

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: P331313-840

Luminaire Tested: **SA2XXDIP-C485D925U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331313-840
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-C485D925U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

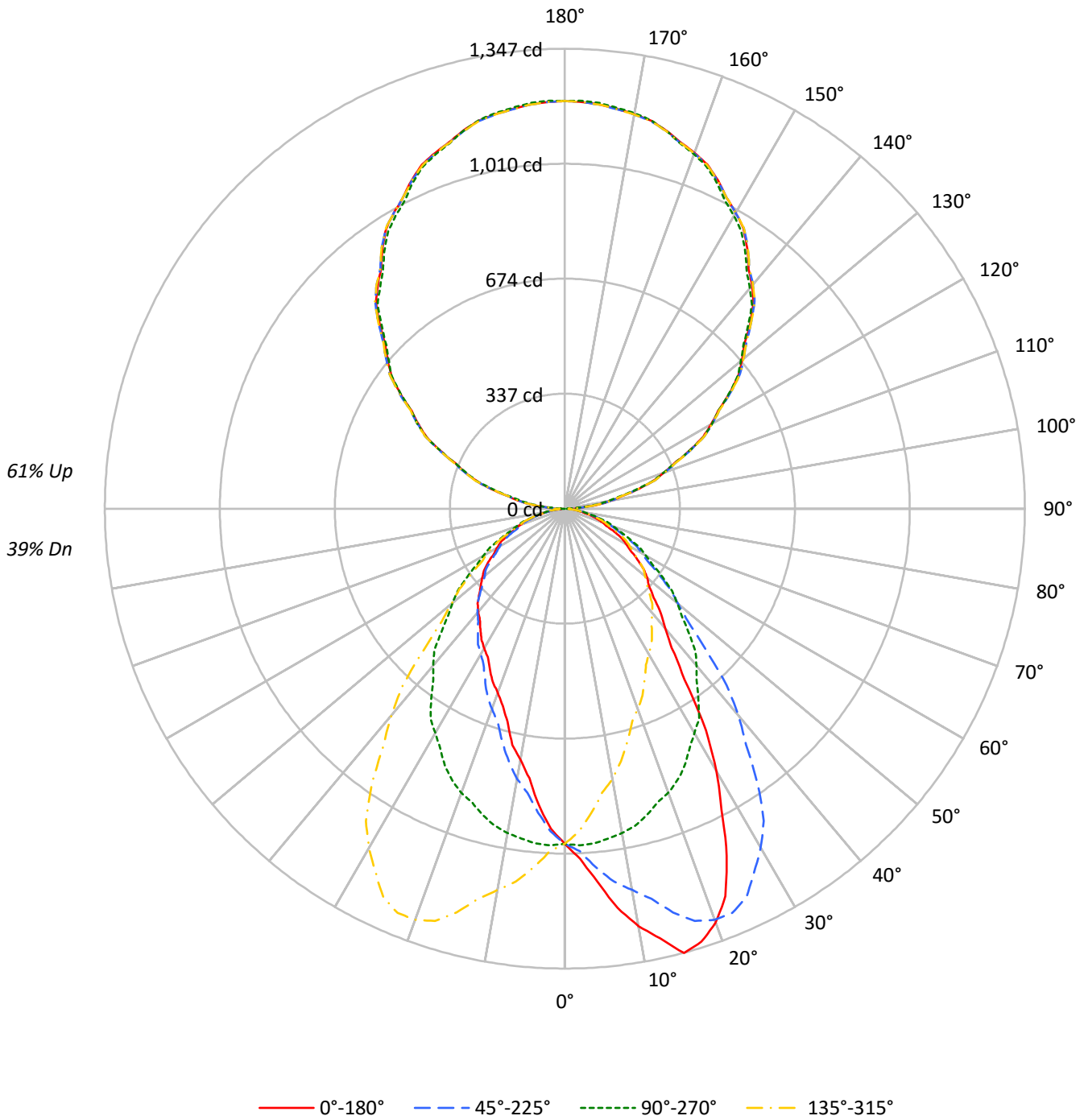
Lumens per Lamp: N/A
Luminaire Lumens: 5509.1 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	88	85	87	84	80	78	68	66	64	54	53	52	42	41	40	34
2	87	80	75	70	79	73	68	64	60	57	54	48	46	44	37	35	34	29
3	80	71	64	58	73	65	59	54	53	49	46	43	40	37	33	31	29	25
4	73	63	55	50	67	58	51	46	48	43	39	38	35	32	30	28	26	22
5	67	56	49	43	61	52	45	40	43	38	34	35	31	28	27	25	23	19
6	62	51	43	37	56	46	40	35	39	34	30	31	28	25	25	22	20	17
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	23	20	18	15
8	53	42	34	29	49	38	32	27	32	27	23	26	23	20	21	18	16	14
9	50	38	31	26	45	35	29	24	29	24	21	24	21	18	19	17	15	13
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15844	15844	15844	15844
5°	17763	15948	14131	15948
10°	20354	15816	12231	15816
15°	22519	15527	10805	15527
20°	22175	15216	9850	15216
25°	19996	14801	9246	14801
30°	16524	14139	8804	14139
35°	12043	13448	8489	13448
40°	9619	12631	8315	12631
45°	8405	11686	8079	11686
50°	7902	10771	7920	10771
55°	7282	9841	7707	9841
60°	6675	8854	7379	8854
65°	6082	7966	7060	7966
70°	5519	7105	6590	7105
75°	4897	6145	5833	6145
80°	4203	5086	4695	5086
85°	3779	3779	2779	3779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.7
10°-20°	271.7	4.9
20°-30°	394.3	7.2
30°-40°	416.1	7.6
40°-50°	368.4	6.7
50°-60°	294.0	5.3
60°-70°	199.8	3.6
70°-80°	102.5	1.9
80°-90°	29.5	0.5
90°-100°	75.7	1.4
100°-110°	235.0	4.3
110°-120°	401.8	7.3
120°-130°	528.3	9.6
130°-140°	593.0	10.8
140°-150°	581.4	10.6
150°-160°	487.7	8.9
160°-170°	323.5	5.9
170°-180°	113.0	2.1
0°-30°	759.5	13.8
0°-40°	1175.6	21.3
0°-60°	1838.0	33.4
0°-90°	2169.8	39.4
90°-120°	712.5	12.9
90°-150°	2415.2	43.8
90°-180°	3339.0	60.6
0°-180°	5509.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	981	981	981	981	981	
5°	1096	984	872	984	1096	109
15°	1347	929	646	929	1347	372
25°	1122	831	519	831	1122	507
35°	611	682	431	682	611	397
45°	368	512	354	512	368	289
55°	259	350	274	350	259	232
65°	159	208	185	208	159	158
75°	78	98	94	98	78	84
85°	20	20	15	20	20	23
90°	34	1	34	1	34	16
95°	62	52	62	52	62	70
105°	224	217	224	217	224	235
115°	403	403	403	403	403	398
125°	588	586	588	586	588	525
135°	768	759	768	759	768	591
145°	931	921	931	921	931	582
155°	1061	1053	1061	1053	1061	488
165°	1147	1146	1147	1146	1147	323
175°	1188	1192	1188	1192	1188	113
180°	1194	1194	1194	1194	1194	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1026.6	1026.9	1027.4	1022.7	1022.1	1022.1	1017.8	1014.2	1010.0	1004.2	1004.8
5°	1096.0	1100.1	1101.7	1097.1	1090.4	1089.5	1083.2	1072.6	1062.8	1054.9	1049.2
7.5°	1178.8	1180.4	1176.8	1170.8	1165.8	1156.7	1144.8	1133.1	1116.7	1101.7	1090.6
10°	1241.5	1243.9	1237.4	1228.7	1221.5	1211.0	1193.7	1175.9	1154.5	1133.7	1117.1
12.5°	1289.2	1294.8	1286.6	1285.5	1273.1	1258.7	1238.0	1229.0	1198.8	1169.9	1152.1
15°	1347.2	1346.8	1347.6	1340.4	1331.3	1329.1	1307.2	1283.4	1240.8	1223.9	1194.4
17.5°	1330.4	1336.2	1338.8	1338.7	1338.5	1337.1	1330.0	1315.0	1293.6	1266.2	1232.2
20°	1290.6	1298.1	1299.3	1308.0	1312.8	1319.3	1321.9	1317.8	1304.5	1281.5	1252.1
22.5°	1229.0	1231.1	1234.7	1248.2	1258.8	1274.9	1283.2	1297.2	1292.1	1280.9	1256.4
25°	1122.4	1118.6	1131.8	1138.6	1163.1	1188.7	1207.2	1227.6	1245.7	1256.7	1249.5
27.5°	994.3	988.7	1008.5	1026.4	1046.3	1074.1	1102.9	1136.9	1165.2	1200.6	1212.7
30°	886.3	889.7	908.6	927.8	958.0	997.1	1029.6	1066.9	1107.3	1146.9	1174.4
32.5°	769.8	782.8	794.8	824.3	850.8	894.5	942.1	988.8	1039.2	1084.1	1126.7
35°	611.0	626.0	642.7	664.2	701.5	744.9	791.2	854.2	922.9	984.3	1034.9
37.5°	514.2	511.9	521.4	536.9	567.1	602.2	655.5	717.8	798.6	870.8	942.1
40°	456.4	454.8	461.6	475.9	499.0	524.6	571.4	626.0	701.1	789.3	874.2
42.5°	416.5	417.4	421.2	431.3	447.1	468.2	503.2	549.8	618.4	701.6	792.7
45°	368.1	370.7	374.9	379.8	388.8	406.2	425.8	459.0	513.3	582.7	672.5
47.5°	333.3	333.4	337.5	341.8	347.2	357.0	373.0	393.8	432.1	488.7	565.8
50°	314.6	311.8	314.9	318.3	324.0	330.7	341.3	360.9	386.6	432.2	496.7
52.5°	291.6	291.6	294.4	295.7	300.7	307.5	317.2	330.7	354.0	389.7	442.7
55°	258.7	260.6	262.2	264.4	268.9	273.8	281.3	290.4	308.5	335.3	374.5
57.5°	227.8	228.4	229.9	234.2	237.1	241.6	248.7	257.0	268.7	288.6	318.1
60°	206.7	206.7	209.6	211.6	215.3	219.8	225.5	233.5	244.0	260.2	284.0
62.5°	187.3	187.0	188.2	191.4	194.2	198.4	204.1	210.9	220.8	235.2	254.7
65°	159.2	158.4	160.7	161.4	164.4	168.5	173.1	180.3	188.2	198.7	216.1
67.5°	132.0	132.9	134.1	135.5	137.2	141.6	144.6	149.7	156.3	165.1	176.9
70°	116.9	116.9	116.9	118.1	120.3	122.6	125.6	129.8	136.1	143.7	154.2
72.5°	100.0	101.2	102.4	101.8	104.6	105.9	109.6	111.9	118.1	122.9	132.2
75°	78.5	78.5	78.5	80.3	81.5	82.6	84.8	87.2	90.2	96.1	101.1
77.5°	58.6	58.4	58.8	59.2	60.4	61.8	62.4	64.5	67.3	70.1	74.2
80°	45.2	46.0	46.4	47.2	47.2	47.9	48.3	50.9	52.8	54.7	57.4
82.5°	35.0	35.1	35.2	35.3	35.6	36.2	37.1	38.0	38.6	40.2	42.2
85°	20.4	20.0	20.0	20.7	20.4	20.4	21.1	21.9	21.9	22.2	23.4
87.5°	14.7	14.6	14.9	14.5	14.5	14.8	14.9	14.7	15.1	15.6	14.8
90°	34.2	34.0	33.8	33.6	33.3	33.5	33.9	34.3	34.8	35.2	30.3
92.5°	32.6	32.6	32.5	32.5	32.5	32.4	32.3	32.2	32.1	32.0	30.9
95°	62.5	62.9	63.4	63.8	64.2	64.5	64.5	64.5	64.5	64.5	64.0
97.5°	108.3	108.3	108.4	108.4	108.5	108.5	108.5	108.5	108.5	108.5	107.6
100°	138.0	138.3	138.6	138.8	139.0	139.1	139.1	139.1	139.1	139.1	138.5
102.5°	172.0	172.2	172.4	172.6	172.8	172.9	172.7	172.5	172.3	172.2	171.3
105°	223.7	223.7	223.7	223.7	223.7	223.5	223.1	222.6	222.2	221.7	221.3
107.5°	272.5	273.6	274.6	275.6	276.6	277.0	276.9	276.7	276.5	276.3	276.3
110°	310.4	311.0	311.7	312.5	313.1	313.5	313.5	313.5	313.5	313.5	313.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	346.7	347.2	347.7	348.2	348.6	349.2	349.7	350.2	350.8	351.3	351.5
115°	403.1	403.7	404.5	405.2	405.8	406.3	406.5	406.7	407.0	407.2	407.6
117.5°	457.0	457.6	458.3	459.0	459.6	460.2	460.8	461.3	461.8	462.4	463.6
120°	494.8	495.5	496.1	496.9	497.6	497.9	497.9	497.9	497.9	497.9	499.7
122.5°	531.9	532.4	532.9	533.4	533.9	534.4	534.9	535.4	536.0	536.5	537.9
125°	588.5	588.8	589.0	589.3	589.5	589.9	590.6	591.3	591.9	592.6	593.3
127.5°	640.2	640.9	641.6	642.3	643.0	643.8	644.6	645.4	646.2	647.0	647.8
130°	677.2	678.1	679.0	679.9	680.9	681.5	682.0	682.4	682.9	683.3	683.8
132.5°	712.8	713.5	714.2	714.9	715.6	716.4	717.4	718.4	719.4	720.3	720.2
135°	767.9	768.6	769.3	769.9	770.6	771.0	771.3	771.5	771.7	771.9	771.5
137.5°	817.9	818.8	819.7	820.6	821.5	822.0	822.2	822.4	822.6	822.7	822.2
140°	852.6	853.5	854.3	855.3	856.2	856.7	856.7	856.7	856.7	856.7	855.6
142.5°	884.0	884.9	885.9	886.8	887.7	888.0	887.8	887.7	887.5	887.3	886.5
145°	931.2	932.1	933.0	933.9	934.8	935.1	934.9	934.6	934.4	934.2	932.9
147.5°	973.3	974.2	975.0	975.9	976.7	976.9	976.4	975.9	975.4	974.9	974.0
150°	1000.8	1001.4	1002.1	1002.8	1003.4	1003.4	1002.8	1002.1	1001.4	1000.8	999.9
152.5°	1026.5	1027.4	1028.2	1029.1	1030.0	1030.0	1029.1	1028.2	1027.4	1026.5	1025.4
155°	1061.2	1061.9	1062.6	1063.2	1063.9	1063.7	1062.6	1061.5	1060.4	1059.1	1058.5
157.5°	1091.1	1092.1	1093.2	1094.3	1095.3	1095.1	1093.6	1092.1	1090.6	1089.0	1088.6
160°	1109.5	1110.4	1111.4	1112.3	1113.2	1113.0	1111.6	1110.2	1108.9	1107.5	1107.3
162.5°	1125.7	1126.8	1127.8	1128.9	1130.0	1129.7	1128.2	1126.7	1125.2	1123.7	1123.5
165°	1146.9	1148.0	1149.1	1150.2	1151.3	1151.1	1149.5	1148.0	1146.4	1144.9	1144.9
167.5°	1164.2	1165.4	1166.5	1167.7	1168.8	1168.6	1167.1	1165.5	1164.0	1162.4	1162.5
170°	1173.1	1174.4	1175.8	1177.1	1178.4	1178.3	1176.8	1175.2	1173.7	1172.0	1172.3
172.5°	1180.3	1181.6	1183.1	1184.4	1185.7	1185.6	1184.1	1182.5	1180.9	1179.3	1179.5
175°	1188.2	1189.5	1190.8	1192.2	1193.6	1193.5	1191.8	1190.3	1188.7	1187.2	1187.6
177.5°	1191.8	1192.9	1194.0	1195.1	1196.1	1196.1	1195.1	1194.0	1192.9	1191.8	1192.1
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1006.9	1004.5	1003.0	997.6	992.8	988.0	986.4	987.0	980.4	974.1	971.4
5°	1046.2	1038.6	1031.5	1021.3	1009.3	996.0	989.3	984.0	970.8	956.4	948.2
7.5°	1081.4	1070.6	1056.7	1037.6	1020.1	999.3	986.0	974.4	955.0	934.8	922.5
10°	1102.8	1088.0	1070.4	1046.9	1025.4	1000.2	982.5	964.7	942.1	918.0	902.9
12.5°	1121.2	1101.4	1083.9	1053.9	1028.4	996.8	975.8	950.9	927.1	898.4	883.5
15°	1165.0	1128.4	1095.2	1061.3	1030.0	985.8	962.5	928.9	897.6	862.1	845.2
17.5°	1198.8	1157.7	1105.5	1062.4	1025.8	976.9	942.6	902.4	865.4	824.9	801.8
20°	1218.2	1171.0	1114.8	1063.6	1019.8	964.0	926.7	885.6	842.1	796.5	771.6
22.5°	1229.6	1180.1	1124.5	1059.0	1007.7	953.4	906.5	861.4	817.4	768.2	742.0
25°	1233.2	1188.0	1129.1	1055.2	992.6	931.2	874.5	830.8	777.7	731.6	693.6
27.5°	1215.3	1182.9	1126.3	1048.1	975.2	903.3	840.3	790.7	734.6	684.7	646.3
30°	1193.3	1174.4	1119.3	1040.9	961.3	884.0	814.7	758.4	702.7	652.1	612.9
32.5°	1159.2	1155.1	1106.7	1030.7	946.5	859.6	787.8	730.9	669.1	619.5	582.1
35°	1092.2	1110.3	1079.7	1007.7	918.7	824.9	747.1	682.3	618.1	570.6	535.5
37.5°	1002.5	1047.4	1039.5	974.1	881.1	787.0	701.1	633.4	572.3	524.3	489.9
40°	940.6	997.9	1006.2	948.5	854.6	757.7	666.8	599.3	539.7	495.9	461.2
42.5°	874.2	941.2	964.0	917.8	825.7	726.9	636.0	566.1	507.2	464.5	433.8
45°	763.0	851.6	892.7	866.3	777.3	676.2	582.7	511.8	458.3	418.3	394.5
47.5°	658.9	755.8	811.1	801.7	723.5	623.4	531.0	462.9	410.8	378.9	357.6
50°	585.3	684.9	751.6	754.7	684.9	585.7	492.9	428.8	380.9	351.1	333.8
52.5°	521.4	616.4	689.2	705.2	641.8	546.4	458.8	395.1	352.8	325.5	309.9
55°	437.9	518.2	599.0	628.3	577.4	486.9	405.8	349.6	310.0	291.1	277.6
57.5°	364.1	431.0	505.5	538.1	506.6	429.2	353.1	304.4	272.3	255.7	245.3
60°	325.1	377.9	444.2	483.1	456.0	387.0	320.5	274.2	247.8	233.1	223.3
62.5°	288.9	335.7	391.7	427.3	412.5	347.4	288.0	247.0	224.3	210.5	203.4
65°	238.3	275.3	318.7	351.5	341.7	292.3	243.7	208.5	190.5	179.6	173.9
67.5°	196.2	223.0	253.1	281.8	273.9	238.8	199.9	172.5	159.0	149.6	146.2
70°	169.8	190.1	216.8	239.8	233.5	204.8	173.9	150.5	138.8	130.9	127.4
72.5°	144.4	161.1	181.6	200.4	196.0	172.2	146.4	128.8	119.8	112.5	109.7
75°	109.0	121.8	134.3	146.7	145.6	127.1	112.0	98.5	91.3	85.6	84.5
77.5°	80.5	87.7	96.1	103.5	101.5	90.9	79.1	71.3	66.0	62.2	61.6
80°	61.5	65.6	71.7	77.0	74.3	69.8	60.4	54.7	50.9	47.2	45.6
82.5°	44.5	48.8	52.3	55.2	53.2	49.0	43.1	39.3	37.1	34.4	33.8
85°	23.4	25.7	27.2	27.9	27.2	24.5	21.9	20.4	18.5	17.4	17.0
87.5°	14.1	13.1	12.1	12.0	10.6	10.0	8.3	6.9	7.1	7.3	7.3
90°	25.4	20.5	15.6	11.7	9.1	6.4	3.7	1.0	3.7	6.4	9.1
92.5°	29.7	28.6	27.4	25.9	23.8	21.9	19.9	18.0	19.9	21.9	23.8
95°	63.6	63.1	62.7	61.4	59.1	56.9	54.6	52.4	54.6	56.9	59.1
97.5°	106.7	105.9	105.0	103.6	101.7	99.7	97.8	95.7	97.8	99.7	101.7
100°	137.7	137.0	136.4	135.1	133.4	131.6	129.8	127.9	129.8	131.6	133.4
102.5°	170.5	169.6	168.7	167.5	166.1	164.7	163.3	161.9	163.3	164.7	166.1
105°	220.9	220.4	219.9	219.3	218.7	218.0	217.3	216.7	217.3	218.0	218.7
107.5°	276.3	276.3	276.3	275.9	274.9	273.9	272.9	271.9	272.9	273.9	274.9
110°	313.5	313.5	313.5	312.8	311.4	310.0	308.7	307.4	308.7	310.0	311.4



TEST NUMBER: P331313-840

CATALOG NUMBER: SA2XXDIP-C485D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	351.6	351.8	352.0	351.4	350.1	348.8	347.4	346.1	347.4	348.8	350.1
115°	408.1	408.5	408.9	408.5	407.2	405.8	404.5	403.1	404.5	405.8	407.2
117.5°	464.8	466.2	467.4	467.2	465.3	463.5	461.7	460.0	461.7	463.5	465.3
120°	501.4	503.2	505.0	505.0	503.2	501.4	499.7	497.9	499.7	501.4	503.2
122.5°	539.1	540.3	541.6	541.1	539.0	536.8	534.6	532.5	534.6	536.8	539.0
125°	593.9	594.6	595.3	594.6	592.6	590.6	588.5	586.5	588.5	590.6	592.6
127.5°	648.6	649.4	650.3	649.3	646.8	644.3	641.7	639.1	641.7	644.3	646.8
130°	684.2	684.6	685.1	683.9	681.0	678.0	675.1	672.2	675.1	678.0	681.0
132.5°	720.2	720.1	720.0	718.8	716.4	714.1	711.7	709.3	711.7	714.1	716.4
135°	771.0	770.6	770.2	768.7	766.3	763.8	761.3	758.9	761.3	763.8	766.3
137.5°	821.6	821.0	820.4	819.1	817.1	815.1	813.0	811.1	813.0	815.1	817.1
140°	854.3	853.2	852.1	850.6	848.6	846.6	844.6	842.5	844.6	846.6	848.6
142.5°	885.8	884.9	884.2	882.8	880.8	878.8	876.8	874.7	876.8	878.8	880.8
145°	931.5	930.2	928.9	927.4	925.8	924.2	922.7	921.1	922.7	924.2	925.8
147.5°	973.1	972.3	971.4	970.0	968.1	966.2	964.3	962.4	964.3	966.2	968.1
150°	999.0	998.0	997.1	996.0	994.7	993.3	992.0	990.7	992.0	993.3	994.7
152.5°	1024.4	1023.3	1022.3	1021.1	1019.7	1018.3	1017.0	1015.6	1017.0	1018.3	1019.7
155°	1057.8	1057.2	1056.5	1055.8	1055.2	1054.5	1053.8	1053.2	1053.8	1054.5	1055.2
157.5°	1088.2	1087.8	1087.4	1087.0	1086.5	1086.1	1085.6	1085.2	1085.6	1086.1	1086.5
160°	1107.1	1106.9	1106.7	1106.3	1105.9	1105.4	1105.0	1104.6	1105.0	1105.4	1105.9
162.5°	1123.3	1123.1	1122.8	1122.7	1122.6	1122.5	1122.4	1122.3	1122.4	1122.5	1122.6
165°	1144.9	1144.9	1144.9	1145.0	1145.2	1145.4	1145.7	1145.9	1145.7	1145.4	1145.2
167.5°	1162.5	1162.6	1162.6	1163.0	1163.6	1164.3	1165.0	1165.6	1165.0	1164.3	1163.6
170°	1172.6	1172.8	1173.0	1173.4	1174.1	1174.8	1175.4	1176.1	1175.4	1174.8	1174.1
172.5°	1179.7	1180.0	1180.2	1180.6	1181.3	1182.0	1182.7	1183.4	1182.7	1182.0	1181.3
175°	1188.1	1188.5	1189.0	1189.5	1190.2	1190.8	1191.5	1192.2	1191.5	1190.8	1190.2
177.5°	1192.5	1192.9	1193.3	1193.7	1194.3	1194.8	1195.3	1195.9	1195.3	1194.8	1194.3
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



TEST NUMBER: P331313-840

CATALOG NUMBER: SA2XXDIP-C485D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	968.4	966.5	960.2	956.8	951.5	946.3	943.0	944.5	945.7	945.1	944.2
5°	940.6	933.4	922.5	913.0	906.3	893.8	888.6	886.0	883.6	881.0	878.4
7.5°	907.6	896.3	880.6	867.2	854.4	839.0	830.2	824.9	819.4	813.4	808.2
10°	884.0	868.2	851.6	832.7	817.7	803.7	791.2	782.9	775.4	768.2	763.0
12.5°	859.3	841.0	820.5	794.8	778.1	758.1	756.3	741.6	729.8	725.4	719.2
15°	819.9	794.3	768.2	737.7	724.5	706.4	695.1	683.8	673.6	666.4	664.5
17.5°	775.2	741.9	716.1	694.2	672.6	654.0	643.6	634.5	626.1	616.5	615.3
20°	741.0	712.5	684.2	664.9	642.7	623.8	611.0	601.9	594.7	589.1	584.2
22.5°	708.8	677.4	651.6	630.5	608.5	593.3	583.2	574.5	568.6	562.3	557.6
25°	657.0	632.5	604.2	580.5	562.3	552.5	544.2	536.6	532.9	528.8	523.5
27.5°	611.7	584.4	558.0	539.6	523.6	514.9	509.1	503.9	500.4	498.0	494.9
30°	579.7	552.1	531.4	513.3	500.1	491.4	487.7	484.6	480.5	479.0	477.5
32.5°	548.9	524.1	506.3	490.7	478.1	472.4	469.0	466.3	463.0	461.5	458.5
35°	505.3	484.6	467.3	458.6	448.4	443.5	440.9	437.1	434.1	432.6	432.2
37.5°	464.4	446.4	434.9	423.8	419.5	416.5	412.9	410.3	409.4	409.2	408.8
40°	437.9	423.1	412.9	403.9	402.0	397.5	394.5	392.2	392.2	392.6	392.2
42.5°	413.7	400.5	391.5	383.7	381.5	378.8	375.8	375.7	376.3	377.5	376.3
45°	377.2	367.7	361.3	357.5	353.4	350.7	350.3	351.5	351.8	352.2	353.4
47.5°	343.5	337.2	331.4	327.3	325.5	325.0	324.6	326.5	328.3	329.0	330.7
50°	323.6	316.4	311.5	308.9	307.4	306.6	307.4	309.6	311.1	313.1	314.2
52.5°	301.2	296.2	292.9	290.7	290.1	290.6	290.7	293.4	295.8	296.4	297.0
55°	270.4	266.6	265.9	262.5	264.0	263.6	265.5	267.0	269.2	271.6	272.0
57.5°	239.6	236.6	234.6	234.9	235.3	237.0	238.5	241.3	243.7	246.0	246.3
60°	219.1	217.6	216.5	216.5	217.2	219.5	221.4	224.0	225.5	227.0	228.1
62.5°	200.5	198.9	197.7	198.3	200.4	201.7	203.9	205.3	206.8	208.3	208.8
65°	170.9	170.1	171.3	172.0	172.4	174.2	176.9	178.0	179.6	180.3	182.9
67.5°	143.6	143.8	143.6	144.7	146.8	147.3	149.8	152.5	152.8	154.2	155.9
70°	125.2	125.9	126.7	127.4	129.4	130.1	132.0	133.1	134.6	135.7	136.9
72.5°	108.4	108.5	109.3	109.1	110.7	112.3	113.9	115.0	116.5	118.0	119.1
75°	83.3	83.3	84.1	84.5	86.3	88.3	87.9	88.7	90.2	91.7	92.4
77.5°	60.9	60.1	60.9	61.2	61.8	63.4	63.7	64.8	66.6	66.0	66.9
80°	46.4	45.2	46.4	46.8	46.8	48.7	48.7	49.4	50.5	49.4	50.5
82.5°	33.1	32.6	33.4	33.5	34.1	34.1	34.7	34.9	36.1	35.5	36.1
85°	16.6	16.3	16.6	16.3	16.6	17.0	17.0	16.6	16.6	17.4	16.3
87.5°	7.5	8.0	8.6	9.6	10.3	11.0	10.6	10.5	10.4	9.7	9.7
90°	11.7	15.6	20.5	25.4	30.3	35.2	34.8	34.3	33.9	33.5	33.3
92.5°	25.9	27.4	28.6	29.7	30.9	32.0	32.1	32.2	32.3	32.4	32.5
95°	61.4	62.7	63.1	63.6	64.0	64.5	64.5	64.5	64.5	64.5	64.2
97.5°	103.6	105.0	105.9	106.7	107.6	108.5	108.5	108.5	108.5	108.5	108.5
100°	135.1	136.4	137.0	137.7	138.5	139.1	139.1	139.1	139.1	139.1	139.0
102.5°	167.5	168.7	169.6	170.5	171.3	172.2	172.3	172.5	172.7	172.9	172.8
105°	219.3	219.9	220.4	220.9	221.3	221.7	222.2	222.6	223.1	223.5	223.7
107.5°	275.9	276.3	276.3	276.3	276.3	276.3	276.5	276.7	276.9	277.0	276.6
110°	312.8	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.1



TEST NUMBER: P331313-840

CATALOG NUMBER: SA2XXDIP-C485D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	351.4	352.0	351.8	351.6	351.5	351.3	350.8	350.2	349.7	349.2	348.6
115°	408.5	408.9	408.5	408.1	407.6	407.2	407.0	406.7	406.5	406.3	405.8
117.5°	467.2	467.4	466.2	464.8	463.6	462.4	461.8	461.3	460.8	460.2	459.6
120°	505.0	505.0	503.2	501.4	499.7	497.9	497.9	497.9	497.9	497.9	497.6
122.5°	541.1	541.6	540.3	539.1	537.9	536.5	536.0	535.4	534.9	534.4	533.9
125°	594.6	595.3	594.6	593.9	593.3	592.6	591.9	591.3	590.6	589.9	589.5
127.5°	649.3	650.3	649.4	648.6	647.8	647.0	646.2	645.4	644.6	643.8	643.0
130°	683.9	685.1	684.6	684.2	683.8	683.3	682.9	682.4	682.0	681.5	680.9
132.5°	718.8	720.0	720.1	720.2	720.2	720.3	719.4	718.4	717.4	716.4	715.6
135°	768.7	770.2	770.6	771.0	771.5	771.9	771.7	771.5	771.3	771.0	770.6
137.5°	819.1	820.4	821.0	821.6	822.2	822.7	822.6	822.4	822.2	822.0	821.5
140°	850.6	852.1	853.2	854.3	855.6	856.7	856.7	856.7	856.7	856.7	856.2
142.5°	882.8	884.2	884.9	885.8	886.5	887.3	887.5	887.7	887.8	888.0	887.7
145°	927.4	928.9	930.2	931.5	932.9	934.2	934.4	934.6	934.9	935.1	934.8
147.5°	970.0	971.4	972.3	973.1	974.0	974.9	975.4	975.9	976.4	976.9	976.7
150°	996.0	997.1	998.0	999.0	999.9	1000.8	1001.4	1002.1	1002.8	1003.4	1003.4
152.5°	1021.1	1022.3	1023.3	1024.4	1025.4	1026.5	1027.4	1028.2	1029.1	1030.0	1030.0
155°	1055.8	1056.5	1057.2	1057.8	1058.5	1059.1	1060.4	1061.5	1062.6	1063.7	1063.9
157.5°	1087.0	1087.4	1087.8	1088.2	1088.6	1089.0	1090.6	1092.1	1093.6	1095.1	1095.3
160°	1106.3	1106.7	1106.9	1107.1	1107.3	1107.5	1108.9	1110.2	1111.6	1113.0	1113.2
162.5°	1122.7	1122.8	1123.1	1123.3	1123.5	1123.7	1125.2	1126.7	1128.2	1129.7	1130.0
165°	1145.0	1144.9	1144.9	1144.9	1144.9	1144.9	1146.4	1148.0	1149.5	1151.1	1151.3
167.5°	1163.0	1162.6	1162.6	1162.5	1162.5	1162.4	1164.0	1165.5	1167.1	1168.6	1168.8
170°	1173.4	1173.0	1172.8	1172.6	1172.3	1172.0	1173.7	1175.2	1176.8	1178.3	1178.4
172.5°	1180.6	1180.2	1180.0	1179.7	1179.5	1179.3	1180.9	1182.5	1184.1	1185.6	1185.7
175°	1189.5	1189.0	1188.5	1188.1	1187.6	1187.2	1188.7	1190.3	1191.8	1193.5	1193.6
177.5°	1193.7	1193.3	1192.9	1192.5	1192.1	1191.8	1192.9	1194.0	1195.1	1196.1	1196.1
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



TEST NUMBER: P331313-840

CATALOG NUMBER: SA2XXDIP-C485D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	941.2	940.6	940.6	937.9	940.6	940.6	941.2	944.2	945.1	945.7	944.5
5°	873.1	871.9	870.1	871.9	870.1	871.9	873.1	878.4	881.0	883.6	886.0
7.5°	805.8	801.2	800.5	796.1	800.5	801.2	805.8	808.2	813.4	819.4	824.9
10°	756.6	753.6	753.2	746.0	753.2	753.6	756.6	763.0	768.2	775.4	782.9
12.5°	719.1	711.9	713.4	709.2	713.4	711.9	719.1	719.2	725.4	729.8	741.6
15°	654.3	654.3	652.9	646.4	652.9	654.3	654.3	664.5	666.4	673.6	683.8
17.5°	607.8	607.0	603.4	605.2	603.4	607.0	607.8	615.3	616.5	626.1	634.5
20°	580.1	577.7	573.3	573.3	573.3	577.7	580.1	584.2	589.1	594.7	601.9
22.5°	553.8	553.6	548.9	550.4	548.9	553.6	553.8	557.6	562.3	568.6	574.5
25°	523.1	520.1	517.9	519.0	517.9	520.1	523.1	523.5	528.8	532.9	536.6
27.5°	494.0	492.3	492.2	489.1	492.2	492.3	494.0	494.9	498.0	500.4	503.9
30°	477.1	473.3	474.0	472.2	474.0	473.3	477.1	477.5	479.0	480.5	484.6
32.5°	457.8	456.5	455.7	454.0	455.7	456.5	457.8	458.5	461.5	463.0	466.3
35°	431.4	431.8	429.9	430.7	429.9	431.8	431.4	432.2	432.6	434.1	437.1
37.5°	408.5	409.7	408.8	409.0	408.8	409.7	408.5	408.8	409.2	409.4	410.3
40°	393.3	393.3	393.3	394.5	393.3	393.3	393.3	392.2	392.6	392.2	392.2
42.5°	378.9	378.3	377.7	377.6	377.7	378.3	378.9	376.3	377.5	376.3	375.7
45°	354.2	355.3	355.7	353.8	355.7	355.3	354.2	353.4	352.2	351.8	351.5
47.5°	331.7	331.8	331.7	333.4	331.7	331.8	331.7	330.7	329.0	328.3	326.5
50°	316.1	315.3	316.1	315.3	316.1	315.3	316.1	314.2	313.1	311.1	309.6
52.5°	299.4	299.6	299.1	299.0	299.1	299.6	299.4	297.0	296.4	295.8	293.4
55°	273.5	274.2	273.8	273.8	273.8	274.2	273.5	272.0	271.6	269.2	267.0
57.5°	246.5	247.2	247.7	246.0	247.7	247.2	246.5	246.3	246.0	243.7	241.3
60°	227.8	229.6	229.3	228.5	229.3	229.6	227.8	228.1	227.0	225.5	224.0
62.5°	210.6	211.3	211.2	211.1	211.2	211.3	210.6	208.8	208.3	206.8	205.3
65°	184.0	184.8	183.7	184.8	183.7	184.8	184.0	182.9	180.3	179.6	178.0
67.5°	155.4	155.7	156.5	157.0	156.5	155.7	155.4	155.9	154.2	152.8	152.5
70°	137.6	137.2	138.5	139.6	138.5	137.2	137.6	136.9	135.7	134.6	133.1
72.5°	119.0	119.8	119.4	120.3	119.4	119.8	119.0	119.1	118.0	116.5	115.0
75°	91.7	92.8	92.4	93.5	92.4	92.8	91.7	92.4	91.7	90.2	88.7
77.5°	66.2	66.3	66.2	66.9	66.2	66.3	66.2	66.9	66.0	66.6	64.8
80°	50.5	49.8	49.0	50.5	49.0	49.8	50.5	50.5	49.4	50.5	49.4
82.5°	35.1	35.6	34.8	34.8	34.8	35.6	35.1	36.1	35.5	36.1	34.9
85°	16.3	15.9	15.0	15.0	15.0	15.9	16.3	16.3	17.4	16.6	16.6
87.5°	9.7	9.5	9.5	9.3	9.5	9.5	9.7	9.7	9.7	10.4	10.5
90°	33.6	33.8	34.0	34.2	34.0	33.8	33.6	33.3	33.5	33.9	34.3
92.5°	32.5	32.5	32.6	32.6	32.6	32.5	32.5	32.5	32.4	32.3	32.2
95°	63.8	63.4	62.9	62.5	62.9	63.4	63.8	64.2	64.5	64.5	64.5
97.5°	108.4	108.4	108.3	108.3	108.3	108.4	108.4	108.5	108.5	108.5	108.5
100°	138.8	138.6	138.3	138.0	138.3	138.6	138.8	139.0	139.1	139.1	139.1
102.5°	172.6	172.4	172.2	172.0	172.2	172.4	172.6	172.8	172.9	172.7	172.5
105°	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.7	223.5	223.1	222.6
107.5°	275.6	274.6	273.6	272.5	273.6	274.6	275.6	276.6	277.0	276.9	276.7
110°	312.5	311.7	311.0	310.4	311.0	311.7	312.5	313.1	313.5	313.5	313.5



TEST NUMBER: P331313-840

CATALOG NUMBER: SA2XXDIP-C485D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	348.2	347.7	347.2	346.7	347.2	347.7	348.2	348.6	349.2	349.7	350.2
115°	405.2	404.5	403.7	403.1	403.7	404.5	405.2	405.8	406.3	406.5	406.7
117.5°	459.0	458.3	457.6	457.0	457.6	458.3	459.0	459.6	460.2	460.8	461.3
120°	496.9	496.1	495.5	494.8	495.5	496.1	496.9	497.6	497.9	497.9	497.9
122.5°	533.4	532.9	532.4	531.9	532.4	532.9	533.4	533.9	534.4	534.9	535.4
125°	589.3	589.0	588.8	588.5	588.8	589.0	589.3	589.5	589.9	590.6	591.3
127.5°	642.3	641.6	640.9	640.2	640.9	641.6	642.3	643.0	643.8	644.6	645.4
130°	679.9	679.0	678.1	677.2	678.1	679.0	679.9	680.9	681.5	682.0	682.4
132.5°	714.9	714.2	713.5	712.8	713.5	714.2	714.9	715.6	716.4	717.4	718.4
135°	769.9	769.3	768.6	767.9	768.6	769.3	769.9	770.6	771.0	771.3	771.5
137.5°	820.6	819.7	818.8	817.9	818.8	819.7	820.6	821.5	822.0	822.2	822.4
140°	855.3	854.3	853.5	852.6	853.5	854.3	855.3	856.2	856.7	856.7	856.7
142.5°	886.8	885.9	884.9	884.0	884.9	885.9	886.8	887.7	888.0	887.8	887.7
145°	933.9	933.0	932.1	931.2	932.1	933.0	933.9	934.8	935.1	934.9	934.6
147.5°	975.9	975.0	974.2	973.3	974.2	975.0	975.9	976.7	976.9	976.4	975.9
150°	1002.8	1002.1	1001.4	1000.8	1001.4	1002.1	1002.8	1003.4	1003.4	1002.8	1002.1
152.5°	1029.1	1028.2	1027.4	1026.5	1027.4	1028.2	1029.1	1030.0	1030.0	1029.1	1028.2
155°	1063.2	1062.6	1061.9	1061.2	1061.9	1062.6	1063.2	1063.9	1063.7	1062.6	1061.5
157.5°	1094.3	1093.2	1092.1	1091.1	1092.1	1093.2	1094.3	1095.3	1095.1	1093.6	1092.1
160°	1112.3	1111.4	1110.4	1109.5	1110.4	1111.4	1112.3	1113.2	1113.0	1111.6	1110.2
162.5°	1128.9	1127.8	1126.8	1125.7	1126.8	1127.8	1128.9	1130.0	1129.7	1128.2	1126.7
165°	1150.2	1149.1	1148.0	1146.9	1148.0	1149.1	1150.2	1151.3	1151.1	1149.5	1148.0
167.5°	1167.7	1166.5	1165.4	1164.2	1165.4	1166.5	1167.7	1168.8	1168.6	1167.1	1165.5
170°	1177.1	1175.8	1174.4	1173.1	1174.4	1175.8	1177.1	1178.4	1178.3	1176.8	1175.2
172.5°	1184.4	1183.1	1181.6	1180.3	1181.6	1183.1	1184.4	1185.7	1185.6	1184.1	1182.5
175°	1192.2	1190.8	1189.5	1188.2	1189.5	1190.8	1192.2	1193.6	1193.5	1191.8	1190.3
177.5°	1195.1	1194.0	1192.9	1191.8	1192.9	1194.0	1195.1	1196.1	1196.1	1195.1	1194.0
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



TEST NUMBER: P331313-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	943.0	946.3	951.5	956.8	960.2	966.5	968.4	971.4	974.1	980.4	987.0
5°	888.6	893.8	906.3	913.0	922.5	933.4	940.6	948.2	956.4	970.8	984.0
7.5°	830.2	839.0	854.4	867.2	880.6	896.3	907.6	922.5	934.8	955.0	974.4
10°	791.2	803.7	817.7	832.7	851.6	868.2	884.0	902.9	918.0	942.1	964.7
12.5°	756.3	758.1	778.1	794.8	820.5	841.0	859.3	883.5	898.4	927.1	950.9
15°	695.1	706.4	724.5	737.7	768.2	794.3	819.9	845.2	862.1	897.6	928.9
17.5°	643.6	654.0	672.6	694.2	716.1	741.9	775.2	801.8	824.9	865.4	902.4
20°	611.0	623.8	642.7	664.9	684.2	712.5	741.0	771.6	796.5	842.1	885.6
22.5°	583.2	593.3	608.5	630.5	651.6	677.4	708.8	742.0	768.2	817.4	861.4
25°	544.2	552.5	562.3	580.5	604.2	632.5	657.0	693.6	731.6	777.7	830.8
27.5°	509.1	514.9	523.6	539.6	558.0	584.4	611.7	646.3	684.7	734.6	790.7
30°	487.7	491.4	500.1	513.3	531.4	552.1	579.7	612.9	652.1	702.7	758.4
32.5°	469.0	472.4	478.1	490.7	506.3	524.1	548.9	582.1	619.5	669.1	730.9
35°	440.9	443.5	448.4	458.6	467.3	484.6	505.3	535.5	570.6	618.1	682.3
37.5°	412.9	416.5	419.5	423.8	434.9	446.4	464.4	489.9	524.3	572.3	633.4
40°	394.5	397.5	402.0	403.9	412.9	423.1	437.9	461.2	495.9	539.7	599.3
42.5°	375.8	378.8	381.5	383.7	391.5	400.5	413.7	433.8	464.5	507.2	566.1
45°	350.3	350.7	353.4	357.5	361.3	367.7	377.2	394.5	418.3	458.3	511.8
47.5°	324.6	325.0	325.5	327.3	331.4	337.2	343.5	357.6	378.9	410.8	462.9
50°	307.4	306.6	307.4	308.9	311.5	316.4	323.6	333.8	351.1	380.9	428.8
52.5°	290.7	290.6	290.1	290.7	292.9	296.2	301.2	309.9	325.5	352.8	395.1
55°	265.5	263.6	264.0	262.5	265.9	266.6	270.4	277.6	291.1	310.0	349.6
57.5°	238.5	237.0	235.3	234.9	234.6	236.6	239.6	245.3	255.7	272.3	304.4
60°	221.4	219.5	217.2	216.5	216.5	217.6	219.1	223.3	233.1	247.8	274.2
62.5°	203.9	201.7	200.4	198.3	197.7	198.9	200.5	203.4	210.5	224.3	247.0
65°	176.9	174.2	172.4	172.0	171.3	170.1	170.9	173.9	179.6	190.5	208.5
67.5°	149.8	147.3	146.8	144.7	143.6	143.8	143.6	146.2	149.6	159.0	172.5
70°	132.0	130.1	129.4	127.4	126.7	125.9	125.2	127.4	130.9	138.8	150.5
72.5°	113.9	112.3	110.7	109.1	109.3	108.5	108.4	109.7	112.5	119.8	128.8
75°	87.9	88.3	86.3	84.5	84.1	83.3	83.3	84.5	85.6	91.3	98.5
77.5°	63.7	63.4	61.8	61.2	60.9	60.1	60.9	61.6	62.2	66.0	71.3
80°	48.7	48.7	46.8	46.8	46.4	45.2	46.4	45.6	47.2	50.9	54.7
82.5°	34.7	34.1	34.1	33.5	33.4	32.6	33.1	33.8	34.4	37.1	39.3
85°	17.0	17.0	16.6	16.3	16.6	16.3	16.6	17.0	17.4	18.5	20.4
87.5°	10.6	11.0	10.3	9.6	8.6	8.0	7.5	7.3	7.3	7.1	6.9
90°	34.8	35.2	30.3	25.4	20.5	15.6	11.7	9.1	6.4	3.7	1.0
92.5°	32.1	32.0	30.9	29.7	28.6	27.4	25.9	23.8	21.9	19.9	18.0
95°	64.5	64.5	64.0	63.6	63.1	62.7	61.4	59.1	56.9	54.6	52.4
97.5°	108.5	108.5	107.6	106.7	105.9	105.0	103.6	101.7	99.7	97.8	95.7
100°	139.1	139.1	138.5	137.7	137.0	136.4	135.1	133.4	131.6	129.8	127.9
102.5°	172.3	172.2	171.3	170.5	169.6	168.7	167.5	166.1	164.7	163.3	161.9
105°	222.2	221.7	221.3	220.9	220.4	219.9	219.3	218.7	218.0	217.3	216.7
107.5°	276.5	276.3	276.3	276.3	276.3	276.3	275.9	274.9	273.9	272.9	271.9
110°	313.5	313.5	313.5	313.5	313.5	313.5	312.8	311.4	310.0	308.7	307.4



TEST NUMBER: P331313-840

CATALOG NUMBER: SA2XXDIP-C485D925U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	350.8	351.3	351.5	351.6	351.8	352.0	351.4	350.1	348.8	347.4	346.1
115°	407.0	407.2	407.6	408.1	408.5	408.9	408.5	407.2	405.8	404.5	403.1
117.5°	461.8	462.4	463.6	464.8	466.2	467.4	467.2	465.3	463.5	461.7	460.0
120°	497.9	497.9	499.7	501.4	503.2	505.0	505.0	503.2	501.4	499.7	497.9
122.5°	536.0	536.5	537.9	539.1	540.3	541.6	541.1	539.0	536.8	534.6	532.5
125°	591.9	592.6	593.3	593.9	594.6	595.3	594.6	592.6	590.6	588.5	586.5
127.5°	646.2	647.0	647.8	648.6	649.4	650.3	649.3	646.8	644.3	641.7	639.1
130°	682.9	683.3	683.8	684.2	684.6	685.1	683.9	681.0	678.0	675.1	672.2
132.5°	719.4	720.3	720.2	720.2	720.1	720.0	718.8	716.4	714.1	711.7	709.3
135°	771.7	771.9	771.5	771.0	770.6	770.2	768.7	766.3	763.8	761.3	758.9
137.5°	822.6	822.7	822.2	821.6	821.0	820.4	819.1	817.1	815.1	813.0	811.1
140°	856.7	856.7	855.6	854.3	853.2	852.1	850.6	848.6	846.6	844.6	842.5
142.5°	887.5	887.3	886.5	885.8	884.9	884.2	882.8	880.8	878.8	876.8	874.7
145°	934.4	934.2	932.9	931.5	930.2	928.9	927.4	925.8	924.2	922.7	921.1
147.5°	975.4	974.9	974.0	973.1	972.3	971.4	970.0	968.1	966.2	964.3	962.4
150°	1001.4	1000.8	999.9	999.0	998.0	997.1	996.0	994.7	993.3	992.0	990.7
152.5°	1027.4	1026.5	1025.4	1024.4	1023.3	1022.3	1021.1	1019.7	1018.3	1017.0	1015.6
155°	1060.4	1059.1	1058.5	1057.8	1057.2	1056.5	1055.8	1055.2	1054.5	1053.8	1053.2
157.5°	1090.6	1089.0	1088.6	1088.2	1087.8	1087.4	1087.0	1086.5	1086.1	1085.6	1085.2
160°	1108.9	1107.5	1107.3	1107.1	1106.9	1106.7	1106.3	1105.9	1105.4	1105.0	1104.6
162.5°	1125.2	1123.7	1123.5	1123.3	1123.1	1122.8	1122.7	1122.6	1122.5	1122.4	1122.3
165°	1146.4	1144.9	1144.9	1144.9	1144.9	1144.9	1145.0	1145.2	1145.4	1145.7	1145.9
167.5°	1164.0	1162.4	1162.5	1162.5	1162.6	1162.6	1163.0	1163.6	1164.3	1165.0	1165.6
170°	1173.7	1172.0	1172.3	1172.6	1172.8	1173.0	1173.4	1174.1	1174.8	1175.4	1176.1
172.5°	1180.9	1179.3	1179.5	1179.7	1180.0	1180.2	1180.6	1181.3	1182.0	1182.7	1183.4
175°	1188.7	1187.2	1187.6	1188.1	1188.5	1189.0	1189.5	1190.2	1190.8	1191.5	1192.2
177.5°	1192.9	1191.8	1192.1	1192.5	1192.9	1193.3	1193.7	1194.3	1194.8	1195.3	1195.9
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



TEST NUMBER: P331313-840
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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	986.4	988.0	992.8	997.6	1003.0	1004.5	1006.9	1004.8	1004.2	1010.0	1014.2
5°	989.3	996.0	1009.3	1021.3	1031.5	1038.6	1046.2	1049.2	1054.9	1062.8	1072.6
7.5°	986.0	999.3	1020.1	1037.6	1056.7	1070.6	1081.4	1090.6	1101.7	1116.7	1133.1
10°	982.5	1000.2	1025.4	1046.9	1070.4	1088.0	1102.8	1117.1	1133.7	1154.5	1175.9
12.5°	975.8	996.8	1028.4	1053.9	1083.9	1101.4	1121.2	1152.1	1169.9	1198.8	1229.0
15°	962.5	985.8	1030.0	1061.3	1095.2	1128.4	1165.0	1194.4	1223.9	1240.8	1283.4
17.5°	942.6	976.9	1025.8	1062.4	1105.5	1157.7	1198.8	1232.2	1266.2	1293.6	1315.0
20°	926.7	964.0	1019.8	1063.6	1114.8	1171.0	1218.2	1252.1	1281.5	1304.5	1317.8
22.5°	906.5	953.4	1007.7	1059.0	1124.5	1180.1	1229.6	1256.4	1280.9	1292.1	1297.2
25°	874.5	931.2	992.6	1055.2	1129.1	1188.0	1233.2	1249.5	1256.7	1245.7	1227.6
27.5°	840.3	903.3	975.2	1048.1	1126.3	1182.9	1215.3	1212.7	1200.6	1165.2	1136.9
30°	814.7	884.0	961.3	1040.9	1119.3	1174.4	1193.3	1174.4	1146.9	1107.3	1066.9
32.5°	787.8	859.6	946.5	1030.7	1106.7	1155.1	1159.2	1126.7	1084.1	1039.2	988.8
35°	747.1	824.9	918.7	1007.7	1079.7	1110.3	1092.2	1034.9	984.3	922.9	854.2
37.5°	701.1	787.0	881.1	974.1	1039.5	1047.4	1002.5	942.1	870.8	798.6	717.8
40°	666.8	757.7	854.6	948.5	1006.2	997.9	940.6	874.2	789.3	701.1	626.0
42.5°	636.0	726.9	825.7	917.8	964.0	941.2	874.2	792.7	701.6	618.4	549.8
45°	582.7	676.2	777.3	866.3	892.7	851.6	763.0	672.5	582.7	513.3	459.0
47.5°	531.0	623.4	723.5	801.7	811.1	755.8	658.9	565.8	488.7	432.1	393.8
50°	492.9	585.7	684.9	754.7	751.6	684.9	585.3	496.7	432.2	386.6	360.9
52.5°	458.8	546.4	641.8	705.2	689.2	616.4	521.4	442.7	389.7	354.0	330.7
55°	405.8	486.9	577.4	628.3	599.0	518.2	437.9	374.5	335.3	308.5	290.4
57.5°	353.1	429.2	506.6	538.1	505.5	431.0	364.1	318.1	288.6	268.7	257.0
60°	320.5	387.0	456.0	483.1	444.2	377.9	325.1	284.0	260.2	244.0	233.5
62.5°	288.0	347.4	412.5	427.3	391.7	335.7	288.9	254.7	235.2	220.8	210.9
65°	243.7	292.3	341.7	351.5	318.7	275.3	238.3	216.1	198.7	188.2	180.3
67.5°	199.9	238.8	273.9	281.8	253.1	223.0	196.2	176.9	165.1	156.3	149.7
70°	173.9	204.8	233.5	239.8	216.8	190.1	169.8	154.2	143.7	136.1	129.8
72.5°	146.4	172.2	196.0	200.4	181.6	161.1	144.4	132.2	122.9	118.1	111.9
75°	112.0	127.1	145.6	146.7	134.3	121.8	109.0	101.1	96.1	90.2	87.2
77.5°	79.1	90.9	101.5	103.5	96.1	87.7	80.5	74.2	70.1	67.3	64.5
80°	60.4	69.8	74.3	77.0	71.7	65.6	61.5	57.4	54.7	52.8	50.9
82.5°	43.1	49.0	53.2	55.2	52.3	48.8	44.5	42.2	40.2	38.6	38.0
85°	21.9	24.5	27.2	27.9	27.2	25.7	23.4	23.4	22.2	21.9	21.9
87.5°	8.3	10.0	10.6	12.0	12.1	13.1	14.1	14.8	15.6	15.1	14.7
90°	3.7	6.4	9.1	11.7	15.6	20.5	25.4	30.3	35.2	34.8	34.3
92.5°	19.9	21.9	23.8	25.9	27.4	28.6	29.7	30.9	32.0	32.1	32.2
95°	54.6	56.9	59.1	61.4	62.7	63.1	63.6	64.0	64.5	64.5	64.5
97.5°	97.8	99.7	101.7	103.6	105.0	105.9	106.7	107.6	108.5	108.5	108.5
100°	129.8	131.6	133.4	135.1	136.4	137.0	137.7	138.5	139.1	139.1	139.1
102.5°	163.3	164.7	166.1	167.5	168.7	169.6	170.5	171.3	172.2	172.3	172.5
105°	217.3	218.0	218.7	219.3	219.9	220.4	220.9	221.3	221.7	222.2	222.6
107.5°	272.9	273.9	274.9	275.9	276.3	276.3	276.3	276.3	276.3	276.5	276.7
110°	308.7	310.0	311.4	312.8	313.5	313.5	313.5	313.5	313.5	313.5	313.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	347.4	348.8	350.1	351.4	352.0	351.8	351.6	351.5	351.3	350.8	350.2
115°	404.5	405.8	407.2	408.5	408.9	408.5	408.1	407.6	407.2	407.0	406.7
117.5°	461.7	463.5	465.3	467.2	467.4	466.2	464.8	463.6	462.4	461.8	461.3
120°	499.7	501.4	503.2	505.0	505.0	503.2	501.4	499.7	497.9	497.9	497.9
122.5°	534.6	536.8	539.0	541.1	541.6	540.3	539.1	537.9	536.5	536.0	535.4
125°	588.5	590.6	592.6	594.6	595.3	594.6	593.9	593.3	592.6	591.9	591.3
127.5°	641.7	644.3	646.8	649.3	650.3	649.4	648.6	647.8	647.0	646.2	645.4
130°	675.1	678.0	681.0	683.9	685.1	684.6	684.2	683.8	683.3	682.9	682.4
132.5°	711.7	714.1	716.4	718.8	720.0	720.1	720.2	720.2	720.3	719.4	718.4
135°	761.3	763.8	766.3	768.7	770.2	770.6	771.0	771.5	771.9	771.7	771.5
137.5°	813.0	815.1	817.1	819.1	820.4	821.0	821.6	822.2	822.7	822.6	822.4
140°	844.6	846.6	848.6	850.6	852.1	853.2	854.3	855.6	856.7	856.7	856.7
142.5°	876.8	878.8	880.8	882.8	884.2	884.9	885.8	886.5	887.3	887.5	887.7
145°	922.7	924.2	925.8	927.4	928.9	930.2	931.5	932.9	934.2	934.4	934.6
147.5°	964.3	966.2	968.1	970.0	971.4	972.3	973.1	974.0	974.9	975.4	975.9
150°	992.0	993.3	994.7	996.0	997.1	998.0	999.0	999.9	1000.8	1001.4	1002.1
152.5°	1017.0	1018.3	1019.7	1021.1	1022.3	1023.3	1024.4	1025.4	1026.5	1027.4	1028.2
155°	1053.8	1054.5	1055.2	1055.8	1056.5	1057.2	1057.8	1058.5	1059.1	1060.4	1061.5
157.5°	1085.6	1086.1	1086.5	1087.0	1087.4	1087.8	1088.2	1088.6	1089.0	1090.6	1092.1
160°	1105.0	1105.4	1105.9	1106.3	1106.7	1106.9	1107.1	1107.3	1107.5	1108.9	1110.2
162.5°	1122.4	1122.5	1122.6	1122.7	1122.8	1123.1	1123.3	1123.5	1123.7	1125.2	1126.7
165°	1145.7	1145.4	1145.2	1145.0	1144.9	1144.9	1144.9	1144.9	1144.9	1146.4	1148.0
167.5°	1165.0	1164.3	1163.6	1163.0	1162.6	1162.6	1162.5	1162.5	1162.4	1164.0	1165.5
170°	1175.4	1174.8	1174.1	1173.4	1173.0	1172.8	1172.6	1172.3	1172.0	1173.7	1175.2
172.5°	1182.7	1182.0	1181.3	1180.6	1180.2	1180.0	1179.7	1179.5	1179.3	1180.9	1182.5
175°	1191.5	1190.8	1190.2	1189.5	1189.0	1188.5	1188.1	1187.6	1187.2	1188.7	1190.3
177.5°	1195.3	1194.8	1194.3	1193.7	1193.3	1192.9	1192.5	1192.1	1191.8	1192.9	1194.0
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1017.8	1022.1	1022.1	1022.7	1027.4	1026.9	1026.6
5°	1083.2	1089.5	1090.4	1097.1	1101.7	1100.1	1096.0
7.5°	1144.8	1156.7	1165.8	1170.8	1176.8	1180.4	1178.8
10°	1193.7	1211.0	1221.5	1228.7	1237.4	1243.9	1241.5
12.5°	1238.0	1258.7	1273.1	1285.5	1286.6	1294.8	1289.2
15°	1307.2	1329.1	1331.3	1340.4	1347.6	1346.8	1347.2
17.5°	1330.0	1337.1	1338.5	1338.7	1338.8	1336.2	1330.4
20°	1321.9	1319.3	1312.8	1308.0	1299.3	1298.1	1290.6
22.5°	1283.2	1274.9	1258.8	1248.2	1234.7	1231.1	1229.0
25°	1207.2	1188.7	1163.1	1138.6	1131.8	1118.6	1122.4
27.5°	1102.9	1074.1	1046.3	1026.4	1008.5	988.7	994.3
30°	1029.6	997.1	958.0	927.8	908.6	889.7	886.3
32.5°	942.1	894.5	850.8	824.3	794.8	782.8	769.8
35°	791.2	744.9	701.5	664.2	642.7	626.0	611.0
37.5°	655.5	602.2	567.1	536.9	521.4	511.9	514.2
40°	571.4	524.6	499.0	475.9	461.6	454.8	456.4
42.5°	503.2	468.2	447.1	431.3	421.2	417.4	416.5
45°	425.8	406.2	388.8	379.8	374.9	370.7	368.1
47.5°	373.0	357.0	347.2	341.8	337.5	333.4	333.3
50°	341.3	330.7	324.0	318.3	314.9	311.8	314.6
52.5°	317.2	307.5	300.7	295.7	294.4	291.6	291.6
55°	281.3	273.8	268.9	264.4	262.2	260.6	258.7
57.5°	248.7	241.6	237.1	234.2	229.9	228.4	227.8
60°	225.5	219.8	215.3	211.6	209.6	206.7	206.7
62.5°	204.1	198.4	194.2	191.4	188.2	187.0	187.3
65°	173.1	168.5	164.4	161.4	160.7	158.4	159.2
67.5°	144.6	141.6	137.2	135.5	134.1	132.9	132.0
70°	125.6	122.6	120.3	118.1	116.9	116.9	116.9
72.5°	109.6	105.9	104.6	101.8	102.4	101.2	100.0
75°	84.8	82.6	81.5	80.3	78.5	78.5	78.5
77.5°	62.4	61.8	60.4	59.2	58.8	58.4	58.6
80°	48.3	47.9	47.2	47.2	46.4	46.0	45.2
82.5°	37.1	36.2	35.6	35.3	35.2	35.1	35.0
85°	21.1	20.4	20.4	20.7	20.0	20.0	20.4
87.5°	14.9	14.8	14.5	14.5	14.9	14.6	14.7
90°	33.9	33.5	33.3	33.6	33.8	34.0	34.2
92.5°	32.3	32.4	32.5	32.5	32.5	32.6	32.6
95°	64.5	64.5	64.2	63.8	63.4	62.9	62.5
97.5°	108.5	108.5	108.5	108.4	108.4	108.3	108.3
100°	139.1	139.1	139.0	138.8	138.6	138.3	138.0
102.5°	172.7	172.9	172.8	172.6	172.4	172.2	172.0
105°	223.1	223.5	223.7	223.7	223.7	223.7	223.7
107.5°	276.9	277.0	276.6	275.6	274.6	273.6	272.5
110°	313.5	313.5	313.1	312.5	311.7	311.0	310.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	349.7	349.2	348.6	348.2	347.7	347.2	346.7
115°	406.5	406.3	405.8	405.2	404.5	403.7	403.1
117.5°	460.8	460.2	459.6	459.0	458.3	457.6	457.0
120°	497.9	497.9	497.6	496.9	496.1	495.5	494.8
122.5°	534.9	534.4	533.9	533.4	532.9	532.4	531.9
125°	590.6	589.9	589.5	589.3	589.0	588.8	588.5
127.5°	644.6	643.8	643.0	642.3	641.6	640.9	640.2
130°	682.0	681.5	680.9	679.9	679.0	678.1	677.2
132.5°	717.4	716.4	715.6	714.9	714.2	713.5	712.8
135°	771.3	771.0	770.6	769.9	769.3	768.6	767.9
137.5°	822.2	822.0	821.5	820.6	819.7	818.8	817.9
140°	856.7	856.7	856.2	855.3	854.3	853.5	852.6
142.5°	887.8	888.0	887.7	886.8	885.9	884.9	884.0
145°	934.9	935.1	934.8	933.9	933.0	932.1	931.2
147.5°	976.4	976.9	976.7	975.9	975.0	974.2	973.3
150°	1002.8	1003.4	1003.4	1002.8	1002.1	1001.4	1000.8
152.5°	1029.1	1030.0	1030.0	1029.1	1028.2	1027.4	1026.5
155°	1062.6	1063.7	1063.9	1063.2	1062.6	1061.9	1061.2
157.5°	1093.6	1095.1	1095.3	1094.3	1093.2	1092.1	1091.1
160°	1111.6	1113.0	1113.2	1112.3	1111.4	1110.4	1109.5
162.5°	1128.2	1129.7	1130.0	1128.9	1127.8	1126.8	1125.7
165°	1149.5	1151.1	1151.3	1150.2	1149.1	1148.0	1146.9
167.5°	1167.1	1168.6	1168.8	1167.7	1166.5	1165.4	1164.2
170°	1176.8	1178.3	1178.4	1177.1	1175.8	1174.4	1173.1
172.5°	1184.1	1185.6	1185.7	1184.4	1183.1	1181.6	1180.3
175°	1191.8	1193.5	1193.6	1192.2	1190.8	1189.5	1188.2
177.5°	1195.1	1196.1	1196.1	1195.1	1194.0	1192.9	1191.8
180°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3

(END OF REPORT)