

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: P332517

Luminaire Tested: **SA4XXDIP-C350D1035U835-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332517
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C350D1035U835-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

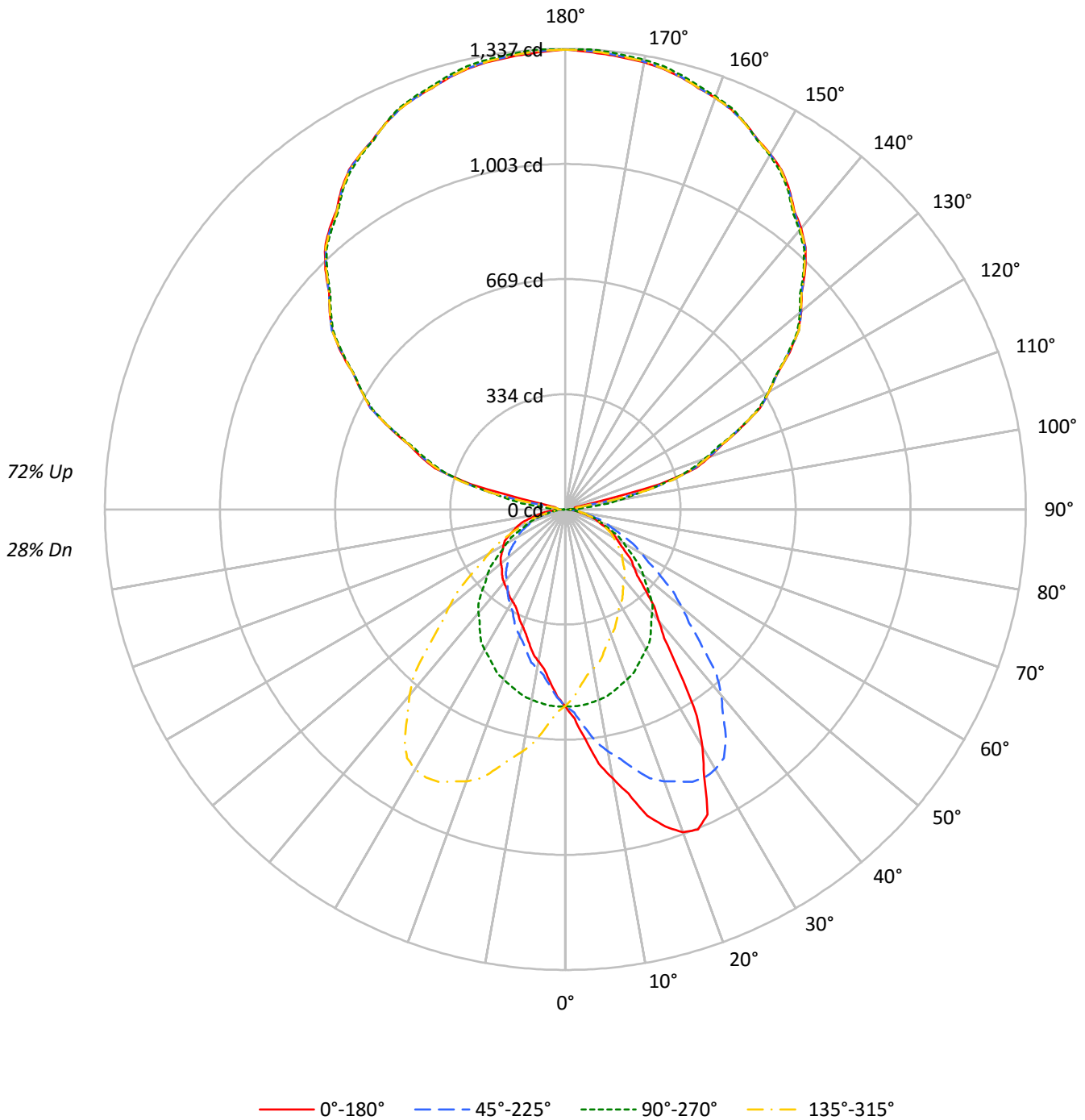
Lumens per Lamp: N/A
Luminaire Lumens: 5708.7 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	78	72	67	75	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	30	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	45	35	29	24	28	24	20	22	18	16	15	13	12	9
9	47	36	28	24	42	32	26	22	26	21	18	20	17	14	14	12	10	8
10	44	33	26	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4612	4612	4612	4612
5°	5431	4624	4081	4624
10°	6503	4604	3674	4604
15°	7694	4557	3375	4557
20°	8568	4509	3107	4509
25°	8706	4440	2922	4440
30°	7408	4373	2864	4373
35°	5695	4263	2864	4263
40°	4440	4135	2918	4135
45°	3701	3942	2967	3942
50°	3258	3706	3067	3706
55°	2985	3424	3191	3424
60°	2796	3171	3339	3171
65°	2604	2888	3463	2888
70°	2379	2608	3541	2608
75°	2127	2296	3500	2296
80°	1781	1883	3389	1883
85°	1315	1362	3242	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	1.0
10°-20°	171.6	3.0
20°-30°	272.0	4.8
30°-40°	302.8	5.3
40°-50°	275.6	4.8
50°-60°	225.2	3.9
60°-70°	160.8	2.8
70°-80°	88.5	1.6
80°-90°	28.0	0.5
90°-100°	45.7	0.8
100°-110°	291.1	5.1
110°-120°	556.8	9.8
120°-130°	706.8	12.4
130°-140°	756.2	13.2
140°-150°	707.2	12.4
150°-160°	570.3	10.0
160°-170°	367.8	6.4
170°-180°	126.8	2.2
0°-30°	499.3	8.7
0°-40°	802.0	14.0
0°-60°	1302.8	22.8
0°-90°	1580.1	27.7
90°-120°	893.5	15.7
90°-150°	3063.7	53.7
90°-180°	4129.0	72.3
0°-180°	5708.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	571	571	571	571	571	
5°	670	571	504	571	670	68
15°	921	545	404	545	921	260
25°	977	498	328	498	977	431
35°	578	433	291	433	578	367
45°	324	345	260	345	324	255
55°	212	243	227	243	212	192
65°	136	151	181	151	136	135
75°	68	74	112	74	68	72
85°	14	15	35	15	14	18
90°	30	3	30	3	30	13
95°	29	55	29	55	29	23
105°	284	300	284	300	284	248
115°	565	561	565	561	565	559
125°	795	789	795	789	795	708
135°	985	978	985	978	985	758
145°	1134	1128	1134	1128	1134	709
155°	1236	1237	1236	1237	1236	570
165°	1299	1305	1299	1305	1299	367
175°	1327	1335	1327	1335	1327	126
180°	1335	1335	1335	1335	1335	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	608.0	607.9	606.0	605.6	604.3	602.6	602.2	599.1	593.1	590.2	589.5
5°	670.2	675.0	668.8	667.6	666.9	659.1	655.1	650.4	639.5	633.1	628.1
7.5°	744.5	745.0	742.3	740.2	734.1	727.3	717.1	706.2	693.2	679.8	669.6
10°	793.3	795.2	792.1	791.7	779.6	772.0	756.9	744.1	729.4	713.1	698.2
12.5°	844.8	842.2	840.6	830.5	828.2	814.4	796.8	783.7	761.0	742.2	722.4
15°	920.6	915.4	912.1	898.2	891.3	872.1	853.4	839.0	809.4	781.2	759.9
17.5°	965.1	970.3	962.7	956.9	939.2	925.7	906.6	876.3	853.2	818.2	791.3
20°	997.3	997.8	993.5	987.6	973.7	956.6	935.8	902.7	875.0	840.2	803.2
22.5°	1006.0	1006.1	1004.3	998.8	988.2	974.4	953.4	925.7	892.2	854.4	817.4
25°	977.4	976.5	978.6	984.8	980.8	976.5	964.4	943.8	912.6	872.6	832.8
27.5°	871.2	877.8	889.8	904.9	919.5	930.6	933.7	929.5	910.2	877.3	835.6
30°	794.7	802.8	811.8	826.9	856.3	873.1	891.5	905.5	897.7	871.4	832.6
32.5°	710.7	712.7	726.0	743.2	770.1	802.4	831.7	860.1	869.5	855.7	823.3
35°	577.9	581.3	595.7	612.7	645.6	685.2	729.2	768.5	800.9	813.9	797.3
37.5°	471.6	481.1	491.3	509.6	538.6	574.2	619.9	670.8	719.1	751.5	757.0
40°	421.3	427.2	434.5	448.5	473.1	508.1	547.4	605.6	657.0	703.4	718.5
42.5°	381.5	385.0	389.5	402.1	420.8	455.7	491.6	542.8	594.3	649.8	675.2
45°	324.2	327.8	335.4	342.7	356.9	381.0	414.4	456.5	508.4	561.8	608.7
47.5°	282.9	285.1	289.6	297.5	309.6	325.5	352.6	387.8	435.8	487.8	537.7
50°	259.4	261.3	264.8	271.9	281.2	295.4	317.6	350.5	388.1	440.4	489.4
52.5°	240.8	241.6	244.2	249.0	256.4	268.3	286.6	313.8	348.8	395.4	444.2
55°	212.1	213.0	215.4	218.9	225.3	232.9	246.8	267.2	297.7	338.2	380.6
57.5°	188.4	189.1	191.0	192.4	197.7	203.8	214.6	229.1	252.2	286.6	324.4
60°	173.2	172.8	175.1	176.3	179.9	185.1	193.4	207.3	227.4	255.1	289.9
62.5°	158.5	157.8	159.8	161.4	163.4	167.8	174.6	185.5	201.9	226.9	257.0
65°	136.3	135.4	136.6	138.5	140.3	142.7	147.7	157.4	170.4	188.4	211.3
67.5°	114.1	115.1	115.3	116.2	117.3	120.5	123.9	130.8	140.0	154.4	173.8
70°	100.8	101.1	102.0	102.0	102.7	105.6	108.4	112.4	121.4	134.7	150.5
72.5°	87.6	88.6	88.2	88.9	89.5	91.4	93.4	97.3	104.9	114.8	128.2
75°	68.2	68.9	68.9	69.1	69.8	70.5	72.2	75.0	80.5	87.8	97.0
77.5°	49.7	49.8	50.1	51.0	51.0	52.1	53.3	55.6	58.3	63.3	69.0
80°	38.3	38.8	38.6	39.1	39.1	40.0	40.5	43.3	44.5	47.8	52.3
82.5°	28.1	28.6	28.5	29.2	29.6	29.8	30.4	31.6	32.8	35.7	37.5
85°	14.2	14.7	14.2	14.7	15.4	15.6	16.3	16.6	17.5	18.2	19.9
87.5°	10.2	10.6	10.5	10.6	10.9	10.9	10.9	10.4	10.9	10.8	11.2
90°	29.9	29.5	29.1	28.6	28.2	27.3	26.0	24.6	23.3	22.0	20.2
92.5°	27.6	27.5	27.4	27.3	27.2	26.5	25.2	23.8	22.5	21.2	19.4
95°	28.9	28.7	28.5	28.3	28.1	27.3	26.0	24.6	23.3	22.0	21.7
97.5°	28.0	27.7	27.5	27.3	27.1	26.9	26.8	26.6	26.5	26.4	51.1
100°	28.0	27.7	27.5	27.3	27.1	28.8	32.6	36.4	40.2	43.9	74.5
102.5°	28.8	28.7	28.7	28.6	28.6	48.9	89.6	130.3	170.9	211.6	215.6
105°	284.5	292.5	300.5	308.5	316.5	319.4	317.4	315.5	313.5	311.5	310.4
107.5°	396.5	395.7	394.8	394.0	393.1	392.2	391.3	390.3	389.3	388.3	386.8
110°	445.2	444.6	443.9	443.2	442.6	442.0	441.6	441.1	440.7	440.2	438.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	493.9	493.1	492.3	491.4	490.6	490.2	490.3	490.4	490.5	490.5	489.9
115°	565.0	565.0	565.0	565.0	565.0	564.8	564.4	563.9	563.5	563.0	563.2
117.5°	637.3	637.4	637.5	637.6	637.7	637.7	637.8	637.9	638.0	638.1	637.6
120°	682.8	683.3	683.7	684.1	684.6	684.6	684.1	683.7	683.3	682.8	683.0
122.5°	727.5	728.0	728.4	728.9	729.3	729.4	729.1	728.9	728.6	728.3	728.0
125°	794.6	794.4	794.2	794.0	793.7	793.3	792.6	792.0	791.3	790.6	791.1
127.5°	853.5	853.7	853.9	854.1	854.2	854.4	854.5	854.7	854.8	854.9	853.9
130°	893.5	893.5	893.5	893.5	893.5	893.3	893.1	892.9	892.7	892.5	891.8
132.5°	930.2	930.4	930.5	930.7	930.9	930.9	930.7	930.4	930.2	930.0	929.1
135°	985.3	984.8	984.4	984.0	983.5	983.1	982.6	982.2	981.7	981.3	980.4
137.5°	1032.4	1032.5	1032.7	1032.8	1032.9	1032.8	1032.3	1031.8	1031.3	1030.8	1029.8
140°	1065.2	1064.9	1064.7	1064.5	1064.3	1063.8	1063.2	1062.5	1061.8	1061.2	1060.7
142.5°	1092.3	1092.3	1092.2	1092.2	1092.1	1091.9	1091.4	1090.9	1090.4	1089.9	1089.6
145°	1134.0	1133.6	1133.1	1132.7	1132.3	1131.9	1131.7	1131.5	1131.3	1131.0	1131.0
147.5°	1168.6	1168.4	1168.1	1167.9	1167.7	1167.5	1167.3	1167.1	1167.0	1166.8	1167.0
150°	1190.9	1190.7	1190.5	1190.3	1190.0	1189.9	1189.9	1189.9	1189.9	1189.9	1190.2
152.5°	1210.1	1210.2	1210.4	1210.5	1210.6	1210.5	1210.2	1209.8	1209.5	1209.1	1209.5
155°	1235.9	1236.5	1237.2	1237.9	1238.5	1238.4	1237.5	1236.6	1235.7	1234.9	1235.5
157.5°	1257.4	1258.6	1259.7	1260.9	1262.0	1262.0	1260.9	1259.7	1258.6	1257.4	1258.2
160°	1271.8	1273.1	1274.5	1275.8	1277.1	1277.1	1275.8	1274.5	1273.1	1271.8	1272.0
162.5°	1283.0	1284.5	1286.0	1287.5	1289.0	1289.1	1287.8	1286.4	1285.1	1283.8	1284.0
165°	1298.7	1300.7	1302.7	1304.7	1306.7	1306.8	1305.1	1303.3	1301.5	1299.7	1299.7
167.5°	1310.5	1312.7	1315.0	1317.2	1319.4	1319.5	1317.6	1315.6	1313.7	1311.7	1311.9
170°	1317.7	1319.9	1322.2	1324.4	1326.6	1326.8	1325.0	1323.3	1321.5	1319.7	1319.5
172.5°	1321.7	1324.1	1326.5	1328.9	1331.3	1331.6	1329.8	1328.1	1326.3	1324.5	1324.3
175°	1326.7	1329.4	1332.0	1334.7	1337.3	1337.7	1335.7	1333.7	1331.7	1329.7	1329.5
177.5°	1329.9	1332.0	1334.2	1336.3	1338.4	1338.8	1337.3	1335.9	1334.5	1333.1	1332.7
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	589.7	587.0	585.1	583.6	579.5	577.0	575.1	572.5	569.4	566.2	562.2
5°	623.1	615.1	609.2	600.2	591.7	584.6	577.2	570.6	562.6	553.8	547.4
7.5°	658.3	646.3	631.0	617.7	602.7	589.7	578.1	566.2	553.8	541.7	530.7
10°	680.7	665.3	648.2	628.1	609.2	592.4	576.8	561.6	546.9	532.3	519.7
12.5°	704.7	685.5	660.3	636.8	615.6	593.1	574.3	555.7	538.0	522.6	508.0
15°	737.0	709.3	680.2	648.7	620.8	594.5	568.7	545.3	525.4	505.0	490.8
17.5°	756.8	722.5	689.3	656.4	622.6	589.4	561.6	534.6	509.7	489.5	471.6
20°	769.9	735.8	694.4	661.5	621.3	587.2	555.0	524.9	498.9	477.4	458.9
22.5°	781.2	741.9	700.4	657.1	617.1	580.9	545.7	515.5	488.9	466.2	448.5
25°	787.4	742.2	697.2	654.1	608.7	565.9	533.9	498.4	470.0	446.1	427.2
27.5°	788.1	739.7	688.8	641.0	594.1	554.2	513.9	482.1	452.7	427.4	409.2
30°	786.0	735.6	680.9	629.1	582.0	538.7	503.6	469.1	439.0	413.9	395.0
32.5°	779.3	726.9	670.7	615.8	567.0	524.6	488.5	455.6	426.3	401.6	381.7
35°	760.2	708.3	648.5	591.4	541.5	498.7	466.0	432.6	403.3	379.9	360.7
37.5°	730.2	683.4	622.5	563.5	514.4	471.4	439.0	408.9	382.4	358.6	339.0
40°	704.1	662.9	601.8	544.3	491.3	450.4	420.1	392.4	366.1	343.6	324.9
42.5°	674.0	638.1	581.8	520.9	469.7	428.6	399.1	374.2	349.5	328.7	310.0
45°	620.3	596.6	543.6	487.3	434.0	395.2	367.1	345.3	324.5	304.1	288.5
47.5°	558.6	546.8	502.2	448.7	398.2	359.9	335.5	315.4	297.1	279.9	266.1
50°	517.1	511.4	472.9	421.3	373.0	337.0	312.4	295.1	279.5	264.4	251.3
52.5°	476.2	476.0	441.2	394.0	349.3	314.7	290.2	274.1	260.6	248.3	236.6
55°	413.7	420.3	393.1	351.0	311.0	279.7	257.7	243.3	233.8	223.7	214.9
57.5°	356.3	367.3	344.8	307.7	274.3	245.6	226.4	215.6	205.5	199.3	192.9
60°	318.8	329.2	311.7	280.5	249.0	224.4	206.1	196.4	187.7	183.4	178.9
62.5°	285.5	294.7	281.8	252.8	225.5	201.8	186.4	177.1	171.2	166.6	163.6
65°	237.9	245.7	234.5	213.5	190.0	171.1	158.6	151.2	145.6	143.7	140.3
67.5°	192.3	199.4	193.4	175.5	156.7	142.3	132.5	125.5	122.1	120.5	118.1
70°	165.2	172.3	165.9	150.3	135.8	123.8	114.5	110.5	107.0	106.3	103.0
72.5°	142.3	147.1	140.7	128.5	116.2	106.0	98.8	94.6	92.8	91.5	89.7
75°	106.7	111.0	106.7	97.3	88.5	81.4	75.3	73.6	71.5	70.8	69.6
77.5°	75.5	79.2	76.0	70.1	63.5	58.0	54.7	52.6	52.1	50.9	51.5
80°	57.7	60.1	57.0	53.0	47.8	44.0	41.7	40.5	39.1	38.6	39.5
82.5°	41.5	42.5	40.9	38.2	34.4	31.9	30.3	28.9	28.6	28.7	28.7
85°	21.5	21.3	21.1	18.7	17.5	15.9	14.9	14.7	14.4	14.9	15.4
87.5°	10.9	10.7	10.2	9.0	7.9	6.9	6.2	5.5	6.2	6.9	7.6
90°	18.4	16.6	14.9	12.8	10.3	7.9	5.4	3.0	5.4	7.9	10.3
92.5°	17.6	15.8	14.1	13.1	13.0	12.8	12.7	12.6	12.7	12.8	13.0
95°	21.5	21.3	21.1	24.7	32.3	39.8	47.4	54.9	47.4	39.8	32.3
97.5°	75.9	100.6	125.4	135.4	130.7	126.0	121.3	116.6	121.3	126.0	130.7
100°	105.2	135.8	166.4	179.7	175.7	171.7	167.7	163.7	167.7	171.7	175.7
102.5°	219.6	223.6	227.6	228.1	225.2	222.3	219.4	216.4	219.4	222.3	225.2
105°	309.2	308.1	307.0	305.8	304.5	303.1	301.8	300.5	301.8	303.1	304.5
107.5°	385.3	383.8	382.3	381.2	380.5	379.9	379.2	378.5	379.2	379.9	380.5
110°	437.6	436.2	434.9	433.9	433.2	432.6	431.9	431.3	431.9	432.6	433.2



TEST NUMBER: P332517

CATALOG NUMBER: SA4XXDIP-C350D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	489.3	488.7	488.1	487.2	486.0	484.8	483.6	482.4	483.6	484.8	486.0
115°	563.5	563.7	563.9	563.7	563.0	562.4	561.7	561.0	561.7	562.4	563.0
117.5°	637.1	636.6	636.1	635.5	634.6	633.7	632.8	631.9	632.8	633.7	634.6
120°	683.3	683.5	683.7	683.4	682.5	681.6	680.7	679.8	680.7	681.6	682.5
122.5°	727.7	727.4	727.1	726.7	726.1	725.6	725.1	724.5	725.1	725.6	726.1
125°	791.5	792.0	792.4	792.2	791.3	790.4	789.5	788.6	789.5	790.4	791.3
127.5°	852.9	851.9	850.8	850.2	850.0	849.8	849.5	849.3	849.5	849.8	850.0
130°	891.1	890.5	889.8	889.3	889.1	888.9	888.7	888.5	888.7	888.9	889.1
132.5°	928.3	927.5	926.6	926.0	925.6	925.2	924.8	924.4	924.8	925.2	925.6
135°	979.5	978.6	977.7	977.4	977.6	977.9	978.1	978.3	978.1	977.9	977.6
137.5°	1028.9	1027.9	1026.9	1026.4	1026.3	1026.2	1026.1	1026.0	1026.1	1026.2	1026.3
140°	1060.3	1059.8	1059.4	1058.9	1058.5	1058.1	1057.6	1057.2	1057.6	1058.1	1058.5
142.5°	1089.4	1089.1	1088.8	1088.3	1087.5	1086.7	1085.9	1085.1	1085.9	1086.7	1087.5
145°	1131.0	1131.0	1131.0	1130.7	1130.0	1129.4	1128.7	1128.0	1128.7	1129.4	1130.0
147.5°	1167.2	1167.4	1167.7	1167.2	1165.9	1164.7	1163.4	1162.2	1163.4	1164.7	1165.9
150°	1190.4	1190.6	1190.8	1190.5	1189.6	1188.7	1187.8	1186.9	1187.8	1188.7	1189.6
152.5°	1209.9	1210.3	1210.7	1210.5	1209.8	1209.1	1208.4	1207.7	1208.4	1209.1	1209.8
155°	1236.2	1236.9	1237.5	1237.7	1237.5	1237.3	1237.1	1236.9	1237.1	1237.3	1237.5
157.5°	1258.9	1259.7	1260.4	1260.9	1261.0	1261.1	1261.3	1261.4	1261.3	1261.1	1261.0
160°	1272.2	1272.5	1272.7	1273.1	1273.8	1274.5	1275.1	1275.8	1275.1	1274.5	1273.8
162.5°	1284.2	1284.4	1284.7	1285.2	1286.0	1286.9	1287.7	1288.6	1287.7	1286.9	1286.0
165°	1299.7	1299.7	1299.7	1300.3	1301.4	1302.5	1303.6	1304.7	1303.6	1302.5	1301.4
167.5°	1312.0	1312.1	1312.3	1312.9	1314.1	1315.2	1316.4	1317.5	1316.4	1315.2	1314.1
170°	1319.3	1319.0	1318.8	1319.4	1320.7	1322.0	1323.4	1324.7	1323.4	1322.0	1320.7
172.5°	1324.1	1323.8	1323.6	1324.2	1325.5	1326.8	1328.2	1329.5	1328.2	1326.8	1325.5
175°	1329.3	1329.0	1328.8	1329.4	1330.7	1332.0	1333.4	1334.7	1333.4	1332.0	1330.7
177.5°	1332.4	1332.0	1331.7	1332.1	1333.4	1334.6	1335.8	1337.1	1335.8	1334.6	1333.4
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



TEST NUMBER: P332517

CATALOG NUMBER: SA4XXDIP-C350D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	560.3	558.6	556.2	552.8	549.9	546.9	546.1	545.0	547.3	545.4	544.8
5°	542.0	537.0	530.6	523.3	519.0	512.9	511.7	509.3	506.9	506.7	504.3
7.5°	522.5	515.2	506.8	499.4	492.5	485.7	481.3	480.4	476.9	474.8	472.5
10°	510.0	501.0	491.3	484.2	476.2	469.1	464.1	461.3	458.9	456.3	453.9
12.5°	495.3	485.7	477.7	470.0	460.5	455.1	446.9	442.0	441.5	441.5	435.4
15°	478.1	468.6	456.3	445.4	440.2	429.8	425.3	419.6	416.1	412.5	409.7
17.5°	458.4	446.6	437.0	424.5	414.6	406.3	400.4	397.0	391.6	386.6	383.0
20°	446.1	433.6	423.4	410.1	399.3	389.1	384.1	379.4	375.4	371.1	367.1
22.5°	433.6	420.5	408.1	395.2	385.1	374.3	369.5	363.1	359.3	356.9	352.9
25°	413.9	399.7	385.5	373.2	362.8	353.3	347.0	342.0	337.7	335.8	333.2
27.5°	392.5	378.4	364.7	350.7	338.9	332.0	326.9	323.2	320.7	318.2	317.0
30°	378.9	364.2	349.6	336.5	325.7	318.8	314.1	311.5	309.6	308.4	307.2
32.5°	365.1	350.6	335.2	323.3	313.5	307.4	303.8	301.2	300.3	299.9	299.4
35°	342.9	328.3	314.1	303.4	294.2	291.8	288.7	287.3	286.8	288.5	289.2
37.5°	321.5	307.9	294.8	284.5	278.4	275.0	273.9	274.0	275.7	277.1	278.8
40°	307.7	294.4	282.1	273.1	267.4	265.3	264.8	266.0	267.9	269.6	271.5
42.5°	294.2	281.2	270.0	261.6	257.6	255.6	255.9	257.1	259.8	261.8	264.6
45°	273.4	262.5	251.6	244.7	241.4	241.9	241.9	244.0	246.6	249.7	252.8
47.5°	253.7	242.7	233.8	228.0	226.3	225.9	227.2	230.0	233.7	237.5	241.8
50°	240.5	230.0	222.2	217.0	215.1	215.8	217.7	220.3	224.8	229.6	234.1
52.5°	227.0	217.5	210.3	205.5	204.1	205.4	207.3	211.4	215.4	220.5	225.9
55°	206.1	198.1	192.4	188.9	188.4	189.1	191.2	195.7	201.4	207.8	213.0
57.5°	185.4	178.6	173.4	171.0	171.2	171.9	175.4	180.7	186.8	193.6	200.3
60°	171.3	165.2	160.9	159.0	159.3	160.7	165.0	169.9	177.5	184.1	191.2
62.5°	158.1	152.7	148.6	146.9	146.6	149.7	153.8	158.9	166.5	173.9	181.6
65°	136.8	132.5	129.2	128.3	129.0	131.4	136.6	143.4	149.8	157.6	165.7
67.5°	116.0	112.5	110.2	110.6	111.5	115.0	119.3	125.2	132.5	140.6	148.5
70°	102.7	99.4	97.5	97.7	99.2	103.4	107.2	113.1	120.9	129.2	135.8
72.5°	89.1	86.9	85.2	86.2	87.6	90.5	95.3	101.2	108.1	115.8	122.8
75°	68.4	68.4	67.5	68.2	70.3	73.1	76.7	82.8	89.7	95.9	101.5
77.5°	50.7	50.2	50.8	51.7	52.9	56.3	60.4	64.8	69.9	76.1	80.8
80°	38.8	39.1	40.2	41.7	42.1	44.7	49.0	53.0	57.0	62.2	66.7
82.5°	29.2	29.4	30.0	31.8	32.3	35.1	37.8	41.8	45.5	49.0	52.7
85°	15.9	15.9	17.0	17.8	18.9	20.8	22.5	24.9	28.2	30.5	34.1
87.5°	8.6	9.0	10.1	10.9	11.8	13.1	13.7	16.1	17.1	18.3	20.2
90°	12.8	14.9	16.6	18.4	20.2	22.0	23.3	24.6	26.0	27.3	28.2
92.5°	13.1	14.1	15.8	17.6	19.4	21.2	22.5	23.8	25.2	26.5	27.2
95°	24.7	21.1	21.3	21.5	21.7	22.0	23.3	24.6	26.0	27.3	28.1
97.5°	135.4	125.4	100.6	75.9	51.1	26.4	26.5	26.6	26.8	26.9	27.1
100°	179.7	166.4	135.8	105.2	74.5	43.9	40.2	36.4	32.6	28.8	27.1
102.5°	228.1	227.6	223.6	219.6	215.6	211.6	170.9	130.3	89.6	48.9	28.6
105°	305.8	307.0	308.1	309.2	310.4	311.5	313.5	315.5	317.4	319.4	316.5
107.5°	381.2	382.3	383.8	385.3	386.8	388.3	389.3	390.3	391.3	392.2	393.1
110°	433.9	434.9	436.2	437.6	438.9	440.2	440.7	441.1	441.6	442.0	442.6



TEST NUMBER: P332517

CATALOG NUMBER: SA4XXDIP-C350D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	487.2	488.1	488.7	489.3	489.9	490.5	490.5	490.4	490.3	490.2	490.6
115°	563.7	563.9	563.7	563.5	563.2	563.0	563.5	563.9	564.4	564.8	565.0
117.5°	635.5	636.1	636.6	637.1	637.6	638.1	638.0	637.9	637.8	637.7	637.7
120°	683.4	683.7	683.5	683.3	683.0	682.8	683.3	683.7	684.1	684.6	684.6
122.5°	726.7	727.1	727.4	727.7	728.0	728.3	728.6	728.9	729.1	729.4	729.3
125°	792.2	792.4	792.0	791.5	791.1	790.6	791.3	792.0	792.6	793.3	793.7
127.5°	850.2	850.8	851.9	852.9	853.9	854.9	854.8	854.7	854.5	854.4	854.2
130°	889.3	889.8	890.5	891.1	891.8	892.5	892.7	892.9	893.1	893.3	893.5
132.5°	926.0	926.6	927.5	928.3	929.1	930.0	930.2	930.4	930.7	930.9	930.9
135°	977.4	977.7	978.6	979.5	980.4	981.3	981.7	982.2	982.6	983.1	983.5
137.5°	1026.4	1026.9	1027.9	1028.9	1029.8	1030.8	1031.3	1031.8	1032.3	1032.8	1032.9
140°	1058.9	1059.4	1059.8	1060.3	1060.7	1061.2	1061.8	1062.5	1063.2	1063.8	1064.3
142.5°	1088.3	1088.8	1089.1	1089.4	1089.6	1089.9	1090.4	1090.9	1091.4	1091.9	1092.1
145°	1130.7	1131.0	1131.0	1131.0	1131.0	1131.0	1131.3	1131.5	1131.7	1131.9	1132.3
147.5°	1167.2	1167.7	1167.4	1167.2	1167.0	1166.8	1167.0	1167.1	1167.3	1167.5	1167.7
150°	1190.5	1190.8	1190.6	1190.4	1190.2	1189.9	1189.9	1189.9	1189.9	1189.9	1190.0
152.5°	1210.5	1210.7	1210.3	1209.9	1209.5	1209.1	1209.5	1209.8	1210.2	1210.5	1210.6
155°	1237.7	1237.5	1236.9	1236.2	1235.5	1234.9	1235.7	1236.6	1237.5	1238.4	1238.5
157.5°	1260.9	1260.4	1259.7	1258.9	1258.2	1257.4	1258.6	1259.7	1260.9	1262.0	1262.0
160°	1273.1	1272.7	1272.5	1272.2	1272.0	1271.8	1273.1	1274.5	1275.8	1277.1	1277.1
162.5°	1285.2	1284.7	1284.4	1284.2	1284.0	1283.8	1285.1	1286.4	1287.8	1289.1	1289.0
165°	1300.3	1299.7	1299.7	1299.7	1299.7	1299.7	1301.5	1303.3	1305.1	1306.8	1306.7
167.5°	1312.9	1312.3	1312.1	1312.0	1311.9	1311.7	1313.7	1315.6	1317.6	1319.5	1319.4
170°	1319.4	1318.8	1319.0	1319.3	1319.5	1319.7	1321.5	1323.3	1325.0	1326.8	1326.6
172.5°	1324.2	1323.6	1323.8	1324.1	1324.3	1324.5	1326.3	1328.1	1329.8	1331.6	1331.3
175°	1329.4	1328.8	1329.0	1329.3	1329.5	1329.7	1331.7	1333.7	1335.7	1337.7	1337.3
177.5°	1332.1	1331.7	1332.0	1332.4	1332.7	1333.1	1334.5	1335.9	1337.3	1338.8	1338.4
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



TEST NUMBER: P332517

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	544.4	544.1	542.7	542.5	542.7	544.1	544.4	544.8	545.4	547.3	545.0
5°	502.9	501.7	501.0	503.6	501.0	501.7	502.9	504.3	506.7	506.9	509.3
7.5°	471.6	470.7	468.6	467.9	468.6	470.7	471.6	472.5	474.8	476.9	480.4
10°	451.6	450.6	448.7	448.2	448.7	450.6	451.6	453.9	456.3	458.9	461.3
12.5°	432.2	430.4	430.0	430.5	430.0	430.4	432.2	435.4	441.5	441.5	442.0
15°	406.6	405.6	403.0	403.8	403.0	405.6	406.6	409.7	412.5	416.1	419.6
17.5°	381.3	380.2	377.0	379.8	377.0	380.2	381.3	383.0	386.6	391.6	397.0
20°	365.4	363.5	361.9	361.6	361.9	363.5	365.4	367.1	371.1	375.4	379.4
22.5°	350.3	348.6	348.4	346.9	348.4	348.6	350.3	352.9	356.9	359.3	363.1
25°	331.3	329.7	329.2	328.0	329.2	329.7	331.3	333.2	335.8	337.7	342.0
27.5°	316.8	316.0	315.1	315.5	315.1	316.0	316.8	317.0	318.2	320.7	323.2
30°	307.9	307.7	307.2	307.2	307.2	307.7	307.9	307.2	308.4	309.6	311.5
32.5°	300.5	300.5	300.8	300.8	300.8	300.5	300.5	299.4	299.9	300.3	301.2
35°	290.2	290.9	291.3	290.6	291.3	290.9	290.2	289.2	288.5	286.8	287.3
37.5°	280.8	281.5	282.2	283.0	282.2	281.5	280.8	278.8	277.1	275.7	274.0
40°	273.6	275.2	275.7	276.9	275.7	275.2	273.6	271.5	269.6	267.9	266.0
42.5°	266.8	268.6	269.8	270.1	269.8	268.6	266.8	264.6	261.8	259.8	257.1
45°	256.3	258.2	259.9	259.9	259.9	258.2	256.3	252.8	249.7	246.6	244.0
47.5°	245.5	248.2	249.9	250.3	249.9	248.2	245.5	241.8	237.5	233.7	230.0
50°	238.1	241.4	243.1	244.2	243.1	241.4	238.1	234.1	229.6	224.8	220.3
52.5°	230.9	234.2	236.4	237.0	236.4	234.2	230.9	225.9	220.5	215.4	211.4
55°	218.4	223.2	225.8	226.7	225.8	223.2	218.4	213.0	207.8	201.4	195.7
57.5°	206.7	211.1	214.1	214.8	214.1	211.1	206.7	200.3	193.6	186.8	180.7
60°	197.6	202.4	206.1	206.8	206.1	202.4	197.6	191.2	184.1	177.5	169.9
62.5°	188.3	193.3	196.7	198.5	196.7	193.3	188.3	181.6	173.9	166.5	158.9
65°	172.3	177.3	180.6	181.3	180.6	177.3	172.3	165.7	157.6	149.8	143.4
67.5°	154.8	159.8	161.9	163.3	161.9	159.8	154.8	148.5	140.6	132.5	125.2
70°	142.5	146.5	148.9	150.0	148.9	146.5	142.5	135.8	129.2	120.9	113.1
72.5°	128.5	132.7	135.4	135.7	135.4	132.7	128.5	122.8	115.8	108.1	101.2
75°	107.0	110.8	112.2	112.2	112.2	110.8	107.0	101.5	95.9	89.7	82.8
77.5°	84.7	86.6	88.4	88.8	88.4	86.6	84.7	80.8	76.1	69.9	64.8
80°	70.3	71.5	72.9	72.9	72.9	71.5	70.3	66.7	62.2	57.0	53.0
82.5°	55.5	56.5	57.9	57.7	57.9	56.5	55.5	52.7	49.0	45.5	41.8
85°	33.6	35.7	35.5	35.0	35.5	35.7	33.6	34.1	30.5	28.2	24.9
87.5°	20.9	21.1	21.8	22.3	21.8	21.1	20.9	20.2	18.3	17.1	16.1
90°	28.6	29.1	29.5	29.9	29.5	29.1	28.6	28.2	27.3	26.0	24.6
92.5°	27.3	27.4	27.5	27.6	27.5	27.4	27.3	27.2	26.5	25.2	23.8
95°	28.3	28.5	28.7	28.9	28.7	28.5	28.3	28.1	27.3	26.0	24.6
97.5°	27.3	27.5	27.7	28.0	27.7	27.5	27.3	27.1	26.9	26.8	26.6
100°	27.3	27.5	27.7	28.0	27.7	27.5	27.3	27.1	28.8	32.6	36.4
102.5°	28.6	28.7	28.7	28.8	28.7	28.7	28.6	28.6	48.9	89.6	130.3
105°	308.5	300.5	292.5	284.5	292.5	300.5	308.5	316.5	319.4	317.4	315.5
107.5°	394.0	394.8	395.7	396.5	395.7	394.8	394.0	393.1	392.2	391.3	390.3
110°	443.2	443.9	444.6	445.2	444.6	443.9	443.2	442.6	442.0	441.6	441.1



TEST NUMBER: P332517

CATALOG NUMBER: SA4XXDIP-C350D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	491.4	492.3	493.1	493.9	493.1	492.3	491.4	490.6	490.2	490.3	490.4
115°	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	564.8	564.4	563.9
117.5°	637.6	637.5	637.4	637.3	637.4	637.5	637.6	637.7	637.7	637.8	637.9
120°	684.1	683.7	683.3	682.8	683.3	683.7	684.1	684.6	684.6	684.1	683.7
122.5°	728.9	728.4	728.0	727.5	728.0	728.4	728.9	729.3	729.4	729.1	728.9
125°	794.0	794.2	794.4	794.6	794.4	794.2	794.0	793.7	793.3	792.6	792.0
127.5°	854.1	853.9	853.7	853.5	853.7	853.9	854.1	854.2	854.4	854.5	854.7
130°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.3	893.1	892.9
132.5°	930.7	930.5	930.4	930.2	930.4	930.5	930.7	930.9	930.9	930.7	930.4
135°	984.0	984.4	984.8	985.3	984.8	984.4	984.0	983.5	983.1	982.6	982.2
137.5°	1032.8	1032.7	1032.5	1032.4	1032.5	1032.7	1032.8	1032.9	1032.8	1032.3	1031.8
140°	1064.5	1064.7	1064.9	1065.2	1064.9	1064.7	1064.5	1064.3	1063.8	1063.2	1062.5
142.5°	1092.2	1092.2	1092.3	1092.3	1092.3	1092.2	1092.2	1092.1	1091.9	1091.4	1090.9
145°	1132.7	1133.1	1133.6	1134.0	1133.6	1133.1	1132.7	1132.3	1131.9	1131.7	1131.5
147.5°	1167.9	1168.1	1168.4	1168.6	1168.4	1168.1	1167.9	1167.7	1167.5	1167.3	1167.1
150°	1190.3	1190.5	1190.7	1190.9	1190.7	1190.5	1190.3	1190.0	1189.9	1189.9	1189.9
152.5°	1210.5	1210.4	1210.2	1210.1	1210.2	1210.4	1210.5	1210.6	1210.5	1210.2	1209.8
155°	1237.9	1237.2	1236.5	1235.9	1236.5	1237.2	1237.9	1238.5	1238.4	1237.5	1236.6
157.5°	1260.9	1259.7	1258.6	1257.4	1258.6	1259.7	1260.9	1262.0	1262.0	1260.9	1259.7
160°	1275.8	1274.5	1273.1	1271.8	1273.1	1274.5	1275.8	1277.1	1277.1	1275.8	1274.5
162.5°	1287.5	1286.0	1284.5	1283.0	1284.5	1286.0	1287.5	1289.0	1289.1	1287.8	1286.4
165°	1304.7	1302.7	1300.7	1298.7	1300.7	1302.7	1304.7	1306.7	1306.8	1305.1	1303.3
167.5°	1317.2	1315.0	1312.7	1310.5	1312.7	1315.0	1317.2	1319.4	1319.5	1317.6	1315.6
170°	1324.4	1322.2	1319.9	1317.7	1319.9	1322.2	1324.4	1326.6	1326.8	1325.0	1323.3
172.5°	1328.9	1326.5	1324.1	1321.7	1324.1	1326.5	1328.9	1331.3	1331.6	1329.8	1328.1
175°	1334.7	1332.0	1329.4	1326.7	1329.4	1332.0	1334.7	1337.3	1337.7	1335.7	1333.7
177.5°	1336.3	1334.2	1332.0	1329.9	1332.0	1334.2	1336.3	1338.4	1338.8	1337.3	1335.9
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



TEST NUMBER: P332517

CATALOG NUMBER: SA4XXDIP-C350D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	546.1	546.9	549.9	552.8	556.2	558.6	560.3	562.2	566.2	569.4	572.5
5°	511.7	512.9	519.0	523.3	530.6	537.0	542.0	547.4	553.8	562.6	570.6
7.5°	481.3	485.7	492.5	499.4	506.8	515.2	522.5	530.7	541.7	553.8	566.2
10°	464.1	469.1	476.2	484.2	491.3	501.0	510.0	519.7	532.3	546.9	561.6
12.5°	446.9	455.1	460.5	470.0	477.7	485.7	495.3	508.0	522.6	538.0	555.7
15°	425.3	429.8	440.2	445.4	456.3	468.6	478.1	490.8	505.0	525.4	545.3
17.5°	400.4	406.3	414.6	424.5	437.0	446.6	458.4	471.6	489.5	509.7	534.6
20°	384.1	389.1	399.3	410.1	423.4	433.6	446.1	458.9	477.4	498.9	524.9
22.5°	369.5	374.3	385.1	395.2	408.1	420.5	433.6	448.5	466.2	488.9	515.5
25°	347.0	353.3	362.8	373.2	385.5	399.7	413.9	427.2	446.1	470.0	498.4
27.5°	326.9	332.0	338.9	350.7	364.7	378.4	392.5	409.2	427.4	452.7	482.1
30°	314.1	318.8	325.7	336.5	349.6	364.2	378.9	395.0	413.9	439.0	469.1
32.5°	303.8	307.4	313.5	323.3	335.2	350.6	365.1	381.7	401.6	426.3	455.6
35°	288.7	291.8	294.2	303.4	314.1	328.3	342.9	360.7	379.9	403.3	432.6
37.5°	273.9	275.0	278.4	284.5	294.8	307.9	321.5	339.0	358.6	382.4	408.9
40°	264.8	265.3	267.4	273.1	282.1	294.4	307.7	324.9	343.6	366.1	392.4
42.5°	255.9	255.6	257.6	261.6	270.0	281.2	294.2	310.0	328.7	349.5	374.2
45°	241.9	241.9	241.4	244.7	251.6	262.5	273.4	288.5	304.1	324.5	345.3
47.5°	227.2	225.9	226.3	228.0	233.8	242.7	253.7	266.1	279.9	297.1	315.4
50°	217.7	215.8	215.1	217.0	222.2	230.0	240.5	251.3	264.4	279.5	295.1
52.5°	207.3	205.4	204.1	205.5	210.3	217.5	227.0	236.6	248.3	260.6	274.1
55°	191.2	189.1	188.4	188.9	192.4	198.1	206.1	214.9	223.7	233.8	243.3
57.5°	175.4	171.9	171.2	171.0	173.4	178.6	185.4	192.9	199.3	205.5	215.6
60°	165.0	160.7	159.3	159.0	160.9	165.2	171.3	178.9	183.4	187.7	196.4
62.5°	153.8	149.7	146.6	146.9	148.6	152.7	158.1	163.6	166.6	171.2	177.1
65°	136.6	131.4	129.0	128.3	129.2	132.5	136.8	140.3	143.7	145.6	151.2
67.5°	119.3	115.0	111.5	110.6	110.2	112.5	116.0	118.1	120.5	122.1	125.5
70°	107.2	103.4	99.2	97.7	97.5	99.4	102.7	103.0	106.3	107.0	110.5
72.5°	95.3	90.5	87.6	86.2	85.2	86.9	89.1	89.7	91.5	92.8	94.6
75°	76.7	73.1	70.3	68.2	67.5	68.4	68.4	69.6	70.8	71.5	73.6
77.5°	60.4	56.3	52.9	51.7	50.8	50.2	50.7	51.5	50.9	52.1	52.6
80°	49.0	44.7	42.1	41.7	40.2	39.1	38.8	39.5	38.6	39.1	40.5
82.5°	37.8	35.1	32.3	31.8	30.0	29.4	29.2	28.7	28.7	28.6	28.9
85°	22.5	20.8	18.9	17.8	17.0	15.9	15.9	15.4	14.9	14.4	14.7
87.5°	13.7	13.1	11.8	10.9	10.1	9.0	8.6	7.6	6.9	6.2	5.5
90°	23.3	22.0	20.2	18.4	16.6	14.9	12.8	10.3	7.9	5.4	3.0
92.5°	22.5	21.2	19.4	17.6	15.8	14.1	13.1	13.0	12.8	12.7	12.6
95°	23.3	22.0	21.7	21.5	21.3	21.1	24.7	32.3	39.8	47.4	54.9
97.5°	26.5	26.4	51.1	75.9	100.6	125.4	135.4	130.7	126.0	121.3	116.6
100°	40.2	43.9	74.5	105.2	135.8	166.4	179.7	175.7	171.7	167.7	163.7
102.5°	170.9	211.6	215.6	219.6	223.6	227.6	228.1	225.2	222.3	219.4	216.4
105°	313.5	311.5	310.4	309.2	308.1	307.0	305.8	304.5	303.1	301.8	300.5
107.5°	389.3	388.3	386.8	385.3	383.8	382.3	381.2	380.5	379.9	379.2	378.5
110°	440.7	440.2	438.9	437.6	436.2	434.9	433.9	433.2	432.6	431.9	431.3



TEST NUMBER: P332517

CATALOG NUMBER: SA4XXDIP-C350D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	490.5	490.5	489.9	489.3	488.7	488.1	487.2	486.0	484.8	483.6	482.4
115°	563.5	563.0	563.2	563.5	563.7	563.9	563.7	563.0	562.4	561.7	561.0
117.5°	638.0	638.1	637.6	637.1	636.6	636.1	635.5	634.6	633.7	632.8	631.9
120°	683.3	682.8	683.0	683.3	683.5	683.7	683.4	682.5	681.6	680.7	679.8
122.5°	728.6	728.3	728.0	727.7	727.4	727.1	726.7	726.1	725.6	725.1	724.5
125°	791.3	790.6	791.1	791.5	792.0	792.4	792.2	791.3	790.4	789.5	788.6
127.5°	854.8	854.9	853.9	852.9	851.9	850.8	850.2	850.0	849.8	849.5	849.3
130°	892.7	892.5	891.8	891.1	890.5	889.8	889.3	889.1	888.9	888.7	888.5
132.5°	930.2	930.0	929.1	928.3	927.5	926.6	926.0	925.6	925.2	924.8	924.4
135°	981.7	981.3	980.4	979.5	978.6	977.7	977.4	977.6	977.9	978.1	978.3
137.5°	1031.3	1030.8	1029.8	1028.9	1027.9	1026.9	1026.4	1026.3	1026.2	1026.1	1026.0
140°	1061.8	1061.2	1060.7	1060.3	1059.8	1059.4	1058.9	1058.5	1058.1	1057.6	1057.2
142.5°	1090.4	1089.9	1089.6	1089.4	1089.1	1088.8	1088.3	1087.5	1086.7	1085.9	1085.1
145°	1131.3	1131.0	1131.0	1131.0	1131.0	1131.0	1130.7	1130.0	1129.4	1128.7	1128.0
147.5°	1167.0	1166.8	1167.0	1167.2	1167.4	1167.7	1167.2	1165.9	1164.7	1163.4	1162.2
150°	1189.9	1189.9	1190.2	1190.4	1190.6	1190.8	1190.5	1189.6	1188.7	1187.8	1186.9
152.5°	1209.5	1209.1	1209.5	1209.9	1210.3	1210.7	1210.5	1209.8	1209.1	1208.4	1207.7
155°	1235.7	1234.9	1235.5	1236.2	1236.9	1237.5	1237.7	1237.5	1237.3	1237.1	1236.9
157.5°	1258.6	1257.4	1258.2	1258.9	1259.7	1260.4	1260.9	1261.0	1261.1	1261.3	1261.4
160°	1273.1	1271.8	1272.0	1272.2	1272.5	1272.7	1273.1	1273.8	1274.5	1275.1	1275.8
162.5°	1285.1	1283.8	1284.0	1284.2	1284.4	1284.7	1285.2	1286.0	1286.9	1287.7	1288.6
165°	1301.5	1299.7	1299.7	1299.7	1299.7	1299.7	1300.3	1301.4	1302.5	1303.6	1304.7
167.5°	1313.7	1311.7	1311.9	1312.0	1312.1	1312.3	1312.9	1314.1	1315.2	1316.4	1317.5
170°	1321.5	1319.7	1319.5	1319.3	1319.0	1318.8	1319.4	1320.7	1322.0	1323.4	1324.7
172.5°	1326.3	1324.5	1324.3	1324.1	1323.8	1323.6	1324.2	1325.5	1326.8	1328.2	1329.5
175°	1331.7	1329.7	1329.5	1329.3	1329.0	1328.8	1329.4	1330.7	1332.0	1333.4	1334.7
177.5°	1334.5	1333.1	1332.7	1332.4	1332.0	1331.7	1332.1	1333.4	1334.6	1335.8	1337.1
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



TEST NUMBER: P332517

CATALOG NUMBER: SA4XXDIP-C350D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	575.1	577.0	579.5	583.6	585.1	587.0	589.7	589.5	590.2	593.1	599.1
5°	577.2	584.6	591.7	600.2	609.2	615.1	623.1	628.1	633.1	639.5	650.4
7.5°	578.1	589.7	602.7	617.7	631.0	646.3	658.3	669.6	679.8	693.2	706.2
10°	576.8	592.4	609.2	628.1	648.2	665.3	680.7	698.2	713.1	729.4	744.1
12.5°	574.3	593.1	615.6	636.8	660.3	685.5	704.7	722.4	742.2	761.0	783.7
15°	568.7	594.5	620.8	648.7	680.2	709.3	737.0	759.9	781.2	809.4	839.0
17.5°	561.6	589.4	622.6	656.4	689.3	722.5	756.8	791.3	818.2	853.2	876.3
20°	555.0	587.2	621.3	661.5	694.4	735.8	769.9	803.2	840.2	875.0	902.7
22.5°	545.7	580.9	617.1	657.1	700.4	741.9	781.2	817.4	854.4	892.2	925.7
25°	533.9	565.9	608.7	654.1	697.2	742.2	787.4	832.8	872.6	912.6	943.8
27.5°	513.9	554.2	594.1	641.0	688.8	739.7	788.1	835.6	877.3	910.2	929.5
30°	503.6	538.7	582.0	629.1	680.9	735.6	786.0	832.6	871.4	897.7	905.5
32.5°	488.5	524.6	567.0	615.8	670.7	726.9	779.3	823.3	855.7	869.5	860.1
35°	466.0	498.7	541.5	591.4	648.5	708.3	760.2	797.3	813.9	800.9	768.5
37.5°	439.0	471.4	514.4	563.5	622.5	683.4	730.2	757.0	751.5	719.1	670.8
40°	420.1	450.4	491.3	544.3	601.8	662.9	704.1	718.5	703.4	657.0	605.6
42.5°	399.1	428.6	469.7	520.9	581.8	638.1	674.0	675.2	649.8	594.3	542.8
45°	367.1	395.2	434.0	487.3	543.6	596.6	620.3	608.7	561.8	508.4	456.5
47.5°	335.5	359.9	398.2	448.7	502.2	546.8	558.6	537.7	487.8	435.8	387.8
50°	312.4	337.0	373.0	421.3	472.9	511.4	517.1	489.4	440.4	388.1	350.5
52.5°	290.2	314.7	349.3	394.0	441.2	476.0	476.2	444.2	395.4	348.8	313.8
55°	257.7	279.7	311.0	351.0	393.1	420.3	413.7	380.6	338.2	297.7	267.2
57.5°	226.4	245.6	274.3	307.7	344.8	367.3	356.3	324.4	286.6	252.2	229.1
60°	206.1	224.4	249.0	280.5	311.7	329.2	318.8	289.9	255.1	227.4	207.3
62.5°	186.4	201.8	225.5	252.8	281.8	294.7	285.5	257.0	226.9	201.9	185.5
65°	158.6	171.1	190.0	213.5	234.5	245.7	237.9	211.3	188.4	170.4	157.4
67.5°	132.5	142.3	156.7	175.5	193.4	199.4	192.3	173.8	154.4	140.0	130.8
70°	114.5	123.8	135.8	150.3	165.9	172.3	165.2	150.5	134.7	121.4	112.4
72.5°	98.8	106.0	116.2	128.5	140.7	147.1	142.3	128.2	114.8	104.9	97.3
75°	75.3	81.4	88.5	97.3	106.7	111.0	106.7	97.0	87.8	80.5	75.0
77.5°	54.7	58.0	63.5	70.1	76.0	79.2	75.5	69.0	63.3	58.3	55.6
80°	41.7	44.0	47.8	53.0	57.0	60.1	57.7	52.3	47.8	44.5	43.3
82.5°	30.3	31.9	34.4	38.2	40.9	42.5	41.5	37.5	35.7	32.8	31.6
85°	14.9	15.9	17.5	18.7	21.1	21.3	21.5	19.9	18.2	17.5	16.6
87.5°	6.2	6.9	7.9	9.0	10.2	10.7	10.9	11.2	10.8	10.9	10.4
90°	5.4	7.9	10.3	12.8	14.9	16.6	18.4	20.2	22.0	23.3	24.6
92.5°	12.7	12.8	13.0	13.1	14.1	15.8	17.6	19.4	21.2	22.5	23.8
95°	47.4	39.8	32.3	24.7	21.1	21.3	21.5	21.7	22.0	23.3	24.6
97.5°	121.3	126.0	130.7	135.4	125.4	100.6	75.9	51.1	26.4	26.5	26.6
100°	167.7	171.7	175.7	179.7	166.4	135.8	105.2	74.5	43.9	40.2	36.4
102.5°	219.4	222.3	225.2	228.1	227.6	223.6	219.6	215.6	211.6	170.9	130.3
105°	301.8	303.1	304.5	305.8	307.0	308.1	309.2	310.4	311.5	313.5	315.5
107.5°	379.2	379.9	380.5	381.2	382.3	383.8	385.3	386.8	388.3	389.3	390.3
110°	431.9	432.6	433.2	433.9	434.9	436.2	437.6	438.9	440.2	440.7	441.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	483.6	484.8	486.0	487.2	488.1	488.7	489.3	489.9	490.5	490.5	490.4
115°	561.7	562.4	563.0	563.7	563.9	563.7	563.5	563.2	563.0	563.5	563.9
117.5°	632.8	633.7	634.6	635.5	636.1	636.6	637.1	637.6	638.1	638.0	637.9
120°	680.7	681.6	682.5	683.4	683.7	683.5	683.3	683.0	682.8	683.3	683.7
122.5°	725.1	725.6	726.1	726.7	727.1	727.4	727.7	728.0	728.3	728.6	728.9
125°	789.5	790.4	791.3	792.2	792.4	792.0	791.5	791.1	790.6	791.3	792.0
127.5°	849.5	849.8	850.0	850.2	850.8	851.9	852.9	853.9	854.9	854.8	854.7
130°	888.7	888.9	889.1	889.3	889.8	890.5	891.1	891.8	892.5	892.7	892.9
132.5°	924.8	925.2	925.6	926.0	926.6	927.5	928.3	929.1	930.0	930.2	930.4
135°	978.1	977.9	977.6	977.4	977.7	978.6	979.5	980.4	981.3	981.7	982.2
137.5°	1026.1	1026.2	1026.3	1026.4	1026.9	1027.9	1028.9	1029.8	1030.8	1031.3	1031.8
140°	1057.6	1058.1	1058.5	1058.9	1059.4	1059.8	1060.3	1060.7	1061.2	1061.8	1062.5
142.5°	1085.9	1086.7	1087.5	1088.3	1088.8	1089.1	1089.4	1089.6	1089.9	1090.4	1090.9
145°	1128.7	1129.4	1130.0	1130.7	1131.0	1131.0	1131.0	1131.0	1131.0	1131.3	1131.5
147.5°	1163.4	1164.7	1165.9	1167.2	1167.7	1167.4	1167.2	1167.0	1166.8	1167.0	1167.1
150°	1187.8	1188.7	1189.6	1190.5	1190.8	1190.6	1190.4	1190.2	1189.9	1189.9	1189.9
152.5°	1208.4	1209.1	1209.8	1210.5	1210.7	1210.3	1209.9	1209.5	1209.1	1209.5	1209.8
155°	1237.1	1237.3	1237.5	1237.7	1237.5	1236.9	1236.2	1235.5	1234.9	1235.7	1236.6
157.5°	1261.3	1261.1	1261.0	1260.9	1260.4	1259.7	1258.9	1258.2	1257.4	1258.6	1259.7
160°	1275.1	1274.5	1273.8	1273.1	1272.7	1272.5	1272.2	1272.0	1271.8	1273.1	1274.5
162.5°	1287.7	1286.9	1286.0	1285.2	1284.7	1284.4	1284.2	1284.0	1283.8	1285.1	1286.4
165°	1303.6	1302.5	1301.4	1300.3	1299.7	1299.7	1299.7	1299.7	1299.7	1301.5	1303.3
167.5°	1316.4	1315.2	1314.1	1312.9	1312.3	1312.1	1312.0	1311.9	1311.7	1313.7	1315.6
170°	1323.4	1322.0	1320.7	1319.4	1318.8	1319.0	1319.3	1319.5	1319.7	1321.5	1323.3
172.5°	1328.2	1326.8	1325.5	1324.2	1323.6	1323.8	1324.1	1324.3	1324.5	1326.3	1328.1
175°	1333.4	1332.0	1330.7	1329.4	1328.8	1329.0	1329.3	1329.5	1329.7	1331.7	1333.7
177.5°	1335.8	1334.6	1333.4	1332.1	1331.7	1332.0	1332.4	1332.7	1333.1	1334.5	1335.9
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	602.2	602.6	604.3	605.6	606.0	607.9	608.0
5°	655.1	659.1	666.9	667.6	668.8	675.0	670.2
7.5°	717.1	727.3	734.1	740.2	742.3	745.0	744.5
10°	756.9	772.0	779.6	791.7	792.1	795.2	793.3
12.5°	796.8	814.4	828.2	830.5	840.6	842.2	844.8
15°	853.4	872.1	891.3	898.2	912.1	915.4	920.6
17.5°	906.6	925.7	939.2	956.9	962.7	970.3	965.1
20°	935.8	956.6	973.7	987.6	993.5	997.8	997.3
22.5°	953.4	974.4	988.2	998.8	1004.3	1006.1	1006.0
25°	964.4	976.5	980.8	984.8	978.6	976.5	977.4
27.5°	933.7	930.6	919.5	904.9	889.8	877.8	871.2
30°	891.5	873.1	856.3	826.9	811.8	802.8	794.7
32.5°	831.7	802.4	770.1	743.2	726.0	712.7	710.7
35°	729.2	685.2	645.6	612.7	595.7	581.3	577.9
37.5°	619.9	574.2	538.6	509.6	491.3	481.1	471.6
40°	547.4	508.1	473.1	448.5	434.5	427.2	421.3
42.5°	491.6	455.7	420.8	402.1	389.5	385.0	381.5
45°	414.4	381.0	356.9	342.7	335.4	327.8	324.2
47.5°	352.6	325.5	309.6	297.5	289.6	285.1	282.9
50°	317.6	295.4	281.2	271.9	264.8	261.3	259.4
52.5°	286.6	268.3	256.4	249.0	244.2	241.6	240.8
55°	246.8	232.9	225.3	218.9	215.4	213.0	212.1
57.5°	214.6	203.8	197.7	192.4	191.0	189.1	188.4
60°	193.4	185.1	179.9	176.3	175.1	172.8	173.2
62.5°	174.6	167.8	163.4	161.4	159.8	157.8	158.5
65°	147.7	142.7	140.3	138.5	136.6	135.4	136.3
67.5°	123.9	120.5	117.3	116.2	115.3	115.1	114.1
70°	108.4	105.6	102.7	102.0	102.0	101.1	100.8
72.5°	93.4	91.4	89.5	88.9	88.2	88.6	87.6
75°	72.2	70.5	69.8	69.1	68.9	68.9	68.2
77.5°	53.3	52.1	51.0	51.0	50.1	49.8	49.7
80°	40.5	40.0	39.1	39.1	38.6	38.8	38.3
82.5°	30.4	29.8	29.6	29.2	28.5	28.6	28.1
85°	16.3	15.6	15.4	14.7	14.2	14.7	14.2
87.5°	10.9	10.9	10.9	10.6	10.5	10.6	10.2
90°	26.0	27.3	28.2	28.6	29.1	29.5	29.9
92.5°	25.2	26.5	27.2	27.3	27.4	27.5	27.6
95°	26.0	27.3	28.1	28.3	28.5	28.7	28.9
97.5°	26.8	26.9	27.1	27.3	27.5	27.7	28.0
100°	32.6	28.8	27.1	27.3	27.5	27.7	28.0
102.5°	89.6	48.9	28.6	28.6	28.7	28.7	28.8
105°	317.4	319.4	316.5	308.5	300.5	292.5	284.5
107.5°	391.3	392.2	393.1	394.0	394.8	395.7	396.5
110°	441.6	442.0	442.6	443.2	443.9	444.6	445.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	490.3	490.2	490.6	491.4	492.3	493.1	493.9
115°	564.4	564.8	565.0	565.0	565.0	565.0	565.0
117.5°	637.8	637.7	637.7	637.6	637.5	637.4	637.3
120°	684.1	684.6	684.6	684.1	683.7	683.3	682.8
122.5°	729.1	729.4	729.3	728.9	728.4	728.0	727.5
125°	792.6	793.3	793.7	794.0	794.2	794.4	794.6
127.5°	854.5	854.4	854.2	854.1	853.9	853.7	853.5
130°	893.1	893.3	893.5	893.5	893.5	893.5	893.5
132.5°	930.7	930.9	930.9	930.7	930.5	930.4	930.2
135°	982.6	983.1	983.5	984.0	984.4	984.8	985.3
137.5°	1032.3	1032.8	1032.9	1032.8	1032.7	1032.5	1032.4
140°	1063.2	1063.8	1064.3	1064.5	1064.7	1064.9	1065.2
142.5°	1091.4	1091.9	1092.1	1092.2	1092.2	1092.3	1092.3
145°	1131.7	1131.9	1132.3	1132.7	1133.1	1133.6	1134.0
147.5°	1167.3	1167.5	1167.7	1167.9	1168.1	1168.4	1168.6
150°	1189.9	1189.9	1190.0	1190.3	1190.5	1190.7	1190.9
152.5°	1210.2	1210.5	1210.6	1210.5	1210.4	1210.2	1210.1
155°	1237.5	1238.4	1238.5	1237.9	1237.2	1236.5	1235.9
157.5°	1260.9	1262.0	1262.0	1260.9	1259.7	1258.6	1257.4
160°	1275.8	1277.1	1277.1	1275.8	1274.5	1273.1	1271.8
162.5°	1287.8	1289.1	1289.0	1287.5	1286.0	1284.5	1283.0
165°	1305.1	1306.8	1306.7	1304.7	1302.7	1300.7	1298.7
167.5°	1317.6	1319.5	1319.4	1317.2	1315.0	1312.7	1310.5
170°	1325.0	1326.8	1326.6	1324.4	1322.2	1319.9	1317.7
172.5°	1329.8	1331.6	1331.3	1328.9	1326.5	1324.1	1321.7
175°	1335.7	1337.7	1337.3	1334.7	1332.0	1329.4	1326.7
177.5°	1337.3	1338.8	1338.4	1336.3	1334.2	1332.0	1329.9
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7

(END OF REPORT)