

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: P332418-935

Luminaire Tested: **S123RDIW-S560D1030U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332418-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S560D1030U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5471.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

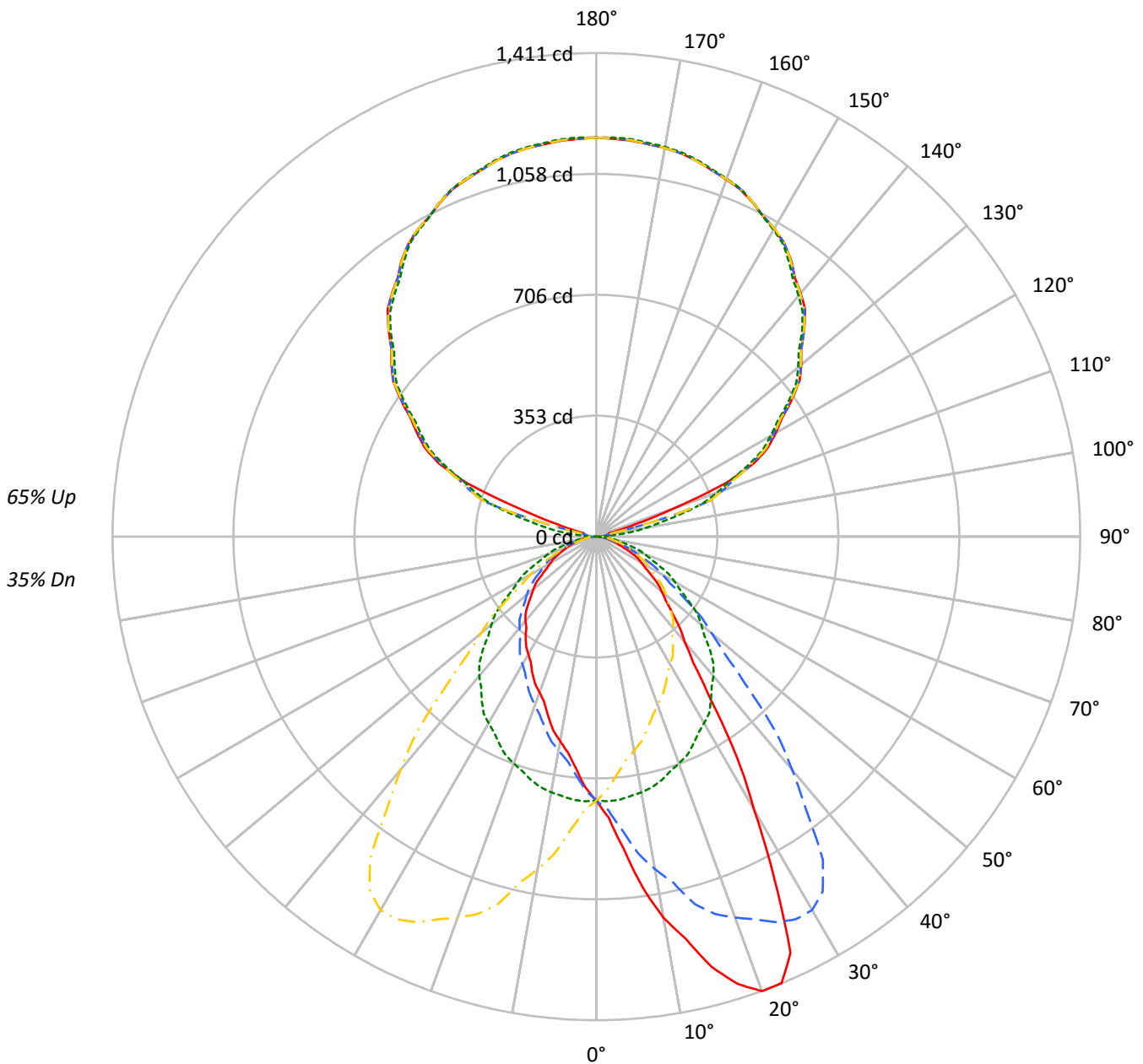
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ···· 90°-270° - · - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35				
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	37	30				
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	31	26				
3	79	70	63	58	71	64	58	53	52	48	44	41	38	36	31	29	27	23				
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	27	25	24	20				
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17				
6	62	50	42	37	56	46	39	34	38	33	29	30	26	24	23	20	19	15				
7	57	45	38	32	51	41	35	30	34	29	25	27	24	21	21	18	17	14				
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	17	15	12				
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	18	15	14	11				
10	46	34	27	23	42	31	25	21	26	21	18	21	18	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8291	8291	8291	8291
5°	9884	8327	7333	8327
10°	12342	8279	6625	8279
15°	14487	8195	6042	8195
20°	16167	8069	5545	8069
25°	15909	7935	5241	7935
30°	11436	7812	4927	7812
35°	7636	7653	4724	7653
40°	5626	7461	4513	7461
45°	4719	7124	4306	7124
50°	4165	6683	4019	6683
55°	3652	6178	3626	6178
60°	3251	5694	3324	5694
65°	2855	5173	3092	5173
70°	2241	4711	2823	4711
75°	1975	4113	2578	4113
80°	1717	3496	2535	3496
85°	1383	2803	2692	2803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	1.4
10°-20°	236.7	4.3
20°-30°	371.8	6.8
30°-40°	387.9	7.1
40°-50°	332.0	6.1
50°-60°	253.0	4.6
60°-70°	162.2	3.0
70°-80°	78.0	1.4
80°-90°	23.9	0.4
90°-100°	42.3	0.8
100°-110°	201.7	3.7
110°-120°	484.5	8.9
120°-130°	616.9	11.3
130°-140°	659.2	12.0
140°-150°	616.4	11.3
150°-160°	497.2	9.1
160°-170°	320.9	5.9
170°-180°	110.6	2.0
0°-30°	684.3	12.5
0°-40°	1072.2	19.6
0°-60°	1657.2	30.3
0°-90°	1921.3	35.1
90°-120°	728.5	13.3
90°-150°	2621.0	47.9
90°-180°	3550.0	64.9
0°-180°	5471.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	770	770	770	770	770	
5°	915	771	679	771	915	94
15°	1300	735	542	735	1300	369
25°	1340	668	441	668	1340	576
35°	581	582	360	582	581	381
45°	310	468	283	468	310	244
55°	195	329	193	329	195	176
65°	112	203	121	203	112	110
75°	48	99	62	99	48	51
85°	11	23	22	23	11	14
90°	26	1	26	1	26	12
95°	33	53	33	53	33	27
105°	38	258	38	258	38	87
115°	508	484	508	484	508	470
125°	695	682	695	682	695	621
135°	857	848	857	848	857	661
145°	988	979	988	979	988	617
155°	1077	1078	1077	1078	1077	496
165°	1135	1137	1135	1137	1135	320
175°	1160	1164	1160	1164	1160	110
180°	1164	1164	1164	1164	1164	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	820.4	821.6	818.1	817.6	813.6	812.6	812.6	807.0	803.6	799.1	796.5
5°	914.8	920.1	917.5	911.5	901.6	899.3	893.0	883.1	871.9	858.1	851.5
7.5°	1032.6	1039.8	1037.0	1027.9	1017.5	1009.1	991.4	975.0	952.0	931.9	914.6
10°	1129.2	1121.5	1115.7	1106.7	1097.2	1081.7	1063.2	1037.8	1008.5	985.4	959.7
12.5°	1201.4	1200.2	1192.7	1183.5	1170.0	1155.3	1132.6	1101.6	1067.6	1034.1	1004.8
15°	1300.0	1302.0	1297.0	1287.5	1268.3	1242.3	1208.0	1195.2	1146.3	1110.0	1073.8
17.5°	1368.2	1367.8	1367.1	1353.8	1334.4	1315.8	1284.0	1250.2	1206.0	1154.9	1106.0
20°	1411.4	1408.2	1408.9	1394.0	1379.5	1358.1	1327.1	1277.9	1241.6	1182.6	1132.1
22.5°	1410.4	1409.7	1412.2	1407.1	1396.6	1380.2	1355.8	1314.3	1268.0	1208.4	1151.7
25°	1339.5	1337.0	1352.5	1356.7	1373.6	1376.5	1369.2	1346.5	1302.6	1241.3	1171.0
27.5°	1121.1	1119.6	1148.4	1184.4	1230.1	1265.6	1299.9	1316.4	1302.6	1258.7	1188.4
30°	920.1	951.1	965.6	1017.7	1075.7	1145.0	1205.7	1263.3	1277.6	1258.4	1200.8
32.5°	763.9	790.9	803.1	847.8	901.9	983.0	1074.0	1155.7	1213.5	1228.1	1193.3
35°	581.1	581.4	609.1	628.9	679.0	762.4	850.8	960.3	1069.1	1151.6	1160.2
37.5°	463.6	465.3	482.1	501.8	539.4	583.5	661.3	752.3	878.0	1004.6	1078.8
40°	400.4	403.3	415.9	435.3	462.4	495.7	556.4	642.0	746.9	887.8	1002.9
42.5°	359.7	364.5	371.0	386.0	402.7	433.9	483.0	549.2	644.5	777.7	910.5
45°	310.0	312.6	317.5	324.5	339.7	361.4	394.4	438.9	518.1	625.3	758.2
47.5°	273.5	272.1	277.2	282.9	293.0	307.8	329.9	366.3	422.8	508.7	621.5
50°	248.7	248.3	251.9	256.2	265.8	276.7	294.8	322.2	367.0	438.2	541.5
52.5°	225.4	226.7	229.3	234.6	241.5	250.3	266.6	286.3	324.9	386.3	472.3
55°	194.6	195.5	199.1	202.2	207.1	216.0	226.3	242.7	269.1	311.9	382.9
57.5°	168.4	168.0	171.5	172.2	177.8	185.0	193.0	205.8	224.9	256.8	304.5
60°	151.0	150.1	153.0	155.3	158.3	164.2	170.8	183.4	198.5	222.0	262.9
62.5°	135.2	134.7	136.9	139.2	141.6	147.1	152.7	162.2	174.3	194.0	226.4
65°	112.1	113.1	114.1	115.1	116.4	119.7	125.0	131.6	139.8	153.7	177.1
67.5°	88.1	89.1	89.5	91.4	94.3	96.3	99.6	105.5	111.2	122.9	136.2
70°	71.2	70.9	71.2	72.2	75.9	79.5	83.8	88.1	91.7	100.0	111.2
72.5°	61.2	60.6	61.5	61.6	63.5	64.4	67.2	71.2	75.9	81.5	89.5
75°	47.5	47.5	47.5	47.5	48.8	49.5	50.5	51.5	53.1	55.7	61.6
77.5°	35.1	35.1	35.6	35.9	36.2	36.6	37.2	38.2	38.7	40.2	42.7
80°	27.7	28.1	27.7	28.1	28.1	28.7	29.0	30.0	30.3	32.0	33.0
82.5°	20.8	20.7	20.8	21.2	21.2	21.9	21.9	22.6	22.7	23.5	24.5
85°	11.2	10.6	11.2	10.8	11.5	10.8	11.2	11.9	11.9	12.2	13.5
87.5°	7.8	8.3	7.7	7.8	7.7	7.9	7.7	7.7	8.0	7.6	7.3
90°	25.9	25.6	25.1	24.8	24.4	23.8	23.1	22.3	21.5	20.8	18.3
92.5°	28.7	28.5	28.2	28.0	27.8	27.0	25.8	24.6	23.3	22.1	20.2
95°	32.9	32.9	32.9	32.9	32.9	32.2	30.8	29.5	28.2	26.8	24.7
97.5°	35.6	35.5	35.2	35.0	34.9	34.0	32.5	30.9	29.4	27.8	41.7
100°	36.3	36.2	35.9	35.7	35.6	34.7	33.1	31.6	30.0	28.5	58.5
102.5°	37.0	36.7	36.3	36.0	35.6	37.8	42.6	47.4	52.2	56.9	89.6
105°	38.1	37.6	37.3	36.9	36.5	53.3	87.3	121.4	155.4	189.4	206.7
107.5°	119.5	145.2	170.8	196.4	222.1	247.4	272.3	297.2	322.2	347.2	344.4
110°	237.8	265.3	292.7	320.3	347.8	364.6	371.0	377.4	383.7	390.0	387.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	408.0	413.8	419.7	425.4	431.2	434.0	433.9	433.9	433.7	433.6	431.5
115°	508.5	507.7	507.0	506.2	505.4	504.1	502.1	500.2	498.3	496.4	494.6
117.5°	564.9	564.7	564.6	564.4	564.3	563.4	561.9	560.3	558.8	557.2	556.4
120°	603.6	603.6	603.6	603.6	603.6	602.9	601.3	599.8	598.2	596.7	596.2
122.5°	641.7	641.5	641.4	641.2	641.1	640.4	639.4	638.3	637.2	636.1	635.4
125°	695.3	694.9	694.5	694.1	693.8	693.4	693.0	692.6	692.2	691.8	691.0
127.5°	746.8	747.3	747.6	748.0	748.4	748.3	747.6	747.0	746.4	745.8	744.9
130°	780.1	780.4	780.8	781.2	781.6	781.4	780.6	779.9	779.1	778.3	777.6
132.5°	810.5	811.1	811.6	812.1	812.6	812.5	811.8	811.0	810.2	809.4	808.8
135°	857.0	857.6	858.2	858.8	859.3	859.3	858.8	858.2	857.6	857.0	856.3
137.5°	900.8	901.1	901.6	901.9	902.3	902.1	901.1	900.2	899.2	898.4	897.9
140°	927.0	927.5	927.8	928.2	928.6	928.4	927.6	926.9	926.1	925.3	924.7
142.5°	951.2	951.8	952.4	952.9	953.4	953.4	952.8	952.2	951.6	950.9	950.4
145°	988.4	988.4	988.4	988.4	988.4	988.3	987.9	987.5	987.1	986.7	986.4
147.5°	1016.2	1017.0	1017.9	1018.8	1019.7	1019.9	1019.5	1019.2	1018.7	1018.4	1018.0
150°	1036.9	1037.5	1038.0	1038.6	1039.2	1039.3	1038.9	1038.5	1038.1	1037.8	1037.3
152.5°	1053.5	1054.4	1055.2	1056.1	1057.0	1057.1	1056.4	1055.8	1055.1	1054.4	1054.1
155°	1076.7	1077.8	1079.0	1080.1	1081.2	1081.4	1080.4	1079.4	1078.5	1077.5	1077.4
157.5°	1096.2	1097.7	1099.2	1100.7	1102.2	1102.3	1101.2	1100.1	1098.9	1097.8	1097.9
160°	1108.6	1110.0	1111.4	1112.7	1114.0	1114.1	1113.0	1111.8	1110.7	1109.6	1109.7
162.5°	1120.4	1121.6	1122.8	1124.0	1125.2	1125.2	1123.9	1122.5	1121.2	1119.9	1120.1
165°	1134.6	1135.9	1137.3	1138.7	1140.0	1139.9	1138.3	1136.8	1135.3	1133.8	1133.9
167.5°	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0	1149.4	1147.9	1146.3	1144.8	1144.8
170°	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2	1155.6	1154.1	1152.5	1151.1	1151.1
172.5°	1154.5	1156.2	1157.9	1159.6	1161.2	1161.3	1159.8	1158.3	1156.8	1155.2	1155.0
175°	1159.7	1161.2	1162.8	1164.3	1165.9	1166.0	1164.6	1163.2	1161.9	1160.5	1160.4
177.5°	1161.2	1162.8	1164.3	1165.9	1167.4	1167.5	1166.3	1165.1	1163.9	1162.6	1162.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	795.4	794.6	790.9	786.7	781.2	777.5	774.6	773.0	768.3	762.4	758.5
5°	844.6	834.7	824.1	811.2	799.4	787.2	779.6	770.7	759.8	747.6	739.0
7.5°	897.2	877.8	856.9	835.3	814.0	794.9	778.0	763.5	746.2	728.8	716.4
10°	937.5	909.2	879.9	849.8	822.4	796.8	777.0	757.5	736.8	716.6	701.5
12.5°	974.2	936.9	903.1	866.2	831.2	800.5	772.0	749.1	724.1	702.7	685.4
15°	1020.6	982.4	941.5	885.5	839.0	800.0	765.4	735.4	705.1	678.7	661.9
17.5°	1064.0	1006.5	951.6	904.7	844.4	795.7	753.5	717.6	684.3	656.3	635.6
20°	1082.0	1026.3	966.6	906.9	847.6	793.2	744.0	704.4	669.8	638.1	619.0
22.5°	1092.8	1029.7	966.8	902.7	839.6	783.1	734.5	691.0	653.4	623.4	599.8
25°	1105.4	1030.2	961.0	897.7	833.4	772.0	714.3	668.1	627.6	595.6	570.5
27.5°	1113.7	1025.3	943.4	873.1	807.8	746.7	693.9	644.9	603.7	569.9	543.0
30°	1115.3	1021.3	930.0	853.8	787.5	731.4	675.4	628.5	585.0	549.1	524.0
32.5°	1117.4	1011.6	911.8	830.9	763.0	707.5	656.7	611.9	567.3	531.9	506.4
35°	1108.7	1006.2	884.2	791.2	723.2	669.4	623.6	582.4	538.6	504.2	478.2
37.5°	1071.3	984.7	855.5	746.4	675.4	625.6	588.2	552.3	512.1	475.1	450.6
40°	1033.5	963.6	833.4	719.3	645.1	593.9	560.3	531.0	492.1	457.4	431.0
42.5°	977.3	934.9	812.3	690.8	610.7	561.5	533.1	505.6	471.5	436.3	411.5
45°	874.3	879.9	769.0	645.4	563.3	513.8	487.1	468.0	437.6	408.6	383.2
47.5°	744.9	797.4	718.3	597.0	513.2	466.7	443.4	426.7	406.3	377.8	354.6
50°	660.6	735.4	677.7	564.6	481.8	435.7	412.6	399.1	381.3	358.8	336.7
52.5°	582.7	663.1	628.6	528.4	447.8	405.5	383.0	371.9	357.7	336.7	316.7
55°	475.2	556.6	548.7	473.9	396.7	358.8	341.6	329.2	319.5	303.8	287.9
57.5°	384.4	461.6	465.7	413.2	351.7	314.3	299.5	290.1	283.8	271.9	257.3
60°	327.2	398.0	411.9	372.3	319.5	286.5	272.1	264.5	259.5	249.9	238.8
62.5°	279.7	340.0	355.7	327.2	288.7	257.8	246.5	239.2	235.8	227.6	217.7
65°	214.0	264.2	279.3	263.5	243.4	218.6	209.4	203.1	200.2	195.5	188.3
67.5°	160.9	197.5	214.1	202.9	195.7	180.0	174.2	170.8	168.2	165.1	158.9
70°	129.2	156.4	173.5	170.5	164.5	156.4	152.1	149.7	147.1	144.5	139.1
72.5°	103.9	122.5	138.6	140.2	135.3	133.6	129.8	128.9	127.3	124.2	121.2
75°	69.0	81.8	93.0	97.3	99.3	100.9	99.3	98.9	98.6	96.0	94.3
77.5°	45.2	52.1	59.2	66.5	69.6	71.8	72.3	73.5	72.7	71.3	70.5
80°	34.6	36.2	41.2	47.5	52.4	54.4	55.7	56.4	56.1	55.7	54.4
82.5°	25.1	26.5	28.8	33.2	37.4	40.7	41.5	41.3	42.1	42.3	41.2
85°	13.5	13.9	14.6	15.2	17.5	21.1	22.1	22.7	23.4	23.4	21.4
87.5°	7.4	6.6	6.6	6.2	6.6	6.5	7.7	8.6	9.3	8.6	9.0
90°	15.8	13.3	10.8	8.5	6.6	4.7	2.8	0.9	2.8	4.7	6.6
92.5°	18.3	16.5	14.6	13.9	14.5	15.0	15.6	16.1	15.6	15.0	14.5
95°	22.6	20.5	18.3	21.3	29.1	37.0	44.9	52.8	44.9	37.0	29.1
97.5°	55.5	69.4	83.2	91.9	95.4	98.9	102.5	106.0	102.5	98.9	95.4
100°	88.5	118.5	148.4	161.5	157.6	153.9	150.0	146.1	150.0	153.9	157.6
102.5°	122.4	155.2	187.9	202.9	200.1	197.3	194.6	191.8	194.6	197.3	200.1
105°	223.9	241.3	258.6	266.1	264.1	261.9	259.8	257.7	259.8	261.9	264.1
107.5°	341.6	339.0	336.2	334.0	332.3	330.6	328.9	327.3	328.9	330.6	332.3
110°	385.8	383.7	381.6	379.7	378.2	376.7	375.1	373.6	375.1	376.7	378.2



TEST NUMBER: P332418-935

CATALOG NUMBER: S123RDIW-S560D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	429.4	427.2	425.2	423.4	422.1	420.6	419.2	417.8	419.2	420.6	422.1
115°	492.9	491.2	489.5	488.0	486.9	485.7	484.6	483.5	484.6	485.7	486.9
117.5°	555.5	554.7	553.7	552.6	551.1	549.7	548.3	546.9	548.3	549.7	551.1
120°	595.6	595.0	594.4	593.2	591.5	589.8	588.1	586.3	588.1	589.8	591.5
122.5°	634.6	634.0	633.2	632.1	630.7	629.3	627.8	626.5	627.8	629.3	630.7
125°	690.3	689.5	688.8	687.6	686.0	684.5	683.0	681.5	683.0	684.5	686.0
127.5°	744.0	743.0	742.1	740.9	739.3	737.8	736.2	734.7	736.2	737.8	739.3
130°	776.8	776.0	775.2	774.1	772.6	771.0	769.5	767.9	769.5	771.0	772.6
132.5°	808.2	807.6	807.0	805.9	804.3	802.8	801.3	799.8	801.3	802.8	804.3
135°	855.5	854.7	853.9	853.0	851.8	850.7	849.5	848.3	849.5	850.7	851.8
137.5°	897.5	897.1	896.6	895.7	894.2	892.8	891.3	889.8	891.3	892.8	894.2
140°	924.2	923.6	923.0	922.1	921.0	919.9	918.7	917.6	918.7	919.9	921.0
142.5°	949.8	949.2	948.6	947.8	946.6	945.5	944.3	943.1	944.3	945.5	946.6
145°	985.9	985.6	985.2	984.3	983.0	981.6	980.2	979.0	980.2	981.6	983.0
147.5°	1017.6	1017.2	1016.8	1016.2	1015.3	1014.4	1013.6	1012.7	1013.6	1014.4	1015.3
150°	1037.0	1036.6	1036.2	1035.7	1035.2	1034.6	1034.0	1033.5	1034.0	1034.6	1035.2
152.5°	1053.9	1053.7	1053.4	1053.2	1052.9	1052.7	1052.4	1052.1	1052.4	1052.7	1052.9
155°	1077.1	1076.9	1076.8	1076.9	1077.3	1077.6	1078.0	1078.4	1078.0	1077.6	1077.3
157.5°	1098.1	1098.4	1098.5	1098.6	1098.7	1098.7	1098.8	1098.8	1098.8	1098.7	1098.7
160°	1109.9	1110.1	1110.3	1110.5	1110.7	1110.9	1111.0	1111.3	1111.0	1110.9	1110.7
162.5°	1120.3	1120.5	1120.7	1121.0	1121.5	1122.1	1122.5	1123.0	1122.5	1122.1	1121.5
165°	1134.1	1134.3	1134.5	1134.9	1135.5	1136.1	1136.6	1137.2	1136.6	1136.1	1135.5
167.5°	1144.8	1144.8	1144.8	1145.2	1146.0	1146.8	1147.5	1148.2	1147.5	1146.8	1146.0
170°	1151.1	1151.1	1151.1	1151.4	1152.2	1153.0	1153.7	1154.5	1153.7	1153.0	1152.2
172.5°	1154.9	1154.7	1154.6	1154.9	1155.9	1156.8	1157.7	1158.6	1157.7	1156.8	1155.9
175°	1160.2	1159.9	1159.8	1160.2	1161.1	1162.1	1163.0	1164.0	1163.0	1162.1	1161.1
177.5°	1162.4	1162.2	1162.0	1162.4	1163.1	1163.9	1164.6	1165.4	1164.6	1163.9	1163.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	757.2	753.7	751.4	746.1	742.7	739.0	735.3	737.6	737.4	737.1	737.1
5°	731.8	724.2	717.3	708.3	702.7	695.9	690.5	689.9	691.2	686.6	684.0
7.5°	706.6	696.2	686.4	676.6	666.2	657.8	652.6	650.2	646.9	644.0	641.0
10°	688.9	676.7	667.1	655.0	643.8	633.9	627.6	623.3	621.0	618.6	614.4
12.5°	670.7	658.8	646.5	632.7	622.1	610.6	606.0	601.2	596.7	594.1	588.2
15°	644.0	628.5	615.7	601.2	589.4	578.1	571.5	562.0	560.6	557.3	551.4
17.5°	617.3	600.5	582.8	572.0	558.6	547.0	536.9	533.7	524.3	520.7	515.6
20°	596.2	580.7	567.2	553.0	533.6	522.7	514.8	510.5	502.9	498.3	495.0
22.5°	578.1	562.2	546.6	530.1	514.0	501.9	496.0	489.4	485.3	478.8	475.2
25°	552.1	534.9	516.1	498.3	486.7	477.5	468.3	462.4	456.4	453.4	446.9
27.5°	521.9	503.9	486.4	472.9	458.7	449.5	441.2	435.9	428.8	423.8	420.2
30°	505.2	484.1	469.0	456.8	438.6	430.1	423.8	417.2	411.9	406.7	402.9
32.5°	485.9	466.7	452.3	437.2	423.3	414.0	405.8	400.0	395.5	390.5	386.9
35°	455.7	439.6	424.7	409.6	399.3	389.8	380.2	375.3	371.0	366.4	363.1
37.5°	428.4	413.4	399.2	384.9	372.2	364.4	356.7	352.9	347.2	344.1	340.7
40°	411.6	396.7	381.6	367.7	354.5	348.6	341.6	336.0	330.8	328.5	324.9
42.5°	393.1	378.2	365.5	350.5	339.8	331.7	325.3	319.2	315.2	311.9	309.8
45°	365.8	352.5	340.0	325.2	315.0	308.0	300.7	295.2	291.5	289.2	285.6
47.5°	339.1	326.0	313.2	300.3	290.4	282.5	275.3	271.3	266.6	263.7	261.2
50°	319.9	308.0	294.5	282.6	272.8	264.8	258.9	253.9	249.6	246.0	244.4
52.5°	302.2	289.6	277.8	266.8	256.4	247.4	242.0	236.8	233.6	229.4	227.5
55°	273.0	260.9	251.0	240.0	229.9	222.3	215.7	211.0	207.8	203.1	200.5
57.5°	245.6	234.7	222.9	213.5	202.9	196.6	191.1	184.8	180.8	177.2	174.6
60°	227.2	214.6	204.5	195.5	186.3	178.1	173.1	168.2	163.9	160.2	158.0
62.5°	207.9	197.0	187.4	177.6	169.2	162.0	156.3	152.1	148.4	146.0	143.7
65°	178.4	169.9	160.0	152.1	144.1	138.9	134.2	130.6	127.9	126.3	124.3
67.5°	151.3	142.9	134.3	126.5	121.2	117.2	114.2	111.1	109.8	107.6	106.3
70°	133.5	125.0	117.4	111.5	106.2	103.2	101.3	98.9	97.6	95.0	93.7
72.5°	114.3	108.1	102.6	97.7	93.5	90.8	88.3	85.5	83.3	80.5	79.1
75°	90.1	84.5	80.2	76.8	74.2	70.6	67.0	64.0	63.0	62.0	61.6
77.5°	66.6	63.1	60.0	57.3	54.0	51.3	50.5	49.9	49.7	49.2	49.2
80°	52.4	49.2	46.8	43.6	41.6	41.6	41.6	40.9	41.2	41.2	41.2
82.5°	39.0	35.9	34.7	33.5	33.1	33.4	33.4	33.5	33.3	33.8	33.6
85°	20.1	20.4	21.1	20.8	21.1	21.1	21.8	21.4	21.8	21.1	21.8
87.5°	9.1	10.3	11.1	11.9	12.7	12.8	13.3	13.4	13.9	14.0	14.1
90°	8.5	10.8	13.3	15.8	18.3	20.8	21.5	22.3	23.1	23.8	24.4
92.5°	13.9	14.6	16.5	18.3	20.2	22.1	23.3	24.6	25.8	27.0	27.8
95°	21.3	18.3	20.5	22.6	24.7	26.8	28.2	29.5	30.8	32.2	32.9
97.5°	91.9	83.2	69.4	55.5	41.7	27.8	29.4	30.9	32.5	34.0	34.9
100°	161.5	148.4	118.5	88.5	58.5	28.5	30.0	31.6	33.1	34.7	35.6
102.5°	202.9	187.9	155.2	122.4	89.6	56.9	52.2	47.4	42.6	37.8	35.6
105°	266.1	258.6	241.3	223.9	206.7	189.4	155.4	121.4	87.3	53.3	36.5
107.5°	334.0	336.2	339.0	341.6	344.4	347.2	322.2	297.2	272.3	247.4	222.1
110°	379.7	381.6	383.7	385.8	387.9	390.0	383.7	377.4	371.0	364.6	347.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	423.4	425.2	427.2	429.4	431.5	433.6	433.7	433.9	433.9	434.0	431.2
115°	488.0	489.5	491.2	492.9	494.6	496.4	498.3	500.2	502.1	504.1	505.4
117.5°	552.6	553.7	554.7	555.5	556.4	557.2	558.8	560.3	561.9	563.4	564.3
120°	593.2	594.4	595.0	595.6	596.2	596.7	598.2	599.8	601.3	602.9	603.6
122.5°	632.1	633.2	634.0	634.6	635.4	636.1	637.2	638.3	639.4	640.4	641.1
125°	687.6	688.8	689.5	690.3	691.0	691.8	692.2	692.6	693.0	693.4	693.8
127.5°	740.9	742.1	743.0	744.0	744.9	745.8	746.4	747.0	747.6	748.3	748.4
130°	774.1	775.2	776.0	776.8	777.6	778.3	779.1	779.9	780.6	781.4	781.6
132.5°	805.9	807.0	807.6	808.2	808.8	809.4	810.2	811.0	811.8	812.5	812.6
135°	853.0	853.9	854.7	855.5	856.3	857.0	857.6	858.2	858.8	859.3	859.3
137.5°	895.7	896.6	897.1	897.5	897.9	898.4	899.2	900.2	901.1	902.1	902.3
140°	922.1	923.0	923.6	924.2	924.7	925.3	926.1	926.9	927.6	928.4	928.6
142.5°	947.8	948.6	949.2	949.8	950.4	950.9	951.6	952.2	952.8	953.4	953.4
145°	984.3	985.2	985.6	985.9	986.4	986.7	987.1	987.5	987.9	988.3	988.4
147.5°	1016.2	1016.8	1017.2	1017.6	1018.0	1018.4	1018.7	1019.2	1019.5	1019.9	1019.7
150°	1035.7	1036.2	1036.6	1037.0	1037.3	1037.8	1038.1	1038.5	1038.9	1039.3	1039.2
152.5°	1053.2	1053.4	1053.7	1053.9	1054.1	1054.4	1055.1	1055.8	1056.4	1057.1	1057.0
155°	1076.9	1076.8	1076.9	1077.1	1077.4	1077.5	1078.5	1079.4	1080.4	1081.4	1081.2
157.5°	1098.6	1098.5	1098.4	1098.1	1097.9	1097.8	1098.9	1100.1	1101.2	1102.3	1102.2
160°	1110.5	1110.3	1110.1	1109.9	1109.7	1109.6	1110.7	1111.8	1113.0	1114.1	1114.0
162.5°	1121.0	1120.7	1120.5	1120.3	1120.1	1119.9	1121.2	1122.5	1123.9	1125.2	1125.2
165°	1134.9	1134.5	1134.3	1134.1	1133.9	1133.8	1135.3	1136.8	1138.3	1139.9	1140.0
167.5°	1145.2	1144.8	1144.8	1144.8	1144.8	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0
170°	1151.4	1151.1	1151.1	1151.1	1151.1	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2
172.5°	1154.9	1154.6	1154.7	1154.9	1155.0	1155.2	1156.8	1158.3	1159.8	1161.3	1161.2
175°	1160.2	1159.8	1159.9	1160.2	1160.4	1160.5	1161.9	1163.2	1164.6	1166.0	1165.9
177.5°	1162.4	1162.0	1162.2	1162.4	1162.4	1162.6	1163.9	1165.1	1166.3	1167.5	1167.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332418-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	733.9	733.7	733.9	732.9	733.9	733.7	733.9	737.1	737.1	737.4	737.6
5°	682.9	682.6	681.7	678.7	681.7	682.6	682.9	684.0	686.6	691.2	689.9
7.5°	638.4	638.0	635.1	635.2	635.1	638.0	638.4	641.0	644.0	646.9	650.2
10°	612.1	612.4	608.5	606.1	608.5	612.4	612.1	614.4	618.6	621.0	623.3
12.5°	586.5	585.0	581.8	579.2	581.8	585.0	586.5	588.2	594.1	596.7	601.2
15°	552.7	549.4	541.5	542.2	541.5	549.4	552.7	551.4	557.3	560.6	562.0
17.5°	512.9	510.5	510.4	505.8	510.4	510.5	512.9	515.6	520.7	524.3	533.7
20°	489.7	488.1	488.7	484.1	488.7	488.1	489.7	495.0	498.3	502.9	510.5
22.5°	471.5	469.8	467.1	465.6	467.1	469.8	471.5	475.2	478.8	485.3	489.4
25°	444.9	442.2	439.6	441.3	439.6	442.2	444.9	446.9	453.4	456.4	462.4
27.5°	418.2	416.2	413.6	413.3	413.6	416.2	418.2	420.2	423.8	428.8	435.9
30°	401.3	399.3	398.0	396.4	398.0	399.3	401.3	402.9	406.7	411.9	417.2
32.5°	384.2	383.8	381.4	381.1	381.4	383.8	384.2	386.9	390.5	395.5	400.0
35°	361.8	359.8	359.1	359.5	359.1	359.8	361.8	363.1	366.4	371.0	375.3
37.5°	340.4	337.9	336.7	335.4	336.7	337.9	340.4	340.7	344.1	347.2	352.9
40°	325.2	322.5	321.8	321.2	321.8	322.5	325.2	324.9	328.5	330.8	336.0
42.5°	308.0	306.9	306.6	305.4	306.6	306.9	308.0	309.8	311.9	315.2	319.2
45°	284.6	284.3	282.3	282.9	282.3	284.3	284.6	285.6	289.2	291.5	295.2
47.5°	259.9	258.5	257.1	258.0	257.1	258.5	259.9	261.2	263.7	266.6	271.3
50°	243.1	242.4	239.4	240.0	239.4	242.4	243.1	244.4	246.0	249.6	253.9
52.5°	226.2	223.7	222.6	222.1	222.6	223.7	226.2	227.5	229.4	233.6	236.8
55°	198.2	195.2	193.9	193.2	193.9	195.2	198.2	200.5	203.1	207.8	211.0
57.5°	170.7	170.0	168.9	169.6	168.9	170.0	170.7	174.6	177.2	180.8	184.8
60°	154.6	154.6	154.6	154.4	154.6	154.6	154.6	158.0	160.2	163.9	168.2
62.5°	142.2	141.5	141.2	141.6	141.2	141.5	142.2	143.7	146.0	148.4	152.1
65°	123.3	123.0	121.7	121.4	121.7	123.0	123.3	124.3	126.3	127.9	130.6
67.5°	105.5	104.3	103.9	103.4	103.9	104.3	105.5	106.3	107.6	109.8	111.1
70°	92.0	91.4	89.4	89.7	89.4	91.4	92.0	93.7	95.0	97.6	98.9
72.5°	77.5	76.8	76.5	75.9	76.5	76.8	77.5	79.1	80.5	83.3	85.5
75°	61.3	61.0	60.7	62.0	60.7	61.0	61.3	61.6	62.0	63.0	64.0
77.5°	49.2	49.2	49.3	48.8	49.3	49.2	49.2	49.2	49.2	49.7	49.9
80°	41.2	41.2	40.9	40.9	40.9	41.2	41.2	41.2	41.2	41.2	40.9
82.5°	33.1	33.3	33.5	33.0	33.5	33.3	33.1	33.6	33.8	33.3	33.5
85°	21.8	21.4	22.1	21.8	22.1	21.4	21.8	21.8	21.1	21.8	21.4
87.5°	14.7	14.3	14.4	14.7	14.4	14.3	14.7	14.1	14.0	13.9	13.4
90°	24.8	25.1	25.6	25.9	25.6	25.1	24.8	24.4	23.8	23.1	22.3
92.5°	28.0	28.2	28.5	28.7	28.5	28.2	28.0	27.8	27.0	25.8	24.6
95°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.2	30.8	29.5
97.5°	35.0	35.2	35.5	35.6	35.5	35.2	35.0	34.9	34.0	32.5	30.9
100°	35.7	35.9	36.2	36.3	36.2	35.9	35.7	35.6	34.7	33.1	31.6
102.5°	36.0	36.3	36.7	37.0	36.7	36.3	36.0	35.6	37.8	42.6	47.4
105°	36.9	37.3	37.6	38.1	37.6	37.3	36.9	36.5	53.3	87.3	121.4
107.5°	196.4	170.8	145.2	119.5	145.2	170.8	196.4	222.1	247.4	272.3	297.2
110°	320.3	292.7	265.3	237.8	265.3	292.7	320.3	347.8	364.6	371.0	377.4



TEST NUMBER: P332418-935

CATALOG NUMBER: S123RDIW-S560D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	425.4	419.7	413.8	408.0	413.8	419.7	425.4	431.2	434.0	433.9	433.9
115°	506.2	507.0	507.7	508.5	507.7	507.0	506.2	505.4	504.1	502.1	500.2
117.5°	564.4	564.6	564.7	564.9	564.7	564.6	564.4	564.3	563.4	561.9	560.3
120°	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6	602.9	601.3	599.8
122.5°	641.2	641.4	641.5	641.7	641.5	641.4	641.2	641.1	640.4	639.4	638.3
125°	694.1	694.5	694.9	695.3	694.9	694.5	694.1	693.8	693.4	693.0	692.6
127.5°	748.0	747.6	747.3	746.8	747.3	747.6	748.0	748.4	748.3	747.6	747.0
130°	781.2	780.8	780.4	780.1	780.4	780.8	781.2	781.6	781.4	780.6	779.9
132.5°	812.1	811.6	811.1	810.5	811.1	811.6	812.1	812.6	812.5	811.8	811.0
135°	858.8	858.2	857.6	857.0	857.6	858.2	858.8	859.3	859.3	858.8	858.2
137.5°	901.9	901.6	901.1	900.8	901.1	901.6	901.9	902.3	902.1	901.1	900.2
140°	928.2	927.8	927.5	927.0	927.5	927.8	928.2	928.6	928.4	927.6	926.9
142.5°	952.9	952.4	951.8	951.2	951.8	952.4	952.9	953.4	953.4	952.8	952.2
145°	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.3	987.9	987.5
147.5°	1018.8	1017.9	1017.0	1016.2	1017.0	1017.9	1018.8	1019.7	1019.9	1019.5	1019.2
150°	1038.6	1038.0	1037.5	1036.9	1037.5	1038.0	1038.6	1039.2	1039.3	1038.9	1038.5
152.5°	1056.1	1055.2	1054.4	1053.5	1054.4	1055.2	1056.1	1057.0	1057.1	1056.4	1055.8
155°	1080.1	1079.0	1077.8	1076.7	1077.8	1079.0	1080.1	1081.2	1081.4	1080.4	1079.4
157.5°	1100.7	1099.2	1097.7	1096.2	1097.7	1099.2	1100.7	1102.2	1102.3	1101.2	1100.1
160°	1112.7	1111.4	1110.0	1108.6	1110.0	1111.4	1112.7	1114.0	1114.1	1113.0	1111.8
162.5°	1124.0	1122.8	1121.6	1120.4	1121.6	1122.8	1124.0	1125.2	1125.2	1123.9	1122.5
165°	1138.7	1137.3	1135.9	1134.6	1135.9	1137.3	1138.7	1140.0	1139.9	1138.3	1136.8
167.5°	1149.4	1147.9	1146.3	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0	1149.4	1147.9
170°	1155.6	1154.1	1152.5	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2	1155.6	1154.1
172.5°	1159.6	1157.9	1156.2	1154.5	1156.2	1157.9	1159.6	1161.2	1161.3	1159.8	1158.3
175°	1164.3	1162.8	1161.2	1159.7	1161.2	1162.8	1164.3	1165.9	1166.0	1164.6	1163.2
177.5°	1165.9	1164.3	1162.8	1161.2	1162.8	1164.3	1165.9	1167.4	1167.5	1166.3	1165.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332418-935

CATALOG NUMBER: S123RDIW-S560D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	735.3	739.0	742.7	746.1	751.4	753.7	757.2	758.5	762.4	768.3	773.0
5°	690.5	695.9	702.7	708.3	717.3	724.2	731.8	739.0	747.6	759.8	770.7
7.5°	652.6	657.8	666.2	676.6	686.4	696.2	706.6	716.4	728.8	746.2	763.5
10°	627.6	633.9	643.8	655.0	667.1	676.7	688.9	701.5	716.6	736.8	757.5
12.5°	606.0	610.6	622.1	632.7	646.5	658.8	670.7	685.4	702.7	724.1	749.1
15°	571.5	578.1	589.4	601.2	615.7	628.5	644.0	661.9	678.7	705.1	735.4
17.5°	536.9	547.0	558.6	572.0	582.8	600.5	617.3	635.6	656.3	684.3	717.6
20°	514.8	522.7	533.6	553.0	567.2	580.7	596.2	619.0	638.1	669.8	704.4
22.5°	496.0	501.9	514.0	530.1	546.6	562.2	578.1	599.8	623.4	653.4	691.0
25°	468.3	477.5	486.7	498.3	516.1	534.9	552.1	570.5	595.6	627.6	668.1
27.5°	441.2	449.5	458.7	472.9	486.4	503.9	521.9	543.0	569.9	603.7	644.9
30°	423.8	430.1	438.6	456.8	469.0	484.1	505.2	524.0	549.1	585.0	628.5
32.5°	405.8	414.0	423.3	437.2	452.3	466.7	485.9	506.4	531.9	567.3	611.9
35°	380.2	389.8	399.3	409.6	424.7	439.6	455.7	478.2	504.2	538.6	582.4
37.5°	356.7	364.4	372.2	384.9	399.2	413.4	428.4	450.6	475.1	512.1	552.3
40°	341.6	348.6	354.5	367.7	381.6	396.7	411.6	431.0	457.4	492.1	531.0
42.5°	325.3	331.7	339.8	350.5	365.5	378.2	393.1	411.5	436.3	471.5	505.6
45°	300.7	308.0	315.0	325.2	340.0	352.5	365.8	383.2	408.6	437.6	468.0
47.5°	275.3	282.5	290.4	300.3	313.2	326.0	339.1	354.6	377.8	406.3	426.7
50°	258.9	264.8	272.8	282.6	294.5	308.0	319.9	336.7	358.8	381.3	399.1
52.5°	242.0	247.4	256.4	266.8	277.8	289.6	302.2	316.7	336.7	357.7	371.9
55°	215.7	222.3	229.9	240.0	251.0	260.9	273.0	287.9	303.8	319.5	329.2
57.5°	191.1	196.6	202.9	213.5	222.9	234.7	245.6	257.3	271.9	283.8	290.1
60°	173.1	178.1	186.3	195.5	204.5	214.6	227.2	238.8	249.9	259.5	264.5
62.5°	156.3	162.0	169.2	177.6	187.4	197.0	207.9	217.7	227.6	235.8	239.2
65°	134.2	138.9	144.1	152.1	160.0	169.9	178.4	188.3	195.5	200.2	203.1
67.5°	114.2	117.2	121.2	126.5	134.3	142.9	151.3	158.9	165.1	168.2	170.8
70°	101.3	103.2	106.2	111.5	117.4	125.0	133.5	139.1	144.5	147.1	149.7
72.5°	88.3	90.8	93.5	97.7	102.6	108.1	114.3	121.2	124.2	127.3	128.9
75°	67.0	70.6	74.2	76.8	80.2	84.5	90.1	94.3	96.0	98.6	98.9
77.5°	50.5	51.3	54.0	57.3	60.0	63.1	66.6	70.5	71.3	72.7	73.5
80°	41.6	41.6	41.6	43.6	46.8	49.2	52.4	54.4	55.7	56.1	56.4
82.5°	33.4	33.4	33.1	33.5	34.7	35.9	39.0	41.2	42.3	42.1	41.3
85°	21.8	21.1	21.1	20.8	21.1	20.4	20.1	21.4	23.4	23.4	22.7
87.5°	13.3	12.8	12.7	11.9	11.1	10.3	9.1	9.0	8.6	9.3	8.6
90°	21.5	20.8	18.3	15.8	13.3	10.8	8.5	6.6	4.7	2.8	0.9
92.5°	23.3	22.1	20.2	18.3	16.5	14.6	13.9	14.5	15.0	15.6	16.1
95°	28.2	26.8	24.7	22.6	20.5	18.3	21.3	29.1	37.0	44.9	52.8
97.5°	29.4	27.8	41.7	55.5	69.4	83.2	91.9	95.4	98.9	102.5	106.0
100°	30.0	28.5	58.5	88.5	118.5	148.4	161.5	157.6	153.9	150.0	146.1
102.5°	52.2	56.9	89.6	122.4	155.2	187.9	202.9	200.1	197.3	194.6	191.8
105°	155.4	189.4	206.7	223.9	241.3	258.6	266.1	264.1	261.9	259.8	257.7
107.5°	322.2	347.2	344.4	341.6	339.0	336.2	334.0	332.3	330.6	328.9	327.3
110°	383.7	390.0	387.9	385.8	383.7	381.6	379.7	378.2	376.7	375.1	373.6



TEST NUMBER: P332418-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	433.7	433.6	431.5	429.4	427.2	425.2	423.4	422.1	420.6	419.2	417.8
115°	498.3	496.4	494.6	492.9	491.2	489.5	488.0	486.9	485.7	484.6	483.5
117.5°	558.8	557.2	556.4	555.5	554.7	553.7	552.6	551.1	549.7	548.3	546.9
120°	598.2	596.7	596.2	595.6	595.0	594.4	593.2	591.5	589.8	588.1	586.3
122.5°	637.2	636.1	635.4	634.6	634.0	633.2	632.1	630.7	629.3	627.8	626.5
125°	692.2	691.8	691.0	690.3	689.5	688.8	687.6	686.0	684.5	683.0	681.5
127.5°	746.4	745.8	744.9	744.0	743.0	742.1	740.9	739.3	737.8	736.2	734.7
130°	779.1	778.3	777.6	776.8	776.0	775.2	774.1	772.6	771.0	769.5	767.9
132.5°	810.2	809.4	808.8	808.2	807.6	807.0	805.9	804.3	802.8	801.3	799.8
135°	857.6	857.0	856.3	855.5	854.7	853.9	853.0	851.8	850.7	849.5	848.3
137.5°	899.2	898.4	897.9	897.5	897.1	896.6	895.7	894.2	892.8	891.3	889.8
140°	926.1	925.3	924.7	924.2	923.6	923.0	922.1	921.0	919.9	918.7	917.6
142.5°	951.6	950.9	950.4	949.8	949.2	948.6	947.8	946.6	945.5	944.3	943.1
145°	987.1	986.7	986.4	985.9	985.6	985.2	984.3	983.0	981.6	980.2	979.0
147.5°	1018.7	1018.4	1018.0	1017.6	1017.2	1016.8	1016.2	1015.3	1014.4	1013.6	1012.7
150°	1038.1	1037.8	1037.3	1037.0	1036.6	1036.2	1035.7	1035.2	1034.6	1034.0	1033.5
152.5°	1055.1	1054.4	1054.1	1053.9	1053.7	1053.4	1053.2	1052.9	1052.7	1052.4	1052.1
155°	1078.5	1077.5	1077.4	1077.1	1076.9	1076.8	1076.9	1077.3	1077.6	1078.0	1078.4
157.5°	1098.9	1097.8	1097.9	1098.1	1098.4	1098.5	1098.6	1098.7	1098.7	1098.8	1098.8
160°	1110.7	1109.6	1109.7	1109.9	1110.1	1110.3	1110.5	1110.7	1110.9	1111.0	1111.3
162.5°	1121.2	1119.9	1120.1	1120.3	1120.5	1120.7	1121.0	1121.5	1122.1	1122.5	1123.0
165°	1135.3	1133.8	1133.9	1134.1	1134.3	1134.5	1134.9	1135.5	1136.1	1136.6	1137.2
167.5°	1146.3	1144.8	1144.8	1144.8	1144.8	1144.8	1145.2	1146.0	1146.8	1147.5	1148.2
170°	1152.5	1151.1	1151.1	1151.1	1151.1	1151.1	1151.4	1152.2	1153.0	1153.7	1154.5
172.5°	1156.8	1155.2	1155.0	1154.9	1154.7	1154.6	1154.9	1155.9	1156.8	1157.7	1158.6
175°	1161.9	1160.5	1160.4	1160.2	1159.9	1159.8	1160.2	1161.1	1162.1	1163.0	1164.0
177.5°	1163.9	1162.6	1162.4	1162.4	1162.2	1162.0	1162.4	1163.1	1163.9	1164.6	1165.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332418-935

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	774.6	777.5	781.2	786.7	790.9	794.6	795.4	796.5	799.1	803.6	807.0
5°	779.6	787.2	799.4	811.2	824.1	834.7	844.6	851.5	858.1	871.9	883.1
7.5°	778.0	794.9	814.0	835.3	856.9	877.8	897.2	914.6	931.9	952.0	975.0
10°	777.0	796.8	822.4	849.8	879.9	909.2	937.5	959.7	985.4	1008.5	1037.8
12.5°	772.0	800.5	831.2	866.2	903.1	936.9	974.2	1004.8	1034.1	1067.6	1101.6
15°	765.4	800.0	839.0	885.5	941.5	982.4	1020.6	1073.8	1110.0	1146.3	1195.2
17.5°	753.5	795.7	844.4	904.7	951.6	1006.5	1064.0	1106.0	1154.9	1206.0	1250.2
20°	744.0	793.2	847.6	906.9	966.6	1026.3	1082.0	1132.1	1182.6	1241.6	1277.9
22.5°	734.5	783.1	839.6	902.7	966.8	1029.7	1092.8	1151.7	1208.4	1268.0	1314.3
25°	714.3	772.0	833.4	897.7	961.0	1030.2	1105.4	1171.0	1241.3	1302.6	1346.5
27.5°	693.9	746.7	807.8	873.1	943.4	1025.3	1113.7	1188.4	1258.7	1302.6	1316.4
30°	675.4	731.4	787.5	853.8	930.0	1021.3	1115.3	1200.8	1258.4	1277.6	1263.3
32.5°	656.7	707.5	763.0	830.9	911.8	1011.6	1117.4	1193.3	1228.1	1213.5	1155.7
35°	623.6	669.4	723.2	791.2	884.2	1006.2	1108.7	1160.2	1151.6	1069.1	960.3
37.5°	588.2	625.6	675.4	746.4	855.5	984.7	1071.3	1078.8	1004.6	878.0	752.3
40°	560.3	593.9	645.1	719.3	833.4	963.6	1033.5	1002.9	887.8	746.9	642.0
42.5°	533.1	561.5	610.7	690.8	812.3	934.9	977.3	910.5	777.7	644.5	549.2
45°	487.1	513.8	563.3	645.4	769.0	879.9	874.3	758.2	625.3	518.1	438.9
47.5°	443.4	466.7	513.2	597.0	718.3	797.4	744.9	621.5	508.7	422.8	366.3
50°	412.6	435.7	481.8	564.6	677.7	735.4	660.6	541.5	438.2	367.0	322.2
52.5°	383.0	405.5	447.8	528.4	628.6	663.1	582.7	472.3	386.3	324.9	286.3
55°	341.6	358.8	396.7	473.9	548.7	556.6	475.2	382.9	311.9	269.1	242.7
57.5°	299.5	314.3	351.7	413.2	465.7	461.6	384.4	304.5	256.8	224.9	205.8
60°	272.1	286.5	319.5	372.3	411.9	398.0	327.2	262.9	222.0	198.5	183.4
62.5°	246.5	257.8	288.7	327.2	355.7	340.0	279.7	226.4	194.0	174.3	162.2
65°	209.4	218.6	243.4	263.5	279.3	264.2	214.0	177.1	153.7	139.8	131.6
67.5°	174.2	180.0	195.7	202.9	214.1	197.5	160.9	136.2	122.9	111.2	105.5
70°	152.1	156.4	164.5	170.5	173.5	156.4	129.2	111.2	100.0	91.7	88.1
72.5°	129.8	133.6	135.3	140.2	138.6	122.5	103.9	89.5	81.5	75.9	71.2
75°	99.3	100.9	99.3	97.3	93.0	81.8	69.0	61.6	55.7	53.1	51.5
77.5°	72.3	71.8	69.6	66.5	59.2	52.1	45.2	42.7	40.2	38.7	38.2
80°	55.7	54.4	52.4	47.5	41.2	36.2	34.6	33.0	32.0	30.3	30.0
82.5°	41.5	40.7	37.4	33.2	28.8	26.5	25.1	24.5	23.5	22.7	22.6
85°	22.1	21.1	17.5	15.2	14.6	13.9	13.5	13.5	12.2	11.9	11.9
87.5°	7.7	6.5	6.6	6.2	6.6	6.6	7.4	7.3	7.6	8.0	7.7
90°	2.8	4.7	6.6	8.5	10.8	13.3	15.8	18.3	20.8	21.5	22.3
92.5°	15.6	15.0	14.5	13.9	14.6	16.5	18.3	20.2	22.1	23.3	24.6
95°	44.9	37.0	29.1	21.3	18.3	20.5	22.6	24.7	26.8	28.2	29.5
97.5°	102.5	98.9	95.4	91.9	83.2	69.4	55.5	41.7	27.8	29.4	30.9
100°	150.0	153.9	157.6	161.5	148.4	118.5	88.5	58.5	28.5	30.0	31.6
102.5°	194.6	197.3	200.1	202.9	187.9	155.2	122.4	89.6	56.9	52.2	47.4
105°	259.8	261.9	264.1	266.1	258.6	241.3	223.9	206.7	189.4	155.4	121.4
107.5°	328.9	330.6	332.3	334.0	336.2	339.0	341.6	344.4	347.2	322.2	297.2
110°	375.1	376.7	378.2	379.7	381.6	383.7	385.8	387.9	390.0	383.7	377.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	419.2	420.6	422.1	423.4	425.2	427.2	429.4	431.5	433.6	433.7	433.9
115°	484.6	485.7	486.9	488.0	489.5	491.2	492.9	494.6	496.4	498.3	500.2
117.5°	548.3	549.7	551.1	552.6	553.7	554.7	555.5	556.4	557.2	558.8	560.3
120°	588.1	589.8	591.5	593.2	594.4	595.0	595.6	596.2	596.7	598.2	599.8
122.5°	627.8	629.3	630.7	632.1	633.2	634.0	634.6	635.4	636.1	637.2	638.3
125°	683.0	684.5	686.0	687.6	688.8	689.5	690.3	691.0	691.8	692.2	692.6
127.5°	736.2	737.8	739.3	740.9	742.1	743.0	744.0	744.9	745.8	746.4	747.0
130°	769.5	771.0	772.6	774.1	775.2	776.0	776.8	777.6	778.3	779.1	779.9
132.5°	801.3	802.8	804.3	805.9	807.0	807.6	808.2	808.8	809.4	810.2	811.0
135°	849.5	850.7	851.8	853.0	853.9	854.7	855.5	856.3	857.0	857.6	858.2
137.5°	891.3	892.8	894.2	895.7	896.6	897.1	897.5	897.9	898.4	899.2	900.2
140°	918.7	919.9	921.0	922.1	923.0	923.6	924.2	924.7	925.3	926.1	926.9
142.5°	944.3	945.5	946.6	947.8	948.6	949.2	949.8	950.4	950.9	951.6	952.2
145°	980.2	981.6	983.0	984.3	985.2	985.6	985.9	986.4	986.7	987.1	987.5
147.5°	1013.6	1014.4	1015.3	1016.2	1016.8	1017.2	1017.6	1018.0	1018.4	1018.7	1019.2
150°	1034.0	1034.6	1035.2	1035.7	1036.2	1036.6	1037.0	1037.3	1037.8	1038.1	1038.5
152.5°	1052.4	1052.7	1052.9	1053.2	1053.4	1053.7	1053.9	1054.1	1054.4	1055.1	1055.8
155°	1078.0	1077.6	1077.3	1076.9	1076.8	1076.9	1077.1	1077.4	1077.5	1078.5	1079.4
157.5°	1098.8	1098.7	1098.7	1098.6	1098.5	1098.4	1098.1	1097.9	1097.8	1098.9	1100.1
160°	1111.0	1110.9	1110.7	1110.5	1110.3	1110.1	1109.9	1109.7	1109.6	1110.7	1111.8
162.5°	1122.5	1122.1	1121.5	1121.0	1120.7	1120.5	1120.3	1120.1	1119.9	1121.2	1122.5
165°	1136.6	1136.1	1135.5	1134.9	1134.5	1134.3	1134.1	1133.9	1133.8	1135.3	1136.8
167.5°	1147.5	1146.8	1146.0	1145.2	1144.8	1144.8	1144.8	1144.8	1144.8	1146.3	1147.9
170°	1153.7	1153.0	1152.2	1151.4	1151.1	1151.1	1151.1	1151.1	1151.1	1152.5	1154.1
172.5°	1157.7	1156.8	1155.9	1154.9	1154.6	1154.7	1154.9	1155.0	1155.2	1156.8	1158.3
175°	1163.0	1162.1	1161.1	1160.2	1159.8	1159.9	1160.2	1160.4	1160.5	1161.9	1163.2
177.5°	1164.6	1163.9	1163.1	1162.4	1162.0	1162.2	1162.4	1162.4	1162.6	1163.9	1165.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	812.6	812.6	813.6	817.6	818.1	821.6	820.4
5°	893.0	899.3	901.6	911.5	917.5	920.1	914.8
7.5°	991.4	1009.1	1017.5	1027.9	1037.0	1039.8	1032.6
10°	1063.2	1081.7	1097.2	1106.7	1115.7	1121.5	1129.2
12.5°	1132.6	1155.3	1170.0	1183.5	1192.7	1200.2	1201.4
15°	1208.0	1242.3	1268.3	1287.5	1297.0	1302.0	1300.0
17.5°	1284.0	1315.8	1334.4	1353.8	1367.1	1367.8	1368.2
20°	1327.1	1358.1	1379.5	1394.0	1408.9	1408.2	1411.4
22.5°	1355.8	1380.2	1396.6	1407.1	1412.2	1409.7	1410.4
25°	1369.2	1376.5	1373.6	1356.7	1352.5	1337.0	1339.5
27.5°	1299.9	1265.6	1230.1	1184.4	1148.4	1119.6	1121.1
30°	1205.7	1145.0	1075.7	1017.7	965.6	951.1	920.1
32.5°	1074.0	983.0	901.9	847.8	803.1	790.9	763.9
35°	850.8	762.4	679.0	628.9	609.1	581.4	581.1
37.5°	661.3	583.5	539.4	501.8	482.1	465.3	463.6
40°	556.4	495.7	462.4	435.3	415.9	403.3	400.4
42.5°	483.0	433.9	402.7	386.0	371.0	364.5	359.7
45°	394.4	361.4	339.7	324.5	317.5	312.6	310.0
47.5°	329.9	307.8	293.0	282.9	277.2	272.1	273.5
50°	294.8	276.7	265.8	256.2	251.9	248.3	248.7
52.5°	266.6	250.3	241.5	234.6	229.3	226.7	225.4
55°	226.3	216.0	207.1	202.2	199.1	195.5	194.6
57.5°	193.0	185.0	177.8	172.2	171.5	168.0	168.4
60°	170.8	164.2	158.3	155.3	153.0	150.1	151.0
62.5°	152.7	147.1	141.6	139.2	136.9	134.7	135.2
65°	125.0	119.7	116.4	115.1	114.1	113.1	112.1
67.5°	99.6	96.3	94.3	91.4	89.5	89.1	88.1
70°	83.8	79.5	75.9	72.2	71.2	70.9	71.2
72.5°	67.2	64.4	63.5	61.6	61.5	60.6	61.2
75°	50.5	49.5	48.8	47.5	47.5	47.5	47.5
77.5°	37.2	36.6	36.2	35.9	35.6	35.1	35.1
80°	29.0	28.7	28.1	28.1	27.7	28.1	27.7
82.5°	21.9	21.9	21.2	21.2	20.8	20.7	20.8
85°	11.2	10.8	11.5	10.8	11.2	10.6	11.2
87.5°	7.7	7.9	7.7	7.8	7.7	8.3	7.8
90°	23.1	23.8	24.4	24.8	25.1	25.6	25.9
92.5°	25.8	27.0	27.8	28.0	28.2	28.5	28.7
95°	30.8	32.2	32.9	32.9	32.9	32.9	32.9
97.5°	32.5	34.0	34.9	35.0	35.2	35.5	35.6
100°	33.1	34.7	35.6	35.7	35.9	36.2	36.3
102.5°	42.6	37.8	35.6	36.0	36.3	36.7	37.0
105°	87.3	53.3	36.5	36.9	37.3	37.6	38.1
107.5°	272.3	247.4	222.1	196.4	170.8	145.2	119.5
110°	371.0	364.6	347.8	320.3	292.7	265.3	237.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	433.9	434.0	431.2	425.4	419.7	413.8	408.0
115°	502.1	504.1	505.4	506.2	507.0	507.7	508.5
117.5°	561.9	563.4	564.3	564.4	564.6	564.7	564.9
120°	601.3	602.9	603.6	603.6	603.6	603.6	603.6
122.5°	639.4	640.4	641.1	641.2	641.4	641.5	641.7
125°	693.0	693.4	693.8	694.1	694.5	694.9	695.3
127.5°	747.6	748.3	748.4	748.0	747.6	747.3	746.8
130°	780.6	781.4	781.6	781.2	780.8	780.4	780.1
132.5°	811.8	812.5	812.6	812.1	811.6	811.1	810.5
135°	858.8	859.3	859.3	858.8	858.2	857.6	857.0
137.5°	901.1	902.1	902.3	901.9	901.6	901.1	900.8
140°	927.6	928.4	928.6	928.2	927.8	927.5	927.0
142.5°	952.8	953.4	953.4	952.9	952.4	951.8	951.2
145°	987.9	988.3	988.4	988.4	988.4	988.4	988.4
147.5°	1019.5	1019.9	1019.7	1018.8	1017.9	1017.0	1016.2
150°	1038.9	1039.3	1039.2	1038.6	1038.0	1037.5	1036.9
152.5°	1056.4	1057.1	1057.0	1056.1	1055.2	1054.4	1053.5
155°	1080.4	1081.4	1081.2	1080.1	1079.0	1077.8	1076.7
157.5°	1101.2	1102.3	1102.2	1100.7	1099.2	1097.7	1096.2
160°	1113.0	1114.1	1114.0	1112.7	1111.4	1110.0	1108.6
162.5°	1123.9	1125.2	1125.2	1124.0	1122.8	1121.6	1120.4
165°	1138.3	1139.9	1140.0	1138.7	1137.3	1135.9	1134.6
167.5°	1149.4	1151.0	1151.0	1149.4	1147.9	1146.3	1144.8
170°	1155.6	1157.2	1157.2	1155.6	1154.1	1152.5	1151.1
172.5°	1159.8	1161.3	1161.2	1159.6	1157.9	1156.2	1154.5
175°	1164.6	1166.0	1165.9	1164.3	1162.8	1161.2	1159.7
177.5°	1166.3	1167.5	1167.4	1165.9	1164.3	1162.8	1161.2
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0

(END OF REPORT)