

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: P331669-930

Luminaire Tested: **SA2XXRDIP-C485D1080U930-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331669-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C485D1080U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

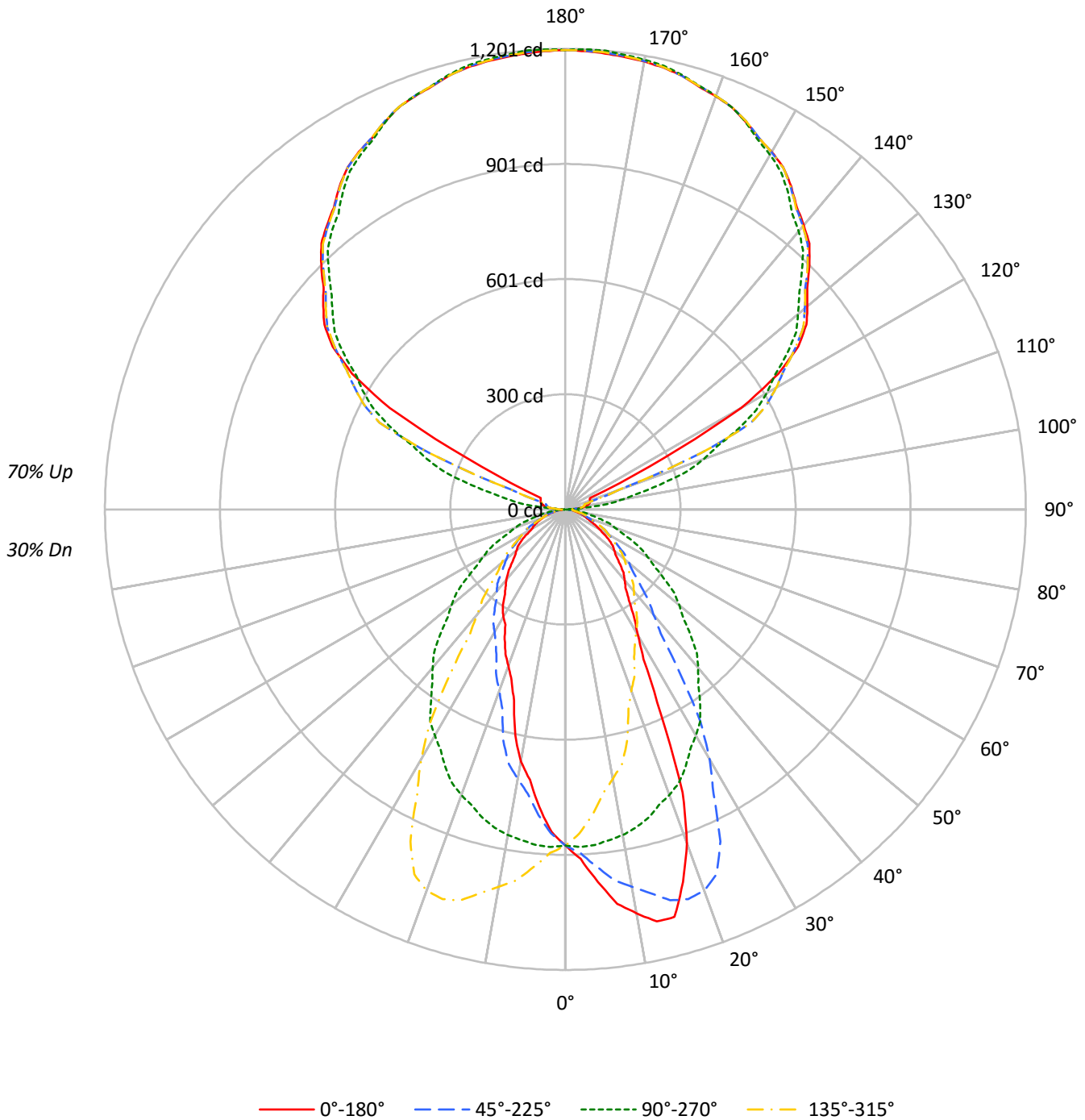
Lumens per Lamp: N/A
Luminaire Lumens: 5027.4 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30				
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26				
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	29	28	23				
3	79	70	63	58	70	63	57	53	50	46	43	39	36	34	28	26	25	20				
4	72	62	55	49	65	56	50	45	45	41	37	35	32	29	25	23	22	18				
5	66	55	48	42	59	50	44	39	40	36	32	31	28	26	23	21	19	16				
6	61	50	42	37	55	45	39	34	37	32	28	28	25	23	21	19	17	14				
7	57	45	38	32	51	41	34	30	33	29	25	26	23	20	19	17	16	13				
8	52	41	34	29	47	37	31	27	30	26	22	24	21	18	18	16	14	12				
9	49	37	30	26	44	34	28	24	28	23	20	22	19	16	17	14	13	11				
10	46	34	27	23	41	31	25	21	26	21	18	20	17	15	15	13	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14149	14149	14149	14149
5°	15801	14237	12624	14237
10°	17531	14137	10942	14137
15°	18392	13929	8622	13929
20°	15945	13622	7459	13622
25°	10457	13201	6661	13201
30°	7040	12693	6027	12693
35°	5702	12051	5436	12051
40°	5069	11352	5031	11352
45°	4590	10533	4491	10533
50°	4175	9718	4160	9718
55°	3924	8819	3873	8819
60°	3284	7992	3242	7992
65°	2770	7259	3140	7259
70°	2559	6482	2960	6482
75°	2395	5639	2739	5639
80°	2204	4640	2436	4640
85°	2019	3668	2149	3668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	1.7
10°-20°	231.5	4.6
20°-30°	298.2	5.9
30°-40°	283.4	5.6
40°-50°	242.8	4.8
50°-60°	184.9	3.7
60°-70°	116.9	2.3
70°-80°	58.4	1.2
80°-90°	18.1	0.4
90°-100°	40.0	0.8
100°-110°	146.5	2.9
110°-120°	391.7	7.8
120°-130°	646.5	12.9
130°-140°	687.6	13.7
140°-150°	639.1	12.7
150°-160°	513.8	10.2
160°-170°	331.1	6.6
170°-180°	114.0	2.3
0°-30°	612.8	12.2
0°-40°	896.2	17.8
0°-60°	1323.9	26.3
0°-90°	1517.3	30.2
90°-120°	578.1	11.5
90°-150°	2551.3	50.7
90°-180°	3510.0	69.8
0°-180°	5027.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	876	876	876	876	876	
5°	975	878	779	878	975	96
15°	1100	833	516	833	1100	297
25°	587	741	374	741	587	279
35°	289	611	276	611	289	185
45°	201	461	197	461	201	156
55°	139	313	138	313	139	122
65°	72	190	82	190	72	74
75°	38	90	44	90	38	41
85°	11	20	12	20	11	12
90°	23	1	23	1	23	11
95°	37	56	37	56	37	35
105°	66	264	66	264	66	68
115°	71	498	71	498	71	178
125°	741	705	741	705	741	641
135°	900	872	900	872	900	694
145°	1027	1012	1027	1012	1027	642
155°	1115	1114	1115	1114	1115	514
165°	1171	1174	1171	1174	1171	331
175°	1193	1200	1193	1200	1193	114
180°	1198	1198	1198	1198	1198	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	911.8	912.6	913.3	911.6	911.6	910.1	906.9	904.5	897.6	896.7	896.7
5°	974.9	974.3	975.5	971.5	966.0	964.8	959.0	951.5	943.5	934.7	932.9
7.5°	1037.6	1036.7	1034.3	1033.6	1029.4	1020.2	1010.9	1000.9	987.8	974.9	968.5
10°	1069.3	1079.3	1073.3	1062.6	1064.7	1050.4	1042.8	1029.7	1018.7	999.6	995.3
12.5°	1100.4	1104.4	1102.4	1096.4	1093.7	1083.8	1073.5	1062.1	1041.9	1024.7	1009.7
15°	1100.3	1106.1	1107.7	1105.8	1107.3	1106.7	1101.2	1091.8	1074.2	1055.2	1038.9
17.5°	1019.1	1023.1	1033.1	1039.8	1048.4	1066.4	1075.3	1078.8	1076.1	1065.4	1053.8
20°	928.0	921.3	949.3	963.6	975.8	1006.2	1032.4	1042.4	1058.6	1058.3	1055.2
22.5°	798.9	800.5	827.0	844.0	879.6	910.0	939.9	977.7	1008.9	1029.6	1041.6
25°	587.0	598.6	625.1	648.2	687.8	744.4	795.9	855.6	911.8	956.3	998.7
27.5°	440.8	441.7	462.7	484.1	507.6	554.0	618.8	690.1	770.4	836.6	912.8
30°	377.6	375.7	384.6	397.6	417.8	453.6	502.4	572.4	652.5	752.4	841.2
32.5°	332.7	332.8	339.5	349.2	365.8	390.0	423.5	480.3	556.0	654.2	758.4
35°	289.3	288.9	293.8	300.8	307.8	323.3	346.2	376.0	428.1	519.8	626.3
37.5°	258.0	259.4	261.8	266.2	273.9	282.5	296.3	316.3	353.4	407.6	497.1
40°	240.5	241.2	244.5	248.2	252.7	259.4	270.7	286.8	313.9	357.1	422.6
42.5°	224.5	225.0	227.5	230.8	234.4	241.2	250.5	264.4	286.4	320.1	374.1
45°	201.0	201.0	203.1	204.6	208.6	214.7	222.3	233.8	249.1	274.0	310.0
47.5°	178.9	179.0	180.3	183.0	185.5	190.2	197.7	207.2	218.3	237.6	268.2
50°	166.2	166.6	167.5	169.6	171.1	175.4	181.2	189.4	201.0	215.9	241.4
52.5°	156.0	155.8	156.9	157.9	158.9	162.0	166.3	173.6	183.9	196.9	218.1
55°	139.4	138.2	140.1	141.5	142.5	143.7	146.1	150.7	159.6	170.5	186.3
57.5°	118.7	118.2	119.5	120.9	123.8	127.1	129.1	132.1	136.6	144.5	160.2
60°	101.7	101.7	104.4	105.3	108.7	112.9	117.2	119.7	124.3	129.4	141.0
62.5°	86.6	86.8	88.1	89.0	90.9	96.1	102.2	107.5	111.8	116.8	124.4
65°	72.5	73.1	73.1	73.7	74.9	76.1	78.5	82.8	90.4	97.4	103.2
67.5°	61.5	61.7	61.9	62.5	62.8	64.1	65.1	67.0	68.7	75.4	82.6
70°	54.2	55.1	54.8	55.4	55.7	56.3	57.6	58.5	61.2	62.7	67.0
72.5°	47.4	48.0	48.0	48.3	49.2	49.2	50.2	51.1	52.9	54.2	56.5
75°	38.4	38.1	38.4	39.0	39.3	39.5	39.5	40.8	41.7	43.0	44.4
77.5°	29.6	29.9	29.8	29.9	29.9	30.5	30.4	31.0	31.9	32.5	33.3
80°	23.7	24.1	23.7	24.1	24.4	24.6	24.4	24.6	25.6	26.2	26.2
82.5°	18.4	18.4	18.7	18.7	18.8	18.8	19.2	19.3	20.0	19.8	20.1
85°	10.9	10.7	10.7	10.7	10.9	11.3	10.9	10.9	11.3	11.3	11.3
87.5°	8.6	8.7	8.6	8.6	8.5	8.4	8.2	8.2	7.8	7.8	7.3
90°	23.4	23.0	22.7	22.3	21.9	21.2	20.2	19.2	18.3	17.4	15.8
92.5°	23.4	23.2	22.9	22.7	22.5	22.1	21.6	21.1	20.6	20.1	19.3
95°	37.3	37.4	37.7	37.8	38.1	37.7	36.7	35.7	34.7	33.8	32.4
97.5°	49.7	49.5	49.3	49.1	48.8	48.3	47.5	46.8	46.0	45.2	42.2
100°	58.0	57.7	57.3	56.9	56.5	55.6	54.1	52.5	51.0	49.4	46.1
102.5°	62.2	61.7	61.1	60.6	60.1	58.8	56.8	54.8	52.8	50.8	78.2
105°	65.9	65.1	64.3	63.6	62.8	61.3	59.2	57.1	55.0	52.8	105.4
107.5°	67.8	67.0	66.2	65.5	64.7	65.4	67.5	69.7	71.8	74.0	137.1
110°	68.5	67.7	66.9	66.1	65.4	74.6	93.9	113.2	132.4	151.6	207.3



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	897.2	895.3	893.6	889.2	887.0	882.1	881.3	881.1	874.8	868.7	867.0
5°	928.0	923.2	915.8	907.3	898.5	889.3	883.2	878.4	866.2	854.6	847.9
7.5°	959.0	948.6	936.0	919.8	906.4	891.3	880.1	870.0	852.7	836.2	825.0
10°	982.2	965.2	948.4	926.2	908.8	891.8	876.0	862.3	842.8	820.8	805.3
12.5°	996.5	977.8	954.7	933.0	910.5	888.8	867.6	850.0	827.2	804.5	786.0
15°	1016.0	995.9	967.9	936.9	907.9	879.6	855.2	833.3	803.5	776.4	753.8
17.5°	1031.9	1004.2	974.1	938.2	904.7	868.8	837.4	809.3	776.2	743.5	717.0
20°	1037.0	1009.6	974.9	939.0	899.4	857.0	823.3	792.8	757.2	721.5	691.1
22.5°	1033.8	1012.5	973.9	930.9	890.4	846.1	808.0	772.6	733.1	696.8	661.5
25°	1012.4	1005.0	968.5	921.6	875.3	823.9	779.8	741.0	696.0	657.0	618.6
27.5°	962.2	978.0	955.4	905.4	853.9	798.7	749.2	705.2	658.4	614.5	576.3
30°	914.0	950.2	940.4	894.2	836.7	782.4	726.8	680.8	630.9	585.8	548.0
32.5°	848.0	907.8	917.4	878.6	819.1	759.5	701.2	655.4	603.3	555.8	519.0
35°	742.9	832.4	873.5	848.8	789.1	725.0	664.6	611.4	559.0	512.1	475.6
37.5°	617.5	739.4	808.0	809.7	754.9	688.1	622.5	569.6	515.9	469.9	430.4
40°	536.1	668.3	757.5	777.3	731.0	658.8	592.5	538.6	486.2	441.2	395.8
42.5°	463.1	594.8	704.4	738.8	702.1	630.4	563.8	507.4	456.5	413.8	367.5
45°	374.5	489.6	610.4	672.0	651.6	585.1	514.9	461.3	413.4	376.6	332.2
47.5°	315.9	397.1	514.0	597.2	596.8	536.2	467.1	415.7	371.4	336.9	300.8
50°	282.5	353.2	452.2	546.5	554.4	503.6	437.8	386.9	345.6	309.3	280.4
52.5°	252.6	310.8	399.7	490.2	512.7	468.7	405.0	358.0	317.8	284.5	259.7
55°	213.4	258.4	326.1	410.7	444.8	413.8	357.1	313.3	280.7	252.7	231.4
57.5°	180.5	214.3	268.6	336.7	376.4	356.9	310.2	274.6	246.7	221.4	204.6
60°	159.9	187.5	233.5	290.5	334.3	320.6	280.7	247.5	223.8	201.9	186.1
62.5°	140.4	164.2	203.6	249.8	290.0	284.3	251.8	223.9	203.1	183.1	169.7
65°	112.9	130.3	161.0	197.3	229.6	232.3	208.9	190.0	171.4	155.6	143.7
67.5°	89.9	101.3	122.9	153.4	177.7	186.3	171.9	157.5	142.8	130.5	120.3
70°	75.8	85.0	100.8	125.5	147.7	156.8	148.5	137.3	124.5	114.5	105.7
72.5°	61.5	70.4	82.0	100.1	119.2	129.1	126.2	118.1	107.7	99.4	91.1
75°	46.3	49.0	56.9	69.1	84.1	92.5	94.7	90.4	82.2	75.8	70.9
77.5°	34.2	35.9	39.6	46.1	55.8	63.3	66.5	66.0	60.3	56.7	52.1
80°	27.4	28.3	30.2	32.9	40.2	47.8	49.9	49.9	46.0	44.4	39.9
82.5°	20.8	21.5	22.6	24.1	27.6	34.2	36.5	37.0	34.5	32.5	28.9
85°	11.9	11.6	12.1	13.1	13.7	15.5	19.2	19.8	19.2	16.7	15.8
87.5°	7.0	6.9	6.6	6.0	5.8	5.6	6.4	7.3	6.7	6.4	6.3
90°	14.3	12.7	11.2	9.4	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	18.6	17.8	17.0	16.7	17.0	17.1	17.3	17.5	17.3	17.1	17.0
95°	31.1	29.8	28.4	30.9	37.3	43.6	50.0	56.3	50.0	43.6	37.3
97.5°	39.0	35.9	32.8	40.2	58.0	76.0	93.9	111.8	93.9	76.0	58.0
100°	42.9	39.5	36.3	47.9	74.3	100.6	127.0	153.4	127.0	100.6	74.3
102.5°	105.6	133.0	160.4	176.8	182.4	188.0	193.6	199.2	193.6	188.0	182.4
105°	158.0	210.6	263.2	286.6	280.8	275.0	269.3	263.5	269.3	275.0	280.8
107.5°	200.2	263.2	326.3	355.5	350.7	346.1	341.4	336.8	341.4	346.1	350.7
110°	263.0	318.6	374.3	400.1	396.1	392.1	388.0	383.9	388.0	392.1	396.1



TEST NUMBER: P331669-930

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CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P331669-930

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	863.8	862.1	858.9	854.1	851.2	846.0	842.6	844.6	845.1	844.6	844.1
5°	840.7	834.2	825.4	816.8	808.9	800.5	795.6	793.4	789.1	786.8	785.5
7.5°	812.5	801.5	789.0	774.2	761.6	748.4	741.6	738.3	729.5	724.8	720.6
10°	791.6	774.2	761.7	742.2	730.4	713.1	701.2	701.5	689.6	682.9	678.0
12.5°	768.5	749.4	728.6	711.1	694.6	680.7	666.3	660.6	647.9	641.5	628.4
15°	730.1	707.8	686.0	662.2	645.5	623.9	603.2	577.9	557.5	539.8	534.9
17.5°	688.2	660.7	638.7	610.8	582.1	545.8	521.8	507.1	494.8	485.5	478.6
20°	659.5	631.4	608.1	566.0	527.3	502.6	485.0	473.8	461.0	450.9	445.4
22.5°	629.2	600.1	568.1	521.1	491.1	471.2	455.5	442.5	433.9	426.1	421.1
25°	586.4	554.4	501.7	469.4	445.2	424.4	413.4	405.5	396.4	385.7	380.9
27.5°	541.1	490.2	452.4	428.4	405.2	391.8	381.9	370.1	361.9	357.1	352.0
30°	507.2	456.4	426.9	400.6	384.3	369.3	357.8	351.1	343.2	334.9	331.6
32.5°	469.4	428.8	400.6	378.8	362.1	349.4	340.2	329.4	323.7	318.6	311.6
35°	422.6	391.8	366.0	348.3	332.5	322.1	311.4	305.1	294.7	290.5	287.7
37.5°	382.9	356.2	336.9	318.3	305.7	294.3	287.8	277.6	273.1	267.2	261.4
40°	360.4	334.3	315.8	300.5	286.5	277.9	269.8	261.5	254.9	252.1	245.1
42.5°	337.6	316.3	297.7	281.0	271.7	262.6	252.3	246.2	239.2	234.8	230.5
45°	306.0	287.1	271.3	257.6	247.2	237.8	231.1	221.0	217.1	208.2	204.6
47.5°	278.2	260.7	245.6	232.5	222.4	216.3	206.5	198.6	192.3	186.9	182.2
50°	258.4	243.9	229.3	217.7	208.6	199.7	189.7	185.7	175.9	173.3	170.5
52.5°	240.4	226.6	213.2	201.9	192.7	184.2	175.3	170.2	163.5	160.8	158.8
55°	215.2	201.9	189.1	179.0	169.9	161.0	155.6	149.2	146.1	144.0	141.5
57.5°	189.9	177.9	168.0	157.9	148.7	141.7	135.3	131.5	128.3	125.6	122.6
60°	173.8	162.2	153.4	144.0	134.6	128.8	123.9	119.4	115.7	111.5	110.2
62.5°	156.8	146.7	138.6	129.4	121.2	115.9	111.3	107.0	102.6	96.4	94.7
65°	133.4	125.5	116.9	109.3	102.0	96.9	90.1	85.3	83.4	82.8	82.5
67.5°	112.2	104.7	97.3	89.6	82.9	78.1	74.7	73.9	72.7	72.3	71.5
70°	98.0	91.1	83.7	76.4	70.0	69.1	67.9	66.7	65.1	64.6	63.9
72.5°	85.4	78.1	70.8	65.0	62.2	61.1	59.8	58.6	57.6	57.0	56.7
75°	65.5	58.8	53.9	51.8	50.2	49.3	47.5	46.6	46.0	45.1	44.8
77.5°	47.1	43.4	41.1	39.8	38.2	37.2	36.2	35.2	34.6	34.4	33.9
80°	36.0	34.1	32.6	30.7	30.2	28.9	28.6	27.7	28.0	27.1	27.1
82.5°	27.9	25.6	24.3	23.5	22.8	21.9	21.5	21.1	21.2	20.5	20.5
85°	14.3	13.7	13.1	12.5	12.5	11.6	11.9	11.6	11.6	10.9	10.7
87.5°	6.5	6.6	6.4	6.8	7.1	7.1	7.3	7.3	7.4	7.7	7.5
90°	9.4	11.2	12.7	14.3	15.8	17.4	18.3	19.2	20.2	21.2	21.9
92.5°	16.7	17.0	17.8	18.6	19.3	20.1	20.6	21.1	21.6	22.1	22.5
95°	30.9	28.4	29.8	31.1	32.4	33.8	34.7	35.7	36.7	37.7	38.1
97.5°	40.2	32.8	35.9	39.0	42.2	45.2	46.0	46.8	47.5	48.3	48.8
100°	47.9	36.3	39.5	42.9	46.1	49.4	51.0	52.5	54.1	55.6	56.5
102.5°	176.8	160.4	133.0	105.6	78.2	50.8	52.8	54.8	56.8	58.8	60.1
105°	286.6	263.2	210.6	158.0	105.4	52.8	55.0	57.1	59.2	61.3	62.8
107.5°	355.5	326.3	263.2	200.2	137.1	74.0	71.8	69.7	67.5	65.4	64.7
110°	400.1	374.3	318.6	263.0	207.3	151.6	132.4	113.2	93.9	74.6	65.4



TEST NUMBER: P331669-930

CATALOG NUMBER: SA2XXRDIP-C485D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P331669-930
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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	841.4	841.9	841.1	841.6	841.1	841.9	841.4	844.1	844.6	845.1	844.6
5°	784.0	780.3	779.8	778.9	779.8	780.3	784.0	785.5	786.8	789.1	793.4
7.5°	715.4	714.9	713.4	711.2	713.4	714.9	715.4	720.6	724.8	729.5	738.3
10°	671.3	669.8	669.5	667.4	669.5	669.8	671.3	678.0	682.9	689.6	701.5
12.5°	619.7	609.9	608.9	603.6	608.9	609.9	619.7	628.4	641.5	647.9	660.6
15°	527.7	525.8	519.8	515.8	519.8	525.8	527.7	534.9	539.8	557.5	577.9
17.5°	475.0	469.0	467.2	466.4	467.2	469.0	475.0	478.6	485.5	494.8	507.1
20°	441.2	435.7	434.8	434.1	434.8	435.7	441.2	445.4	450.9	461.0	473.8
22.5°	417.8	412.1	409.7	407.9	409.7	412.1	417.8	421.1	426.1	433.9	442.5
25°	377.8	375.7	374.5	373.9	374.5	375.7	377.8	380.9	385.7	396.4	405.5
27.5°	346.6	341.9	341.0	339.4	341.0	341.9	346.6	352.0	357.1	361.9	370.1
30°	328.8	327.3	325.1	323.3	325.1	327.3	328.8	331.6	334.9	343.2	351.1
32.5°	307.9	306.6	304.7	303.9	304.7	306.6	307.9	311.6	318.6	323.7	329.4
35°	284.7	280.4	278.6	275.8	278.6	280.4	284.7	287.7	290.5	294.7	305.1
37.5°	260.2	257.9	255.4	256.2	255.4	257.9	260.2	261.4	267.2	273.1	277.6
40°	241.2	239.6	239.0	238.7	239.0	239.6	241.2	245.1	252.1	254.9	261.5
42.5°	226.0	221.8	220.2	220.2	220.2	221.8	226.0	230.5	234.8	239.2	246.2
45°	203.1	199.1	196.4	196.7	196.4	199.1	203.1	204.6	208.2	217.1	221.0
47.5°	179.6	179.4	177.7	178.3	177.7	179.4	179.6	182.2	186.9	192.3	198.6
50°	168.4	166.6	165.3	165.6	165.3	166.6	168.4	170.5	173.3	175.9	185.7
52.5°	157.7	156.0	155.1	156.4	155.1	156.0	157.7	158.8	160.8	163.5	170.2
55°	140.1	138.2	137.9	137.6	137.9	138.2	140.1	141.5	144.0	146.1	149.2
57.5°	120.4	119.2	117.3	116.6	117.3	119.2	120.4	122.6	125.6	128.3	131.5
60°	106.2	103.8	100.8	100.4	100.8	103.8	106.2	110.2	111.5	115.7	119.4
62.5°	93.4	92.9	92.3	92.2	92.3	92.9	93.4	94.7	96.4	102.6	107.0
65°	81.9	81.6	81.9	82.2	81.9	81.6	81.9	82.5	82.8	83.4	85.3
67.5°	71.3	70.8	70.3	70.5	70.3	70.8	71.3	71.5	72.3	72.7	73.9
70°	63.3	63.0	62.7	62.7	62.7	63.0	63.3	63.9	64.6	65.1	66.7
72.5°	55.5	55.4	55.2	55.0	55.2	55.4	55.5	56.7	57.0	57.6	58.6
75°	44.4	43.9	43.9	43.9	43.9	43.9	44.4	44.8	45.1	46.0	46.6
77.5°	33.8	33.6	33.3	33.0	33.3	33.6	33.8	33.9	34.4	34.6	35.2
80°	26.8	26.5	26.2	26.2	26.2	26.5	26.8	27.1	27.1	28.0	27.7
82.5°	20.5	20.1	20.1	19.8	20.1	20.1	20.5	20.5	20.5	21.2	21.1
85°	10.9	11.3	10.9	11.6	10.9	11.3	10.9	10.7	10.9	11.6	11.6
87.5°	7.6	7.4	7.7	7.6	7.7	7.4	7.6	7.5	7.7	7.4	7.3
90°	22.3	22.7	23.0	23.4	23.0	22.7	22.3	21.9	21.2	20.2	19.2
92.5°	22.7	22.9	23.2	23.4	23.2	22.9	22.7	22.5	22.1	21.6	21.1
95°	37.8	37.7	37.4	37.3	37.4	37.7	37.8	38.1	37.7	36.7	35.7
97.5°	49.1	49.3	49.5	49.7	49.5	49.3	49.1	48.8	48.3	47.5	46.8
100°	56.9	57.3	57.7	58.0	57.7	57.3	56.9	56.5	55.6	54.1	52.5
102.5°	60.6	61.1	61.7	62.2	61.7	61.1	60.6	60.1	58.8	56.8	54.8
105°	63.6	64.3	65.1	65.9	65.1	64.3	63.6	62.8	61.3	59.2	57.1
107.5°	65.5	66.2	67.0	67.8	67.0	66.2	65.5	64.7	65.4	67.5	69.7
110°	66.1	66.9	67.7	68.5	67.7	66.9	66.1	65.4	74.6	93.9	113.2



TEST NUMBER: P331669-930

CATALOG NUMBER: SA2XXRDIP-C485D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P331669-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	842.6	846.0	851.2	854.1	858.9	862.1	863.8	867.0	868.7	874.8	881.1
5°	795.6	800.5	808.9	816.8	825.4	834.2	840.7	847.9	854.6	866.2	878.4
7.5°	741.6	748.4	761.6	774.2	789.0	801.5	812.5	825.0	836.2	852.7	870.0
10°	701.2	713.1	730.4	742.2	761.7	774.2	791.6	805.3	820.8	842.8	862.3
12.5°	666.3	680.7	694.6	711.1	728.6	749.4	768.5	786.0	804.5	827.2	850.0
15°	603.2	623.9	645.5	662.2	686.0	707.8	730.1	753.8	776.4	803.5	833.3
17.5°	521.8	545.8	582.1	610.8	638.7	660.7	688.2	717.0	743.5	776.2	809.3
20°	485.0	502.6	527.3	566.0	608.1	631.4	659.5	691.1	721.5	757.2	792.8
22.5°	455.5	471.2	491.1	521.1	568.1	600.1	629.2	661.5	696.8	733.1	772.6
25°	413.4	424.4	445.2	469.4	501.7	554.4	586.4	618.6	657.0	696.0	741.0
27.5°	381.9	391.8	405.2	428.4	452.4	490.2	541.1	576.3	614.5	658.4	705.2
30°	357.8	369.3	384.3	400.6	426.9	456.4	507.2	548.0	585.8	630.9	680.8
32.5°	340.2	349.4	362.1	378.8	400.6	428.8	469.4	519.0	555.8	603.3	655.4
35°	311.4	322.1	332.5	348.3	366.0	391.8	422.6	475.6	512.1	559.0	611.4
37.5°	287.8	294.3	305.7	318.3	336.9	356.2	382.9	430.4	469.9	515.9	569.6
40°	269.8	277.9	286.5	300.5	315.8	334.3	360.4	395.8	441.2	486.2	538.6
42.5°	252.3	262.6	271.7	281.0	297.7	316.3	337.6	367.5	413.8	456.5	507.4
45°	231.1	237.8	247.2	257.6	271.3	287.1	306.0	332.2	376.6	413.4	461.3
47.5°	206.5	216.3	222.4	232.5	245.6	260.7	278.2	300.8	336.9	371.4	415.7
50°	189.7	199.7	208.6	217.7	229.3	243.9	258.4	280.4	309.3	345.6	386.9
52.5°	175.3	184.2	192.7	201.9	213.2	226.6	240.4	259.7	284.5	317.8	358.0
55°	155.6	161.0	169.9	179.0	189.1	201.9	215.2	231.4	252.7	280.7	313.3
57.5°	135.3	141.7	148.7	157.9	168.0	177.9	189.9	204.6	221.4	246.7	274.6
60°	123.9	128.8	134.6	144.0	153.4	162.2	173.8	186.1	201.9	223.8	247.5
62.5°	111.3	115.9	121.2	129.4	138.6	146.7	156.8	169.7	183.1	203.1	223.9
65°	90.1	96.9	102.0	109.3	116.9	125.5	133.4	143.7	155.6	171.4	190.0
67.5°	74.7	78.1	82.9	89.6	97.3	104.7	112.2	120.3	130.5	142.8	157.5
70°	67.9	69.1	70.0	76.4	83.7	91.1	98.0	105.7	114.5	124.5	137.3
72.5°	59.8	61.1	62.2	65.0	70.8	78.1	85.4	91.1	99.4	107.7	118.1
75°	47.5	49.3	50.2	51.8	53.9	58.8	65.5	70.9	75.8	82.2	90.4
77.5°	36.2	37.2	38.2	39.8	41.1	43.4	47.1	52.1	56.7	60.3	66.0
80°	28.6	28.9	30.2	30.7	32.6	34.1	36.0	39.9	44.4	46.0	49.9
82.5°	21.5	21.9	22.8	23.5	24.3	25.6	27.9	28.9	32.5	34.5	37.0
85°	11.9	11.6	12.5	12.5	13.1	13.7	14.3	15.8	16.7	19.2	19.8
87.5°	7.3	7.1	7.1	6.8	6.4	6.6	6.5	6.3	6.4	6.7	7.3
90°	18.3	17.4	15.8	14.3	12.7	11.2	9.4	7.3	5.1	3.0	0.9
92.5°	20.6	20.1	19.3	18.6	17.8	17.0	16.7	17.0	17.1	17.3	17.5
95°	34.7	33.8	32.4	31.1	29.8	28.4	30.9	37.3	43.6	50.0	56.3
97.5°	46.0	45.2	42.2	39.0	35.9	32.8	40.2	58.0	76.0	93.9	111.8
100°	51.0	49.4	46.1	42.9	39.5	36.3	47.9	74.3	100.6	127.0	153.4
102.5°	52.8	50.8	78.2	105.6	133.0	160.4	176.8	182.4	188.0	193.6	199.2
105°	55.0	52.8	105.4	158.0	210.6	263.2	286.6	280.8	275.0	269.3	263.5
107.5°	71.8	74.0	137.1	200.2	263.2	326.3	355.5	350.7	346.1	341.4	336.8
110°	132.4	151.6	207.3	263.0	318.6	374.3	400.1	396.1	392.1	388.0	383.9



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	881.3	882.1	887.0	889.2	893.6	895.3	897.2	896.7	896.7	897.6	904.5
5°	883.2	889.3	898.5	907.3	915.8	923.2	928.0	932.9	934.7	943.5	951.5
7.5°	880.1	891.3	906.4	919.8	936.0	948.6	959.0	968.5	974.9	987.8	1000.9
10°	876.0	891.8	908.8	926.2	948.4	965.2	982.2	995.3	999.6	1018.7	1029.7
12.5°	867.6	888.8	910.5	933.0	954.7	977.8	996.5	1009.7	1024.7	1041.9	1062.1
15°	855.2	879.6	907.9	936.9	967.9	995.9	1016.0	1038.9	1055.2	1074.2	1091.8
17.5°	837.4	868.8	904.7	938.2	974.1	1004.2	1031.9	1053.8	1065.4	1076.1	1078.8
20°	823.3	857.0	899.4	939.0	974.9	1009.6	1037.0	1055.2	1058.3	1058.6	1042.4
22.5°	808.0	846.1	890.4	930.9	973.9	1012.5	1033.8	1041.6	1029.6	1008.9	977.7
25°	779.8	823.9	875.3	921.6	968.5	1005.0	1012.4	998.7	956.3	911.8	855.6
27.5°	749.2	798.7	853.9	905.4	955.4	978.0	962.2	912.8	836.6	770.4	690.1
30°	726.8	782.4	836.7	894.2	940.4	950.2	914.0	841.2	752.4	652.5	572.4
32.5°	701.2	759.5	819.1	878.6	917.4	907.8	848.0	758.4	654.2	556.0	480.3
35°	664.6	725.0	789.1	848.8	873.5	832.4	742.9	626.3	519.8	428.1	376.0
37.5°	622.5	688.1	754.9	809.7	808.0	739.4	617.5	497.1	407.6	353.4	316.3
40°	592.5	658.8	731.0	777.3	757.5	668.3	536.1	422.6	357.1	313.9	286.8
42.5°	563.8	630.4	702.1	738.8	704.4	594.8	463.1	374.1	320.1	286.4	264.4
45°	514.9	585.1	651.6	672.0	610.4	489.6	374.5	310.0	274.0	249.1	233.8
47.5°	467.1	536.2	596.8	597.2	514.0	397.1	315.9	268.2	237.6	218.3	207.2
50°	437.8	503.6	554.4	546.5	452.2	353.2	282.5	241.4	215.9	201.0	189.4
52.5°	405.0	468.7	512.7	490.2	399.7	310.8	252.6	218.1	196.9	183.9	173.6
55°	357.1	413.8	444.8	410.7	326.1	258.4	213.4	186.3	170.5	159.6	150.7
57.5°	310.2	356.9	376.4	336.7	268.6	214.3	180.5	160.2	144.5	136.6	132.1
60°	280.7	320.6	334.3	290.5	233.5	187.5	159.9	141.0	129.4	124.3	119.7
62.5°	251.8	284.3	290.0	249.8	203.6	164.2	140.4	124.4	116.8	111.8	107.5
65°	208.9	232.3	229.6	197.3	161.0	130.3	112.9	103.2	97.4	90.4	82.8
67.5°	171.9	186.3	177.7	153.4	122.9	101.3	89.9	82.6	75.4	68.7	67.0
70°	148.5	156.8	147.7	125.5	100.8	85.0	75.8	67.0	62.7	61.2	58.5
72.5°	126.2	129.1	119.2	100.1	82.0	70.4	61.5	56.5	54.2	52.9	51.1
75°	94.7	92.5	84.1	69.1	56.9	49.0	46.3	44.4	43.0	41.7	40.8
77.5°	66.5	63.3	55.8	46.1	39.6	35.9	34.2	33.3	32.5	31.9	31.0
80°	49.9	47.8	40.2	32.9	30.2	28.3	27.4	26.2	26.2	25.6	24.6
82.5°	36.5	34.2	27.6	24.1	22.6	21.5	20.8	20.1	19.8	20.0	19.3
85°	19.2	15.5	13.7	13.1	12.1	11.6	11.9	11.3	11.3	11.3	10.9
87.5°	6.4	5.6	5.8	6.0	6.6	6.9	7.0	7.3	7.8	7.8	8.2
90°	3.0	5.1	7.3	9.4	11.2	12.7	14.3	15.8	17.4	18.3	19.2
92.5°	17.3	17.1	17.0	16.7	17.0	17.8	18.6	19.3	20.1	20.6	21.1
95°	50.0	43.6	37.3	30.9	28.4	29.8	31.1	32.4	33.8	34.7	35.7
97.5°	93.9	76.0	58.0	40.2	32.8	35.9	39.0	42.2	45.2	46.0	46.8
100°	127.0	100.6	74.3	47.9	36.3	39.5	42.9	46.1	49.4	51.0	52.5
102.5°	193.6	188.0	182.4	176.8	160.4	133.0	105.6	78.2	50.8	52.8	54.8
105°	269.3	275.0	280.8	286.6	263.2	210.6	158.0	105.4	52.8	55.0	57.1
107.5°	341.4	346.1	350.7	355.5	326.3	263.2	200.2	137.1	74.0	71.8	69.7
110°	388.0	392.1	396.1	400.1	374.3	318.6	263.0	207.3	151.6	132.4	113.2



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	906.9	910.1	911.6	911.6	913.3	912.6	911.8
5°	959.0	964.8	966.0	971.5	975.5	974.3	974.9
7.5°	1010.9	1020.2	1029.4	1033.6	1034.3	1036.7	1037.6
10°	1042.8	1050.4	1064.7	1062.6	1073.3	1079.3	1069.3
12.5°	1073.5	1083.8	1093.7	1096.4	1102.4	1104.4	1100.4
15°	1101.2	1106.7	1107.3	1105.8	1107.7	1106.1	1100.3
17.5°	1075.3	1066.4	1048.4	1039.8	1033.1	1023.1	1019.1
20°	1032.4	1006.2	975.8	963.6	949.3	921.3	928.0
22.5°	939.9	910.0	879.6	844.0	827.0	800.5	798.9
25°	795.9	744.4	687.8	648.2	625.1	598.6	587.0
27.5°	618.8	554.0	507.6	484.1	462.7	441.7	440.8
30°	502.4	453.6	417.8	397.6	384.6	375.7	377.6
32.5°	423.5	390.0	365.8	349.2	339.5	332.8	332.7
35°	346.2	323.3	307.8	300.8	293.8	288.9	289.3
37.5°	296.3	282.5	273.9	266.2	261.8	259.4	258.0
40°	270.7	259.4	252.7	248.2	244.5	241.2	240.5
42.5°	250.5	241.2	234.4	230.8	227.5	225.0	224.5
45°	222.3	214.7	208.6	204.6	203.1	201.0	201.0
47.5°	197.7	190.2	185.5	183.0	180.3	179.0	178.9
50°	181.2	175.4	171.1	169.6	167.5	166.6	166.2
52.5°	166.3	162.0	158.9	157.9	156.9	155.8	156.0
55°	146.1	143.7	142.5	141.5	140.1	138.2	139.4
57.5°	129.1	127.1	123.8	120.9	119.5	118.2	118.7
60°	117.2	112.9	108.7	105.3	104.4	101.7	101.7
62.5°	102.2	96.1	90.9	89.0	88.1	86.8	86.6
65°	78.5	76.1	74.9	73.7	73.1	73.1	72.5
67.5°	65.1	64.1	62.8	62.5	61.9	61.7	61.5
70°	57.6	56.3	55.7	55.4	54.8	55.1	54.2
72.5°	50.2	49.2	49.2	48.3	48.0	48.0	47.4
75°	39.5	39.5	39.3	39.0	38.4	38.1	38.4
77.5°	30.4	30.5	29.9	29.9	29.8	29.9	29.6
80°	24.4	24.6	24.4	24.1	23.7	24.1	23.7
82.5°	19.2	18.8	18.8	18.7	18.7	18.4	18.4
85°	10.9	11.3	10.9	10.7	10.7	10.7	10.9
87.5°	8.2	8.4	8.5	8.6	8.6	8.7	8.6
90°	20.2	21.2	21.9	22.3	22.7	23.0	23.4
92.5°	21.6	22.1	22.5	22.7	22.9	23.2	23.4
95°	36.7	37.7	38.1	37.8	37.7	37.4	37.3
97.5°	47.5	48.3	48.8	49.1	49.3	49.5	49.7
100°	54.1	55.6	56.5	56.9	57.3	57.7	58.0
102.5°	56.8	58.8	60.1	60.6	61.1	61.7	62.2
105°	59.2	61.3	62.8	63.6	64.3	65.1	65.9
107.5°	67.5	65.4	64.7	65.5	66.2	67.0	67.8
110°	93.9	74.6	65.4	66.1	66.9	67.7	68.5



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)