

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: P332109-940

Luminaire Tested: **S123DIW-S340D1320U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332109-940  
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: S123DIW-S340D1320U940-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5377.6 lumens  
Efficiency: N/A  
Efficacy: 115.4 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

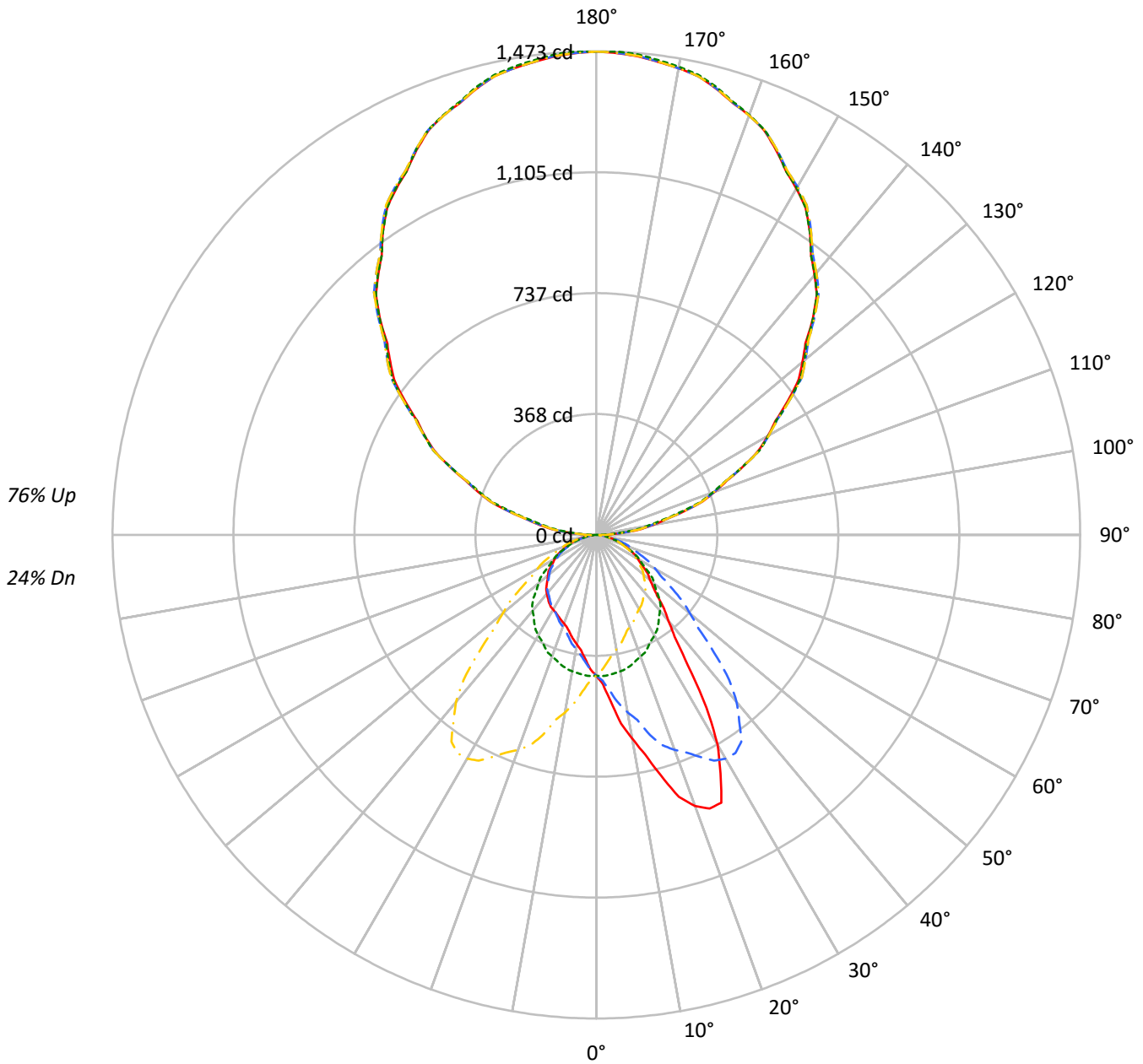
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	81	82	78	75	73	60	58	57	44	43	42	29	28	27	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	25	24	23	17
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	53	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	9	7
10	44	32	25	21	39	29	23	19	23	18	15	17	14	12	12	10	9	6

**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	0.8
10°-20°	135.4	2.5
20°-30°	227.3	4.2
30°-40°	257.4	4.8
40°-50°	230.8	4.3
50°-60°	186.3	3.5
60°-70°	129.8	2.4
70°-80°	68.2	1.3
80°-90°	21.0	0.4
90°-100°	95.9	1.8
100°-110°	287.1	5.3
110°-120°	488.2	9.1
120°-130°	642.2	11.9
130°-140°	721.9	13.4
140°-150°	709.6	13.2
150°-160°	597.3	11.1
160°-170°	397.6	7.4
170°-180°	139.2	2.6
0°-30°	405.0	7.5
0°-40°	662.4	12.3
0°-60°	1079.4	20.1
0°-90°	1298.4	24.1
90°-120°	871.3	16.2
90°-150°	2944.9	54.8
90°-180°	4079.0	75.9
0°-180°	5377.6	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°	35	1	35	1	35	18
95°	90	68	90	68	90	93
105°	275	260	275	260	275	292
115°	493	492	493	492	493	488
125°	711	719	711	719	711	636
135°	932	933	932	933	932	717
145°	1132	1132	1132	1132	1132	707
155°	1294	1296	1294	1296	1294	596
165°	1408	1412	1408	1412	1408	397
175°	1463	1469	1463	1469	1463	139
180°	1472	1472	1472	1472	1472	



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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°	11.9	11.5	11.6	11.6	11.3	11.3	11.3	11.3	11.2	11.2	10.7
90°	34.7	34.2	33.7	33.2	32.6	31.8	30.9	29.8	28.8	27.7	24.4
92.5°	46.7	47.0	47.3	47.6	48.0	47.7	46.9	46.0	45.2	44.4	42.5
95°	90.2	90.2	90.2	90.2	90.2	89.7	88.6	87.7	86.6	85.6	83.6
97.5°	138.8	138.9	139.0	139.1	139.2	138.7	137.5	136.3	135.1	133.9	132.4
100°	175.8	175.3	174.8	174.2	173.7	173.1	172.3	171.6	170.8	170.0	168.7
102.5°	213.7	213.8	213.9	214.0	214.1	213.8	213.0	212.2	211.5	210.7	209.0
105°	275.3	274.7	274.2	273.8	273.2	273.0	273.0	273.0	273.0	273.0	270.6
107.5°	339.3	339.7	339.9	340.3	340.5	340.3	339.5	338.7	337.9	337.0	336.1
110°	382.8	383.3	383.9	384.3	384.9	384.6	383.6	382.5	381.6	380.5	380.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	429.1	429.2	429.3	429.4	429.4	428.9	427.7	426.4	425.3	424.0	423.9
115°	492.7	492.9	493.2	493.5	493.7	493.7	493.5	493.2	492.9	492.7	493.2
117.5°	557.2	557.9	558.7	559.4	560.1	560.4	560.5	560.6	560.6	560.7	561.3
120°	602.5	603.1	603.6	604.1	604.6	605.0	605.3	605.5	605.7	606.0	607.3
122.5°	646.0	646.8	647.5	648.2	648.9	649.6	650.2	650.9	651.6	652.3	652.9
125°	711.2	712.3	713.3	714.3	715.4	716.4	717.5	718.5	719.5	720.5	721.0
127.5°	776.2	777.5	778.6	779.8	781.0	782.3	783.7	785.2	786.6	788.1	788.6
130°	818.9	820.6	822.4	824.2	826.0	827.4	828.5	829.5	830.5	831.5	832.3
132.5°	863.3	864.6	866.0	867.4	868.8	870.1	871.3	872.5	873.8	875.0	875.6
135°	932.2	932.6	933.2	933.7	934.2	935.0	936.0	937.0	938.1	939.1	939.3
137.5°	993.0	994.0	995.0	996.0	996.9	997.9	999.0	1000.1	1001.1	1002.3	1001.6
140°	1032.8	1034.6	1036.3	1038.2	1040.0	1041.0	1041.3	1041.5	1041.8	1042.1	1041.8
142.5°	1073.5	1074.9	1076.3	1077.6	1079.1	1079.9	1080.1	1080.4	1080.7	1080.9	1080.4
145°	1132.2	1133.3	1134.3	1135.3	1136.4	1137.0	1137.3	1137.5	1137.7	1138.0	1137.3
147.5°	1184.5	1186.1	1187.6	1189.2	1190.7	1191.4	1191.4	1191.4	1191.4	1191.4	1190.7
150°	1217.8	1219.3	1220.9	1222.4	1224.0	1224.8	1224.8	1224.8	1224.8	1224.8	1224.2
152.5°	1250.2	1251.5	1252.9	1254.2	1255.5	1256.0	1255.6	1255.2	1254.8	1254.4	1254.1
155°	1294.1	1295.9	1297.8	1299.6	1301.4	1301.7	1300.7	1299.7	1298.7	1297.6	1297.4
157.5°	1334.2	1335.6	1337.0	1338.5	1339.9	1340.2	1339.0	1337.9	1336.9	1335.8	1335.6
160°	1360.0	1361.1	1362.2	1363.2	1364.2	1364.1	1362.8	1361.5	1360.2	1358.9	1358.9
162.5°	1379.5	1381.2	1382.8	1384.5	1386.1	1386.3	1385.0	1383.7	1382.4	1381.1	1380.9
165°	1407.5	1409.3	1411.1	1412.9	1414.7	1414.8	1413.3	1411.8	1410.2	1408.6	1408.6
167.5°	1431.3	1432.9	1434.5	1436.1	1437.7	1437.7	1436.1	1434.5	1432.9	1431.3	1431.1
170°	1443.3	1445.1	1447.0	1448.8	1450.5	1450.5	1448.8	1447.0	1445.1	1443.3	1443.3
172.5°	1452.6	1454.4	1456.2	1458.0	1459.8	1459.9	1458.3	1456.7	1455.1	1453.5	1453.5
175°	1463.0	1464.8	1466.6	1468.4	1470.2	1470.3	1468.8	1467.2	1465.7	1464.2	1464.2
177.5°	1468.6	1470.0	1471.4	1472.8	1474.4	1474.4	1473.2	1471.9	1470.7	1469.5	1469.5
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



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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°	10.3	9.9	8.7	7.4	6.6	5.6	5.1	4.2	4.4	4.9	5.3
90°	21.0	17.7	14.4	11.4	8.8	6.3	3.7	1.2	3.7	6.3	8.8
92.5°	40.6	38.7	36.8	35.0	33.3	31.5	29.7	28.0	29.7	31.5	33.3
95°	81.5	79.5	77.4	75.4	73.7	71.9	70.0	68.2	70.0	71.9	73.7
97.5°	130.9	129.5	128.0	126.5	125.2	123.9	122.5	121.2	122.5	123.9	125.2
100°	167.5	166.1	164.9	163.5	161.9	160.3	158.8	157.3	158.8	160.3	161.9
102.5°	207.3	205.6	203.9	202.6	201.7	200.8	199.8	198.9	199.8	200.8	201.7
105°	268.3	266.0	263.7	262.3	261.7	261.3	260.7	260.2	260.7	261.3	261.7
107.5°	335.2	334.2	333.3	332.7	332.4	332.1	331.8	331.4	331.8	332.1	332.4
110°	379.5	379.0	378.4	377.9	377.4	376.9	376.4	375.9	376.4	376.9	377.4





TEST NUMBER: P332109-940

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	423.7	423.7	423.6	423.4	423.0	422.8	422.4	422.1	422.4	422.8	423.0
115°	493.7	494.2	494.7	494.6	493.8	493.0	492.3	491.5	492.3	493.0	493.8
117.5°	562.0	562.7	563.4	563.5	562.9	562.4	561.9	561.4	561.9	562.4	562.9
120°	608.6	609.8	611.2	611.0	609.5	608.0	606.4	604.8	606.4	608.0	609.5
122.5°	653.6	654.2	655.0	654.7	653.6	652.5	651.3	650.2	651.3	652.5	653.6
125°	721.6	722.0	722.6	722.5	721.7	720.9	720.1	719.3	720.1	720.9	721.7
127.5°	789.2	789.8	790.3	789.8	788.1	786.5	784.9	783.2	784.9	786.5	788.1
130°	833.1	833.8	834.6	834.0	832.0	829.9	827.8	825.7	827.8	829.9	832.0
132.5°	876.2	876.7	877.3	876.6	874.5	872.4	870.4	868.3	870.4	872.4	874.5
135°	939.6	939.9	940.1	939.5	937.9	936.4	934.9	933.4	934.9	936.4	937.9
137.5°	1000.9	1000.2	999.6	998.6	997.3	996.0	994.7	993.5	994.7	996.0	997.3
140°	1041.5	1041.3	1041.0	1040.3	1038.9	1037.7	1036.3	1035.1	1036.3	1037.7	1038.9
142.5°	1080.0	1079.5	1079.1	1078.2	1076.9	1075.6	1074.3	1073.0	1074.3	1075.6	1076.9
145°	1136.5	1135.7	1135.0	1134.3	1133.8	1133.3	1132.7	1132.2	1132.7	1133.3	1133.8
147.5°	1190.0	1189.3	1188.6	1187.8	1186.9	1185.9	1185.0	1184.0	1185.0	1185.9	1186.9
150°	1223.7	1223.2	1222.7	1222.2	1221.6	1221.2	1220.7	1220.1	1220.7	1221.2	1221.6
152.5°	1253.7	1253.5	1253.1	1252.6	1251.9	1251.2	1250.4	1249.7	1250.4	1251.2	1251.9
155°	1297.1	1296.8	1296.6	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
157.5°	1335.3	1335.2	1335.0	1335.0	1335.3	1335.6	1336.0	1336.2	1336.0	1335.6	1335.3
160°	1358.9	1358.9	1358.9	1359.1	1359.7	1360.2	1360.8	1361.2	1360.8	1360.2	1359.7
162.5°	1380.7	1380.5	1380.3	1380.5	1381.3	1382.0	1382.7	1383.4	1382.7	1382.0	1381.3
165°	1408.6	1408.6	1408.6	1409.1	1409.8	1410.6	1411.3	1412.1	1411.3	1410.6	1409.8
167.5°	1430.9	1430.7	1430.5	1430.9	1431.9	1433.0	1434.0	1435.0	1434.0	1433.0	1431.9
170°	1443.3	1443.3	1443.3	1443.9	1444.9	1445.9	1447.0	1448.0	1447.0	1445.9	1444.9
172.5°	1453.5	1453.5	1453.5	1454.0	1455.1	1456.1	1457.1	1458.1	1457.1	1456.1	1455.1
175°	1464.2	1464.2	1464.2	1464.6	1465.7	1466.8	1467.8	1468.8	1467.8	1466.8	1465.7
177.5°	1469.5	1469.5	1469.5	1469.9	1470.7	1471.5	1472.4	1473.2	1472.4	1471.5	1470.7
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



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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°	5.6	6.3	6.9	7.7	8.2	9.0	9.3	9.1	9.4	10.0	9.5
90°	11.4	14.4	17.7	21.0	24.4	27.7	28.8	29.8	30.9	31.8	32.6
92.5°	35.0	36.8	38.7	40.6	42.5	44.4	45.2	46.0	46.9	47.7	48.0
95°	75.4	77.4	79.5	81.5	83.6	85.6	86.6	87.7	88.6	89.7	90.2
97.5°	126.5	128.0	129.5	130.9	132.4	133.9	135.1	136.3	137.5	138.7	139.2
100°	163.5	164.9	166.1	167.5	168.7	170.0	170.8	171.6	172.3	173.1	173.7
102.5°	202.6	203.9	205.6	207.3	209.0	210.7	211.5	212.2	213.0	213.8	214.1
105°	262.3	263.7	266.0	268.3	270.6	273.0	273.0	273.0	273.0	273.0	273.2
107.5°	332.7	333.3	334.2	335.2	336.1	337.0	337.9	338.7	339.5	340.3	340.5
110°	377.9	378.4	379.0	379.5	380.0	380.5	381.6	382.5	383.6	384.6	384.9



TEST NUMBER: P332109-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	423.4	423.6	423.7	423.7	423.9	424.0	425.3	426.4	427.7	428.9	429.4
115°	494.6	494.7	494.2	493.7	493.2	492.7	492.9	493.2	493.5	493.7	493.7
117.5°	563.5	563.4	562.7	562.0	561.3	560.7	560.6	560.6	560.5	560.4	560.1
120°	611.0	611.2	609.8	608.6	607.3	606.0	605.7	605.5	605.3	605.0	604.6
122.5°	654.7	655.0	654.2	653.6	652.9	652.3	651.6	650.9	650.2	649.6	648.9
125°	722.5	722.6	722.0	721.6	721.0	720.5	719.5	718.5	717.5	716.4	715.4
127.5°	789.8	790.3	789.8	789.2	788.6	788.1	786.6	785.2	783.7	782.3	781.0
130°	834.0	834.6	833.8	833.1	832.3	831.5	830.5	829.5	828.5	827.4	826.0
132.5°	876.6	877.3	876.7	876.2	875.6	875.0	873.8	872.5	871.3	870.1	868.8
135°	939.5	940.1	939.9	939.6	939.3	939.1	938.1	937.0	936.0	935.0	934.2
137.5°	998.6	999.6	1000.2	1000.9	1001.6	1002.3	1001.1	1000.1	999.0	997.9	996.9
140°	1040.3	1041.0	1041.3	1041.5	1041.8	1042.1	1041.8	1041.5	1041.3	1041.0	1040.0
142.5°	1078.2	1079.1	1079.5	1080.0	1080.4	1080.9	1080.7	1080.4	1080.1	1079.9	1079.1
145°	1134.3	1135.0	1135.7	1136.5	1137.3	1138.0	1137.7	1137.5	1137.3	1137.0	1136.4
147.5°	1187.8	1188.6	1189.3	1190.0	1190.7	1191.4	1191.4	1191.4	1191.4	1191.4	1190.7
150°	1222.2	1222.7	1223.2	1223.7	1224.2	1224.8	1224.8	1224.8	1224.8	1224.8	1224.0
152.5°	1252.6	1253.1	1253.5	1253.7	1254.1	1254.4	1254.8	1255.2	1255.6	1256.0	1255.5
155°	1296.5	1296.6	1296.8	1297.1	1297.4	1297.6	1298.7	1299.7	1300.7	1301.7	1301.4
157.5°	1335.0	1335.0	1335.2	1335.3	1335.6	1335.8	1336.9	1337.9	1339.0	1340.2	1339.9
160°	1359.1	1358.9	1358.9	1358.9	1358.9	1358.9	1360.2	1361.5	1362.8	1364.1	1364.2
162.5°	1380.5	1380.3	1380.5	1380.7	1380.9	1381.1	1382.4	1383.7	1385.0	1386.3	1386.1
165°	1409.1	1408.6	1408.6	1408.6	1408.6	1408.6	1410.2	1411.8	1413.3	1414.8	1414.7
167.5°	1430.9	1430.5	1430.7	1430.9	1431.1	1431.3	1432.9	1434.5	1436.1	1437.7	1437.7
170°	1443.9	1443.3	1443.3	1443.3	1443.3	1443.3	1445.1	1447.0	1448.8	1450.5	1450.5
172.5°	1454.0	1453.5	1453.5	1453.5	1453.5	1453.5	1455.1	1456.7	1458.3	1459.9	1459.8
175°	1464.6	1464.2	1464.2	1464.2	1464.2	1464.2	1465.7	1467.2	1468.8	1470.3	1470.2
177.5°	1469.9	1469.5	1469.5	1469.5	1469.5	1469.5	1470.7	1471.9	1473.2	1474.4	1474.4
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



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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°	9.6	9.7	9.6	9.6	9.6	9.7	9.6	9.5	10.0	9.4	9.1
90°	33.2	33.7	34.2	34.7	34.2	33.7	33.2	32.6	31.8	30.9	29.8
92.5°	47.6	47.3	47.0	46.7	47.0	47.3	47.6	48.0	47.7	46.9	46.0
95°	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	89.7	88.6	87.7
97.5°	139.1	139.0	138.9	138.8	138.9	139.0	139.1	139.2	138.7	137.5	136.3
100°	174.2	174.8	175.3	175.8	175.3	174.8	174.2	173.7	173.1	172.3	171.6
102.5°	214.0	213.9	213.8	213.7	213.8	213.9	214.0	214.1	213.8	213.0	212.2
105°	273.8	274.2	274.7	275.3	274.7	274.2	273.8	273.2	273.0	273.0	273.0
107.5°	340.3	339.9	339.7	339.3	339.7	339.9	340.3	340.5	340.3	339.5	338.7
110°	384.3	383.9	383.3	382.8	383.3	383.9	384.3	384.9	384.6	383.6	382.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	429.4	429.3	429.2	429.1	429.2	429.3	429.4	429.4	428.9	427.7	426.4
115°	493.5	493.2	492.9	492.7	492.9	493.2	493.5	493.7	493.7	493.5	493.2
117.5°	559.4	558.7	557.9	557.2	557.9	558.7	559.4	560.1	560.4	560.5	560.6
120°	604.1	603.6	603.1	602.5	603.1	603.6	604.1	604.6	605.0	605.3	605.5
122.5°	648.2	647.5	646.8	646.0	646.8	647.5	648.2	648.9	649.6	650.2	650.9
125°	714.3	713.3	712.3	711.2	712.3	713.3	714.3	715.4	716.4	717.5	718.5
127.5°	779.8	778.6	777.5	776.2	777.5	778.6	779.8	781.0	782.3	783.7	785.2
130°	824.2	822.4	820.6	818.9	820.6	822.4	824.2	826.0	827.4	828.5	829.5
132.5°	867.4	866.0	864.6	863.3	864.6	866.0	867.4	868.8	870.1	871.3	872.5
135°	933.7	933.2	932.6	932.2	932.6	933.2	933.7	934.2	935.0	936.0	937.0
137.5°	996.0	995.0	994.0	993.0	994.0	995.0	996.0	996.9	997.9	999.0	1000.1
140°	1038.2	1036.3	1034.6	1032.8	1034.6	1036.3	1038.2	1040.0	1041.0	1041.3	1041.5
142.5°	1077.6	1076.3	1074.9	1073.5	1074.9	1076.3	1077.6	1079.1	1079.9	1080.1	1080.4
145°	1135.3	1134.3	1133.3	1132.2	1133.3	1134.3	1135.3	1136.4	1137.0	1137.3	1137.5
147.5°	1189.2	1187.6	1186.1	1184.5	1186.1	1187.6	1189.2	1190.7	1191.4	1191.4	1191.4
150°	1222.4	1220.9	1219.3	1217.8	1219.3	1220.9	1222.4	1224.0	1224.8	1224.8	1224.8
152.5°	1254.2	1252.9	1251.5	1250.2	1251.5	1252.9	1254.2	1255.5	1256.0	1255.6	1255.2
155°	1299.6	1297.8	1295.9	1294.1	1295.9	1297.8	1299.6	1301.4	1301.7	1300.7	1299.7
157.5°	1338.5	1337.0	1335.6	1334.2	1335.6	1337.0	1338.5	1339.9	1340.2	1339.0	1337.9
160°	1363.2	1362.2	1361.1	1360.0	1361.1	1362.2	1363.2	1364.2	1364.1	1362.8	1361.5
162.5°	1384.5	1382.8	1381.2	1379.5	1381.2	1382.8	1384.5	1386.1	1386.3	1385.0	1383.7
165°	1412.9	1411.1	1409.3	1407.5	1409.3	1411.1	1412.9	1414.7	1414.8	1413.3	1411.8
167.5°	1436.1	1434.5	1432.9	1431.3	1432.9	1434.5	1436.1	1437.7	1437.7	1436.1	1434.5
170°	1448.8	1447.0	1445.1	1443.3	1445.1	1447.0	1448.8	1450.5	1450.5	1448.8	1447.0
172.5°	1458.0	1456.2	1454.4	1452.6	1454.4	1456.2	1458.0	1459.8	1459.9	1458.3	1456.7
175°	1468.4	1466.6	1464.8	1463.0	1464.8	1466.6	1468.4	1470.2	1470.3	1468.8	1467.2
177.5°	1472.8	1471.4	1470.0	1468.6	1470.0	1471.4	1472.8	1474.4	1474.4	1473.2	1471.9
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



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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°	9.3	9.0	8.2	7.7	6.9	6.3	5.6	5.3	4.9	4.4	4.2
90°	28.8	27.7	24.4	21.0	17.7	14.4	11.4	8.8	6.3	3.7	1.2
92.5°	45.2	44.4	42.5	40.6	38.7	36.8	35.0	33.3	31.5	29.7	28.0
95°	86.6	85.6	83.6	81.5	79.5	77.4	75.4	73.7	71.9	70.0	68.2
97.5°	135.1	133.9	132.4	130.9	129.5	128.0	126.5	125.2	123.9	122.5	121.2
100°	170.8	170.0	168.7	167.5	166.1	164.9	163.5	161.9	160.3	158.8	157.3
102.5°	211.5	210.7	209.0	207.3	205.6	203.9	202.6	201.7	200.8	199.8	198.9
105°	273.0	273.0	270.6	268.3	266.0	263.7	262.3	261.7	261.3	260.7	260.2
107.5°	337.9	337.0	336.1	335.2	334.2	333.3	332.7	332.4	332.1	331.8	331.4
110°	381.6	380.5	380.0	379.5	379.0	378.4	377.9	377.4	376.9	376.4	375.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	425.3	424.0	423.9	423.7	423.7	423.6	423.4	423.0	422.8	422.4	422.1
115°	492.9	492.7	493.2	493.7	494.2	494.7	494.6	493.8	493.0	492.3	491.5
117.5°	560.6	560.7	561.3	562.0	562.7	563.4	563.5	562.9	562.4	561.9	561.4
120°	605.7	606.0	607.3	608.6	609.8	611.2	611.0	609.5	608.0	606.4	604.8
122.5°	651.6	652.3	652.9	653.6	654.2	655.0	654.7	653.6	652.5	651.3	650.2
125°	719.5	720.5	721.0	721.6	722.0	722.6	722.5	721.7	720.9	720.1	719.3
127.5°	786.6	788.1	788.6	789.2	789.8	790.3	789.8	788.1	786.5	784.9	783.2
130°	830.5	831.5	832.3	833.1	833.8	834.6	834.0	832.0	829.9	827.8	825.7
132.5°	873.8	875.0	875.6	876.2	876.7	877.3	876.6	874.5	872.4	870.4	868.3
135°	938.1	939.1	939.3	939.6	939.9	940.1	939.5	937.9	936.4	934.9	933.4
137.5°	1001.1	1002.3	1001.6	1000.9	1000.2	999.6	998.6	997.3	996.0	994.7	993.5
140°	1041.8	1042.1	1041.8	1041.5	1041.3	1041.0	1040.3	1038.9	1037.7	1036.3	1035.1
142.5°	1080.7	1080.9	1080.4	1080.0	1079.5	1079.1	1078.2	1076.9	1075.6	1074.3	1073.0
145°	1137.7	1138.0	1137.3	1136.5	1135.7	1135.0	1134.3	1133.8	1133.3	1132.7	1132.2
147.5°	1191.4	1191.4	1190.7	1190.0	1189.3	1188.6	1187.8	1186.9	1185.9	1185.0	1184.0
150°	1224.8	1224.8	1224.2	1223.7	1223.2	1222.7	1222.2	1221.6	1221.2	1220.7	1220.1
152.5°	1254.8	1254.4	1254.1	1253.7	1253.5	1253.1	1252.6	1251.9	1251.2	1250.4	1249.7
155°	1298.7	1297.6	1297.4	1297.1	1296.8	1296.6	1296.5	1296.5	1296.5	1296.5	1296.5
157.5°	1336.9	1335.8	1335.6	1335.3	1335.2	1335.0	1335.0	1335.3	1335.6	1336.0	1336.2
160°	1360.2	1358.9	1358.9	1358.9	1358.9	1358.9	1359.1	1359.7	1360.2	1360.8	1361.2
162.5°	1382.4	1381.1	1380.9	1380.7	1380.5	1380.3	1380.5	1381.3	1382.0	1382.7	1383.4
165°	1410.2	1408.6	1408.6	1408.6	1408.6	1408.6	1409.1	1409.8	1410.6	1411.3	1412.1
167.5°	1432.9	1431.3	1431.1	1430.9	1430.7	1430.5	1430.9	1431.9	1433.0	1434.0	1435.0
170°	1445.1	1443.3	1443.3	1443.3	1443.3	1443.3	1443.9	1444.9	1445.9	1447.0	1448.0
172.5°	1455.1	1453.5	1453.5	1453.5	1453.5	1453.5	1454.0	1455.1	1456.1	1457.1	1458.1
175°	1465.7	1464.2	1464.2	1464.2	1464.2	1464.2	1464.6	1465.7	1466.8	1467.8	1468.8
177.5°	1470.7	1469.5	1469.5	1469.5	1469.5	1469.5	1469.9	1470.7	1471.5	1472.4	1473.2
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



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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°	5.1	5.6	6.6	7.4	8.7	9.9	10.3	10.7	11.2	11.2	11.3
90°	3.7	6.3	8.8	11.4	14.4	17.7	21.0	24.4	27.7	28.8	29.8
92.5°	29.7	31.5	33.3	35.0	36.8	38.7	40.6	42.5	44.4	45.2	46.0
95°	70.0	71.9	73.7	75.4	77.4	79.5	81.5	83.6	85.6	86.6	87.7
97.5°	122.5	123.9	125.2	126.5	128.0	129.5	130.9	132.4	133.9	135.1	136.3
100°	158.8	160.3	161.9	163.5	164.9	166.1	167.5	168.7	170.0	170.8	171.6
102.5°	199.8	200.8	201.7	202.6	203.9	205.6	207.3	209.0	210.7	211.5	212.2
105°	260.7	261.3	261.7	262.3	263.7	266.0	268.3	270.6	273.0	273.0	273.0
107.5°	331.8	332.1	332.4	332.7	333.3	334.2	335.2	336.1	337.0	337.9	338.7
110°	376.4	376.9	377.4	377.9	378.4	379.0	379.5	380.0	380.5	381.6	382.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	422.4	422.8	423.0	423.4	423.6	423.7	423.7	423.9	424.0	425.3	426.4
115°	492.3	493.0	493.8	494.6	494.7	494.2	493.7	493.2	492.7	492.9	493.2
117.5°	561.9	562.4	562.9	563.5	563.4	562.7	562.0	561.3	560.7	560.6	560.6
120°	606.4	608.0	609.5	611.0	611.2	609.8	608.6	607.3	606.0	605.7	605.5
122.5°	651.3	652.5	653.6	654.7	655.0	654.2	653.6	652.9	652.3	651.6	650.9
125°	720.1	720.9	721.7	722.5	722.6	722.0	721.6	721.0	720.5	719.5	718.5
127.5°	784.9	786.5	788.1	789.8	790.3	789.8	789.2	788.6	788.1	786.6	785.2
130°	827.8	829.9	832.0	834.0	834.6	833.8	833.1	832.3	831.5	830.5	829.5
132.5°	870.4	872.4	874.5	876.6	877.3	876.7	876.2	875.6	875.0	873.8	872.5
135°	934.9	936.4	937.9	939.5	940.1	939.9	939.6	939.3	939.1	938.1	937.0
137.5°	994.7	996.0	997.3	998.6	999.6	1000.2	1000.9	1001.6	1002.3	1001.1	1000.1
140°	1036.3	1037.7	1038.9	1040.3	1041.0	1041.3	1041.5	1041.8	1042.1	1041.8	1041.5
142.5°	1074.3	1075.6	1076.9	1078.2	1079.1	1079.5	1080.0	1080.4	1080.9	1080.7	1080.4
145°	1132.7	1133.3	1133.8	1134.3	1135.0	1135.7	1136.5	1137.3	1138.0	1137.7	1137.5
147.5°	1185.0	1185.9	1186.9	1187.8	1188.6	1189.3	1190.0	1190.7	1191.4	1191.4	1191.4
150°	1220.7	1221.2	1221.6	1222.2	1222.7	1223.2	1223.7	1224.2	1224.8	1224.8	1224.8
152.5°	1250.4	1251.2	1251.9	1252.6	1253.1	1253.5	1253.7	1254.1	1254.4	1254.8	1255.2
155°	1296.5	1296.5	1296.5	1296.5	1296.6	1296.8	1297.1	1297.4	1297.6	1298.7	1299.7
157.5°	1336.0	1335.6	1335.3	1335.0	1335.0	1335.2	1335.3	1335.6	1335.8	1336.9	1337.9
160°	1360.8	1360.2	1359.7	1359.1	1358.9	1358.9	1358.9	1358.9	1358.9	1360.2	1361.5
162.5°	1382.7	1382.0	1381.3	1380.5	1380.3	1380.5	1380.7	1380.9	1381.1	1382.4	1383.7
165°	1411.3	1410.6	1409.8	1409.1	1408.6	1408.6	1408.6	1408.6	1408.6	1410.2	1411.8
167.5°	1434.0	1433.0	1431.9	1430.9	1430.5	1430.7	1430.9	1431.1	1431.3	1432.9	1434.5
170°	1447.0	1445.9	1444.9	1443.9	1443.3	1443.3	1443.3	1443.3	1443.3	1445.1	1447.0
172.5°	1457.1	1456.1	1455.1	1454.0	1453.5	1453.5	1453.5	1453.5	1453.5	1455.1	1456.7
175°	1467.8	1466.8	1465.7	1464.6	1464.2	1464.2	1464.2	1464.2	1464.2	1465.7	1467.2
177.5°	1472.4	1471.5	1470.7	1469.9	1469.5	1469.5	1469.5	1469.5	1469.5	1470.7	1471.9
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



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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°	11.3	11.3	11.3	11.6	11.6	11.5	11.9
90°	30.9	31.8	32.6	33.2	33.7	34.2	34.7
92.5°	46.9	47.7	48.0	47.6	47.3	47.0	46.7
95°	88.6	89.7	90.2	90.2	90.2	90.2	90.2
97.5°	137.5	138.7	139.2	139.1	139.0	138.9	138.8
100°	172.3	173.1	173.7	174.2	174.8	175.3	175.8
102.5°	213.0	213.8	214.1	214.0	213.9	213.8	213.7
105°	273.0	273.0	273.2	273.8	274.2	274.7	275.3
107.5°	339.5	340.3	340.5	340.3	339.9	339.7	339.3
110°	383.6	384.6	384.9	384.3	383.9	383.3	382.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	427.7	428.9	429.4	429.4	429.3	429.2	429.1
115°	493.5	493.7	493.7	493.5	493.2	492.9	492.7
117.5°	560.5	560.4	560.1	559.4	558.7	557.9	557.2
120°	605.3	605.0	604.6	604.1	603.6	603.1	602.5
122.5°	650.2	649.6	648.9	648.2	647.5	646.8	646.0
125°	717.5	716.4	715.4	714.3	713.3	712.3	711.2
127.5°	783.7	782.3	781.0	779.8	778.6	777.5	776.2
130°	828.5	827.4	826.0	824.2	822.4	820.6	818.9
132.5°	871.3	870.1	868.8	867.4	866.0	864.6	863.3
135°	936.0	935.0	934.2	933.7	933.2	932.6	932.2
137.5°	999.0	997.9	996.9	996.0	995.0	994.0	993.0
140°	1041.3	1041.0	1040.0	1038.2	1036.3	1034.6	1032.8
142.5°	1080.1	1079.9	1079.1	1077.6	1076.3	1074.9	1073.5
145°	1137.3	1137.0	1136.4	1135.3	1134.3	1133.3	1132.2
147.5°	1191.4	1191.4	1190.7	1189.2	1187.6	1186.1	1184.5
150°	1224.8	1224.8	1224.0	1222.4	1220.9	1219.3	1217.8
152.5°	1255.6	1256.0	1255.5	1254.2	1252.9	1251.5	1250.2
155°	1300.7	1301.7	1301.4	1299.6	1297.8	1295.9	1294.1
157.5°	1339.0	1340.2	1339.9	1338.5	1337.0	1335.6	1334.2
160°	1362.8	1364.1	1364.2	1363.2	1362.2	1361.1	1360.0
162.5°	1385.0	1386.3	1386.1	1384.5	1382.8	1381.2	1379.5
165°	1413.3	1414.8	1414.7	1412.9	1411.1	1409.3	1407.5
167.5°	1436.1	1437.7	1437.7	1436.1	1434.5	1432.9	1431.3
170°	1448.8	1450.5	1450.5	1448.8	1447.0	1445.1	1443.3
172.5°	1458.3	1459.9	1459.8	1458.0	1456.2	1454.4	1452.6
175°	1468.8	1470.3	1470.2	1468.4	1466.6	1464.8	1463.0
177.5°	1473.2	1474.4	1474.4	1472.8	1471.4	1470.0	1468.6
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3

(END OF REPORT)