

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: P331267-840

Luminaire Tested: **SA2XXDIP-C290D925U840-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331267-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C290D925U840-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

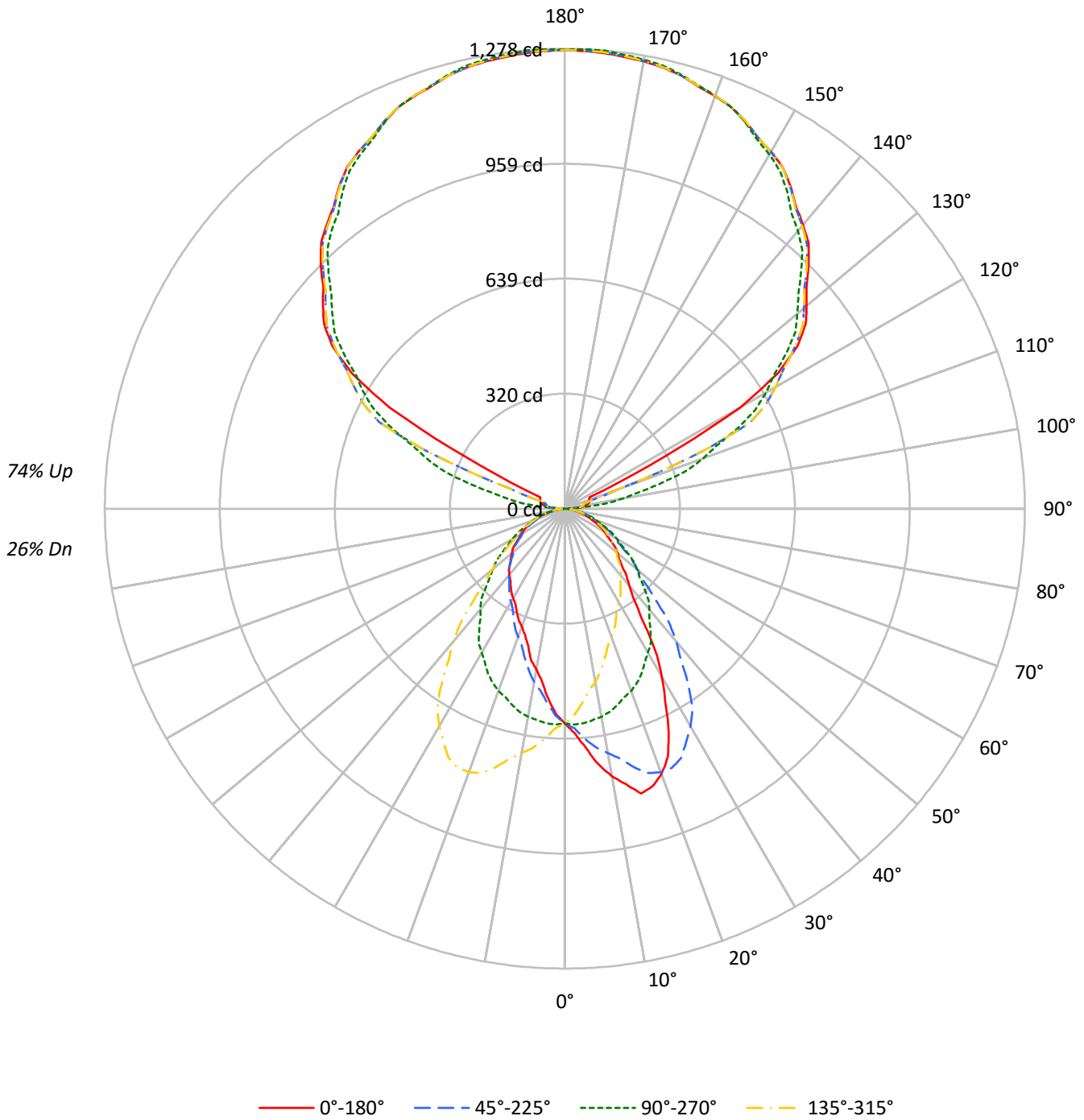
Lumens per Lamp: N/A  
Luminaire Lumens: 5055.4 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26				
1	93	89	85	82	83	79	76	73	62	60	58	45	44	43	31	30	29	22				
2	85	78	72	67	75	69	65	61	54	51	48	40	38	36	27	26	25	19				
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	24	23	22	17				
4	71	61	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19	14				
5	65	54	46	41	58	48	42	37	38	34	30	29	26	23	20	18	16	13				
6	60	48	41	35	53	43	37	32	34	30	26	26	23	20	18	16	15	11				
7	55	44	36	31	49	39	33	28	31	26	23	24	20	18	16	15	13	10				
8	51	39	32	27	46	36	29	25	28	24	20	22	18	16	15	13	12	9				
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8				
10	44	33	26	21	40	30	24	20	24	19	16	18	15	13	13	11	10	8				

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

	0°	90°	180°	270°
0°	9637	9637	9637	9637
5°	10804	9700	8596	9700
10°	12381	9621	7438	9621
15°	13697	9444	6572	9444
20°	13490	9256	5991	9256
25°	12162	9002	5624	9002
30°	10051	8600	5354	8600
35°	7324	8180	5164	8180
40°	5851	7685	5056	7685
45°	5112	7108	4914	7108
50°	4808	6551	4818	6551
55°	4428	5987	4687	5987
60°	4059	5383	4492	5383
65°	3698	4844	4294	4844
70°	3356	4319	4008	4319
75°	2982	3737	3550	3737
80°	2566	3087	2854	3087
85°	2297	2297	1704	2297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	1.1
10°-20°	165.3	3.3
20°-30°	239.9	4.7
30°-40°	253.1	5.0
40°-50°	224.1	4.4
50°-60°	178.8	3.5
60°-70°	121.6	2.4
70°-80°	62.3	1.2
80°-90°	18.2	0.4
90°-100°	42.5	0.8
100°-110°	155.9	3.1
110°-120°	416.8	8.2
120°-130°	688.0	13.6
130°-140°	731.7	14.5
140°-150°	680.1	13.5
150°-160°	546.8	10.8
160°-170°	352.3	7.0
170°-180°	121.3	2.4
0°-30°	462.0	9.1
0°-40°	715.1	14.1
0°-60°	1118.0	22.1
0°-90°	1320.1	26.1
90°-120°	615.2	12.2
90°-150°	2714.9	53.7
90°-180°	3735.0	73.9
0°-180°	5055.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	597	597	597	597	597	
5°	667	598	530	598	667	67
15°	819	565	393	565	819	226
25°	683	505	316	505	683	309
35°	372	415	262	415	372	242
45°	224	311	215	311	224	176
55°	157	213	166	213	157	141
65°	97	127	112	127	97	96
75°	48	60	57	60	48	51
85°	12	12	9	12	12	14
90°	25	1	25	1	25	12
95°	40	60	40	60	40	37
105°	70	280	70	280	70	73
115°	76	530	76	530	76	189
125°	789	750	789	750	789	682
135°	958	928	958	928	958	739
145°	1093	1076	1093	1076	1093	683
155°	1186	1185	1186	1185	1186	547
165°	1246	1249	1246	1249	1246	352
175°	1270	1277	1270	1277	1270	121
180°	1275	1275	1275	1275	1275	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	624.4	624.6	625.0	622.1	621.7	621.7	619.1	616.9	614.3	610.9	611.3
5°	666.6	669.1	670.0	667.3	663.2	662.8	658.8	652.5	646.4	641.7	638.2
7.5°	717.0	718.0	715.8	712.2	709.1	703.6	696.3	689.2	679.2	670.1	663.4
10°	755.2	756.6	752.7	747.4	743.1	736.6	726.1	715.3	702.3	689.6	679.5
12.5°	784.2	787.6	782.5	781.9	774.5	765.6	753.1	747.6	729.2	711.7	700.7
15°	819.4	819.2	819.7	815.3	809.8	808.4	795.2	780.6	754.8	744.4	726.5
17.5°	809.2	812.7	814.4	814.3	814.2	813.2	809.0	799.9	786.9	770.1	749.5
20°	785.1	789.6	790.3	795.6	798.6	802.4	804.1	801.5	793.6	779.5	761.6
22.5°	747.6	748.9	751.0	759.2	765.7	775.5	780.5	789.1	786.0	779.1	764.2
25°	682.7	680.4	688.4	692.6	707.5	723.1	734.4	746.7	757.7	764.4	760.0
27.5°	604.8	601.4	613.4	624.4	636.4	653.4	670.9	691.6	708.7	730.3	737.7
30°	539.1	541.2	552.6	564.3	582.7	606.5	626.3	648.9	673.6	697.6	714.4
32.5°	468.3	476.2	483.4	501.4	517.6	544.1	573.1	601.5	632.1	659.4	685.4
35°	371.6	380.8	390.9	403.9	426.7	453.0	481.3	519.6	561.4	598.7	629.4
37.5°	312.9	311.3	317.1	326.6	345.0	366.3	398.8	436.6	485.7	529.7	573.1
40°	277.6	276.7	280.7	289.5	303.5	319.1	347.6	380.8	426.5	480.2	531.8
42.5°	253.4	253.9	256.2	262.4	272.0	284.8	306.1	334.4	376.2	426.8	482.2
45°	223.9	225.5	228.0	231.1	236.5	247.1	259.0	279.2	312.3	354.5	409.0
47.5°	202.7	202.8	205.3	207.9	211.2	217.1	226.9	239.5	262.9	297.2	344.2
50°	191.4	189.8	191.6	193.6	197.0	201.2	207.6	219.5	235.1	262.9	302.2
52.5°	177.3	177.4	179.0	179.9	182.9	187.0	192.9	201.2	215.3	237.0	269.2
55°	157.3	158.5	159.5	160.8	163.6	166.5	171.2	176.6	187.6	203.9	227.8
57.5°	138.6	139.0	139.9	142.5	144.2	146.9	151.3	156.3	163.5	175.5	193.5
60°	125.7	125.7	127.5	128.7	131.0	133.7	137.1	142.0	148.5	158.2	172.8
62.5°	114.0	113.8	114.5	116.4	118.2	120.7	124.1	128.3	134.3	143.1	154.9
65°	96.8	96.3	97.8	98.2	100.0	102.5	105.3	109.7	114.5	120.9	131.5
67.5°	80.3	80.9	81.6	82.4	83.4	86.1	88.0	91.0	95.1	100.5	107.6
70°	71.1	71.1	71.1	71.8	73.2	74.5	76.3	78.9	82.8	87.4	93.8
72.5°	60.8	61.6	62.3	61.9	63.6	64.4	66.7	68.1	71.8	74.7	80.4
75°	47.8	47.8	47.8	48.9	49.6	50.2	51.6	53.0	54.8	58.5	61.5
77.5°	35.6	35.5	35.7	36.1	36.8	37.6	38.0	39.2	40.9	42.6	45.1
80°	27.6	28.0	28.2	28.7	28.7	29.1	29.4	31.0	32.1	33.2	34.8
82.5°	21.3	21.4	21.4	21.5	21.7	22.0	22.6	23.1	23.5	24.4	25.7
85°	12.4	12.1	12.1	12.6	12.4	12.4	12.8	13.3	13.3	13.5	14.2
87.5°	9.8	9.7	9.8	9.5	9.4	9.5	9.3	8.9	8.9	8.8	8.7
90°	24.9	24.5	24.0	23.6	23.2	22.5	21.5	20.5	19.5	18.5	16.8
92.5°	24.9	24.6	24.4	24.1	23.9	23.5	23.0	22.4	21.9	21.4	20.6
95°	39.7	39.9	40.1	40.3	40.5	40.1	39.1	38.0	37.0	36.0	34.5
97.5°	52.9	52.7	52.4	52.2	51.9	51.4	50.6	49.8	49.0	48.2	44.8
100°	61.8	61.4	61.0	60.6	60.2	59.2	57.5	55.8	54.2	52.6	49.1
102.5°	66.2	65.6	65.0	64.5	63.9	62.6	60.5	58.3	56.1	54.0	83.2
105°	70.1	69.3	68.5	67.7	66.9	65.2	63.0	60.8	58.5	56.2	112.2
107.5°	72.1	71.3	70.5	69.7	68.9	69.6	71.9	74.1	76.4	78.8	145.8
110°	72.9	72.0	71.2	70.4	69.6	79.4	99.9	120.4	140.9	161.4	220.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	73.6	72.9	72.3	71.6	71.0	108.1	182.8	257.6	332.3	407.1	421.7
115°	75.6	90.4	105.1	119.9	134.6	189.5	284.4	379.3	474.1	569.1	563.9
117.5°	308.8	357.3	405.8	454.2	502.7	538.5	561.5	584.4	607.3	630.3	626.8
120°	562.6	590.3	617.9	645.6	673.3	685.9	683.5	681.0	678.5	676.0	672.4
122.5°	702.1	707.4	712.8	718.2	723.6	725.5	724.0	722.6	721.0	719.6	715.6
125°	788.6	788.0	787.3	786.7	786.1	785.1	783.7	782.2	780.8	779.3	775.5
127.5°	843.1	843.0	842.9	842.8	842.6	841.6	839.5	837.4	835.3	833.2	830.3
130°	877.1	877.3	877.5	877.8	878.0	876.9	874.6	872.4	870.1	867.9	865.7
132.5°	910.3	910.5	910.7	910.9	911.1	910.3	908.4	906.5	904.5	902.5	900.3
135°	958.3	958.7	959.1	959.5	959.9	959.1	957.0	955.0	952.9	950.9	949.1
137.5°	1002.0	1002.7	1003.4	1004.1	1004.8	1004.1	1002.1	1000.1	998.0	996.1	994.0
140°	1029.3	1030.4	1031.4	1032.4	1033.4	1033.0	1031.2	1029.3	1027.4	1025.6	1023.4
142.5°	1055.8	1056.9	1057.9	1058.9	1060.0	1059.7	1057.9	1056.2	1054.6	1052.9	1050.4
145°	1093.0	1094.0	1095.0	1096.0	1097.0	1096.8	1095.4	1094.0	1092.5	1091.1	1087.6
147.5°	1125.6	1126.4	1127.3	1128.1	1129.0	1128.9	1127.8	1126.8	1125.7	1124.7	1121.3
150°	1145.5	1146.5	1147.5	1148.6	1149.6	1149.5	1148.3	1147.0	1145.8	1144.6	1141.3
152.5°	1162.5	1163.9	1165.2	1166.5	1167.9	1167.9	1166.7	1165.5	1164.3	1163.1	1159.9
155°	1186.1	1187.7	1189.3	1191.0	1192.7	1192.9	1191.6	1190.4	1189.1	1187.9	1185.5
157.5°	1207.7	1209.2	1210.8	1212.4	1214.1	1214.2	1212.7	1211.3	1210.0	1208.6	1206.9
160°	1220.2	1221.6	1223.0	1224.5	1226.0	1226.1	1224.9	1223.6	1222.3	1221.1	1219.9
162.5°	1230.5	1232.3	1234.1	1235.9	1237.6	1237.8	1236.4	1235.0	1233.6	1232.2	1231.1
165°	1246.1	1247.5	1248.9	1250.3	1251.7	1251.7	1250.3	1248.9	1247.5	1246.1	1245.5
167.5°	1255.8	1257.7	1259.5	1261.3	1263.1	1263.4	1261.9	1260.5	1259.1	1257.7	1257.1
170°	1261.7	1263.5	1265.4	1267.3	1269.1	1269.3	1267.9	1266.5	1265.0	1263.5	1263.1
172.5°	1266.2	1268.0	1269.8	1271.6	1273.5	1273.7	1272.3	1270.8	1269.4	1268.0	1267.6
175°	1270.0	1272.0	1274.1	1276.2	1278.2	1278.5	1277.1	1275.7	1274.2	1272.7	1272.3
177.5°	1272.4	1273.8	1275.4	1276.9	1278.3	1278.5	1277.4	1276.2	1275.1	1273.8	1273.7
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	612.5	611.1	610.2	606.8	603.9	601.0	600.1	600.4	596.3	592.5	590.9
5°	636.4	631.8	627.4	621.3	613.9	605.8	601.8	598.5	590.5	581.8	576.7
7.5°	657.7	651.2	642.8	631.2	620.5	607.8	599.8	592.7	581.0	568.7	561.1
10°	670.8	661.9	651.1	636.8	623.8	608.3	597.6	586.8	573.1	558.4	549.2
12.5°	682.0	669.9	659.3	641.1	625.6	606.3	593.6	578.3	563.9	546.4	537.5
15°	708.6	686.4	666.2	645.5	626.5	599.7	585.4	565.0	546.0	524.4	514.1
17.5°	729.2	704.2	672.5	646.2	624.0	594.2	573.4	549.0	526.4	501.8	487.8
20°	740.9	712.3	678.1	646.9	620.4	586.3	563.6	538.7	512.3	484.5	469.4
22.5°	747.9	717.8	684.0	644.2	613.0	580.0	551.4	523.9	497.3	467.3	451.4
25°	750.1	722.7	686.8	641.9	603.8	566.4	532.0	505.3	473.0	445.0	421.9
27.5°	739.2	719.5	685.1	637.5	593.2	549.5	511.1	481.0	446.9	416.5	393.1
30°	725.8	714.4	680.9	633.2	584.7	537.8	495.5	461.3	427.4	396.7	372.7
32.5°	705.1	702.7	673.2	626.9	575.7	522.9	479.2	444.6	407.0	376.8	354.1
35°	664.4	675.4	656.8	613.0	558.9	501.7	454.4	415.0	376.0	347.1	325.8
37.5°	609.8	637.1	632.3	592.6	535.9	478.7	426.5	385.3	348.1	318.9	298.0
40°	572.1	607.0	612.1	576.9	519.9	460.9	405.6	364.6	328.3	301.6	280.5
42.5°	531.8	572.5	586.3	558.3	502.2	442.1	386.9	344.4	308.4	282.6	263.9
45°	464.1	518.0	543.0	526.9	472.8	411.3	354.5	311.3	278.7	254.4	239.9
47.5°	400.8	459.7	493.3	487.7	440.1	379.2	323.0	281.6	249.8	230.5	217.5
50°	356.1	416.6	457.2	459.1	416.6	356.3	299.8	260.8	231.7	213.6	203.0
52.5°	317.1	375.0	419.2	429.0	390.3	332.4	279.1	240.2	214.6	197.9	188.5
55°	266.3	315.2	364.3	382.2	351.2	296.2	246.8	212.7	188.5	177.1	168.8
57.5°	221.5	262.2	307.5	327.3	308.2	261.1	214.8	185.1	165.6	155.5	149.2
60°	197.7	229.8	270.2	293.9	277.3	235.4	195.0	166.7	150.7	141.8	135.8
62.5°	175.7	204.2	238.3	259.9	251.0	211.4	175.2	150.3	136.4	128.1	123.7
65°	145.0	167.4	193.9	213.8	207.8	177.8	148.1	126.8	115.8	109.2	105.7
67.5°	119.4	135.6	153.9	171.4	166.6	145.3	121.6	104.9	96.7	91.0	88.9
70°	103.2	115.6	131.9	145.9	142.0	124.6	105.7	91.5	84.4	79.6	77.6
72.5°	87.9	98.0	110.5	121.9	119.3	104.7	89.1	78.4	72.8	68.4	66.8
75°	66.3	74.1	81.7	89.3	88.6	77.4	68.2	59.9	55.5	52.1	51.4
77.5°	49.0	53.3	58.5	62.9	61.7	55.2	48.1	43.3	40.2	37.9	37.5
80°	37.4	39.9	43.6	46.8	45.2	42.4	36.7	33.2	31.0	28.7	27.8
82.5°	27.2	29.6	31.8	33.6	32.3	29.8	26.3	23.9	22.5	21.0	20.6
85°	14.2	15.6	16.6	17.0	16.6	14.9	13.3	12.4	11.2	10.5	10.3
87.5°	8.6	8.2	7.9	7.9	6.9	6.4	5.3	4.2	4.4	4.7	4.8
90°	15.1	13.5	11.9	9.9	7.7	5.5	3.1	0.9	3.1	5.5	7.7
92.5°	19.8	19.0	18.1	17.8	18.0	18.2	18.4	18.6	18.4	18.2	18.0
95°	33.1	31.7	30.2	32.9	39.7	46.5	53.2	60.0	53.2	46.5	39.7
97.5°	41.5	38.2	34.8	42.7	61.8	80.9	99.9	119.0	99.9	80.9	61.8
100°	45.6	42.1	38.7	50.9	79.0	107.0	135.1	163.3	135.1	107.0	79.0
102.5°	112.3	141.5	170.7	188.1	194.1	200.1	206.0	212.0	206.0	200.1	194.1
105°	168.1	224.1	280.0	305.0	298.8	292.7	286.5	280.3	286.5	292.7	298.8
107.5°	213.0	280.0	347.2	378.3	373.2	368.3	363.3	358.4	363.3	368.3	373.2
110°	279.8	339.1	398.3	425.8	421.5	417.2	412.9	408.6	412.9	417.2	421.5





TEST NUMBER: P331267-840  
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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	436.4	451.0	465.6	471.0	467.3	463.4	459.6	455.8	459.6	463.4	467.3
115°	558.9	553.7	548.6	544.2	540.8	537.2	533.8	530.3	533.8	537.2	540.8
117.5°	623.3	619.8	616.2	612.5	608.6	604.7	600.8	596.9	600.8	604.7	608.6
120°	668.6	665.0	661.3	657.9	654.8	651.8	648.6	645.6	648.6	651.8	654.8
122.5°	711.6	707.5	703.5	699.8	696.6	693.4	690.1	686.9	690.1	693.4	696.6
125°	771.5	767.7	763.8	760.5	757.8	755.2	752.5	749.8	752.5	755.2	757.8
127.5°	827.4	824.5	821.5	818.6	815.7	812.7	809.8	806.8	809.8	812.7	815.7
130°	863.3	861.1	858.9	856.1	852.8	849.5	846.3	843.0	846.3	849.5	852.8
132.5°	898.1	895.9	893.5	891.0	888.3	885.4	882.6	879.9	882.6	885.4	888.3
135°	947.3	945.3	943.5	941.0	937.7	934.4	931.1	927.9	931.1	934.4	937.7
137.5°	991.9	989.8	987.7	985.5	983.2	981.0	978.7	976.3	978.7	981.0	983.2
140°	1021.1	1018.9	1016.6	1014.6	1013.0	1011.4	1009.8	1008.0	1009.8	1011.4	1013.0
142.5°	1047.7	1045.1	1042.6	1040.6	1039.1	1037.6	1036.1	1034.6	1036.1	1037.6	1039.1
145°	1084.1	1080.7	1077.1	1075.5	1075.7	1075.9	1076.1	1076.3	1076.1	1075.9	1075.7
147.5°	1117.8	1114.3	1110.9	1109.5	1110.3	1111.2	1111.9	1112.7	1111.9	1111.2	1110.3
150°	1138.0	1134.8	1131.5	1130.5	1132.0	1133.4	1134.9	1136.3	1134.9	1133.4	1132.0
152.5°	1156.8	1153.7	1150.5	1149.8	1151.4	1153.0	1154.6	1156.2	1154.6	1153.0	1151.4
155°	1183.1	1180.5	1178.1	1177.8	1179.6	1181.4	1183.4	1185.2	1183.4	1181.4	1179.6
157.5°	1205.2	1203.5	1201.7	1201.6	1203.2	1204.8	1206.3	1207.8	1206.3	1204.8	1203.2
160°	1218.7	1217.4	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1	1219.9	1218.7	1217.4
162.5°	1230.0	1229.0	1227.9	1228.0	1229.2	1230.5	1231.7	1232.9	1231.7	1230.5	1229.2
165°	1244.8	1244.2	1243.5	1243.9	1245.1	1246.4	1247.6	1248.8	1247.6	1246.4	1245.1
167.5°	1256.5	1256.0	1255.4	1255.7	1256.9	1258.2	1259.4	1260.6	1259.4	1258.2	1256.9
170°	1262.7	1262.3	1261.9	1262.3	1263.5	1264.8	1266.0	1267.3	1266.0	1264.8	1263.5
172.5°	1267.2	1266.8	1266.4	1266.8	1268.0	1269.2	1270.4	1271.6	1270.4	1269.2	1268.0
175°	1271.9	1271.5	1271.1	1271.6	1273.0	1274.6	1276.0	1277.4	1276.0	1274.6	1273.0
177.5°	1273.5	1273.4	1273.2	1273.7	1274.9	1276.1	1277.2	1278.3	1277.2	1276.1	1274.9
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331267-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	589.1	587.9	584.1	582.1	578.8	575.6	573.6	574.5	575.2	574.9	574.3
5°	572.1	567.7	561.1	555.4	551.3	543.7	540.5	538.9	537.5	535.9	534.3
7.5°	552.0	545.1	535.6	527.5	519.8	510.3	504.9	501.8	498.5	494.8	491.6
10°	537.8	528.1	518.0	506.5	497.4	488.9	481.3	476.3	471.6	467.3	464.1
12.5°	522.7	511.6	499.1	483.4	473.3	461.1	460.0	451.1	443.9	441.2	437.5
15°	498.8	483.1	467.3	448.7	440.7	429.7	422.8	415.9	409.7	405.4	404.2
17.5°	471.5	451.3	435.6	422.2	409.1	397.8	391.4	386.0	380.8	375.1	374.3
20°	450.8	433.3	416.2	404.5	390.9	379.4	371.6	366.2	361.7	358.3	355.4
22.5°	431.1	412.0	396.3	383.5	370.2	360.9	354.8	349.4	345.8	342.0	339.2
25°	399.6	384.8	367.5	353.0	342.0	336.1	331.0	326.5	324.2	321.6	318.4
27.5°	372.0	355.5	339.4	328.2	318.5	313.3	309.6	306.5	304.4	302.9	301.0
30°	352.6	335.9	323.3	312.3	304.2	298.9	296.6	294.8	292.3	291.3	290.4
32.5°	333.9	318.8	308.0	298.4	290.8	287.3	285.3	283.6	281.7	280.7	278.8
35°	307.4	294.8	284.3	278.9	272.8	269.7	268.2	265.9	264.1	263.2	262.9
37.5°	282.5	271.6	264.6	257.8	255.2	253.4	251.2	249.6	249.0	248.9	248.6
40°	266.3	257.4	251.2	245.7	244.6	241.8	239.9	238.6	238.6	238.8	238.6
42.5°	251.7	243.6	238.1	233.4	232.1	230.5	228.5	228.5	228.8	229.6	228.8
45°	229.4	223.7	219.7	217.5	215.0	213.4	213.1	213.8	214.0	214.3	215.0
47.5°	208.9	205.1	201.6	199.0	197.9	197.7	197.4	198.6	199.8	200.2	201.2
50°	196.8	192.5	189.5	187.8	186.9	186.5	186.9	188.3	189.2	190.4	191.1
52.5°	183.3	180.2	178.1	176.8	176.5	176.8	176.8	178.4	179.9	180.4	180.7
55°	164.5	162.2	161.8	159.7	160.6	160.4	161.5	162.4	163.8	165.2	165.4
57.5°	145.7	143.9	142.7	142.9	143.2	144.2	145.1	146.7	148.1	149.7	149.8
60°	133.3	132.4	131.7	131.7	132.1	133.5	134.6	136.2	137.1	138.1	138.8
62.5°	121.9	121.0	120.3	120.7	121.9	122.7	124.0	124.9	125.8	126.7	127.0
65°	103.9	103.5	104.1	104.6	104.8	105.9	107.6	108.3	109.2	109.7	111.3
67.5°	87.4	87.5	87.4	88.0	89.4	89.6	91.1	92.7	92.9	93.8	94.8
70°	76.1	76.6	77.1	77.6	78.7	79.2	80.3	81.0	81.9	82.6	83.3
72.5°	65.8	65.9	66.4	66.3	67.4	68.3	69.3	70.0	70.9	71.8	72.4
75°	50.7	50.7	51.2	51.4	52.5	53.7	53.4	53.9	54.8	55.7	56.2
77.5°	37.1	36.6	37.1	37.3	37.7	38.6	38.8	39.4	40.5	40.2	40.7
80°	28.2	27.6	28.2	28.5	28.5	29.6	29.6	30.1	30.7	30.1	30.7
82.5°	20.1	19.8	20.3	20.4	20.7	20.8	21.1	21.2	21.9	21.6	21.9
85°	10.1	9.9	10.1	9.9	10.1	10.3	10.3	10.1	10.1	10.5	9.9
87.5°	5.2	5.4	5.5	5.8	6.0	6.1	6.1	6.3	6.5	6.4	6.5
90°	9.9	11.9	13.5	15.1	16.8	18.5	19.5	20.5	21.5	22.5	23.2
92.5°	17.8	18.1	19.0	19.8	20.6	21.4	21.9	22.4	23.0	23.5	23.9
95°	32.9	30.2	31.7	33.1	34.5	36.0	37.0	38.0	39.1	40.1	40.5
97.5°	42.7	34.8	38.2	41.5	44.8	48.2	49.0	49.8	50.6	51.4	51.9
100°	50.9	38.7	42.1	45.6	49.1	52.6	54.2	55.8	57.5	59.2	60.2
102.5°	188.1	170.7	141.5	112.3	83.2	54.0	56.1	58.3	60.5	62.6	63.9
105°	305.0	280.0	224.1	168.1	112.2	56.2	58.5	60.8	63.0	65.2	66.9
107.5°	378.3	347.2	280.0	213.0	145.8	78.8	76.4	74.1	71.9	69.6	68.9
110°	425.8	398.3	339.1	279.8	220.7	161.4	140.9	120.4	99.9	79.4	69.6



TEST NUMBER: P331267-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	471.0	465.6	451.0	436.4	421.7	407.1	332.3	257.6	182.8	108.1	71.0
115°	544.2	548.6	553.7	558.9	563.9	569.1	474.1	379.3	284.4	189.5	134.6
117.5°	612.5	616.2	619.8	623.3	626.8	630.3	607.3	584.4	561.5	538.5	502.7
120°	657.9	661.3	665.0	668.6	672.4	676.0	678.5	681.0	683.5	685.9	673.3
122.5°	699.8	703.5	707.5	711.6	715.6	719.6	721.0	722.6	724.0	725.5	723.6
125°	760.5	763.8	767.7	771.5	775.5	779.3	780.8	782.2	783.7	785.1	786.1
127.5°	818.6	821.5	824.5	827.4	830.3	833.2	835.3	837.4	839.5	841.6	842.6
130°	856.1	858.9	861.1	863.3	865.7	867.9	870.1	872.4	874.6	876.9	878.0
132.5°	891.0	893.5	895.9	898.1	900.3	902.5	904.5	906.5	908.4	910.3	911.1
135°	941.0	943.5	945.3	947.3	949.1	950.9	952.9	955.0	957.0	959.1	959.9
137.5°	985.5	987.7	989.8	991.9	994.0	996.1	998.0	1000.1	1002.1	1004.1	1004.8
140°	1014.6	1016.6	1018.9	1021.1	1023.4	1025.6	1027.4	1029.3	1031.2	1033.0	1033.4
142.5°	1040.6	1042.6	1045.1	1047.7	1050.4	1052.9	1054.6	1056.2	1057.9	1059.7	1060.0
145°	1075.5	1077.1	1080.7	1084.1	1087.6	1091.1	1092.5	1094.0	1095.4	1096.8	1097.0
147.5°	1109.5	1110.9	1114.3	1117.8	1121.3	1124.7	1125.7	1126.8	1127.8	1128.9	1129.0
150°	1130.5	1131.5	1134.8	1138.0	1141.3	1144.6	1145.8	1147.0	1148.3	1149.5	1149.6
152.5°	1149.8	1150.5	1153.7	1156.8	1159.9	1163.1	1164.3	1165.5	1166.7	1167.9	1167.9
155°	1177.8	1178.1	1180.5	1183.1	1185.5	1187.9	1189.1	1190.4	1191.6	1192.9	1192.7
157.5°	1201.6	1201.7	1203.5	1205.2	1206.9	1208.6	1210.0	1211.3	1212.7	1214.2	1214.1
160°	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1	1222.3	1223.6	1224.9	1226.1	1226.0
162.5°	1228.0	1227.9	1229.0	1230.0	1231.1	1232.2	1233.6	1235.0	1236.4	1237.8	1237.6
165°	1243.9	1243.5	1244.2	1244.8	1245.5	1246.1	1247.5	1248.9	1250.3	1251.7	1251.7
167.5°	1255.7	1255.4	1256.0	1256.5	1257.1	1257.7	1259.1	1260.5	1261.9	1263.4	1263.1
170°	1262.3	1261.9	1262.3	1262.7	1263.1	1263.5	1265.0	1266.5	1267.9	1269.3	1269.1
172.5°	1266.8	1266.4	1266.8	1267.2	1267.6	1268.0	1269.4	1270.8	1272.3	1273.7	1273.5
175°	1271.6	1271.1	1271.5	1271.9	1272.3	1272.7	1274.2	1275.7	1277.1	1278.5	1278.2
177.5°	1273.7	1273.2	1273.4	1273.5	1273.7	1273.8	1275.1	1276.2	1277.4	1278.5	1278.3
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331267-840

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	572.5	572.1	572.1	570.5	572.1	572.1	572.5	574.3	574.9	575.2	574.5
5°	531.1	530.4	529.3	530.4	529.3	530.4	531.1	534.3	535.9	537.5	538.9
7.5°	490.1	487.4	487.0	484.2	487.0	487.4	490.1	491.6	494.8	498.5	501.8
10°	460.2	458.4	458.1	453.7	458.1	458.4	460.2	464.1	467.3	471.6	476.3
12.5°	437.5	433.0	433.9	431.4	433.9	433.0	437.5	437.5	441.2	443.9	451.1
15°	398.0	398.0	397.1	393.2	397.1	398.0	398.0	404.2	405.4	409.7	415.9
17.5°	369.7	369.2	367.1	368.2	367.1	369.2	369.7	374.3	375.1	380.8	386.0
20°	352.8	351.4	348.7	348.7	348.7	351.4	352.8	355.4	358.3	361.7	366.2
22.5°	336.9	336.8	333.9	334.8	333.9	336.8	336.9	339.2	342.0	345.8	349.4
25°	318.2	316.4	315.0	315.7	315.0	316.4	318.2	318.4	321.6	324.2	326.5
27.5°	300.4	299.4	299.3	297.5	299.3	299.4	300.4	301.0	302.9	304.4	306.5
30°	290.2	287.9	288.3	287.2	288.3	287.9	290.2	290.4	291.3	292.3	294.8
32.5°	278.4	277.6	277.2	276.2	277.2	277.6	278.4	278.8	280.7	281.7	283.6
35°	262.5	262.7	261.6	262.0	261.6	262.7	262.5	262.9	263.2	264.1	265.9
37.5°	248.4	249.1	248.6	248.7	248.6	249.1	248.4	248.6	248.9	249.0	249.6
40°	239.2	239.2	239.2	239.9	239.2	239.2	239.2	238.6	238.8	238.6	238.6
42.5°	230.5	230.0	229.7	229.6	229.7	230.0	230.5	228.8	229.6	228.8	228.5
45°	215.4	216.1	216.3	215.2	216.3	216.1	215.4	215.0	214.3	214.0	213.8
47.5°	201.8	201.9	201.8	202.8	201.8	201.9	201.8	201.2	200.2	199.8	198.6
50°	192.3	191.8	192.3	191.8	192.3	191.8	192.3	191.1	190.4	189.2	188.3
52.5°	182.2	182.3	182.0	181.9	182.0	182.3	182.2	180.7	180.4	179.9	178.4
55°	166.3	166.7	166.5	166.5	166.5	166.7	166.3	165.4	165.2	163.8	162.4
57.5°	150.0	150.4	150.7	149.7	150.7	150.4	150.0	149.8	149.7	148.1	146.7
60°	138.6	139.7	139.5	139.1	139.5	139.7	138.6	138.8	138.1	137.1	136.2
62.5°	128.1	128.6	128.5	128.4	128.5	128.6	128.1	127.0	126.7	125.8	124.9
65°	112.0	112.4	111.7	112.4	111.7	112.4	112.0	111.3	109.7	109.2	108.3
67.5°	94.5	94.7	95.2	95.5	95.2	94.7	94.5	94.8	93.8	92.9	92.7
70°	83.7	83.5	84.2	84.9	84.2	83.5	83.7	83.3	82.6	81.9	81.0
72.5°	72.3	72.8	72.6	73.1	72.6	72.8	72.3	72.4	71.8	70.9	70.0
75°	55.7	56.5	56.2	56.9	56.2	56.5	55.7	56.2	55.7	54.8	53.9
77.5°	40.3	40.4	40.3	40.7	40.3	40.4	40.3	40.7	40.2	40.5	39.4
80°	30.7	30.3	29.8	30.7	29.8	30.3	30.7	30.7	30.1	30.7	30.1
82.5°	21.4	21.6	21.2	21.2	21.2	21.6	21.4	21.9	21.6	21.9	21.2
85°	9.9	9.6	9.2	9.2	9.2	9.6	9.9	9.9	10.5	10.1	10.1
87.5°	6.6	6.5	6.6	6.5	6.6	6.5	6.6	6.5	6.4	6.5	6.3
90°	23.6	24.0	24.5	24.9	24.5	24.0	23.6	23.2	22.5	21.5	20.5
92.5°	24.1	24.4	24.6	24.9	24.6	24.4	24.1	23.9	23.5	23.0	22.4
95°	40.3	40.1	39.9	39.7	39.9	40.1	40.3	40.5	40.1	39.1	38.0
97.5°	52.2	52.4	52.7	52.9	52.7	52.4	52.2	51.9	51.4	50.6	49.8
100°	60.6	61.0	61.4	61.8	61.4	61.0	60.6	60.2	59.2	57.5	55.8
102.5°	64.5	65.0	65.6	66.2	65.6	65.0	64.5	63.9	62.6	60.5	58.3
105°	67.7	68.5	69.3	70.1	69.3	68.5	67.7	66.9	65.2	63.0	60.8
107.5°	69.7	70.5	71.3	72.1	71.3	70.5	69.7	68.9	69.6	71.9	74.1
110°	70.4	71.2	72.0	72.9	72.0	71.2	70.4	69.6	79.4	99.9	120.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	71.6	72.3	72.9	73.6	72.9	72.3	71.6	71.0	108.1	182.8	257.6
115°	119.9	105.1	90.4	75.6	90.4	105.1	119.9	134.6	189.5	284.4	379.3
117.5°	454.2	405.8	357.3	308.8	357.3	405.8	454.2	502.7	538.5	561.5	584.4
120°	645.6	617.9	590.3	562.6	590.3	617.9	645.6	673.3	685.9	683.5	681.0
122.5°	718.2	712.8	707.4	702.1	707.4	712.8	718.2	723.6	725.5	724.0	722.6
125°	786.7	787.3	788.0	788.6	788.0	787.3	786.7	786.1	785.1	783.7	782.2
127.5°	842.8	842.9	843.0	843.1	843.0	842.9	842.8	842.6	841.6	839.5	837.4
130°	877.8	877.5	877.3	877.1	877.3	877.5	877.8	878.0	876.9	874.6	872.4
132.5°	910.9	910.7	910.5	910.3	910.5	910.7	910.9	911.1	910.3	908.4	906.5
135°	959.5	959.1	958.7	958.3	958.7	959.1	959.5	959.9	959.1	957.0	955.0
137.5°	1004.1	1003.4	1002.7	1002.0	1002.7	1003.4	1004.1	1004.8	1004.1	1002.1	1000.1
140°	1032.4	1031.4	1030.4	1029.3	1030.4	1031.4	1032.4	1033.4	1033.0	1031.2	1029.3
142.5°	1058.9	1057.9	1056.9	1055.8	1056.9	1057.9	1058.9	1060.0	1059.7	1057.9	1056.2
145°	1096.0	1095.0	1094.0	1093.0	1094.0	1095.0	1096.0	1097.0	1096.8	1095.4	1094.0
147.5°	1128.1	1127.3	1126.4	1125.6	1126.4	1127.3	1128.1	1129.0	1128.9	1127.8	1126.8
150°	1148.6	1147.5	1146.5	1145.5	1146.5	1147.5	1148.6	1149.6	1149.5	1148.3	1147.0
152.5°	1166.5	1165.2	1163.9	1162.5	1163.9	1165.2	1166.5	1167.9	1167.9	1166.7	1165.5
155°	1191.0	1189.3	1187.7	1186.1	1187.7	1189.3	1191.0	1192.7	1192.9	1191.6	1190.4
157.5°	1212.4	1210.8	1209.2	1207.7	1209.2	1210.8	1212.4	1214.1	1214.2	1212.7	1211.3
160°	1224.5	1223.0	1221.6	1220.2	1221.6	1223.0	1224.5	1226.0	1226.1	1224.9	1223.6
162.5°	1235.9	1234.1	1232.3	1230.5	1232.3	1234.1	1235.9	1237.6	1237.8	1236.4	1235.0
165°	1250.3	1248.9	1247.5	1246.1	1247.5	1248.9	1250.3	1251.7	1251.7	1250.3	1248.9
167.5°	1261.3	1259.5	1257.7	1255.8	1257.7	1259.5	1261.3	1263.1	1263.4	1261.9	1260.5
170°	1267.3	1265.4	1263.5	1261.7	1263.5	1265.4	1267.3	1269.1	1269.3	1267.9	1266.5
172.5°	1271.6	1269.8	1268.0	1266.2	1268.0	1269.8	1271.6	1273.5	1273.7	1272.3	1270.8
175°	1276.2	1274.1	1272.0	1270.0	1272.0	1274.1	1276.2	1278.2	1278.5	1277.1	1275.7
177.5°	1276.9	1275.4	1273.8	1272.4	1273.8	1275.4	1276.9	1278.3	1278.5	1277.4	1276.2
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331267-840

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	573.6	575.6	578.8	582.1	584.1	587.9	589.1	590.9	592.5	596.3	600.4
5°	540.5	543.7	551.3	555.4	561.1	567.7	572.1	576.7	581.8	590.5	598.5
7.5°	504.9	510.3	519.8	527.5	535.6	545.1	552.0	561.1	568.7	581.0	592.7
10°	481.3	488.9	497.4	506.5	518.0	528.1	537.8	549.2	558.4	573.1	586.8
12.5°	460.0	461.1	473.3	483.4	499.1	511.6	522.7	537.5	546.4	563.9	578.3
15°	422.8	429.7	440.7	448.7	467.3	483.1	498.8	514.1	524.4	546.0	565.0
17.5°	391.4	397.8	409.1	422.2	435.6	451.3	471.5	487.8	501.8	526.4	549.0
20°	371.6	379.4	390.9	404.5	416.2	433.3	450.8	469.4	484.5	512.3	538.7
22.5°	354.8	360.9	370.2	383.5	396.3	412.0	431.1	451.4	467.3	497.3	523.9
25°	331.0	336.1	342.0	353.0	367.5	384.8	399.6	421.9	445.0	473.0	505.3
27.5°	309.6	313.3	318.5	328.2	339.4	355.5	372.0	393.1	416.5	446.9	481.0
30°	296.6	298.9	304.2	312.3	323.3	335.9	352.6	372.7	396.7	427.4	461.3
32.5°	285.3	287.3	290.8	298.4	308.0	318.8	333.9	354.1	376.8	407.0	444.6
35°	268.2	269.7	272.8	278.9	284.3	294.8	307.4	325.8	347.1	376.0	415.0
37.5°	251.2	253.4	255.2	257.8	264.6	271.6	282.5	298.0	318.9	348.1	385.3
40°	239.9	241.8	244.6	245.7	251.2	257.4	266.3	280.5	301.6	328.3	364.6
42.5°	228.5	230.5	232.1	233.4	238.1	243.6	251.7	263.9	282.6	308.4	344.4
45°	213.1	213.4	215.0	217.5	219.7	223.7	229.4	239.9	254.4	278.7	311.3
47.5°	197.4	197.7	197.9	199.0	201.6	205.1	208.9	217.5	230.5	249.8	281.6
50°	186.9	186.5	186.9	187.8	189.5	192.5	196.8	203.0	213.6	231.7	260.8
52.5°	176.8	176.8	176.5	176.8	178.1	180.2	183.3	188.5	197.9	214.6	240.2
55°	161.5	160.4	160.6	159.7	161.8	162.2	164.5	168.8	177.1	188.5	212.7
57.5°	145.1	144.2	143.2	142.9	142.7	143.9	145.7	149.2	155.5	165.6	185.1
60°	134.6	133.5	132.1	131.7	131.7	132.4	133.3	135.8	141.8	150.7	166.7
62.5°	124.0	122.7	121.9	120.7	120.3	121.0	121.9	123.7	128.1	136.4	150.3
65°	107.6	105.9	104.8	104.6	104.1	103.5	103.9	105.7	109.2	115.8	126.8
67.5°	91.1	89.6	89.4	88.0	87.4	87.5	87.4	88.9	91.0	96.7	104.9
70°	80.3	79.2	78.7	77.6	77.1	76.6	76.1	77.6	79.6	84.4	91.5
72.5°	69.3	68.3	67.4	66.3	66.4	65.9	65.8	66.8	68.4	72.8	78.4
75°	53.4	53.7	52.5	51.4	51.2	50.7	50.7	51.4	52.1	55.5	59.9
77.5°	38.8	38.6	37.7	37.3	37.1	36.6	37.1	37.5	37.9	40.2	43.3
80°	29.6	29.6	28.5	28.5	28.2	27.6	28.2	27.8	28.7	31.0	33.2
82.5°	21.1	20.8	20.7	20.4	20.3	19.8	20.1	20.6	21.0	22.5	23.9
85°	10.3	10.3	10.1	9.9	10.1	9.9	10.1	10.3	10.5	11.2	12.4
87.5°	6.1	6.1	6.0	5.8	5.5	5.4	5.2	4.8	4.7	4.4	4.2
90°	19.5	18.5	16.8	15.1	13.5	11.9	9.9	7.7	5.5	3.1	0.9
92.5°	21.9	21.4	20.6	19.8	19.0	18.1	17.8	18.0	18.2	18.4	18.6
95°	37.0	36.0	34.5	33.1	31.7	30.2	32.9	39.7	46.5	53.2	60.0
97.5°	49.0	48.2	44.8	41.5	38.2	34.8	42.7	61.8	80.9	99.9	119.0
100°	54.2	52.6	49.1	45.6	42.1	38.7	50.9	79.0	107.0	135.1	163.3
102.5°	56.1	54.0	83.2	112.3	141.5	170.7	188.1	194.1	200.1	206.0	212.0
105°	58.5	56.2	112.2	168.1	224.1	280.0	305.0	298.8	292.7	286.5	280.3
107.5°	76.4	78.8	145.8	213.0	280.0	347.2	378.3	373.2	368.3	363.3	358.4
110°	140.9	161.4	220.7	279.8	339.1	398.3	425.8	421.5	417.2	412.9	408.6



TEST NUMBER: P331267-840

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	332.3	407.1	421.7	436.4	451.0	465.6	471.0	467.3	463.4	459.6	455.8
115°	474.1	569.1	563.9	558.9	553.7	548.6	544.2	540.8	537.2	533.8	530.3
117.5°	607.3	630.3	626.8	623.3	619.8	616.2	612.5	608.6	604.7	600.8	596.9
120°	678.5	676.0	672.4	668.6	665.0	661.3	657.9	654.8	651.8	648.6	645.6
122.5°	721.0	719.6	715.6	711.6	707.5	703.5	699.8	696.6	693.4	690.1	686.9
125°	780.8	779.3	775.5	771.5	767.7	763.8	760.5	757.8	755.2	752.5	749.8
127.5°	835.3	833.2	830.3	827.4	824.5	821.5	818.6	815.7	812.7	809.8	806.8
130°	870.1	867.9	865.7	863.3	861.1	858.9	856.1	852.8	849.5	846.3	843.0
132.5°	904.5	902.5	900.3	898.1	895.9	893.5	891.0	888.3	885.4	882.6	879.9
135°	952.9	950.9	949.1	947.3	945.3	943.5	941.0	937.7	934.4	931.1	927.9
137.5°	998.0	996.1	994.0	991.9	989.8	987.7	985.5	983.2	981.0	978.7	976.3
140°	1027.4	1025.6	1023.4	1021.1	1018.9	1016.6	1014.6	1013.0	1011.4	1009.8	1008.0
142.5°	1054.6	1052.9	1050.4	1047.7	1045.1	1042.6	1040.6	1039.1	1037.6	1036.1	1034.6
145°	1092.5	1091.1	1087.6	1084.1	1080.7	1077.1	1075.5	1075.7	1075.9	1076.1	1076.3
147.5°	1125.7	1124.7	1121.3	1117.8	1114.3	1110.9	1109.5	1110.3	1111.2	1111.9	1112.7
150°	1145.8	1144.6	1141.3	1138.0	1134.8	1131.5	1130.5	1132.0	1133.4	1134.9	1136.3
152.5°	1164.3	1163.1	1159.9	1156.8	1153.7	1150.5	1149.8	1151.4	1153.0	1154.6	1156.2
155°	1189.1	1187.9	1185.5	1183.1	1180.5	1178.1	1177.8	1179.6	1181.4	1183.4	1185.2
157.5°	1210.0	1208.6	1206.9	1205.2	1203.5	1201.7	1201.6	1203.2	1204.8	1206.3	1207.8
160°	1222.3	1221.1	1219.9	1218.7	1217.4	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1
162.5°	1233.6	1232.2	1231.1	1230.0	1229.0	1227.9	1228.0	1229.2	1230.5	1231.7	1232.9
165°	1247.5	1246.1	1245.5	1244.8	1244.2	1243.5	1243.9	1245.1	1246.4	1247.6	1248.8
167.5°	1259.1	1257.7	1257.1	1256.5	1256.0	1255.4	1255.7	1256.9	1258.2	1259.4	1260.6
170°	1265.0	1263.5	1263.1	1262.7	1262.3	1261.9	1262.3	1263.5	1264.8	1266.0	1267.3
172.5°	1269.4	1268.0	1267.6	1267.2	1266.8	1266.4	1266.8	1268.0	1269.2	1270.4	1271.6
175°	1274.2	1272.7	1272.3	1271.9	1271.5	1271.1	1271.6	1273.0	1274.6	1276.0	1277.4
177.5°	1275.1	1273.8	1273.7	1273.5	1273.4	1273.2	1273.7	1274.9	1276.1	1277.2	1278.3
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



TEST NUMBER: P331267-840

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	600.1	601.0	603.9	606.8	610.2	611.1	612.5	611.3	610.9	614.3	616.9
5°	601.8	605.8	613.9	621.3	627.4	631.8	636.4	638.2	641.7	646.4	652.5
7.5°	599.8	607.8	620.5	631.2	642.8	651.2	657.7	663.4	670.1	679.2	689.2
10°	597.6	608.3	623.8	636.8	651.1	661.9	670.8	679.5	689.6	702.3	715.3
12.5°	593.6	606.3	625.6	641.1	659.3	669.9	682.0	700.7	711.7	729.2	747.6
15°	585.4	599.7	626.5	645.5	666.2	686.4	708.6	726.5	744.4	754.8	780.6
17.5°	573.4	594.2	624.0	646.2	672.5	704.2	729.2	749.5	770.1	786.9	799.9
20°	563.6	586.3	620.4	646.9	678.1	712.3	740.9	761.6	779.5	793.6	801.5
22.5°	551.4	580.0	613.0	644.2	684.0	717.8	747.9	764.2	779.1	786.0	789.1
25°	532.0	566.4	603.8	641.9	686.8	722.7	750.1	760.0	764.4	757.7	746.7
27.5°	511.1	549.5	593.2	637.5	685.1	719.5	739.2	737.7	730.3	708.7	691.6
30°	495.5	537.8	584.7	633.2	680.9	714.4	725.8	714.4	697.6	673.6	648.9
32.5°	479.2	522.9	575.7	626.9	673.2	702.7	705.1	685.4	659.4	632.1	601.5
35°	454.4	501.7	558.9	613.0	656.8	675.4	664.4	629.4	598.7	561.4	519.6
37.5°	426.5	478.7	535.9	592.6	632.3	637.1	609.8	573.1	529.7	485.7	436.6
40°	405.6	460.9	519.9	576.9	612.1	607.0	572.1	531.8	480.2	426.5	380.8
42.5°	386.9	442.1	502.2	558.3	586.3	572.5	531.8	482.2	426.8	376.2	334.4
45°	354.5	411.3	472.8	526.9	543.0	518.0	464.1	409.0	354.5	312.3	279.2
47.5°	323.0	379.2	440.1	487.7	493.3	459.7	400.8	344.2	297.2	262.9	239.5
50°	299.8	356.3	416.6	459.1	457.2	416.6	356.1	302.2	262.9	235.1	219.5
52.5°	279.1	332.4	390.3	429.0	419.2	375.0	317.1	269.2	237.0	215.3	201.2
55°	246.8	296.2	351.2	382.2	364.3	315.2	266.3	227.8	203.9	187.6	176.6
57.5°	214.8	261.1	308.2	327.3	307.5	262.2	221.5	193.5	175.5	163.5	156.3
60°	195.0	235.4	277.3	293.9	270.2	229.8	197.7	172.8	158.2	148.5	142.0
62.5°	175.2	211.4	251.0	259.9	238.3	204.2	175.7	154.9	143.1	134.3	128.3
65°	148.1	177.8	207.8	213.8	193.9	167.4	145.0	131.5	120.9	114.5	109.7
67.5°	121.6	145.3	166.6	171.4	153.9	135.6	119.4	107.6	100.5	95.1	91.0
70°	105.7	124.6	142.0	145.9	131.9	115.6	103.2	93.8	87.4	82.8	78.9
72.5°	89.1	104.7	119.3	121.9	110.5	98.0	87.9	80.4	74.7	71.8	68.1
75°	68.2	77.4	88.6	89.3	81.7	74.1	66.3	61.5	58.5	54.8	53.0
77.5°	48.1	55.2	61.7	62.9	58.5	53.3	49.0	45.1	42.6	40.9	39.2
80°	36.7	42.4	45.2	46.8	43.6	39.9	37.4	34.8	33.2	32.1	31.0
82.5°	26.3	29.8	32.3	33.6	31.8	29.6	27.2	25.7	24.4	23.5	23.1
85°	13.3	14.9	16.6	17.0	16.6	15.6	14.2	14.2	13.5	13.3	13.3
87.5°	5.3	6.4	6.9	7.9	7.9	8.2	8.6	8.7	8.8	8.9	8.9
90°	3.1	5.5	7.7	9.9	11.9	13.5	15.1	16.8	18.5	19.5	20.5
92.5°	18.4	18.2	18.0	17.8	18.1	19.0	19.8	20.6	21.4	21.9	22.4
95°	53.2	46.5	39.7	32.9	30.2	31.7	33.1	34.5	36.0	37.0	38.0
97.5°	99.9	80.9	61.8	42.7	34.8	38.2	41.5	44.8	48.2	49.0	49.8
100°	135.1	107.0	79.0	50.9	38.7	42.1	45.6	49.1	52.6	54.2	55.8
102.5°	206.0	200.1	194.1	188.1	170.7	141.5	112.3	83.2	54.0	56.1	58.3
105°	286.5	292.7	298.8	305.0	280.0	224.1	168.1	112.2	56.2	58.5	60.8
107.5°	363.3	368.3	373.2	378.3	347.2	280.0	213.0	145.8	78.8	76.4	74.1
110°	412.9	417.2	421.5	425.8	398.3	339.1	279.8	220.7	161.4	140.9	120.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	459.6	463.4	467.3	471.0	465.6	451.0	436.4	421.7	407.1	332.3	257.6
115°	533.8	537.2	540.8	544.2	548.6	553.7	558.9	563.9	569.1	474.1	379.3
117.5°	600.8	604.7	608.6	612.5	616.2	619.8	623.3	626.8	630.3	607.3	584.4
120°	648.6	651.8	654.8	657.9	661.3	665.0	668.6	672.4	676.0	678.5	681.0
122.5°	690.1	693.4	696.6	699.8	703.5	707.5	711.6	715.6	719.6	721.0	722.6
125°	752.5	755.2	757.8	760.5	763.8	767.7	771.5	775.5	779.3	780.8	782.2
127.5°	809.8	812.7	815.7	818.6	821.5	824.5	827.4	830.3	833.2	835.3	837.4
130°	846.3	849.5	852.8	856.1	858.9	861.1	863.3	865.7	867.9	870.1	872.4
132.5°	882.6	885.4	888.3	891.0	893.5	895.9	898.1	900.3	902.5	904.5	906.5
135°	931.1	934.4	937.7	941.0	943.5	945.3	947.3	949.1	950.9	952.9	955.0
137.5°	978.7	981.0	983.2	985.5	987.7	989.8	991.9	994.0	996.1	998.0	1000.1
140°	1009.8	1011.4	1013.0	1014.6	1016.6	1018.9	1021.1	1023.4	1025.6	1027.4	1029.3
142.5°	1036.1	1037.6	1039.1	1040.6	1042.6	1045.1	1047.7	1050.4	1052.9	1054.6	1056.2
145°	1076.1	1075.9	1075.7	1075.5	1077.1	1080.7	1084.1	1087.6	1091.1	1092.5	1094.0
147.5°	1111.9	1111.2	1110.3	1109.5	1110.9	1114.3	1117.8	1121.3	1124.7	1125.7	1126.8
150°	1134.9	1133.4	1132.0	1130.5	1131.5	1134.8	1138.0	1141.3	1144.6	1145.8	1147.0
152.5°	1154.6	1153.0	1151.4	1149.8	1150.5	1153.7	1156.8	1159.9	1163.1	1164.3	1165.5
155°	1183.4	1181.4	1179.6	1177.8	1178.1	1180.5	1183.1	1185.5	1187.9	1189.1	1190.4
157.5°	1206.3	1204.8	1203.2	1201.6	1201.7	1203.5	1205.2	1206.9	1208.6	1210.0	1211.3
160°	1219.9	1218.7	1217.4	1216.2	1216.2	1217.4	1218.7	1219.9	1221.1	1222.3	1223.6
162.5°	1231.7	1230.5	1229.2	1228.0	1227.9	1229.0	1230.0	1231.1	1232.2	1233.6	1235.0
165°	1247.6	1246.4	1245.1	1243.9	1243.5	1244.2	1244.8	1245.5	1246.1	1247.5	1248.9
167.5°	1259.4	1258.2	1256.9	1255.7	1255.4	1256.0	1256.5	1257.1	1257.7	1259.1	1260.5
170°	1266.0	1264.8	1263.5	1262.3	1261.9	1262.3	1262.7	1263.1	1263.5	1265.0	1266.5
172.5°	1270.4	1269.2	1268.0	1266.8	1266.4	1266.8	1267.2	1267.6	1268.0	1269.4	1270.8
175°	1276.0	1274.6	1273.0	1271.6	1271.1	1271.5	1271.9	1272.3	1272.7	1274.2	1275.7
177.5°	1277.2	1276.1	1274.9	1273.7	1273.2	1273.4	1273.5	1273.7	1273.8	1275.1	1276.2
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	619.1	621.7	621.7	622.1	625.0	624.6	624.4
5°	658.8	662.8	663.2	667.3	670.0	669.1	666.6
7.5°	696.3	703.6	709.1	712.2	715.8	718.0	717.0
10°	726.1	736.6	743.1	747.4	752.7	756.6	755.2
12.5°	753.1	765.6	774.5	781.9	782.5	787.6	784.2
15°	795.2	808.4	809.8	815.3	819.7	819.2	819.4
17.5°	809.0	813.2	814.2	814.3	814.4	812.7	809.2
20°	804.1	802.4	798.6	795.6	790.3	789.6	785.1
22.5°	780.5	775.5	765.7	759.2	751.0	748.9	747.6
25°	734.4	723.1	707.5	692.6	688.4	680.4	682.7
27.5°	670.9	653.4	636.4	624.4	613.4	601.4	604.8
30°	626.3	606.5	582.7	564.3	552.6	541.2	539.1
32.5°	573.1	544.1	517.6	501.4	483.4	476.2	468.3
35°	481.3	453.0	426.7	403.9	390.9	380.8	371.6
37.5°	398.8	366.3	345.0	326.6	317.1	311.3	312.9
40°	347.6	319.1	303.5	289.5	280.7	276.7	277.6
42.5°	306.1	284.8	272.0	262.4	256.2	253.9	253.4
45°	259.0	247.1	236.5	231.1	228.0	225.5	223.9
47.5°	226.9	217.1	211.2	207.9	205.3	202.8	202.7
50°	207.6	201.2	197.0	193.6	191.6	189.8	191.4
52.5°	192.9	187.0	182.9	179.9	179.0	177.4	177.3
55°	171.2	166.5	163.6	160.8	159.5	158.5	157.3
57.5°	151.3	146.9	144.2	142.5	139.9	139.0	138.6
60°	137.1	133.7	131.0	128.7	127.5	125.7	125.7
62.5°	124.1	120.7	118.2	116.4	114.5	113.8	114.0
65°	105.3	102.5	100.0	98.2	97.8	96.3	96.8
67.5°	88.0	86.1	83.4	82.4	81.6	80.9	80.3
70°	76.3	74.5	73.2	71.8	71.1	71.1	71.1
72.5°	66.7	64.4	63.6	61.9	62.3	61.6	60.8
75°	51.6	50.2	49.6	48.9	47.8	47.8	47.8
77.5°	38.0	37.6	36.8	36.1	35.7	35.5	35.6
80°	29.4	29.1	28.7	28.7	28.2	28.0	27.6
82.5°	22.6	22.0	21.7	21.5	21.4	21.4	21.3
85°	12.8	12.4	12.4	12.6	12.1	12.1	12.4
87.5°	9.3	9.5	9.4	9.5	9.8	9.7	9.8
90°	21.5	22.5	23.2	23.6	24.0	24.5	24.9
92.5°	23.0	23.5	23.9	24.1	24.4	24.6	24.9
95°	39.1	40.1	40.5	40.3	40.1	39.9	39.7
97.5°	50.6	51.4	51.9	52.2	52.4	52.7	52.9
100°	57.5	59.2	60.2	60.6	61.0	61.4	61.8
102.5°	60.5	62.6	63.9	64.5	65.0	65.6	66.2
105°	63.0	65.2	66.9	67.7	68.5	69.3	70.1
107.5°	71.9	69.6	68.9	69.7	70.5	71.3	72.1
110°	99.9	79.4	69.6	70.4	71.2	72.0	72.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	182.8	108.1	71.0	71.6	72.3	72.9	73.6
115°	284.4	189.5	134.6	119.9	105.1	90.4	75.6
117.5°	561.5	538.5	502.7	454.2	405.8	357.3	308.8
120°	683.5	685.9	673.3	645.6	617.9	590.3	562.6
122.5°	724.0	725.5	723.6	718.2	712.8	707.4	702.1
125°	783.7	785.1	786.1	786.7	787.3	788.0	788.6
127.5°	839.5	841.6	842.6	842.8	842.9	843.0	843.1
130°	874.6	876.9	878.0	877.8	877.5	877.3	877.1
132.5°	908.4	910.3	911.1	910.9	910.7	910.5	910.3
135°	957.0	959.1	959.9	959.5	959.1	958.7	958.3
137.5°	1002.1	1004.1	1004.8	1004.1	1003.4	1002.7	1002.0
140°	1031.2	1033.0	1033.4	1032.4	1031.4	1030.4	1029.3
142.5°	1057.9	1059.7	1060.0	1058.9	1057.9	1056.9	1055.8
145°	1095.4	1096.8	1097.0	1096.0	1095.0	1094.0	1093.0
147.5°	1127.8	1128.9	1129.0	1128.1	1127.3	1126.4	1125.6
150°	1148.3	1149.5	1149.6	1148.6	1147.5	1146.5	1145.5
152.5°	1166.7	1167.9	1167.9	1166.5	1165.2	1163.9	1162.5
155°	1191.6	1192.9	1192.7	1191.0	1189.3	1187.7	1186.1
157.5°	1212.7	1214.2	1214.1	1212.4	1210.8	1209.2	1207.7
160°	1224.9	1226.1	1226.0	1224.5	1223.0	1221.6	1220.2
162.5°	1236.4	1237.8	1237.6	1235.9	1234.1	1232.3	1230.5
165°	1250.3	1251.7	1251.7	1250.3	1248.9	1247.5	1246.1
167.5°	1261.9	1263.4	1263.1	1261.3	1259.5	1257.7	1255.8
170°	1267.9	1269.3	1269.1	1267.3	1265.4	1263.5	1261.7
172.5°	1272.3	1273.7	1273.5	1271.6	1269.8	1268.0	1266.2
175°	1277.1	1278.5	1278.2	1276.2	1274.1	1272.0	1270.0
177.5°	1277.4	1278.5	1278.3	1276.9	1275.4	1273.8	1272.4
180°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7

(END OF REPORT)