

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: P331639-935

Luminaire Tested: **SA2XXRDIP-C290D1080U935-4F0-1E-UDD-A**

Issue Date: 10/7/2019

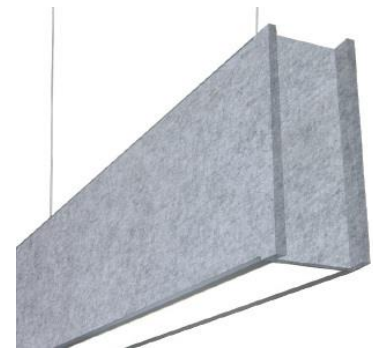
Test Information

Test Method: LM-79-08
Report Number: P331639-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C290D1080U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4682.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

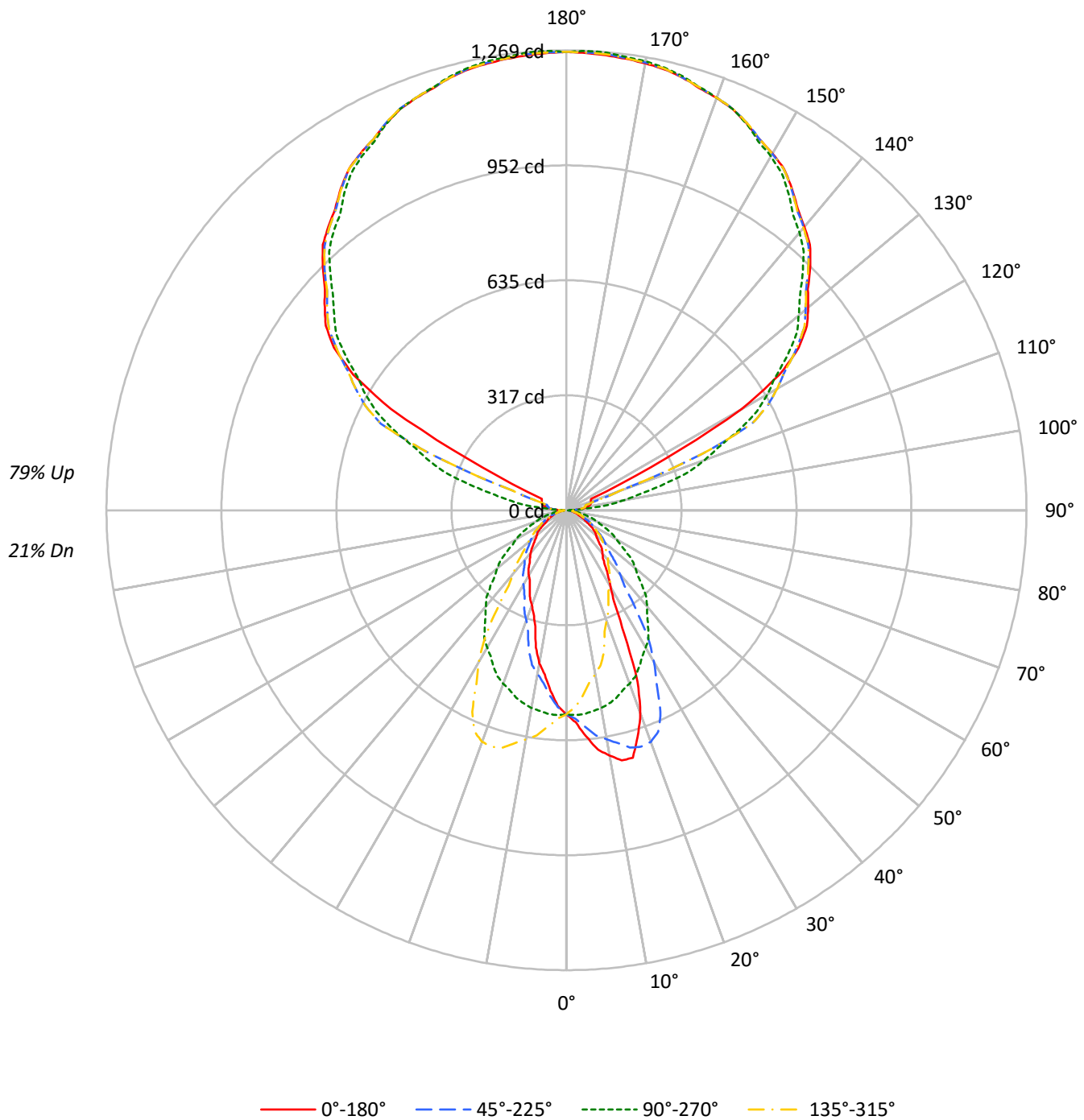
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29
1	92	88	84	81	81	78	75	72	59	57	55	42	41	40	26	26	25
2	84	77	71	66	74	68	64	60	52	49	46	37	35	34	24	23	22
3	76	68	61	56	67	60	55	50	46	42	39	33	31	29	21	20	19
4	70	60	53	47	62	54	47	43	41	37	34	30	27	25	19	18	17
5	64	53	46	40	57	48	41	37	37	33	29	27	24	22	17	16	15
6	59	48	40	35	52	43	36	32	33	29	25	24	21	19	16	14	13
7	55	43	36	31	48	39	32	28	30	26	22	22	19	17	15	13	12
8	51	39	32	27	45	35	29	25	27	23	20	20	17	15	13	12	11
9	47	36	29	24	42	32	26	22	25	21	18	19	16	14	13	11	10
10	44	33	26	21	39	29	24	20	23	19	16	17	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9087	9087	9087	9087
5°	10149	9144	8109	9144
10°	11262	9081	7029	9081
15°	11814	8948	5538	8948
20°	10244	8751	4792	8751
25°	6716	8480	4277	8480
30°	4521	8153	3872	8153
35°	3662	7740	3493	7740
40°	3256	7290	3231	7290
45°	2948	6766	2884	6766
50°	2683	6244	2673	6244
55°	2519	5664	2488	5664
60°	2109	5134	2086	5134
65°	1780	4661	2017	4661
70°	1643	4164	1902	4164
75°	1535	3624	1759	3624
80°	1413	2985	1562	2985
85°	1315	2353	1371	2353

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.1
10°-20°	148.7	3.2
20°-30°	191.6	4.1
30°-40°	182.1	3.9
40°-50°	156.0	3.3
50°-60°	118.8	2.5
60°-70°	75.1	1.6
70°-80°	37.5	0.8
80°-90°	12.9	0.3
90°-100°	42.2	0.9
100°-110°	154.7	3.3
110°-120°	413.6	8.8
120°-130°	682.8	14.6
130°-140°	726.1	15.5
140°-150°	674.9	14.4
150°-160°	542.6	11.6
160°-170°	349.7	7.5
170°-180°	120.4	2.6
0°-30°	393.6	8.4
0°-40°	575.7	12.3
0°-60°	850.4	18.2
0°-90°	975.9	20.8
90°-120°	610.5	13.0
90°-150°	2694.3	57.5
90°-180°	3707.0	79.2
0°-180°	4682.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	563	563	563	563	563	
5°	626	564	500	564	626	62
15°	707	535	331	535	707	191
25°	377	476	240	476	377	179
35°	186	393	177	393	186	119
45°	129	296	126	296	129	100
55°	90	201	88	201	90	79
65°	47	122	53	122	47	47
75°	25	58	28	58	25	26
85°	7	13	7	13	7	8
90°	25	1	25	1	25	11
95°	39	60	39	60	39	37
105°	70	278	70	278	70	72
115°	75	526	75	526	75	188
125°	783	744	783	744	783	677
135°	951	921	951	921	951	733
145°	1085	1068	1085	1068	1085	678
155°	1177	1176	1177	1176	1177	543
165°	1237	1239	1237	1239	1237	349
175°	1260	1268	1260	1268	1260	120
180°	1265	1265	1265	1265	1265	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	585.7	586.2	586.7	585.6	585.6	584.6	582.6	581.0	576.6	576.0	576.0
5°	626.2	625.9	626.6	624.1	620.6	619.7	616.0	611.1	606.1	600.5	599.3
7.5°	666.5	665.9	664.3	663.9	661.2	655.3	649.4	643.0	634.6	626.3	622.2
10°	686.9	693.4	689.4	682.6	683.9	674.8	669.9	661.4	654.4	642.0	639.4
12.5°	706.9	709.5	708.2	704.3	702.6	696.2	689.6	682.3	669.3	658.2	648.6
15°	706.8	710.5	711.5	710.3	711.3	710.9	707.4	701.4	690.0	677.9	667.3
17.5°	654.6	657.2	663.7	668.0	673.5	685.0	690.8	692.9	691.3	684.3	676.9
20°	596.2	591.9	609.8	619.0	626.8	646.4	663.2	669.7	680.0	679.8	677.9
22.5°	513.2	514.2	531.2	542.2	565.0	584.6	603.7	628.0	648.1	661.3	669.1
25°	377.0	384.5	401.5	416.4	441.8	478.2	511.3	549.6	585.7	614.3	641.5
27.5°	283.2	283.8	297.2	311.0	326.1	355.9	397.5	443.2	494.8	537.4	586.3
30°	242.5	241.3	247.0	255.5	268.4	291.4	322.7	367.6	419.1	483.3	540.4
32.5°	213.7	213.8	218.1	224.3	235.0	250.6	272.0	308.6	357.1	420.3	487.2
35°	185.8	185.6	188.7	193.2	197.7	207.7	222.4	241.5	275.0	333.8	402.3
37.5°	165.7	166.6	168.2	171.0	175.9	181.5	190.3	203.2	227.0	261.8	319.3
40°	154.5	154.9	157.0	159.4	162.3	166.6	173.8	184.3	201.6	229.4	271.5
42.5°	144.2	144.6	146.1	148.3	150.6	154.9	160.9	169.9	184.0	205.6	240.3
45°	129.1	129.1	130.4	131.4	134.0	137.8	142.8	150.2	160.0	176.0	199.1
47.5°	114.9	114.9	115.9	117.5	119.2	122.2	127.0	133.1	140.2	152.6	172.3
50°	106.8	107.0	107.5	108.9	109.9	112.6	116.4	121.7	129.1	138.7	155.1
52.5°	100.2	100.1	100.8	101.4	102.1	104.0	106.9	111.5	118.1	126.5	140.1
55°	89.5	88.8	90.0	90.9	91.5	92.3	93.8	96.8	102.5	109.5	119.7
57.5°	76.3	75.9	76.8	77.7	79.6	81.6	83.0	84.8	87.7	92.8	102.9
60°	65.3	65.3	67.1	67.7	69.8	72.6	75.3	76.9	79.8	83.1	90.6
62.5°	55.6	55.8	56.6	57.2	58.4	61.7	65.6	69.1	71.8	75.0	79.9
65°	46.6	46.9	46.9	47.4	48.1	48.9	50.5	53.2	58.1	62.6	66.3
67.5°	39.5	39.6	39.8	40.1	40.3	41.2	41.8	43.0	44.2	48.4	53.0
70°	34.8	35.4	35.2	35.6	35.8	36.2	36.9	37.5	39.3	40.3	43.0
72.5°	30.4	30.8	30.8	31.1	31.6	31.7	32.3	32.9	34.0	34.8	36.3
75°	24.6	24.5	24.6	25.1	25.2	25.4	25.4	26.2	26.8	27.6	28.6
77.5°	19.0	19.2	19.2	19.2	19.3	19.6	19.5	19.9	20.5	20.9	21.4
80°	15.2	15.4	15.2	15.4	15.7	15.8	15.7	15.8	16.4	16.8	16.8
82.5°	11.8	11.9	12.0	12.0	12.1	12.1	12.4	12.4	12.8	12.7	12.9
85°	7.1	6.9	6.9	6.9	7.1	7.2	7.1	7.1	7.2	7.2	7.2
87.5°	7.4	7.5	7.4	7.3	7.3	7.1	7.0	6.9	6.5	6.5	6.0
90°	24.7	24.3	23.9	23.5	23.1	22.4	21.4	20.3	19.3	18.3	16.7
92.5°	24.7	24.5	24.2	24.0	23.8	23.3	22.8	22.3	21.8	21.3	20.4
95°	39.3	39.5	39.8	40.0	40.2	39.8	38.7	37.7	36.7	35.7	34.3
97.5°	52.5	52.3	52.1	51.8	51.6	51.1	50.2	49.4	48.6	47.8	44.5
100°	61.3	61.0	60.5	60.1	59.7	58.7	57.1	55.4	53.8	52.2	48.7
102.5°	65.7	65.2	64.6	64.0	63.5	62.1	60.0	57.9	55.8	53.6	82.6
105°	69.6	68.7	67.9	67.2	66.3	64.7	62.5	60.3	58.0	55.8	111.3
107.5°	71.5	70.8	69.9	69.1	68.4	69.1	71.3	73.6	75.9	78.2	144.7
110°	72.3	71.5	70.7	69.8	69.1	78.8	99.2	119.5	139.8	160.1	219.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	73.0	72.4	71.7	71.1	70.4	107.2	181.4	255.6	329.8	404.0	418.5
115°	75.1	89.7	104.4	119.0	133.6	188.0	282.2	376.3	470.5	564.7	559.6
117.5°	306.4	354.6	402.7	450.8	498.9	534.4	557.2	580.0	602.7	625.5	622.0
120°	558.4	585.7	613.2	640.7	668.1	680.7	678.2	675.8	673.3	670.9	667.3
122.5°	696.7	702.1	707.4	712.7	718.0	720.0	718.5	717.0	715.6	714.1	710.2
125°	782.6	782.0	781.4	780.8	780.2	779.1	777.7	776.3	774.8	773.4	769.6
127.5°	836.7	836.6	836.5	836.4	836.3	835.2	833.1	831.0	829.0	826.9	824.0
130°	870.5	870.6	870.8	871.1	871.2	870.2	868.0	865.7	863.5	861.3	859.0
132.5°	903.4	903.6	903.8	904.0	904.2	903.4	901.5	899.5	897.6	895.7	893.5
135°	951.0	951.4	951.7	952.2	952.6	951.7	949.8	947.7	945.7	943.7	941.8
137.5°	994.4	995.1	995.7	996.4	997.1	996.4	994.5	992.5	990.5	988.5	986.4
140°	1021.5	1022.4	1023.5	1024.5	1025.5	1025.1	1023.3	1021.5	1019.6	1017.8	1015.5
142.5°	1047.8	1048.9	1049.8	1050.9	1051.9	1051.5	1049.9	1048.2	1046.5	1044.9	1042.3
145°	1084.6	1085.6	1086.7	1087.7	1088.6	1088.5	1087.0	1085.6	1084.2	1082.8	1079.3
147.5°	1117.0	1117.8	1118.7	1119.6	1120.4	1120.3	1119.3	1118.2	1117.1	1116.1	1112.7
150°	1136.8	1137.8	1138.8	1139.8	1140.8	1140.7	1139.5	1138.3	1137.1	1135.8	1132.6
152.5°	1153.7	1154.9	1156.3	1157.6	1159.0	1159.1	1157.9	1156.6	1155.4	1154.2	1151.1
155°	1177.1	1178.7	1180.3	1181.9	1183.5	1183.8	1182.6	1181.3	1180.1	1178.9	1176.5
157.5°	1198.4	1200.1	1201.6	1203.2	1204.8	1204.9	1203.5	1202.1	1200.8	1199.4	1197.7
160°	1210.9	1212.4	1213.8	1215.2	1216.6	1216.7	1215.5	1214.3	1213.1	1211.9	1210.7
162.5°	1221.2	1222.9	1224.7	1226.4	1228.1	1228.4	1226.9	1225.5	1224.2	1222.8	1221.8
165°	1236.6	1237.9	1239.4	1240.8	1242.3	1242.3	1240.8	1239.4	1237.9	1236.6	1236.0
167.5°	1246.2	1248.1	1249.9	1251.7	1253.5	1253.8	1252.3	1250.9	1249.5	1248.1	1247.5
170°	1252.1	1254.0	1255.8	1257.6	1259.4	1259.6	1258.2	1256.8	1255.3	1254.0	1253.5
172.5°	1256.5	1258.4	1260.2	1262.0	1263.9	1264.0	1262.6	1261.2	1259.7	1258.4	1257.9
175°	1260.3	1262.4	1264.4	1266.4	1268.5	1268.8	1267.4	1265.9	1264.6	1263.1	1262.7
177.5°	1262.7	1264.2	1265.7	1267.1	1268.6	1268.8	1267.6	1266.4	1265.3	1264.2	1264.0
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	576.4	575.1	573.9	571.2	569.7	566.6	566.2	566.0	562.0	558.0	556.9
5°	596.2	593.0	588.3	582.8	577.1	571.3	567.4	564.2	556.4	549.0	544.7
7.5°	616.0	609.3	601.2	590.9	582.2	572.6	565.3	558.9	547.8	537.1	529.9
10°	630.9	620.0	609.2	595.0	583.8	572.8	562.7	553.9	541.4	527.3	517.3
12.5°	640.2	628.1	613.3	599.3	584.9	570.9	557.3	546.0	531.3	516.8	505.0
15°	652.6	639.7	621.7	601.8	583.2	565.0	549.4	535.3	516.2	498.7	484.2
17.5°	662.9	645.1	625.8	602.7	581.2	558.1	538.0	520.0	498.6	477.6	460.5
20°	666.2	648.5	626.2	603.1	577.7	550.5	528.8	509.3	486.4	463.5	443.9
22.5°	664.1	650.4	625.6	598.0	572.0	543.5	519.0	496.3	470.9	447.5	424.9
25°	650.3	645.6	622.2	592.0	562.3	529.3	500.8	476.0	447.1	422.1	397.4
27.5°	618.1	628.3	613.7	581.6	548.5	513.2	481.2	453.0	422.9	394.8	370.2
30°	587.1	610.4	604.2	574.4	537.4	502.7	466.8	437.3	405.3	376.3	352.1
32.5°	544.8	583.2	589.3	564.4	526.2	487.9	450.4	421.0	387.5	357.1	333.4
35°	477.2	534.7	561.1	545.3	507.0	465.6	427.0	392.7	359.0	329.0	305.5
37.5°	396.7	475.0	519.0	520.1	484.9	442.0	399.8	365.8	331.4	301.9	276.5
40°	344.4	429.3	486.6	499.3	469.6	423.3	380.6	345.9	312.4	283.4	254.3
42.5°	297.5	382.0	452.5	474.6	451.0	404.9	362.1	326.0	293.3	265.9	236.1
45°	240.6	314.5	392.1	431.6	418.5	375.9	330.7	296.3	265.6	241.9	213.4
47.5°	202.9	255.0	330.2	383.6	383.4	344.5	300.0	267.1	238.6	216.4	193.3
50°	181.5	226.9	290.4	351.0	356.1	323.5	281.2	248.6	222.0	198.7	180.1
52.5°	162.2	199.7	256.8	315.0	329.4	301.1	260.1	230.0	204.1	182.7	166.9
55°	137.1	166.1	209.5	263.8	285.8	265.8	229.4	201.2	180.3	162.3	148.6
57.5°	116.0	137.7	172.5	216.3	241.8	229.3	199.2	176.3	158.4	142.2	131.4
60°	102.7	120.5	150.0	186.6	214.7	206.0	180.3	159.0	143.8	129.7	119.5
62.5°	90.1	105.5	130.8	160.5	186.2	182.6	161.7	143.8	130.4	117.6	109.0
65°	72.6	83.7	103.5	126.7	147.5	149.2	134.1	122.0	110.1	100.0	92.3
67.5°	57.8	65.1	79.0	98.6	114.1	119.7	110.5	101.2	91.7	83.9	77.2
70°	48.7	54.6	64.7	80.6	94.9	100.7	95.4	88.2	80.0	73.5	67.8
72.5°	39.4	45.2	52.7	64.3	76.5	82.9	81.0	75.9	69.2	63.8	58.5
75°	29.7	31.5	36.6	44.4	54.0	59.5	60.8	58.1	52.8	48.7	45.5
77.5°	22.0	23.1	25.5	29.5	35.8	40.7	42.7	42.4	38.7	36.4	33.4
80°	17.6	18.2	19.4	21.1	25.8	30.7	32.1	32.1	29.5	28.6	25.7
82.5°	13.3	13.8	14.6	15.5	17.7	22.0	23.5	23.8	22.2	20.9	18.6
85°	7.7	7.4	7.8	8.4	8.8	10.0	12.3	12.7	12.3	10.8	10.2
87.5°	5.7	5.5	5.2	4.6	4.3	4.0	4.4	4.7	4.6	4.5	4.6
90°	15.1	13.4	11.8	9.9	7.7	5.4	3.2	0.9	3.2	5.4	7.7
92.5°	19.6	18.8	18.0	17.7	17.9	18.1	18.3	18.5	18.3	18.1	17.9
95°	32.9	31.4	30.0	32.6	39.3	46.1	52.8	59.5	52.8	46.1	39.3
97.5°	41.2	37.9	34.6	42.4	61.3	80.2	99.2	118.0	99.2	80.2	61.3
100°	45.3	41.8	38.3	50.5	78.4	106.2	134.1	162.0	134.1	106.2	78.4
102.5°	111.5	140.4	169.4	186.8	192.6	198.5	204.4	210.3	204.4	198.5	192.6
105°	166.9	222.4	277.9	302.6	296.5	290.4	284.4	278.3	284.4	290.4	296.5
107.5°	211.4	277.9	344.6	375.4	370.4	365.5	360.6	355.7	360.6	365.5	370.4
110°	277.8	336.5	395.3	422.6	418.3	414.1	409.7	405.4	409.7	414.1	418.3

TEST NUMBER: P331639-935

CATALOG NUMBER: SA2XXRDIP-C290D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	433.1	447.5	462.1	467.4	463.6	459.9	456.2	452.4	456.2	459.9	463.6
115°	554.6	549.5	544.4	540.1	536.7	533.2	529.8	526.3	529.8	533.2	536.7
117.5°	618.5	615.0	611.5	607.9	604.0	600.1	596.2	592.4	596.2	600.1	604.0
120°	663.6	660.0	656.3	652.9	649.9	646.8	643.8	640.7	643.8	646.8	649.9
122.5°	706.1	702.1	698.2	694.6	691.4	688.1	684.9	681.7	684.9	688.1	691.4
125°	765.7	761.8	757.9	754.7	752.1	749.4	746.7	744.2	746.7	749.4	752.1
127.5°	821.0	818.2	815.3	812.4	809.5	806.6	803.7	800.7	803.7	806.6	809.5
130°	856.8	854.5	852.3	849.5	846.4	843.1	839.8	836.5	839.8	843.1	846.4
132.5°	891.2	889.0	886.7	884.2	881.5	878.7	876.0	873.1	876.0	878.7	881.5
135°	940.0	938.1	936.3	933.8	930.6	927.3	924.0	920.8	924.0	927.3	930.6
137.5°	984.4	982.3	980.2	978.0	975.8	973.4	971.2	968.9	971.2	973.4	975.8
140°	1013.3	1011.1	1008.8	1006.9	1005.3	1003.7	1002.0	1000.4	1002.0	1003.7	1005.3
142.5°	1039.7	1037.2	1034.7	1032.6	1031.1	1029.7	1028.2	1026.7	1028.2	1029.7	1031.1
145°	1075.8	1072.4	1068.9	1067.3	1067.6	1067.7	1067.9	1068.2	1067.9	1067.7	1067.6
147.5°	1109.2	1105.9	1102.4	1101.1	1101.9	1102.7	1103.5	1104.2	1103.5	1102.7	1101.9
150°	1129.4	1126.1	1122.8	1122.0	1123.3	1124.8	1126.2	1127.7	1126.2	1124.8	1123.3
152.5°	1148.0	1144.9	1141.8	1141.1	1142.6	1144.2	1145.8	1147.4	1145.8	1144.2	1142.6
155°	1174.0	1171.6	1169.2	1168.8	1170.6	1172.5	1174.3	1176.1	1174.3	1172.5	1170.6
157.5°	1195.9	1194.3	1192.6	1192.5	1194.0	1195.6	1197.1	1198.7	1197.1	1195.6	1194.0
160°	1209.4	1208.2	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9	1210.7	1209.4	1208.2
162.5°	1220.7	1219.6	1218.6	1218.7	1219.9	1221.1	1222.4	1223.6	1222.4	1221.1	1219.9
165°	1235.4	1234.7	1234.1	1234.4	1235.6	1236.8	1238.0	1239.3	1238.0	1236.8	1235.6
167.5°	1246.9	1246.4	1245.8	1246.1	1247.3	1248.5	1249.8	1251.0	1249.8	1248.5	1247.3
170°	1253.1	1252.8	1252.3	1252.8	1254.0	1255.2	1256.4	1257.6	1256.4	1255.2	1254.0
172.5°	1257.5	1257.1	1256.7	1257.1	1258.4	1259.6	1260.8	1262.0	1260.8	1259.6	1258.4
175°	1262.3	1261.9	1261.5	1262.0	1263.4	1264.8	1266.3	1267.7	1266.3	1264.8	1263.4
177.5°	1263.9	1263.7	1263.5	1264.0	1265.2	1266.3	1267.5	1268.6	1267.5	1266.3	1265.2
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9

TEST NUMBER: P331639-935

CATALOG NUMBER: SA2XXRDIP-C290D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	554.9	553.8	551.7	548.6	546.7	543.5	541.3	542.5	542.9	542.5	542.3
5°	540.0	535.9	530.2	524.7	519.6	514.2	511.0	509.7	507.0	505.4	504.5
7.5°	521.9	514.9	506.9	497.3	489.2	480.7	476.4	474.2	468.6	465.6	463.0
10°	508.5	497.3	489.3	476.8	469.2	458.1	450.4	450.6	443.0	438.7	435.6
12.5°	493.6	481.4	468.0	456.8	446.2	437.2	428.0	424.3	416.2	412.1	403.6
15°	469.0	454.7	440.7	425.4	414.7	400.7	387.4	371.2	358.1	346.7	343.6
17.5°	442.1	424.4	410.3	392.4	373.9	350.6	335.2	325.7	317.9	311.9	307.4
20°	423.6	405.6	390.5	363.6	338.7	322.9	311.6	304.3	296.1	289.6	286.1
22.5°	404.2	385.5	364.9	334.8	315.4	302.7	292.7	284.3	278.7	273.7	270.4
25°	376.7	356.1	322.3	301.6	285.9	272.6	265.6	260.5	254.7	247.8	244.7
27.5°	347.6	315.0	290.6	275.2	260.3	251.7	245.3	237.7	232.5	229.4	226.1
30°	325.8	293.2	274.2	257.4	246.8	237.2	229.8	225.5	220.4	215.2	213.0
32.5°	301.6	275.5	257.3	243.3	232.6	224.4	218.5	211.5	207.9	204.7	200.2
35°	271.5	251.7	235.1	223.8	213.5	206.9	200.1	196.0	189.3	186.6	184.9
37.5°	246.0	228.9	216.5	204.5	196.4	189.1	184.9	178.3	175.5	171.6	167.9
40°	231.5	214.7	202.9	193.0	184.0	178.6	173.3	168.0	163.7	162.0	157.5
42.5°	216.9	203.2	191.2	180.6	174.5	168.7	162.0	158.2	153.7	150.8	148.1
45°	196.6	184.4	174.3	165.5	158.8	152.7	148.4	142.0	139.5	133.8	131.4
47.5°	178.7	167.5	157.7	149.4	142.9	139.0	132.7	127.6	123.6	120.0	117.0
50°	166.1	156.6	147.2	139.8	134.0	128.3	121.8	119.3	113.0	111.2	109.5
52.5°	154.5	145.5	137.0	129.7	123.8	118.3	112.6	109.3	105.0	103.3	102.0
55°	138.3	129.7	121.5	115.0	109.2	103.5	100.0	95.8	93.8	92.5	90.9
57.5°	122.0	114.3	108.0	101.4	95.5	91.0	87.0	84.5	82.5	80.7	78.8
60°	111.7	104.3	98.6	92.5	86.4	82.7	79.6	76.6	74.3	71.5	70.8
62.5°	100.7	94.2	89.0	83.1	77.8	74.5	71.5	68.7	65.9	61.9	60.8
65°	85.7	80.6	75.1	70.2	65.5	62.2	57.9	54.8	53.6	53.2	53.0
67.5°	72.1	67.2	62.5	57.5	53.3	50.2	48.0	47.5	46.7	46.5	45.9
70°	62.9	58.5	53.8	49.1	44.9	44.4	43.7	42.8	41.8	41.5	41.1
72.5°	54.8	50.2	45.5	41.8	40.0	39.3	38.5	37.6	37.0	36.6	36.4
75°	42.0	37.7	34.6	33.2	32.3	31.7	30.5	30.0	29.5	28.9	28.8
77.5°	30.3	27.8	26.4	25.6	24.5	23.9	23.2	22.6	22.2	22.1	21.8
80°	23.1	21.9	20.9	19.7	19.4	18.6	18.4	17.8	18.0	17.4	17.4
82.5°	17.9	16.4	15.6	15.1	14.6	14.0	13.9	13.6	13.6	13.2	13.2
85°	9.2	8.8	8.4	8.0	8.0	7.4	7.7	7.4	7.4	7.1	6.9
87.5°	4.9	5.2	5.2	5.5	5.9	6.0	6.2	6.3	6.5	6.6	6.6
90°	9.9	11.8	13.4	15.1	16.7	18.3	19.3	20.3	21.4	22.4	23.1
92.5°	17.7	18.0	18.8	19.6	20.4	21.3	21.8	22.3	22.8	23.3	23.8
95°	32.6	30.0	31.4	32.9	34.3	35.7	36.7	37.7	38.7	39.8	40.2
97.5°	42.4	34.6	37.9	41.2	44.5	47.8	48.6	49.4	50.2	51.1	51.6
100°	50.5	38.3	41.8	45.3	48.7	52.2	53.8	55.4	57.1	58.7	59.7
102.5°	186.8	169.4	140.4	111.5	82.6	53.6	55.8	57.9	60.0	62.1	63.5
105°	302.6	277.9	222.4	166.9	111.3	55.8	58.0	60.3	62.5	64.7	66.3
107.5°	375.4	344.6	277.9	211.4	144.7	78.2	75.9	73.6	71.3	69.1	68.4
110°	422.6	395.3	336.5	277.8	219.0	160.1	139.8	119.5	99.2	78.8	69.1

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	467.4	462.1	447.5	433.1	418.5	404.0	329.8	255.6	181.4	107.2	70.4
115°	540.1	544.4	549.5	554.6	559.6	564.7	470.5	376.3	282.2	188.0	133.6
117.5°	607.9	611.5	615.0	618.5	622.0	625.5	602.7	580.0	557.2	534.4	498.9
120°	652.9	656.3	660.0	663.6	667.3	670.9	673.3	675.8	678.2	680.7	668.1
122.5°	694.6	698.2	702.1	706.1	710.2	714.1	715.6	717.0	718.5	720.0	718.0
125°	754.7	757.9	761.8	765.7	769.6	773.4	774.8	776.3	777.7	779.1	780.2
127.5°	812.4	815.3	818.2	821.0	824.0	826.9	829.0	831.0	833.1	835.2	836.3
130°	849.5	852.3	854.5	856.8	859.0	861.3	863.5	865.7	868.0	870.2	871.2
132.5°	884.2	886.7	889.0	891.2	893.5	895.7	897.6	899.5	901.5	903.4	904.2
135°	933.8	936.3	938.1	940.0	941.8	943.7	945.7	947.7	949.8	951.7	952.6
137.5°	978.0	980.2	982.3	984.4	986.4	988.5	990.5	992.5	994.5	996.4	997.1
140°	1006.9	1008.8	1011.1	1013.3	1015.5	1017.8	1019.6	1021.5	1023.3	1025.1	1025.5
142.5°	1032.6	1034.7	1037.2	1039.7	1042.3	1044.9	1046.5	1048.2	1049.9	1051.5	1051.9
145°	1067.3	1068.9	1072.4	1075.8	1079.3	1082.8	1084.2	1085.6	1087.0	1088.5	1088.6
147.5°	1101.1	1102.4	1105.9	1109.2	1112.7	1116.1	1117.1	1118.2	1119.3	1120.3	1120.4
150°	1122.0	1122.8	1126.1	1129.4	1132.6	1135.8	1137.1	1138.3	1139.5	1140.7	1140.8
152.5°	1141.1	1141.8	1144.9	1148.0	1151.1	1154.2	1155.4	1156.6	1157.9	1159.1	1159.0
155°	1168.8	1169.2	1171.6	1174.0	1176.5	1178.9	1180.1	1181.3	1182.6	1183.8	1183.5
157.5°	1192.5	1192.6	1194.3	1195.9	1197.7	1199.4	1200.8	1202.1	1203.5	1204.9	1204.8
160°	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9	1213.1	1214.3	1215.5	1216.7	1216.6
162.5°	1218.7	1218.6	1219.6	1220.7	1221.8	1222.8	1224.2	1225.5	1226.9	1228.4	1228.1
165°	1234.4	1234.1	1234.7	1235.4	1236.0	1236.6	1237.9	1239.4	1240.8	1242.3	1242.3
167.5°	1246.1	1245.8	1246.4	1246.9	1247.5	1248.1	1249.5	1250.9	1252.3	1253.8	1253.5
170°	1252.8	1252.3	1252.8	1253.1	1253.5	1254.0	1255.3	1256.8	1258.2	1259.6	1259.4
172.5°	1257.1	1256.7	1257.1	1257.5	1257.9	1258.4	1259.7	1261.2	1262.6	1264.0	1263.9
175°	1262.0	1261.5	1261.9	1262.3	1262.7	1263.1	1264.6	1265.9	1267.4	1268.8	1268.5
177.5°	1264.0	1263.5	1263.7	1263.9	1264.0	1264.2	1265.3	1266.4	1267.6	1268.8	1268.6
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9

TEST NUMBER: P331639-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	540.5	540.8	540.4	540.6	540.4	540.8	540.5	542.3	542.5	542.9	542.5
5°	503.6	501.3	500.8	500.3	500.8	501.3	503.6	504.5	505.4	507.0	509.7
7.5°	459.6	459.3	458.2	456.8	458.2	459.3	459.6	463.0	465.6	468.6	474.2
10°	431.3	430.2	430.1	428.7	430.1	430.2	431.3	435.6	438.7	443.0	450.6
12.5°	398.0	391.8	391.2	387.7	391.2	391.8	398.0	403.6	412.1	416.2	424.3
15°	339.0	337.8	333.8	331.3	333.8	337.8	339.0	343.6	346.7	358.1	371.2
17.5°	305.1	301.3	300.1	299.5	300.1	301.3	305.1	307.4	311.9	317.9	325.7
20°	283.4	279.9	279.3	278.9	279.3	279.9	283.4	286.1	289.6	296.1	304.3
22.5°	268.4	264.7	263.2	262.0	263.2	264.7	268.4	270.4	273.7	278.7	284.3
25°	242.7	241.3	240.6	240.1	240.6	241.3	242.7	244.7	247.8	254.7	260.5
27.5°	222.7	219.6	219.0	218.0	219.0	219.6	222.7	226.1	229.4	232.5	237.7
30°	211.2	210.3	208.9	207.7	208.9	210.3	211.2	213.0	215.2	220.4	225.5
32.5°	197.8	196.9	195.7	195.2	195.7	196.9	197.8	200.2	204.7	207.9	211.5
35°	182.9	180.1	178.9	177.2	178.9	180.1	182.9	184.9	186.6	189.3	196.0
37.5°	167.1	165.7	164.0	164.6	164.0	165.7	167.1	167.9	171.6	175.5	178.3
40°	154.9	153.9	153.5	153.3	153.5	153.9	154.9	157.5	162.0	163.7	168.0
42.5°	145.2	142.5	141.5	141.5	141.5	142.5	145.2	148.1	150.8	153.7	158.2
45°	130.4	127.9	126.1	126.3	126.1	127.9	130.4	131.4	133.8	139.5	142.0
47.5°	115.4	115.3	114.2	114.5	114.2	115.3	115.4	117.0	120.0	123.6	127.6
50°	108.1	107.0	106.2	106.4	106.2	107.0	108.1	109.5	111.2	113.0	119.3
52.5°	101.3	100.2	99.6	100.5	99.6	100.2	101.3	102.0	103.3	105.0	109.3
55°	90.0	88.8	88.6	88.4	88.6	88.8	90.0	90.9	92.5	93.8	95.8
57.5°	77.3	76.5	75.3	74.9	75.3	76.5	77.3	78.8	80.7	82.5	84.5
60°	68.3	66.7	64.7	64.6	64.7	66.7	68.3	70.8	71.5	74.3	76.6
62.5°	59.9	59.7	59.2	59.2	59.2	59.7	59.9	60.8	61.9	65.9	68.7
65°	52.6	52.4	52.6	52.8	52.6	52.4	52.6	53.0	53.2	53.6	54.8
67.5°	45.8	45.5	45.1	45.3	45.1	45.5	45.8	45.9	46.5	46.7	47.5
70°	40.6	40.5	40.3	40.3	40.3	40.5	40.6	41.1	41.5	41.8	42.8
72.5°	35.6	35.6	35.5	35.3	35.5	35.6	35.6	36.4	36.6	37.0	37.6
75°	28.6	28.2	28.2	28.2	28.2	28.2	28.6	28.8	28.9	29.5	30.0
77.5°	21.8	21.5	21.4	21.2	21.4	21.5	21.8	21.8	22.1	22.2	22.6
80°	17.2	17.0	16.8	16.8	16.8	17.0	17.2	17.4	17.4	18.0	17.8
82.5°	13.2	12.9	12.9	12.7	12.9	12.9	13.2	13.2	13.2	13.6	13.6
85°	7.1	7.2	7.1	7.4	7.1	7.2	7.1	6.9	7.1	7.4	7.4
87.5°	6.7	6.6	6.9	6.8	6.9	6.6	6.7	6.6	6.6	6.5	6.3
90°	23.5	23.9	24.3	24.7	24.3	23.9	23.5	23.1	22.4	21.4	20.3
92.5°	24.0	24.2	24.5	24.7	24.5	24.2	24.0	23.8	23.3	22.8	22.3
95°	40.0	39.8	39.5	39.3	39.5	39.8	40.0	40.2	39.8	38.7	37.7
97.5°	51.8	52.1	52.3	52.5	52.3	52.1	51.8	51.6	51.1	50.2	49.4
100°	60.1	60.5	61.0	61.3	61.0	60.5	60.1	59.7	58.7	57.1	55.4
102.5°	64.0	64.6	65.2	65.7	65.2	64.6	64.0	63.5	62.1	60.0	57.9
105°	67.2	67.9	68.7	69.6	68.7	67.9	67.2	66.3	64.7	62.5	60.3
107.5°	69.1	69.9	70.8	71.5	70.8	69.9	69.1	68.4	69.1	71.3	73.6
110°	69.8	70.7	71.5	72.3	71.5	70.7	69.8	69.1	78.8	99.2	119.5

TEST NUMBER: P331639-935

CATALOG NUMBER: SA2XXRDIP-C290D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	71.1	71.7	72.4	73.0	72.4	71.7	71.1	70.4	107.2	181.4	255.6
115°	119.0	104.4	89.7	75.1	89.7	104.4	119.0	133.6	188.0	282.2	376.3
117.5°	450.8	402.7	354.6	306.4	354.6	402.7	450.8	498.9	534.4	557.2	580.0
120°	640.7	613.2	585.7	558.4	585.7	613.2	640.7	668.1	680.7	678.2	675.8
122.5°	712.7	707.4	702.1	696.7	702.1	707.4	712.7	718.0	720.0	718.5	717.0
125°	780.8	781.4	782.0	782.6	782.0	781.4	780.8	780.2	779.1	777.7	776.3
127.5°	836.4	836.5	836.6	836.7	836.6	836.5	836.4	836.3	835.2	833.1	831.0
130°	871.1	870.8	870.6	870.5	870.6	870.8	871.1	871.2	870.2	868.0	865.7
132.5°	904.0	903.8	903.6	903.4	903.6	903.8	904.0	904.2	903.4	901.5	899.5
135°	952.2	951.7	951.4	951.0	951.4	951.7	952.2	952.6	951.7	949.8	947.7
137.5°	996.4	995.7	995.1	994.4	995.1	995.7	996.4	997.1	996.4	994.5	992.5
140°	1024.5	1023.5	1022.4	1021.5	1022.4	1023.5	1024.5	1025.5	1025.1	1023.3	1021.5
142.5°	1050.9	1049.8	1048.9	1047.8	1048.9	1049.8	1050.9	1051.9	1051.5	1049.9	1048.2
145°	1087.7	1086.7	1085.6	1084.6	1085.6	1086.7	1087.7	1088.6	1088.5	1087.0	1085.6
147.5°	1119.6	1118.7	1117.8	1117.0	1117.8	1118.7	1119.6	1120.4	1120.3	1119.3	1118.2
150°	1139.8	1138.8	1137.8	1136.8	1137.8	1138.8	1139.8	1140.8	1140.7	1139.5	1138.3
152.5°	1157.6	1156.3	1154.9	1153.7	1154.9	1156.3	1157.6	1159.0	1159.1	1157.9	1156.6
155°	1181.9	1180.3	1178.7	1177.1	1178.7	1180.3	1181.9	1183.5	1183.8	1182.6	1181.3
157.5°	1203.2	1201.6	1200.1	1198.4	1200.1	1201.6	1203.2	1204.8	1204.9	1203.5	1202.1
160°	1215.2	1213.8	1212.4	1210.9	1212.4	1213.8	1215.2	1216.6	1216.7	1215.5	1214.3
162.5°	1226.4	1224.7	1222.9	1221.2	1222.9	1224.7	1226.4	1228.1	1228.4	1226.9	1225.5
165°	1240.8	1239.4	1237.9	1236.6	1237.9	1239.4	1240.8	1242.3	1242.3	1240.8	1239.4
167.5°	1251.7	1249.9	1248.1	1246.2	1248.1	1249.9	1251.7	1253.5	1253.8	1252.3	1250.9
170°	1257.6	1255.8	1254.0	1252.1	1254.0	1255.8	1257.6	1259.4	1259.6	1258.2	1256.8
172.5°	1262.0	1260.2	1258.4	1256.5	1258.4	1260.2	1262.0	1263.9	1264.0	1262.6	1261.2
175°	1266.4	1264.4	1262.4	1260.3	1262.4	1264.4	1266.4	1268.5	1268.8	1267.4	1265.9
177.5°	1267.1	1265.7	1264.2	1262.7	1264.2	1265.7	1267.1	1268.6	1268.8	1267.6	1266.4
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9

TEST NUMBER: P331639-935

CATALOG NUMBER: SA2XXRDIP-C290D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	541.3	543.5	546.7	548.6	551.7	553.8	554.9	556.9	558.0	562.0	566.0
5°	511.0	514.2	519.6	524.7	530.2	535.9	540.0	544.7	549.0	556.4	564.2
7.5°	476.4	480.7	489.2	497.3	506.9	514.9	521.9	529.9	537.1	547.8	558.9
10°	450.4	458.1	469.2	476.8	489.3	497.3	508.5	517.3	527.3	541.4	553.9
12.5°	428.0	437.2	446.2	456.8	468.0	481.4	493.6	505.0	516.8	531.3	546.0
15°	387.4	400.7	414.7	425.4	440.7	454.7	469.0	484.2	498.7	516.2	535.3
17.5°	335.2	350.6	373.9	392.4	410.3	424.4	442.1	460.5	477.6	498.6	520.0
20°	311.6	322.9	338.7	363.6	390.5	405.6	423.6	443.9	463.5	486.4	509.3
22.5°	292.7	302.7	315.4	334.8	364.9	385.5	404.2	424.9	447.5	470.9	496.3
25°	265.6	272.6	285.9	301.6	322.3	356.1	376.7	397.4	422.1	447.1	476.0
27.5°	245.3	251.7	260.3	275.2	290.6	315.0	347.6	370.2	394.8	422.9	453.0
30°	229.8	237.2	246.8	257.4	274.2	293.2	325.8	352.1	376.3	405.3	437.3
32.5°	218.5	224.4	232.6	243.3	257.3	275.5	301.6	333.4	357.1	387.5	421.0
35°	200.1	206.9	213.5	223.8	235.1	251.7	271.5	305.5	329.0	359.0	392.7
37.5°	184.9	189.1	196.4	204.5	216.5	228.9	246.0	276.5	301.9	331.4	365.8
40°	173.3	178.6	184.0	193.0	202.9	214.7	231.5	254.3	283.4	312.4	345.9
42.5°	162.0	168.7	174.5	180.6	191.2	203.2	216.9	236.1	265.9	293.3	326.0
45°	148.4	152.7	158.8	165.5	174.3	184.4	196.6	213.4	241.9	265.6	296.3
47.5°	132.7	139.0	142.9	149.4	157.7	167.5	178.7	193.3	216.4	238.6	267.1
50°	121.8	128.3	134.0	139.8	147.2	156.6	166.1	180.1	198.7	222.0	248.6
52.5°	112.6	118.3	123.8	129.7	137.0	145.5	154.5	166.9	182.7	204.1	230.0
55°	100.0	103.5	109.2	115.0	121.5	129.7	138.3	148.6	162.3	180.3	201.2
57.5°	87.0	91.0	95.5	101.4	108.0	114.3	122.0	131.4	142.2	158.4	176.3
60°	79.6	82.7	86.4	92.5	98.6	104.3	111.7	119.5	129.7	143.8	159.0
62.5°	71.5	74.5	77.8	83.1	89.0	94.2	100.7	109.0	117.6	130.4	143.8
65°	57.9	62.2	65.5	70.2	75.1	80.6	85.7	92.3	100.0	110.1	122.0
67.5°	48.0	50.2	53.3	57.5	62.5	67.2	72.1	77.2	83.9	91.7	101.2
70°	43.7	44.4	44.9	49.1	53.8	58.5	62.9	67.8	73.5	80.0	88.2
72.5°	38.5	39.3	40.0	41.8	45.5	50.2	54.8	58.5	63.8	69.2	75.9
75°	30.5	31.7	32.3	33.2	34.6	37.7	42.0	45.5	48.7	52.8	58.1
77.5°	23.2	23.9	24.5	25.6	26.4	27.8	30.3	33.4	36.4	38.7	42.4
80°	18.4	18.6	19.4	19.7	20.9	21.9	23.1	25.7	28.6	29.5	32.1
82.5°	13.9	14.0	14.6	15.1	15.6	16.4	17.9	18.6	20.9	22.2	23.8
85°	7.7	7.4	8.0	8.0	8.4	8.8	9.2	10.2	10.8	12.3	12.7
87.5°	6.2	6.0	5.9	5.5	5.2	5.2	4.9	4.6	4.5	4.6	4.7
90°	19.3	18.3	16.7	15.1	13.4	11.8	9.9	7.7	5.4	3.2	0.9
92.5°	21.8	21.3	20.4	19.6	18.8	18.0	17.7	17.9	18.1	18.3	18.5
95°	36.7	35.7	34.3	32.9	31.4	30.0	32.6	39.3	46.1	52.8	59.5
97.5°	48.6	47.8	44.5	41.2	37.9	34.6	42.4	61.3	80.2	99.2	118.0
100°	53.8	52.2	48.7	45.3	41.8	38.3	50.5	78.4	106.2	134.1	162.0
102.5°	55.8	53.6	82.6	111.5	140.4	169.4	186.8	192.6	198.5	204.4	210.3
105°	58.0	55.8	111.3	166.9	222.4	277.9	302.6	296.5	290.4	284.4	278.3
107.5°	75.9	78.2	144.7	211.4	277.9	344.6	375.4	370.4	365.5	360.6	355.7
110°	139.8	160.1	219.0	277.8	336.5	395.3	422.6	418.3	414.1	409.7	405.4

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	329.8	404.0	418.5	433.1	447.5	462.1	467.4	463.6	459.9	456.2	452.4
115°	470.5	564.7	559.6	554.6	549.5	544.4	540.1	536.7	533.2	529.8	526.3
117.5°	602.7	625.5	622.0	618.5	615.0	611.5	607.9	604.0	600.1	596.2	592.4
120°	673.3	670.9	667.3	663.6	660.0	656.3	652.9	649.9	646.8	643.8	640.7
122.5°	715.6	714.1	710.2	706.1	702.1	698.2	694.6	691.4	688.1	684.9	681.7
125°	774.8	773.4	769.6	765.7	761.8	757.9	754.7	752.1	749.4	746.7	744.2
127.5°	829.0	826.9	824.0	821.0	818.2	815.3	812.4	809.5	806.6	803.7	800.7
130°	863.5	861.3	859.0	856.8	854.5	852.3	849.5	846.4	843.1	839.8	836.5
132.5°	897.6	895.7	893.5	891.2	889.0	886.7	884.2	881.5	878.7	876.0	873.1
135°	945.7	943.7	941.8	940.0	938.1	936.3	933.8	930.6	927.3	924.0	920.8
137.5°	990.5	988.5	986.4	984.4	982.3	980.2	978.0	975.8	973.4	971.2	968.9
140°	1019.6	1017.8	1015.5	1013.3	1011.1	1008.8	1006.9	1005.3	1003.7	1002.0	1000.4
142.5°	1046.5	1044.9	1042.3	1039.7	1037.2	1034.7	1032.6	1031.1	1029.7	1028.2	1026.7
145°	1084.2	1082.8	1079.3	1075.8	1072.4	1068.9	1067.3	1067.6	1067.7	1067.9	1068.2
147.5°	1117.1	1116.1	1112.7	1109.2	1105.9	1102.4	1101.1	1101.9	1102.7	1103.5	1104.2
150°	1137.1	1135.8	1132.6	1129.4	1126.1	1122.8	1122.0	1123.3	1124.8	1126.2	1127.7
152.5°	1155.4	1154.2	1151.1	1148.0	1144.9	1141.8	1141.1	1142.6	1144.2	1145.8	1147.4
155°	1180.1	1178.9	1176.5	1174.0	1171.6	1169.2	1168.8	1170.6	1172.5	1174.3	1176.1
157.5°	1200.8	1199.4	1197.7	1195.9	1194.3	1192.6	1192.5	1194.0	1195.6	1197.1	1198.7
160°	1213.1	1211.9	1210.7	1209.4	1208.2	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9
162.5°	1224.2	1222.8	1221.8	1220.7	1219.6	1218.6	1218.7	1219.9	1221.1	1222.4	1223.6
165°	1237.9	1236.6	1236.0	1235.4	1234.7	1234.1	1234.4	1235.6	1236.8	1238.0	1239.3
167.5°	1249.5	1248.1	1247.5	1246.9	1246.4	1245.8	1246.1	1247.3	1248.5	1249.8	1251.0
170°	1255.3	1254.0	1253.5	1253.1	1252.8	1252.3	1252.8	1254.0	1255.2	1256.4	1257.6
172.5°	1259.7	1258.4	1257.9	1257.5	1257.1	1256.7	1257.1	1258.4	1259.6	1260.8	1262.0
175°	1264.6	1263.1	1262.7	1262.3	1261.9	1261.5	1262.0	1263.4	1264.8	1266.3	1267.7
177.5°	1265.3	1264.2	1264.0	1263.9	1263.7	1263.5	1264.0	1265.2	1266.3	1267.5	1268.6
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	566.2	566.6	569.7	571.2	573.9	575.1	576.4	576.0	576.0	576.6	581.0
5°	567.4	571.3	577.1	582.8	588.3	593.0	596.2	599.3	600.5	606.1	611.1
7.5°	565.3	572.6	582.2	590.9	601.2	609.3	616.0	622.2	626.3	634.6	643.0
10°	562.7	572.8	583.8	595.0	609.2	620.0	630.9	639.4	642.0	654.4	661.4
12.5°	557.3	570.9	584.9	599.3	613.3	628.1	640.2	648.6	658.2	669.3	682.3
15°	549.4	565.0	583.2	601.8	621.7	639.7	652.6	667.3	677.9	690.0	701.4
17.5°	538.0	558.1	581.2	602.7	625.8	645.1	662.9	676.9	684.3	691.3	692.9
20°	528.8	550.5	577.7	603.1	626.2	648.5	666.2	677.9	679.8	680.0	669.7
22.5°	519.0	543.5	572.0	598.0	625.6	650.4	664.1	669.1	661.3	648.1	628.0
25°	500.8	529.3	562.3	592.0	622.2	645.6	650.3	641.5	614.3	585.7	549.6
27.5°	481.2	513.2	548.5	581.6	613.7	628.3	618.1	586.3	537.4	494.8	443.2
30°	466.8	502.7	537.4	574.4	604.2	610.4	587.1	540.4	483.3	419.1	367.6
32.5°	450.4	487.9	526.2	564.4	589.3	583.2	544.8	487.2	420.3	357.1	308.6
35°	427.0	465.6	507.0	545.3	561.1	534.7	477.2	402.3	333.8	275.0	241.5
37.5°	399.8	442.0	484.9	520.1	519.0	475.0	396.7	319.3	261.8	227.0	203.2
40°	380.6	423.3	469.6	499.3	486.6	429.3	344.4	271.5	229.4	201.6	184.3
42.5°	362.1	404.9	451.0	474.6	452.5	382.0	297.5	240.3	205.6	184.0	169.9
45°	330.7	375.9	418.5	431.6	392.1	314.5	240.6	199.1	176.0	160.0	150.2
47.5°	300.0	344.5	383.4	383.6	330.2	255.0	202.9	172.3	152.6	140.2	133.1
50°	281.2	323.5	356.1	351.0	290.4	226.9	181.5	155.1	138.7	129.1	121.7
52.5°	260.1	301.1	329.4	315.0	256.8	199.7	162.2	140.1	126.5	118.1	111.5
55°	229.4	265.8	285.8	263.8	209.5	166.1	137.1	119.7	109.5	102.5	96.8
57.5°	199.2	229.3	241.8	216.3	172.5	137.7	116.0	102.9	92.8	87.7	84.8
60°	180.3	206.0	214.7	186.6	150.0	120.5	102.7	90.6	83.1	79.8	76.9
62.5°	161.7	182.6	186.2	160.5	130.8	105.5	90.1	79.9	75.0	71.8	69.1
65°	134.1	149.2	147.5	126.7	103.5	83.7	72.6	66.3	62.6	58.1	53.2
67.5°	110.5	119.7	114.1	98.6	79.0	65.1	57.8	53.0	48.4	44.2	43.0
70°	95.4	100.7	94.9	80.6	64.7	54.6	48.7	43.0	40.3	39.3	37.5
72.5°	81.0	82.9	76.5	64.3	52.7	45.2	39.4	36.3	34.8	34.0	32.9
75°	60.8	59.5	54.0	44.4	36.6	31.5	29.7	28.6	27.6	26.8	26.2
77.5°	42.7	40.7	35.8	29.5	25.5	23.1	22.0	21.4	20.9	20.5	19.9
80°	32.1	30.7	25.8	21.1	19.4	18.2	17.6	16.8	16.8	16.4	15.8
82.5°	23.5	22.0	17.7	15.5	14.6	13.8	13.3	12.9	12.7	12.8	12.4
85°	12.3	10.0	8.8	8.4	7.8	7.4	7.7	7.2	7.2	7.2	7.1
87.5°	4.4	4.0	4.3	4.6	5.2	5.5	5.7	6.0	6.5	6.5	6.9
90°	3.2	5.4	7.7	9.9	11.8	13.4	15.1	16.7	18.3	19.3	20.3
92.5°	18.3	18.1	17.9	17.7	18.0	18.8	19.6	20.4	21.3	21.8	22.3
95°	52.8	46.1	39.3	32.6	30.0	31.4	32.9	34.3	35.7	36.7	37.7
97.5°	99.2	80.2	61.3	42.4	34.6	37.9	41.2	44.5	47.8	48.6	49.4
100°	134.1	106.2	78.4	50.5	38.3	41.8	45.3	48.7	52.2	53.8	55.4
102.5°	204.4	198.5	192.6	186.8	169.4	140.4	111.5	82.6	53.6	55.8	57.9
105°	284.4	290.4	296.5	302.6	277.9	222.4	166.9	111.3	55.8	58.0	60.3
107.5°	360.6	365.5	370.4	375.4	344.6	277.9	211.4	144.7	78.2	75.9	73.6
110°	409.7	414.1	418.3	422.6	395.3	336.5	277.8	219.0	160.1	139.8	119.5

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	456.2	459.9	463.6	467.4	462.1	447.5	433.1	418.5	404.0	329.8	255.6
115°	529.8	533.2	536.7	540.1	544.4	549.5	554.6	559.6	564.7	470.5	376.3
117.5°	596.2	600.1	604.0	607.9	611.5	615.0	618.5	622.0	625.5	602.7	580.0
120°	643.8	646.8	649.9	652.9	656.3	660.0	663.6	667.3	670.9	673.3	675.8
122.5°	684.9	688.1	691.4	694.6	698.2	702.1	706.1	710.2	714.1	715.6	717.0
125°	746.7	749.4	752.1	754.7	757.9	761.8	765.7	769.6	773.4	774.8	776.3
127.5°	803.7	806.6	809.5	812.4	815.3	818.2	821.0	824.0	826.9	829.0	831.0
130°	839.8	843.1	846.4	849.5	852.3	854.5	856.8	859.0	861.3	863.5	865.7
132.5°	876.0	878.7	881.5	884.2	886.7	889.0	891.2	893.5	895.7	897.6	899.5
135°	924.0	927.3	930.6	933.8	936.3	938.1	940.0	941.8	943.7	945.7	947.7
137.5°	971.2	973.4	975.8	978.0	980.2	982.3	984.4	986.4	988.5	990.5	992.5
140°	1002.0	1003.7	1005.3	1006.9	1008.8	1011.1	1013.3	1015.5	1017.8	1019.6	1021.5
142.5°	1028.2	1029.7	1031.1	1032.6	1034.7	1037.2	1039.7	1042.3	1044.9	1046.5	1048.2
145°	1067.9	1067.7	1067.6	1067.3	1068.9	1072.4	1075.8	1079.3	1082.8	1084.2	1085.6
147.5°	1103.5	1102.7	1101.9	1101.1	1102.4	1105.9	1109.2	1112.7	1116.1	1117.1	1118.2
150°	1126.2	1124.8	1123.3	1122.0	1122.8	1126.1	1129.4	1132.6	1135.8	1137.1	1138.3
152.5°	1145.8	1144.2	1142.6	1141.1	1141.8	1144.9	1148.0	1151.1	1154.2	1155.4	1156.6
155°	1174.3	1172.5	1170.6	1168.8	1169.2	1171.6	1174.0	1176.5	1178.9	1180.1	1181.3
157.5°	1197.1	1195.6	1194.0	1192.5	1192.6	1194.3	1195.9	1197.7	1199.4	1200.8	1202.1
160°	1210.7	1209.4	1208.2	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9	1213.1	1214.3
162.5°	1222.4	1221.1	1219.9	1218.7	1218.6	1219.6	1220.7	1221.8	1222.8	1224.2	1225.5
165°	1238.0	1236.8	1235.6	1234.4	1234.1	1234.7	1235.4	1236.0	1236.6	1237.9	1239.4
167.5°	1249.8	1248.5	1247.3	1246.1	1245.8	1246.4	1246.9	1247.5	1248.1	1249.5	1250.9
170°	1256.4	1255.2	1254.0	1252.8	1252.3	1252.8	1253.1	1253.5	1254.0	1255.3	1256.8
172.5°	1260.8	1259.6	1258.4	1257.1	1256.7	1257.1	1257.5	1257.9	1258.4	1259.7	1261.2
175°	1266.3	1264.8	1263.4	1262.0	1261.5	1261.9	1262.3	1262.7	1263.1	1264.6	1265.9
177.5°	1267.5	1266.3	1265.2	1264.0	1263.5	1263.7	1263.9	1264.0	1264.2	1265.3	1266.4
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	582.6	584.6	585.6	585.6	586.7	586.2	585.7
5°	616.0	619.7	620.6	624.1	626.6	625.9	626.2
7.5°	649.4	655.3	661.2	663.9	664.3	665.9	666.5
10°	669.9	674.8	683.9	682.6	689.4	693.4	686.9
12.5°	689.6	696.2	702.6	704.3	708.2	709.5	706.9
15°	707.4	710.9	711.3	710.3	711.5	710.5	706.8
17.5°	690.8	685.0	673.5	668.0	663.7	657.2	654.6
20°	663.2	646.4	626.8	619.0	609.8	591.9	596.2
22.5°	603.7	584.6	565.0	542.2	531.2	514.2	513.2
25°	511.3	478.2	441.8	416.4	401.5	384.5	377.0
27.5°	397.5	355.9	326.1	311.0	297.2	283.8	283.2
30°	322.7	291.4	268.4	255.5	247.0	241.3	242.5
32.5°	272.0	250.6	235.0	224.3	218.1	213.8	213.7
35°	222.4	207.7	197.7	193.2	188.7	185.6	185.8
37.5°	190.3	181.5	175.9	171.0	168.2	166.6	165.7
40°	173.8	166.6	162.3	159.4	157.0	154.9	154.5
42.5°	160.9	154.9	150.6	148.3	146.1	144.6	144.2
45°	142.8	137.8	134.0	131.4	130.4	129.1	129.1
47.5°	127.0	122.2	119.2	117.5	115.9	114.9	114.9
50°	116.4	112.6	109.9	108.9	107.5	107.0	106.8
52.5°	106.9	104.0	102.1	101.4	100.8	100.1	100.2
55°	93.8	92.3	91.5	90.9	90.0	88.8	89.5
57.5°	83.0	81.6	79.6	77.7	76.8	75.9	76.3
60°	75.3	72.6	69.8	67.7	67.1	65.3	65.3
62.5°	65.6	61.7	58.4	57.2	56.6	55.8	55.6
65°	50.5	48.9	48.1	47.4	46.9	46.9	46.6
67.5°	41.8	41.2	40.3	40.1	39.8	39.6	39.5
70°	36.9	36.2	35.8	35.6	35.2	35.4	34.8
72.5°	32.3	31.7	31.6	31.1	30.8	30.8	30.4
75°	25.4	25.4	25.2	25.1	24.6	24.5	24.6
77.5°	19.5	19.6	19.3	19.2	19.2	19.2	19.0
80°	15.7	15.8	15.7	15.4	15.2	15.4	15.2
82.5°	12.4	12.1	12.1	12.0	12.0	11.9	11.8
85°	7.1	7.2	7.1	6.9	6.9	6.9	7.1
87.5°	7.0	7.1	7.3	7.3	7.4	7.5	7.4
90°	21.4	22.4	23.1	23.5	23.9	24.3	24.7
92.5°	22.8	23.3	23.8	24.0	24.2	24.5	24.7
95°	38.7	39.8	40.2	40.0	39.8	39.5	39.3
97.5°	50.2	51.1	51.6	51.8	52.1	52.3	52.5
100°	57.1	58.7	59.7	60.1	60.5	61.0	61.3
102.5°	60.0	62.1	63.5	64.0	64.6	65.2	65.7
105°	62.5	64.7	66.3	67.2	67.9	68.7	69.6
107.5°	71.3	69.1	68.4	69.1	69.9	70.8	71.5
110°	99.2	78.8	69.1	69.8	70.7	71.5	72.3

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	181.4	107.2	70.4	71.1	71.7	72.4	73.0
115°	282.2	188.0	133.6	119.0	104.4	89.7	75.1
117.5°	557.2	534.4	498.9	450.8	402.7	354.6	306.4
120°	678.2	680.7	668.1	640.7	613.2	585.7	558.4
122.5°	718.5	720.0	718.0	712.7	707.4	702.1	696.7
125°	777.7	779.1	780.2	780.8	781.4	782.0	782.6
127.5°	833.1	835.2	836.3	836.4	836.5	836.6	836.7
130°	868.0	870.2	871.2	871.1	870.8	870.6	870.5
132.5°	901.5	903.4	904.2	904.0	903.8	903.6	903.4
135°	949.8	951.7	952.6	952.2	951.7	951.4	951.0
137.5°	994.5	996.4	997.1	996.4	995.7	995.1	994.4
140°	1023.3	1025.1	1025.5	1024.5	1023.5	1022.4	1021.5
142.5°	1049.9	1051.5	1051.9	1050.9	1049.8	1048.9	1047.8
145°	1087.0	1088.5	1088.6	1087.7	1086.7	1085.6	1084.6
147.5°	1119.3	1120.3	1120.4	1119.6	1118.7	1117.8	1117.0
150°	1139.5	1140.7	1140.8	1139.8	1138.8	1137.8	1136.8
152.5°	1157.9	1159.1	1159.0	1157.6	1156.3	1154.9	1153.7
155°	1182.6	1183.8	1183.5	1181.9	1180.3	1178.7	1177.1
157.5°	1203.5	1204.9	1204.8	1203.2	1201.6	1200.1	1198.4
160°	1215.5	1216.7	1216.6	1215.2	1213.8	1212.4	1210.9
162.5°	1226.9	1228.4	1228.1	1226.4	1224.7	1222.9	1221.2
165°	1240.8	1242.3	1242.3	1240.8	1239.4	1237.9	1236.6
167.5°	1252.3	1253.8	1253.5	1251.7	1249.9	1248.1	1246.2
170°	1258.2	1259.6	1259.4	1257.6	1255.8	1254.0	1252.1
172.5°	1262.6	1264.0	1263.9	1262.0	1260.2	1258.4	1256.5
175°	1267.4	1268.8	1268.5	1266.4	1264.4	1262.4	1260.3
177.5°	1267.6	1268.8	1268.6	1267.1	1265.7	1264.2	1262.7
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9

(END OF REPORT)