

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: P331322-830

Luminaire Tested: **SA2XXDIP-C485D1080U830-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331322-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C485D1080U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

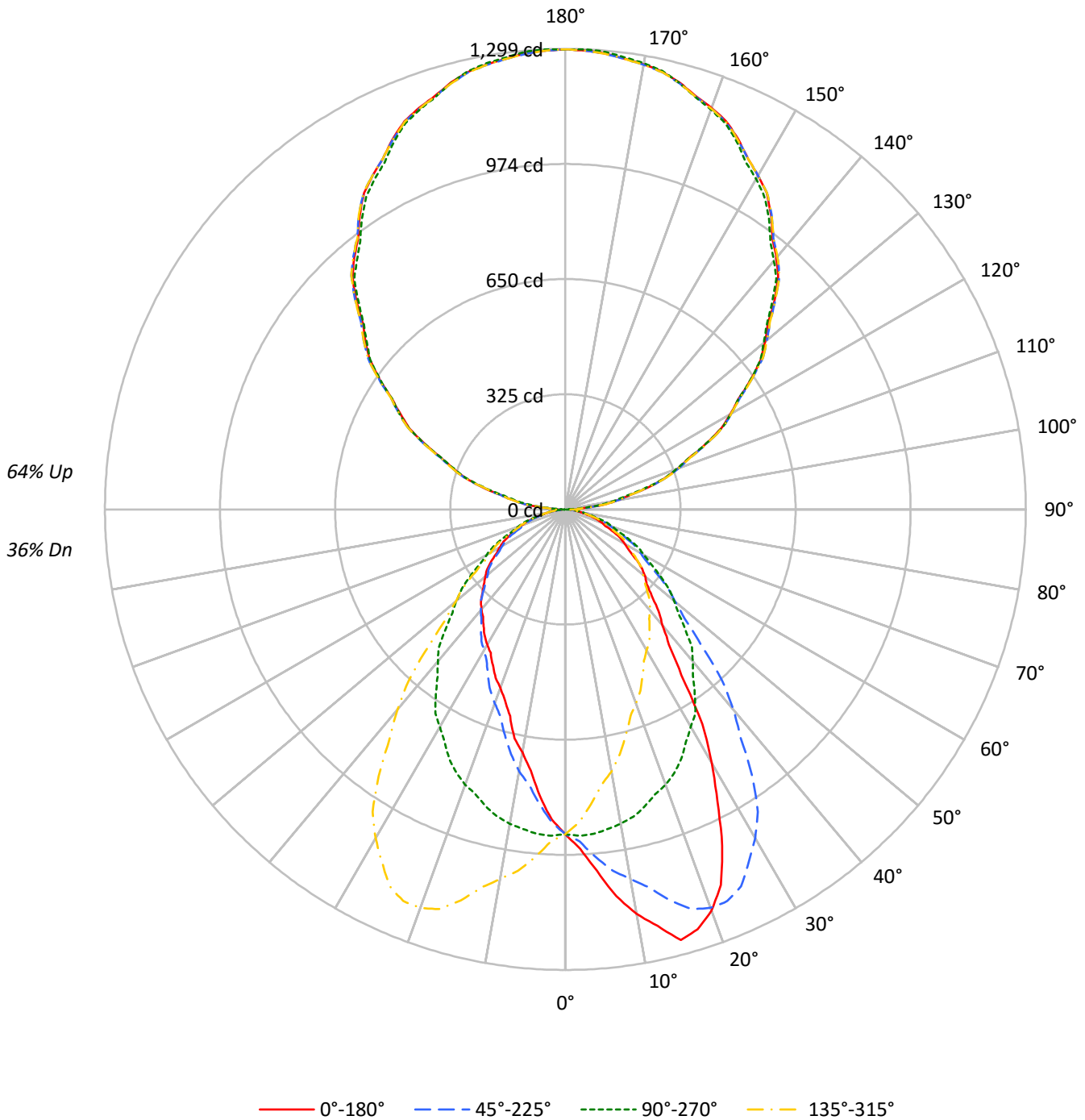
Lumens per Lamp: N/A
Luminaire Lumens: 5653.6 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43	36				
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31				
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26				
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23				
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	28	26	24	20				
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17				
6	62	50	42	37	56	46	39	34	38	33	29	30	26	24	23	20	19	15				
7	57	45	37	32	51	41	35	30	34	29	25	27	24	21	21	19	17	14				
8	53	41	34	28	48	38	31	26	31	26	23	25	21	19	19	17	15	13				
9	49	37	30	25	45	34	28	24	29	24	20	23	19	17	18	15	14	11				
10	46	34	27	23	42	32	25	21	26	22	18	21	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14788	14788	14788	14788
5°	16579	14885	13190	14885
10°	18998	14762	11416	14762
15°	21018	14492	10084	14492
20°	20697	14201	9194	14201
25°	18661	13814	8630	13814
30°	15422	13196	8216	13196
35°	11239	12552	7924	12552
40°	8977	11788	7761	11788
45°	7846	10908	7540	10908
50°	7375	10052	7392	10052
55°	6798	9185	7192	9185
60°	6229	8263	6888	8263
65°	5673	7435	6590	7435
70°	5150	6628	6151	6628
75°	4566	5733	5446	5733
80°	3924	4751	4379	4751
85°	3520	3520	2594	3520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.5
10°-20°	253.6	4.5
20°-30°	368.0	6.5
30°-40°	388.4	6.9
40°-50°	343.9	6.1
50°-60°	274.4	4.9
60°-70°	186.5	3.3
70°-80°	95.6	1.7
80°-90°	28.2	0.5
90°-100°	82.2	1.5
100°-110°	255.3	4.5
110°-120°	436.4	7.7
120°-130°	573.9	10.2
130°-140°	644.2	11.4
140°-150°	631.6	11.2
150°-160°	529.8	9.4
160°-170°	351.4	6.2
170°-180°	122.8	2.2
0°-30°	708.8	12.5
0°-40°	1097.2	19.4
0°-60°	1715.5	30.3
0°-90°	2025.9	35.8
90°-120°	774.0	13.7
90°-150°	2623.7	46.4
90°-180°	3628.0	64.2
0°-180°	5653.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	916	916	916	916	916	
5°	1023	918	814	918	1023	102
15°	1257	867	603	867	1257	347
25°	1048	775	484	775	1048	473
35°	570	637	402	637	570	371
45°	344	478	330	478	344	270
55°	242	326	256	326	242	217
65°	148	195	172	195	148	148
75°	73	92	87	92	73	78
85°	19	19	14	19	19	22
90°	37	1	37	1	37	17
95°	68	57	68	57	68	76
105°	243	235	243	235	243	256
115°	438	438	438	438	438	432
125°	639	637	639	637	639	570
135°	834	824	834	824	834	642
145°	1012	1001	1012	1001	1012	632
155°	1153	1144	1153	1144	1153	531
165°	1246	1245	1246	1245	1246	351
175°	1291	1295	1291	1295	1291	123
180°	1297	1297	1297	1297	1297	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	958.2	958.5	958.9	954.5	953.9	953.9	950.0	946.6	942.6	937.3	937.8
5°	1022.9	1026.8	1028.2	1024.0	1017.7	1016.9	1011.0	1001.1	991.9	984.6	979.3
7.5°	1100.2	1101.7	1098.3	1092.8	1088.1	1079.6	1068.5	1057.5	1042.3	1028.2	1017.9
10°	1158.8	1160.9	1154.9	1146.8	1140.1	1130.3	1114.1	1097.5	1077.5	1058.1	1042.6
12.5°	1203.2	1208.5	1200.8	1199.8	1188.3	1174.8	1155.5	1147.1	1118.9	1091.9	1075.3
15°	1257.4	1257.0	1257.7	1251.0	1242.6	1240.5	1220.0	1197.9	1158.1	1142.3	1114.7
17.5°	1241.7	1247.1	1249.5	1249.4	1249.2	1247.9	1241.3	1227.4	1207.4	1181.8	1150.1
20°	1204.6	1211.5	1212.7	1220.8	1225.3	1231.3	1233.8	1229.9	1217.6	1196.1	1168.7
22.5°	1147.1	1149.1	1152.4	1165.0	1174.9	1189.9	1197.7	1210.7	1206.0	1195.5	1172.6
25°	1047.5	1044.1	1056.3	1062.7	1085.5	1109.5	1126.7	1145.8	1162.6	1172.9	1166.2
27.5°	928.0	922.7	941.2	958.0	976.6	1002.5	1029.4	1061.1	1087.5	1120.6	1131.9
30°	827.2	830.4	848.0	865.9	894.1	930.7	960.9	995.8	1033.5	1070.4	1096.1
32.5°	718.5	730.7	741.8	769.3	794.1	834.9	879.3	922.8	969.9	1011.8	1051.6
35°	570.2	584.3	599.8	619.9	654.7	695.2	738.5	797.3	861.4	918.7	965.9
37.5°	479.9	477.8	486.6	501.1	529.3	562.0	611.8	670.0	745.4	812.8	879.3
40°	425.9	424.5	430.8	444.2	465.7	489.7	533.3	584.3	654.4	736.7	816.0
42.5°	388.7	389.6	393.1	402.6	417.3	437.0	469.7	513.1	577.2	654.8	739.9
45°	343.6	346.0	349.9	354.5	362.9	379.1	397.4	428.4	479.1	543.8	627.6
47.5°	311.0	311.1	315.0	319.1	324.0	333.2	348.2	367.6	403.3	456.1	528.1
50°	293.6	291.1	293.9	297.1	302.4	308.7	318.6	336.9	360.8	403.4	463.5
52.5°	272.2	272.2	274.8	276.0	280.7	287.0	296.1	308.7	330.4	363.7	413.2
55°	241.5	243.3	244.7	246.8	251.0	255.5	262.6	271.1	287.9	312.9	349.5
57.5°	212.6	213.2	214.6	218.6	221.3	225.5	232.1	239.9	250.8	269.4	296.9
60°	192.9	192.9	195.7	197.5	201.0	205.2	210.5	217.9	227.7	242.9	265.0
62.5°	174.8	174.6	175.7	178.6	181.3	185.2	190.5	196.8	206.0	219.5	237.7
65°	148.5	147.9	150.0	150.6	153.4	157.3	161.6	168.2	175.7	185.5	201.7
67.5°	123.2	124.0	125.2	126.5	128.1	132.1	135.0	139.7	145.9	154.1	165.1
70°	109.1	109.1	109.1	110.2	112.3	114.4	117.3	121.1	127.1	134.1	143.9
72.5°	93.3	94.4	95.6	95.0	97.6	98.9	102.3	104.4	110.2	114.7	123.4
75°	73.2	73.2	73.2	74.9	76.1	77.1	79.2	81.3	84.2	89.7	94.3
77.5°	54.7	54.5	54.9	55.2	56.4	57.7	58.2	60.2	62.8	65.4	69.3
80°	42.2	43.0	43.3	44.0	44.0	44.7	45.1	47.5	49.3	51.1	53.5
82.5°	32.7	32.8	32.9	33.0	33.3	33.7	34.6	35.4	36.0	37.5	39.4
85°	19.0	18.7	18.7	19.3	19.0	19.0	19.7	20.5	20.5	20.7	21.9
87.5°	14.8	14.7	15.0	14.6	14.6	14.9	15.0	14.8	15.2	15.6	14.8
90°	37.2	36.9	36.8	36.5	36.3	36.4	36.9	37.3	37.8	38.4	33.0
92.5°	35.4	35.4	35.3	35.3	35.3	35.3	35.1	35.0	34.9	34.8	33.6
95°	67.9	68.3	68.9	69.4	69.8	70.0	70.0	70.0	70.0	70.0	69.6
97.5°	117.6	117.6	117.7	117.7	117.8	117.8	117.8	117.8	117.8	117.8	116.9
100°	150.0	150.2	150.5	150.7	151.0	151.1	151.1	151.1	151.1	151.1	150.3
102.5°	186.8	187.0	187.3	187.5	187.8	187.8	187.6	187.4	187.2	187.0	186.1
105°	243.1	243.1	243.1	243.1	243.1	242.8	242.3	241.9	241.4	240.8	240.3
107.5°	296.1	297.2	298.3	299.4	300.5	301.0	300.8	300.6	300.4	300.2	300.2
110°	337.2	337.9	338.7	339.4	340.2	340.5	340.5	340.5	340.5	340.5	340.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	376.6	377.2	377.7	378.2	378.8	379.4	379.9	380.5	381.1	381.6	381.8
115°	437.9	438.7	439.4	440.2	440.8	441.3	441.6	441.9	442.1	442.3	442.8
117.5°	496.4	497.1	497.9	498.6	499.4	500.0	500.6	501.1	501.7	502.3	503.7
120°	537.5	538.3	539.0	539.8	540.5	540.8	540.8	540.8	540.8	540.8	542.8
122.5°	577.9	578.4	578.9	579.5	580.0	580.5	581.2	581.7	582.3	582.9	584.3
125°	639.4	639.6	639.9	640.1	640.4	640.8	641.6	642.3	643.0	643.8	644.5
127.5°	695.4	696.3	697.0	697.8	698.5	699.4	700.2	701.2	702.0	702.9	703.8
130°	735.7	736.7	737.6	738.7	739.6	740.4	740.8	741.3	741.8	742.3	742.8
132.5°	774.3	775.1	775.8	776.7	777.4	778.4	779.4	780.4	781.6	782.6	782.5
135°	834.2	835.0	835.8	836.4	837.2	837.6	837.9	838.2	838.4	838.7	838.2
137.5°	888.5	889.6	890.5	891.5	892.5	893.1	893.2	893.4	893.6	893.8	893.2
140°	926.2	927.2	928.2	929.2	930.1	930.6	930.6	930.6	930.6	930.6	929.4
142.5°	960.4	961.4	962.3	963.3	964.3	964.7	964.5	964.3	964.1	963.9	963.1
145°	1011.6	1012.6	1013.6	1014.6	1015.5	1015.9	1015.7	1015.4	1015.1	1014.9	1013.4
147.5°	1057.4	1058.3	1059.2	1060.2	1061.1	1061.3	1060.7	1060.3	1059.7	1059.1	1058.2
150°	1087.2	1087.9	1088.6	1089.4	1090.1	1090.1	1089.4	1088.6	1087.9	1087.2	1086.2
152.5°	1115.2	1116.2	1117.1	1117.9	1118.9	1118.9	1117.9	1117.1	1116.2	1115.2	1114.1
155°	1152.8	1153.6	1154.3	1155.1	1155.7	1155.6	1154.3	1153.1	1151.9	1150.7	1150.0
157.5°	1185.2	1186.5	1187.6	1188.7	1190.0	1189.7	1188.1	1186.4	1184.8	1183.1	1182.6
160°	1205.4	1206.4	1207.4	1208.3	1209.3	1209.1	1207.6	1206.2	1204.7	1203.2	1203.0
162.5°	1222.9	1224.1	1225.3	1226.4	1227.6	1227.4	1225.7	1224.1	1222.4	1220.8	1220.5
165°	1245.9	1247.2	1248.4	1249.6	1250.8	1250.6	1248.9	1247.2	1245.5	1243.8	1243.8
167.5°	1264.8	1266.0	1267.2	1268.6	1269.8	1269.6	1267.9	1266.2	1264.5	1262.8	1262.8
170°	1274.4	1275.8	1277.3	1278.7	1280.3	1280.1	1278.4	1276.7	1275.0	1273.3	1273.6
172.5°	1282.2	1283.7	1285.2	1286.7	1288.1	1288.0	1286.3	1284.6	1282.9	1281.2	1281.4
175°	1290.8	1292.3	1293.7	1295.2	1296.7	1296.6	1294.9	1293.2	1291.5	1289.7	1290.2
177.5°	1294.8	1295.9	1297.1	1298.3	1299.4	1299.4	1298.3	1297.1	1295.9	1294.8	1295.1
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	939.8	937.5	936.1	931.1	926.6	922.1	920.7	921.2	915.0	909.2	906.6
5°	976.5	969.4	962.7	953.2	942.0	929.6	923.3	918.4	906.1	892.7	885.0
7.5°	1009.3	999.2	986.3	968.5	952.1	932.6	920.3	909.5	891.4	872.5	861.0
10°	1029.3	1015.5	999.0	977.1	957.1	933.5	917.0	900.4	879.3	856.8	842.7
12.5°	1046.4	1027.9	1011.6	983.6	959.9	930.4	910.8	887.5	865.3	838.5	824.6
15°	1087.3	1053.2	1022.2	990.5	961.3	920.1	898.3	867.0	837.7	804.6	788.8
17.5°	1118.9	1080.5	1031.8	991.6	957.4	911.8	879.8	842.3	807.7	769.9	748.4
20°	1137.0	1093.0	1040.5	992.7	951.8	899.8	864.9	826.5	786.0	743.4	720.2
22.5°	1147.6	1101.5	1049.5	988.4	940.6	889.9	846.0	804.0	762.9	717.0	692.6
25°	1151.0	1108.8	1053.9	984.9	926.4	869.1	816.2	775.4	725.9	682.9	647.3
27.5°	1134.3	1104.0	1051.2	978.3	910.2	843.1	784.3	738.0	685.6	639.0	603.2
30°	1113.7	1096.1	1044.7	971.5	897.2	825.1	760.3	707.8	655.8	608.6	572.0
32.5°	1081.9	1078.1	1032.9	962.0	883.4	802.3	735.3	682.2	624.5	578.2	543.3
35°	1019.4	1036.3	1007.8	940.6	857.4	769.9	697.3	636.8	576.9	532.5	499.8
37.5°	935.7	977.6	970.2	909.2	822.4	734.5	654.4	591.2	534.1	489.4	457.2
40°	877.9	931.4	939.1	885.2	797.7	707.2	622.4	559.3	503.7	462.9	430.5
42.5°	816.0	878.4	899.8	856.6	770.6	678.4	593.6	528.4	473.3	433.6	404.9
45°	712.1	794.8	833.2	808.5	725.5	631.1	543.8	477.7	427.7	390.4	368.2
47.5°	615.0	705.4	757.1	748.3	675.2	581.8	495.6	432.1	383.4	353.6	333.8
50°	546.3	639.2	701.5	704.4	639.2	546.7	460.1	400.2	355.5	327.7	311.5
52.5°	486.6	575.3	643.3	658.2	599.0	510.0	428.2	368.7	329.3	303.8	289.3
55°	408.7	483.6	559.0	586.4	538.9	454.4	378.7	326.3	289.4	271.7	259.1
57.5°	339.8	402.3	471.8	502.2	472.9	400.6	329.6	284.1	254.1	238.7	228.9
60°	303.4	352.7	414.6	450.9	425.6	361.2	299.2	255.9	231.3	217.5	208.4
62.5°	269.7	313.3	365.6	398.8	385.0	324.2	268.8	230.5	209.3	196.4	189.8
65°	222.4	256.9	297.5	328.1	319.0	272.8	227.4	194.6	177.8	167.6	162.3
67.5°	183.1	208.1	236.2	263.0	255.6	222.9	186.5	161.0	148.4	139.6	136.5
70°	158.4	177.4	202.4	223.9	217.9	191.1	162.3	140.4	129.5	122.2	118.9
72.5°	134.8	150.3	169.5	187.0	182.9	160.7	136.7	120.2	111.8	105.0	102.4
75°	101.7	113.7	125.4	137.0	135.9	118.7	104.5	91.9	85.2	79.9	78.9
77.5°	75.1	81.8	89.7	96.6	94.7	84.8	73.8	66.5	61.6	58.1	57.5
80°	57.4	61.3	66.9	71.8	69.4	65.1	56.4	51.1	47.5	44.0	42.6
82.5°	41.6	45.5	48.8	51.6	49.7	45.7	40.2	36.7	34.6	32.1	31.6
85°	21.9	23.9	25.4	26.0	25.4	22.9	20.5	19.0	17.2	16.2	15.8
87.5°	13.9	12.9	11.9	11.6	10.2	9.5	7.8	6.4	6.7	7.0	7.1
90°	27.6	22.2	16.9	12.8	9.9	7.0	4.1	1.1	4.1	7.0	9.9
92.5°	32.3	31.0	29.8	28.1	25.9	23.8	21.6	19.5	21.6	23.8	25.9
95°	69.1	68.6	68.1	66.6	64.2	61.8	59.4	56.9	59.4	61.8	64.2
97.5°	115.9	115.0	114.1	112.5	110.5	108.3	106.1	104.1	106.1	108.3	110.5
100°	149.6	148.9	148.2	146.8	144.9	143.0	141.0	139.0	141.0	143.0	144.9
102.5°	185.1	184.3	183.3	182.1	180.5	179.0	177.4	175.9	177.4	179.0	180.5
105°	239.9	239.4	238.9	238.3	237.6	236.9	236.1	235.4	236.1	236.9	237.6
107.5°	300.2	300.2	300.2	299.6	298.6	297.6	296.4	295.4	296.4	297.6	298.6
110°	340.5	340.5	340.5	339.8	338.3	336.9	335.4	333.9	335.4	336.9	338.3



TEST NUMBER: P331322-830

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	382.0	382.2	382.5	381.8	380.3	378.9	377.4	376.0	377.4	378.9	380.3
115°	443.3	443.7	444.2	443.7	442.3	440.8	439.4	437.9	439.4	440.8	442.3
117.5°	505.0	506.4	507.7	507.5	505.5	503.6	501.6	499.6	501.6	503.6	505.5
120°	544.8	546.7	548.7	548.7	546.7	544.8	542.8	540.8	542.8	544.8	546.7
122.5°	585.6	587.0	588.3	587.9	585.5	583.2	580.9	578.5	580.9	583.2	585.5
125°	645.3	645.9	646.7	645.9	643.8	641.6	639.4	637.2	639.4	641.6	643.8
127.5°	704.6	705.5	706.4	705.4	702.7	699.9	697.1	694.4	697.1	699.9	702.7
130°	743.3	743.8	744.2	742.9	739.7	736.6	733.4	730.3	733.4	736.6	739.7
132.5°	782.4	782.3	782.2	780.9	778.3	775.7	773.2	770.5	773.2	775.7	778.3
135°	837.6	837.2	836.7	835.1	832.5	829.8	827.1	824.4	827.1	829.8	832.5
137.5°	892.6	891.9	891.3	889.9	887.7	885.5	883.4	881.1	883.4	885.5	887.7
140°	928.2	927.0	925.8	924.1	921.9	919.6	917.5	915.3	917.5	919.6	921.9
142.5°	962.2	961.4	960.5	959.0	956.9	954.7	952.5	950.4	952.5	954.7	956.9
145°	1012.0	1010.5	1009.1	1007.5	1005.8	1004.1	1002.4	1000.7	1002.4	1004.1	1005.8
147.5°	1057.2	1056.2	1055.3	1053.8	1051.7	1049.6	1047.6	1045.6	1047.6	1049.6	1051.7
150°	1085.2	1084.3	1083.3	1082.0	1080.6	1079.1	1077.7	1076.2	1077.7	1079.1	1080.6
152.5°	1112.9	1111.7	1110.5	1109.2	1107.8	1106.3	1104.8	1103.3	1104.8	1106.3	1107.8
155°	1149.2	1148.5	1147.7	1147.1	1146.3	1145.6	1144.8	1144.2	1144.8	1145.6	1146.3
157.5°	1182.2	1181.8	1181.3	1180.9	1180.3	1179.9	1179.4	1178.9	1179.4	1179.9	1180.3
160°	1202.8	1202.5	1202.2	1201.9	1201.4	1200.9	1200.4	1200.0	1200.4	1200.9	1201.4
162.5°	1220.2	1220.0	1219.7	1219.7	1219.5	1219.4	1219.3	1219.2	1219.3	1219.4	1219.5
165°	1243.8	1243.8	1243.8	1243.9	1244.1	1244.3	1244.6	1244.8	1244.6	1244.3	1244.1
167.5°	1262.9	1262.9	1263.0	1263.4	1264.1	1264.8	1265.6	1266.3	1265.6	1264.8	1264.1
170°	1273.8	1274.0	1274.3	1274.8	1275.4	1276.2	1277.0	1277.7	1277.0	1276.2	1275.4
172.5°	1281.7	1282.0	1282.1	1282.6	1283.4	1284.1	1284.9	1285.5	1284.9	1284.1	1283.4
175°	1290.7	1291.2	1291.7	1292.3	1293.0	1293.7	1294.5	1295.2	1294.5	1293.7	1293.0
177.5°	1295.5	1295.9	1296.3	1296.8	1297.4	1298.0	1298.5	1299.1	1298.5	1298.0	1297.4
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



TEST NUMBER: P331322-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	903.8	902.1	896.2	893.1	888.1	883.3	880.1	881.6	882.7	882.1	881.3
5°	877.9	871.2	861.0	852.2	845.8	834.2	829.3	826.9	824.7	822.3	819.8
7.5°	847.1	836.5	821.9	809.4	797.5	783.1	774.9	769.9	764.8	759.2	754.3
10°	825.1	810.3	794.8	777.2	763.2	750.1	738.5	730.8	723.7	717.0	712.1
12.5°	802.0	784.9	765.8	741.8	726.2	707.6	705.9	692.2	681.2	677.0	671.3
15°	765.3	741.3	717.0	688.5	676.2	659.3	648.8	638.2	628.7	622.0	620.2
17.5°	723.5	692.5	668.4	647.9	627.7	610.4	600.7	592.2	584.4	575.4	574.3
20°	691.6	665.0	638.6	620.6	599.8	582.2	570.2	561.8	555.1	549.8	545.3
22.5°	661.6	632.3	608.1	588.4	568.0	553.7	544.3	536.2	530.7	524.8	520.5
25°	613.2	590.3	563.9	541.8	524.8	515.7	507.9	500.9	497.4	493.5	488.6
27.5°	570.9	545.4	520.8	503.6	488.7	480.6	475.1	470.3	467.0	464.8	461.9
30°	541.0	515.3	496.0	479.1	466.7	458.6	455.2	452.3	448.5	447.0	445.6
32.5°	512.3	489.2	472.6	458.0	446.2	440.9	437.7	435.2	432.2	430.7	427.9
35°	471.6	452.3	436.1	428.0	418.5	414.0	411.5	407.9	405.2	403.8	403.4
37.5°	433.5	416.6	406.0	395.6	391.5	388.7	385.4	383.0	382.1	381.9	381.5
40°	408.7	394.9	385.4	377.0	375.2	371.0	368.2	366.1	366.1	366.5	366.1
42.5°	386.2	373.8	365.4	358.2	356.1	353.5	350.7	350.6	351.2	352.3	351.2
45°	352.0	343.2	337.2	333.7	329.8	327.3	327.0	328.1	328.4	328.8	329.8
47.5°	320.6	314.7	309.3	305.5	303.8	303.3	302.9	304.7	306.4	307.1	308.7
50°	302.0	295.3	290.8	288.3	286.9	286.2	286.9	289.0	290.4	292.2	293.2
52.5°	281.2	276.4	273.3	271.4	270.8	271.3	271.4	273.8	276.1	276.6	277.2
55°	252.4	248.8	248.2	245.0	246.4	246.0	247.8	249.2	251.3	253.4	253.8
57.5°	223.7	220.8	219.0	219.2	219.6	221.2	222.6	225.2	227.4	229.6	229.9
60°	204.5	203.1	202.1	202.1	202.7	204.9	206.6	209.1	210.5	211.9	212.9
62.5°	187.1	185.7	184.5	185.1	187.0	188.2	190.3	191.6	193.0	194.4	194.9
65°	159.5	158.7	159.9	160.5	160.9	162.6	165.1	166.2	167.6	168.2	170.7
67.5°	134.0	134.2	134.0	135.1	137.0	137.5	139.8	142.3	142.6	143.9	145.5
70°	116.9	117.5	118.3	118.9	120.7	121.4	123.2	124.2	125.6	126.7	127.8
72.5°	101.1	101.2	102.0	101.8	103.3	104.8	106.3	107.4	108.8	110.1	111.1
75°	77.8	77.8	78.5	78.9	80.6	82.4	82.0	82.8	84.2	85.6	86.2
77.5°	56.8	56.1	56.8	57.1	57.7	59.2	59.5	60.5	62.1	61.6	62.4
80°	43.3	42.2	43.3	43.6	43.6	45.4	45.4	46.1	47.1	46.1	47.1
82.5°	30.9	30.4	31.2	31.3	31.9	31.9	32.4	32.6	33.6	33.2	33.6
85°	15.5	15.2	15.5	15.2	15.5	15.8	15.8	15.5	15.5	16.2	15.2
87.5°	7.4	7.9	8.7	9.7	10.6	11.3	10.9	10.8	10.7	10.1	10.1
90°	12.8	16.9	22.2	27.6	33.0	38.4	37.8	37.3	36.9	36.4	36.3
92.5°	28.1	29.8	31.0	32.3	33.6	34.8	34.9	35.0	35.1	35.3	35.3
95°	66.6	68.1	68.6	69.1	69.6	70.0	70.0	70.0	70.0	70.0	69.8
97.5°	112.5	114.1	115.0	115.9	116.9	117.8	117.8	117.8	117.8	117.8	117.8
100°	146.8	148.2	148.9	149.6	150.3	151.1	151.1	151.1	151.1	151.1	151.0
102.5°	182.1	183.3	184.3	185.1	186.1	187.0	187.2	187.4	187.6	187.8	187.8
105°	238.3	238.9	239.4	239.9	240.3	240.8	241.4	241.9	242.3	242.8	243.1
107.5°	299.6	300.2	300.2	300.2	300.2	300.2	300.4	300.6	300.8	301.0	300.5
110°	339.8	340.5	340.5	340.5	340.5	340.5	340.5	340.5	340.5	340.5	340.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	381.8	382.5	382.2	382.0	381.8	381.6	381.1	380.5	379.9	379.4	378.8
115°	443.7	444.2	443.7	443.3	442.8	442.3	442.1	441.9	441.6	441.3	440.8
117.5°	507.5	507.7	506.4	505.0	503.7	502.3	501.7	501.1	500.6	500.0	499.4
120°	548.7	548.7	546.7	544.8	542.8	540.8	540.8	540.8	540.8	540.8	540.5
122.5°	587.9	588.3	587.0	585.6	584.3	582.9	582.3	581.7	581.2	580.5	580.0
125°	645.9	646.7	645.9	645.3	644.5	643.8	643.0	642.3	641.6	640.8	640.4
127.5°	705.4	706.4	705.5	704.6	703.8	702.9	702.0	701.2	700.2	699.4	698.5
130°	742.9	744.2	743.8	743.3	742.8	742.3	741.8	741.3	740.8	740.4	739.6
132.5°	780.9	782.2	782.3	782.4	782.5	782.6	781.6	780.4	779.4	778.4	777.4
135°	835.1	836.7	837.2	837.6	838.2	838.7	838.4	838.2	837.9	837.6	837.2
137.5°	889.9	891.3	891.9	892.6	893.2	893.8	893.6	893.4	893.2	893.1	892.5
140°	924.1	925.8	927.0	928.2	929.4	930.6	930.6	930.6	930.6	930.6	930.1
142.5°	959.0	960.5	961.4	962.2	963.1	963.9	964.1	964.3	964.5	964.7	964.3
145°	1007.5	1009.1	1010.5	1012.0	1013.4	1014.9	1015.1	1015.4	1015.7	1015.9	1015.5
147.5°	1053.8	1055.3	1056.2	1057.2	1058.2	1059.1	1059.7	1060.3	1060.7	1061.3	1061.1
150°	1082.0	1083.3	1084.3	1085.2	1086.2	1087.2	1087.9	1088.6	1089.4	1090.1	1090.1
152.5°	1109.2	1110.5	1111.7	1112.9	1114.1	1115.2	1116.2	1117.1	1117.9	1118.9	1118.9
155°	1147.1	1147.7	1148.5	1149.2	1150.0	1150.7	1151.9	1153.1	1154.3	1155.6	1155.7
157.5°	1180.9	1181.3	1181.8	1182.2	1182.6	1183.1	1184.8	1186.4	1188.1	1189.7	1190.0
160°	1201.9	1202.2	1202.5	1202.8	1203.0	1203.2	1204.7	1206.2	1207.6	1209.1	1209.3
162.5°	1219.7	1219.7	1220.0	1220.2	1220.5	1220.8	1222.4	1224.1	1225.7	1227.4	1227.6
165°	1243.9	1243.8	1243.8	1243.8	1243.8	1243.8	1245.5	1247.2	1248.9	1250.6	1250.8
167.5°	1263.4	1263.0	1262.9	1262.9	1262.8	1262.8	1264.5	1266.2	1267.9	1269.6	1269.8
170°	1274.8	1274.3	1274.0	1273.8	1273.6	1273.3	1275.0	1276.7	1278.4	1280.1	1280.3
172.5°	1282.6	1282.1	1282.0	1281.7	1281.4	1281.2	1282.9	1284.6	1286.3	1288.0	1288.1
175°	1292.3	1291.7	1291.2	1290.7	1290.2	1289.7	1291.5	1293.2	1294.9	1296.6	1296.7
177.5°	1296.8	1296.3	1295.9	1295.5	1295.1	1294.8	1295.9	1297.1	1298.3	1299.4	1299.4
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	878.4	877.9	877.9	875.3	877.9	877.9	878.4	881.3	882.1	882.7	881.6
5°	814.9	813.8	812.1	813.8	812.1	813.8	814.9	819.8	822.3	824.7	826.9
7.5°	752.1	747.8	747.2	743.0	747.2	747.8	752.1	754.3	759.2	764.8	769.9
10°	706.2	703.3	702.9	696.3	702.9	703.3	706.2	712.1	717.0	723.7	730.8
12.5°	671.2	664.4	665.8	661.9	665.8	664.4	671.2	671.3	677.0	681.2	692.2
15°	610.7	610.7	609.4	603.3	609.4	610.7	610.7	620.2	622.0	628.7	638.2
17.5°	567.3	566.6	563.2	564.9	563.2	566.6	567.3	574.3	575.4	584.4	592.2
20°	541.4	539.2	535.1	535.1	535.1	539.2	541.4	545.3	549.8	555.1	561.8
22.5°	516.9	516.7	512.3	513.7	512.3	516.7	516.9	520.5	524.8	530.7	536.2
25°	488.2	485.4	483.3	484.4	483.3	485.4	488.2	488.6	493.5	497.4	500.9
27.5°	461.1	459.5	459.4	456.5	459.4	459.5	461.1	461.9	464.8	467.0	470.3
30°	445.3	441.8	442.4	440.7	442.4	441.8	445.3	445.6	447.0	448.5	452.3
32.5°	427.3	426.0	425.3	423.8	425.3	426.0	427.3	427.9	430.7	432.2	435.2
35°	402.7	403.0	401.2	402.0	401.2	403.0	402.7	403.4	403.8	405.2	407.9
37.5°	381.3	382.4	381.5	381.7	381.5	382.4	381.3	381.5	381.9	382.1	383.0
40°	367.1	367.1	367.1	368.2	367.1	367.1	367.1	366.1	366.5	366.1	366.1
42.5°	353.6	353.1	352.5	352.4	352.5	353.1	353.6	351.2	352.3	351.2	350.6
45°	330.5	331.6	332.0	330.2	332.0	331.6	330.5	329.8	328.8	328.4	328.1
47.5°	309.6	309.7	309.6	311.1	309.6	309.7	309.6	308.7	307.1	306.4	304.7
50°	295.0	294.3	295.0	294.3	295.0	294.3	295.0	293.2	292.2	290.4	289.0
52.5°	279.5	279.7	279.2	279.1	279.2	279.7	279.5	277.2	276.6	276.1	273.8
55°	255.2	255.9	255.5	255.5	255.5	255.9	255.2	253.8	253.4	251.3	249.2
57.5°	230.1	230.7	231.2	229.6	231.2	230.7	230.1	229.9	229.6	227.4	225.2
60°	212.6	214.3	214.1	213.3	214.1	214.3	212.6	212.9	211.9	210.5	209.1
62.5°	196.5	197.2	197.1	197.0	197.1	197.2	196.5	194.9	194.4	193.0	191.6
65°	171.7	172.5	171.4	172.5	171.4	172.5	171.7	170.7	168.2	167.6	166.2
67.5°	145.1	145.3	146.1	146.6	146.1	145.3	145.1	145.5	143.9	142.6	142.3
70°	128.5	128.1	129.2	130.3	129.2	128.1	128.5	127.8	126.7	125.6	124.2
72.5°	111.0	111.8	111.4	112.3	111.4	111.8	111.0	111.1	110.1	108.8	107.4
75°	85.6	86.6	86.2	87.3	86.2	86.6	85.6	86.2	85.6	84.2	82.8
77.5°	61.8	61.9	61.8	62.4	61.8	61.9	61.8	62.4	61.6	62.1	60.5
80°	47.1	46.5	45.7	47.1	45.7	46.5	47.1	47.1	46.1	47.1	46.1
82.5°	32.8	33.3	32.5	32.5	32.5	33.3	32.8	33.6	33.2	33.6	32.6
85°	15.2	14.8	14.0	14.0	14.0	14.8	15.2	15.2	16.2	15.5	15.5
87.5°	10.1	9.9	9.9	9.7	9.9	9.9	10.1	10.1	10.1	10.7	10.8
90°	36.5	36.8	36.9	37.2	36.9	36.8	36.5	36.3	36.4	36.9	37.3
92.5°	35.3	35.3	35.4	35.4	35.4	35.3	35.3	35.3	35.3	35.1	35.0
95°	69.4	68.9	68.3	67.9	68.3	68.9	69.4	69.8	70.0	70.0	70.0
97.5°	117.7	117.7	117.6	117.6	117.6	117.7	117.7	117.8	117.8	117.8	117.8
100°	150.7	150.5	150.2	150.0	150.2	150.5	150.7	151.0	151.1	151.1	151.1
102.5°	187.5	187.3	187.0	186.8	187.0	187.3	187.5	187.8	187.8	187.6	187.4
105°	243.1	243.1	243.1	243.1	243.1	243.1	243.1	243.1	242.8	242.3	241.9
107.5°	299.4	298.3	297.2	296.1	297.2	298.3	299.4	300.5	301.0	300.8	300.6
110°	339.4	338.7	337.9	337.2	337.9	338.7	339.4	340.2	340.5	340.5	340.5



TEST NUMBER: P331322-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	378.2	377.7	377.2	376.6	377.2	377.7	378.2	378.8	379.4	379.9	380.5
115°	440.2	439.4	438.7	437.9	438.7	439.4	440.2	440.8	441.3	441.6	441.9
117.5°	498.6	497.9	497.1	496.4	497.1	497.9	498.6	499.4	500.0	500.6	501.1
120°	539.8	539.0	538.3	537.5	538.3	539.0	539.8	540.5	540.8	540.8	540.8
122.5°	579.5	578.9	578.4	577.9	578.4	578.9	579.5	580.0	580.5	581.2	581.7
125°	640.1	639.9	639.6	639.4	639.6	639.9	640.1	640.4	640.8	641.6	642.3
127.5°	697.8	697.0	696.3	695.4	696.3	697.0	697.8	698.5	699.4	700.2	701.2
130°	738.7	737.6	736.7	735.7	736.7	737.6	738.7	739.6	740.4	740.8	741.3
132.5°	776.7	775.8	775.1	774.3	775.1	775.8	776.7	777.4	778.4	779.4	780.4
135°	836.4	835.8	835.0	834.2	835.0	835.8	836.4	837.2	837.6	837.9	838.2
137.5°	891.5	890.5	889.6	888.5	889.6	890.5	891.5	892.5	893.1	893.2	893.4
140°	929.2	928.2	927.2	926.2	927.2	928.2	929.2	930.1	930.6	930.6	930.6
142.5°	963.3	962.3	961.4	960.4	961.4	962.3	963.3	964.3	964.7	964.5	964.3
145°	1014.6	1013.6	1012.6	1011.6	1012.6	1013.6	1014.6	1015.5	1015.9	1015.7	1015.4
147.5°	1060.2	1059.2	1058.3	1057.4	1058.3	1059.2	1060.2	1061.1	1061.3	1060.7	1060.3
150°	1089.4	1088.6	1087.9	1087.2	1087.9	1088.6	1089.4	1090.1	1090.1	1089.4	1088.6
152.5°	1117.9	1117.1	1116.2	1115.2	1116.2	1117.1	1117.9	1118.9	1118.9	1117.9	1117.1
155°	1155.1	1154.3	1153.6	1152.8	1153.6	1154.3	1155.1	1155.7	1155.6	1154.3	1153.1
157.5°	1188.7	1187.6	1186.5	1185.2	1186.5	1187.6	1188.7	1190.0	1189.7	1188.1	1186.4
160°	1208.3	1207.4	1206.4	1205.4	1206.4	1207.4	1208.3	1209.3	1209.1	1207.6	1206.2
162.5°	1226.4	1225.3	1224.1	1222.9	1224.1	1225.3	1226.4	1227.6	1227.4	1225.7	1224.1
165°	1249.6	1248.4	1247.2	1245.9	1247.2	1248.4	1249.6	1250.8	1250.6	1248.9	1247.2
167.5°	1268.6	1267.2	1266.0	1264.8	1266.0	1267.2	1268.6	1269.8	1269.6	1267.9	1266.2
170°	1278.7	1277.3	1275.8	1274.4	1275.8	1277.3	1278.7	1280.3	1280.1	1278.4	1276.7
172.5°	1286.7	1285.2	1283.7	1282.2	1283.7	1285.2	1286.7	1288.1	1288.0	1286.3	1284.6
175°	1295.2	1293.7	1292.3	1290.8	1292.3	1293.7	1295.2	1296.7	1296.6	1294.9	1293.2
177.5°	1298.3	1297.1	1295.9	1294.8	1295.9	1297.1	1298.3	1299.4	1299.4	1298.3	1297.1
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



TEST NUMBER: P331322-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	880.1	883.3	888.1	893.1	896.2	902.1	903.8	906.6	909.2	915.0	921.2
5°	829.3	834.2	845.8	852.2	861.0	871.2	877.9	885.0	892.7	906.1	918.4
7.5°	774.9	783.1	797.5	809.4	821.9	836.5	847.1	861.0	872.5	891.4	909.5
10°	738.5	750.1	763.2	777.2	794.8	810.3	825.1	842.7	856.8	879.3	900.4
12.5°	705.9	707.6	726.2	741.8	765.8	784.9	802.0	824.6	838.5	865.3	887.5
15°	648.8	659.3	676.2	688.5	717.0	741.3	765.3	788.8	804.6	837.7	867.0
17.5°	600.7	610.4	627.7	647.9	668.4	692.5	723.5	748.4	769.9	807.7	842.3
20°	570.2	582.2	599.8	620.6	638.6	665.0	691.6	720.2	743.4	786.0	826.5
22.5°	544.3	553.7	568.0	588.4	608.1	632.3	661.6	692.6	717.0	762.9	804.0
25°	507.9	515.7	524.8	541.8	563.9	590.3	613.2	647.3	682.9	725.9	775.4
27.5°	475.1	480.6	488.7	503.6	520.8	545.4	570.9	603.2	639.0	685.6	738.0
30°	455.2	458.6	466.7	479.1	496.0	515.3	541.0	572.0	608.6	655.8	707.8
32.5°	437.7	440.9	446.2	458.0	472.6	489.2	512.3	543.3	578.2	624.5	682.2
35°	411.5	414.0	418.5	428.0	436.1	452.3	471.6	499.8	532.5	576.9	636.8
37.5°	385.4	388.7	391.5	395.6	406.0	416.6	433.5	457.2	489.4	534.1	591.2
40°	368.2	371.0	375.2	377.0	385.4	394.9	408.7	430.5	462.9	503.7	559.3
42.5°	350.7	353.5	356.1	358.2	365.4	373.8	386.2	404.9	433.6	473.3	528.4
45°	327.0	327.3	329.8	333.7	337.2	343.2	352.0	368.2	390.4	427.7	477.7
47.5°	302.9	303.3	303.8	305.5	309.3	314.7	320.6	333.8	353.6	383.4	432.1
50°	286.9	286.2	286.9	288.3	290.8	295.3	302.0	311.5	327.7	355.5	400.2
52.5°	271.4	271.3	270.8	271.4	273.3	276.4	281.2	289.3	303.8	329.3	368.7
55°	247.8	246.0	246.4	245.0	248.2	248.8	252.4	259.1	271.7	289.4	326.3
57.5°	222.6	221.2	219.6	219.2	219.0	220.8	223.7	228.9	238.7	254.1	284.1
60°	206.6	204.9	202.7	202.1	202.1	203.1	204.5	208.4	217.5	231.3	255.9
62.5°	190.3	188.2	187.0	185.1	184.5	185.7	187.1	189.8	196.4	209.3	230.5
65°	165.1	162.6	160.9	160.5	159.9	158.7	159.5	162.3	167.6	177.8	194.6
67.5°	139.8	137.5	137.0	135.1	134.0	134.2	134.0	136.5	139.6	148.4	161.0
70°	123.2	121.4	120.7	118.9	118.3	117.5	116.9	118.9	122.2	129.5	140.4
72.5°	106.3	104.8	103.3	101.8	102.0	101.2	101.1	102.4	105.0	111.8	120.2
75°	82.0	82.4	80.6	78.9	78.5	77.8	77.8	78.9	79.9	85.2	91.9
77.5°	59.5	59.2	57.7	57.1	56.8	56.1	56.8	57.5	58.1	61.6	66.5
80°	45.4	45.4	43.6	43.6	43.3	42.2	43.3	42.6	44.0	47.5	51.1
82.5°	32.4	31.9	31.9	31.3	31.2	30.4	30.9	31.6	32.1	34.6	36.7
85°	15.8	15.8	15.5	15.2	15.5	15.2	15.5	15.8	16.2	17.2	19.0
87.5°	10.9	11.3	10.6	9.7	8.7	7.9	7.4	7.1	7.0	6.7	6.4
90°	37.8	38.4	33.0	27.6	22.2	16.9	12.8	9.9	7.0	4.1	1.1
92.5°	34.9	34.8	33.6	32.3	31.0	29.8	28.1	25.9	23.8	21.6	19.5
95°	70.0	70.0	69.6	69.1	68.6	68.1	66.6	64.2	61.8	59.4	56.9
97.5°	117.8	117.8	116.9	115.9	115.0	114.1	112.5	110.5	108.3	106.1	104.1
100°	151.1	151.1	150.3	149.6	148.9	148.2	146.8	144.9	143.0	141.0	139.0
102.5°	187.2	187.0	186.1	185.1	184.3	183.3	182.1	180.5	179.0	177.4	175.9
105°	241.4	240.8	240.3	239.9	239.4	238.9	238.3	237.6	236.9	236.1	235.4
107.5°	300.4	300.2	300.2	300.2	300.2	300.2	299.6	298.6	297.6	296.4	295.4
110°	340.5	340.5	340.5	340.5	340.5	340.5	339.8	338.3	336.9	335.4	333.9



TEST NUMBER: P331322-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	381.1	381.6	381.8	382.0	382.2	382.5	381.8	380.3	378.9	377.4	376.0
115°	442.1	442.3	442.8	443.3	443.7	444.2	443.7	442.3	440.8	439.4	437.9
117.5°	501.7	502.3	503.7	505.0	506.4	507.7	507.5	505.5	503.6	501.6	499.6
120°	540.8	540.8	542.8	544.8	546.7	548.7	548.7	546.7	544.8	542.8	540.8
122.5°	582.3	582.9	584.3	585.6	587.0	588.3	587.9	585.5	583.2	580.9	578.5
125°	643.0	643.8	644.5	645.3	645.9	646.7	645.9	643.8	641.6	639.4	637.2
127.5°	702.0	702.9	703.8	704.6	705.5	706.4	705.4	702.7	699.9	697.1	694.4
130°	741.8	742.3	742.8	743.3	743.8	744.2	742.9	739.7	736.6	733.4	730.3
132.5°	781.6	782.6	782.5	782.4	782.3	782.2	780.9	778.3	775.7	773.2	770.5
135°	838.4	838.7	838.2	837.6	837.2	836.7	835.1	832.5	829.8	827.1	824.4
137.5°	893.6	893.8	893.2	892.6	891.9	891.3	889.9	887.7	885.5	883.4	881.1
140°	930.6	930.6	929.4	928.2	927.0	925.8	924.1	921.9	919.6	917.5	915.3
142.5°	964.1	963.9	963.1	962.2	961.4	960.5	959.0	956.9	954.7	952.5	950.4
145°	1015.1	1014.9	1013.4	1012.0	1010.5	1009.1	1007.5	1005.8	1004.1	1002.4	1000.7
147.5°	1059.7	1059.1	1058.2	1057.2	1056.2	1055.3	1053.8	1051.7	1049.6	1047.6	1045.6
150°	1087.9	1087.2	1086.2	1085.2	1084.3	1083.3	1082.0	1080.6	1079.1	1077.7	1076.2
152.5°	1116.2	1115.2	1114.1	1112.9	1111.7	1110.5	1109.2	1107.8	1106.3	1104.8	1103.3
155°	1151.9	1150.7	1150.0	1149.2	1148.5	1147.7	1147.1	1146.3	1145.6	1144.8	1144.2
157.5°	1184.8	1183.1	1182.6	1182.2	1181.8	1181.3	1180.9	1180.3	1179.9	1179.4	1178.9
160°	1204.7	1203.2	1203.0	1202.8	1202.5	1202.2	1201.9	1201.4	1200.9	1200.4	1200.0
162.5°	1222.4	1220.8	1220.5	1220.2	1220.0	1219.7	1219.7	1219.5	1219.4	1219.3	1219.2
165°	1245.5	1243.8	1243.8	1243.8	1243.8	1243.8	1243.9	1244.1	1244.3	1244.6	1244.8
167.5°	1264.5	1262.8	1262.8	1262.9	1262.9	1263.0	1263.4	1264.1	1264.8	1265.6	1266.3
170°	1275.0	1273.3	1273.6	1273.8	1274.0	1274.3	1274.8	1275.4	1276.2	1277.0	1277.7
172.5°	1282.9	1281.2	1281.4	1281.7	1282.0	1282.1	1282.6	1283.4	1284.1	1284.9	1285.5
175°	1291.5	1289.7	1290.2	1290.7	1291.2	1291.7	1292.3	1293.0	1293.7	1294.5	1295.2
177.5°	1295.9	1294.8	1295.1	1295.5	1295.9	1296.3	1296.8	1297.4	1298.0	1298.5	1299.1
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	920.7	922.1	926.6	931.1	936.1	937.5	939.8	937.8	937.3	942.6	946.6
5°	923.3	929.6	942.0	953.2	962.7	969.4	976.5	979.3	984.6	991.9	1001.1
7.5°	920.3	932.6	952.1	968.5	986.3	999.2	1009.3	1017.9	1028.2	1042.3	1057.5
10°	917.0	933.5	957.1	977.1	999.0	1015.5	1029.3	1042.6	1058.1	1077.5	1097.5
12.5°	910.8	930.4	959.9	983.6	1011.6	1027.9	1046.4	1075.3	1091.9	1118.9	1147.1
15°	898.3	920.1	961.3	990.5	1022.2	1053.2	1087.3	1114.7	1142.3	1158.1	1197.9
17.5°	879.8	911.8	957.4	991.6	1031.8	1080.5	1118.9	1150.1	1181.8	1207.4	1227.4
20°	864.9	899.8	951.8	992.7	1040.5	1093.0	1137.0	1168.7	1196.1	1217.6	1229.9
22.5°	846.0	889.9	940.6	988.4	1049.5	1101.5	1147.6	1172.6	1195.5	1206.0	1210.7
25°	816.2	869.1	926.4	984.9	1053.9	1108.8	1151.0	1166.2	1172.9	1162.6	1145.8
27.5°	784.3	843.1	910.2	978.3	1051.2	1104.0	1134.3	1131.9	1120.6	1087.5	1061.1
30°	760.3	825.1	897.2	971.5	1044.7	1096.1	1113.7	1096.1	1070.4	1033.5	995.8
32.5°	735.3	802.3	883.4	962.0	1032.9	1078.1	1081.9	1051.6	1011.8	969.9	922.8
35°	697.3	769.9	857.4	940.6	1007.8	1036.3	1019.4	965.9	918.7	861.4	797.3
37.5°	654.4	734.5	822.4	909.2	970.2	977.6	935.7	879.3	812.8	745.4	670.0
40°	622.4	707.2	797.7	885.2	939.1	931.4	877.9	816.0	736.7	654.4	584.3
42.5°	593.6	678.4	770.6	856.6	899.8	878.4	816.0	739.9	654.8	577.2	513.1
45°	543.8	631.1	725.5	808.5	833.2	794.8	712.1	627.6	543.8	479.1	428.4
47.5°	495.6	581.8	675.2	748.3	757.1	705.4	615.0	528.1	456.1	403.3	367.6
50°	460.1	546.7	639.2	704.4	701.5	639.2	546.3	463.5	403.4	360.8	336.9
52.5°	428.2	510.0	599.0	658.2	643.3	575.3	486.6	413.2	363.7	330.4	308.7
55°	378.7	454.4	538.9	586.4	559.0	483.6	408.7	349.5	312.9	287.9	271.1
57.5°	329.6	400.6	472.9	502.2	471.8	402.3	339.8	296.9	269.4	250.8	239.9
60°	299.2	361.2	425.6	450.9	414.6	352.7	303.4	265.0	242.9	227.7	217.9
62.5°	268.8	324.2	385.0	398.8	365.6	313.3	269.7	237.7	219.5	206.0	196.8
65°	227.4	272.8	319.0	328.1	297.5	256.9	222.4	201.7	185.5	175.7	168.2
67.5°	186.5	222.9	255.6	263.0	236.2	208.1	183.1	165.1	154.1	145.9	139.7
70°	162.3	191.1	217.9	223.9	202.4	177.4	158.4	143.9	134.1	127.1	121.1
72.5°	136.7	160.7	182.9	187.0	169.5	150.3	134.8	123.4	114.7	110.2	104.4
75°	104.5	118.7	135.9	137.0	125.4	113.7	101.7	94.3	89.7	84.2	81.3
77.5°	73.8	84.8	94.7	96.6	89.7	81.8	75.1	69.3	65.4	62.8	60.2
80°	56.4	65.1	69.4	71.8	66.9	61.3	57.4	53.5	51.1	49.3	47.5
82.5°	40.2	45.7	49.7	51.6	48.8	45.5	41.6	39.4	37.5	36.0	35.4
85°	20.5	22.9	25.4	26.0	25.4	23.9	21.9	21.9	20.7	20.5	20.5
87.5°	7.8	9.5	10.2	11.6	11.9	12.9	13.9	14.8	15.6	15.2	14.8
90°	4.1	7.0	9.9	12.8	16.9	22.2	27.6	33.0	38.4	37.8	37.3
92.5°	21.6	23.8	25.9	28.1	29.8	31.0	32.3	33.6	34.8	34.9	35.0
95°	59.4	61.8	64.2	66.6	68.1	68.6	69.1	69.6	70.0	70.0	70.0
97.5°	106.1	108.3	110.5	112.5	114.1	115.0	115.9	116.9	117.8	117.8	117.8
100°	141.0	143.0	144.9	146.8	148.2	148.9	149.6	150.3	151.1	151.1	151.1
102.5°	177.4	179.0	180.5	182.1	183.3	184.3	185.1	186.1	187.0	187.2	187.4
105°	236.1	236.9	237.6	238.3	238.9	239.4	239.9	240.3	240.8	241.4	241.9
107.5°	296.4	297.6	298.6	299.6	300.2	300.2	300.2	300.2	300.2	300.4	300.6
110°	335.4	336.9	338.3	339.8	340.5	340.5	340.5	340.5	340.5	340.5	340.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	377.4	378.9	380.3	381.8	382.5	382.2	382.0	381.8	381.6	381.1	380.5
115°	439.4	440.8	442.3	443.7	444.2	443.7	443.3	442.8	442.3	442.1	441.9
117.5°	501.6	503.6	505.5	507.5	507.7	506.4	505.0	503.7	502.3	501.7	501.1
120°	542.8	544.8	546.7	548.7	548.7	546.7	544.8	542.8	540.8	540.8	540.8
122.5°	580.9	583.2	585.5	587.9	588.3	587.0	585.6	584.3	582.9	582.3	581.7
125°	639.4	641.6	643.8	645.9	646.7	645.9	645.3	644.5	643.8	643.0	642.3
127.5°	697.1	699.9	702.7	705.4	706.4	705.5	704.6	703.8	702.9	702.0	701.2
130°	733.4	736.6	739.7	742.9	744.2	743.8	743.3	742.8	742.3	741.8	741.3
132.5°	773.2	775.7	778.3	780.9	782.2	782.3	782.4	782.5	782.6	781.6	780.4
135°	827.1	829.8	832.5	835.1	836.7	837.2	837.6	838.2	838.7	838.4	838.2
137.5°	883.4	885.5	887.7	889.9	891.3	891.9	892.6	893.2	893.8	893.6	893.4
140°	917.5	919.6	921.9	924.1	925.8	927.0	928.2	929.4	930.6	930.6	930.6
142.5°	952.5	954.7	956.9	959.0	960.5	961.4	962.2	963.1	963.9	964.1	964.3
145°	1002.4	1004.1	1005.8	1007.5	1009.1	1010.5	1012.0	1013.4	1014.9	1015.1	1015.4
147.5°	1047.6	1049.6	1051.7	1053.8	1055.3	1056.2	1057.2	1058.2	1059.1	1059.7	1060.3
150°	1077.7	1079.1	1080.6	1082.0	1083.3	1084.3	1085.2	1086.2	1087.2	1087.9	1088.6
152.5°	1104.8	1106.3	1107.8	1109.2	1110.5	1111.7	1112.9	1114.1	1115.2	1116.2	1117.1
155°	1144.8	1145.6	1146.3	1147.1	1147.7	1148.5	1149.2	1150.0	1150.7	1151.9	1153.1
157.5°	1179.4	1179.9	1180.3	1180.9	1181.3	1181.8	1182.2	1182.6	1183.1	1184.8	1186.4
160°	1200.4	1200.9	1201.4	1201.9	1202.2	1202.5	1202.8	1203.0	1203.2	1204.7	1206.2
162.5°	1219.3	1219.4	1219.5	1219.7	1219.7	1220.0	1220.2	1220.5	1220.8	1222.4	1224.1
165°	1244.6	1244.3	1244.1	1243.9	1243.8	1243.8	1243.8	1243.8	1243.8	1245.5	1247.2
167.5°	1265.6	1264.8	1264.1	1263.4	1263.0	1262.9	1262.9	1262.8	1262.8	1264.5	1266.2
170°	1277.0	1276.2	1275.4	1274.8	1274.3	1274.0	1273.8	1273.6	1273.3	1275.0	1276.7
172.5°	1284.9	1284.1	1283.4	1282.6	1282.1	1282.0	1281.7	1281.4	1281.2	1282.9	1284.6
175°	1294.5	1293.7	1293.0	1292.3	1291.7	1291.2	1290.7	1290.2	1289.7	1291.5	1293.2
177.5°	1298.5	1298.0	1297.4	1296.8	1296.3	1295.9	1295.5	1295.1	1294.8	1295.9	1297.1
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	950.0	953.9	953.9	954.5	958.9	958.5	958.2
5°	1011.0	1016.9	1017.7	1024.0	1028.2	1026.8	1022.9
7.5°	1068.5	1079.6	1088.1	1092.8	1098.3	1101.7	1100.2
10°	1114.1	1130.3	1140.1	1146.8	1154.9	1160.9	1158.8
12.5°	1155.5	1174.8	1188.3	1199.8	1200.8	1208.5	1203.2
15°	1220.0	1240.5	1242.6	1251.0	1257.7	1257.0	1257.4
17.5°	1241.3	1247.9	1249.2	1249.4	1249.5	1247.1	1241.7
20°	1233.8	1231.3	1225.3	1220.8	1212.7	1211.5	1204.6
22.5°	1197.7	1189.9	1174.9	1165.0	1152.4	1149.1	1147.1
25°	1126.7	1109.5	1085.5	1062.7	1056.3	1044.1	1047.5
27.5°	1029.4	1002.5	976.6	958.0	941.2	922.7	928.0
30°	960.9	930.7	894.1	865.9	848.0	830.4	827.2
32.5°	879.3	834.9	794.1	769.3	741.8	730.7	718.5
35°	738.5	695.2	654.7	619.9	599.8	584.3	570.2
37.5°	611.8	562.0	529.3	501.1	486.6	477.8	479.9
40°	533.3	489.7	465.7	444.2	430.8	424.5	425.9
42.5°	469.7	437.0	417.3	402.6	393.1	389.6	388.7
45°	397.4	379.1	362.9	354.5	349.9	346.0	343.6
47.5°	348.2	333.2	324.0	319.1	315.0	311.1	311.0
50°	318.6	308.7	302.4	297.1	293.9	291.1	293.6
52.5°	296.1	287.0	280.7	276.0	274.8	272.2	272.2
55°	262.6	255.5	251.0	246.8	244.7	243.3	241.5
57.5°	232.1	225.5	221.3	218.6	214.6	213.2	212.6
60°	210.5	205.2	201.0	197.5	195.7	192.9	192.9
62.5°	190.5	185.2	181.3	178.6	175.7	174.6	174.8
65°	161.6	157.3	153.4	150.6	150.0	147.9	148.5
67.5°	135.0	132.1	128.1	126.5	125.2	124.0	123.2
70°	117.3	114.4	112.3	110.2	109.1	109.1	109.1
72.5°	102.3	98.9	97.6	95.0	95.6	94.4	93.3
75°	79.2	77.1	76.1	74.9	73.2	73.2	73.2
77.5°	58.2	57.7	56.4	55.2	54.9	54.5	54.7
80°	45.1	44.7	44.0	44.0	43.3	43.0	42.2
82.5°	34.6	33.7	33.3	33.0	32.9	32.8	32.7
85°	19.7	19.0	19.0	19.3	18.7	18.7	19.0
87.5°	15.0	14.9	14.6	14.6	15.0	14.7	14.8
90°	36.9	36.4	36.3	36.5	36.8	36.9	37.2
92.5°	35.1	35.3	35.3	35.3	35.3	35.4	35.4
95°	70.0	70.0	69.8	69.4	68.9	68.3	67.9
97.5°	117.8	117.8	117.8	117.7	117.7	117.6	117.6
100°	151.1	151.1	151.0	150.7	150.5	150.2	150.0
102.5°	187.6	187.8	187.8	187.5	187.3	187.0	186.8
105°	242.3	242.8	243.1	243.1	243.1	243.1	243.1
107.5°	300.8	301.0	300.5	299.4	298.3	297.2	296.1
110°	340.5	340.5	340.2	339.4	338.7	337.9	337.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	379.9	379.4	378.8	378.2	377.7	377.2	376.6
115°	441.6	441.3	440.8	440.2	439.4	438.7	437.9
117.5°	500.6	500.0	499.4	498.6	497.9	497.1	496.4
120°	540.8	540.8	540.5	539.8	539.0	538.3	537.5
122.5°	581.2	580.5	580.0	579.5	578.9	578.4	577.9
125°	641.6	640.8	640.4	640.1	639.9	639.6	639.4
127.5°	700.2	699.4	698.5	697.8	697.0	696.3	695.4
130°	740.8	740.4	739.6	738.7	737.6	736.7	735.7
132.5°	779.4	778.4	777.4	776.7	775.8	775.1	774.3
135°	837.9	837.6	837.2	836.4	835.8	835.0	834.2
137.5°	893.2	893.1	892.5	891.5	890.5	889.6	888.5
140°	930.6	930.6	930.1	929.2	928.2	927.2	926.2
142.5°	964.5	964.7	964.3	963.3	962.3	961.4	960.4
145°	1015.7	1015.9	1015.5	1014.6	1013.6	1012.6	1011.6
147.5°	1060.7	1061.3	1061.1	1060.2	1059.2	1058.3	1057.4
150°	1089.4	1090.1	1090.1	1089.4	1088.6	1087.9	1087.2
152.5°	1117.9	1118.9	1118.9	1117.9	1117.1	1116.2	1115.2
155°	1154.3	1155.6	1155.7	1155.1	1154.3	1153.6	1152.8
157.5°	1188.1	1189.7	1190.0	1188.7	1187.6	1186.5	1185.2
160°	1207.6	1209.1	1209.3	1208.3	1207.4	1206.4	1205.4
162.5°	1225.7	1227.4	1227.6	1226.4	1225.3	1224.1	1222.9
165°	1248.9	1250.6	1250.8	1249.6	1248.4	1247.2	1245.9
167.5°	1267.9	1269.6	1269.8	1268.6	1267.2	1266.0	1264.8
170°	1278.4	1280.1	1280.3	1278.7	1277.3	1275.8	1274.4
172.5°	1286.3	1288.0	1288.1	1286.7	1285.2	1283.7	1282.2
175°	1294.9	1296.6	1296.7	1295.2	1293.7	1292.3	1290.8
177.5°	1298.3	1299.4	1299.4	1298.3	1297.1	1295.9	1294.8
180°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4

(END OF REPORT)