

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: P331321-940

Luminaire Tested: **SA2XXDIP-C485D1080U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331321-940
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-C485D1080U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5754.0 lumens
Efficiency: N/A
Efficacy: 116.5 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

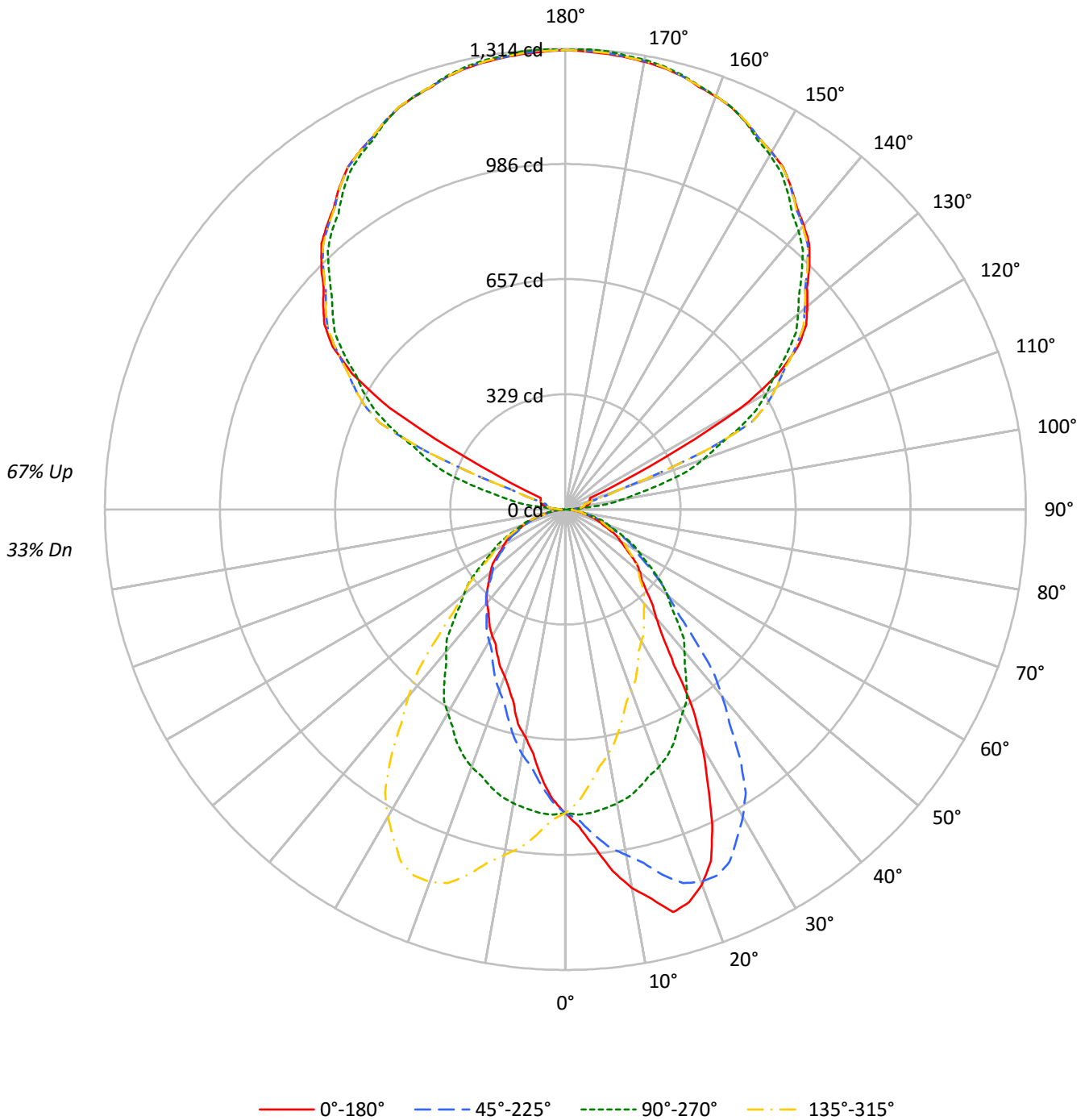
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				
1	94	90	87	83	85	82	78	76	65	63	61	50	49	48	36	36	35	29				
2	86	79	73	68	77	72	67	63	58	54	51	45	42	40	32	31	30	24				
3	79	70	63	57	71	63	57	53	51	47	43	40	37	34	29	27	26	21				
4	72	62	54	49	65	56	50	45	45	41	37	35	32	30	26	24	23	18				
5	66	55	47	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16				
6	61	50	42	36	55	45	38	34	37	32	28	29	25	23	22	19	18	14				
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	20	17	16	13				
8	52	41	33	28	47	37	31	26	30	26	22	24	21	18	18	16	14	12				
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13	11				
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	13	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13990	13990	13990	13990
5°	15686	14083	12478	14083
10°	17974	13967	10799	13967
15°	19883	13710	9541	13710
20°	19581	13435	8698	13435
25°	17655	13069	8165	13069
30°	14590	12486	7774	12486
35°	10634	11874	7496	11874
40°	8494	11152	7341	11152
45°	7421	10319	7133	10319
50°	6978	9510	6993	9510
55°	6432	8690	6804	8690
60°	5893	7818	6516	7818
65°	5368	7033	6235	7033
70°	4877	6274	5816	6274
75°	4323	5421	5153	5421
80°	3710	4491	4147	4491
85°	3335	3335	2464	3335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	1.4
10°-20°	239.9	4.2
20°-30°	348.2	6.1
30°-40°	367.4	6.4
40°-50°	325.3	5.7
50°-60°	259.6	4.5
60°-70°	176.5	3.1
70°-80°	90.5	1.6
80°-90°	25.0	0.4
90°-100°	43.7	0.8
100°-110°	160.2	2.8
110°-120°	428.4	7.4
120°-130°	707.1	12.3
130°-140°	752.0	13.1
140°-150°	699.0	12.1
150°-160°	562.0	9.8
160°-170°	362.1	6.3
170°-180°	124.6	2.2
0°-30°	670.6	11.7
0°-40°	1038.0	18.0
0°-60°	1623.0	28.2
0°-90°	1914.9	33.3
90°-120°	632.3	11.0
90°-150°	2790.4	48.5
90°-180°	3839.0	66.7
0°-180°	5754.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	866	866	866	866	866	
5°	968	869	770	869	968	97
15°	1190	820	571	820	1190	328
25°	991	734	458	734	991	448
35°	540	602	380	602	540	351
45°	325	452	312	452	325	256
55°	228	309	242	309	228	205
65°	140	184	163	184	140	140
75°	69	87	83	87	69	74
85°	18	18	13	18	18	20
90°	26	1	26	1	26	12
95°	41	62	41	62	41	38
105°	72	288	72	288	72	75
115°	78	545	78	545	78	195
125°	810	771	810	771	810	701
135°	985	954	985	954	985	759
145°	1123	1106	1123	1106	1123	702
155°	1219	1218	1219	1218	1219	563
165°	1281	1284	1281	1284	1281	362
175°	1305	1313	1305	1313	1305	124
180°	1310	1310	1310	1310	1310	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	906.5	906.8	907.2	903.0	902.5	902.5	898.8	895.5	891.8	886.7	887.3
5°	967.8	971.4	972.8	968.8	962.8	962.1	956.4	947.1	938.4	931.5	926.5
7.5°	1040.9	1042.3	1039.1	1033.8	1029.4	1021.4	1010.8	1000.5	986.1	972.8	963.0
10°	1096.3	1098.3	1092.6	1084.9	1078.6	1069.3	1054.0	1038.3	1019.4	1001.0	986.4
12.5°	1138.4	1143.4	1136.0	1135.1	1124.2	1111.4	1093.1	1085.2	1058.5	1033.0	1017.3
15°	1189.5	1189.2	1189.9	1183.6	1175.5	1173.6	1154.2	1133.3	1095.6	1080.7	1054.6
17.5°	1174.7	1179.8	1182.1	1182.1	1181.9	1180.6	1174.4	1161.2	1142.3	1118.0	1088.1
20°	1139.6	1146.2	1147.3	1154.9	1159.2	1164.9	1167.2	1163.6	1151.9	1131.6	1105.6
22.5°	1085.2	1087.1	1090.2	1102.2	1111.5	1125.7	1133.1	1145.4	1140.9	1131.0	1109.4
25°	991.0	987.7	999.3	1005.4	1027.0	1049.6	1066.0	1084.0	1099.9	1109.6	1103.3
27.5°	878.0	873.0	890.5	906.3	923.9	948.4	973.8	1003.9	1028.9	1060.2	1070.9
30°	782.6	785.6	802.3	819.2	845.9	880.5	909.1	942.1	977.8	1012.7	1037.0
32.5°	679.8	691.3	701.8	727.8	751.3	789.9	831.9	873.1	917.6	957.3	994.9
35°	539.5	552.8	567.5	586.5	619.4	657.7	698.7	754.3	814.9	869.2	913.8
37.5°	454.1	452.0	460.4	474.1	500.8	531.7	578.8	633.8	705.2	768.9	831.9
40°	403.0	401.6	407.6	420.3	440.6	463.2	504.5	552.8	619.1	697.0	772.0
42.5°	367.7	368.5	371.9	380.8	394.8	413.4	444.3	485.4	546.1	619.5	700.0
45°	325.0	327.3	331.0	335.4	343.3	358.6	375.9	405.3	453.3	514.5	593.8
47.5°	294.3	294.4	298.0	301.8	306.6	315.2	329.4	347.8	381.6	431.5	499.6
50°	277.8	275.4	278.0	281.1	286.1	292.0	301.4	318.7	341.3	381.7	438.5
52.5°	257.5	257.5	259.9	261.1	265.6	271.5	280.1	292.0	312.5	344.1	390.9
55°	228.5	230.2	231.5	233.4	237.5	241.7	248.4	256.5	272.4	296.0	330.6
57.5°	201.2	201.7	203.0	206.8	209.4	213.3	219.6	226.9	237.3	254.9	280.9
60°	182.5	182.5	185.1	186.8	190.1	194.1	199.1	206.2	215.4	229.8	250.7
62.5°	165.4	165.1	166.2	169.0	171.5	175.2	180.2	186.2	194.9	207.7	224.9
65°	140.5	139.9	141.9	142.5	145.2	148.8	152.8	159.2	166.2	175.5	190.8
67.5°	116.5	117.3	118.4	119.7	121.2	125.0	127.7	132.2	138.0	145.8	156.2
70°	103.3	103.3	103.3	104.2	106.2	108.3	110.9	114.6	120.2	126.9	136.2
72.5°	88.3	89.3	90.4	89.9	92.4	93.5	96.8	98.8	104.2	108.5	116.7
75°	69.3	69.3	69.3	70.9	72.0	72.9	74.9	77.0	79.6	84.9	89.3
77.5°	51.7	51.5	51.9	52.3	53.3	54.6	55.1	57.0	59.4	61.9	65.5
80°	39.9	40.7	40.9	41.6	41.6	42.3	42.6	44.9	46.6	48.3	50.6
82.5°	30.9	31.0	31.1	31.2	31.5	31.9	32.7	33.5	34.1	35.5	37.3
85°	18.0	17.7	17.7	18.3	18.0	18.0	18.6	19.4	19.4	19.6	20.7
87.5°	12.0	11.9	12.1	11.8	11.7	11.9	11.6	11.1	11.2	11.2	11.1
90°	25.6	25.1	24.8	24.3	23.9	23.2	22.1	21.0	20.0	19.0	17.3
92.5°	25.6	25.3	25.1	24.9	24.6	24.2	23.6	23.1	22.6	22.0	21.1
95°	40.8	40.9	41.2	41.4	41.6	41.2	40.1	39.1	38.0	37.0	35.5
97.5°	54.4	54.1	53.9	53.7	53.4	52.9	52.0	51.2	50.3	49.5	46.1
100°	63.5	63.1	62.7	62.2	61.8	60.8	59.1	57.4	55.7	54.0	50.5
102.5°	68.0	67.5	66.9	66.3	65.7	64.3	62.2	59.9	57.8	55.6	85.5
105°	72.1	71.2	70.4	69.6	68.7	67.1	64.7	62.4	60.1	57.8	115.3
107.5°	74.1	73.3	72.4	71.6	70.8	71.5	73.8	76.2	78.6	81.0	149.9
110°	74.9	74.0	73.2	72.3	71.5	81.6	102.7	123.8	144.8	165.9	226.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	75.6	75.0	74.3	73.7	72.9	111.0	187.9	264.7	341.6	418.4	433.5
115°	77.8	92.9	108.1	123.2	138.4	194.7	292.3	389.8	487.3	584.9	579.6
117.5°	317.4	367.2	417.1	466.9	516.7	553.5	577.0	600.7	624.2	647.8	644.2
120°	578.3	606.6	635.1	663.5	692.0	705.0	702.4	699.9	697.3	694.8	691.1
122.5°	721.6	727.1	732.6	738.2	743.6	745.6	744.1	742.6	741.1	739.6	735.5
125°	810.5	809.9	809.2	808.6	808.0	806.9	805.4	804.0	802.5	801.0	797.0
127.5°	866.6	866.5	866.4	866.2	866.1	865.0	862.8	860.7	858.5	856.4	853.4
130°	901.5	901.7	901.9	902.1	902.3	901.3	898.9	896.6	894.3	892.0	889.7
132.5°	935.6	935.9	936.0	936.2	936.5	935.6	933.6	931.6	929.6	927.6	925.3
135°	984.9	985.3	985.7	986.1	986.6	985.7	983.6	981.5	979.5	977.3	975.4
137.5°	1029.8	1030.6	1031.3	1032.0	1032.7	1032.0	1029.9	1027.9	1025.8	1023.8	1021.6
140°	1057.9	1058.9	1060.0	1061.0	1062.1	1061.7	1059.8	1057.9	1056.0	1054.1	1051.8
142.5°	1085.2	1086.3	1087.3	1088.3	1089.4	1089.0	1087.4	1085.6	1083.9	1082.2	1079.5
145°	1123.3	1124.4	1125.4	1126.5	1127.5	1127.3	1125.8	1124.4	1122.8	1121.4	1117.8
147.5°	1156.8	1157.7	1158.6	1159.5	1160.4	1160.3	1159.2	1158.1	1157.0	1155.9	1152.4
150°	1177.3	1178.4	1179.5	1180.4	1181.5	1181.4	1180.2	1178.9	1177.7	1176.3	1173.0
152.5°	1194.8	1196.1	1197.6	1198.9	1200.3	1200.4	1199.2	1197.8	1196.6	1195.3	1192.1
155°	1219.1	1220.8	1222.4	1224.1	1225.7	1226.0	1224.8	1223.4	1222.2	1220.9	1218.4
157.5°	1241.2	1242.9	1244.5	1246.2	1247.8	1247.9	1246.4	1245.0	1243.6	1242.2	1240.4
160°	1254.1	1255.6	1257.0	1258.6	1260.0	1260.1	1258.8	1257.6	1256.3	1255.1	1253.8
162.5°	1264.7	1266.5	1268.4	1270.2	1271.9	1272.2	1270.7	1269.3	1267.8	1266.4	1265.3
165°	1280.7	1282.1	1283.6	1285.0	1286.6	1286.6	1285.0	1283.6	1282.1	1280.7	1280.1
167.5°	1290.7	1292.6	1294.5	1296.4	1298.2	1298.5	1297.0	1295.6	1294.1	1292.6	1292.0
170°	1296.7	1298.7	1300.6	1302.4	1304.3	1304.6	1303.1	1301.6	1300.1	1298.7	1298.2
172.5°	1301.3	1303.2	1305.1	1307.0	1308.9	1309.1	1307.6	1306.2	1304.7	1303.2	1302.8
175°	1305.3	1307.4	1309.5	1311.6	1313.8	1314.0	1312.6	1311.1	1309.7	1308.1	1307.7
177.5°	1307.8	1309.3	1310.8	1312.3	1313.8	1314.0	1312.8	1311.6	1310.5	1309.3	1309.1
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	889.1	887.0	885.6	880.9	876.6	872.4	871.0	871.6	865.7	860.1	857.7
5°	923.8	917.1	910.8	901.8	891.2	879.5	873.5	868.9	857.2	844.5	837.2
7.5°	954.8	945.3	933.1	916.2	900.7	882.3	870.7	860.4	843.3	825.5	814.6
10°	973.7	960.7	945.1	924.4	905.4	883.2	867.5	851.9	831.9	810.6	797.3
12.5°	990.0	972.5	957.1	930.6	908.1	880.2	861.7	839.6	818.6	793.3	780.2
15°	1028.7	996.4	967.1	937.1	909.5	870.5	849.9	820.2	792.6	761.3	746.3
17.5°	1058.5	1022.3	976.2	938.1	905.8	862.6	832.3	796.8	764.1	728.3	708.0
20°	1075.7	1034.0	984.4	939.1	900.4	851.2	818.2	781.9	743.6	703.3	681.4
22.5°	1085.7	1042.1	992.9	935.1	889.8	841.9	800.4	760.6	721.8	678.3	655.2
25°	1089.0	1049.0	997.0	931.7	876.5	822.2	772.2	733.6	686.7	646.0	612.4
27.5°	1073.1	1044.5	994.5	925.5	861.1	797.6	742.0	698.2	648.6	604.6	570.7
30°	1053.6	1037.0	988.4	919.1	848.8	780.6	719.3	669.7	620.5	575.8	541.2
32.5°	1023.6	1019.9	977.2	910.1	835.8	759.0	695.6	645.4	590.8	547.0	514.0
35°	964.4	980.4	953.4	889.8	811.2	728.3	659.7	602.4	545.8	503.8	472.9
37.5°	885.2	924.9	917.8	860.1	778.0	694.9	619.1	559.3	505.3	463.0	432.6
40°	830.5	881.2	888.5	837.5	754.7	669.1	588.8	529.1	476.5	437.9	407.2
42.5°	772.0	831.1	851.2	810.4	729.1	641.9	561.6	499.9	447.8	410.2	383.1
45°	673.7	752.0	788.3	764.9	686.3	597.1	514.5	451.9	404.7	369.3	348.3
47.5°	581.8	667.4	716.2	707.9	638.8	550.5	468.9	408.8	362.7	334.6	315.8
50°	516.8	604.8	663.7	666.4	604.8	517.2	435.2	378.6	336.4	310.0	294.7
52.5°	460.4	544.3	608.6	622.7	566.7	482.5	405.1	348.8	311.6	287.4	273.7
55°	386.6	457.5	528.9	554.8	509.9	429.9	358.3	308.7	273.8	257.1	245.1
57.5°	321.5	380.6	446.4	475.1	447.4	379.0	311.8	268.8	240.4	225.8	216.6
60°	287.0	333.7	392.3	426.6	402.6	341.7	283.0	242.1	218.8	205.8	197.2
62.5°	255.1	296.4	345.9	377.3	364.3	306.7	254.3	218.1	198.0	185.8	179.6
65°	210.4	243.1	281.4	310.4	301.8	258.1	215.2	184.1	168.2	158.5	153.6
67.5°	173.3	196.9	223.5	248.8	241.8	210.9	176.5	152.3	140.4	132.1	129.1
70°	149.9	167.8	191.5	211.8	206.2	180.8	153.6	132.9	122.5	115.6	112.5
72.5°	127.5	142.2	160.3	176.9	173.1	152.0	129.3	113.7	105.8	99.3	96.8
75°	96.2	107.5	118.6	129.6	128.6	112.3	98.9	86.9	80.6	75.6	74.6
77.5°	71.1	77.4	84.9	91.4	89.6	80.3	69.8	63.0	58.3	54.9	54.4
80°	54.3	58.0	63.3	67.9	65.6	61.6	53.3	48.3	44.9	41.6	40.3
82.5°	39.3	43.1	46.2	48.8	47.0	43.2	38.1	34.7	32.7	30.4	29.9
85°	20.7	22.6	24.0	24.6	24.0	21.7	19.4	18.0	16.3	15.3	15.0
87.5°	11.1	10.8	10.4	10.6	9.3	8.8	7.3	6.1	6.2	6.4	6.3
90°	15.6	13.9	12.2	10.3	7.9	5.6	3.3	1.0	3.3	5.6	7.9
92.5°	20.3	19.4	18.6	18.3	18.5	18.7	18.9	19.2	18.9	18.7	18.5
95°	34.1	32.5	31.0	33.8	40.8	47.7	54.7	61.6	54.7	47.7	40.8
97.5°	42.6	39.2	35.8	44.0	63.5	83.1	102.7	122.3	102.7	83.1	63.5
100°	46.9	43.2	39.7	52.3	81.2	110.0	138.9	167.8	138.9	110.0	81.2
102.5°	115.5	145.4	175.4	193.4	199.5	205.6	211.7	217.8	211.7	205.6	199.5
105°	172.8	230.3	287.8	313.4	307.1	300.8	294.5	288.2	294.5	300.8	307.1
107.5°	218.9	287.8	356.9	388.8	383.6	378.5	373.4	368.4	373.4	378.5	383.6
110°	287.7	348.5	409.4	437.7	433.2	428.8	424.4	419.9	424.4	428.8	433.2



TEST NUMBER: P331321-940

CATALOG NUMBER: SA2XXDIP-C485D1080U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	448.5	463.5	478.6	484.1	480.2	476.3	472.4	468.5	472.4	476.3	480.2
115°	574.4	569.1	563.8	559.4	555.8	552.2	548.7	545.1	548.7	552.2	555.8
117.5°	640.6	636.9	633.3	629.5	625.5	621.5	617.5	613.5	617.5	621.5	625.5
120°	687.2	683.5	679.7	676.2	673.1	669.9	666.7	663.5	666.7	669.9	673.1
122.5°	731.3	727.2	723.1	719.3	716.0	712.7	709.4	706.1	709.4	712.7	716.0
125°	793.0	789.0	785.0	781.6	778.9	776.1	773.4	770.7	773.4	776.1	778.9
127.5°	850.3	847.4	844.4	841.4	838.4	835.4	832.3	829.3	832.3	835.4	838.4
130°	887.3	885.0	882.7	879.9	876.6	873.2	869.8	866.4	869.8	873.2	876.6
132.5°	923.0	920.7	918.4	915.8	912.9	910.1	907.2	904.3	907.2	910.1	912.9
135°	973.5	971.6	969.7	967.1	963.8	960.4	957.0	953.6	957.0	960.4	963.8
137.5°	1019.5	1017.4	1015.1	1012.9	1010.6	1008.2	1005.8	1003.4	1005.8	1008.2	1010.6
140°	1049.5	1047.1	1044.8	1042.9	1041.2	1039.5	1037.8	1036.1	1037.8	1039.5	1041.2
142.5°	1076.8	1074.2	1071.6	1069.4	1067.9	1066.4	1064.9	1063.4	1064.9	1066.4	1067.9
145°	1114.2	1110.6	1107.1	1105.4	1105.6	1105.8	1106.0	1106.3	1106.0	1105.8	1105.6
147.5°	1148.8	1145.3	1141.7	1140.4	1141.2	1142.0	1142.8	1143.6	1142.8	1142.0	1141.2
150°	1169.7	1166.3	1162.9	1162.0	1163.4	1164.9	1166.4	1167.9	1166.4	1164.9	1163.4
152.5°	1188.9	1185.7	1182.5	1181.8	1183.4	1185.0	1186.7	1188.3	1186.7	1185.0	1183.4
155°	1215.8	1213.4	1210.9	1210.5	1212.4	1214.3	1216.2	1218.1	1216.2	1214.3	1212.4
157.5°	1238.6	1236.9	1235.1	1235.0	1236.6	1238.2	1239.8	1241.4	1239.8	1238.2	1236.6
160°	1252.5	1251.2	1250.0	1250.0	1251.2	1252.5	1253.8	1255.1	1253.8	1252.5	1251.2
162.5°	1264.3	1263.1	1262.0	1262.1	1263.4	1264.6	1266.0	1267.2	1266.0	1264.6	1263.4
165°	1279.4	1278.7	1278.1	1278.4	1279.7	1280.9	1282.2	1283.5	1282.2	1280.9	1279.7
167.5°	1291.4	1290.8	1290.2	1290.6	1291.8	1293.1	1294.4	1295.7	1294.4	1293.1	1291.8
170°	1297.8	1297.4	1297.0	1297.4	1298.7	1299.9	1301.2	1302.4	1301.2	1299.9	1298.7
172.5°	1302.3	1302.0	1301.5	1302.0	1303.2	1304.5	1305.7	1307.0	1305.7	1304.5	1303.2
175°	1307.3	1306.9	1306.4	1307.0	1308.5	1309.9	1311.4	1312.9	1311.4	1309.9	1308.5
177.5°	1308.9	1308.8	1308.6	1309.1	1310.3	1311.4	1312.7	1313.8	1312.7	1311.4	1310.3
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



TEST NUMBER: P331321-940

CATALOG NUMBER: SA2XXDIP-C485D1080U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	855.1	853.5	847.8	844.9	840.2	835.6	832.7	834.0	835.1	834.6	833.7
5°	830.5	824.2	814.6	806.2	800.2	789.3	784.6	782.3	780.2	777.9	775.6
7.5°	801.4	791.4	777.6	765.7	754.5	740.8	733.1	728.3	723.5	718.3	713.6
10°	780.6	766.6	752.0	735.3	722.0	709.6	698.7	691.3	684.7	678.3	673.7
12.5°	758.8	742.6	724.5	701.8	687.1	669.4	667.8	654.9	644.4	640.5	635.1
15°	724.0	701.3	678.3	651.4	639.7	623.8	613.8	603.8	594.8	588.4	586.7
17.5°	684.5	655.1	632.3	613.0	593.9	577.5	568.3	560.3	552.9	544.4	543.3
20°	654.3	629.1	604.1	587.1	567.5	550.8	539.5	531.5	525.1	520.1	515.9
22.5°	625.9	598.2	575.3	556.7	537.3	523.9	515.0	507.3	502.0	496.5	492.4
25°	580.1	558.5	533.5	512.6	496.5	487.9	480.5	473.9	470.6	466.9	462.3
27.5°	540.1	516.0	492.7	476.4	462.4	454.7	449.5	445.0	441.8	439.7	437.0
30°	511.8	487.5	469.2	453.3	441.6	433.9	430.6	427.9	424.3	422.9	421.6
32.5°	484.6	462.8	447.1	433.3	422.1	417.1	414.1	411.7	408.8	407.5	404.8
35°	446.2	427.9	412.6	404.9	395.9	391.6	389.3	385.9	383.3	382.0	381.7
37.5°	410.1	394.1	384.1	374.3	370.4	367.7	364.6	362.3	361.5	361.3	361.0
40°	386.6	373.6	364.6	356.7	355.0	351.0	348.3	346.3	346.3	346.7	346.3
42.5°	365.3	353.7	345.7	338.9	336.9	334.5	331.8	331.7	332.3	333.3	332.3
45°	333.1	324.7	319.1	315.7	312.0	309.7	309.3	310.4	310.7	311.0	312.0
47.5°	303.3	297.7	292.7	289.0	287.4	287.0	286.6	288.3	289.9	290.5	292.0
50°	285.7	279.4	275.1	272.8	271.4	270.7	271.4	273.4	274.7	276.4	277.4
52.5°	266.0	261.5	258.6	256.7	256.2	256.6	256.7	259.0	261.2	261.7	262.3
55°	238.8	235.4	234.8	231.8	233.1	232.7	234.4	235.8	237.7	239.8	240.1
57.5°	211.6	208.9	207.1	207.4	207.8	209.3	210.6	213.0	215.2	217.2	217.5
60°	193.5	192.2	191.2	191.2	191.8	193.9	195.5	197.8	199.1	200.5	201.4
62.5°	177.0	175.7	174.6	175.1	176.9	178.1	180.0	181.3	182.6	184.0	184.4
65°	150.9	150.2	151.2	151.9	152.2	153.8	156.2	157.2	158.5	159.2	161.5
67.5°	126.8	127.0	126.8	127.8	129.7	130.1	132.2	134.6	134.9	136.2	137.7
70°	110.6	111.2	111.9	112.5	114.2	114.9	116.5	117.5	118.9	119.8	120.9
72.5°	95.7	95.8	96.5	96.3	97.7	99.2	100.6	101.6	102.9	104.2	105.1
75°	73.6	73.6	74.3	74.6	76.2	77.9	77.6	78.3	79.6	81.0	81.6
77.5°	53.8	53.1	53.8	54.0	54.6	56.0	56.3	57.2	58.8	58.3	59.0
80°	40.9	39.9	40.9	41.3	41.3	43.0	43.0	43.6	44.6	43.6	44.6
82.5°	29.2	28.8	29.5	29.6	30.1	30.1	30.7	30.9	31.8	31.4	31.8
85°	14.6	14.4	14.6	14.4	14.6	15.0	15.0	14.6	14.6	15.3	14.4
87.5°	6.6	6.7	6.8	7.1	7.2	7.2	7.2	7.4	7.6	7.3	7.5
90°	10.3	12.2	13.9	15.6	17.3	19.0	20.0	21.0	22.1	23.2	23.9
92.5°	18.3	18.6	19.4	20.3	21.1	22.0	22.6	23.1	23.6	24.2	24.6
95°	33.8	31.0	32.5	34.1	35.5	37.0	38.0	39.1	40.1	41.2	41.6
97.5°	44.0	35.8	39.2	42.6	46.1	49.5	50.3	51.2	52.0	52.9	53.4
100°	52.3	39.7	43.2	46.9	50.5	54.0	55.7	57.4	59.1	60.8	61.8
102.5°	193.4	175.4	145.4	115.5	85.5	55.6	57.8	59.9	62.2	64.3	65.7
105°	313.4	287.8	230.3	172.8	115.3	57.8	60.1	62.4	64.7	67.1	68.7
107.5°	388.8	356.9	287.8	218.9	149.9	81.0	78.6	76.2	73.8	71.5	70.8
110°	437.7	409.4	348.5	287.7	226.8	165.9	144.8	123.8	102.7	81.6	71.5



TEST NUMBER: P331321-940

CATALOG NUMBER: SA2XXDIP-C485D1080U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	484.1	478.6	463.5	448.5	433.5	418.4	341.6	264.7	187.9	111.0	72.9
115°	559.4	563.8	569.1	574.4	579.6	584.9	487.3	389.8	292.3	194.7	138.4
117.5°	629.5	633.3	636.9	640.6	644.2	647.8	624.2	600.7	577.0	553.5	516.7
120°	676.2	679.7	683.5	687.2	691.1	694.8	697.3	699.9	702.4	705.0	692.0
122.5°	719.3	723.1	727.2	731.3	735.5	739.6	741.1	742.6	744.1	745.6	743.6
125°	781.6	785.0	789.0	793.0	797.0	801.0	802.5	804.0	805.4	806.9	808.0
127.5°	841.4	844.4	847.4	850.3	853.4	856.4	858.5	860.7	862.8	865.0	866.1
130°	879.9	882.7	885.0	887.3	889.7	892.0	894.3	896.6	898.9	901.3	902.3
132.5°	915.8	918.4	920.7	923.0	925.3	927.6	929.6	931.6	933.6	935.6	936.5
135°	967.1	969.7	971.6	973.5	975.4	977.3	979.5	981.5	983.6	985.7	986.6
137.5°	1012.9	1015.1	1017.4	1019.5	1021.6	1023.8	1025.8	1027.9	1029.9	1032.0	1032.7
140°	1042.9	1044.8	1047.1	1049.5	1051.8	1054.1	1056.0	1057.9	1059.8	1061.7	1062.1
142.5°	1069.4	1071.6	1074.2	1076.8	1079.5	1082.2	1083.9	1085.6	1087.4	1089.0	1089.4
145°	1105.4	1107.1	1110.6	1114.2	1117.8	1121.4	1122.8	1124.4	1125.8	1127.3	1127.5
147.5°	1140.4	1141.7	1145.3	1148.8	1152.4	1155.9	1157.0	1158.1	1159.2	1160.3	1160.4
150°	1162.0	1162.9	1166.3	1169.7	1173.0	1176.3	1177.7	1178.9	1180.2	1181.4	1181.5
152.5°	1181.8	1182.5	1185.7	1188.9	1192.1	1195.3	1196.6	1197.8	1199.2	1200.4	1200.3
155°	1210.5	1210.9	1213.4	1215.8	1218.4	1220.9	1222.2	1223.4	1224.8	1226.0	1225.7
157.5°	1235.0	1235.1	1236.9	1238.6	1240.4	1242.2	1243.6	1245.0	1246.4	1247.9	1247.8
160°	1250.0	1250.0	1251.2	1252.5	1253.8	1255.1	1256.3	1257.6	1258.8	1260.1	1260.0
162.5°	1262.1	1262.0	1263.1	1264.3	1265.3	1266.4	1267.8	1269.3	1270.7	1272.2	1271.9
165°	1278.4	1278.1	1278.7	1279.4	1280.1	1280.7	1282.1	1283.6	1285.0	1286.6	1286.6
167.5°	1290.6	1290.2	1290.8	1291.4	1292.0	1292.6	1294.1	1295.6	1297.0	1298.5	1298.2
170°	1297.4	1297.0	1297.4	1297.8	1298.2	1298.7	1300.1	1301.6	1303.1	1304.6	1304.3
172.5°	1302.0	1301.5	1302.0	1302.3	1302.8	1303.2	1304.7	1306.2	1307.6	1309.1	1308.9
175°	1307.0	1306.4	1306.9	1307.3	1307.7	1308.1	1309.7	1311.1	1312.6	1314.0	1313.8
177.5°	1309.1	1308.6	1308.8	1308.9	1309.1	1309.3	1310.5	1311.6	1312.8	1314.0	1313.8
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



TEST NUMBER: P331321-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	831.1	830.5	830.5	828.1	830.5	830.5	831.1	833.7	834.6	835.1	834.0
5°	771.0	769.9	768.3	769.9	768.3	769.9	771.0	775.6	777.9	780.2	782.3
7.5°	711.5	707.5	706.9	702.9	706.9	707.5	711.5	713.6	718.3	723.5	728.3
10°	668.1	665.4	665.0	658.7	665.0	665.4	668.1	673.7	678.3	684.7	691.3
12.5°	635.0	628.6	629.9	626.2	629.9	628.6	635.0	635.1	640.5	644.4	654.9
15°	577.7	577.7	576.5	570.8	576.5	577.7	577.7	586.7	588.4	594.8	603.8
17.5°	536.7	536.0	532.8	534.4	532.8	536.0	536.7	543.3	544.4	552.9	560.3
20°	512.2	510.1	506.2	506.2	506.2	510.1	512.2	515.9	520.1	525.1	531.5
22.5°	489.0	488.8	484.6	486.0	484.6	488.8	489.0	492.4	496.5	502.0	507.3
25°	461.9	459.2	457.3	458.3	457.3	459.2	461.9	462.3	466.9	470.6	473.9
27.5°	436.2	434.7	434.6	431.9	434.6	434.7	436.2	437.0	439.7	441.8	445.0
30°	421.2	417.9	418.6	417.0	418.6	417.9	421.2	421.6	422.9	424.3	427.9
32.5°	404.2	403.1	402.3	400.9	402.3	403.1	404.2	404.8	407.5	408.8	411.7
35°	380.9	381.3	379.6	380.3	379.6	381.3	380.9	381.7	382.0	383.3	385.9
37.5°	360.7	361.8	361.0	361.1	361.0	361.8	360.7	361.0	361.3	361.5	362.3
40°	347.3	347.3	347.3	348.3	347.3	347.3	347.3	346.3	346.7	346.3	346.3
42.5°	334.6	334.0	333.5	333.4	333.5	334.0	334.6	332.3	333.3	332.3	331.7
45°	312.7	313.7	314.1	312.4	314.1	313.7	312.7	312.0	311.0	310.7	310.4
47.5°	292.9	293.0	292.9	294.4	292.9	293.0	292.9	292.0	290.5	289.9	288.3
50°	279.1	278.4	279.1	278.4	279.1	278.4	279.1	277.4	276.4	274.7	273.4
52.5°	264.4	264.6	264.1	264.0	264.1	264.6	264.4	262.3	261.7	261.2	259.0
55°	241.5	242.1	241.7	241.7	241.7	242.1	241.5	240.1	239.8	237.7	235.8
57.5°	217.7	218.3	218.7	217.2	218.7	218.3	217.7	217.5	217.2	215.2	213.0
60°	201.2	202.8	202.5	201.8	202.5	202.8	201.2	201.4	200.5	199.1	197.8
62.5°	185.9	186.5	186.5	186.4	186.5	186.5	185.9	184.4	184.0	182.6	181.3
65°	162.5	163.2	162.2	163.2	162.2	163.2	162.5	161.5	159.2	158.5	157.2
67.5°	137.2	137.5	138.2	138.7	138.2	137.5	137.2	137.7	136.2	134.9	134.6
70°	121.5	121.2	122.3	123.2	122.3	121.2	121.5	120.9	119.8	118.9	117.5
72.5°	105.0	105.8	105.4	106.2	105.4	105.8	105.0	105.1	104.2	102.9	101.6
75°	81.0	81.9	81.6	82.6	81.6	81.9	81.0	81.6	81.0	79.6	78.3
77.5°	58.5	58.6	58.5	59.0	58.5	58.6	58.5	59.0	58.3	58.8	57.2
80°	44.6	44.0	43.2	44.6	43.2	44.0	44.6	44.6	43.6	44.6	43.6
82.5°	31.0	31.5	30.8	30.8	30.8	31.5	31.0	31.8	31.4	31.8	30.9
85°	14.4	14.0	13.3	13.3	13.3	14.0	14.4	14.4	15.3	14.6	14.6
87.5°	7.5	7.3	7.4	7.2	7.4	7.3	7.5	7.5	7.3	7.6	7.4
90°	24.3	24.8	25.1	25.6	25.1	24.8	24.3	23.9	23.2	22.1	21.0
92.5°	24.9	25.1	25.3	25.6	25.3	25.1	24.9	24.6	24.2	23.6	23.1
95°	41.4	41.2	40.9	40.8	40.9	41.2	41.4	41.6	41.2	40.1	39.1
97.5°	53.7	53.9	54.1	54.4	54.1	53.9	53.7	53.4	52.9	52.0	51.2
100°	62.2	62.7	63.1	63.5	63.1	62.7	62.2	61.8	60.8	59.1	57.4
102.5°	66.3	66.9	67.5	68.0	67.5	66.9	66.3	65.7	64.3	62.2	59.9
105°	69.6	70.4	71.2	72.1	71.2	70.4	69.6	68.7	67.1	64.7	62.4
107.5°	71.6	72.4	73.3	74.1	73.3	72.4	71.6	70.8	71.5	73.8	76.2
110°	72.3	73.2	74.0	74.9	74.0	73.2	72.3	71.5	81.6	102.7	123.8



TEST NUMBER: P331321-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	73.7	74.3	75.0	75.6	75.0	74.3	73.7	72.9	111.0	187.9	264.7
115°	123.2	108.1	92.9	77.8	92.9	108.1	123.2	138.4	194.7	292.3	389.8
117.5°	466.9	417.1	367.2	317.4	367.2	417.1	466.9	516.7	553.5	577.0	600.7
120°	663.5	635.1	606.6	578.3	606.6	635.1	663.5	692.0	705.0	702.4	699.9
122.5°	738.2	732.6	727.1	721.6	727.1	732.6	738.2	743.6	745.6	744.1	742.6
125°	808.6	809.2	809.9	810.5	809.9	809.2	808.6	808.0	806.9	805.4	804.0
127.5°	866.2	866.4	866.5	866.6	866.5	866.4	866.2	866.1	865.0	862.8	860.7
130°	902.1	901.9	901.7	901.5	901.7	901.9	902.1	902.3	901.3	898.9	896.6
132.5°	936.2	936.0	935.9	935.6	935.9	936.0	936.2	936.5	935.6	933.6	931.6
135°	986.1	985.7	985.3	984.9	985.3	985.7	986.1	986.6	985.7	983.6	981.5
137.5°	1032.0	1031.3	1030.6	1029.8	1030.6	1031.3	1032.0	1032.7	1032.0	1029.9	1027.9
140°	1061.0	1060.0	1058.9	1057.9	1058.9	1060.0	1061.0	1062.1	1061.7	1059.8	1057.9
142.5°	1088.3	1087.3	1086.3	1085.2	1086.3	1087.3	1088.3	1089.4	1089.0	1087.4	1085.6
145°	1126.5	1125.4	1124.4	1123.3	1124.4	1125.4	1126.5	1127.5	1127.3	1125.8	1124.4
147.5°	1159.5	1158.6	1157.7	1156.8	1157.7	1158.6	1159.5	1160.4	1160.3	1159.2	1158.1
150°	1180.4	1179.5	1178.4	1177.3	1178.4	1179.5	1180.4	1181.5	1181.4	1180.2	1178.9
152.5°	1198.9	1197.6	1196.1	1194.8	1196.1	1197.6	1198.9	1200.3	1200.4	1199.2	1197.8
155°	1224.1	1222.4	1220.8	1219.1	1220.8	1222.4	1224.1	1225.7	1226.0	1224.8	1223.4
157.5°	1246.2	1244.5	1242.9	1241.2	1242.9	1244.5	1246.2	1247.8	1247.9	1246.4	1245.0
160°	1258.6	1257.0	1255.6	1254.1	1255.6	1257.0	1258.6	1260.0	1260.1	1258.8	1257.6
162.5°	1270.2	1268.4	1266.5	1264.7	1266.5	1268.4	1270.2	1271.9	1272.2	1270.7	1269.3
165°	1285.0	1283.6	1282.1	1280.7	1282.1	1283.6	1285.0	1286.6	1286.6	1285.0	1283.6
167.5°	1296.4	1294.5	1292.6	1290.7	1292.6	1294.5	1296.4	1298.2	1298.5	1297.0	1295.6
170°	1302.4	1300.6	1298.7	1296.7	1298.7	1300.6	1302.4	1304.3	1304.6	1303.1	1301.6
172.5°	1307.0	1305.1	1303.2	1301.3	1303.2	1305.1	1307.0	1308.9	1309.1	1307.6	1306.2
175°	1311.6	1309.5	1307.4	1305.3	1307.4	1309.5	1311.6	1313.8	1314.0	1312.6	1311.1
177.5°	1312.3	1310.8	1309.3	1307.8	1309.3	1310.8	1312.3	1313.8	1314.0	1312.8	1311.6
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



TEST NUMBER: P331321-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	832.7	835.6	840.2	844.9	847.8	853.5	855.1	857.7	860.1	865.7	871.6
5°	784.6	789.3	800.2	806.2	814.6	824.2	830.5	837.2	844.5	857.2	868.9
7.5°	733.1	740.8	754.5	765.7	777.6	791.4	801.4	814.6	825.5	843.3	860.4
10°	698.7	709.6	722.0	735.3	752.0	766.6	780.6	797.3	810.6	831.9	851.9
12.5°	667.8	669.4	687.1	701.8	724.5	742.6	758.8	780.2	793.3	818.6	839.6
15°	613.8	623.8	639.7	651.4	678.3	701.3	724.0	746.3	761.3	792.6	820.2
17.5°	568.3	577.5	593.9	613.0	632.3	655.1	684.5	708.0	728.3	764.1	796.8
20°	539.5	550.8	567.5	587.1	604.1	629.1	654.3	681.4	703.3	743.6	781.9
22.5°	515.0	523.9	537.3	556.7	575.3	598.2	625.9	655.2	678.3	721.8	760.6
25°	480.5	487.9	496.5	512.6	533.5	558.5	580.1	612.4	646.0	686.7	733.6
27.5°	449.5	454.7	462.4	476.4	492.7	516.0	540.1	570.7	604.6	648.6	698.2
30°	430.6	433.9	441.6	453.3	469.2	487.5	511.8	541.2	575.8	620.5	669.7
32.5°	414.1	417.1	422.1	433.3	447.1	462.8	484.6	514.0	547.0	590.8	645.4
35°	389.3	391.6	395.9	404.9	412.6	427.9	446.2	472.9	503.8	545.8	602.4
37.5°	364.6	367.7	370.4	374.3	384.1	394.1	410.1	432.6	463.0	505.3	559.3
40°	348.3	351.0	355.0	356.7	364.6	373.6	386.6	407.2	437.9	476.5	529.1
42.5°	331.8	334.5	336.9	338.9	345.7	353.7	365.3	383.1	410.2	447.8	499.9
45°	309.3	309.7	312.0	315.7	319.1	324.7	333.1	348.3	369.3	404.7	451.9
47.5°	286.6	287.0	287.4	289.0	292.7	297.7	303.3	315.8	334.6	362.7	408.8
50°	271.4	270.7	271.4	272.8	275.1	279.4	285.7	294.7	310.0	336.4	378.6
52.5°	256.7	256.6	256.2	256.7	258.6	261.5	266.0	273.7	287.4	311.6	348.8
55°	234.4	232.7	233.1	231.8	234.8	235.4	238.8	245.1	257.1	273.8	308.7
57.5°	210.6	209.3	207.8	207.4	207.1	208.9	211.6	216.6	225.8	240.4	268.8
60°	195.5	193.9	191.8	191.2	191.2	192.2	193.5	197.2	205.8	218.8	242.1
62.5°	180.0	178.1	176.9	175.1	174.6	175.7	177.0	179.6	185.8	198.0	218.1
65°	156.2	153.8	152.2	151.9	151.2	150.2	150.9	153.6	158.5	168.2	184.1
67.5°	132.2	130.1	129.7	127.8	126.8	127.0	126.8	129.1	132.1	140.4	152.3
70°	116.5	114.9	114.2	112.5	111.9	111.2	110.6	112.5	115.6	122.5	132.9
72.5°	100.6	99.2	97.7	96.3	96.5	95.8	95.7	96.8	99.3	105.8	113.7
75°	77.6	77.9	76.2	74.6	74.3	73.6	73.6	74.6	75.6	80.6	86.9
77.5°	56.3	56.0	54.6	54.0	53.8	53.1	53.8	54.4	54.9	58.3	63.0
80°	43.0	43.0	41.3	41.3	40.9	39.9	40.9	40.3	41.6	44.9	48.3
82.5°	30.7	30.1	30.1	29.6	29.5	28.8	29.2	29.9	30.4	32.7	34.7
85°	15.0	15.0	14.6	14.4	14.6	14.4	14.6	15.0	15.3	16.3	18.0
87.5°	7.2	7.2	7.2	7.1	6.8	6.7	6.6	6.3	6.4	6.2	6.1
90°	20.0	19.0	17.3	15.6	13.9	12.2	10.3	7.9	5.6	3.3	1.0
92.5°	22.6	22.0	21.1	20.3	19.4	18.6	18.3	18.5	18.7	18.9	19.2
95°	38.0	37.0	35.5	34.1	32.5	31.0	33.8	40.8	47.7	54.7	61.6
97.5°	50.3	49.5	46.1	42.6	39.2	35.8	44.0	63.5	83.1	102.7	122.3
100°	55.7	54.0	50.5	46.9	43.2	39.7	52.3	81.2	110.0	138.9	167.8
102.5°	57.8	55.6	85.5	115.5	145.4	175.4	193.4	199.5	205.6	211.7	217.8
105°	60.1	57.8	115.3	172.8	230.3	287.8	313.4	307.1	300.8	294.5	288.2
107.5°	78.6	81.0	149.9	218.9	287.8	356.9	388.8	383.6	378.5	373.4	368.4
110°	144.8	165.9	226.8	287.7	348.5	409.4	437.7	433.2	428.8	424.4	419.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	341.6	418.4	433.5	448.5	463.5	478.6	484.1	480.2	476.3	472.4	468.5
115°	487.3	584.9	579.6	574.4	569.1	563.8	559.4	555.8	552.2	548.7	545.1
117.5°	624.2	647.8	644.2	640.6	636.9	633.3	629.5	625.5	621.5	617.5	613.5
120°	697.3	694.8	691.1	687.2	683.5	679.7	676.2	673.1	669.9	666.7	663.5
122.5°	741.1	739.6	735.5	731.3	727.2	723.1	719.3	716.0	712.7	709.4	706.1
125°	802.5	801.0	797.0	793.0	789.0	785.0	781.6	778.9	776.1	773.4	770.7
127.5°	858.5	856.4	853.4	850.3	847.4	844.4	841.4	838.4	835.4	832.3	829.3
130°	894.3	892.0	889.7	887.3	885.0	882.7	879.9	876.6	873.2	869.8	866.4
132.5°	929.6	927.6	925.3	923.0	920.7	918.4	915.8	912.9	910.1	907.2	904.3
135°	979.5	977.3	975.4	973.5	971.6	969.7	967.1	963.8	960.4	957.0	953.6
137.5°	1025.8	1023.8	1021.6	1019.5	1017.4	1015.1	1012.9	1010.6	1008.2	1005.8	1003.4
140°	1056.0	1054.1	1051.8	1049.5	1047.1	1044.8	1042.9	1041.2	1039.5	1037.8	1036.1
142.5°	1083.9	1082.2	1079.5	1076.8	1074.2	1071.6	1069.4	1067.9	1066.4	1064.9	1063.4
145°	1122.8	1121.4	1117.8	1114.2	1110.6	1107.1	1105.4	1105.6	1105.8	1106.0	1106.3
147.5°	1157.0	1155.9	1152.4	1148.8	1145.3	1141.7	1140.4	1141.2	1142.0	1142.8	1143.6
150°	1177.7	1176.3	1173.0	1169.7	1166.3	1162.9	1162.0	1163.4	1164.9	1166.4	1167.9
152.5°	1196.6	1195.3	1192.1	1188.9	1185.7	1182.5	1181.8	1183.4	1185.0	1186.7	1188.3
155°	1222.2	1220.9	1218.4	1215.8	1213.4	1210.9	1210.5	1212.4	1214.3	1216.2	1218.1
157.5°	1243.6	1242.2	1240.4	1238.6	1236.9	1235.1	1235.0	1236.6	1238.2	1239.8	1241.4
160°	1256.3	1255.1	1253.8	1252.5	1251.2	1250.0	1250.0	1251.2	1252.5	1253.8	1255.1
162.5°	1267.8	1266.4	1265.3	1264.3	1263.1	1262.0	1262.1	1263.4	1264.6	1266.0	1267.2
165°	1282.1	1280.7	1280.1	1279.4	1278.7	1278.1	1278.4	1279.7	1280.9	1282.2	1283.5
167.5°	1294.1	1292.6	1292.0	1291.4	1290.8	1290.2	1290.6	1291.8	1293.1	1294.4	1295.7
170°	1300.1	1298.7	1298.2	1297.8	1297.4	1297.0	1297.4	1298.7	1299.9	1301.2	1302.4
172.5°	1304.7	1303.2	1302.8	1302.3	1302.0	1301.5	1302.0	1303.2	1304.5	1305.7	1307.0
175°	1309.7	1308.1	1307.7	1307.3	1306.9	1306.4	1307.0	1308.5	1309.9	1311.4	1312.9
177.5°	1310.5	1309.3	1309.1	1308.9	1308.8	1308.6	1309.1	1310.3	1311.4	1312.7	1313.8
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



TEST NUMBER: P331321-940

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	871.0	872.4	876.6	880.9	885.6	887.0	889.1	887.3	886.7	891.8	895.5
5°	873.5	879.5	891.2	901.8	910.8	917.1	923.8	926.5	931.5	938.4	947.1
7.5°	870.7	882.3	900.7	916.2	933.1	945.3	954.8	963.0	972.8	986.1	1000.5
10°	867.5	883.2	905.4	924.4	945.1	960.7	973.7	986.4	1001.0	1019.4	1038.3
12.5°	861.7	880.2	908.1	930.6	957.1	972.5	990.0	1017.3	1033.0	1058.5	1085.2
15°	849.9	870.5	909.5	937.1	967.1	996.4	1028.7	1054.6	1080.7	1095.6	1133.3
17.5°	832.3	862.6	905.8	938.1	976.2	1022.3	1058.5	1088.1	1118.0	1142.3	1161.2
20°	818.2	851.2	900.4	939.1	984.4	1034.0	1075.7	1105.6	1131.6	1151.9	1163.6
22.5°	800.4	841.9	889.8	935.1	992.9	1042.1	1085.7	1109.4	1131.0	1140.9	1145.4
25°	772.2	822.2	876.5	931.7	997.0	1049.0	1089.0	1103.3	1109.6	1099.9	1084.0
27.5°	742.0	797.6	861.1	925.5	994.5	1044.5	1073.1	1070.9	1060.2	1028.9	1003.9
30°	719.3	780.6	848.8	919.1	988.4	1037.0	1053.6	1037.0	1012.7	977.8	942.1
32.5°	695.6	759.0	835.8	910.1	977.2	1019.9	1023.6	994.9	957.3	917.6	873.1
35°	659.7	728.3	811.2	889.8	953.4	980.4	964.4	913.8	869.2	814.9	754.3
37.5°	619.1	694.9	778.0	860.1	917.8	924.9	885.2	831.9	768.9	705.2	633.8
40°	588.8	669.1	754.7	837.5	888.5	881.2	830.5	772.0	697.0	619.1	552.8
42.5°	561.6	641.9	729.1	810.4	851.2	831.1	772.0	700.0	619.5	546.1	485.4
45°	514.5	597.1	686.3	764.9	788.3	752.0	673.7	593.8	514.5	453.3	405.3
47.5°	468.9	550.5	638.8	707.9	716.2	667.4	581.8	499.6	431.5	381.6	347.8
50°	435.2	517.2	604.8	666.4	663.7	604.8	516.8	438.5	381.7	341.3	318.7
52.5°	405.1	482.5	566.7	622.7	608.6	544.3	460.4	390.9	344.1	312.5	292.0
55°	358.3	429.9	509.9	554.8	528.9	457.5	386.6	330.6	296.0	272.4	256.5
57.5°	311.8	379.0	447.4	475.1	446.4	380.6	321.5	280.9	254.9	237.3	226.9
60°	283.0	341.7	402.6	426.6	392.3	333.7	287.0	250.7	229.8	215.4	206.2
62.5°	254.3	306.7	364.3	377.3	345.9	296.4	255.1	224.9	207.7	194.9	186.2
65°	215.2	258.1	301.8	310.4	281.4	243.1	210.4	190.8	175.5	166.2	159.2
67.5°	176.5	210.9	241.8	248.8	223.5	196.9	173.3	156.2	145.8	138.0	132.2
70°	153.6	180.8	206.2	211.8	191.5	167.8	149.9	136.2	126.9	120.2	114.6
72.5°	129.3	152.0	173.1	176.9	160.3	142.2	127.5	116.7	108.5	104.2	98.8
75°	98.9	112.3	128.6	129.6	118.6	107.5	96.2	89.3	84.9	79.6	77.0
77.5°	69.8	80.3	89.6	91.4	84.9	77.4	71.1	65.5	61.9	59.4	57.0
80°	53.3	61.6	65.6	67.9	63.3	58.0	54.3	50.6	48.3	46.6	44.9
82.5°	38.1	43.2	47.0	48.8	46.2	43.1	39.3	37.3	35.5	34.1	33.5
85°	19.4	21.7	24.0	24.6	24.0	22.6	20.7	20.7	19.6	19.4	19.4
87.5°	7.3	8.8	9.3	10.6	10.4	10.8	11.1	11.1	11.2	11.2	11.1
90°	3.3	5.6	7.9	10.3	12.2	13.9	15.6	17.3	19.0	20.0	21.0
92.5°	18.9	18.7	18.5	18.3	18.6	19.4	20.3	21.1	22.0	22.6	23.1
95°	54.7	47.7	40.8	33.8	31.0	32.5	34.1	35.5	37.0	38.0	39.1
97.5°	102.7	83.1	63.5	44.0	35.8	39.2	42.6	46.1	49.5	50.3	51.2
100°	138.9	110.0	81.2	52.3	39.7	43.2	46.9	50.5	54.0	55.7	57.4
102.5°	211.7	205.6	199.5	193.4	175.4	145.4	115.5	85.5	55.6	57.8	59.9
105°	294.5	300.8	307.1	313.4	287.8	230.3	172.8	115.3	57.8	60.1	62.4
107.5°	373.4	378.5	383.6	388.8	356.9	287.8	218.9	149.9	81.0	78.6	76.2
110°	424.4	428.8	433.2	437.7	409.4	348.5	287.7	226.8	165.9	144.8	123.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	472.4	476.3	480.2	484.1	478.6	463.5	448.5	433.5	418.4	341.6	264.7
115°	548.7	552.2	555.8	559.4	563.8	569.1	574.4	579.6	584.9	487.3	389.8
117.5°	617.5	621.5	625.5	629.5	633.3	636.9	640.6	644.2	647.8	624.2	600.7
120°	666.7	669.9	673.1	676.2	679.7	683.5	687.2	691.1	694.8	697.3	699.9
122.5°	709.4	712.7	716.0	719.3	723.1	727.2	731.3	735.5	739.6	741.1	742.6
125°	773.4	776.1	778.9	781.6	785.0	789.0	793.0	797.0	801.0	802.5	804.0
127.5°	832.3	835.4	838.4	841.4	844.4	847.4	850.3	853.4	856.4	858.5	860.7
130°	869.8	873.2	876.6	879.9	882.7	885.0	887.3	889.7	892.0	894.3	896.6
132.5°	907.2	910.1	912.9	915.8	918.4	920.7	923.0	925.3	927.6	929.6	931.6
135°	957.0	960.4	963.8	967.1	969.7	971.6	973.5	975.4	977.3	979.5	981.5
137.5°	1005.8	1008.2	1010.6	1012.9	1015.1	1017.4	1019.5	1021.6	1023.8	1025.8	1027.9
140°	1037.8	1039.5	1041.2	1042.9	1044.8	1047.1	1049.5	1051.8	1054.1	1056.0	1057.9
142.5°	1064.9	1066.4	1067.9	1069.4	1071.6	1074.2	1076.8	1079.5	1082.2	1083.9	1085.6
145°	1106.0	1105.8	1105.6	1105.4	1107.1	1110.6	1114.2	1117.8	1121.4	1122.8	1124.4
147.5°	1142.8	1142.0	1141.2	1140.4	1141.7	1145.3	1148.8	1152.4	1155.9	1157.0	1158.1
150°	1166.4	1164.9	1163.4	1162.0	1162.9	1166.3	1169.7	1173.0	1176.3	1177.7	1178.9
152.5°	1186.7	1185.0	1183.4	1181.8	1182.5	1185.7	1188.9	1192.1	1195.3	1196.6	1197.8
155°	1216.2	1214.3	1212.4	1210.5	1210.9	1213.4	1215.8	1218.4	1220.9	1222.2	1223.4
157.5°	1239.8	1238.2	1236.6	1235.0	1235.1	1236.9	1238.6	1240.4	1242.2	1243.6	1245.0
160°	1253.8	1252.5	1251.2	1250.0	1250.0	1251.2	1252.5	1253.8	1255.1	1256.3	1257.6
162.5°	1266.0	1264.6	1263.4	1262.1	1262.0	1263.1	1264.3	1265.3	1266.4	1267.8	1269.3
165°	1282.2	1280.9	1279.7	1278.4	1278.1	1278.7	1279.4	1280.1	1280.7	1282.1	1283.6
167.5°	1294.4	1293.1	1291.8	1290.6	1290.2	1290.8	1291.4	1292.0	1292.6	1294.1	1295.6
170°	1301.2	1299.9	1298.7	1297.4	1297.0	1297.4	1297.8	1298.2	1298.7	1300.1	1301.6
172.5°	1305.7	1304.5	1303.2	1302.0	1301.5	1302.0	1302.3	1302.8	1303.2	1304.7	1306.2
175°	1311.4	1309.9	1308.5	1307.0	1306.4	1306.9	1307.3	1307.7	1308.1	1309.7	1311.1
177.5°	1312.7	1311.4	1310.3	1309.1	1308.6	1308.8	1308.9	1309.1	1309.3	1310.5	1311.6
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	898.8	902.5	902.5	903.0	907.2	906.8	906.5
5°	956.4	962.1	962.8	968.8	972.8	971.4	967.8
7.5°	1010.8	1021.4	1029.4	1033.8	1039.1	1042.3	1040.9
10°	1054.0	1069.3	1078.6	1084.9	1092.6	1098.3	1096.3
12.5°	1093.1	1111.4	1124.2	1135.1	1136.0	1143.4	1138.4
15°	1154.2	1173.6	1175.5	1183.6	1189.9	1189.2	1189.5
17.5°	1174.4	1180.6	1181.9	1182.1	1182.1	1179.8	1174.7
20°	1167.2	1164.9	1159.2	1154.9	1147.3	1146.2	1139.6
22.5°	1133.1	1125.7	1111.5	1102.2	1090.2	1087.1	1085.2
25°	1066.0	1049.6	1027.0	1005.4	999.3	987.7	991.0
27.5°	973.8	948.4	923.9	906.3	890.5	873.0	878.0
30°	909.1	880.5	845.9	819.2	802.3	785.6	782.6
32.5°	831.9	789.9	751.3	727.8	701.8	691.3	679.8
35°	698.7	657.7	619.4	586.5	567.5	552.8	539.5
37.5°	578.8	531.7	500.8	474.1	460.4	452.0	454.1
40°	504.5	463.2	440.6	420.3	407.6	401.6	403.0
42.5°	444.3	413.4	394.8	380.8	371.9	368.5	367.7
45°	375.9	358.6	343.3	335.4	331.0	327.3	325.0
47.5°	329.4	315.2	306.6	301.8	298.0	294.4	294.3
50°	301.4	292.0	286.1	281.1	278.0	275.4	277.8
52.5°	280.1	271.5	265.6	261.1	259.9	257.5	257.5
55°	248.4	241.7	237.5	233.4	231.5	230.2	228.5
57.5°	219.6	213.3	209.4	206.8	203.0	201.7	201.2
60°	199.1	194.1	190.1	186.8	185.1	182.5	182.5
62.5°	180.2	175.2	171.5	169.0	166.2	165.1	165.4
65°	152.8	148.8	145.2	142.5	141.9	139.9	140.5
67.5°	127.7	125.0	121.2	119.7	118.4	117.3	116.5
70°	110.9	108.3	106.2	104.2	103.3	103.3	103.3
72.5°	96.8	93.5	92.4	89.9	90.4	89.3	88.3
75°	74.9	72.9	72.0	70.9	69.3	69.3	69.3
77.5°	55.1	54.6	53.3	52.3	51.9	51.5	51.7
80°	42.6	42.3	41.6	41.6	40.9	40.7	39.9
82.5°	32.7	31.9	31.5	31.2	31.1	31.0	30.9
85°	18.6	18.0	18.0	18.3	17.7	17.7	18.0
87.5°	11.6	11.9	11.7	11.8	12.1	11.9	12.0
90°	22.1	23.2	23.9	24.3	24.8	25.1	25.6
92.5°	23.6	24.2	24.6	24.9	25.1	25.3	25.6
95°	40.1	41.2	41.6	41.4	41.2	40.9	40.8
97.5°	52.0	52.9	53.4	53.7	53.9	54.1	54.4
100°	59.1	60.8	61.8	62.2	62.7	63.1	63.5
102.5°	62.2	64.3	65.7	66.3	66.9	67.5	68.0
105°	64.7	67.1	68.7	69.6	70.4	71.2	72.1
107.5°	73.8	71.5	70.8	71.6	72.4	73.3	74.1
110°	102.7	81.6	71.5	72.3	73.2	74.0	74.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	187.9	111.0	72.9	73.7	74.3	75.0	75.6
115°	292.3	194.7	138.4	123.2	108.1	92.9	77.8
117.5°	577.0	553.5	516.7	466.9	417.1	367.2	317.4
120°	702.4	705.0	692.0	663.5	635.1	606.6	578.3
122.5°	744.1	745.6	743.6	738.2	732.6	727.1	721.6
125°	805.4	806.9	808.0	808.6	809.2	809.9	810.5
127.5°	862.8	865.0	866.1	866.2	866.4	866.5	866.6
130°	898.9	901.3	902.3	902.1	901.9	901.7	901.5
132.5°	933.6	935.6	936.5	936.2	936.0	935.9	935.6
135°	983.6	985.7	986.6	986.1	985.7	985.3	984.9
137.5°	1029.9	1032.0	1032.7	1032.0	1031.3	1030.6	1029.8
140°	1059.8	1061.7	1062.1	1061.0	1060.0	1058.9	1057.9
142.5°	1087.4	1089.0	1089.4	1088.3	1087.3	1086.3	1085.2
145°	1125.8	1127.3	1127.5	1126.5	1125.4	1124.4	1123.3
147.5°	1159.2	1160.3	1160.4	1159.5	1158.6	1157.7	1156.8
150°	1180.2	1181.4	1181.5	1180.4	1179.5	1178.4	1177.3
152.5°	1199.2	1200.4	1200.3	1198.9	1197.6	1196.1	1194.8
155°	1224.8	1226.0	1225.7	1224.1	1222.4	1220.8	1219.1
157.5°	1246.4	1247.9	1247.8	1246.2	1244.5	1242.9	1241.2
160°	1258.8	1260.1	1260.0	1258.6	1257.0	1255.6	1254.1
162.5°	1270.7	1272.2	1271.9	1270.2	1268.4	1266.5	1264.7
165°	1285.0	1286.6	1286.6	1285.0	1283.6	1282.1	1280.7
167.5°	1297.0	1298.5	1298.2	1296.4	1294.5	1292.6	1290.7
170°	1303.1	1304.6	1304.3	1302.4	1300.6	1298.7	1296.7
172.5°	1307.6	1309.1	1308.9	1307.0	1305.1	1303.2	1301.3
175°	1312.6	1314.0	1313.8	1311.6	1309.5	1307.4	1305.3
177.5°	1312.8	1314.0	1313.8	1312.3	1310.8	1309.3	1307.8
180°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0

(END OF REPORT)