

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

Luminaire Tested: **SA2XXDIP-C485D925U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331313
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-C485D925U835-4F0-1E-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: 5455.3 lumens
Efficiency: N/A
Efficacy: 122.6 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

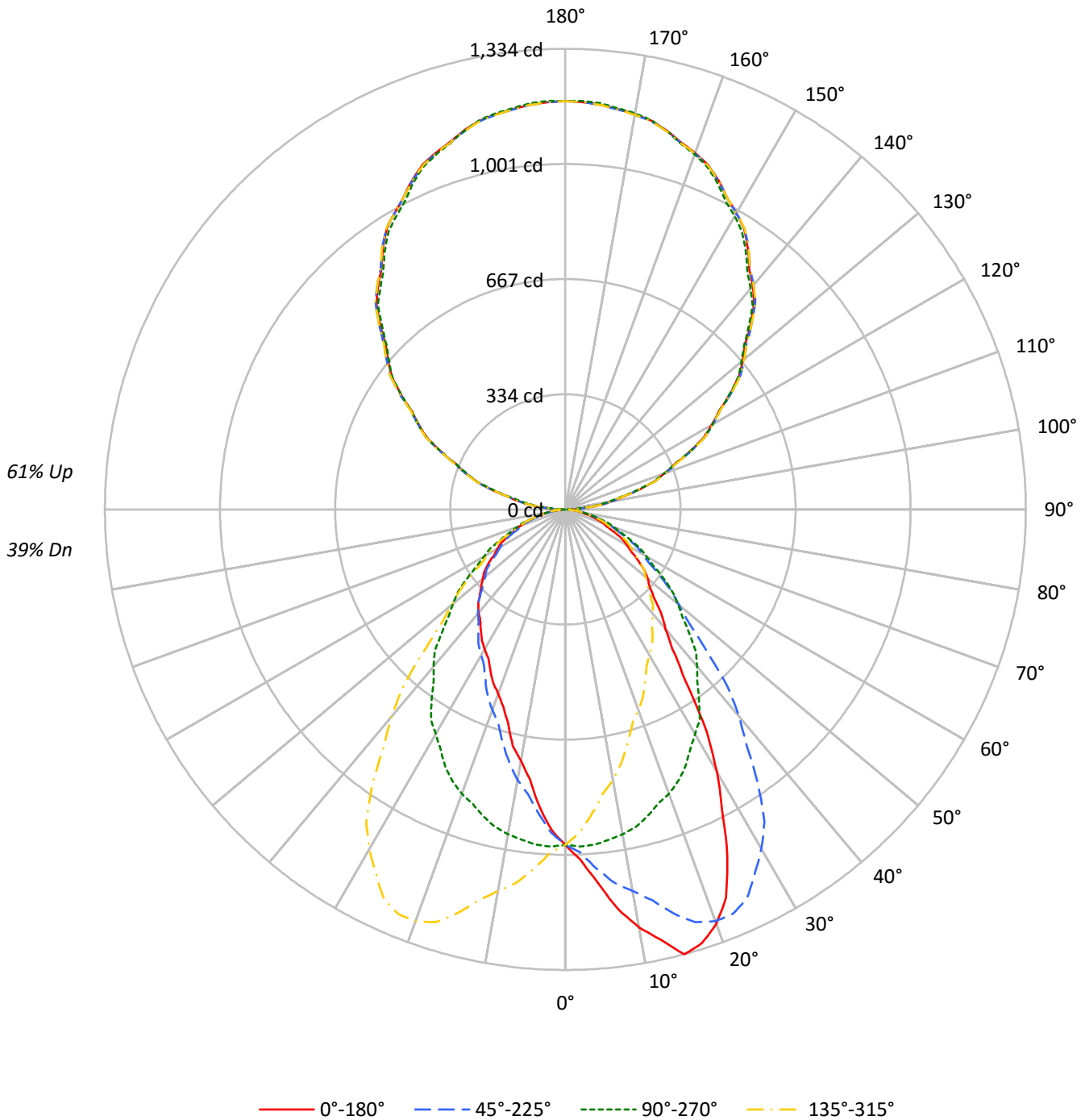
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331313

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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°	15689	15689	15689	15689
5°	17590	15793	13994	15793
10°	20156	15662	12111	15662
15°	22298	15375	10700	15375
20°	21959	15067	9754	15067
25°	19800	14656	9155	14656
30°	16362	14001	8718	14001
35°	11925	13316	8406	13316
40°	9525	12507	8233	12507
45°	8323	11572	7999	11572
50°	7824	10665	7842	10665
55°	7212	9745	7631	9745
60°	6610	8767	7308	8767
65°	6021	7889	6991	7889
70°	5467	7034	6524	7034
75°	4847	6082	5777	6082
80°	4166	5040	4649	5040
85°	3742	3742	2760	3742



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	1.7
10°-20°	269.0	4.9
20°-30°	390.5	7.2
30°-40°	412.0	7.6
40°-50°	364.8	6.7
50°-60°	291.1	5.3
60°-70°	197.9	3.6
70°-80°	101.5	1.9
80°-90°	29.2	0.5
90°-100°	74.9	1.4
100°-110°	232.7	4.3
110°-120°	397.8	7.3
120°-130°	523.2	9.6
130°-140°	587.2	10.8
140°-150°	575.7	10.6
150°-160°	482.9	8.9
160°-170°	320.3	5.9
170°-180°	111.9	2.1
0°-30°	752.0	13.8
0°-40°	1164.1	21.3
0°-60°	1820.1	33.4
0°-90°	2148.6	39.4
90°-120°	705.5	12.9
90°-150°	2391.6	43.8
90°-180°	3307.0	60.6
0°-180°	5455.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	1085	974	863	974	1085	108
15°	1334	920	640	920	1334	368
25°	1111	823	514	823	1111	502
35°	605	676	426	676	605	393
45°	364	507	350	507	364	287
55°	256	346	271	346	256	230
65°	158	206	183	206	158	157
75°	78	98	93	98	78	83
85°	20	20	15	20	20	23
90°	34	1	34	1	34	16
95°	62	52	62	52	62	69
105°	222	215	222	215	222	233
115°	399	399	399	399	399	394
125°	583	581	583	581	583	520
135°	760	752	760	752	760	585
145°	922	912	922	912	922	576
155°	1051	1043	1051	1043	1051	484
165°	1136	1135	1136	1135	1136	320
175°	1177	1181	1177	1181	1177	112
180°	1183	1183	1183	1183	1183	



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1016.6	1016.9	1017.4	1012.7	1012.1	1012.1	1007.9	1004.3	1000.1	994.4	995.0
5°	1085.3	1089.4	1090.9	1086.4	1079.7	1078.9	1072.6	1062.1	1052.4	1044.6	1039.0
7.5°	1167.3	1168.9	1165.3	1159.4	1154.4	1145.4	1133.6	1122.0	1105.8	1090.9	1079.9
10°	1229.4	1231.7	1225.3	1216.7	1209.6	1199.2	1182.0	1164.4	1143.2	1122.6	1106.2
12.5°	1276.6	1282.2	1274.0	1272.9	1260.7	1246.4	1225.9	1217.0	1187.1	1158.5	1140.8
15°	1334.0	1333.6	1334.4	1327.3	1318.3	1316.1	1294.4	1270.9	1228.7	1211.9	1182.7
17.5°	1317.4	1323.1	1325.7	1325.6	1325.4	1324.0	1317.0	1302.2	1281.0	1253.8	1220.2
20°	1278.0	1285.4	1286.6	1295.2	1300.0	1306.4	1309.0	1304.9	1291.8	1269.0	1239.9
22.5°	1217.0	1219.1	1222.6	1236.0	1246.5	1262.4	1270.7	1284.5	1279.5	1268.4	1244.1
25°	1111.4	1107.7	1120.7	1127.5	1151.7	1177.1	1195.4	1215.6	1233.5	1244.4	1237.3
27.5°	984.6	979.0	998.6	1016.4	1036.1	1063.6	1092.1	1125.8	1153.8	1188.9	1200.9
30°	877.6	881.0	899.7	918.7	948.6	987.4	1019.5	1056.5	1096.5	1135.7	1162.9
32.5°	762.3	775.2	787.0	816.2	842.5	885.8	932.9	979.1	1029.0	1073.5	1115.7
35°	605.0	619.9	636.4	657.7	694.6	737.6	783.5	845.9	913.9	974.7	1024.8
37.5°	509.2	506.9	516.3	531.7	561.6	596.3	649.1	710.8	790.8	862.3	932.9
40°	451.9	450.4	457.1	471.3	494.1	519.5	565.8	619.9	694.3	781.6	865.7
42.5°	412.4	413.3	417.1	427.1	442.7	463.6	498.3	544.4	612.4	694.7	785.0
45°	364.5	367.1	371.2	376.1	385.0	402.2	421.6	454.5	508.3	577.0	665.9
47.5°	330.0	330.1	334.2	338.5	343.8	353.5	369.4	390.0	427.9	483.9	560.3
50°	311.5	308.8	311.8	315.2	320.8	327.5	338.0	357.4	382.8	428.0	491.8
52.5°	288.8	288.8	291.5	292.8	297.8	304.5	314.1	327.5	350.5	385.9	438.4
55°	256.2	258.1	259.6	261.8	266.3	271.1	278.6	287.6	305.5	332.0	370.8
57.5°	225.6	226.2	227.7	231.9	234.8	239.2	246.3	254.5	266.1	285.8	315.0
60°	204.7	204.7	207.6	209.5	213.2	217.7	223.3	231.2	241.6	257.7	281.2
62.5°	185.5	185.2	186.4	189.5	192.3	196.5	202.1	208.8	218.6	232.9	252.2
65°	157.6	156.9	159.1	159.8	162.8	166.9	171.4	178.5	186.4	196.8	214.0
67.5°	130.7	131.6	132.8	134.2	135.9	140.2	143.2	148.2	154.8	163.5	175.2
70°	115.8	115.8	115.8	116.9	119.1	121.4	124.4	128.5	134.8	142.3	152.7
72.5°	99.0	100.2	101.4	100.8	103.6	104.9	108.5	110.8	116.9	121.7	130.9
75°	77.7	77.7	77.7	79.5	80.7	81.8	84.0	86.3	89.3	95.2	100.1
77.5°	58.0	57.8	58.2	58.6	59.8	61.2	61.8	63.9	66.6	69.4	73.5
80°	44.8	45.6	45.9	46.7	46.7	47.4	47.8	50.4	52.3	54.2	56.8
82.5°	34.7	34.8	34.9	35.0	35.3	35.8	36.7	37.6	38.2	39.8	41.8
85°	20.2	19.8	19.8	20.5	20.2	20.2	20.9	21.7	21.7	22.0	23.2
87.5°	14.6	14.5	14.8	14.4	14.4	14.7	14.8	14.6	15.0	15.4	14.7
90°	33.9	33.7	33.5	33.3	33.0	33.2	33.6	34.0	34.5	34.9	30.0
92.5°	32.3	32.3	32.2	32.2	32.2	32.1	32.0	31.9	31.8	31.7	30.6
95°	61.9	62.3	62.8	63.2	63.6	63.9	63.9	63.9	63.9	63.9	63.4
97.5°	107.2	107.2	107.3	107.3	107.4	107.4	107.4	107.4	107.4	107.4	106.5
100°	136.7	136.9	137.2	137.4	137.6	137.7	137.7	137.7	137.7	137.7	137.1
102.5°	170.3	170.5	170.7	170.9	171.1	171.2	171.0	170.8	170.6	170.5	169.6
105°	221.5	221.5	221.5	221.5	221.5	221.3	220.9	220.4	220.0	219.5	219.1
107.5°	269.8	270.9	271.9	272.9	273.9	274.3	274.2	274.0	273.8	273.6	273.6
110°	307.4	308.0	308.7	309.4	310.0	310.4	310.4	310.4	310.4	310.4	310.4



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	343.3	343.8	344.3	344.8	345.2	345.8	346.3	346.8	347.4	347.9	348.1
115°	399.2	399.8	400.5	401.2	401.8	402.3	402.5	402.7	403.0	403.2	403.6
117.5°	452.5	453.1	453.8	454.5	455.1	455.7	456.3	456.8	457.3	457.9	459.1
120°	490.0	490.7	491.3	492.0	492.7	493.0	493.0	493.0	493.0	493.0	494.8
122.5°	526.7	527.2	527.7	528.2	528.7	529.2	529.7	530.2	530.8	531.3	532.6
125°	582.8	583.0	583.2	583.5	583.7	584.1	584.8	585.5	586.1	586.8	587.5
127.5°	633.9	634.6	635.3	636.0	636.7	637.5	638.3	639.1	639.9	640.7	641.5
130°	670.6	671.5	672.4	673.3	674.2	674.8	675.3	675.7	676.2	676.6	677.1
132.5°	705.8	706.5	707.2	707.9	708.6	709.4	710.4	711.4	712.4	713.3	713.2
135°	760.4	761.1	761.8	762.4	763.1	763.5	763.8	764.0	764.2	764.4	764.0
137.5°	809.9	810.8	811.7	812.6	813.5	814.0	814.2	814.4	814.6	814.7	814.2
140°	844.3	845.2	846.0	846.9	847.8	848.3	848.3	848.3	848.3	848.3	847.2
142.5°	875.4	876.3	877.2	878.1	879.0	879.3	879.1	879.0	878.8	878.6	877.8
145°	922.1	923.0	923.9	924.8	925.7	926.0	925.8	925.5	925.3	925.1	923.8
147.5°	963.8	964.7	965.5	966.4	967.2	967.4	966.9	966.4	965.9	965.4	964.5
150°	991.0	991.6	992.3	993.0	993.6	993.6	993.0	992.3	991.6	991.0	990.1
152.5°	1016.5	1017.4	1018.2	1019.0	1019.9	1019.9	1019.0	1018.2	1017.4	1016.5	1015.4
155°	1050.8	1051.5	1052.2	1052.8	1053.5	1053.3	1052.2	1051.1	1050.0	1048.8	1048.2
157.5°	1080.4	1081.4	1082.5	1083.6	1084.6	1084.4	1082.9	1081.4	1079.9	1078.4	1078.0
160°	1098.7	1099.6	1100.5	1101.4	1102.3	1102.1	1100.7	1099.4	1098.1	1096.7	1096.5
162.5°	1114.7	1115.8	1116.8	1117.9	1119.0	1118.7	1117.2	1115.7	1114.2	1112.7	1112.5
165°	1135.7	1136.8	1137.9	1139.0	1140.1	1139.9	1138.3	1136.8	1135.2	1133.7	1133.7
167.5°	1152.8	1154.0	1155.1	1156.3	1157.4	1157.2	1155.7	1154.1	1152.6	1151.0	1151.1
170°	1161.6	1162.9	1164.3	1165.6	1166.9	1166.8	1165.3	1163.7	1162.2	1160.6	1160.8
172.5°	1168.8	1170.1	1171.5	1172.8	1174.1	1174.0	1172.5	1170.9	1169.4	1167.8	1168.0
175°	1176.6	1177.9	1179.2	1180.6	1181.9	1181.8	1180.2	1178.7	1177.1	1175.6	1176.0
177.5°	1180.2	1181.2	1182.3	1183.4	1184.4	1184.4	1183.4	1182.3	1181.2	1180.2	1180.5
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	997.1	994.7	993.2	987.9	983.1	978.3	976.8	977.4	970.8	964.6	961.9
5°	1036.0	1028.5	1021.4	1011.3	999.4	986.3	979.6	974.4	961.3	947.1	938.9
7.5°	1070.8	1060.1	1046.4	1027.5	1010.1	989.5	976.4	964.9	945.7	925.7	913.5
10°	1092.0	1077.4	1059.9	1036.7	1015.4	990.4	972.9	955.3	932.9	909.0	894.1
12.5°	1110.2	1090.6	1073.3	1043.6	1018.4	987.1	966.3	941.6	918.0	889.6	874.9
15°	1153.6	1117.4	1084.5	1050.9	1019.9	976.2	953.1	919.8	888.8	853.7	836.9
17.5°	1187.1	1146.4	1094.7	1052.0	1015.8	967.4	933.4	893.6	856.9	816.8	794.0
20°	1206.3	1159.6	1103.9	1053.2	1009.8	954.6	917.6	876.9	833.9	788.7	764.1
22.5°	1217.6	1168.6	1113.5	1048.7	997.9	944.1	897.6	853.0	809.4	760.7	734.8
25°	1221.2	1176.4	1118.1	1044.9	982.9	922.1	866.0	822.7	770.1	724.5	686.8
27.5°	1203.4	1171.3	1115.3	1037.9	965.7	894.5	832.1	783.0	727.4	678.0	640.0
30°	1181.6	1162.9	1108.4	1030.7	951.9	875.4	806.7	751.0	695.8	645.7	606.9
32.5°	1147.9	1143.8	1095.9	1020.6	937.3	851.2	780.1	723.8	662.6	613.4	576.4
35°	1081.5	1099.5	1069.2	997.9	909.7	816.8	739.8	675.6	612.1	565.0	530.3
37.5°	992.7	1037.2	1029.3	964.6	872.5	779.3	694.3	627.2	566.7	519.2	485.1
40°	931.4	988.2	996.4	939.2	846.3	750.3	660.3	593.4	534.4	491.1	456.7
42.5°	865.7	932.0	954.6	908.8	817.6	719.8	629.8	560.6	502.2	460.0	429.6
45°	755.5	843.3	884.0	857.8	769.7	669.6	577.0	506.8	453.8	414.2	390.6
47.5°	652.5	748.4	803.2	793.9	716.4	617.3	525.8	458.4	406.8	375.2	354.1
50°	579.6	678.2	744.3	747.3	678.2	580.0	488.1	424.6	377.2	347.7	330.5
52.5°	516.3	610.4	682.5	698.3	635.5	541.1	454.3	391.2	349.4	322.3	306.9
55°	433.6	513.1	593.1	622.2	571.8	482.1	401.8	346.2	307.0	288.3	274.9
57.5°	360.5	426.8	500.6	532.8	501.7	425.0	349.7	301.4	269.6	253.2	242.9
60°	321.9	374.2	439.9	478.4	451.5	383.2	317.4	271.5	245.4	230.8	221.1
62.5°	286.1	332.4	387.9	423.1	408.5	344.0	285.2	244.6	222.1	208.4	201.4
65°	236.0	272.6	315.6	348.1	338.4	289.4	241.3	206.5	188.6	177.8	172.2
67.5°	194.3	220.8	250.6	279.0	271.2	236.5	197.9	170.8	157.4	148.1	144.8
70°	168.1	188.2	214.7	237.5	231.2	202.8	172.2	149.0	137.4	129.6	126.2
72.5°	143.0	159.5	179.8	198.4	194.1	170.5	145.0	127.5	118.6	111.4	108.6
75°	107.9	120.6	133.0	145.3	144.2	125.9	110.9	97.5	90.4	84.8	83.7
77.5°	79.7	86.8	95.2	102.5	100.5	90.0	78.3	70.6	65.4	61.6	61.0
80°	60.9	65.0	71.0	76.2	73.6	69.1	59.8	54.2	50.4	46.7	45.2
82.5°	44.1	48.3	51.8	54.7	52.7	48.5	42.7	38.9	36.7	34.1	33.5
85°	23.2	25.4	26.9	27.6	26.9	24.3	21.7	20.2	18.3	17.2	16.8
87.5°	14.0	13.0	12.0	11.9	10.5	9.9	8.2	6.8	7.0	7.2	7.2
90°	25.2	20.3	15.4	11.6	9.0	6.3	3.7	1.0	3.7	6.3	9.0
92.5°	29.4	28.3	27.1	25.6	23.6	21.7	19.7	17.8	19.7	21.7	23.6
95°	63.0	62.5	62.1	60.8	58.5	56.3	54.1	51.9	54.1	56.3	58.5
97.5°	105.7	104.9	104.0	102.6	100.7	98.7	96.8	94.8	96.8	98.7	100.7
100°	136.4	135.7	135.1	133.8	132.1	130.3	128.5	126.7	128.5	130.3	132.1
102.5°	168.8	167.9	167.1	165.9	164.5	163.1	161.7	160.3	161.7	163.1	164.5
105°	218.7	218.2	217.8	217.2	216.6	215.9	215.2	214.6	215.2	215.9	216.6
107.5°	273.6	273.6	273.6	273.2	272.2	271.2	270.2	269.2	270.2	271.2	272.2
110°	310.4	310.4	310.4	309.7	308.4	307.0	305.7	304.4	305.7	307.0	308.4



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	348.2	348.4	348.6	348.0	346.7	345.4	344.0	342.7	344.0	345.4	346.7
115°	404.1	404.5	404.9	404.5	403.2	401.8	400.5	399.2	400.5	401.8	403.2
117.5°	460.3	461.6	462.8	462.6	460.8	459.0	457.2	455.5	457.2	459.0	460.8
120°	496.5	498.3	500.1	500.1	498.3	496.5	494.8	493.0	494.8	496.5	498.3
122.5°	533.8	535.0	536.3	535.8	533.7	531.6	529.4	527.3	529.4	531.6	533.7
125°	588.1	588.8	589.5	588.8	586.8	584.8	582.8	580.8	582.8	584.8	586.8
127.5°	642.3	643.1	643.9	643.0	640.5	638.0	635.4	632.9	635.4	638.0	640.5
130°	677.5	677.9	678.4	677.2	674.3	671.4	668.5	665.6	668.5	671.4	674.3
132.5°	713.2	713.1	713.0	711.8	709.4	707.1	704.7	702.4	704.7	707.1	709.4
135°	763.5	763.1	762.7	761.2	758.8	756.3	753.9	751.5	753.9	756.3	758.8
137.5°	813.6	813.0	812.4	811.1	809.1	807.1	805.1	803.2	805.1	807.1	809.1
140°	846.0	844.9	843.8	842.3	840.3	838.3	836.3	834.3	836.3	838.3	840.3
142.5°	877.1	876.3	875.6	874.2	872.2	870.2	868.2	866.2	868.2	870.2	872.2
145°	922.4	921.1	919.8	918.3	916.8	915.2	913.7	912.1	913.7	915.2	916.8
147.5°	963.6	962.8	961.9	960.5	958.6	956.8	954.9	953.0	954.9	956.8	958.6
150°	989.2	988.3	987.4	986.3	985.0	983.6	982.3	981.0	982.3	983.6	985.0
152.5°	1014.4	1013.3	1012.3	1011.1	1009.7	1008.4	1007.1	1005.7	1007.1	1008.4	1009.7
155°	1047.5	1046.9	1046.2	1045.5	1044.9	1044.2	1043.5	1042.9	1043.5	1044.2	1044.9
157.5°	1077.6	1077.2	1076.8	1076.4	1075.9	1075.5	1075.0	1074.6	1075.0	1075.5	1075.9
160°	1096.3	1096.1	1095.9	1095.5	1095.1	1094.6	1094.2	1093.8	1094.2	1094.6	1095.1
162.5°	1112.3	1112.1	1111.8	1111.7	1111.6	1111.5	1111.4	1111.3	1111.4	1111.5	1111.6
165°	1133.7	1133.7	1133.7	1133.8	1134.0	1134.2	1134.5	1134.7	1134.5	1134.2	1134.0
167.5°	1151.1	1151.2	1151.2	1151.6	1152.2	1152.9	1153.6	1154.2	1153.6	1152.9	1152.2
170°	1161.1	1161.3	1161.5	1161.9	1162.6	1163.3	1163.9	1164.6	1163.9	1163.3	1162.6
172.5°	1168.2	1168.5	1168.7	1169.1	1169.8	1170.5	1171.1	1171.8	1171.1	1170.5	1169.8
175°	1176.5	1176.9	1177.4	1177.9	1178.6	1179.2	1179.9	1180.6	1179.9	1179.2	1178.6
177.5°	1180.9	1181.2	1181.6	1182.0	1182.6	1183.1	1183.6	1184.2	1183.6	1183.1	1182.6
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	958.9	957.1	950.8	947.5	942.2	937.1	933.8	935.3	936.5	935.9	935.0
5°	931.4	924.3	913.5	904.1	897.4	885.1	879.9	877.3	875.0	872.4	869.8
7.5°	898.7	887.5	872.0	858.7	846.1	830.8	822.1	816.8	811.4	805.5	800.3
10°	875.4	859.7	843.3	824.6	809.7	795.8	783.5	775.3	767.8	760.7	755.5
12.5°	850.9	832.8	812.5	787.0	770.5	750.7	748.9	734.4	722.7	718.3	712.2
15°	811.9	786.5	760.7	730.5	717.4	699.5	688.3	677.1	667.0	659.9	658.0
17.5°	767.6	734.7	709.1	687.4	666.0	647.6	637.3	628.3	620.0	610.5	609.3
20°	733.8	705.5	677.5	658.4	636.4	617.7	605.0	596.0	588.9	583.3	578.5
22.5°	701.9	670.8	645.2	624.3	602.6	587.5	577.5	568.9	563.0	556.8	552.2
25°	650.6	626.3	598.3	574.8	556.8	547.1	538.9	531.4	527.7	523.6	518.4
27.5°	605.7	578.7	552.5	534.3	518.5	509.9	504.1	499.0	495.5	493.1	490.1
30°	574.0	546.7	526.2	508.3	495.2	486.6	482.9	479.9	475.8	474.3	472.8
32.5°	543.5	519.0	501.4	485.9	473.4	467.8	464.4	461.7	458.5	457.0	454.0
35°	500.4	479.9	462.7	454.1	444.0	439.2	436.6	432.8	429.9	428.4	428.0
37.5°	459.9	442.0	430.7	419.7	415.4	412.4	408.9	406.3	405.4	405.2	404.8
40°	433.6	419.0	408.9	400.0	398.1	393.6	390.6	388.4	388.4	388.8	388.4
42.5°	409.7	396.6	387.7	380.0	377.8	375.1	372.1	372.0	372.6	373.8	372.6
45°	373.5	364.1	357.8	354.0	349.9	347.3	346.9	348.1	348.4	348.8	349.9
47.5°	340.1	333.9	328.2	324.1	322.3	321.8	321.4	323.3	325.1	325.8	327.5
50°	320.4	313.3	308.5	305.9	304.4	303.6	304.4	306.6	308.1	310.0	311.1
52.5°	298.3	293.3	290.0	287.9	287.3	287.8	287.9	290.5	292.9	293.5	294.1
55°	267.8	264.0	263.3	259.9	261.4	261.0	262.9	264.4	266.6	268.9	269.3
57.5°	237.3	234.3	232.3	232.6	233.0	234.7	236.2	238.9	241.3	243.6	243.9
60°	217.0	215.5	214.4	214.4	215.1	217.4	219.2	221.8	223.3	224.8	225.9
62.5°	198.5	197.0	195.8	196.4	198.4	199.7	201.9	203.3	204.8	206.3	206.8
65°	169.2	168.4	169.6	170.3	170.7	172.5	175.2	176.3	177.8	178.5	181.1
67.5°	142.2	142.4	142.2	143.3	145.4	145.9	148.3	151.0	151.3	152.7	154.4
70°	124.0	124.7	125.5	126.2	128.1	128.8	130.7	131.8	133.3	134.4	135.6
72.5°	107.3	107.4	108.2	108.0	109.6	111.2	112.8	113.9	115.4	116.8	117.9
75°	82.5	82.5	83.3	83.7	85.5	87.4	87.0	87.8	89.3	90.8	91.5
77.5°	60.3	59.5	60.3	60.6	61.2	62.8	63.1	64.2	65.9	65.4	66.2
80°	45.9	44.8	45.9	46.3	46.3	48.2	48.2	48.9	50.0	48.9	50.0
82.5°	32.8	32.3	33.1	33.2	33.8	33.8	34.4	34.6	35.7	35.2	35.7
85°	16.4	16.1	16.4	16.1	16.4	16.8	16.8	16.4	16.4	17.2	16.1
87.5°	7.4	7.9	8.5	9.5	10.2	10.9	10.5	10.4	10.3	9.6	9.6
90°	11.6	15.4	20.3	25.2	30.0	34.9	34.5	34.0	33.6	33.2	33.0
92.5°	25.6	27.1	28.3	29.4	30.6	31.7	31.8	31.9	32.0	32.1	32.2
95°	60.8	62.1	62.5	63.0	63.4	63.9	63.9	63.9	63.9	63.9	63.6
97.5°	102.6	104.0	104.9	105.7	106.5	107.4	107.4	107.4	107.4	107.4	107.4
100°	133.8	135.1	135.7	136.4	137.1	137.7	137.7	137.7	137.7	137.7	137.6
102.5°	165.9	167.1	167.9	168.8	169.6	170.5	170.6	170.8	171.0	171.2	171.1
105°	217.2	217.8	218.2	218.7	219.1	219.5	220.0	220.4	220.9	221.3	221.5
107.5°	273.2	273.6	273.6	273.6	273.6	273.6	273.8	274.0	274.2	274.3	273.9
110°	309.7	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.0



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	348.0	348.6	348.4	348.2	348.1	347.9	347.4	346.8	346.3	345.8	345.2
115°	404.5	404.9	404.5	404.1	403.6	403.2	403.0	402.7	402.5	402.3	401.8
117.5°	462.6	462.8	461.6	460.3	459.1	457.9	457.3	456.8	456.3	455.7	455.1
120°	500.1	500.1	498.3	496.5	494.8	493.0	493.0	493.0	493.0	493.0	492.7
122.5°	535.8	536.3	535.0	533.8	532.6	531.3	530.8	530.2	529.7	529.2	528.7
125°	588.8	589.5	588.8	588.1	587.5	586.8	586.1	585.5	584.8	584.1	583.7
127.5°	643.0	643.9	643.1	642.3	641.5	640.7	639.9	639.1	638.3	637.5	636.7
130°	677.2	678.4	677.9	677.5	677.1	676.6	676.2	675.7	675.3	674.8	674.2
132.5°	711.8	713.0	713.1	713.2	713.2	713.3	712.4	711.4	710.4	709.4	708.6
135°	761.2	762.7	763.1	763.5	764.0	764.4	764.2	764.0	763.8	763.5	763.1
137.5°	811.1	812.4	813.0	813.6	814.2	814.7	814.6	814.4	814.2	814.0	813.5
140°	842.3	843.8	844.9	846.0	847.2	848.3	848.3	848.3	848.3	848.3	847.8
142.5°	874.2	875.6	876.3	877.1	877.8	878.6	878.8	879.0	879.1	879.3	879.0
145°	918.3	919.8	921.1	922.4	923.8	925.1	925.3	925.5	925.8	926.0	925.7
147.5°	960.5	961.9	962.8	963.6	964.5	965.4	965.9	966.4	966.9	967.4	967.2
150°	986.3	987.4	988.3	989.2	990.1	991.0	991.6	992.3	993.0	993.6	993.6
152.5°	1011.1	1012.3	1013.3	1014.4	1015.4	1016.5	1017.4	1018.2	1019.0	1019.9	1019.9
155°	1045.5	1046.2	1046.9	1047.5	1048.2	1048.8	1050.0	1051.1	1052.2	1053.3	1053.5
157.5°	1076.4	1076.8	1077.2	1077.6	1078.0	1078.4	1079.9	1081.4	1082.9	1084.4	1084.6
160°	1095.5	1095.9	1096.1	1096.3	1096.5	1096.7	1098.1	1099.4	1100.7	1102.1	1102.3
162.5°	1111.7	1111.8	1112.1	1112.3	1112.5	1112.7	1114.2	1115.7	1117.2	1118.7	1119.0
165°	1133.8	1133.7	1133.7	1133.7	1133.7	1133.7	1135.2	1136.8	1138.3	1139.9	1140.1
167.5°	1151.6	1151.2	1151.2	1151.1	1151.1	1151.0	1152.6	1154.1	1155.7	1157.2	1157.4
170°	1161.9	1161.5	1161.3	1161.1	1160.8	1160.6	1162.2	1163.7	1165.3	1166.8	1166.9
172.5°	1169.1	1168.7	1168.5	1168.2	1168.0	1167.8	1169.4	1170.9	1172.5	1174.0	1174.1
175°	1177.9	1177.4	1176.9	1176.5	1176.0	1175.6	1177.1	1178.7	1180.2	1181.8	1181.9
177.5°	1182.0	1181.6	1181.2	1180.9	1180.5	1180.2	1181.2	1182.3	1183.4	1184.4	1184.4
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	932.0	931.4	931.4	928.7	931.4	931.4	932.0	935.0	935.9	936.5	935.3
5°	864.6	863.4	861.6	863.4	861.6	863.4	864.6	869.8	872.4	875.0	877.3
7.5°	797.9	793.4	792.7	788.3	792.7	793.4	797.9	800.3	805.5	811.4	816.8
10°	749.2	746.2	745.8	738.7	745.8	746.2	749.2	755.5	760.7	767.8	775.3
12.5°	712.1	704.9	706.4	702.3	706.4	704.9	712.1	712.2	718.3	722.7	734.4
15°	647.9	647.9	646.5	640.1	646.5	647.9	647.9	658.0	659.9	667.0	677.1
17.5°	601.9	601.1	597.5	599.3	597.5	601.1	601.9	609.3	610.5	620.0	628.3
20°	574.4	572.1	567.7	567.7	567.7	572.1	574.4	578.5	583.3	588.9	596.0
22.5°	548.4	548.2	543.5	545.0	543.5	548.2	548.4	552.2	556.8	563.0	568.9
25°	518.0	515.0	512.8	513.9	512.8	515.0	518.0	518.4	523.6	527.7	531.4
27.5°	489.2	487.5	487.4	484.3	487.4	487.5	489.2	490.1	493.1	495.5	499.0
30°	472.4	468.7	469.4	467.6	469.4	468.7	472.4	472.8	474.3	475.8	479.9
32.5°	453.3	452.0	451.2	449.6	451.2	452.0	453.3	454.0	457.0	458.5	461.7
35°	427.2	427.6	425.7	426.5	425.7	427.6	427.2	428.0	428.4	429.9	432.8
37.5°	404.5	405.7	404.8	405.0	404.8	405.7	404.5	404.8	405.2	405.4	406.3
40°	389.5	389.5	389.5	390.6	389.5	389.5	389.5	388.4	388.8	388.4	388.4
42.5°	375.2	374.6	374.0	373.9	374.0	374.6	375.2	372.6	373.8	372.6	372.0
45°	350.7	351.8	352.2	350.3	352.2	351.8	350.7	349.9	348.8	348.4	348.1
47.5°	328.5	328.6	328.5	330.1	328.5	328.6	328.5	327.5	325.8	325.1	323.3
50°	313.0	312.2	313.0	312.2	313.0	312.2	313.0	311.1	310.0	308.1	306.6
52.5°	296.5	296.7	296.2	296.1	296.2	296.7	296.5	294.1	293.5	292.9	290.5
55°	270.8	271.5	271.1	271.1	271.1	271.5	270.8	269.3	268.9	266.6	264.4
57.5°	244.1	244.8	245.3	243.6	245.3	244.8	244.1	243.9	243.6	241.3	238.9
60°	225.6	227.4	227.1	226.3	227.1	227.4	225.6	225.9	224.8	223.3	221.8
62.5°	208.5	209.2	209.1	209.0	209.1	209.2	208.5	206.8	206.3	204.8	203.3
65°	182.2	183.0	181.9	183.0	181.9	183.0	182.2	181.1	178.5	177.8	176.3
67.5°	153.9	154.2	155.0	155.5	155.0	154.2	153.9	154.4	152.7	151.3	151.0
70°	136.3	135.9	137.1	138.2	137.1	135.9	136.3	135.6	134.4	133.3	131.8
72.5°	117.8	118.6	118.2	119.1	118.2	118.6	117.8	117.9	116.8	115.4	113.9
75°	90.8	91.9	91.5	92.6	91.5	91.9	90.8	91.5	90.8	89.3	87.8
77.5°	65.6	65.7	65.6	66.2	65.6	65.7	65.6	66.2	65.4	65.9	64.2
80°	50.0	49.3	48.5	50.0	48.5	49.3	50.0	50.0	48.9	50.0	48.9
82.5°	34.8	35.3	34.5	34.5	34.5	35.3	34.8	35.7	35.2	35.7	34.6
85°	16.1	15.7	14.9	14.9	14.9	15.7	16.1	16.1	17.2	16.4	16.4
87.5°	9.6	9.4	9.4	9.2	9.4	9.4	9.6	9.6	9.6	10.3	10.4
90°	33.3	33.5	33.7	33.9	33.7	33.5	33.3	33.0	33.2	33.6	34.0
92.5°	32.2	32.2	32.3	32.3	32.3	32.2	32.2	32.2	32.1	32.0	31.9
95°	63.2	62.8	62.3	61.9	62.3	62.8	63.2	63.6	63.9	63.9	63.9
97.5°	107.3	107.3	107.2	107.2	107.2	107.3	107.3	107.4	107.4	107.4	107.4
100°	137.4	137.2	136.9	136.7	136.9	137.2	137.4	137.6	137.7	137.7	137.7
102.5°	170.9	170.7	170.5	170.3	170.5	170.7	170.9	171.1	171.2	171.0	170.8
105°	221.5	221.5	221.5	221.5	221.5	221.5	221.5	221.5	221.3	220.9	220.4
107.5°	272.9	271.9	270.9	269.8	270.9	271.9	272.9	273.9	274.3	274.2	274.0
110°	309.4	308.7	308.0	307.4	308.0	308.7	309.4	310.0	310.4	310.4	310.4



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	344.8	344.3	343.8	343.3	343.8	344.3	344.8	345.2	345.8	346.3	346.8
115°	401.2	400.5	399.8	399.2	399.8	400.5	401.2	401.8	402.3	402.5	402.7
117.5°	454.5	453.8	453.1	452.5	453.1	453.8	454.5	455.1	455.7	456.3	456.8
120°	492.0	491.3	490.7	490.0	490.7	491.3	492.0	492.7	493.0	493.0	493.0
122.5°	528.2	527.7	527.2	526.7	527.2	527.7	528.2	528.7	529.2	529.7	530.2
125°	583.5	583.2	583.0	582.8	583.0	583.2	583.5	583.7	584.1	584.8	585.5
127.5°	636.0	635.3	634.6	633.9	634.6	635.3	636.0	636.7	637.5	638.3	639.1
130°	673.3	672.4	671.5	670.6	671.5	672.4	673.3	674.2	674.8	675.3	675.7
132.5°	707.9	707.2	706.5	705.8	706.5	707.2	707.9	708.6	709.4	710.4	711.4
135°	762.4	761.8	761.1	760.4	761.1	761.8	762.4	763.1	763.5	763.8	764.0
137.5°	812.6	811.7	810.8	809.9	810.8	811.7	812.6	813.5	814.0	814.2	814.4
140°	846.9	846.0	845.2	844.3	845.2	846.0	846.9	847.8	848.3	848.3	848.3
142.5°	878.1	877.2	876.3	875.4	876.3	877.2	878.1	879.0	879.3	879.1	879.0
145°	924.8	923.9	923.0	922.1	923.0	923.9	924.8	925.7	926.0	925.8	925.5
147.5°	966.4	965.5	964.7	963.8	964.7	965.5	966.4	967.2	967.4	966.9	966.4
150°	993.0	992.3	991.6	991.0	991.6	992.3	993.0	993.6	993.6	993.0	992.3
152.5°	1019.0	1018.2	1017.4	1016.5	1017.4	1018.2	1019.0	1019.9	1019.9	1019.0	1018.2
155°	1052.8	1052.2	1051.5	1050.8	1051.5	1052.2	1052.8	1053.5	1053.3	1052.2	1051.1
157.5°	1083.6	1082.5	1081.4	1080.4	1081.4	1082.5	1083.6	1084.6	1084.4	1082.9	1081.4
160°	1101.4	1100.5	1099.6	1098.7	1099.6	1100.5	1101.4	1102.3	1102.1	1100.7	1099.4
162.5°	1117.9	1116.8	1115.8	1114.7	1115.8	1116.8	1117.9	1119.0	1118.7	1117.2	1115.7
165°	1139.0	1137.9	1136.8	1135.7	1136.8	1137.9	1139.0	1140.1	1139.9	1138.3	1136.8
167.5°	1156.3	1155.1	1154.0	1152.8	1154.0	1155.1	1156.3	1157.4	1157.2	1155.7	1154.1
170°	1165.6	1164.3	1162.9	1161.6	1162.9	1164.3	1165.6	1166.9	1166.8	1165.3	1163.7
172.5°	1172.8	1171.5	1170.1	1168.8	1170.1	1171.5	1172.8	1174.1	1174.0	1172.5	1170.9
175°	1180.6	1179.2	1177.9	1176.6	1177.9	1179.2	1180.6	1181.9	1181.8	1180.2	1178.7
177.5°	1183.4	1182.3	1181.2	1180.2	1181.2	1182.3	1183.4	1184.4	1184.4	1183.4	1182.3
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	933.8	937.1	942.2	947.5	950.8	957.1	958.9	961.9	964.6	970.8	977.4
5°	879.9	885.1	897.4	904.1	913.5	924.3	931.4	938.9	947.1	961.3	974.4
7.5°	822.1	830.8	846.1	858.7	872.0	887.5	898.7	913.5	925.7	945.7	964.9
10°	783.5	795.8	809.7	824.6	843.3	859.7	875.4	894.1	909.0	932.9	955.3
12.5°	748.9	750.7	770.5	787.0	812.5	832.8	850.9	874.9	889.6	918.0	941.6
15°	688.3	699.5	717.4	730.5	760.7	786.5	811.9	836.9	853.7	888.8	919.8
17.5°	637.3	647.6	666.0	687.4	709.1	734.7	767.6	794.0	816.8	856.9	893.6
20°	605.0	617.7	636.4	658.4	677.5	705.5	733.8	764.1	788.7	833.9	876.9
22.5°	577.5	587.5	602.6	624.3	645.2	670.8	701.9	734.8	760.7	809.4	853.0
25°	538.9	547.1	556.8	574.8	598.3	626.3	650.6	686.8	724.5	770.1	822.7
27.5°	504.1	509.9	518.5	534.3	552.5	578.7	605.7	640.0	678.0	727.4	783.0
30°	482.9	486.6	495.2	508.3	526.2	546.7	574.0	606.9	645.7	695.8	751.0
32.5°	464.4	467.8	473.4	485.9	501.4	519.0	543.5	576.4	613.4	662.6	723.8
35°	436.6	439.2	444.0	454.1	462.7	479.9	500.4	530.3	565.0	612.1	675.6
37.5°	408.9	412.4	415.4	419.7	430.7	442.0	459.9	485.1	519.2	566.7	627.2
40°	390.6	393.6	398.1	400.0	408.9	419.0	433.6	456.7	491.1	534.4	593.4
42.5°	372.1	375.1	377.8	380.0	387.7	396.6	409.7	429.6	460.0	502.2	560.6
45°	346.9	347.3	349.9	354.0	357.8	364.1	373.5	390.6	414.2	453.8	506.8
47.5°	321.4	321.8	322.3	324.1	328.2	333.9	340.1	354.1	375.2	406.8	458.4
50°	304.4	303.6	304.4	305.9	308.5	313.3	320.4	330.5	347.7	377.2	424.6
52.5°	287.9	287.8	287.3	287.9	290.0	293.3	298.3	306.9	322.3	349.4	391.2
55°	262.9	261.0	261.4	259.9	263.3	264.0	267.8	274.9	288.3	307.0	346.2
57.5°	236.2	234.7	233.0	232.6	232.3	234.3	237.3	242.9	253.2	269.6	301.4
60°	219.2	217.4	215.1	214.4	214.4	215.5	217.0	221.1	230.8	245.4	271.5
62.5°	201.9	199.7	198.4	196.4	195.8	197.0	198.5	201.4	208.4	222.1	244.6
65°	175.2	172.5	170.7	170.3	169.6	168.4	169.2	172.2	177.8	188.6	206.5
67.5°	148.3	145.9	145.4	143.3	142.2	142.4	142.2	144.8	148.1	157.4	170.8
70°	130.7	128.8	128.1	126.2	125.5	124.7	124.0	126.2	129.6	137.4	149.0
72.5°	112.8	111.2	109.6	108.0	108.2	107.4	107.3	108.6	111.4	118.6	127.5
75°	87.0	87.4	85.5	83.7	83.3	82.5	82.5	83.7	84.8	90.4	97.5
77.5°	63.1	62.8	61.2	60.6	60.3	59.5	60.3	61.0	61.6	65.4	70.6
80°	48.2	48.2	46.3	46.3	45.9	44.8	45.9	45.2	46.7	50.4	54.2
82.5°	34.4	33.8	33.8	33.2	33.1	32.3	32.8	33.5	34.1	36.7	38.9
85°	16.8	16.8	16.4	16.1	16.4	16.1	16.4	16.8	17.2	18.3	20.2
87.5°	10.5	10.9	10.2	9.5	8.5	7.9	7.4	7.2	7.2	7.0	6.8
90°	34.5	34.9	30.0	25.2	20.3	15.4	11.6	9.0	6.3	3.7	1.0
92.5°	31.8	31.7	30.6	29.4	28.3	27.1	25.6	23.6	21.7	19.7	17.8
95°	63.9	63.9	63.4	63.0	62.5	62.1	60.8	58.5	56.3	54.1	51.9
97.5°	107.4	107.4	106.5	105.7	104.9	104.0	102.6	100.7	98.7	96.8	94.8
100°	137.7	137.7	137.1	136.4	135.7	135.1	133.8	132.1	130.3	128.5	126.7
102.5°	170.6	170.5	169.6	168.8	167.9	167.1	165.9	164.5	163.1	161.7	160.3
105°	220.0	219.5	219.1	218.7	218.2	217.8	217.2	216.6	215.9	215.2	214.6
107.5°	273.8	273.6	273.6	273.6	273.6	273.6	273.2	272.2	271.2	270.2	269.2
110°	310.4	310.4	310.4	310.4	310.4	310.4	309.7	308.4	307.0	305.7	304.4



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	347.4	347.9	348.1	348.2	348.4	348.6	348.0	346.7	345.4	344.0	342.7
115°	403.0	403.2	403.6	404.1	404.5	404.9	404.5	403.2	401.8	400.5	399.2
117.5°	457.3	457.9	459.1	460.3	461.6	462.8	462.6	460.8	459.0	457.2	455.5
120°	493.0	493.0	494.8	496.5	498.3	500.1	500.1	498.3	496.5	494.8	493.0
122.5°	530.8	531.3	532.6	533.8	535.0	536.3	535.8	533.7	531.6	529.4	527.3
125°	586.1	586.8	587.5	588.1	588.8	589.5	588.8	586.8	584.8	582.8	580.8
127.5°	639.9	640.7	641.5	642.3	643.1	643.9	643.0	640.5	638.0	635.4	632.9
130°	676.2	676.6	677.1	677.5	677.9	678.4	677.2	674.3	671.4	668.5	665.6
132.5°	712.4	713.3	713.2	713.2	713.1	713.0	711.8	709.4	707.1	704.7	702.4
135°	764.2	764.4	764.0	763.5	763.1	762.7	761.2	758.8	756.3	753.9	751.5
137.5°	814.6	814.7	814.2	813.6	813.0	812.4	811.1	809.1	807.1	805.1	803.2
140°	848.3	848.3	847.2	846.0	844.9	843.8	842.3	840.3	838.3	836.3	834.3
142.5°	878.8	878.6	877.8	877.1	876.3	875.6	874.2	872.2	870.2	868.2	866.2
145°	925.3	925.1	923.8	922.4	921.1	919.8	918.3	916.8	915.2	913.7	912.1
147.5°	965.9	965.4	964.5	963.6	962.8	961.9	960.5	958.6	956.8	954.9	953.0
150°	991.6	991.0	990.1	989.2	988.3	987.4	986.3	985.0	983.6	982.3	981.0
152.5°	1017.4	1016.5	1015.4	1014.4	1013.3	1012.3	1011.1	1009.7	1008.4	1007.1	1005.7
155°	1050.0	1048.8	1048.2	1047.5	1046.9	1046.2	1045.5	1044.9	1044.2	1043.5	1042.9
157.5°	1079.9	1078.4	1078.0	1077.6	1077.2	1076.8	1076.4	1075.9	1075.5	1075.0	1074.6
160°	1098.1	1096.7	1096.5	1096.3	1096.1	1095.9	1095.5	1095.1	1094.6	1094.2	1093.8
162.5°	1114.2	1112.7	1112.5	1112.3	1112.1	1111.8	1111.7	1111.6	1111.5	1111.4	1111.3
165°	1135.2	1133.7	1133.7	1133.7	1133.7	1133.7	1133.8	1134.0	1134.2	1134.5	1134.7
167.5°	1152.6	1151.0	1151.1	1151.1	1151.2	1151.2	1151.6	1152.2	1152.9	1153.6	1154.2
170°	1162.2	1160.6	1160.8	1161.1	1161.3	1161.5	1161.9	1162.6	1163.3	1163.9	1164.6
172.5°	1169.4	1167.8	1168.0	1168.2	1168.5	1168.7	1169.1	1169.8	1170.5	1171.1	1171.8
175°	1177.1	1175.6	1176.0	1176.5	1176.9	1177.4	1177.9	1178.6	1179.2	1179.9	1180.6
177.5°	1181.2	1180.2	1180.5	1180.9	1181.2	1181.6	1182.0	1182.6	1183.1	1183.6	1184.2
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	976.8	978.3	983.1	987.9	993.2	994.7	997.1	995.0	994.4	1000.1	1004.3
5°	979.6	986.3	999.4	1011.3	1021.4	1028.5	1036.0	1039.0	1044.6	1052.4	1062.1
7.5°	976.4	989.5	1010.1	1027.5	1046.4	1060.1	1070.8	1079.9	1090.9	1105.8	1122.0
10°	972.9	990.4	1015.4	1036.7	1059.9	1077.4	1092.0	1106.2	1122.6	1143.2	1164.4
12.5°	966.3	987.1	1018.4	1043.6	1073.3	1090.6	1110.2	1140.8	1158.5	1187.1	1217.0
15°	953.1	976.2	1019.9	1050.9	1084.5	1117.4	1153.6	1182.7	1211.9	1228.7	1270.9
17.5°	933.4	967.4	1015.8	1052.0	1094.7	1146.4	1187.1	1220.2	1253.8	1281.0	1302.2
20°	917.6	954.6	1009.8	1053.2	1103.9	1159.6	1206.3	1239.9	1269.0	1291.8	1304.9
22.5°	897.6	944.1	997.9	1048.7	1113.5	1168.6	1217.6	1244.1	1268.4	1279.5	1284.5
25°	866.0	922.1	982.9	1044.9	1118.1	1176.4	1221.2	1237.3	1244.4	1233.5	1215.6
27.5°	832.1	894.5	965.7	1037.9	1115.3	1171.3	1203.4	1200.9	1188.9	1153.8	1125.8
30°	806.7	875.4	951.9	1030.7	1108.4	1162.9	1181.6	1162.9	1135.7	1096.5	1056.5
32.5°	780.1	851.2	937.3	1020.6	1095.9	1143.8	1147.9	1115.7	1073.5	1029.0	979.1
35°	739.8	816.8	909.7	997.9	1069.2	1099.5	1081.5	1024.8	974.7	913.9	845.9
37.5°	694.3	779.3	872.5	964.6	1029.3	1037.2	992.7	932.9	862.3	790.8	710.8
40°	660.3	750.3	846.3	939.2	996.4	988.2	931.4	865.7	781.6	694.3	619.9
42.5°	629.8	719.8	817.6	908.8	954.6	932.0	865.7	785.0	694.7	612.4	544.4
45°	577.0	669.6	769.7	857.8	884.0	843.3	755.5	665.9	577.0	508.3	454.5
47.5°	525.8	617.3	716.4	793.9	803.2	748.4	652.5	560.3	483.9	427.9	390.0
50°	488.1	580.0	678.2	747.3	744.3	678.2	579.6	491.8	428.0	382.8	357.4
52.5°	454.3	541.1	635.5	698.3	682.5	610.4	516.3	438.4	385.9	350.5	327.5
55°	401.8	482.1	571.8	622.2	593.1	513.1	433.6	370.8	332.0	305.5	287.6
57.5°	349.7	425.0	501.7	532.8	500.6	426.8	360.5	315.0	285.8	266.1	254.5
60°	317.4	383.2	451.5	478.4	439.9	374.2	321.9	281.2	257.7	241.6	231.2
62.5°	285.2	344.0	408.5	423.1	387.9	332.4	286.1	252.2	232.9	218.6	208.8
65°	241.3	289.4	338.4	348.1	315.6	272.6	236.0	214.0	196.8	186.4	178.5
67.5°	197.9	236.5	271.2	279.0	250.6	220.8	194.3	175.2	163.5	154.8	148.2
70°	172.2	202.8	231.2	237.5	214.7	188.2	168.1	152.7	142.3	134.8	128.5
72.5°	145.0	170.5	194.1	198.4	179.8	159.5	143.0	130.9	121.7	116.9	110.8
75°	110.9	125.9	144.2	145.3	133.0	120.6	107.9	100.1	95.2	89.3	86.3
77.5°	78.3	90.0	100.5	102.5	95.2	86.8	79.7	73.5	69.4	66.6	63.9
80°	59.8	69.1	73.6	76.2	71.0	65.0	60.9	56.8	54.2	52.3	50.4
82.5°	42.7	48.5	52.7	54.7	51.8	48.3	44.1	41.8	39.8	38.2	37.6
85°	21.7	24.3	26.9	27.6	26.9	25.4	23.2	23.2	22.0	21.7	21.7
87.5°	8.2	9.9	10.5	11.9	12.0	13.0	14.0	14.7	15.4	15.0	14.6
90°	3.7	6.3	9.0	11.6	15.4	20.3	25.2	30.0	34.9	34.5	34.0
92.5°	19.7	21.7	23.6	25.6	27.1	28.3	29.4	30.6	31.7	31.8	31.9
95°	54.1	56.3	58.5	60.8	62.1	62.5	63.0	63.4	63.9	63.9	63.9
97.5°	96.8	98.7	100.7	102.6	104.0	104.9	105.7	106.5	107.4	107.4	107.4
100°	128.5	130.3	132.1	133.8	135.1	135.7	136.4	137.1	137.7	137.7	137.7
102.5°	161.7	163.1	164.5	165.9	167.1	167.9	168.8	169.6	170.5	170.6	170.8
105°	215.2	215.9	216.6	217.2	217.8	218.2	218.7	219.1	219.5	220.0	220.4
107.5°	270.2	271.2	272.2	273.2	273.6	273.6	273.6	273.6	273.6	273.8	274.0
110°	305.7	307.0	308.4	309.7	310.4	310.4	310.4	310.4	310.4	310.4	310.4



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	344.0	345.4	346.7	348.0	348.6	348.4	348.2	348.1	347.9	347.4	346.8
115°	400.5	401.8	403.2	404.5	404.9	404.5	404.1	403.6	403.2	403.0	402.7
117.5°	457.2	459.0	460.8	462.6	462.8	461.6	460.3	459.1	457.9	457.3	456.8
120°	494.8	496.5	498.3	500.1	500.1	498.3	496.5	494.8	493.0	493.0	493.0
122.5°	529.4	531.6	533.7	535.8	536.3	535.0	533.8	532.6	531.3	530.8	530.2
125°	582.8	584.8	586.8	588.8	589.5	588.8	588.1	587.5	586.8	586.1	585.5
127.5°	635.4	638.0	640.5	643.0	643.9	643.1	642.3	641.5	640.7	639.9	639.1
130°	668.5	671.4	674.3	677.2	678.4	677.9	677.5	677.1	676.6	676.2	675.7
132.5°	704.7	707.1	709.4	711.8	713.0	713.1	713.2	713.2	713.3	712.4	711.4
135°	753.9	756.3	758.8	761.2	762.7	763.1	763.5	764.0	764.4	764.2	764.0
137.5°	805.1	807.1	809.1	811.1	812.4	813.0	813.6	814.2	814.7	814.6	814.4
140°	836.3	838.3	840.3	842.3	843.8	844.9	846.0	847.2	848.3	848.3	848.3
142.5°	868.2	870.2	872.2	874.2	875.6	876.3	877.1	877.8	878.6	878.8	879.0
145°	913.7	915.2	916.8	918.3	919.8	921.1	922.4	923.8	925.1	925.3	925.5
147.5°	954.9	956.8	958.6	960.5	961.9	962.8	963.6	964.5	965.4	965.9	966.4
150°	982.3	983.6	985.0	986.3	987.4	988.3	989.2	990.1	991.0	991.6	992.3
152.5°	1007.1	1008.4	1009.7	1011.1	1012.3	1013.3	1014.4	1015.4	1016.5	1017.4	1018.2
155°	1043.5	1044.2	1044.9	1045.5	1046.2	1046.9	1047.5	1048.2	1048.8	1050.0	1051.1
157.5°	1075.0	1075.5	1075.9	1076.4	1076.8	1077.2	1077.6	1078.0	1078.4	1079.9	1081.4
160°	1094.2	1094.6	1095.1	1095.5	1095.9	1096.1	1096.3	1096.5	1096.7	1098.1	1099.4
162.5°	1111.4	1111.5	1111.6	1111.7	1111.8	1112.1	1112.3	1112.5	1112.7	1114.2	1115.7
165°	1134.5	1134.2	1134.0	1133.8	1133.7	1133.7	1133.7	1133.7	1133.7	1135.2	1136.8
167.5°	1153.6	1152.9	1152.2	1151.6	1151.2	1151.2	1151.1	1151.1	1151.0	1152.6	1154.1
170°	1163.9	1163.3	1162.6	1161.9	1161.5	1161.3	1161.1	1160.8	1160.6	1162.2	1163.7
172.5°	1171.1	1170.5	1169.8	1169.1	1168.7	1168.5	1168.2	1168.0	1167.8	1169.4	1170.9
175°	1179.9	1179.2	1178.6	1177.9	1177.4	1176.9	1176.5	1176.0	1175.6	1177.1	1178.7
177.5°	1183.6	1183.1	1182.6	1182.0	1181.6	1181.2	1180.9	1180.5	1180.2	1181.2	1182.3
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1007.9	1012.1	1012.1	1012.7	1017.4	1016.9	1016.6
5°	1072.6	1078.9	1079.7	1086.4	1090.9	1089.4	1085.3
7.5°	1133.6	1145.4	1154.4	1159.4	1165.3	1168.9	1167.3
10°	1182.0	1199.2	1209.6	1216.7	1225.3	1231.7	1229.4
12.5°	1225.9	1246.4	1260.7	1272.9	1274.0	1282.2	1276.6
15°	1294.4	1316.1	1318.3	1327.3	1334.4	1333.6	1334.0
17.5°	1317.0	1324.0	1325.4	1325.6	1325.7	1323.1	1317.4
20°	1309.0	1306.4	1300.0	1295.2	1286.6	1285.4	1278.0
22.5°	1270.7	1262.4	1246.5	1236.0	1222.6	1219.1	1217.0
25°	1195.4	1177.1	1151.7	1127.5	1120.7	1107.7	1111.4
27.5°	1092.1	1063.6	1036.1	1016.4	998.6	979.0	984.6
30°	1019.5	987.4	948.6	918.7	899.7	881.0	877.6
32.5°	932.9	885.8	842.5	816.2	787.0	775.2	762.3
35°	783.5	737.6	694.6	657.7	636.4	619.9	605.0
37.5°	649.1	596.3	561.6	531.7	516.3	506.9	509.2
40°	565.8	519.5	494.1	471.3	457.1	450.4	451.9
42.5°	498.3	463.6	442.7	427.1	417.1	413.3	412.4
45°	421.6	402.2	385.0	376.1	371.2	367.1	364.5
47.5°	369.4	353.5	343.8	338.5	334.2	330.1	330.0
50°	338.0	327.5	320.8	315.2	311.8	308.8	311.5
52.5°	314.1	304.5	297.8	292.8	291.5	288.8	288.8
55°	278.6	271.1	266.3	261.8	259.6	258.1	256.2
57.5°	246.3	239.2	234.8	231.9	227.7	226.2	225.6
60°	223.3	217.7	213.2	209.5	207.6	204.7	204.7
62.5°	202.1	196.5	192.3	189.5	186.4	185.2	185.5
65°	171.4	166.9	162.8	159.8	159.1	156.9	157.6
67.5°	143.2	140.2	135.9	134.2	132.8	131.6	130.7
70°	124.4	121.4	119.1	116.9	115.8	115.8	115.8
72.5°	108.5	104.9	103.6	100.8	101.4	100.2	99.0
75°	84.0	81.8	80.7	79.5	77.7	77.7	77.7
77.5°	61.8	61.2	59.8	58.6	58.2	57.8	58.0
80°	47.8	47.4	46.7	46.7	45.9	45.6	44.8
82.5°	36.7	35.8	35.3	35.0	34.9	34.8	34.7
85°	20.9	20.2	20.2	20.5	19.8	19.8	20.2
87.5°	14.8	14.7	14.4	14.4	14.8	14.5	14.6
90°	33.6	33.2	33.0	33.3	33.5	33.7	33.9
92.5°	32.0	32.1	32.2	32.2	32.2	32.3	32.3
95°	63.9	63.9	63.6	63.2	62.8	62.3	61.9
97.5°	107.4	107.4	107.4	107.3	107.3	107.2	107.2
100°	137.7	137.7	137.6	137.4	137.2	136.9	136.7
102.5°	171.0	171.2	171.1	170.9	170.7	170.5	170.3
105°	220.9	221.3	221.5	221.5	221.5	221.5	221.5
107.5°	274.2	274.3	273.9	272.9	271.9	270.9	269.8
110°	310.4	310.4	310.0	309.4	308.7	308.0	307.4



TEST NUMBER: P331313

CATALOG NUMBER: SA2XXDIP-C485D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	346.3	345.8	345.2	344.8	344.3	343.8	343.3
115°	402.5	402.3	401.8	401.2	400.5	399.8	399.2
117.5°	456.3	455.7	455.1	454.5	453.8	453.1	452.5
120°	493.0	493.0	492.7	492.0	491.3	490.7	490.0
122.5°	529.7	529.2	528.7	528.2	527.7	527.2	526.7
125°	584.8	584.1	583.7	583.5	583.2	583.0	582.8
127.5°	638.3	637.5	636.7	636.0	635.3	634.6	633.9
130°	675.3	674.8	674.2	673.3	672.4	671.5	670.6
132.5°	710.4	709.4	708.6	707.9	707.2	706.5	705.8
135°	763.8	763.5	763.1	762.4	761.8	761.1	760.4
137.5°	814.2	814.0	813.5	812.6	811.7	810.8	809.9
140°	848.3	848.3	847.8	846.9	846.0	845.2	844.3
142.5°	879.1	879.3	879.0	878.1	877.2	876.3	875.4
145°	925.8	926.0	925.7	924.8	923.9	923.0	922.1
147.5°	966.9	967.4	967.2	966.4	965.5	964.7	963.8
150°	993.0	993.6	993.6	993.0	992.3	991.6	991.0
152.5°	1019.0	1019.9	1019.9	1019.0	1018.2	1017.4	1016.5
155°	1052.2	1053.3	1053.5	1052.8	1052.2	1051.5	1050.8
157.5°	1082.9	1084.4	1084.6	1083.6	1082.5	1081.4	1080.4
160°	1100.7	1102.1	1102.3	1101.4	1100.5	1099.6	1098.7
162.5°	1117.2	1118.7	1119.0	1117.9	1116.8	1115.8	1114.7
165°	1138.3	1139.9	1140.1	1139.0	1137.9	1136.8	1135.7
167.5°	1155.7	1157.2	1157.4	1156.3	1155.1	1154.0	1152.8
170°	1165.3	1166.8	1166.9	1165.6	1164.3	1162.9	1161.6
172.5°	1172.5	1174.0	1174.1	1172.8	1171.5	1170.1	1168.8
175°	1180.2	1181.8	1181.9	1180.6	1179.2	1177.9	1176.6
177.5°	1183.4	1184.4	1184.4	1183.4	1182.3	1181.2	1180.2
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6

(END OF REPORT)