

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: P332920-930

Luminaire Tested: **SA4XXRDIP-C575D1205U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332920-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C575D1205U930-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5391.8 lumens
Efficiency: N/A
Efficacy: 109.1 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

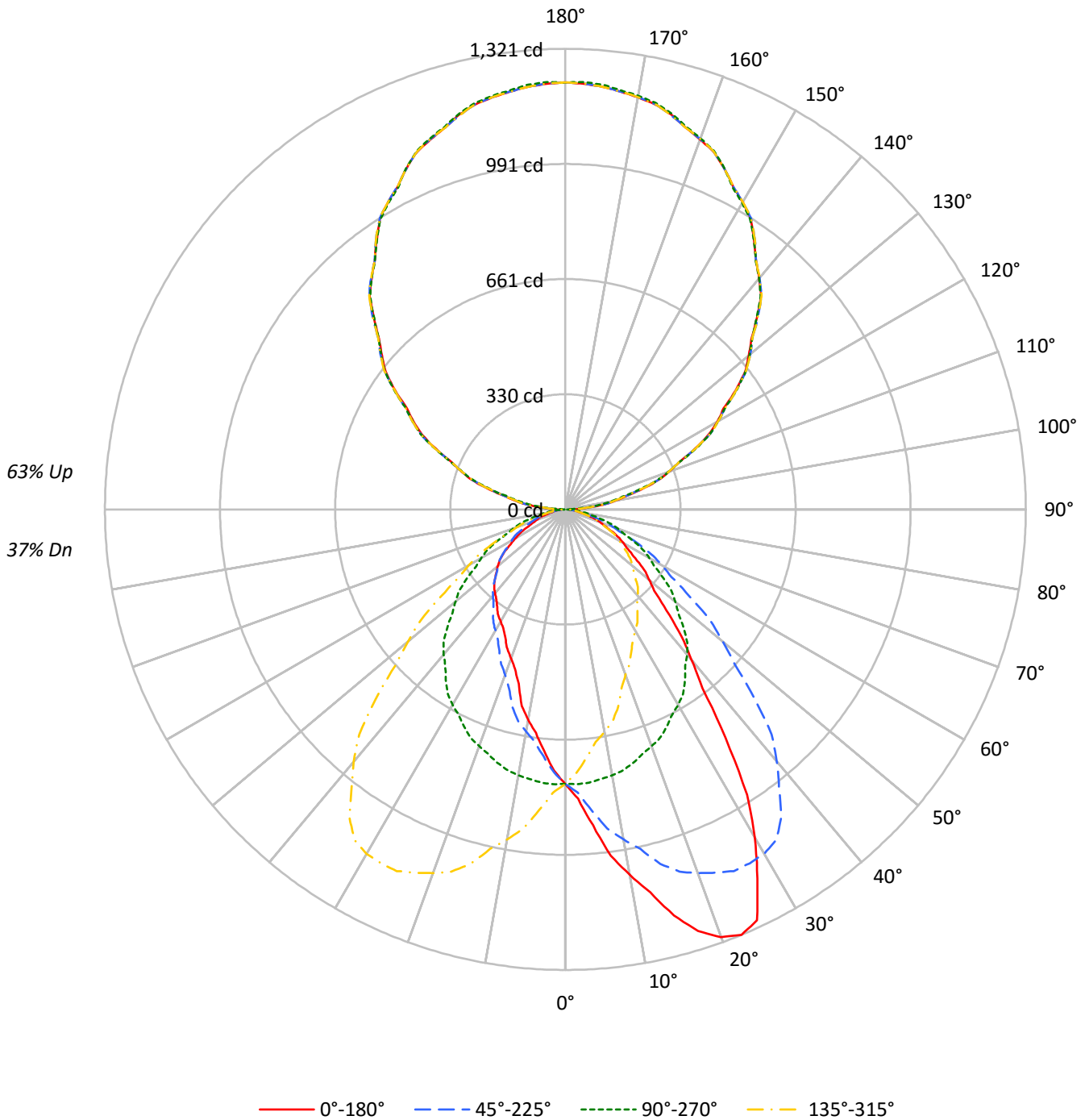
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				37
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	40	39	38				32	
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	32				27	
3	79	70	63	58	72	64	58	53	52	48	45	42	39	36	31	30	28				23	
4	73	62	55	49	66	57	51	45	47	42	38	37	34	31	28	26	24				20	
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21				18	
6	62	50	42	37	56	46	39	34	38	33	29	30	27	24	23	21	19				16	
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	21	19	17				14	
8	53	41	33	28	48	38	31	26	31	26	23	25	22	19	20	17	15				13	
9	49	37	30	25	45	34	28	24	29	24	20	23	20	17	18	16	14				11	
10	46	34	27	23	42	31	25	21	26	21	18	21	18	15	17	14	12				10	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6356	6356	6356	6356
5°	7373	6375	5635	6375
10°	8722	6347	5029	6347
15°	10074	6288	4322	6288
20°	11217	6208	3908	6208
25°	11580	6128	3628	6128
30°	10137	6032	3459	6032
35°	7890	5889	3358	5889
40°	5917	5727	3303	5727
45°	4672	5465	3273	5465
50°	3945	5163	3180	5163
55°	3438	4830	3009	4830
60°	3094	4487	2662	4487
65°	2728	4115	2290	4115
70°	2455	3729	2068	3729
75°	2059	3306	1762	3306
80°	1739	2817	1650	2817
85°	1473	2205	1473	2205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.4
10°-20°	230.1	4.3
20°-30°	359.9	6.7
30°-40°	400.1	7.4
40°-50°	355.0	6.6
50°-60°	276.6	5.1
60°-70°	181.1	3.4
70°-80°	89.1	1.7
80°-90°	25.6	0.5
90°-100°	80.8	1.5
100°-110°	239.3	4.4
110°-120°	406.2	7.5
120°-130°	535.6	9.9
130°-140°	601.5	11.2
140°-150°	591.0	11.0
150°-160°	497.1	9.2
160°-170°	330.7	6.1
170°-180°	115.8	2.1
0°-30°	666.3	12.4
0°-40°	1066.4	19.8
0°-60°	1698.1	31.5
0°-90°	1993.9	37.0
90°-120°	726.2	13.5
90°-150°	2454.3	45.5
90°-180°	3398.0	63.0
0°-180°	5391.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	787	787	787	787	787	
5°	910	787	695	787	910	92
15°	1205	752	517	752	1205	343
25°	1300	688	407	688	1300	577
35°	801	598	341	598	801	502
45°	409	479	287	479	409	324
55°	244	343	214	343	244	222
65°	143	215	120	215	143	144
75°	66	106	56	106	66	73
85°	16	24	16	24	16	19
90°	28	3	28	3	28	15
95°	75	57	75	57	75	78
105°	231	221	231	221	231	244
115°	409	413	409	413	409	404
125°	597	601	597	601	597	532
135°	777	776	777	776	777	600
145°	944	942	944	942	944	590
155°	1079	1080	1079	1080	1079	497
165°	1173	1176	1173	1176	1173	330
175°	1217	1223	1217	1223	1217	116
180°	1225	1225	1225	1225	1225	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	830.5	832.7	830.5	830.2	827.7	827.0	825.9	822.6	816.5	812.9	813.8
5°	909.8	917.7	913.3	912.6	905.6	898.7	894.2	884.1	873.3	866.0	860.0
7.5°	1001.5	1006.1	1003.3	998.8	987.6	981.1	970.9	957.5	938.2	923.3	909.9
10°	1064.0	1067.7	1066.5	1058.3	1050.0	1033.1	1023.7	1004.9	980.5	961.2	943.1
12.5°	1125.4	1129.4	1118.3	1118.7	1103.0	1089.7	1074.6	1051.2	1022.9	997.9	975.3
15°	1205.4	1200.4	1200.4	1194.0	1176.6	1158.1	1142.6	1117.9	1082.3	1052.6	1021.2
17.5°	1268.1	1269.9	1267.3	1252.3	1238.6	1219.6	1191.1	1162.2	1129.2	1089.2	1057.1
20°	1305.7	1305.7	1302.8	1292.7	1274.9	1254.6	1223.8	1192.5	1150.6	1110.3	1074.1
22.5°	1320.9	1321.9	1318.6	1310.2	1294.2	1274.4	1248.2	1216.3	1173.1	1127.8	1083.0
25°	1300.0	1305.9	1306.6	1304.4	1299.7	1287.6	1265.1	1232.4	1193.7	1144.5	1096.3
27.5°	1193.5	1201.1	1207.8	1218.7	1233.3	1241.0	1241.9	1225.3	1191.6	1144.3	1095.8
30°	1087.4	1093.7	1114.4	1141.3	1162.3	1181.3	1197.8	1202.2	1183.2	1140.7	1089.6
32.5°	969.6	978.3	998.9	1027.9	1062.8	1095.0	1132.1	1151.0	1150.5	1124.9	1077.7
35°	800.6	807.0	826.1	856.5	898.4	946.2	1004.9	1050.6	1081.7	1079.5	1050.6
37.5°	645.7	652.9	672.1	697.4	738.0	797.3	854.1	917.0	974.5	1006.8	997.1
40°	561.5	561.8	580.5	606.5	644.6	696.3	758.1	827.9	892.0	944.4	954.5
42.5°	495.0	495.0	507.4	535.5	562.9	611.6	670.6	739.9	814.9	875.3	902.2
45°	409.2	412.1	422.2	439.0	460.6	501.8	549.1	613.5	697.6	769.2	814.0
47.5°	346.5	350.7	357.2	370.9	388.1	415.6	454.6	512.5	580.9	659.7	723.4
50°	314.1	314.7	322.9	330.5	345.4	367.4	401.6	449.8	512.7	588.4	659.2
52.5°	286.2	286.0	291.0	300.6	312.7	329.8	357.4	401.4	457.1	525.0	598.0
55°	244.3	245.8	249.6	257.2	266.4	278.5	300.4	333.4	377.2	435.2	501.5
57.5°	212.4	213.2	216.2	219.5	227.9	236.7	253.1	276.0	312.9	360.4	422.2
60°	191.6	191.9	192.9	197.6	204.3	212.5	223.6	243.0	274.1	317.6	366.4
62.5°	171.3	171.9	173.3	176.8	182.0	187.7	199.3	214.8	240.6	277.7	321.7
65°	142.8	143.1	145.3	146.6	150.7	155.7	164.3	174.8	192.6	223.6	257.0
67.5°	119.3	119.3	119.4	121.2	124.0	127.3	132.5	140.9	154.3	173.3	202.7
70°	104.0	104.0	104.7	105.7	107.2	110.1	112.9	119.3	129.1	144.6	167.1
72.5°	89.8	90.1	90.7	90.9	91.7	94.1	96.2	100.2	107.5	119.3	137.5
75°	66.0	66.9	68.5	69.8	71.3	71.1	73.3	75.8	78.0	85.0	95.5
77.5°	49.1	48.6	48.8	49.9	50.1	50.4	51.9	53.9	55.6	58.9	62.6
80°	37.4	37.4	38.4	38.7	38.4	38.7	40.3	41.3	41.9	43.1	46.6
82.5°	28.3	28.8	28.5	28.8	29.0	29.4	30.7	30.8	31.5	32.0	33.4
85°	15.9	16.1	16.5	15.9	15.9	15.9	16.5	16.8	17.4	17.1	17.8
87.5°	11.3	10.9	11.1	11.0	11.2	10.8	10.8	11.0	10.3	10.3	9.9
90°	28.5	28.0	27.6	27.1	26.7	25.9	24.6	23.4	22.1	20.9	19.2
92.5°	42.1	41.8	41.6	41.3	41.0	40.5	39.8	39.1	38.2	37.5	36.4
95°	74.8	74.8	74.8	74.8	74.8	74.5	73.9	73.2	72.6	72.0	70.5
97.5°	117.2	117.2	117.2	117.2	117.2	116.9	116.1	115.4	114.6	113.8	112.1
100°	146.8	146.8	146.8	146.8	146.8	146.6	146.2	145.8	145.4	145.0	143.0
102.5°	180.2	180.0	179.9	179.7	179.4	179.1	178.6	177.9	177.3	176.8	175.0
105°	231.1	230.5	229.8	229.3	228.6	228.0	227.3	226.7	226.1	225.4	224.6
107.5°	280.8	280.8	280.9	280.9	281.0	280.6	280.1	279.5	278.9	278.3	278.2
110°	316.3	315.8	315.1	314.5	313.8	313.7	314.1	314.5	315.0	315.4	315.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	352.8	352.6	352.5	352.4	352.2	352.2	352.3	352.4	352.5	352.5	352.9
115°	409.2	409.4	409.6	409.9	410.0	410.3	410.4	410.7	410.9	411.1	411.5
117.5°	463.0	463.4	463.8	464.2	464.7	465.2	465.9	466.7	467.4	468.1	468.4
120°	503.9	503.5	503.0	502.6	502.2	502.6	503.6	504.7	505.7	506.8	507.4
122.5°	538.0	538.7	539.6	540.3	541.0	541.8	542.5	543.2	544.0	544.6	544.9
125°	596.7	597.1	597.6	598.0	598.4	598.8	599.2	599.7	600.1	600.5	600.7
127.5°	651.1	651.4	651.8	652.2	652.5	652.8	653.3	653.7	654.1	654.5	654.8
130°	686.7	687.5	688.4	689.3	690.1	690.7	691.1	691.5	692.0	692.4	692.4
132.5°	724.6	725.0	725.3	725.6	725.9	726.4	726.8	727.2	727.6	728.1	728.2
135°	776.7	777.3	778.0	778.6	779.3	779.8	780.2	780.6	781.1	781.5	781.5
137.5°	831.4	831.4	831.2	831.1	831.0	831.2	831.7	832.3	832.8	833.3	833.0
140°	864.8	865.0	865.2	865.4	865.7	865.8	866.1	866.3	866.5	866.7	866.7
142.5°	898.1	898.2	898.2	898.3	898.3	898.4	898.4	898.5	898.5	898.5	898.7
145°	943.5	944.0	944.7	945.3	945.9	946.4	946.6	946.8	947.0	947.2	947.0
147.5°	989.3	989.4	989.7	989.9	990.1	990.3	990.5	990.7	990.8	991.0	991.2
150°	1017.3	1017.5	1017.7	1017.9	1018.1	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2
152.5°	1043.1	1043.6	1044.2	1044.7	1045.3	1045.3	1044.8	1044.2	1043.7	1043.3	1043.1
155°	1078.9	1079.7	1080.6	1081.4	1082.2	1082.2	1081.4	1080.6	1079.7	1078.9	1079.0
157.5°	1110.9	1111.6	1112.3	1113.0	1113.8	1113.8	1113.1	1112.6	1111.9	1111.3	1111.3
160°	1129.1	1130.2	1131.1	1132.2	1133.3	1133.5	1132.9	1132.2	1131.6	1131.0	1131.1
162.5°	1148.0	1149.1	1150.1	1151.2	1152.3	1152.2	1151.0	1149.9	1148.8	1147.6	1147.9
165°	1172.6	1173.5	1174.4	1175.2	1176.0	1175.8	1174.5	1173.3	1172.0	1170.8	1171.2
167.5°	1190.3	1191.6	1192.9	1194.2	1195.5	1195.5	1194.3	1192.9	1191.7	1190.4	1190.4
170°	1200.1	1201.6	1203.1	1204.5	1206.0	1206.2	1204.8	1203.6	1202.3	1201.1	1200.9
172.5°	1208.4	1209.9	1211.4	1212.8	1214.4	1214.4	1212.9	1211.5	1210.1	1208.7	1208.6
175°	1217.2	1218.6	1220.1	1221.6	1223.0	1223.0	1221.6	1220.1	1218.6	1217.2	1217.4
177.5°	1221.7	1223.0	1224.4	1225.7	1227.1	1227.2	1226.0	1224.8	1223.7	1222.5	1222.5
180°	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	811.2	807.6	805.8	801.8	797.0	794.4	792.1	788.9	784.6	780.0	776.7
5°	852.4	844.7	835.2	823.8	813.7	803.8	795.2	786.7	776.9	766.7	756.6
7.5°	894.6	879.6	863.5	844.7	826.6	810.0	794.8	780.2	763.7	748.9	735.4
10°	924.1	903.8	881.3	857.5	833.6	813.0	792.7	774.3	754.0	736.0	720.7
12.5°	947.9	924.1	897.0	867.3	838.7	813.8	790.4	766.5	743.4	723.7	703.4
15°	987.5	954.8	918.4	882.8	845.7	811.8	780.3	752.4	726.1	698.5	679.1
17.5°	1014.7	975.9	931.6	888.9	845.1	805.0	768.8	735.6	705.2	677.0	654.0
20°	1030.9	988.1	939.0	890.4	841.2	798.4	759.5	722.6	691.2	660.8	637.0
22.5°	1040.1	992.7	939.0	888.1	837.2	790.8	748.0	709.7	675.5	645.1	618.7
25°	1043.0	992.2	937.3	879.0	823.2	774.0	729.6	688.0	650.0	619.5	591.6
27.5°	1038.9	979.2	923.0	863.1	805.5	753.7	707.0	663.3	625.3	592.6	563.9
30°	1032.8	968.8	908.5	846.4	788.0	738.2	689.0	647.1	607.5	573.6	544.7
32.5°	1019.7	956.1	891.3	827.5	768.4	717.1	670.5	628.4	589.5	554.7	524.1
35°	993.5	929.1	858.7	793.4	735.3	682.0	638.2	597.6	560.5	523.4	491.1
37.5°	959.0	893.3	823.2	751.7	693.6	643.3	603.1	565.0	528.7	494.9	459.0
40°	926.6	866.7	794.3	723.3	663.7	615.1	578.0	543.4	507.0	473.3	437.4
42.5°	887.3	836.2	763.1	691.8	632.9	586.1	551.5	517.8	484.6	452.0	414.6
45°	821.6	782.9	714.4	645.9	586.5	540.2	508.5	478.7	449.5	418.4	383.2
47.5°	746.3	720.2	661.0	590.8	536.0	494.3	463.7	439.3	414.6	383.5	352.6
50°	694.1	677.3	620.2	556.1	503.8	465.4	434.0	411.1	390.5	360.7	333.0
52.5°	638.2	629.3	581.1	519.8	469.2	431.6	404.8	384.3	363.4	338.6	312.7
55°	553.3	558.0	517.1	464.1	416.5	384.8	360.4	343.2	325.5	304.5	284.5
57.5°	466.3	483.7	456.2	409.7	365.1	335.8	317.4	303.0	288.1	270.7	253.6
60°	414.3	428.8	413.4	372.4	333.4	306.1	289.0	277.9	262.9	247.1	234.1
62.5°	363.5	379.1	369.9	336.9	300.7	277.2	262.1	251.8	240.7	226.8	213.3
65°	299.8	309.9	305.5	282.7	257.0	236.9	223.0	215.4	205.2	195.1	183.0
67.5°	229.6	249.2	246.6	234.5	212.3	196.7	187.5	180.8	171.5	164.0	155.8
70°	188.7	206.8	206.5	196.7	184.6	170.0	163.7	158.0	149.7	142.4	135.7
72.5°	154.5	171.0	173.5	166.0	157.8	146.7	140.6	136.6	128.7	123.7	118.2
75°	108.2	120.3	123.4	123.4	119.6	113.9	108.5	106.0	100.2	95.8	92.6
77.5°	70.9	78.5	83.5	84.6	85.2	83.3	78.8	77.0	72.7	71.1	68.1
80°	50.1	55.2	60.9	62.8	64.4	63.8	61.9	60.6	56.5	54.9	53.6
82.5°	34.7	37.4	42.2	46.3	45.9	47.5	45.9	44.8	41.7	41.2	39.9
85°	18.1	18.4	19.0	21.9	23.5	24.1	24.5	23.8	22.8	22.8	20.6
87.5°	9.6	9.0	9.1	8.8	8.6	9.1	9.4	9.2	8.9	8.6	8.3
90°	17.4	15.8	14.1	12.1	9.8	7.5	5.1	2.9	5.1	7.5	9.8
92.5°	35.1	34.0	32.8	30.9	28.2	25.6	22.9	20.3	22.9	25.6	28.2
95°	69.1	67.6	66.1	64.4	62.5	60.7	58.7	56.8	58.7	60.7	62.5
97.5°	110.4	108.7	107.0	105.3	103.8	102.3	100.8	99.3	100.8	102.3	103.8
100°	141.1	139.3	137.4	136.0	135.1	134.3	133.5	132.6	133.5	134.3	135.1
102.5°	173.3	171.5	169.8	168.8	168.4	168.1	167.8	167.5	167.8	168.1	168.4
105°	223.7	222.9	222.1	221.5	221.4	221.1	220.9	220.7	220.9	221.1	221.4
107.5°	278.0	277.9	277.8	277.6	277.4	277.1	276.9	276.5	276.9	277.1	277.4
110°	315.8	316.1	316.3	316.2	315.8	315.3	314.9	314.5	314.9	315.3	315.8



TEST NUMBER: P332920-930

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	353.4	353.7	354.1	354.2	354.2	354.1	354.0	353.8	354.0	354.1	354.2
115°	412.0	412.4	412.8	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9
117.5°	468.7	469.0	469.3	469.4	469.2	469.0	468.9	468.7	468.9	469.0	469.2
120°	508.0	508.7	509.3	509.2	508.3	507.5	506.6	505.8	506.6	507.5	508.3
122.5°	545.3	545.5	545.8	545.8	545.4	545.1	544.8	544.5	544.8	545.1	545.4
125°	601.0	601.2	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.4
127.5°	655.2	655.5	655.9	655.7	655.1	654.4	653.9	653.2	653.9	654.4	655.1
130°	692.4	692.4	692.4	692.1	691.5	690.8	690.2	689.6	690.2	690.8	691.5
132.5°	728.4	728.6	728.7	728.6	728.1	727.7	727.2	726.7	727.2	727.7	728.1
135°	781.5	781.5	781.5	780.8	779.6	778.3	777.1	775.8	777.1	778.3	779.6
137.5°	832.7	832.3	832.0	831.5	831.0	830.4	829.8	829.2	829.8	830.4	831.0
140°	866.7	866.7	866.7	866.5	866.1	865.7	865.2	864.8	865.2	865.7	866.1
142.5°	898.9	899.0	899.2	899.1	898.6	898.2	897.8	897.4	897.8	898.2	898.6
145°	946.8	946.6	946.4	945.8	945.0	944.2	943.3	942.5	943.3	944.2	945.0
147.5°	991.3	991.5	991.6	991.2	990.2	989.2	988.2	987.2	988.2	989.2	990.2
150°	1018.2	1018.2	1018.2	1017.8	1017.0	1016.2	1015.3	1014.5	1015.3	1016.2	1017.0
152.5°	1042.9	1042.8	1042.6	1042.3	1041.7	1041.2	1040.7	1040.2	1040.7	1041.2	1041.7
155°	1079.3	1079.5	1079.7	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8	1079.8
157.5°	1111.3	1111.4	1111.4	1111.7	1112.1	1112.4	1112.8	1113.1	1112.8	1112.4	1112.1
160°	1131.4	1131.6	1131.8	1132.0	1132.2	1132.5	1132.7	1132.9	1132.7	1132.5	1132.2
162.5°	1148.1	1148.3	1148.5	1148.8	1149.4	1150.0	1150.5	1151.0	1150.5	1150.0	1149.4
165°	1171.6	1172.0	1172.4	1173.0	1173.6	1174.2	1174.8	1175.5	1174.8	1174.2	1173.6
167.5°	1190.3	1190.3	1190.3	1190.7	1191.6	1192.5	1193.4	1194.3	1193.4	1192.5	1191.6
170°	1200.6	1200.4	1200.2	1200.6	1201.7	1202.7	1203.8	1204.8	1203.8	1202.7	1201.7
172.5°	1208.6	1208.5	1208.4	1208.9	1209.7	1210.6	1211.5	1212.4	1211.5	1210.6	1209.7
175°	1217.6	1217.8	1218.0	1218.6	1219.7	1220.7	1221.8	1222.9	1221.8	1220.7	1219.7
177.5°	1222.5	1222.5	1222.5	1222.9	1223.8	1224.6	1225.4	1226.3	1225.4	1224.6	1223.8
180°	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	773.1	770.6	767.3	763.4	758.9	754.9	753.1	754.6	755.4	753.3	753.1
5°	749.6	741.7	735.3	725.8	718.2	711.8	707.4	705.5	706.1	701.1	699.8
7.5°	723.1	713.7	703.4	692.0	681.5	672.2	667.3	664.6	659.3	657.0	653.1
10°	706.1	693.4	683.3	669.9	657.9	646.8	641.4	637.0	631.6	629.0	623.6
12.5°	688.6	673.9	662.8	648.9	636.6	623.2	618.1	609.8	601.4	596.1	589.1
15°	663.9	646.2	632.5	616.0	601.4	586.2	572.6	557.3	551.6	539.6	532.6
17.5°	635.0	617.0	600.1	578.0	555.5	536.6	522.0	507.5	498.7	491.1	487.5
20°	616.0	599.6	576.1	550.4	525.3	504.3	492.6	483.1	473.6	468.2	464.4
22.5°	598.0	577.0	549.7	522.0	496.9	480.5	470.6	460.8	453.1	447.9	442.9
25°	567.9	540.2	511.4	479.6	462.5	448.3	437.4	429.5	424.8	418.1	415.6
27.5°	536.8	503.4	471.5	450.2	432.4	419.3	409.9	404.0	397.9	393.6	390.4
30°	512.9	479.0	450.5	430.2	412.1	401.3	393.6	386.7	382.0	378.5	375.9
32.5°	489.3	455.4	431.4	409.6	395.3	384.8	376.7	371.5	367.7	363.2	361.7
35°	455.2	425.1	404.1	384.5	369.9	360.4	354.0	348.6	345.4	344.2	343.2
37.5°	422.4	397.7	375.2	359.1	346.1	338.6	331.1	328.5	326.3	324.0	325.1
40°	401.6	378.5	358.5	341.4	330.8	322.6	318.1	315.0	313.1	313.1	313.1
42.5°	383.6	360.9	341.4	326.1	315.6	308.7	303.7	301.0	300.4	300.1	301.7
45°	355.6	334.7	315.0	302.3	293.4	286.4	283.6	281.4	281.4	282.7	283.0
47.5°	327.9	308.3	292.4	278.3	270.1	265.8	263.3	262.1	262.3	263.5	265.0
50°	310.9	291.6	276.0	263.3	255.7	251.5	249.3	248.7	249.3	249.3	251.5
52.5°	292.4	275.0	259.8	249.1	240.4	236.6	235.4	234.5	234.9	235.9	236.8
55°	265.2	249.6	235.1	224.9	218.6	216.1	213.2	213.5	212.9	213.5	213.5
57.5°	238.0	224.0	210.4	202.4	196.8	193.1	190.0	190.9	190.0	189.8	189.3
60°	220.5	205.2	194.4	187.2	180.8	177.7	174.8	175.5	174.5	173.8	172.6
62.5°	201.5	188.7	178.5	171.5	166.3	162.7	159.8	159.1	156.9	154.8	152.0
65°	173.8	163.4	154.2	147.5	142.8	139.9	137.7	135.7	131.0	126.0	123.4
67.5°	147.0	139.4	130.9	125.2	121.4	117.6	113.4	110.1	105.7	102.9	101.3
70°	129.7	122.5	115.1	109.7	105.7	102.2	97.3	95.1	92.0	90.7	89.1
72.5°	113.2	106.5	99.6	94.8	90.4	87.6	84.0	81.7	80.3	79.8	78.2
75°	88.2	82.8	77.7	73.3	69.8	67.9	66.3	64.7	64.1	61.2	59.6
77.5°	64.3	60.7	57.6	54.5	51.9	50.7	47.6	45.8	44.8	43.4	43.0
80°	50.1	47.6	44.4	42.5	39.1	37.7	36.4	36.2	35.9	35.5	35.2
82.5°	37.7	35.1	32.0	30.8	29.9	29.1	28.4	28.0	27.7	27.9	27.9
85°	19.0	17.8	17.8	17.4	17.1	16.8	16.5	16.5	16.1	16.5	16.1
87.5°	8.8	8.9	9.2	9.0	9.7	10.0	10.0	10.3	10.8	10.5	10.7
90°	12.1	14.1	15.8	17.4	19.2	20.9	22.1	23.4	24.6	25.9	26.7
92.5°	30.9	32.8	34.0	35.1	36.4	37.5	38.2	39.1	39.8	40.5	41.0
95°	64.4	66.1	67.6	69.1	70.5	72.0	72.6	73.2	73.9	74.5	74.8
97.5°	105.3	107.0	108.7	110.4	112.1	113.8	114.6	115.4	116.1	116.9	117.2
100°	136.0	137.4	139.3	141.1	143.0	145.0	145.4	145.8	146.2	146.6	146.8
102.5°	168.8	169.8	171.5	173.3	175.0	176.8	177.3	177.9	178.6	179.1	179.4
105°	221.5	222.1	222.9	223.7	224.6	225.4	226.1	226.7	227.3	228.0	228.6
107.5°	277.6	277.8	277.9	278.0	278.2	278.3	278.9	279.5	280.1	280.6	281.0
110°	316.2	316.3	316.1	315.8	315.6	315.4	315.0	314.5	314.1	313.7	313.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	354.2	354.1	353.7	353.4	352.9	352.5	352.5	352.4	352.3	352.2	352.2
115°	412.9	412.8	412.4	412.0	411.5	411.1	410.9	410.7	410.4	410.3	410.0
117.5°	469.4	469.3	469.0	468.7	468.4	468.1	467.4	466.7	465.9	465.2	464.7
120°	509.2	509.3	508.7	508.0	507.4	506.8	505.7	504.7	503.6	502.6	502.2
122.5°	545.8	545.8	545.5	545.3	544.9	544.6	544.0	543.2	542.5	541.8	541.0
125°	601.4	601.4	601.2	601.0	600.7	600.5	600.1	599.7	599.2	598.8	598.4
127.5°	655.7	655.9	655.5	655.2	654.8	654.5	654.1	653.7	653.3	652.8	652.5
130°	692.1	692.4	692.4	692.4	692.4	692.4	692.0	691.5	691.1	690.7	690.1
132.5°	728.6	728.7	728.6	728.4	728.2	728.1	727.6	727.2	726.8	726.4	725.9
135°	780.8	781.5	781.5	781.5	781.5	781.5	781.1	780.6	780.2	779.8	779.3
137.5°	831.5	832.0	832.3	832.7	833.0	833.3	832.8	832.3	831.7	831.2	831.0
140°	866.5	866.7	866.7	866.7	866.7	866.7	866.5	866.3	866.1	865.8	865.7
142.5°	899.1	899.2	899.0	898.9	898.7	898.5	898.5	898.5	898.4	898.4	898.3
145°	945.8	946.4	946.6	946.8	947.0	947.2	947.0	946.8	946.6	946.4	945.9
147.5°	991.2	991.6	991.5	991.3	991.2	991.0	990.8	990.7	990.5	990.3	990.1
150°	1017.8	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2	1018.1
152.5°	1042.3	1042.6	1042.8	1042.9	1043.1	1043.3	1043.7	1044.2	1044.8	1045.3	1045.3
155°	1079.8	1079.7	1079.5	1079.3	1079.0	1078.9	1079.7	1080.6	1081.4	1082.2	1082.2
157.5°	1111.7	1111.4	1111.4	1111.3	1111.3	1111.3	1111.9	1112.6	1113.1	1113.8	1113.8
160°	1132.0	1131.8	1131.6	1131.4	1131.1	1131.0	1131.6	1132.2	1132.9	1133.5	1133.3
162.5°	1148.8	1148.5	1148.3	1148.1	1147.9	1147.6	1148.8	1149.9	1151.0	1152.2	1152.3
165°	1173.0	1172.4	1172.0	1171.6	1171.2	1170.8	1172.0	1173.3	1174.5	1175.8	1176.0
167.5°	1190.7	1190.3	1190.3	1190.3	1190.4	1190.4	1191.7	1192.9	1194.3	1195.5	1195.5
170°	1200.6	1200.2	1200.4	1200.6	1200.9	1201.1	1202.3	1203.6	1204.8	1206.2	1206.0
172.5°	1208.9	1208.4	1208.5	1208.6	1208.6	1208.7	1210.1	1211.5	1212.9	1214.4	1214.4
175°	1218.6	1218.0	1217.8	1217.6	1217.4	1217.2	1218.6	1220.1	1221.6	1223.0	1223.0
177.5°	1222.9	1222.5	1222.5	1222.5	1222.5	1222.5	1223.7	1224.8	1226.0	1227.2	1227.1
180°	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	751.5	752.0	750.3	749.7	750.3	752.0	751.5	753.1	753.3	755.4	754.6
5°	697.2	696.6	695.0	695.4	695.0	696.6	697.2	699.8	701.1	706.1	705.5
7.5°	650.8	648.3	649.1	646.5	649.1	648.3	650.8	653.1	657.0	659.3	664.6
10°	622.4	618.9	616.0	613.5	616.0	618.9	622.4	623.6	629.0	631.6	637.0
12.5°	583.6	580.6	576.7	577.5	576.7	580.6	583.6	589.1	596.1	601.4	609.8
15°	528.5	523.7	516.1	517.1	516.1	523.7	528.5	532.6	539.6	551.6	557.3
17.5°	481.8	481.9	478.4	479.2	478.4	481.9	481.8	487.5	491.1	498.7	507.5
20°	457.7	455.5	455.8	454.9	455.8	455.5	457.7	464.4	468.2	473.6	483.1
22.5°	441.0	438.3	436.0	434.1	436.0	438.3	441.0	442.9	447.9	453.1	460.8
25°	412.7	410.8	408.0	407.3	408.0	410.8	412.7	415.6	418.1	424.8	429.5
27.5°	387.8	387.4	386.3	384.8	386.3	387.4	387.8	390.4	393.6	397.9	404.0
30°	373.3	372.8	372.1	371.1	372.1	372.8	373.3	375.9	378.5	382.0	386.7
32.5°	360.4	360.0	359.4	359.5	359.4	360.0	360.4	361.7	363.2	367.7	371.5
35°	341.9	341.6	341.0	340.7	341.0	341.6	341.9	343.2	344.2	345.4	348.6
37.5°	324.7	325.5	325.1	325.1	325.1	325.5	324.7	325.1	324.0	326.3	328.5
40°	312.7	313.1	313.7	313.4	313.7	313.1	312.7	313.1	313.1	313.1	315.0
42.5°	302.9	303.0	303.9	302.7	303.9	303.0	302.9	301.7	300.1	300.4	301.0
45°	285.2	287.1	286.7	286.7	286.7	287.1	285.2	283.0	282.7	281.4	281.4
47.5°	265.8	267.5	267.9	267.8	267.9	267.5	265.8	265.0	263.5	262.3	262.1
50°	253.2	252.5	253.5	253.2	253.5	252.5	253.2	251.5	249.3	249.3	248.7
52.5°	237.7	237.8	237.7	237.4	237.7	237.8	237.7	236.8	235.9	234.9	234.5
55°	213.8	214.1	213.5	213.8	213.5	214.1	213.8	213.5	213.5	212.9	213.5
57.5°	187.9	186.4	187.0	186.3	187.0	186.4	187.9	189.3	189.8	190.0	190.9
60°	169.4	166.9	166.2	164.9	166.2	166.9	169.4	172.6	173.8	174.5	175.5
62.5°	148.5	146.8	144.6	145.7	144.6	146.8	148.5	152.0	154.8	156.9	159.1
65°	120.8	119.6	118.6	119.9	118.6	119.6	120.8	123.4	126.0	131.0	135.7
67.5°	100.0	99.4	99.4	98.7	99.4	99.4	100.0	101.3	102.9	105.7	110.1
70°	89.1	88.2	88.2	87.6	88.2	88.2	89.1	89.1	90.7	92.0	95.1
72.5°	77.9	77.0	77.3	76.9	77.3	77.0	77.9	78.2	79.8	80.3	81.7
75°	57.7	56.2	56.2	56.5	56.2	56.2	57.7	59.6	61.2	64.1	64.7
77.5°	43.0	42.7	43.2	42.6	43.2	42.7	43.0	43.0	43.4	44.8	45.8
80°	35.2	34.9	34.6	35.5	34.6	34.9	35.2	35.2	35.5	35.9	36.2
82.5°	27.3	27.3	27.2	28.5	27.2	27.3	27.3	27.9	27.9	27.7	28.0
85°	16.5	15.9	16.5	15.9	16.5	15.9	16.5	16.1	16.5	16.1	16.5
87.5°	11.3	11.1	10.9	11.3	10.9	11.1	11.3	10.7	10.5	10.8	10.3
90°	27.1	27.6	28.0	28.5	28.0	27.6	27.1	26.7	25.9	24.6	23.4
92.5°	41.3	41.6	41.8	42.1	41.8	41.6	41.3	41.0	40.5	39.8	39.1
95°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.5	73.9	73.2
97.5°	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2	116.9	116.1	115.4
100°	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.6	146.2	145.8
102.5°	179.7	179.9	180.0	180.2	180.0	179.9	179.7	179.4	179.1	178.6	177.9
105°	229.3	229.8	230.5	231.1	230.5	229.8	229.3	228.6	228.0	227.3	226.7
107.5°	280.9	280.9	280.8	280.8	280.8	280.9	280.9	281.0	280.6	280.1	279.5
110°	314.5	315.1	315.8	316.3	315.8	315.1	314.5	313.8	313.7	314.1	314.5



TEST NUMBER: P332920-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	352.4	352.5	352.6	352.8	352.6	352.5	352.4	352.2	352.2	352.3	352.4
115°	409.9	409.6	409.4	409.2	409.4	409.6	409.9	410.0	410.3	410.4	410.7
117.5°	464.2	463.8	463.4	463.0	463.4	463.8	464.2	464.7	465.2	465.9	466.7
120°	502.6	503.0	503.5	503.9	503.5	503.0	502.6	502.2	502.6	503.6	504.7
122.5°	540.3	539.6	538.7	538.0	538.7	539.6	540.3	541.0	541.8	542.5	543.2
125°	598.0	597.6	597.1	596.7	597.1	597.6	598.0	598.4	598.8	599.2	599.7
127.5°	652.2	651.8	651.4	651.1	651.4	651.8	652.2	652.5	652.8	653.3	653.7
130°	689.3	688.4	687.5	686.7	687.5	688.4	689.3	690.1	690.7	691.1	691.5
132.5°	725.6	725.3	725.0	724.6	725.0	725.3	725.6	725.9	726.4	726.8	727.2
135°	778.6	778.0	777.3	776.7	777.3	778.0	778.6	779.3	779.8	780.2	780.6
137.5°	831.1	831.2	831.4	831.4	831.4	831.2	831.1	831.0	831.2	831.7	832.3
140°	865.4	865.2	865.0	864.8	865.0	865.2	865.4	865.7	865.8	866.1	866.3
142.5°	898.3	898.2	898.2	898.1	898.2	898.2	898.3	898.3	898.4	898.4	898.5
145°	945.3	944.7	944.0	943.5	944.0	944.7	945.3	945.9	946.4	946.6	946.8
147.5°	989.9	989.7	989.4	989.3	989.4	989.7	989.9	990.1	990.3	990.5	990.7
150°	1017.9	1017.7	1017.5	1017.3	1017.5	1017.7	1017.9	1018.1	1018.2	1018.2	1018.2
152.5°	1044.7	1044.2	1043.6	1043.1	1043.6	1044.2	1044.7	1045.3	1045.3	1044.8	1044.2
155°	1081.4	1080.6	1079.7	1078.9	1079.7	1080.6	1081.4	1082.2	1082.2	1081.4	1080.6
157.5°	1113.0	1112.3	1111.6	1110.9	1111.6	1112.3	1113.0	1113.8	1113.8	1113.1	1112.6
160°	1132.2	1131.1	1130.2	1129.1	1130.2	1131.1	1132.2	1133.3	1133.5	1132.9	1132.2
162.5°	1151.2	1150.1	1149.1	1148.0	1149.1	1150.1	1151.2	1152.3	1152.2	1151.0	1149.9
165°	1175.2	1174.4	1173.5	1172.6	1173.5	1174.4	1175.2	1176.0	1175.8	1174.5	1173.3
167.5°	1194.2	1192.9	1191.6	1190.3	1191.6	1192.9	1194.2	1195.5	1195.5	1194.3	1192.9
170°	1204.5	1203.1	1201.6	1200.1	1201.6	1203.1	1204.5	1206.0	1206.2	1204.8	1203.6
172.5°	1212.8	1211.4	1209.9	1208.4	1209.9	1211.4	1212.8	1214.4	1214.4	1212.9	1211.5
175°	1221.6	1220.1	1218.6	1217.2	1218.6	1220.1	1221.6	1223.0	1223.0	1221.6	1220.1
177.5°	1225.7	1224.4	1223.0	1221.7	1223.0	1224.4	1225.7	1227.1	1227.2	1226.0	1224.8
180°	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	753.1	754.9	758.9	763.4	767.3	770.6	773.1	776.7	780.0	784.6	788.9
5°	707.4	711.8	718.2	725.8	735.3	741.7	749.6	756.6	766.7	776.9	786.7
7.5°	667.3	672.2	681.5	692.0	703.4	713.7	723.1	735.4	748.9	763.7	780.2
10°	641.4	646.8	657.9	669.9	683.3	693.4	706.1	720.7	736.0	754.0	774.3
12.5°	618.1	623.2	636.6	648.9	662.8	673.9	688.6	703.4	723.7	743.4	766.5
15°	572.6	586.2	601.4	616.0	632.5	646.2	663.9	679.1	698.5	726.1	752.4
17.5°	522.0	536.6	555.5	578.0	600.1	617.0	635.0	654.0	677.0	705.2	735.6
20°	492.6	504.3	525.3	550.4	576.1	599.6	616.0	637.0	660.8	691.2	722.6
22.5°	470.6	480.5	496.9	522.0	549.7	577.0	598.0	618.7	645.1	675.5	709.7
25°	437.4	448.3	462.5	479.6	511.4	540.2	567.9	591.6	619.5	650.0	688.0
27.5°	409.9	419.3	432.4	450.2	471.5	503.4	536.8	563.9	592.6	625.3	663.3
30°	393.6	401.3	412.1	430.2	450.5	479.0	512.9	544.7	573.6	607.5	647.1
32.5°	376.7	384.8	395.3	409.6	431.4	455.4	489.3	524.1	554.7	589.5	628.4
35°	354.0	360.4	369.9	384.5	404.1	425.1	455.2	491.1	523.4	560.5	597.6
37.5°	331.1	338.6	346.1	359.1	375.2	397.7	422.4	459.0	494.9	528.7	565.0
40°	318.1	322.6	330.8	341.4	358.5	378.5	401.6	437.4	473.3	507.0	543.4
42.5°	303.7	308.7	315.6	326.1	341.4	360.9	383.6	414.6	452.0	484.6	517.8
45°	283.6	286.4	293.4	302.3	315.0	334.7	355.6	383.2	418.4	449.5	478.7
47.5°	263.3	265.8	270.1	278.3	292.4	308.3	327.9	352.6	383.5	414.6	439.3
50°	249.3	251.5	255.7	263.3	276.0	291.6	310.9	333.0	360.7	390.5	411.1
52.5°	235.4	236.6	240.4	249.1	259.8	275.0	292.4	312.7	338.6	363.4	384.3
55°	213.2	216.1	218.6	224.9	235.1	249.6	265.2	284.5	304.5	325.5	343.2
57.5°	190.0	193.1	196.8	202.4	210.4	224.0	238.0	253.6	270.7	288.1	303.0
60°	174.8	177.7	180.8	187.2	194.4	205.2	220.5	234.1	247.1	262.9	277.9
62.5°	159.8	162.7	166.3	171.5	178.5	188.7	201.5	213.3	226.8	240.7	251.8
65°	137.7	139.9	142.8	147.5	154.2	163.4	173.8	183.0	195.1	205.2	215.4
67.5°	113.4	117.6	121.4	125.2	130.9	139.4	147.0	155.8	164.0	171.5	180.8
70°	97.3	102.2	105.7	109.7	115.1	122.5	129.7	135.7	142.4	149.7	158.0
72.5°	84.0	87.6	90.4	94.8	99.6	106.5	113.2	118.2	123.7	128.7	136.6
75°	66.3	67.9	69.8	73.3	77.7	82.8	88.2	92.6	95.8	100.2	106.0
77.5°	47.6	50.7	51.9	54.5	57.6	60.7	64.3	68.1	71.1	72.7	77.0
80°	36.4	37.7	39.1	42.5	44.4	47.6	50.1	53.6	54.9	56.5	60.6
82.5°	28.4	29.1	29.9	30.8	32.0	35.1	37.7	39.9	41.2	41.7	44.8
85°	16.5	16.8	17.1	17.4	17.8	17.8	19.0	20.6	22.8	22.8	23.8
87.5°	10.0	10.0	9.7	9.0	9.2	8.9	8.8	8.3	8.6	8.9	9.2
90°	22.1	20.9	19.2	17.4	15.8	14.1	12.1	9.8	7.5	5.1	2.9
92.5°	38.2	37.5	36.4	35.1	34.0	32.8	30.9	28.2	25.6	22.9	20.3
95°	72.6	72.0	70.5	69.1	67.6	66.1	64.4	62.5	60.7	58.7	56.8
97.5°	114.6	113.8	112.1	110.4	108.7	107.0	105.3	103.8	102.3	100.8	99.3
100°	145.4	145.0	143.0	141.1	139.3	137.4	136.0	135.1	134.3	133.5	132.6
102.5°	177.3	176.8	175.0	173.3	171.5	169.8	168.8	168.4	168.1	167.8	167.5
105°	226.1	225.4	224.6	223.7	222.9	222.1	221.5	221.4	221.1	220.9	220.7
107.5°	278.9	278.3	278.2	278.0	277.9	277.8	277.6	277.4	277.1	276.9	276.5
110°	315.0	315.4	315.6	315.8	316.1	316.3	316.2	315.8	315.3	314.9	314.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	352.5	352.5	352.9	353.4	353.7	354.1	354.2	354.2	354.1	354.0	353.8
115°	410.9	411.1	411.5	412.0	412.4	412.8	412.9	412.9	412.9	412.9	412.9
117.5°	467.4	468.1	468.4	468.7	469.0	469.3	469.4	469.2	469.0	468.9	468.7
120°	505.7	506.8	507.4	508.0	508.7	509.3	509.2	508.3	507.5	506.6	505.8
122.5°	544.0	544.6	544.9	545.3	545.5	545.8	545.8	545.4	545.1	544.8	544.5
125°	600.1	600.5	600.7	601.0	601.2	601.4	601.4	601.4	601.4	601.4	601.4
127.5°	654.1	654.5	654.8	655.2	655.5	655.9	655.7	655.1	654.4	653.9	653.2
130°	692.0	692.4	692.4	692.4	692.4	692.4	692.1	691.5	690.8	690.2	689.6
132.5°	727.6	728.1	728.2	728.4	728.6	728.7	728.6	728.1	727.7	727.2	726.7
135°	781.1	781.5	781.5	781.5	781.5	781.5	780.8	779.6	778.3	777.1	775.8
137.5°	832.8	833.3	833.0	832.7	832.3	832.0	831.5	831.0	830.4	829.8	829.2
140°	866.5	866.7	866.7	866.7	866.7	866.7	866.5	866.1	865.7	865.2	864.8
142.5°	898.5	898.5	898.7	898.9	899.0	899.2	899.1	898.6	898.2	897.8	897.4
145°	947.0	947.2	947.0	946.8	946.6	946.4	945.8	945.0	944.2	943.3	942.5
147.5°	990.8	991.0	991.2	991.3	991.5	991.6	991.2	990.2	989.2	988.2	987.2
150°	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2	1017.8	1017.0	1016.2	1015.3	1014.5
152.5°	1043.7	1043.3	1043.1	1042.9	1042.8	1042.6	1042.3	1041.7	1041.2	1040.7	1040.2
155°	1079.7	1078.9	1079.0	1079.3	1079.5	1079.7	1079.8	1079.8	1079.8	1079.8	1079.8
157.5°	1111.9	1111.3	1111.3	1111.3	1111.4	1111.4	1111.7	1112.1	1112.4	1112.8	1113.1
160°	1131.6	1131.0	1131.1	1131.4	1131.6	1131.8	1132.0	1132.2	1132.5	1132.7	1132.9
162.5°	1148.8	1147.6	1147.9	1148.1	1148.3	1148.5	1148.8	1149.4	1150.0	1150.5	1151.0
165°	1172.0	1170.8	1171.2	1171.6	1172.0	1172.4	1173.0	1173.6	1174.2	1174.8	1175.5
167.5°	1191.7	1190.4	1190.4	1190.3	1190.3	1190.3	1190.7	1191.6	1192.5	1193.4	1194.3
170°	1202.3	1201.1	1200.9	1200.6	1200.4	1200.2	1200.6	1201.7	1202.7	1203.8	1204.8
172.5°	1210.1	1208.7	1208.6	1208.6	1208.5	1208.4	1208.9	1209.7	1210.6	1211.5	1212.4
175°	1218.6	1217.2	1217.4	1217.6	1217.8	1218.0	1218.6	1219.7	1220.7	1221.8	1222.9
177.5°	1223.7	1222.5	1222.5	1222.5	1222.5	1222.5	1222.9	1223.8	1224.6	1225.4	1226.3
180°	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	792.1	794.4	797.0	801.8	805.8	807.6	811.2	813.8	812.9	816.5	822.6
5°	795.2	803.8	813.7	823.8	835.2	844.7	852.4	860.0	866.0	873.3	884.1
7.5°	794.8	810.0	826.6	844.7	863.5	879.6	894.6	909.9	923.3	938.2	957.5
10°	792.7	813.0	833.6	857.5	881.3	903.8	924.1	943.1	961.2	980.5	1004.9
12.5°	790.4	813.8	838.7	867.3	897.0	924.1	947.9	975.3	997.9	1022.9	1051.2
15°	780.3	811.8	845.7	882.8	918.4	954.8	987.5	1021.2	1052.6	1082.3	1117.9
17.5°	768.8	805.0	845.1	888.9	931.6	975.9	1014.7	1057.1	1089.2	1129.2	1162.2
20°	759.5	798.4	841.2	890.4	939.0	988.1	1030.9	1074.1	1110.3	1150.6	1192.5
22.5°	748.0	790.8	837.2	888.1	939.0	992.7	1040.1	1083.0	1127.8	1173.1	1216.3
25°	729.6	774.0	823.2	879.0	937.3	992.2	1043.0	1096.3	1144.5	1193.7	1232.4
27.5°	707.0	753.7	805.5	863.1	923.0	979.2	1038.9	1095.8	1144.3	1191.6	1225.3
30°	689.0	738.2	788.0	846.4	908.5	968.8	1032.8	1089.6	1140.7	1183.2	1202.2
32.5°	670.5	717.1	768.4	827.5	891.3	956.1	1019.7	1077.7	1124.9	1150.5	1151.0
35°	638.2	682.0	735.3	793.4	858.7	929.1	993.5	1050.6	1079.5	1081.7	1050.6
37.5°	603.1	643.3	693.6	751.7	823.2	893.3	959.0	997.1	1006.8	974.5	917.0
40°	578.0	615.1	663.7	723.3	794.3	866.7	926.6	954.5	944.4	892.0	827.9
42.5°	551.5	586.1	632.9	691.8	763.1	836.2	887.3	902.2	875.3	814.9	739.9
45°	508.5	540.2	586.5	645.9	714.4	782.9	821.6	814.0	769.2	697.6	613.5
47.5°	463.7	494.3	536.0	590.8	661.0	720.2	746.3	723.4	659.7	580.9	512.5
50°	434.0	465.4	503.8	556.1	620.2	677.3	694.1	659.2	588.4	512.7	449.8
52.5°	404.8	431.6	469.2	519.8	581.1	629.3	638.2	598.0	525.0	457.1	401.4
55°	360.4	384.8	416.5	464.1	517.1	558.0	553.3	501.5	435.2	377.2	333.4
57.5°	317.4	335.8	365.1	409.7	456.2	483.7	466.3	422.2	360.4	312.9	276.0
60°	289.0	306.1	333.4	372.4	413.4	428.8	414.3	366.4	317.6	274.1	243.0
62.5°	262.1	277.2	300.7	336.9	369.9	379.1	363.5	321.7	277.7	240.6	214.8
65°	223.0	236.9	257.0	282.7	305.5	309.9	299.8	257.0	223.6	192.6	174.8
67.5°	187.5	196.7	212.3	234.5	246.6	249.2	229.6	202.7	173.3	154.3	140.9
70°	163.7	170.0	184.6	196.7	206.5	206.8	188.7	167.1	144.6	129.1	119.3
72.5°	140.6	146.7	157.8	166.0	173.5	171.0	154.5	137.5	119.3	107.5	100.2
75°	108.5	113.9	119.6	123.4	123.4	120.3	108.2	95.5	85.0	78.0	75.8
77.5°	78.8	83.3	85.2	84.6	83.5	78.5	70.9	62.6	58.9	55.6	53.9
80°	61.9	63.8	64.4	62.8	60.9	55.2	50.1	46.6	43.1	41.9	41.3
82.5°	45.9	47.5	45.9	46.3	42.2	37.4	34.7	33.4	32.0	31.5	30.8
85°	24.5	24.1	23.5	21.9	19.0	18.4	18.1	17.8	17.1	17.4	16.8
87.5°	9.4	9.1	8.6	8.8	9.1	9.0	9.6	9.9	10.3	10.3	11.0
90°	5.1	7.5	9.8	12.1	14.1	15.8	17.4	19.2	20.9	22.1	23.4
92.5°	22.9	25.6	28.2	30.9	32.8	34.0	35.1	36.4	37.5	38.2	39.1
95°	58.7	60.7	62.5	64.4	66.1	67.6	69.1	70.5	72.0	72.6	73.2
97.5°	100.8	102.3	103.8	105.3	107.0	108.7	110.4	112.1	113.8	114.6	115.4
100°	133.5	134.3	135.1	136.0	137.4	139.3	141.1	143.0	145.0	145.4	145.8
102.5°	167.8	168.1	168.4	168.8	169.8	171.5	173.3	175.0	176.8	177.3	177.9
105°	220.9	221.1	221.4	221.5	222.1	222.9	223.7	224.6	225.4	226.1	226.7
107.5°	276.9	277.1	277.4	277.6	277.8	277.9	278.0	278.2	278.3	278.9	279.5
110°	314.9	315.3	315.8	316.2	316.3	316.1	315.8	315.6	315.4	315.0	314.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	354.0	354.1	354.2	354.2	354.1	353.7	353.4	352.9	352.5	352.5	352.4
115°	412.9	412.9	412.9	412.9	412.8	412.4	412.0	411.5	411.1	410.9	410.7
117.5°	468.9	469.0	469.2	469.4	469.3	469.0	468.7	468.4	468.1	467.4	466.7
120°	506.6	507.5	508.3	509.2	509.3	508.7	508.0	507.4	506.8	505.7	504.7
122.5°	544.8	545.1	545.4	545.8	545.8	545.5	545.3	544.9	544.6	544.0	543.2
125°	601.4	601.4	601.4	601.4	601.4	601.2	601.0	600.7	600.5	600.1	599.7
127.5°	653.9	654.4	655.1	655.7	655.9	655.5	655.2	654.8	654.5	654.1	653.7
130°	690.2	690.8	691.5	692.1	692.4	692.4	692.4	692.4	692.4	692.0	691.5
132.5°	727.2	727.7	728.1	728.6	728.7	728.6	728.4	728.2	728.1	727.6	727.2
135°	777.1	778.3	779.6	780.8	781.5	781.5	781.5	781.5	781.5	781.1	780.6
137.5°	829.8	830.4	831.0	831.5	832.0	832.3	832.7	833.0	833.3	832.8	832.3
140°	865.2	865.7	866.1	866.5	866.7	866.7	866.7	866.7	866.7	866.5	866.3
142.5°	897.8	898.2	898.6	899.1	899.2	899.0	898.9	898.7	898.5	898.5	898.5
145°	943.3	944.2	945.0	945.8	946.4	946.6	946.8	947.0	947.2	947.0	946.8
147.5°	988.2	989.2	990.2	991.2	991.6	991.5	991.3	991.2	991.0	990.8	990.7
150°	1015.3	1016.2	1017.0	1017.8	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2
152.5°	1040.7	1041.2	1041.7	1042.3	1042.6	1042.8	1042.9	1043.1	1043.3	1043.7	1044.2
155°	1079.8	1079.8	1079.8	1079.8	1079.7	1079.5	1079.3	1079.0	1078.9	1079.7	1080.6
157.5°	1112.8	1112.4	1112.1	1111.7	1111.4	1111.4	1111.3	1111.3	1111.3	1111.9	1112.6
160°	1132.7	1132.5	1132.2	1132.0	1131.8	1131.6	1131.4	1131.1	1131.0	1131.6	1132.2
162.5°	1150.5	1150.0	1149.4	1148.8	1148.5	1148.3	1148.1	1147.9	1147.6	1148.8	1149.9
165°	1174.8	1174.2	1173.6	1173.0	1172.4	1172.0	1171.6	1171.2	1170.8	1172.0	1173.3
167.5°	1193.4	1192.5	1191.6	1190.7	1190.3	1190.3	1190.3	1190.4	1190.4	1191.7	1192.9
170°	1203.8	1202.7	1201.7	1200.6	1200.2	1200.4	1200.6	1200.9	1201.1	1202.3	1203.6
172.5°	1211.5	1210.6	1209.7	1208.9	1208.4	1208.5	1208.6	1208.6	1208.7	1210.1	1211.5
175°	1221.8	1220.7	1219.7	1218.6	1218.0	1217.8	1217.6	1217.4	1217.2	1218.6	1220.1
177.5°	1225.4	1224.6	1223.8	1222.9	1222.5	1222.5	1222.5	1222.5	1222.5	1223.7	1224.8
180°	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	825.9	827.0	827.7	830.2	830.5	832.7	830.5
5°	894.2	898.7	905.6	912.6	913.3	917.7	909.8
7.5°	970.9	981.1	987.6	998.8	1003.3	1006.1	1001.5
10°	1023.7	1033.1	1050.0	1058.3	1066.5	1067.7	1064.0
12.5°	1074.6	1089.7	1103.0	1118.7	1118.3	1129.4	1125.4
15°	1142.6	1158.1	1176.6	1194.0	1200.4	1200.4	1205.4
17.5°	1191.1	1219.6	1238.6	1252.3	1267.3	1269.9	1268.1
20°	1223.8	1254.6	1274.9	1292.7	1302.8	1305.7	1305.7
22.5°	1248.2	1274.4	1294.2	1310.2	1318.6	1321.9	1320.9
25°	1265.1	1287.6	1299.7	1304.4	1306.6	1305.9	1300.0
27.5°	1241.9	1241.0	1233.3	1218.7	1207.8	1201.1	1193.5
30°	1197.8	1181.3	1162.3	1141.3	1114.4	1093.7	1087.4
32.5°	1132.1	1095.0	1062.8	1027.9	998.9	978.3	969.6
35°	1004.9	946.2	898.4	856.5	826.1	807.0	800.6
37.5°	854.1	797.3	738.0	697.4	672.1	652.9	645.7
40°	758.1	696.3	644.6	606.5	580.5	561.8	561.5
42.5°	670.6	611.6	562.9	535.5	507.4	495.0	495.0
45°	549.1	501.8	460.6	439.0	422.2	412.1	409.2
47.5°	454.6	415.6	388.1	370.9	357.2	350.7	346.5
50°	401.6	367.4	345.4	330.5	322.9	314.7	314.1
52.5°	357.4	329.8	312.7	300.6	291.0	286.0	286.2
55°	300.4	278.5	266.4	257.2	249.6	245.8	244.3
57.5°	253.1	236.7	227.9	219.5	216.2	213.2	212.4
60°	223.6	212.5	204.3	197.6	192.9	191.9	191.6
62.5°	199.3	187.7	182.0	176.8	173.3	171.9	171.3
65°	164.3	155.7	150.7	146.6	145.3	143.1	142.8
67.5°	132.5	127.3	124.0	121.2	119.4	119.3	119.3
70°	112.9	110.1	107.2	105.7	104.7	104.0	104.0
72.5°	96.2	94.1	91.7	90.9	90.7	90.1	89.8
75°	73.3	71.1	71.3	69.8	68.5	66.9	66.0
77.5°	51.9	50.4	50.1	49.9	48.8	48.6	49.1
80°	40.3	38.7	38.4	38.7	38.4	37.4	37.4
82.5°	30.7	29.4	29.0	28.8	28.5	28.8	28.3
85°	16.5	15.9	15.9	15.9	16.5	16.1	15.9
87.5°	10.8	10.8	11.2	11.0	11.1	10.9	11.3
90°	24.6	25.9	26.7	27.1	27.6	28.0	28.5
92.5°	39.8	40.5	41.0	41.3	41.6	41.8	42.1
95°	73.9	74.5	74.8	74.8	74.8	74.8	74.8
97.5°	116.1	116.9	117.2	117.2	117.2	117.2	117.2
100°	146.2	146.6	146.8	146.8	146.8	146.8	146.8
102.5°	178.6	179.1	179.4	179.7	179.9	180.0	180.2
105°	227.3	228.0	228.6	229.3	229.8	230.5	231.1
107.5°	280.1	280.6	281.0	280.9	280.9	280.8	280.8
110°	314.1	313.7	313.8	314.5	315.1	315.8	316.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	352.3	352.2	352.2	352.4	352.5	352.6	352.8
115°	410.4	410.3	410.0	409.9	409.6	409.4	409.2
117.5°	465.9	465.2	464.7	464.2	463.8	463.4	463.0
120°	503.6	502.6	502.2	502.6	503.0	503.5	503.9
122.5°	542.5	541.8	541.0	540.3	539.6	538.7	538.0
125°	599.2	598.8	598.4	598.0	597.6	597.1	596.7
127.5°	653.3	652.8	652.5	652.2	651.8	651.4	651.1
130°	691.1	690.7	690.1	689.3	688.4	687.5	686.7
132.5°	726.8	726.4	725.9	725.6	725.3	725.0	724.6
135°	780.2	779.8	779.3	778.6	778.0	777.3	776.7
137.5°	831.7	831.2	831.0	831.1	831.2	831.4	831.4
140°	866.1	865.8	865.7	865.4	865.2	865.0	864.8
142.5°	898.4	898.4	898.3	898.3	898.2	898.2	898.1
145°	946.6	946.4	945.9	945.3	944.7	944.0	943.5
147.5°	990.5	990.3	990.1	989.9	989.7	989.4	989.3
150°	1018.2	1018.2	1018.1	1017.9	1017.7	1017.5	1017.3
152.5°	1044.8	1045.3	1045.3	1044.7	1044.2	1043.6	1043.1
155°	1081.4	1082.2	1082.2	1081.4	1080.6	1079.7	1078.9
157.5°	1113.1	1113.8	1113.8	1113.0	1112.3	1111.6	1110.9
160°	1132.9	1133.5	1133.3	1132.2	1131.1	1130.2	1129.1
162.5°	1151.0	1152.2	1152.3	1151.2	1150.1	1149.1	1148.0
165°	1174.5	1175.8	1176.0	1175.2	1174.4	1173.5	1172.6
167.5°	1194.3	1195.5	1195.5	1194.2	1192.9	1191.6	1190.3
170°	1204.8	1206.2	1206.0	1204.5	1203.1	1201.6	1200.1
172.5°	1212.9	1214.4	1214.4	1212.8	1211.4	1209.9	1208.4
175°	1221.6	1223.0	1223.0	1221.6	1220.1	1218.6	1217.2
177.5°	1226.0	1227.2	1227.1	1225.7	1224.4	1223.0	1221.7
180°	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7

(END OF REPORT)