5	256.0
45°	245.4	242.1	238.8	237.1	237.6	238.1	238.5	239.2	240.4	241.4	241.7
47.5°	228.3	226.0	223.8	222.2	223.0	222.8	223.4	224.9	225.2	225.8	227.1
50°	217.4	215.3	212.7	212.2	212.2	212.2	212.5	214.3	214.3	215.3	216.2
52.5°	205.3	204.0	202.4	201.5	201.1	201.1	202.1	203.0	203.4	204.7	205.7
55°	187.5	186.1	184.7	184.0	183.5	184.0	185.8	186.3	187.5	188.2	188.9
57.5°	169.0	167.8	166.7	166.3	166.2	166.8	167.8	169.3	169.6	171.8	172.8
60°	156.7	155.0	154.1	154.1	153.6	155.7	155.3	157.6	158.1	159.6	161.2
62.5°	144.1	141.9	141.5	141.5	142.2	142.8	143.4	144.4	145.7	147.4	148.8
65°	123.7	122.6	124.2	124.0	123.5	124.9	124.9	126.1	127.5	129.2	131.8
67.5°	104.5	103.9	104.0	104.0	104.7	105.5	106.2	107.2	109.0	110.7	112.4
70°	91.5	92.2	91.1	92.0	92.7	92.9	93.4	94.8	96.6	97.9	99.8
72.5°	78.9	78.9	79.0	79.4	80.1	80.5	81.0	82.6	84.6	85.6	87.2
75°	60.7	60.5	61.2	61.2	62.3	62.8	63.3	64.0	65.8	67.3	68.5
77.5°	44.3	44.6	44.4	45.2	44.9	45.0	46.5	47.2	47.4	50.2	50.8
80°	33.4	33.8	34.1	34.3	34.5	34.1	35.7	36.5	36.5	38.1	39.3
82.5°	24.0	24.2	24.8	25.1	25.1	25.7	25.8	26.3	26.9	27.6	29.1
85°	12.0	12.7	12.9	12.7	12.9	12.4	13.1	13.4	13.6	13.6	13.6
87.5°	5.8	6.5	6.9	7.7	8.1	8.9	9.1	8.9	9.0	9.8	9.2
90°	10.1	12.7	15.7	18.7	21.6	24.5	25.4	26.4	27.3	28.2	28.9
92.5°	30.9	32.5	34.2	36.0	37.6	39.3	40.0	40.7	41.5	42.2	42.4
95°	66.8	68.5	70.3	72.1	73.9	75.7	76.6	77.6	78.5	79.4	79.8
97.5°	112.0	113.2	114.5	115.8	117.1	118.5	119.6	120.6	121.6	122.7	123.1
100°	144.6	145.8	147.0	148.1	149.3	150.4	151.1	151.8	152.5	153.1	153.7
102.5°	179.3	180.4	181.9	183.4	184.9	186.4	187.1	187.7	188.4	189.1	189.5
105°	232.1	233.3	235.3	237.3	239.4	241.5	241.5	241.5	241.5	241.5	241.7
107.5°	294.3	294.9	295.7	296.5	297.3	298.1	298.8	299.6	300.3	301.0	301.2
110°	334.4	334.8	335.3	335.7	336.2	336.6	337.5	338.4	339.3	340.2	340.4



TEST NUMBER: P332103-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	374.6	374.7	374.8	374.9	375.0	375.1	376.2	377.3	378.3	379.4	379.9
115°	437.6	437.7	437.2	436.8	436.3	435.9	436.1	436.3	436.6	436.8	436.8
117.5°	498.5	498.4	497.8	497.2	496.6	496.0	495.9	495.9	495.8	495.8	495.4
120°	540.6	540.7	539.5	538.4	537.2	536.1	535.8	535.6	535.4	535.2	534.8
122.5°	579.2	579.4	578.9	578.2	577.6	577.0	576.4	575.8	575.2	574.7	574.0
125°	639.1	639.2	638.7	638.3	637.8	637.4	636.5	635.6	634.7	633.8	632.9
127.5°	698.6	699.1	698.6	698.1	697.6	697.1	695.9	694.6	693.4	692.1	690.8
130°	737.8	738.3	737.7	737.0	736.3	735.6	734.7	733.8	732.9	732.0	730.7
132.5°	775.5	776.1	775.6	775.1	774.6	774.1	773.0	771.9	770.8	769.7	768.6
135°	831.1	831.6	831.4	831.2	831.0	830.7	829.8	828.9	828.0	827.1	826.5
137.5°	883.4	884.2	884.8	885.4	886.1	886.7	885.7	884.7	883.7	882.8	881.9
140°	920.2	920.9	921.1	921.4	921.6	921.8	921.6	921.4	921.1	920.9	920.0
142.5°	953.8	954.5	954.9	955.3	955.8	956.2	955.9	955.7	955.5	955.3	954.5
145°	1003.4	1004.0	1004.7	1005.4	1006.0	1006.7	1006.5	1006.3	1006.0	1005.8	1005.2
147.5°	1050.8	1051.5	1052.1	1052.8	1053.4	1054.0	1054.0	1054.0	1054.0	1054.0	1053.3
150°	1081.2	1081.7	1082.1	1082.6	1083.0	1083.5	1083.5	1083.5	1083.5	1083.5	1082.8
152.5°	1108.1	1108.5	1108.8	1109.1	1109.4	1109.6	1110.0	1110.3	1110.8	1111.2	1110.8
155°	1146.9	1147.0	1147.2	1147.5	1147.7	1147.9	1148.8	1149.7	1150.6	1151.5	1151.2
157.5°	1181.0	1180.9	1181.1	1181.3	1181.5	1181.6	1182.7	1183.6	1184.6	1185.5	1185.4
160°	1202.3	1202.1	1202.1	1202.1	1202.1	1202.1	1203.3	1204.5	1205.6	1206.7	1206.8
162.5°	1221.3	1221.0	1221.2	1221.4	1221.6	1221.8	1222.9	1224.1	1225.2	1226.4	1226.2
165°	1246.5	1246.2	1246.2	1246.2	1246.2	1246.2	1247.5	1248.9	1250.2	1251.6	1251.5
167.5°	1265.9	1265.5	1265.7	1265.9	1266.1	1266.2	1267.6	1269.0	1270.4	1271.8	1271.8
170°	1277.3	1276.9	1276.9	1276.9	1276.9	1276.9	1278.4	1280.0	1281.6	1283.2	1283.2
172.5°	1286.3	1285.9	1285.9	1285.9	1285.9	1285.9	1287.3	1288.7	1290.1	1291.5	1291.4
175°	1295.8	1295.3	1295.3	1295.3	1295.3	1295.3	1296.7	1298.0	1299.4	1300.7	1300.6
177.5°	1300.3	1300.0	1300.0	1300.0	1300.0	1300.0	1301.0	1302.1	1303.2	1304.3	1304.2
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332103-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	464.3	464.1	465.4	464.5	465.4	464.1	464.3	465.6	466.1	466.2	466.2
5°	432.2	432.9	430.5	430.5	430.5	432.9	432.2	433.6	434.7	435.8	437.1
7.5°	403.5	402.5	402.6	401.3	402.6	402.5	403.5	404.7	406.2	408.3	410.2
10°	386.1	384.7	384.2	384.5	384.2	384.7	386.1	388.9	389.8	391.7	393.8
12.5°	371.5	371.3	368.2	368.2	368.2	371.3	371.5	372.3	374.4	378.4	380.8
15°	354.6	350.1	349.6	351.0	349.6	350.1	354.6	354.6	355.5	358.5	359.9
17.5°	337.5	335.1	335.3	334.6	335.3	335.1	337.5	337.8	338.6	341.1	343.0
20°	328.4	327.0	326.8	325.2	326.8	327.0	328.4	328.4	329.4	330.5	332.4
22.5°	320.1	319.7	319.8	318.0	319.8	319.7	320.1	320.7	321.6	322.4	323.8
25°	309.8	311.0	310.0	310.0	310.0	311.0	309.8	310.0	310.3	311.4	312.5
27.5°	302.9	302.9	302.4	302.4	302.4	302.9	302.9	302.4	302.1	301.6	301.4
30°	297.6	297.4	297.8	297.8	297.8	297.4	297.6	296.7	296.2	296.0	295.0
32.5°	292.4	292.7	292.8	293.0	292.8	292.7	292.4	291.2	290.3	289.7	289.0
35°	284.2	284.5	285.2	284.7	285.2	284.5	284.2	282.8	281.9	280.4	279.2
37.5°	273.2	274.3	274.1	274.4	274.1	274.3	273.2	272.8	271.9	270.7	269.3
40°	264.9	265.6	265.4	265.4	265.4	265.6	264.9	264.7	263.8	263.1	261.9
42.5°	256.4	256.9	256.3	256.0	256.3	256.9	256.4	256.0	255.5	254.2	252.8
45°	242.6	242.1	242.8	241.9	242.8	242.1	242.6	241.7	241.4	240.4	239.2
47.5°	227.0	227.5	227.7	228.4	227.7	227.5	227.0	227.1	225.8	225.2	224.9
50°	216.7	218.1	218.1	217.8	218.1	218.1	216.7	216.2	215.3	214.3	214.3
52.5°	206.5	207.1	208.1	208.0	208.1	207.1	206.5	205.7	204.7	203.4	203.0
55°	190.8	191.3	191.8	192.0	191.8	191.3	190.8	188.9	188.2	187.5	186.3
57.5°	174.5	174.3	175.4	175.8	175.4	174.3	174.5	172.8	171.8	169.6	169.3
60°	163.0	163.0	164.9	165.6	164.9	163.0	163.0	161.2	159.6	158.1	157.6
62.5°	150.8	151.6	153.4	152.5	153.4	151.6	150.8	148.8	147.4	145.7	144.4
65°	132.9	134.8	134.6	135.5	134.6	134.8	132.9	131.8	129.2	127.5	126.1
67.5°	114.2	115.4	117.1	117.2	117.1	115.4	114.2	112.4	110.7	109.0	107.2
70°	101.6	102.8	103.7	104.4	103.7	102.8	101.6	99.8	97.9	96.6	94.8
72.5°	89.4	90.0	92.3	91.3	92.3	90.0	89.4	87.2	85.6	84.6	82.6
75°	70.1	71.8	73.2	72.5	73.2	71.8	70.1	68.5	67.3	65.8	64.0
77.5°	51.8	53.5	54.1	53.5	54.1	53.5	51.8	50.8	50.2	47.4	47.2
80°	40.9	40.7	42.1	41.9	42.1	40.7	40.9	39.3	38.1	36.5	36.5
82.5°	30.0	29.8	30.4	30.6	30.4	29.8	30.0	29.1	27.6	26.9	26.3
85°	14.5	15.2	14.3	14.1	14.3	15.2	14.5	13.6	13.6	13.6	13.4
87.5°	9.3	9.4	9.3	9.2	9.3	9.4	9.3	9.2	9.8	9.0	8.9
90°	29.3	29.8	30.2	30.7	30.2	29.8	29.3	28.9	28.2	27.3	26.4
92.5°	42.1	41.9	41.6	41.3	41.6	41.9	42.1	42.4	42.2	41.5	40.7
95°	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.4	78.5	77.6
97.5°	123.0	123.0	122.9	122.8	122.9	123.0	123.0	123.1	122.7	121.6	120.6
100°	154.1	154.6	155.0	155.5	155.0	154.6	154.1	153.7	153.1	152.5	151.8
102.5°	189.3	189.2	189.1	189.0	189.1	189.2	189.3	189.5	189.1	188.4	187.7
105°	242.2	242.6	243.1	243.5	243.1	242.6	242.2	241.7	241.5	241.5	241.5
107.5°	301.0	300.7	300.4	300.1	300.4	300.7	301.0	301.2	301.0	300.3	299.6
110°	340.0	339.5	339.1	338.6	339.1	339.5	340.0	340.4	340.2	339.3	338.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	379.8	379.7	379.7	379.6	379.7	379.7	379.8	379.9	379.4	378.3	377.3
115°	436.6	436.3	436.1	435.9	436.1	436.3	436.6	436.8	436.8	436.6	436.3
117.5°	494.8	494.2	493.5	492.9	493.5	494.2	494.8	495.4	495.8	495.8	495.9
120°	534.4	533.9	533.5	533.0	533.5	533.9	534.4	534.8	535.2	535.4	535.6
122.5°	573.4	572.8	572.2	571.5	572.2	572.8	573.4	574.0	574.7	575.2	575.8
125°	632.0	631.1	630.2	629.2	630.2	631.1	632.0	632.9	633.8	634.7	635.6
127.5°	689.8	688.8	687.7	686.7	687.7	688.8	689.8	690.8	692.1	693.4	694.6
130°	729.1	727.5	726.0	724.4	726.0	727.5	729.1	730.7	732.0	732.9	733.8
132.5°	767.3	766.1	764.9	763.7	764.9	766.1	767.3	768.6	769.7	770.8	771.9
135°	826.0	825.6	825.1	824.7	825.1	825.6	826.0	826.5	827.1	828.0	828.9
137.5°	881.0	880.2	879.3	878.5	879.3	880.2	881.0	881.9	882.8	883.7	884.7
140°	918.4	916.9	915.2	913.6	915.2	916.9	918.4	920.0	920.9	921.1	921.4
142.5°	953.3	952.1	950.9	949.7	950.9	952.1	953.3	954.5	955.3	955.5	955.7
145°	1004.3	1003.4	1002.5	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.0	1006.3
147.5°	1052.0	1050.6	1049.2	1047.8	1049.2	1050.6	1052.0	1053.3	1054.0	1054.0	1054.0
150°	1081.5	1080.1	1078.7	1077.3	1078.7	1080.1	1081.5	1082.8	1083.5	1083.5	1083.5
152.5°	1109.5	1108.3	1107.1	1106.0	1107.1	1108.3	1109.5	1110.8	1111.2	1110.8	1110.3
155°	1149.6	1148.0	1146.5	1144.9	1146.5	1148.0	1149.6	1151.2	1151.5	1150.6	1149.7
157.5°	1184.1	1182.9	1181.5	1180.2	1181.5	1182.9	1184.1	1185.4	1185.5	1184.6	1183.6
160°	1205.9	1205.0	1204.1	1203.2	1204.1	1205.0	1205.9	1206.8	1206.7	1205.6	1204.5
162.5°	1224.8	1223.2	1221.8	1220.3	1221.8	1223.2	1224.8	1226.2	1226.4	1225.2	1224.1
165°	1249.9	1248.3	1246.7	1245.2	1246.7	1248.3	1249.9	1251.5	1251.6	1250.2	1248.9
167.5°	1270.4	1269.0	1267.6	1266.2	1267.6	1269.0	1270.4	1271.8	1271.8	1270.4	1269.0
170°	1281.6	1280.0	1278.4	1276.9	1278.4	1280.0	1281.6	1283.2	1283.2	1281.6	1280.0
172.5°	1289.8	1288.2	1286.6	1285.1	1286.6	1288.2	1289.8	1291.4	1291.5	1290.1	1288.7
175°	1299.0	1297.4	1295.9	1294.2	1295.9	1297.4	1299.0	1300.6	1300.7	1299.4	1298.0
177.5°	1302.9	1301.7	1300.4	1299.2	1300.4	1301.7	1302.9	1304.2	1304.3	1303.2	1302.1
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	465.6	465.6	469.2	471.5	474.3	476.2	477.5	478.8	481.1	484.0	487.5
5°	439.0	439.9	445.1	450.3	455.2	459.5	463.0	467.3	472.4	478.8	485.8
7.5°	413.2	416.9	422.0	428.4	435.3	441.4	447.7	454.6	462.0	471.3	481.2
10°	396.7	400.6	407.0	415.1	422.3	429.6	437.4	444.8	454.0	465.1	477.9
12.5°	382.1	386.0	392.5	401.2	408.2	416.3	425.2	434.9	445.2	458.5	472.9
15°	362.0	366.6	374.6	378.8	389.4	399.0	407.3	421.3	434.5	448.2	464.8
17.5°	345.6	348.1	354.6	362.4	370.3	381.2	391.9	403.7	416.9	433.5	454.4
20°	334.3	336.4	343.5	351.7	360.2	370.1	379.7	391.5	406.3	423.9	446.6
22.5°	325.9	328.1	332.8	341.5	349.4	357.7	367.3	381.3	397.1	414.3	438.8
25°	313.6	315.0	318.1	325.2	332.1	341.3	349.8	363.0	379.2	399.5	423.9
27.5°	301.9	303.4	305.9	310.9	317.6	325.0	334.3	345.4	361.8	383.8	409.8
30°	295.0	295.3	297.6	302.4	308.0	314.1	322.6	335.3	350.8	373.1	400.4
32.5°	289.0	288.1	289.7	293.3	298.7	304.9	311.8	324.4	339.3	361.2	389.3
35°	278.8	278.3	277.6	280.6	285.4	290.0	296.2	305.6	322.6	343.1	372.4
37.5°	268.4	267.2	266.0	267.4	271.0	276.0	281.2	289.6	304.3	326.8	355.0
40°	260.6	259.7	259.0	258.5	261.9	266.5	270.5	278.5	292.2	313.6	341.3
42.5°	252.2	251.7	250.7	250.0	252.8	256.4	260.5	267.6	281.2	301.3	327.6
45°	238.5	238.1	237.6	237.1	238.8	242.1	245.4	250.5	262.4	281.9	305.6
47.5°	223.4	222.8	223.0	222.2	223.8	226.0	228.3	233.9	245.1	260.9	278.3
50°	212.5	212.2	212.2	212.2	212.7	215.3	217.4	221.7	232.0	247.7	260.2
52.5°	202.1	201.1	201.1	201.5	202.4	204.0	205.3	210.0	218.9	232.0	243.3
55°	185.8	184.0	183.5	184.0	184.7	186.1	187.5	191.3	199.0	208.6	215.3
57.5°	167.8	166.8	166.2	166.3	166.7	167.8	169.0	173.0	179.2	184.2	188.4
60°	155.3	155.7	153.6	154.1	154.1	155.0	156.7	159.3	164.4	167.9	172.2
62.5°	143.4	142.8	142.2	141.5	141.5	141.9	144.1	146.1	150.6	152.4	155.6
65°	124.9	124.9	123.5	124.0	124.2	122.6	123.7	126.1	129.0	129.7	132.7
67.5°	106.2	105.5	104.7	104.0	104.0	103.9	104.5	105.6	107.8	108.1	110.4
70°	93.4	92.9	92.7	92.0	91.1	92.2	91.5	92.7	93.9	94.1	95.5
72.5°	81.0	80.5	80.1	79.4	79.0	78.9	78.9	80.3	81.1	80.8	82.3
75°	63.3	62.8	62.3	61.2	61.2	60.5	60.7	61.6	62.6	61.9	63.3
77.5°	46.5	45.0	44.9	45.2	44.4	44.6	44.3	44.2	44.6	44.6	45.9
80°	35.7	34.1	34.5	34.3	34.1	33.8	33.4	33.6	33.8	34.1	34.8
82.5°	25.8	25.7	25.1	25.1	24.8	24.2	24.0	24.4	24.6	24.5	25.0
85°	13.1	12.4	12.9	12.7	12.9	12.7	12.0	12.0	12.4	12.2	12.7
87.5°	9.1	8.9	8.1	7.7	6.9	6.5	5.8	5.6	5.3	4.8	4.7
90°	25.4	24.5	21.6	18.7	15.7	12.7	10.1	7.9	5.6	3.3	1.0
92.5°	40.0	39.3	37.6	36.0	34.2	32.5	30.9	29.4	27.9	26.3	24.7
95°	76.6	75.7	73.9	72.1	70.3	68.5	66.8	65.1	63.5	61.9	60.4
97.5°	119.6	118.5	117.1	115.8	114.5	113.2	112.0	110.8	109.6	108.4	107.2
100°	151.1	150.4	149.3	148.1	147.0	145.8	144.6	143.2	141.9	140.5	139.2
102.5°	187.1	186.4	184.9	183.4	181.9	180.4	179.3	178.4	177.6	176.8	176.0
105°	241.5	241.5	239.4	237.3	235.3	233.3	232.1	231.6	231.2	230.7	230.2
107.5°	298.8	298.1	297.3	296.5	295.7	294.9	294.3	294.1	293.8	293.5	293.3
110°	337.5	336.6	336.2	335.7	335.3	334.8	334.4	333.9	333.5	333.0	332.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	376.2	375.1	375.0	374.9	374.8	374.7	374.6	374.3	374.0	373.8	373.4
115°	436.1	435.9	436.3	436.8	437.2	437.7	437.6	436.9	436.2	435.5	434.8
117.5°	495.9	496.0	496.6	497.2	497.8	498.4	498.5	498.0	497.6	497.1	496.7
120°	535.8	536.1	537.2	538.4	539.5	540.7	540.6	539.2	537.9	536.4	535.1
122.5°	576.4	577.0	577.6	578.2	578.9	579.4	579.2	578.1	577.2	576.2	575.2
125°	636.5	637.4	637.8	638.3	638.7	639.2	639.1	638.4	637.7	637.0	636.4
127.5°	695.9	697.1	697.6	698.1	698.6	699.1	698.6	697.2	695.8	694.3	692.9
130°	734.7	735.6	736.3	737.0	737.7	738.3	737.8	736.0	734.2	732.4	730.5
132.5°	773.0	774.1	774.6	775.1	775.6	776.1	775.5	773.7	771.7	769.9	768.1
135°	829.8	830.7	831.0	831.2	831.4	831.6	831.1	829.7	828.4	827.0	825.7
137.5°	885.7	886.7	886.1	885.4	884.8	884.2	883.4	882.2	881.1	880.0	878.9
140°	921.6	921.8	921.6	921.4	921.1	920.9	920.2	919.1	918.0	916.9	915.6
142.5°	955.9	956.2	955.8	955.3	954.9	954.5	953.8	952.6	951.5	950.4	949.3
145°	1006.5	1006.7	1006.0	1005.4	1004.7	1004.0	1003.4	1003.0	1002.5	1002.1	1001.6
147.5°	1054.0	1054.0	1053.4	1052.8	1052.1	1051.5	1050.8	1050.0	1049.0	1048.2	1047.4
150°	1083.5	1083.5	1083.0	1082.6	1082.1	1081.7	1081.2	1080.8	1080.3	1079.8	1079.3
152.5°	1110.0	1109.6	1109.4	1109.1	1108.8	1108.5	1108.1	1107.5	1106.8	1106.2	1105.6
155°	1148.8	1147.9	1147.7	1147.5	1147.2	1147.0	1146.9	1146.9	1146.9	1146.9	1146.9
157.5°	1182.7	1181.6	1181.5	1181.3	1181.1	1180.9	1181.0	1181.2	1181.5	1181.8	1182.1
160°	1203.3	1202.1	1202.1	1202.1	1202.1	1202.1	1202.3	1202.9	1203.3	1203.8	1204.2
162.5°	1222.9	1221.8	1221.6	1221.4	1221.2	1221.0	1221.3	1221.9	1222.5	1223.2	1223.9
165°	1247.5	1246.2	1246.2	1246.2	1246.2	1246.2	1246.5	1247.2	1247.9	1248.5	1249.2
167.5°	1267.6	1266.2	1266.1	1265.9	1265.7	1265.5	1265.9	1266.8	1267.7	1268.6	1269.5
170°	1278.4	1276.9	1276.9	1276.9	1276.9	1276.9	1277.3	1278.2	1279.1	1280.0	1280.9
172.5°	1287.3	1285.9	1285.9	1285.9	1285.9	1285.9	1286.3	1287.2	1288.1	1289.0	1289.9
175°	1296.7	1295.3	1295.3	1295.3	1295.3	1295.3	1295.8	1296.7	1297.6	1298.5	1299.4
177.5°	1301.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.3	1301.0	1301.8	1302.5	1303.2
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332103-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	488.6	489.6	492.7	495.0	497.7	499.2	500.6	501.8	503.3	503.6	509.1
5°	490.8	495.4	503.7	509.8	517.4	525.5	531.2	533.8	540.7	546.2	557.5
7.5°	490.2	500.2	512.6	525.5	539.3	552.1	563.2	576.4	585.7	599.9	613.7
10°	489.6	503.0	519.0	535.4	554.7	572.6	588.7	606.5	621.4	640.9	657.5
12.5°	487.9	504.1	526.3	545.8	569.3	593.9	617.6	640.6	653.7	686.2	701.6
15°	483.7	503.0	530.8	560.4	592.6	621.8	651.9	675.9	714.7	743.2	761.3
17.5°	475.7	502.7	535.6	571.4	610.6	649.0	683.2	719.5	760.7	795.2	831.9
20°	471.9	501.6	538.3	577.8	618.5	662.1	700.8	744.6	789.5	823.4	870.5
22.5°	464.9	498.6	538.1	582.1	625.6	670.7	716.1	760.2	812.1	858.8	903.6
25°	453.6	491.2	532.2	581.4	632.4	677.5	732.0	790.5	844.6	904.6	949.3
27.5°	441.6	481.8	522.8	568.6	623.5	677.1	745.5	811.6	877.8	929.6	962.7
30°	432.4	471.5	513.8	560.0	614.3	678.0	754.5	826.7	891.2	935.6	954.2
32.5°	422.4	462.0	499.5	547.9	605.8	677.4	760.1	835.6	891.9	921.5	917.9
35°	406.8	439.9	476.5	523.0	591.2	673.3	763.5	836.4	870.9	864.5	816.6
37.5°	384.2	412.1	448.0	499.0	574.3	664.6	756.8	811.5	809.3	757.6	688.0
40°	370.1	393.8	428.4	482.0	561.1	658.9	746.5	782.0	751.9	679.6	596.4
42.5°	351.6	373.5	408.1	463.2	546.6	647.5	726.7	737.0	678.1	595.0	518.7
45°	323.1	342.3	378.1	435.0	524.8	622.5	678.5	653.3	574.0	488.2	430.1
47.5°	292.3	312.4	346.7	405.3	493.4	584.9	611.6	558.1	476.7	407.0	353.7
50°	272.9	292.2	325.9	384.9	472.2	554.0	565.1	495.9	421.1	359.9	316.2
52.5°	253.4	271.5	304.6	363.9	447.4	518.3	511.5	441.0	372.2	320.0	285.7
55°	224.2	241.4	272.9	328.4	404.5	460.6	436.0	368.7	311.7	271.2	245.1
57.5°	198.1	214.6	241.8	292.0	358.0	396.7	365.3	308.5	263.3	232.1	212.7
60°	180.5	195.0	221.0	267.5	324.9	354.3	323.3	273.2	235.0	210.1	192.7
62.5°	163.7	176.4	200.4	242.7	292.6	317.2	285.8	243.4	211.0	188.8	174.0
65°	138.4	149.9	171.1	204.0	244.9	261.4	234.3	200.0	174.8	158.3	148.5
67.5°	115.2	125.0	143.3	169.2	199.3	211.3	190.7	164.1	145.1	131.9	124.1
70°	99.8	108.3	122.6	144.9	172.2	181.4	162.1	140.2	126.3	115.7	108.5
72.5°	86.7	93.0	106.0	123.3	146.0	153.3	139.9	120.7	107.8	99.8	93.9
75°	66.1	71.3	79.8	93.6	109.4	113.6	103.5	91.5	82.8	77.2	72.7
77.5°	47.7	51.5	57.6	66.1	77.1	80.9	74.5	66.4	60.1	56.4	53.8
80°	36.0	39.1	44.2	51.3	57.9	60.0	56.2	50.1	45.6	43.5	41.4
82.5°	26.6	28.3	31.4	36.3	40.7	43.2	40.1	36.4	33.9	32.0	31.2
85°	13.4	14.3	15.8	17.7	20.5	21.4	20.2	19.3	17.9	16.7	16.7
87.5°	5.6	6.0	7.1	7.9	9.1	10.3	10.7	10.9	11.3	11.3	11.3
90°	3.3	5.6	7.9	10.1	12.7	15.7	18.7	21.6	24.5	25.4	26.4
92.5°	26.3	27.9	29.4	30.9	32.5	34.2	36.0	37.6	39.3	40.0	40.7
95°	61.9	63.5	65.1	66.8	68.5	70.3	72.1	73.9	75.7	76.6	77.6
97.5°	108.4	109.6	110.8	112.0	113.2	114.5	115.8	117.1	118.5	119.6	120.6
100°	140.5	141.9	143.2	144.6	145.8	147.0	148.1	149.3	150.4	151.1	151.8
102.5°	176.8	177.6	178.4	179.3	180.4	181.9	183.4	184.9	186.4	187.1	187.7
105°	230.7	231.2	231.6	232.1	233.3	235.3	237.3	239.4	241.5	241.5	241.5
107.5°	293.5	293.8	294.1	294.3	294.9	295.7	296.5	297.3	298.1	298.8	299.6
110°	333.0	333.5	333.9	334.4	334.8	335.3	335.7	336.2	336.6	337.5	338.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	373.8	374.0	374.3	374.6	374.7	374.8	374.9	375.0	375.1	376.2	377.3
115°	435.5	436.2	436.9	437.6	437.7	437.2	436.8	436.3	435.9	436.1	436.3
117.5°	497.1	497.6	498.0	498.5	498.4	497.8	497.2	496.6	496.0	495.9	495.9
120°	536.4	537.9	539.2	540.6	540.7	539.5	538.4	537.2	536.1	535.8	535.6
122.5°	576.2	577.2	578.1	579.2	579.4	578.9	578.2	577.6	577.0	576.4	575.8
125°	637.0	637.7	638.4	639.1	639.2	638.7	638.3	637.8	637.4	636.5	635.6
127.5°	694.3	695.8	697.2	698.6	699.1	698.6	698.1	697.6	697.1	695.9	694.6
130°	732.4	734.2	736.0	737.8	738.3	737.7	737.0	736.3	735.6	734.7	733.8
132.5°	769.9	771.7	773.7	775.5	776.1	775.6	775.1	774.6	774.1	773.0	771.9
135°	827.0	828.4	829.7	831.1	831.6	831.4	831.2	831.0	830.7	829.8	828.9
137.5°	880.0	881.1	882.2	883.4	884.2	884.8	885.4	886.1	886.7	885.7	884.7
140°	916.9	918.0	919.1	920.2	920.9	921.1	921.4	921.6	921.8	921.6	921.4
142.5°	950.4	951.5	952.6	953.8	954.5	954.9	955.3	955.8	956.2	955.9	955.7
145°	1002.1	1002.5	1003.0	1003.4	1004.0	1004.7	1005.4	1006.0	1006.7	1006.5	1006.3
147.5°	1048.2	1049.0	1050.0	1050.8	1051.5	1052.1	1052.8	1053.4	1054.0	1054.0	1054.0
150°	1079.8	1080.3	1080.8	1081.2	1081.7	1082.1	1082.6	1083.0	1083.5	1083.5	1083.5
152.5°	1106.2	1106.8	1107.5	1108.1	1108.5	1108.8	1109.1	1109.4	1109.6	1110.0	1110.3
155°	1146.9	1146.9	1146.9	1146.9	1147.0	1147.2	1147.5	1147.7	1147.9	1148.8	1149.7
157.5°	1181.8	1181.5	1181.2	1181.0	1180.9	1181.1	1181.3	1181.5	1181.6	1182.7	1183.6
160°	1203.8	1203.3	1202.9	1202.3	1202.1	1202.1	1202.1	1202.1	1202.1	1203.3	1204.5
162.5°	1223.2	1222.5	1221.9	1221.3	1221.0	1221.2	1221.4	1221.6	1221.8	1222.9	1224.1
165°	1248.5	1247.9	1247.2	1246.5	1246.2	1246.2	1246.2	1246.2	1246.2	1247.5	1248.9
167.5°	1268.6	1267.7	1266.8	1265.9	1265.5	1265.7	1265.9	1266.1	1266.2	1267.6	1269.0
170°	1280.0	1279.1	1278.2	1277.3	1276.9	1276.9	1276.9	1276.9	1276.9	1278.4	1280.0
172.5°	1289.0	1288.1	1287.2	1286.3	1285.9	1285.9	1285.9	1285.9	1285.9	1287.3	1288.7
175°	1298.5	1297.6	1296.7	1295.8	1295.3	1295.3	1295.3	1295.3	1295.3	1296.7	1298.0
177.5°	1302.5	1301.8	1301.0	1300.3	1300.0	1300.0	1300.0	1300.0	1300.0	1301.0	1302.1
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	511.0	511.2	513.2	514.7	514.0	514.9	515.3
5°	558.3	566.7	571.2	574.5	574.7	575.0	576.8
7.5°	625.3	634.4	641.1	651.2	654.1	657.5	656.6
10°	674.3	687.7	699.2	705.3	712.0	721.5	713.8
12.5°	720.0	743.8	761.3	770.8	777.0	778.9	775.2
15°	795.5	826.5	843.1	842.7	863.8	873.0	858.7
17.5°	864.5	893.2	916.3	928.0	945.6	949.5	947.8
20°	907.0	938.3	956.1	976.3	985.5	993.7	995.1
22.5°	943.4	971.6	990.8	1007.5	1015.2	1019.2	1021.5
25°	981.1	1003.2	1014.7	1020.6	1022.7	1022.2	1019.2
27.5°	978.5	980.2	967.5	955.0	943.8	931.3	927.0
30°	953.0	933.3	898.0	878.0	848.6	825.3	834.8
32.5°	886.3	846.9	807.3	763.6	727.4	717.1	706.7
35°	756.4	687.2	646.7	599.7	580.9	562.1	549.1
37.5°	611.9	558.5	510.4	479.7	460.8	448.9	442.5
40°	529.1	480.9	441.3	416.4	402.0	388.7	386.8
42.5°	463.0	418.2	388.5	368.6	354.9	349.1	345.0
45°	379.2	348.0	328.0	313.9	304.7	301.1	296.4
47.5°	321.0	298.9	283.9	274.3	267.3	264.7	264.4
50°	288.4	270.0	259.0	251.5	246.1	245.1	241.4
52.5°	264.0	248.0	239.4	232.9	228.9	226.3	225.2
55°	229.1	218.5	210.8	207.0	204.0	201.4	201.4
57.5°	200.5	191.7	186.5	183.3	182.4	180.6	179.4
60°	182.8	175.3	171.3	168.4	166.5	166.8	164.7
62.5°	165.5	160.6	156.7	154.0	151.7	151.8	151.9
65°	140.9	137.1	134.3	133.4	132.0	130.4	130.8
67.5°	119.5	115.9	113.7	112.1	111.6	110.7	112.1
70°	104.0	101.4	99.8	98.4	97.9	98.1	99.3
72.5°	89.9	88.1	86.9	86.3	85.2	85.3	86.1
75°	70.6	69.2	68.3	67.6	67.3	67.3	67.3
77.5°	51.8	51.5	51.1	50.1	50.1	50.4	50.4
80°	40.9	40.2	40.0	39.5	38.8	38.4	39.5
82.5°	30.6	29.9	29.7	29.6	28.5	28.4	29.4
85°	16.5	15.8	16.0	15.8	15.8	15.6	15.6
87.5°	11.3	11.3	11.2	11.5	11.4	11.3	11.8
90°	27.3	28.2	28.9	29.3	29.8	30.2	30.7
92.5°	41.5	42.2	42.4	42.1	41.9	41.6	41.3
95°	78.5	79.4	79.8	79.8	79.8	79.8	79.8
97.5°	121.6	122.7	123.1	123.0	123.0	122.9	122.8
100°	152.5	153.1	153.7	154.1	154.6	155.0	155.5
102.5°	188.4	189.1	189.5	189.3	189.2	189.1	189.0
105°	241.5	241.5	241.7	242.2	242.6	243.1	243.5
107.5°	300.3	301.0	301.2	301.0	300.7	300.4	300.1
110°	339.3	340.2	340.4	340.0	339.5	339.1	338.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	378.3	379.4	379.9	379.8	379.7	379.7	379.6
115°	436.6	436.8	436.8	436.6	436.3	436.1	435.9
117.5°	495.8	495.8	495.4	494.8	494.2	493.5	492.9
120°	535.4	535.2	534.8	534.4	533.9	533.5	533.0
122.5°	575.2	574.7	574.0	573.4	572.8	572.2	571.5
125°	634.7	633.8	632.9	632.0	631.1	630.2	629.2
127.5°	693.4	692.1	690.8	689.8	688.8	687.7	686.7
130°	732.9	732.0	730.7	729.1	727.5	726.0	724.4
132.5°	770.8	769.7	768.6	767.3	766.1	764.9	763.7
135°	828.0	827.1	826.5	826.0	825.6	825.1	824.7
137.5°	883.7	882.8	881.9	881.0	880.2	879.3	878.5
140°	921.1	920.9	920.0	918.4	916.9	915.2	913.6
142.5°	955.5	955.3	954.5	953.3	952.1	950.9	949.7
145°	1006.0	1005.8	1005.2	1004.3	1003.4	1002.5	1001.6
147.5°	1054.0	1054.0	1053.3	1052.0	1050.6	1049.2	1047.8
150°	1083.5	1083.5	1082.8	1081.5	1080.1	1078.7	1077.3
152.5°	1110.8	1111.2	1110.8	1109.5	1108.3	1107.1	1106.0
155°	1150.6	1151.5	1151.2	1149.6	1148.0	1146.5	1144.9
157.5°	1184.6	1185.5	1185.4	1184.1	1182.9	1181.5	1180.2
160°	1205.6	1206.7	1206.8	1205.9	1205.0	1204.1	1203.2
162.5°	1225.2	1226.4	1226.2	1224.8	1223.2	1221.8	1220.3
165°	1250.2	1251.6	1251.5	1249.9	1248.3	1246.7	1245.2
167.5°	1270.4	1271.8	1271.8	1270.4	1269.0	1267.6	1266.2
170°	1281.6	1283.2	1283.2	1281.6	1280.0	1278.4	1276.9
172.5°	1290.1	1291.5	1291.4	1289.8	1288.2	1286.6	1285.1
175°	1299.4	1300.7	1300.6	1299.0	1297.4	1295.9	1294.2
177.5°	1303.2	1304.3	1304.2	1302.9	1301.7	1300.4	1299.2
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4

(END OF REPORT)