

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: P331902-940

Luminaire Tested: **S123DIP-S340D1195U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331902-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S340D1195U940-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4952.2 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

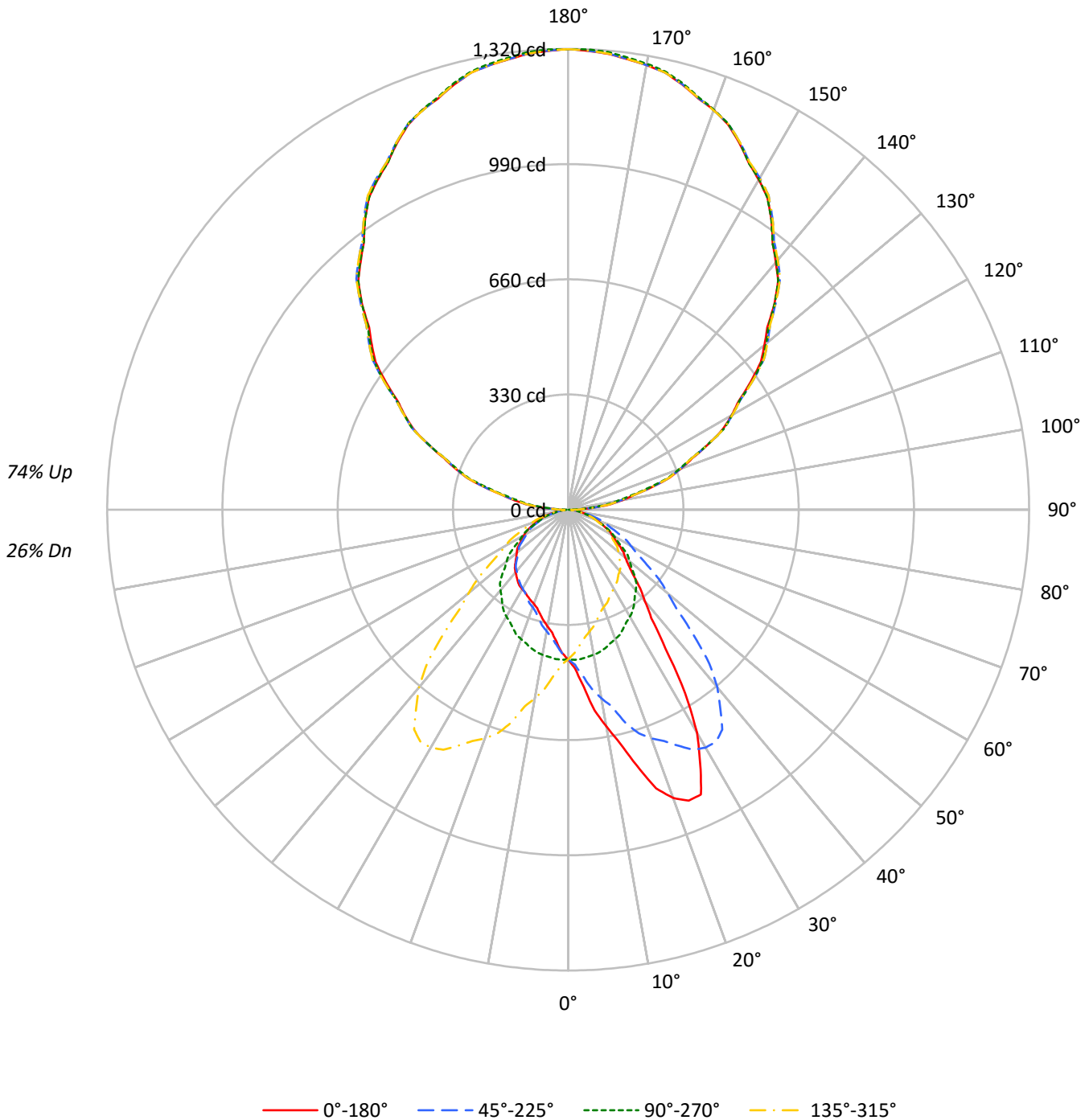
Input Watts (W): 42.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	93	88	85	81	82	79	76	73	61	59	58	45	44	43	30	30	29	22
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	68	61	55	50	48	44	40	35	33	31	24	22	21	16
4	70	60	53	47	63	54	48	43	42	38	34	32	29	26	21	20	18	14
5	65	53	46	40	57	48	41	36	38	33	29	28	25	23	19	17	16	12
6	59	48	40	35	53	43	36	32	34	29	26	25	22	20	18	16	14	11
7	55	43	35	30	49	39	32	28	31	26	22	23	20	17	16	14	12	10
8	51	39	32	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	13	11	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	12	10	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4614	4614	4614	4614
5°	5503	4635	4107	4635
10°	6889	4612	3711	4612
15°	8449	4574	3455	4574
20°	10065	4517	3289	4517
25°	10688	4445	3252	4445
30°	9161	4395	3269	4395
35°	6370	4322	3303	4322
40°	4799	4235	3292	4235
45°	3984	4107	3252	4107
50°	3569	3848	3220	3848
55°	3337	3567	3181	3567
60°	3130	3272	3147	3272
65°	2942	2985	3049	2985
70°	2760	2656	2902	2656
75°	2470	2325	2662	2325
80°	2163	1909	2294	1909
85°	1692	1383	1544	1383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.2	0.9
10°-20°	135.4	2.7
20°-30°	227.3	4.6
30°-40°	257.4	5.2
40°-50°	230.8	4.7
50°-60°	186.3	3.8
60°-70°	129.8	2.6
70°-80°	68.2	1.4
80°-90°	20.6	0.4
90°-100°	85.9	1.7
100°-110°	257.2	5.2
110°-120°	437.4	8.8
120°-130°	575.3	11.6
130°-140°	646.7	13.1
140°-150°	635.6	12.8
150°-160°	535.1	10.8
160°-170°	356.2	7.2
170°-180°	124.7	2.5
0°-30°	405.0	8.2
0°-40°	662.4	13.4
0°-60°	1079.4	21.8
0°-90°	1298.0	26.2
90°-120°	780.5	15.8
90°-150°	2638.1	53.3
90°-180°	3654.0	73.8
0°-180°	4952.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	429	429	429	429	429	
5°	509	429	380	429	509	53
15°	758	410	310	410	758	219
25°	900	374	274	374	900	395
35°	485	329	251	329	485	315
45°	262	270	214	270	262	207
55°	178	190	170	190	178	160
65°	116	117	120	117	116	115
75°	59	56	64	56	59	64
85°	14	11	12	11	14	17
90°	31	1	31	1	31	16
95°	81	61	81	61	81	83
105°	247	233	247	233	247	262
115°	441	440	441	440	441	437
125°	637	644	637	644	637	570
135°	835	836	835	836	835	642
145°	1014	1014	1014	1014	1014	633
155°	1159	1162	1159	1162	1159	534
165°	1261	1265	1261	1265	1261	356
175°	1311	1316	1311	1316	1311	124
180°	1319	1319	1319	1319	1319	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	455.0	454.7	453.9	454.5	453.2	451.4	451.2	449.5	444.7	444.4	443.1
5°	509.3	507.7	507.5	507.3	504.4	500.4	492.9	492.3	482.3	477.4	471.4
7.5°	579.8	580.6	577.6	575.0	566.1	560.2	552.1	541.9	529.7	517.2	509.0
10°	630.3	637.1	628.7	622.8	617.4	607.3	595.4	580.6	565.9	548.7	535.6
12.5°	684.5	687.8	686.1	680.6	672.3	656.7	635.8	619.5	605.9	577.2	565.6
15°	758.2	770.9	762.8	744.1	744.5	729.8	702.4	672.3	656.2	631.1	596.8
17.5°	836.9	838.4	835.0	819.4	809.0	788.7	763.4	734.6	702.1	671.7	635.3
20°	878.7	877.4	870.2	862.1	844.3	828.5	800.8	768.7	727.1	697.1	657.5
22.5°	902.0	899.9	896.4	889.7	874.9	857.9	833.0	797.9	758.3	717.1	671.3
25°	899.9	902.6	903.0	901.2	896.0	885.8	866.3	838.2	798.8	745.7	698.0
27.5°	818.5	822.3	833.4	843.3	854.3	865.5	864.0	850.1	820.8	775.1	716.7
30°	737.1	728.7	749.3	775.3	792.9	824.1	841.5	842.6	826.2	786.9	730.0
32.5°	624.0	633.2	642.3	674.2	712.8	747.8	782.6	810.5	813.7	787.6	737.8
35°	484.8	496.3	512.9	529.5	571.1	606.8	667.9	721.0	763.4	769.0	738.5
37.5°	390.7	396.4	406.9	423.6	450.7	493.1	540.3	607.5	669.0	714.6	716.6
40°	341.5	343.2	355.0	367.7	389.7	424.6	467.2	526.6	600.1	664.0	690.5
42.5°	304.6	308.3	313.3	325.5	343.0	369.3	408.8	458.0	525.4	598.8	650.8
45°	261.7	265.9	269.0	277.1	289.6	307.3	334.8	379.8	431.1	506.8	576.8
47.5°	233.4	233.7	236.0	242.2	250.7	263.9	283.5	312.3	359.4	420.9	492.8
50°	213.1	216.4	217.3	222.0	228.7	238.4	254.7	279.2	317.8	371.8	437.9
52.5°	198.9	199.8	202.2	205.6	211.4	219.0	233.1	252.3	282.6	328.7	389.4
55°	177.8	177.8	180.1	182.8	186.1	193.0	202.3	216.4	239.5	275.3	325.6
57.5°	158.4	159.4	161.0	161.8	164.7	169.2	177.0	187.8	204.9	232.5	272.4
60°	145.4	147.3	147.0	148.7	151.2	154.8	161.4	170.1	185.5	207.5	241.2
62.5°	134.1	134.0	133.9	136.0	138.4	141.8	146.2	153.6	166.7	186.3	214.9
65°	115.5	115.1	116.5	117.8	118.6	121.1	124.4	131.1	139.8	154.4	176.6
67.5°	99.0	97.7	98.5	99.0	100.4	102.4	105.5	109.6	116.5	128.1	144.9
70°	87.7	86.6	86.4	86.9	88.1	89.5	91.8	95.8	102.2	111.6	123.8
72.5°	76.1	75.3	75.3	76.2	76.8	77.8	79.4	82.9	88.1	95.1	106.6
75°	59.4	59.4	59.4	59.7	60.3	61.1	62.3	64.2	68.1	73.1	80.8
77.5°	44.5	44.5	44.2	44.2	45.1	45.5	45.7	47.5	49.8	53.1	58.7
80°	34.9	33.9	34.2	34.9	35.3	35.5	36.1	36.6	38.4	40.3	44.2
82.5°	25.9	25.1	25.1	26.1	26.2	26.4	27.0	27.6	28.3	30.0	32.1
85°	13.7	13.7	13.9	13.9	14.1	13.9	14.5	14.7	14.7	15.8	17.0
87.5°	11.2	10.8	10.9	11.0	10.7	10.7	10.7	10.7	10.6	10.6	10.2
90°	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.8	25.8	24.9	21.8
92.5°	41.8	42.1	42.4	42.7	43.0	42.7	42.0	41.3	40.5	39.8	38.1
95°	80.8	80.8	80.8	80.8	80.8	80.3	79.5	78.5	77.6	76.7	74.8
97.5°	124.3	124.4	124.5	124.6	124.7	124.2	123.1	122.1	121.0	119.9	118.6
100°	157.5	157.0	156.6	156.1	155.6	155.1	154.4	153.6	153.0	152.3	151.1
102.5°	191.5	191.5	191.6	191.7	191.8	191.5	190.8	190.1	189.5	188.8	187.3
105°	246.6	246.1	245.7	245.2	244.8	244.5	244.5	244.5	244.5	244.5	242.5
107.5°	304.0	304.3	304.5	304.8	305.1	304.9	304.2	303.4	302.6	301.9	301.0
110°	343.0	343.4	343.8	344.3	344.7	344.6	343.7	342.7	341.8	340.9	340.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	384.4	384.5	384.6	384.7	384.8	384.2	383.2	382.0	380.9	379.8	379.7
115°	441.4	441.6	441.8	442.0	442.3	442.3	442.0	441.8	441.6	441.4	441.8
117.5°	499.2	499.8	500.4	501.1	501.8	502.1	502.1	502.2	502.2	502.3	502.9
120°	539.8	540.3	540.7	541.2	541.6	542.0	542.2	542.4	542.7	542.9	544.0
122.5°	578.7	579.3	580.1	580.7	581.3	581.9	582.6	583.2	583.7	584.3	585.0
125°	637.2	638.1	639.0	640.0	640.9	641.8	642.7	643.6	644.5	645.5	646.0
127.5°	695.4	696.4	697.5	698.6	699.6	700.8	702.1	703.4	704.7	706.0	706.5
130°	733.5	735.1	736.7	738.3	739.9	741.3	742.2	743.1	744.0	744.9	745.6
132.5°	773.3	774.5	775.8	777.0	778.3	779.4	780.6	781.7	782.7	783.9	784.3
135°	835.1	835.5	836.0	836.4	836.9	837.6	838.5	839.5	840.3	841.2	841.5
137.5°	889.6	890.5	891.4	892.2	893.0	893.9	894.9	895.9	896.9	897.9	897.2
140°	925.2	926.8	928.4	930.1	931.7	932.6	932.8	933.0	933.3	933.5	933.3
142.5°	961.7	963.0	964.1	965.4	966.6	967.4	967.6	967.9	968.0	968.3	967.9
145°	1014.3	1015.2	1016.1	1017.1	1018.0	1018.6	1018.8	1019.0	1019.2	1019.5	1018.8
147.5°	1061.1	1062.5	1063.9	1065.2	1066.7	1067.4	1067.4	1067.4	1067.4	1067.4	1066.7
150°	1091.0	1092.3	1093.8	1095.1	1096.5	1097.2	1097.2	1097.2	1097.2	1097.2	1096.7
152.5°	1120.0	1121.1	1122.4	1123.6	1124.8	1125.2	1124.8	1124.4	1124.1	1123.7	1123.5
155°	1159.3	1161.0	1162.6	1164.2	1165.8	1166.2	1165.2	1164.3	1163.4	1162.4	1162.3
157.5°	1195.2	1196.5	1197.7	1199.1	1200.3	1200.5	1199.5	1198.5	1197.7	1196.7	1196.5
160°	1218.4	1219.3	1220.2	1221.2	1222.1	1222.0	1220.8	1219.7	1218.5	1217.4	1217.4
162.5°	1235.8	1237.2	1238.8	1240.2	1241.7	1241.9	1240.7	1239.6	1238.4	1237.2	1237.1
165°	1260.9	1262.5	1264.1	1265.7	1267.3	1267.5	1266.1	1264.7	1263.3	1261.9	1261.9
167.5°	1282.2	1283.6	1285.0	1286.5	1287.9	1287.9	1286.5	1285.0	1283.6	1282.2	1282.0
170°	1293.0	1294.6	1296.2	1297.9	1299.5	1299.5	1297.9	1296.2	1294.6	1293.0	1293.0
172.5°	1301.3	1302.9	1304.5	1306.1	1307.8	1307.9	1306.4	1305.0	1303.6	1302.2	1302.2
175°	1310.6	1312.2	1313.8	1315.5	1317.1	1317.1	1315.8	1314.4	1313.0	1311.6	1311.6
177.5°	1315.6	1316.9	1318.1	1319.5	1320.7	1320.8	1319.7	1318.7	1317.5	1316.4	1316.4
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	442.0	440.8	439.4	437.1	435.1	432.3	431.4	430.4	427.4	424.8	422.8
5°	469.0	464.0	456.8	450.1	444.8	437.5	433.4	429.0	422.8	417.1	412.6
7.5°	497.3	487.5	476.2	464.0	452.6	441.7	432.8	424.9	416.2	408.0	401.4
10°	519.8	505.6	489.8	472.8	458.3	444.2	432.3	422.0	410.7	400.9	392.8
12.5°	545.4	524.4	502.7	482.0	464.8	445.1	430.8	417.6	404.8	393.2	384.1
15°	575.6	549.0	523.3	494.8	468.7	444.2	427.1	410.5	395.7	383.7	372.0
17.5°	603.2	573.1	539.1	504.5	473.0	443.9	420.1	401.3	382.8	368.1	356.5
20°	618.8	584.6	546.2	510.2	475.3	442.9	416.7	394.3	374.3	358.7	345.7
22.5°	632.3	592.2	552.4	514.0	475.1	440.2	410.5	387.4	365.9	350.6	336.7
25°	646.3	598.2	558.4	513.4	469.9	433.7	400.6	374.3	352.8	334.8	320.6
27.5°	658.3	597.9	550.5	502.0	461.6	425.4	389.9	361.9	338.9	319.5	305.0
30°	666.2	598.7	542.4	494.5	453.7	416.3	381.8	353.6	329.5	309.8	296.0
32.5°	671.2	598.2	534.9	483.8	441.0	408.0	373.0	343.8	319.0	299.6	286.4
35°	674.1	594.5	522.0	461.8	420.7	388.4	359.2	328.9	302.9	284.8	269.8
37.5°	668.2	586.8	507.1	440.6	395.6	363.9	339.2	313.4	288.6	268.7	255.7
40°	659.2	581.8	495.4	425.6	378.3	347.8	326.8	301.4	276.9	258.0	245.9
42.5°	641.7	571.8	482.7	409.0	360.3	329.8	310.5	289.3	266.1	248.3	236.3
45°	599.1	549.7	463.4	384.1	333.9	302.3	285.3	269.8	248.9	231.7	221.2
47.5°	540.0	516.5	435.7	357.8	306.1	275.8	258.1	245.8	230.4	216.4	206.5
50°	499.0	489.2	417.0	339.8	287.8	258.0	240.9	229.8	218.7	204.8	195.7
52.5°	451.7	457.6	395.0	321.3	268.9	239.7	223.7	214.8	204.8	193.3	185.4
55°	385.0	406.7	357.1	290.0	240.9	213.1	198.0	190.1	184.2	175.8	168.9
57.5°	322.5	350.3	316.1	257.8	213.5	189.5	175.0	166.4	162.6	158.2	152.8
60°	285.4	312.8	286.9	236.2	195.1	172.2	159.3	152.0	148.3	145.2	140.6
62.5°	252.4	280.1	258.3	214.3	176.9	155.8	144.5	137.4	134.6	133.0	129.0
65°	206.9	230.8	216.2	180.1	151.1	132.3	122.2	117.2	114.5	113.9	111.4
67.5°	168.4	186.5	176.0	149.4	126.5	110.4	101.7	97.5	95.4	95.1	93.3
70°	143.1	160.2	152.0	128.0	108.3	95.6	88.1	84.4	83.1	82.9	81.9
72.5°	123.5	135.4	128.9	108.9	93.6	82.1	76.6	72.7	71.3	71.6	70.9
75°	91.4	100.3	96.6	82.7	70.4	63.0	58.4	55.9	54.7	55.3	54.4
77.5°	65.8	71.4	68.0	58.4	50.8	45.5	42.1	40.6	39.4	39.4	39.1
80°	49.7	53.0	51.1	45.3	39.1	34.5	31.7	30.8	30.1	29.9	29.7
82.5°	35.4	38.2	35.9	32.0	27.7	25.0	23.5	22.1	21.7	21.8	21.6
85°	17.8	18.9	18.1	15.6	13.9	12.7	11.9	11.2	10.8	11.0	10.6
87.5°	9.9	9.5	8.4	7.2	6.4	5.4	5.0	4.2	4.3	4.8	5.1
90°	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1	3.3	5.6	7.9
92.5°	36.4	34.7	33.0	31.3	29.8	28.2	26.7	25.1	26.7	28.2	29.8
95°	72.9	71.2	69.3	67.6	66.0	64.4	62.8	61.2	62.8	64.4	66.0
97.5°	117.3	116.0	114.7	113.3	112.2	111.0	109.8	108.6	109.8	111.0	112.2
100°	150.0	148.8	147.7	146.4	145.1	143.7	142.3	140.9	142.3	143.7	145.1
102.5°	185.7	184.2	182.7	181.6	180.7	179.9	179.1	178.2	179.1	179.9	180.7
105°	240.4	238.3	236.2	235.0	234.5	234.1	233.5	233.1	233.5	234.1	234.5
107.5°	300.2	299.4	298.6	298.0	297.7	297.5	297.2	296.9	297.2	297.5	297.7
110°	339.9	339.5	339.0	338.6	338.1	337.6	337.2	336.7	337.2	337.6	338.1





TEST NUMBER: P331902-940

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	379.6	379.5	379.4	379.2	379.0	378.7	378.4	378.2	378.4	378.7	379.0
115°	442.3	442.7	443.2	443.1	442.4	441.7	441.0	440.3	441.0	441.7	442.4
117.5°	503.5	504.1	504.7	504.7	504.3	503.8	503.4	502.9	503.4	503.8	504.3
120°	545.2	546.4	547.5	547.4	546.0	544.7	543.2	541.9	543.2	544.7	546.0
122.5°	585.5	586.1	586.7	586.6	585.5	584.5	583.4	582.5	583.4	584.5	585.5
125°	646.4	646.8	647.3	647.2	646.5	645.8	645.2	644.4	645.2	645.8	646.5
127.5°	706.9	707.5	708.0	707.5	706.1	704.5	703.1	701.6	703.1	704.5	706.1
130°	746.3	747.0	747.7	747.1	745.3	743.4	741.5	739.8	741.5	743.4	745.3
132.5°	784.9	785.4	786.0	785.2	783.4	781.6	779.7	777.8	779.7	781.6	783.4
135°	841.8	842.0	842.2	841.6	840.3	838.8	837.5	836.1	837.5	838.8	840.3
137.5°	896.6	896.1	895.5	894.6	893.4	892.2	891.1	890.0	891.1	892.2	893.4
140°	933.0	932.8	932.6	931.8	930.8	929.6	928.4	927.3	928.4	929.6	930.8
142.5°	967.5	967.1	966.6	965.9	964.7	963.6	962.4	961.3	962.4	963.6	964.7
145°	1018.1	1017.4	1016.7	1016.1	1015.7	1015.2	1014.8	1014.3	1014.8	1015.2	1015.7
147.5°	1066.0	1065.4	1064.8	1064.1	1063.2	1062.4	1061.6	1060.7	1061.6	1062.4	1063.2
150°	1096.3	1095.8	1095.4	1094.9	1094.4	1094.0	1093.5	1093.1	1093.5	1094.0	1094.4
152.5°	1123.2	1122.8	1122.6	1122.1	1121.5	1120.9	1120.3	1119.5	1120.3	1120.9	1121.5
155°	1162.0	1161.8	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5
157.5°	1196.3	1196.1	1195.9	1196.0	1196.2	1196.5	1196.8	1197.0	1196.8	1196.5	1196.2
160°	1217.4	1217.4	1217.4	1217.6	1218.1	1218.5	1219.0	1219.4	1219.0	1218.5	1218.1
162.5°	1236.9	1236.7	1236.5	1236.8	1237.4	1238.1	1238.7	1239.3	1238.7	1238.1	1237.4
165°	1261.9	1261.9	1261.9	1262.3	1262.9	1263.6	1264.4	1265.1	1264.4	1263.6	1262.9
167.5°	1281.8	1281.7	1281.5	1281.8	1282.8	1283.7	1284.6	1285.6	1284.6	1283.7	1282.8
170°	1293.0	1293.0	1293.0	1293.4	1294.4	1295.3	1296.2	1297.2	1296.2	1295.3	1294.4
172.5°	1302.2	1302.2	1302.2	1302.6	1303.5	1304.4	1305.4	1306.3	1305.4	1304.4	1303.5
175°	1311.6	1311.6	1311.6	1312.2	1313.0	1313.9	1314.9	1315.8	1314.9	1313.9	1313.0
177.5°	1316.4	1316.4	1316.4	1316.8	1317.5	1318.3	1319.0	1319.7	1319.0	1318.3	1317.5
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



TEST NUMBER: P331902-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	421.6	420.4	418.8	416.3	414.3	411.2	411.2	411.6	411.6	411.5	411.2
5°	408.8	405.7	402.0	397.6	393.1	388.4	387.6	385.9	384.8	383.9	382.9
7.5°	395.3	389.8	384.3	378.3	372.6	368.1	364.9	362.2	360.5	358.6	357.3
10°	386.2	379.3	372.9	366.5	359.4	353.7	350.3	347.8	345.9	344.2	343.4
12.5°	375.4	367.6	360.4	354.3	346.6	340.8	337.4	336.3	334.1	330.6	328.8
15°	359.6	352.3	343.8	334.5	330.7	323.7	319.7	317.8	316.6	313.9	313.1
17.5°	346.1	336.6	327.0	320.0	313.1	307.4	305.1	302.8	301.2	299.0	298.3
20°	335.3	326.8	318.1	310.6	303.3	297.0	295.2	293.6	291.9	290.9	290.0
22.5°	324.3	315.8	308.5	301.6	293.8	289.7	287.8	285.9	284.7	284.0	283.2
25°	308.9	301.4	293.3	287.1	280.9	278.1	276.9	275.9	275.0	274.0	273.8
27.5°	295.2	287.0	280.4	274.6	270.1	267.9	266.6	266.2	266.4	266.7	267.0
30°	284.8	277.3	272.0	267.0	262.8	260.7	260.5	260.5	261.4	261.5	262.0
32.5°	275.4	269.2	263.8	259.0	255.8	254.4	255.2	255.2	255.8	256.4	257.2
35°	261.5	256.1	252.0	247.8	245.1	245.8	246.2	246.6	247.6	248.9	249.7
37.5°	248.3	243.7	239.3	236.1	234.9	235.9	237.0	237.8	239.1	240.0	240.9
40°	238.9	235.3	231.2	228.3	228.7	229.3	230.2	231.2	232.3	232.9	233.7
42.5°	230.1	226.4	223.2	220.8	221.4	222.2	222.7	223.2	224.4	225.6	226.0
45°	216.7	213.7	210.9	209.4	209.8	210.3	210.6	211.2	212.3	213.1	213.4
47.5°	201.6	199.6	197.6	196.2	196.9	196.7	197.2	198.6	198.9	199.4	200.5
50°	192.0	190.1	187.8	187.3	187.3	187.3	187.6	189.2	189.2	190.1	190.9
52.5°	181.3	180.1	178.7	177.9	177.5	177.5	178.4	179.2	179.6	180.7	181.6
55°	165.6	164.3	163.1	162.5	162.0	162.5	164.1	164.5	165.6	166.2	166.8
57.5°	149.2	148.2	147.2	146.9	146.8	147.3	148.2	149.5	149.7	151.7	152.6
60°	138.4	136.9	136.1	136.1	135.6	137.5	137.1	139.2	139.6	140.9	142.3
62.5°	127.2	125.3	124.9	124.9	125.6	126.1	126.6	127.5	128.7	130.2	131.3
65°	109.2	108.3	109.7	109.5	109.1	110.3	110.3	111.4	112.6	114.0	116.4
67.5°	92.3	91.8	91.8	91.8	92.5	93.2	93.8	94.7	96.2	97.7	99.2
70°	80.8	81.4	80.4	81.2	81.9	82.0	82.5	83.7	85.3	86.4	88.1
72.5°	69.6	69.6	69.7	70.1	70.7	71.1	71.5	72.9	74.7	75.6	77.0
75°	53.6	53.4	54.0	54.0	55.0	55.5	55.9	56.5	58.1	59.4	60.5
77.5°	39.1	39.4	39.2	39.9	39.7	39.8	41.0	41.6	41.8	44.3	44.9
80°	29.5	29.9	30.1	30.3	30.5	30.1	31.6	32.2	32.2	33.6	34.7
82.5°	21.2	21.4	21.9	22.2	22.2	22.6	22.7	23.2	23.7	24.3	25.7
85°	10.6	11.2	11.4	11.2	11.4	11.0	11.6	11.9	12.0	12.0	12.0
87.5°	5.4	6.1	6.5	7.2	7.7	8.5	8.6	8.5	8.6	9.4	8.8
90°	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.8	27.6	28.5	29.2
92.5°	31.3	33.0	34.7	36.4	38.1	39.8	40.5	41.3	42.0	42.7	43.0
95°	67.6	69.3	71.2	72.9	74.8	76.7	77.6	78.5	79.5	80.3	80.8
97.5°	113.3	114.7	116.0	117.3	118.6	119.9	121.0	122.1	123.1	124.2	124.7
100°	146.4	147.7	148.8	150.0	151.1	152.3	153.0	153.6	154.4	155.1	155.6
102.5°	181.6	182.7	184.2	185.7	187.3	188.8	189.5	190.1	190.8	191.5	191.8
105°	235.0	236.2	238.3	240.4	242.5	244.5	244.5	244.5	244.5	244.5	244.8
107.5°	298.0	298.6	299.4	300.2	301.0	301.9	302.6	303.4	304.2	304.9	305.1
110°	338.6	339.0	339.5	339.9	340.4	340.9	341.8	342.7	343.7	344.6	344.7



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	379.2	379.4	379.5	379.6	379.7	379.8	380.9	382.0	383.2	384.2	384.8
115°	443.1	443.2	442.7	442.3	441.8	441.4	441.6	441.8	442.0	442.3	442.3
117.5°	504.7	504.7	504.1	503.5	502.9	502.3	502.2	502.2	502.1	502.1	501.8
120°	547.4	547.5	546.4	545.2	544.0	542.9	542.7	542.4	542.2	542.0	541.6
122.5°	586.6	586.7	586.1	585.5	585.0	584.3	583.7	583.2	582.6	581.9	581.3
125°	647.2	647.3	646.8	646.4	646.0	645.5	644.5	643.6	642.7	641.8	640.9
127.5°	707.5	708.0	707.5	706.9	706.5	706.0	704.7	703.4	702.1	700.8	699.6
130°	747.1	747.7	747.0	746.3	745.6	744.9	744.0	743.1	742.2	741.3	739.9
132.5°	785.2	786.0	785.4	784.9	784.3	783.9	782.7	781.7	780.6	779.4	778.3
135°	841.6	842.2	842.0	841.8	841.5	841.2	840.3	839.5	838.5	837.6	836.9
137.5°	894.6	895.5	896.1	896.6	897.2	897.9	896.9	895.9	894.9	893.9	893.0
140°	931.8	932.6	932.8	933.0	933.3	933.5	933.3	933.0	932.8	932.6	931.7
142.5°	965.9	966.6	967.1	967.5	967.9	968.3	968.0	967.9	967.6	967.4	966.6
145°	1016.1	1016.7	1017.4	1018.1	1018.8	1019.5	1019.2	1019.0	1018.8	1018.6	1018.0
147.5°	1064.1	1064.8	1065.4	1066.0	1066.7	1067.4	1067.4	1067.4	1067.4	1067.4	1066.7
150°	1094.9	1095.4	1095.8	1096.3	1096.7	1097.2	1097.2	1097.2	1097.2	1097.2	1096.5
152.5°	1122.1	1122.6	1122.8	1123.2	1123.5	1123.7	1124.1	1124.4	1124.8	1125.2	1124.8
155°	1161.5	1161.5	1161.8	1162.0	1162.3	1162.4	1163.4	1164.3	1165.2	1166.2	1165.8
157.5°	1196.0	1195.9	1196.1	1196.3	1196.5	1196.7	1197.7	1198.5	1199.5	1200.5	1200.3
160°	1217.6	1217.4	1217.4	1217.4	1217.4	1217.4	1218.5	1219.7	1220.8	1222.0	1222.1
162.5°	1236.8	1236.5	1236.7	1236.9	1237.1	1237.2	1238.4	1239.6	1240.7	1241.9	1241.7
165°	1262.3	1261.9	1261.9	1261.9	1261.9	1261.9	1263.3	1264.7	1266.1	1267.5	1267.3
167.5°	1281.8	1281.5	1281.7	1281.8	1282.0	1282.2	1283.6	1285.0	1286.5	1287.9	1287.9
170°	1293.4	1293.0	1293.0	1293.0	1293.0	1293.0	1294.6	1296.2	1297.9	1299.5	1299.5
172.5°	1302.6	1302.2	1302.2	1302.2	1302.2	1302.2	1303.6	1305.0	1306.4	1307.9	1307.8
175°	1312.2	1311.6	1311.6	1311.6	1311.6	1311.6	1313.0	1314.4	1315.8	1317.1	1317.1
177.5°	1316.8	1316.4	1316.4	1316.4	1316.4	1316.4	1317.5	1318.7	1319.7	1320.8	1320.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



TEST NUMBER: P331902-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	410.0	409.8	411.0	410.2	411.0	409.8	410.0	411.2	411.5	411.6	411.6
5°	381.7	382.3	380.1	380.1	380.1	382.3	381.7	382.9	383.9	384.8	385.9
7.5°	356.3	355.4	355.5	354.4	355.5	355.4	356.3	357.3	358.6	360.5	362.2
10°	340.9	339.7	339.2	339.5	339.2	339.7	340.9	343.4	344.2	345.9	347.8
12.5°	328.1	327.9	325.1	325.1	325.1	327.9	328.1	328.8	330.6	334.1	336.3
15°	313.1	309.2	308.7	310.0	308.7	309.2	313.1	313.1	313.9	316.6	317.8
17.5°	298.0	295.9	296.0	295.4	296.0	295.9	298.0	298.3	299.0	301.2	302.8
20°	290.0	288.7	288.6	287.1	288.6	288.7	290.0	290.0	290.9	291.9	293.6
22.5°	282.7	282.3	282.4	280.8	282.4	282.3	282.7	283.2	284.0	284.7	285.9
25°	273.6	274.6	273.8	273.8	273.8	274.6	273.6	273.8	274.0	275.0	275.9
27.5°	267.4	267.4	267.0	267.0	267.0	267.4	267.4	267.0	266.7	266.4	266.2
30°	262.8	262.6	263.0	263.0	263.0	262.6	262.8	262.0	261.5	261.4	260.5
32.5°	258.2	258.4	258.5	258.7	258.5	258.4	258.2	257.2	256.4	255.8	255.2
35°	250.9	251.2	251.8	251.4	251.8	251.2	250.9	249.7	248.9	247.6	246.6
37.5°	241.2	242.2	242.0	242.3	242.0	242.2	241.2	240.9	240.0	239.1	237.8
40°	233.9	234.5	234.3	234.3	234.3	234.5	233.9	233.7	232.9	232.3	231.2
42.5°	226.4	226.9	226.3	226.0	226.3	226.9	226.4	226.0	225.6	224.4	223.2
45°	214.2	213.7	214.4	213.6	214.4	213.7	214.2	213.4	213.1	212.3	211.2
47.5°	200.5	200.9	201.1	201.7	201.1	200.9	200.5	200.5	199.4	198.9	198.6
50°	191.4	192.6	192.6	192.3	192.6	192.6	191.4	190.9	190.1	189.2	189.2
52.5°	182.4	182.9	183.8	183.7	183.8	182.9	182.4	181.6	180.7	179.6	179.2
55°	168.4	168.9	169.3	169.5	169.3	168.9	168.4	166.8	166.2	165.6	164.5
57.5°	154.1	153.9	154.9	155.2	154.9	153.9	154.1	152.6	151.7	149.7	149.5
60°	143.9	143.9	145.6	146.2	145.6	143.9	143.9	142.3	140.9	139.6	139.2
62.5°	133.1	133.8	135.5	134.6	135.5	133.8	133.1	131.3	130.2	128.7	127.5
65°	117.3	119.0	118.9	119.7	118.9	119.0	117.3	116.4	114.0	112.6	111.4
67.5°	100.9	101.9	103.4	103.5	103.4	101.9	100.9	99.2	97.7	96.2	94.7
70°	89.7	90.8	91.6	92.2	91.6	90.8	89.7	88.1	86.4	85.3	83.7
72.5°	78.9	79.5	81.5	80.6	81.5	79.5	78.9	77.0	75.6	74.7	72.9
75°	61.9	63.4	64.6	64.0	64.6	63.4	61.9	60.5	59.4	58.1	56.5
77.5°	45.7	47.3	47.8	47.3	47.8	47.3	45.7	44.9	44.3	41.8	41.6
80°	36.1	35.9	37.2	37.0	37.2	35.9	36.1	34.7	33.6	32.2	32.2
82.5°	26.5	26.3	26.8	27.0	26.8	26.3	26.5	25.7	24.3	23.7	23.2
85°	12.8	13.5	12.7	12.5	12.7	13.5	12.8	12.0	12.0	12.0	11.9
87.5°	8.9	9.0	8.9	8.9	8.9	9.0	8.9	8.8	9.4	8.6	8.5
90°	29.7	30.1	30.6	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.8
92.5°	42.7	42.4	42.1	41.8	42.1	42.4	42.7	43.0	42.7	42.0	41.3
95°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.3	79.5	78.5
97.5°	124.6	124.5	124.4	124.3	124.4	124.5	124.6	124.7	124.2	123.1	122.1
100°	156.1	156.6	157.0	157.5	157.0	156.6	156.1	155.6	155.1	154.4	153.6
102.5°	191.7	191.6	191.5	191.5	191.5	191.6	191.7	191.8	191.5	190.8	190.1
105°	245.2	245.7	246.1	246.6	246.1	245.7	245.2	244.8	244.5	244.5	244.5
107.5°	304.8	304.5	304.3	304.0	304.3	304.5	304.8	305.1	304.9	304.2	303.4
110°	344.3	343.8	343.4	343.0	343.4	343.8	344.3	344.7	344.6	343.7	342.7



TEST NUMBER: P331902-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	384.7	384.6	384.5	384.4	384.5	384.6	384.7	384.8	384.2	383.2	382.0
115°	442.0	441.8	441.6	441.4	441.6	441.8	442.0	442.3	442.3	442.0	441.8
117.5°	501.1	500.4	499.8	499.2	499.8	500.4	501.1	501.8	502.1	502.1	502.2
120°	541.2	540.7	540.3	539.8	540.3	540.7	541.2	541.6	542.0	542.2	542.4
122.5°	580.7	580.1	579.3	578.7	579.3	580.1	580.7	581.3	581.9	582.6	583.2
125°	640.0	639.0	638.1	637.2	638.1	639.0	640.0	640.9	641.8	642.7	643.6
127.5°	698.6	697.5	696.4	695.4	696.4	697.5	698.6	699.6	700.8	702.1	703.4
130°	738.3	736.7	735.1	733.5	735.1	736.7	738.3	739.9	741.3	742.2	743.1
132.5°	777.0	775.8	774.5	773.3	774.5	775.8	777.0	778.3	779.4	780.6	781.7
135°	836.4	836.0	835.5	835.1	835.5	836.0	836.4	836.9	837.6	838.5	839.5
137.5°	892.2	891.4	890.5	889.6	890.5	891.4	892.2	893.0	893.9	894.9	895.9
140°	930.1	928.4	926.8	925.2	926.8	928.4	930.1	931.7	932.6	932.8	933.0
142.5°	965.4	964.1	963.0	961.7	963.0	964.1	965.4	966.6	967.4	967.6	967.9
145°	1017.1	1016.1	1015.2	1014.3	1015.2	1016.1	1017.1	1018.0	1018.6	1018.8	1019.0
147.5°	1065.2	1063.9	1062.5	1061.1	1062.5	1063.9	1065.2	1066.7	1067.4	1067.4	1067.4
150°	1095.1	1093.8	1092.3	1091.0	1092.3	1093.8	1095.1	1096.5	1097.2	1097.2	1097.2
152.5°	1123.6	1122.4	1121.1	1120.0	1121.1	1122.4	1123.6	1124.8	1125.2	1124.8	1124.4
155°	1164.2	1162.6	1161.0	1159.3	1161.0	1162.6	1164.2	1165.8	1166.2	1165.2	1164.3
157.5°	1199.1	1197.7	1196.5	1195.2	1196.5	1197.7	1199.1	1200.3	1200.5	1199.5	1198.5
160°	1221.2	1220.2	1219.3	1218.4	1219.3	1220.2	1221.2	1222.1	1222.0	1220.8	1219.7
162.5°	1240.2	1238.8	1237.2	1235.8	1237.2	1238.8	1240.2	1241.7	1241.9	1240.7	1239.6
165°	1265.7	1264.1	1262.5	1260.9	1262.5	1264.1	1265.7	1267.3	1267.5	1266.1	1264.7
167.5°	1286.5	1285.0	1283.6	1282.2	1283.6	1285.0	1286.5	1287.9	1287.9	1286.5	1285.0
170°	1297.9	1296.2	1294.6	1293.0	1294.6	1296.2	1297.9	1299.5	1299.5	1297.9	1296.2
172.5°	1306.1	1304.5	1302.9	1301.3	1302.9	1304.5	1306.1	1307.8	1307.9	1306.4	1305.0
175°	1315.5	1313.8	1312.2	1310.6	1312.2	1313.8	1315.5	1317.1	1317.1	1315.8	1314.4
177.5°	1319.5	1318.1	1316.9	1315.6	1316.9	1318.1	1319.5	1320.7	1320.8	1319.7	1318.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	411.2	411.2	414.3	416.3	418.8	420.4	421.6	422.8	424.8	427.4	430.4
5°	387.6	388.4	393.1	397.6	402.0	405.7	408.8	412.6	417.1	422.8	429.0
7.5°	364.9	368.1	372.6	378.3	384.3	389.8	395.3	401.4	408.0	416.2	424.9
10°	350.3	353.7	359.4	366.5	372.9	379.3	386.2	392.8	400.9	410.7	422.0
12.5°	337.4	340.8	346.6	354.3	360.4	367.6	375.4	384.1	393.2	404.8	417.6
15°	319.7	323.7	330.7	334.5	343.8	352.3	359.6	372.0	383.7	395.7	410.5
17.5°	305.1	307.4	313.1	320.0	327.0	336.6	346.1	356.5	368.1	382.8	401.3
20°	295.2	297.0	303.3	310.6	318.1	326.8	335.3	345.7	358.7	374.3	394.3
22.5°	287.8	289.7	293.8	301.6	308.5	315.8	324.3	336.7	350.6	365.9	387.4
25°	276.9	278.1	280.9	287.1	293.3	301.4	308.9	320.6	334.8	352.8	374.3
27.5°	266.6	267.9	270.1	274.6	280.4	287.0	295.2	305.0	319.5	338.9	361.9
30°	260.5	260.7	262.8	267.0	272.0	277.3	284.8	296.0	309.8	329.5	353.6
32.5°	255.2	254.4	255.8	259.0	263.8	269.2	275.4	286.4	299.6	319.0	343.8
35°	246.2	245.8	245.1	247.8	252.0	256.1	261.5	269.8	284.8	302.9	328.9
37.5°	237.0	235.9	234.9	236.1	239.3	243.7	248.3	255.7	268.7	288.6	313.4
40°	230.2	229.3	228.7	228.3	231.2	235.3	238.9	245.9	258.0	276.9	301.4
42.5°	222.7	222.2	221.4	220.8	223.2	226.4	230.1	236.3	248.3	266.1	289.3
45°	210.6	210.3	209.8	209.4	210.9	213.7	216.7	221.2	231.7	248.9	269.8
47.5°	197.2	196.7	196.9	196.2	197.6	199.6	201.6	206.5	216.4	230.4	245.8
50°	187.6	187.3	187.3	187.3	187.8	190.1	192.0	195.7	204.8	218.7	229.8
52.5°	178.4	177.5	177.5	177.9	178.7	180.1	181.3	185.4	193.3	204.8	214.8
55°	164.1	162.5	162.0	162.5	163.1	164.3	165.6	168.9	175.8	184.2	190.1
57.5°	148.2	147.3	146.8	146.9	147.2	148.2	149.2	152.8	158.2	162.6	166.4
60°	137.1	137.5	135.6	136.1	136.1	136.9	138.4	140.6	145.2	148.3	152.0
62.5°	126.6	126.1	125.6	124.9	124.9	125.3	127.2	129.0	133.0	134.6	137.4
65°	110.3	110.3	109.1	109.5	109.7	108.3	109.2	111.4	113.9	114.5	117.2
67.5°	93.8	93.2	92.5	91.8	91.8	91.8	92.3	93.3	95.1	95.4	97.5
70°	82.5	82.0	81.9	81.2	80.4	81.4	80.8	81.9	82.9	83.1	84.4
72.5°	71.5	71.1	70.7	70.1	69.7	69.6	69.6	70.9	71.6	71.3	72.7
75°	55.9	55.5	55.0	54.0	54.0	53.4	53.6	54.4	55.3	54.7	55.9
77.5°	41.0	39.8	39.7	39.9	39.2	39.4	39.1	39.1	39.4	39.4	40.6
80°	31.6	30.1	30.5	30.3	30.1	29.9	29.5	29.7	29.9	30.1	30.8
82.5°	22.7	22.6	22.2	22.2	21.9	21.4	21.2	21.6	21.8	21.7	22.1
85°	11.6	11.0	11.4	11.2	11.4	11.2	10.6	10.6	11.0	10.8	11.2
87.5°	8.6	8.5	7.7	7.2	6.5	6.1	5.4	5.1	4.8	4.3	4.2
90°	25.8	24.9	21.8	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1
92.5°	40.5	39.8	38.1	36.4	34.7	33.0	31.3	29.8	28.2	26.7	25.1
95°	77.6	76.7	74.8	72.9	71.2	69.3	67.6	66.0	64.4	62.8	61.2
97.5°	121.0	119.9	118.6	117.3	116.0	114.7	113.3	112.2	111.0	109.8	108.6
100°	153.0	152.3	151.1	150.0	148.8	147.7	146.4	145.1	143.7	142.3	140.9
102.5°	189.5	188.8	187.3	185.7	184.2	182.7	181.6	180.7	179.9	179.1	178.2
105°	244.5	244.5	242.5	240.4	238.3	236.2	235.0	234.5	234.1	233.5	233.1
107.5°	302.6	301.9	301.0	300.2	299.4	298.6	298.0	297.7	297.5	297.2	296.9
110°	341.8	340.9	340.4	339.9	339.5	339.0	338.6	338.1	337.6	337.2	336.7



TEST NUMBER: P331902-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	380.9	379.8	379.7	379.6	379.5	379.4	379.2	379.0	378.7	378.4	378.2
115°	441.6	441.4	441.8	442.3	442.7	443.2	443.1	442.4	441.7	441.0	440.3
117.5°	502.2	502.3	502.9	503.5	504.1	504.7	504.7	504.3	503.8	503.4	502.9
120°	542.7	542.9	544.0	545.2	546.4	547.5	547.4	546.0	544.7	543.2	541.9
122.5°	583.7	584.3	585.0	585.5	586.1	586.7	586.6	585.5	584.5	583.4	582.5
125°	644.5	645.5	646.0	646.4	646.8	647.3	647.2	646.5	645.8	645.2	644.4
127.5°	704.7	706.0	706.5	706.9	707.5	708.0	707.5	706.1	704.5	703.1	701.6
130°	744.0	744.9	745.6	746.3	747.0	747.7	747.1	745.3	743.4	741.5	739.8
132.5°	782.7	783.9	784.3	784.9	785.4	786.0	785.2	783.4	781.6	779.7	777.8
135°	840.3	841.2	841.5	841.8	842.0	842.2	841.6	840.3	838.8	837.5	836.1
137.5°	896.9	897.9	897.2	896.6	896.1	895.5	894.6	893.4	892.2	891.1	890.0
140°	933.3	933.5	933.3	933.0	932.8	932.6	931.8	930.8	929.6	928.4	927.3
142.5°	968.0	968.3	967.9	967.5	967.1	966.6	965.9	964.7	963.6	962.4	961.3
145°	1019.2	1019.5	1018.8	1018.1	1017.4	1016.7	1016.1	1015.7	1015.2	1014.8	1014.3
147.5°	1067.4	1067.4	1066.7	1066.0	1065.4	1064.8	1064.1	1063.2	1062.4	1061.6	1060.7
150°	1097.2	1097.2	1096.7	1096.3	1095.8	1095.4	1094.9	1094.4	1094.0	1093.5	1093.1
152.5°	1124.1	1123.7	1123.5	1123.2	1122.8	1122.6	1122.1	1121.5	1120.9	1120.3	1119.5
155°	1163.4	1162.4	1162.3	1162.0	1161.8	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5
157.5°	1197.7	1196.7	1196.5	1196.3	1196.1	1195.9	1196.0	1196.2	1196.5	1196.8	1197.0
160°	1218.5	1217.4	1217.4	1217.4	1217.4	1217.4	1217.6	1218.1	1218.5	1219.0	1219.4
162.5°	1238.4	1237.2	1237.1	1236.9	1236.7	1236.5	1236.8	1237.4	1238.1	1238.7	1239.3
165°	1263.3	1261.9	1261.9	1261.9	1261.9	1261.9	1262.3	1262.9	1263.6	1264.4	1265.1
167.5°	1283.6	1282.2	1282.0	1281.8	1281.7	1281.5	1281.8	1282.8	1283.7	1284.6	1285.6
170°	1294.6	1293.0	1293.0	1293.0	1293.0	1293.0	1293.4	1294.4	1295.3	1296.2	1297.2
172.5°	1303.6	1302.2	1302.2	1302.2	1302.2	1302.2	1302.6	1303.5	1304.4	1305.4	1306.3
175°	1313.0	1311.6	1311.6	1311.6	1311.6	1311.6	1312.2	1313.0	1313.9	1314.9	1315.8
177.5°	1317.5	1316.4	1316.4	1316.4	1316.4	1316.4	1316.8	1317.5	1318.3	1319.0	1319.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



TEST NUMBER: P331902-940

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	431.4	432.3	435.1	437.1	439.4	440.8	442.0	443.1	444.4	444.7	449.5
5°	433.4	437.5	444.8	450.1	456.8	464.0	469.0	471.4	477.4	482.3	492.3
7.5°	432.8	441.7	452.6	464.0	476.2	487.5	497.3	509.0	517.2	529.7	541.9
10°	432.3	444.2	458.3	472.8	489.8	505.6	519.8	535.6	548.7	565.9	580.6
12.5°	430.8	445.1	464.8	482.0	502.7	524.4	545.4	565.6	577.2	605.9	619.5
15°	427.1	444.2	468.7	494.8	523.3	549.0	575.6	596.8	631.1	656.2	672.3
17.5°	420.1	443.9	473.0	504.5	539.1	573.1	603.2	635.3	671.7	702.1	734.6
20°	416.7	442.9	475.3	510.2	546.2	584.6	618.8	657.5	697.1	727.1	768.7
22.5°	410.5	440.2	475.1	514.0	552.4	592.2	632.3	671.3	717.1	758.3	797.9
25°	400.6	433.7	469.9	513.4	558.4	598.2	646.3	698.0	745.7	798.8	838.2
27.5°	389.9	425.4	461.6	502.0	550.5	597.9	658.3	716.7	775.1	820.8	850.1
30°	381.8	416.3	453.7	494.5	542.4	598.7	666.2	730.0	786.9	826.2	842.6
32.5°	373.0	408.0	441.0	483.8	534.9	598.2	671.2	737.8	787.6	813.7	810.5
35°	359.2	388.4	420.7	461.8	522.0	594.5	674.1	738.5	769.0	763.4	721.0
37.5°	339.2	363.9	395.6	440.6	507.1	586.8	668.2	716.6	714.6	669.0	607.5
40°	326.8	347.8	378.3	425.6	495.4	581.8	659.2	690.5	664.0	600.1	526.6
42.5°	310.5	329.8	360.3	409.0	482.7	571.8	641.7	650.8	598.8	525.4	458.0
45°	285.3	302.3	333.9	384.1	463.4	549.7	599.1	576.8	506.8	431.1	379.8
47.5°	258.1	275.8	306.1	357.8	435.7	516.5	540.0	492.8	420.9	359.4	312.3
50°	240.9	258.0	287.8	339.8	417.0	489.2	499.0	437.9	371.8	317.8	279.2
52.5°	223.7	239.7	268.9	321.3	395.0	457.6	451.7	389.4	328.7	282.6	252.3
55°	198.0	213.1	240.9	290.0	357.1	406.7	385.0	325.6	275.3	239.5	216.4
57.5°	175.0	189.5	213.5	257.8	316.1	350.3	322.5	272.4	232.5	204.9	187.8
60°	159.3	172.2	195.1	236.2	286.9	312.8	285.4	241.2	207.5	185.5	170.1
62.5°	144.5	155.8	176.9	214.3	258.3	280.1	252.4	214.9	186.3	166.7	153.6
65°	122.2	132.3	151.1	180.1	216.2	230.8	206.9	176.6	154.4	139.8	131.1
67.5°	101.7	110.4	126.5	149.4	176.0	186.5	168.4	144.9	128.1	116.5	109.6
70°	88.1	95.6	108.3	128.0	152.0	160.2	143.1	123.8	111.6	102.2	95.8
72.5°	76.6	82.1	93.6	108.9	128.9	135.4	123.5	106.6	95.1	88.1	82.9
75°	58.4	63.0	70.4	82.7	96.6	100.3	91.4	80.8	73.1	68.1	64.2
77.5°	42.1	45.5	50.8	58.4	68.0	71.4	65.8	58.7	53.1	49.8	47.5
80°	31.7	34.5	39.1	45.3	51.1	53.0	49.7	44.2	40.3	38.4	36.6
82.5°	23.5	25.0	27.7	32.0	35.9	38.2	35.4	32.1	30.0	28.3	27.6
85°	11.9	12.7	13.9	15.6	18.1	18.9	17.8	17.0	15.8	14.7	14.7
87.5°	5.0	5.4	6.4	7.2	8.4	9.5	9.9	10.2	10.6	10.6	10.7
90°	3.3	5.6	7.9	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.8
92.5°	26.7	28.2	29.8	31.3	33.0	34.7	36.4	38.1	39.8	40.5	41.3
95°	62.8	64.4	66.0	67.6	69.3	71.2	72.9	74.8	76.7	77.6	78.5
97.5°	109.8	111.0	112.2	113.3	114.7	116.0	117.3	118.6	119.9	121.0	122.1
100°	142.3	143.7	145.1	146.4	147.7	148.8	150.0	151.1	152.3	153.0	153.6
102.5°	179.1	179.9	180.7	181.6	182.7	184.2	185.7	187.3	188.8	189.5	190.1
105°	233.5	234.1	234.5	235.0	236.2	238.3	240.4	242.5	244.5	244.5	244.5
107.5°	297.2	297.5	297.7	298.0	298.6	299.4	300.2	301.0	301.9	302.6	303.4
110°	337.2	337.6	338.1	338.6	339.0	339.5	339.9	340.4	340.9	341.8	342.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	378.4	378.7	379.0	379.2	379.4	379.5	379.6	379.7	379.8	380.9	382.0
115°	441.0	441.7	442.4	443.1	443.2	442.7	442.3	441.8	441.4	441.6	441.8
117.5°	503.4	503.8	504.3	504.7	504.7	504.1	503.5	502.9	502.3	502.2	502.2
120°	543.2	544.7	546.0	547.4	547.5	546.4	545.2	544.0	542.9	542.7	542.4
122.5°	583.4	584.5	585.5	586.6	586.7	586.1	585.5	585.0	584.3	583.7	583.2
125°	645.2	645.8	646.5	647.2	647.3	646.8	646.4	646.0	645.5	644.5	643.6
127.5°	703.1	704.5	706.1	707.5	708.0	707.5	706.9	706.5	706.0	704.7	703.4
130°	741.5	743.4	745.3	747.1	747.7	747.0	746.3	745.6	744.9	744.0	743.1
132.5°	779.7	781.6	783.4	785.2	786.0	785.4	784.9	784.3	783.9	782.7	781.7
135°	837.5	838.8	840.3	841.6	842.2	842.0	841.8	841.5	841.2	840.3	839.5
137.5°	891.1	892.2	893.4	894.6	895.5	896.1	896.6	897.2	897.9	896.9	895.9
140°	928.4	929.6	930.8	931.8	932.6	932.8	933.0	933.3	933.5	933.3	933.0
142.5°	962.4	963.6	964.7	965.9	966.6	967.1	967.5	967.9	968.3	968.0	967.9
145°	1014.8	1015.2	1015.7	1016.1	1016.7	1017.4	1018.1	1018.8	1019.5	1019.2	1019.0
147.5°	1061.6	1062.4	1063.2	1064.1	1064.8	1065.4	1066.0	1066.7	1067.4	1067.4	1067.4
150°	1093.5	1094.0	1094.4	1094.9	1095.4	1095.8	1096.3	1096.7	1097.2	1097.2	1097.2
152.5°	1120.3	1120.9	1121.5	1122.1	1122.6	1122.8	1123.2	1123.5	1123.7	1124.1	1124.4
155°	1161.5	1161.5	1161.5	1161.5	1161.5	1161.8	1162.0	1162.3	1162.4	1163.4	1164.3
157.5°	1196.8	1196.5	1196.2	1196.0	1195.9	1196.1	1196.3	1196.5	1196.7	1197.7	1198.5
160°	1219.0	1218.5	1218.1	1217.6	1217.4	1217.4	1217.4	1217.4	1217.4	1218.5	1219.7
162.5°	1238.7	1238.1	1237.4	1236.8	1236.5	1236.7	1236.9	1237.1	1237.2	1238.4	1239.6
165°	1264.4	1263.6	1262.9	1262.3	1261.9	1261.9	1261.9	1261.9	1261.9	1263.3	1264.7
167.5°	1284.6	1283.7	1282.8	1281.8	1281.5	1281.7	1281.8	1282.0	1282.2	1283.6	1285.0
170°	1296.2	1295.3	1294.4	1293.4	1293.0	1293.0	1293.0	1293.0	1293.0	1294.6	1296.2
172.5°	1305.4	1304.4	1303.5	1302.6	1302.2	1302.2	1302.2	1302.2	1302.2	1303.6	1305.0
175°	1314.9	1313.9	1313.0	1312.2	1311.6	1311.6	1311.6	1311.6	1311.6	1313.0	1314.4
177.5°	1319.0	1318.3	1317.5	1316.8	1316.4	1316.4	1316.4	1316.4	1316.4	1317.5	1318.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	451.2	451.4	453.2	454.5	453.9	454.7	455.0
5°	492.9	500.4	504.4	507.3	507.5	507.7	509.3
7.5°	552.1	560.2	566.1	575.0	577.6	580.6	579.8
10°	595.4	607.3	617.4	622.8	628.7	637.1	630.3
12.5°	635.8	656.7	672.3	680.6	686.1	687.8	684.5
15°	702.4	729.8	744.5	744.1	762.8	770.9	758.2
17.5°	763.4	788.7	809.0	819.4	835.0	838.4	836.9
20°	800.8	828.5	844.3	862.1	870.2	877.4	878.7
22.5°	833.0	857.9	874.9	889.7	896.4	899.9	902.0
25°	866.3	885.8	896.0	901.2	903.0	902.6	899.9
27.5°	864.0	865.5	854.3	843.3	833.4	822.3	818.5
30°	841.5	824.1	792.9	775.3	749.3	728.7	737.1
32.5°	782.6	747.8	712.8	674.2	642.3	633.2	624.0
35°	667.9	606.8	571.1	529.5	512.9	496.3	484.8
37.5°	540.3	493.1	450.7	423.6	406.9	396.4	390.7
40°	467.2	424.6	389.7	367.7	355.0	343.2	341.5
42.5°	408.8	369.3	343.0	325.5	313.3	308.3	304.6
45°	334.8	307.3	289.6	277.1	269.0	265.9	261.7
47.5°	283.5	263.9	250.7	242.2	236.0	233.7	233.4
50°	254.7	238.4	228.7	222.0	217.3	216.4	213.1
52.5°	233.1	219.0	211.4	205.6	202.2	199.8	198.9
55°	202.3	193.0	186.1	182.8	180.1	177.8	177.8
57.5°	177.0	169.2	164.7	161.8	161.0	159.4	158.4
60°	161.4	154.8	151.2	148.7	147.0	147.3	145.4
62.5°	146.2	141.8	138.4	136.0	133.9	134.0	134.1
65°	124.4	121.1	118.6	117.8	116.5	115.1	115.5
67.5°	105.5	102.4	100.4	99.0	98.5	97.7	99.0
70°	91.8	89.5	88.1	86.9	86.4	86.6	87.7
72.5°	79.4	77.8	76.8	76.2	75.3	75.3	76.1
75°	62.3	61.1	60.3	59.7	59.4	59.4	59.4
77.5°	45.7	45.5	45.1	44.2	44.2	44.5	44.5
80°	36.1	35.5	35.3	34.9	34.2	33.9	34.9
82.5°	27.0	26.4	26.2	26.1	25.1	25.1	25.9
85°	14.5	13.9	14.1	13.9	13.9	13.7	13.7
87.5°	10.7	10.7	10.7	11.0	10.9	10.8	11.2
90°	27.6	28.5	29.2	29.7	30.1	30.6	31.1
92.5°	42.0	42.7	43.0	42.7	42.4	42.1	41.8
95°	79.5	80.3	80.8	80.8	80.8	80.8	80.8
97.5°	123.1	124.2	124.7	124.6	124.5	124.4	124.3
100°	154.4	155.1	155.6	156.1	156.6	157.0	157.5
102.5°	190.8	191.5	191.8	191.7	191.6	191.5	191.5
105°	244.5	244.5	244.8	245.2	245.7	246.1	246.6
107.5°	304.2	304.9	305.1	304.8	304.5	304.3	304.0
110°	343.7	344.6	344.7	344.3	343.8	343.4	343.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	383.2	384.2	384.8	384.7	384.6	384.5	384.4
115°	442.0	442.3	442.3	442.0	441.8	441.6	441.4
117.5°	502.1	502.1	501.8	501.1	500.4	499.8	499.2
120°	542.2	542.0	541.6	541.2	540.7	540.3	539.8
122.5°	582.6	581.9	581.3	580.7	580.1	579.3	578.7
125°	642.7	641.8	640.9	640.0	639.0	638.1	637.2
127.5°	702.1	700.8	699.6	698.6	697.5	696.4	695.4
130°	742.2	741.3	739.9	738.3	736.7	735.1	733.5
132.5°	780.6	779.4	778.3	777.0	775.8	774.5	773.3
135°	838.5	837.6	836.9	836.4	836.0	835.5	835.1
137.5°	894.9	893.9	893.0	892.2	891.4	890.5	889.6
140°	932.8	932.6	931.7	930.1	928.4	926.8	925.2
142.5°	967.6	967.4	966.6	965.4	964.1	963.0	961.7
145°	1018.8	1018.6	1018.0	1017.1	1016.1	1015.2	1014.3
147.5°	1067.4	1067.4	1066.7	1065.2	1063.9	1062.5	1061.1
150°	1097.2	1097.2	1096.5	1095.1	1093.8	1092.3	1091.0
152.5°	1124.8	1125.2	1124.8	1123.6	1122.4	1121.1	1120.0
155°	1165.2	1166.2	1165.8	1164.2	1162.6	1161.0	1159.3
157.5°	1199.5	1200.5	1200.3	1199.1	1197.7	1196.5	1195.2
160°	1220.8	1222.0	1222.1	1221.2	1220.2	1219.3	1218.4
162.5°	1240.7	1241.9	1241.7	1240.2	1238.8	1237.2	1235.8
165°	1266.1	1267.5	1267.3	1265.7	1264.1	1262.5	1260.9
167.5°	1286.5	1287.9	1287.9	1286.5	1285.0	1283.6	1282.2
170°	1297.9	1299.5	1299.5	1297.9	1296.2	1294.6	1293.0
172.5°	1306.4	1307.9	1307.8	1306.1	1304.5	1302.9	1301.3
175°	1315.8	1317.1	1317.1	1315.5	1313.8	1312.2	1310.6
177.5°	1319.7	1320.8	1320.7	1319.5	1318.1	1316.9	1315.6
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9

(END OF REPORT)