

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: P331640-927

Luminaire Tested: **SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

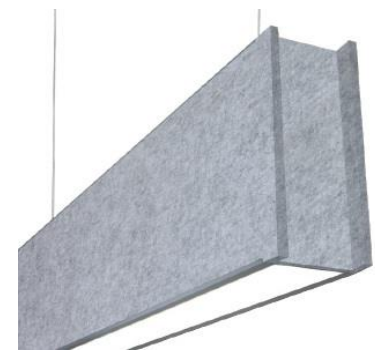
Test Information

Test Method: LM-79-08
Report Number: P331640-927
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: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3948.4 lumens
Efficiency: N/A
Efficacy: 93.6 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

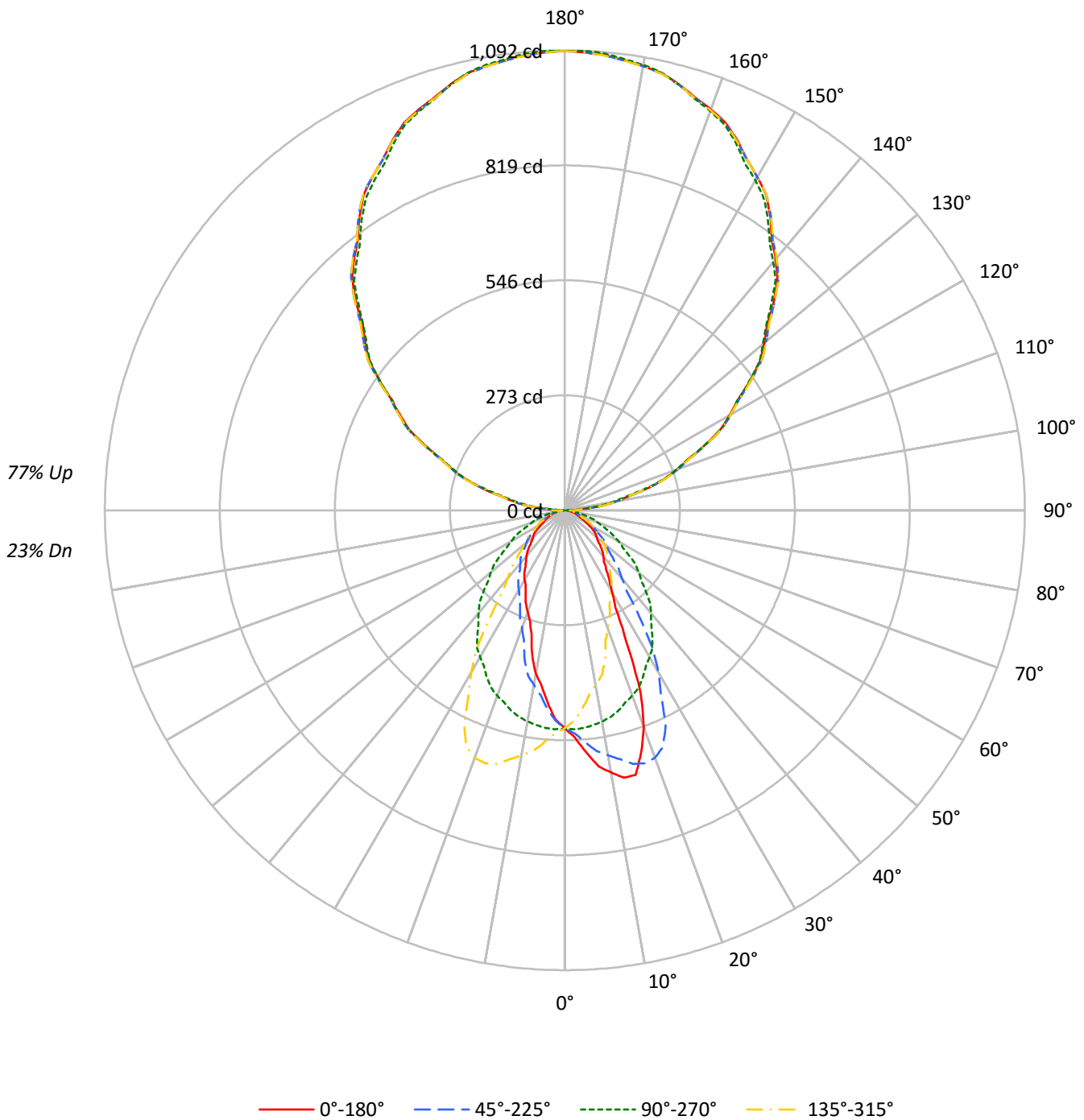
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	82	78	75	73	60	58	56	43	42	41	28	27	27	20
2	84	77	72	67	74	69	64	60	53	50	47	38	37	35	25	24	23	17
3	77	68	61	56	68	61	55	51	47	43	40	34	32	30	23	21	20	15
4	70	60	53	48	62	54	48	43	42	38	34	31	28	26	20	19	18	13
5	65	54	46	41	57	48	42	37	38	33	30	28	25	23	19	17	16	12
6	60	48	41	35	53	43	37	32	34	29	26	25	22	20	17	15	14	11
7	55	44	36	31	49	39	33	28	31	26	23	23	20	18	16	14	13	10
8	51	40	32	27	45	36	29	25	28	24	20	21	18	16	14	13	11	9
9	47	36	29	24	42	32	26	22	26	21	18	19	16	14	13	12	10	8
10	44	33	26	22	39	30	24	20	24	19	16	18	15	13	12	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8360	8360	8360	8360
5°	9339	8413	7460	8413
10°	10362	8355	6466	8355
15°	10870	8232	5095	8232
20°	9424	8052	4409	8052
25°	6180	7803	3935	7803
30°	4161	7500	3563	7500
35°	3370	7121	3213	7121
40°	2995	6709	2974	6709
45°	2710	6224	2653	6224
50°	2467	5745	2459	5745
55°	2320	5210	2291	5210
60°	1941	4724	1918	4724
65°	1639	4290	1857	4290
70°	1511	3829	1751	3829
75°	1416	3337	1616	3337
80°	1302	2743	1432	2743
85°	1204	2167	1260	2167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.2
10°-20°	136.8	3.5
20°-30°	176.3	4.5
30°-40°	167.5	4.2
40°-50°	143.5	3.6
50°-60°	109.3	2.8
60°-70°	69.1	1.7
70°-80°	34.5	0.9
80°-90°	13.3	0.3
90°-100°	69.1	1.7
100°-110°	214.6	5.4
110°-120°	366.8	9.3
120°-130°	482.4	12.2
130°-140°	541.4	13.7
140°-150°	530.9	13.4
150°-160°	445.3	11.3
160°-170°	295.3	7.5
170°-180°	103.2	2.6
0°-30°	362.2	9.2
0°-40°	529.7	13.4
0°-60°	782.5	19.8
0°-90°	899.4	22.8
90°-120°	650.5	16.5
90°-150°	2205.2	55.9
90°-180°	3049.0	77.2
0°-180°	3948.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	518	518	518	518	518	
5°	576	519	460	519	576	57
15°	650	492	305	492	650	175
25°	347	438	221	438	347	165
35°	171	361	163	361	171	109
45°	119	273	116	273	119	92
55°	82	185	81	185	82	72
65°	43	112	49	112	43	44
75°	23	54	26	54	23	24
85°	6	12	7	12	6	8
90°	31	1	31	1	31	14
95°	57	48	57	48	57	64
105°	204	198	204	198	204	215
115°	368	368	368	368	368	363
125°	537	536	537	536	537	479
135°	701	693	701	693	701	540
145°	850	841	850	841	850	531
155°	969	962	969	962	969	446
165°	1047	1046	1047	1046	1047	295
175°	1085	1089	1085	1089	1085	103
180°	1090	1090	1090	1090	1090	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	538.9	539.3	539.8	538.8	538.8	537.9	536.0	534.6	530.5	530.0	530.0
5°	576.2	575.8	576.6	574.2	571.0	570.2	566.8	562.3	557.6	552.5	551.4
7.5°	613.2	612.7	611.2	610.9	608.4	602.9	597.5	591.6	583.8	576.2	572.4
10°	632.0	637.9	634.3	628.0	629.2	620.8	616.3	608.6	602.1	590.7	588.3
12.5°	650.4	652.8	651.6	648.0	646.4	640.6	634.5	627.7	615.8	605.6	596.8
15°	650.3	653.7	654.7	653.6	654.4	654.1	650.9	645.3	634.9	623.7	613.9
17.5°	602.3	604.7	610.6	614.6	619.6	630.3	635.6	637.5	636.0	629.6	622.8
20°	548.5	544.5	561.1	569.5	576.7	594.7	610.2	616.2	625.7	625.5	623.7
22.5°	472.1	473.1	488.8	498.8	519.8	537.9	555.5	577.8	596.3	608.5	615.6
25°	346.9	353.8	369.4	383.1	406.5	440.0	470.4	505.6	538.9	565.2	590.3
27.5°	260.5	261.1	273.5	286.1	300.0	327.4	365.8	407.8	455.3	494.5	539.5
30°	223.2	222.0	227.3	235.0	246.9	268.2	296.9	338.3	385.6	444.7	497.2
32.5°	196.6	196.7	200.7	206.4	216.2	230.5	250.3	283.9	328.6	386.7	448.2
35°	171.0	170.8	173.6	177.8	181.9	191.1	204.6	222.2	253.0	307.1	370.1
37.5°	152.5	153.3	154.7	157.3	161.8	167.0	175.1	187.0	208.8	240.9	293.8
40°	142.1	142.5	144.5	146.6	149.3	153.3	159.9	169.5	185.5	211.0	249.8
42.5°	132.7	133.0	134.4	136.4	138.6	142.5	148.1	156.3	169.3	189.2	221.1
45°	118.7	118.7	120.0	120.9	123.3	126.8	131.3	138.2	147.2	161.9	183.2
47.5°	105.8	105.8	106.6	108.1	109.6	112.4	116.8	122.5	129.0	140.4	158.5
50°	98.2	98.5	98.9	100.2	101.2	103.6	107.1	111.9	118.7	127.6	142.7
52.5°	92.2	92.1	92.8	93.3	94.0	95.7	98.3	102.6	108.7	116.4	128.9
55°	82.4	81.7	82.8	83.7	84.2	84.9	86.3	89.0	94.3	100.8	110.1
57.5°	70.2	69.9	70.7	71.5	73.2	75.1	76.4	78.0	80.7	85.4	94.7
60°	60.1	60.1	61.7	62.3	64.2	66.8	69.3	70.7	73.4	76.4	83.3
62.5°	51.2	51.3	52.0	52.6	53.7	56.8	60.4	63.5	66.1	69.0	73.5
65°	42.9	43.2	43.2	43.6	44.3	45.0	46.4	49.0	53.5	57.6	61.0
67.5°	36.4	36.4	36.6	36.9	37.1	37.9	38.5	39.6	40.6	44.5	48.8
70°	32.0	32.6	32.4	32.7	33.0	33.3	34.0	34.5	36.2	37.1	39.6
72.5°	28.0	28.4	28.4	28.6	29.1	29.2	29.7	30.3	31.3	32.0	33.4
75°	22.7	22.5	22.7	23.1	23.2	23.4	23.4	24.1	24.6	25.3	26.3
77.5°	17.5	17.7	17.7	17.7	17.7	18.1	18.0	18.3	18.9	19.3	19.6
80°	14.0	14.2	14.0	14.2	14.4	14.6	14.4	14.6	15.1	15.4	15.4
82.5°	10.9	10.9	11.0	11.0	11.1	11.1	11.4	11.4	11.8	11.7	11.9
85°	6.5	6.3	6.3	6.3	6.5	6.7	6.5	6.5	6.7	6.7	6.7
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.9	8.8	9.0	8.0
90°	31.3	31.1	30.9	30.7	30.5	30.6	31.0	31.4	31.8	32.2	27.7
92.5°	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.4	29.3	29.2	28.2
95°	57.0	57.4	57.9	58.3	58.7	58.9	58.9	58.9	58.9	58.9	58.5
97.5°	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	98.2
100°	126.0	126.3	126.5	126.7	126.9	127.0	127.0	127.0	127.0	127.0	126.4
102.5°	157.0	157.2	157.4	157.6	157.8	157.8	157.6	157.5	157.3	157.2	156.4
105°	204.3	204.3	204.3	204.3	204.3	204.1	203.7	203.3	202.9	202.4	202.0
107.5°	248.8	249.8	250.7	251.7	252.5	252.9	252.8	252.6	252.5	252.3	252.3
110°	283.4	284.0	284.6	285.3	285.9	286.2	286.2	286.2	286.2	286.2	286.2



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	316.6	317.0	317.4	317.9	318.4	318.9	319.3	319.8	320.3	320.8	320.9
115°	368.0	368.7	369.3	369.9	370.5	370.9	371.1	371.4	371.5	371.8	372.2
117.5°	417.2	417.8	418.4	419.1	419.7	420.3	420.7	421.2	421.7	422.2	423.3
120°	451.8	452.4	453.0	453.7	454.2	454.6	454.6	454.6	454.6	454.6	456.2
122.5°	485.7	486.2	486.6	487.0	487.5	487.9	488.5	488.9	489.4	489.9	491.1
125°	537.4	537.6	537.8	538.0	538.2	538.6	539.2	539.9	540.4	541.1	541.7
127.5°	584.5	585.2	585.8	586.5	587.1	587.8	588.5	589.3	590.0	590.7	591.5
130°	618.4	619.2	620.0	620.8	621.6	622.3	622.7	623.1	623.4	623.9	624.3
132.5°	650.8	651.4	652.0	652.8	653.4	654.2	655.1	655.9	656.9	657.7	657.7
135°	701.2	701.8	702.4	703.0	703.6	704.0	704.3	704.5	704.6	704.9	704.5
137.5°	746.8	747.7	748.5	749.2	750.1	750.6	750.8	750.9	751.1	751.2	750.7
140°	778.5	779.3	780.1	780.9	781.7	782.1	782.1	782.1	782.1	782.1	781.2
142.5°	807.2	808.0	808.8	809.6	810.5	810.8	810.6	810.5	810.3	810.2	809.5
145°	850.2	851.0	851.9	852.7	853.5	853.8	853.7	853.4	853.2	853.0	851.8
147.5°	888.7	889.5	890.3	891.0	891.8	892.0	891.5	891.1	890.7	890.2	889.4
150°	913.8	914.3	915.0	915.6	916.2	916.2	915.6	915.0	914.3	913.8	912.9
152.5°	937.3	938.1	938.9	939.6	940.4	940.4	939.6	938.9	938.1	937.3	936.4
155°	968.9	969.6	970.2	970.8	971.4	971.2	970.2	969.2	968.1	967.1	966.5
157.5°	996.2	997.2	998.1	999.1	1000.1	999.9	998.5	997.1	995.8	994.3	994.0
160°	1013.1	1013.9	1014.8	1015.6	1016.4	1016.2	1014.9	1013.8	1012.5	1011.3	1011.1
162.5°	1027.9	1028.8	1029.8	1030.8	1031.7	1031.6	1030.2	1028.8	1027.4	1026.0	1025.8
165°	1047.2	1048.2	1049.2	1050.3	1051.2	1051.1	1049.6	1048.2	1046.8	1045.4	1045.4
167.5°	1063.0	1064.1	1065.1	1066.2	1067.2	1067.1	1065.6	1064.2	1062.8	1061.4	1061.4
170°	1071.1	1072.3	1073.6	1074.8	1076.0	1075.9	1074.4	1073.0	1071.6	1070.2	1070.4
172.5°	1077.7	1079.0	1080.1	1081.4	1082.6	1082.5	1081.1	1079.7	1078.2	1076.8	1077.0
175°	1084.9	1086.2	1087.3	1088.6	1089.8	1089.7	1088.3	1086.9	1085.4	1083.9	1084.4
177.5°	1088.2	1089.2	1090.2	1091.2	1092.1	1092.1	1091.2	1090.2	1089.2	1088.2	1088.5
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	530.3	529.1	528.1	525.5	524.2	521.3	520.9	520.8	517.1	513.4	512.4
5°	548.5	545.6	541.3	536.2	531.0	525.6	522.0	519.1	511.9	505.1	501.1
7.5°	566.8	560.6	553.2	543.7	535.7	526.8	520.1	514.2	504.0	494.2	487.6
10°	580.5	570.5	560.5	547.4	537.1	527.0	517.7	509.6	498.1	485.1	475.9
12.5°	589.0	577.9	564.3	551.4	538.1	525.3	512.8	502.4	488.9	475.5	464.6
15°	600.5	588.6	572.0	553.7	536.6	519.8	505.5	492.5	474.9	458.8	445.5
17.5°	609.9	593.5	575.8	554.5	534.7	513.5	495.0	478.4	458.8	439.4	423.7
20°	612.9	596.7	576.2	554.9	531.6	506.5	486.6	468.6	447.5	426.4	408.4
22.5°	611.0	598.4	575.6	550.2	526.2	500.1	477.5	456.6	433.2	411.8	390.9
25°	598.3	594.0	572.4	544.7	517.4	487.0	460.8	438.0	411.4	388.3	365.7
27.5°	568.7	578.1	564.7	535.1	504.7	472.1	442.8	416.8	389.1	363.2	340.6
30°	540.2	561.6	555.9	528.5	494.5	462.5	429.5	402.3	372.9	346.2	323.9
32.5°	501.2	536.5	542.2	519.3	484.1	448.9	414.4	387.4	356.6	328.5	306.7
35°	439.0	491.9	516.3	501.7	466.4	428.4	392.8	361.3	330.3	302.7	281.1
37.5°	365.0	437.0	477.5	478.6	446.2	406.7	367.9	336.6	304.9	277.7	254.4
40°	316.9	395.0	447.7	459.4	432.1	389.4	350.1	318.3	287.4	260.7	233.9
42.5°	273.7	351.5	416.3	436.7	414.9	372.6	333.2	299.9	269.8	244.6	217.2
45°	221.3	289.4	360.8	397.1	385.1	345.9	304.3	272.6	244.4	222.6	196.3
47.5°	186.7	234.6	303.8	352.9	352.8	317.0	276.0	245.7	219.5	199.1	177.8
50°	167.0	208.7	267.2	323.0	327.6	297.6	258.7	228.7	204.2	182.8	165.7
52.5°	149.2	183.7	236.2	289.8	303.1	277.0	239.3	211.6	187.8	168.1	153.5
55°	126.1	152.8	192.7	242.7	262.9	244.5	211.0	185.1	165.9	149.3	136.7
57.5°	106.7	126.7	158.8	199.0	222.4	211.0	183.3	162.2	145.8	130.8	120.9
60°	94.5	110.8	138.0	171.7	197.6	189.5	165.9	146.3	132.3	119.3	110.0
62.5°	82.9	97.0	120.3	147.7	171.3	168.0	148.8	132.3	120.0	108.2	100.3
65°	66.8	77.0	95.2	116.6	135.7	137.3	123.4	112.3	101.3	92.0	84.9
67.5°	53.2	59.9	72.6	90.7	105.0	110.1	101.6	93.1	84.4	77.2	71.1
70°	44.8	50.2	59.6	74.1	87.3	92.7	87.8	81.1	73.6	67.7	62.4
72.5°	36.3	41.6	48.5	59.2	70.4	76.3	74.5	69.8	63.7	58.7	53.8
75°	27.3	29.0	33.7	40.9	49.7	54.7	55.9	53.5	48.6	44.8	41.9
77.5°	20.2	21.2	23.4	27.2	33.0	37.5	39.3	39.0	35.6	33.5	30.7
80°	16.2	16.7	17.8	19.4	23.8	28.3	29.5	29.5	27.2	26.3	23.6
82.5°	12.3	12.7	13.4	14.3	16.2	20.2	21.6	21.9	20.4	19.3	17.1
85°	7.1	6.8	7.2	7.8	8.1	9.2	11.3	11.7	11.3	9.9	9.3
87.5°	7.1	6.3	5.5	4.6	4.3	3.9	4.1	4.4	4.3	4.4	4.5
90°	23.2	18.7	14.2	10.8	8.3	5.9	3.4	1.0	3.4	5.9	8.3
92.5°	27.2	26.1	25.0	23.6	21.8	20.0	18.1	16.4	18.1	20.0	21.8
95°	58.1	57.7	57.3	56.0	53.9	52.0	49.9	47.8	49.9	52.0	53.9
97.5°	97.4	96.6	95.9	94.6	92.8	91.0	89.2	87.5	89.2	91.0	92.8
100°	125.7	125.2	124.5	123.4	121.8	120.2	118.5	116.8	118.5	120.2	121.8
102.5°	155.6	154.9	154.1	153.0	151.7	150.4	149.1	147.8	149.1	150.4	151.7
105°	201.6	201.2	200.8	200.3	199.7	199.1	198.4	197.8	198.4	199.1	199.7
107.5°	252.3	252.3	252.3	251.8	251.0	250.1	249.1	248.3	249.1	250.1	251.0
110°	286.2	286.2	286.2	285.6	284.3	283.1	281.9	280.7	281.9	283.1	284.3



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	321.1	321.2	321.5	320.9	319.6	318.5	317.2	316.0	317.2	318.5	319.6
115°	372.6	373.0	373.4	373.0	371.8	370.5	369.3	368.0	369.3	370.5	371.8
117.5°	424.5	425.6	426.7	426.5	424.8	423.3	421.6	419.9	421.6	423.3	424.8
120°	457.9	459.5	461.1	461.1	459.5	457.9	456.2	454.6	456.2	457.9	459.5
122.5°	492.2	493.4	494.5	494.1	492.1	490.1	488.2	486.2	488.2	490.1	492.1
125°	542.3	542.9	543.5	542.9	541.1	539.2	537.4	535.5	537.4	539.2	541.1
127.5°	592.2	592.9	593.7	592.9	590.6	588.3	585.9	583.6	585.9	588.3	590.6
130°	624.7	625.1	625.5	624.4	621.7	619.1	616.4	613.8	616.4	619.1	621.7
132.5°	657.6	657.5	657.4	656.3	654.1	652.0	649.8	647.6	649.8	652.0	654.1
135°	704.0	703.6	703.2	701.9	699.7	697.4	695.1	692.9	695.1	697.4	699.7
137.5°	750.2	749.6	749.1	747.9	746.1	744.3	742.4	740.5	742.4	744.3	746.1
140°	780.1	779.1	778.1	776.7	774.8	772.9	771.1	769.3	771.1	772.9	774.8
142.5°	808.7	808.0	807.3	806.0	804.2	802.4	800.6	798.8	800.6	802.4	804.2
145°	850.6	849.3	848.1	846.8	845.3	843.9	842.5	841.1	842.5	843.9	845.3
147.5°	888.6	887.7	886.9	885.7	883.9	882.2	880.5	878.8	880.5	882.2	883.9
150°	912.1	911.3	910.5	909.4	908.2	907.0	905.8	904.5	905.8	907.0	908.2
152.5°	935.3	934.4	933.3	932.2	931.1	929.8	928.6	927.3	928.6	929.8	931.1
155°	965.9	965.3	964.6	964.1	963.5	962.8	962.2	961.6	962.2	962.8	963.5
157.5°	993.6	993.2	992.8	992.5	992.0	991.7	991.3	990.9	991.3	991.7	992.0
160°	1010.9	1010.7	1010.4	1010.2	1009.7	1009.3	1008.9	1008.5	1008.9	1009.3	1009.7
162.5°	1025.6	1025.4	1025.2	1025.1	1024.9	1024.8	1024.8	1024.7	1024.8	1024.8	1024.9
165°	1045.4	1045.4	1045.4	1045.4	1045.6	1045.8	1046.1	1046.2	1046.1	1045.8	1045.6
167.5°	1061.4	1061.4	1061.5	1061.8	1062.5	1063.0	1063.7	1064.3	1063.7	1063.0	1062.5
170°	1070.6	1070.8	1071.0	1071.4	1072.0	1072.6	1073.2	1073.9	1073.2	1072.6	1072.0
172.5°	1077.2	1077.4	1077.6	1078.0	1078.6	1079.3	1079.9	1080.5	1079.9	1079.3	1078.6
175°	1084.8	1085.2	1085.6	1086.2	1086.7	1087.3	1088.0	1088.6	1088.0	1087.3	1086.7
177.5°	1088.9	1089.2	1089.5	1090.0	1090.4	1090.9	1091.4	1091.9	1091.4	1090.9	1090.4
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	510.6	509.5	507.6	504.8	503.0	500.0	498.0	499.2	499.5	499.2	498.9
5°	496.9	493.1	487.8	482.8	478.1	473.1	470.2	469.0	466.4	465.0	464.2
7.5°	480.2	473.7	466.4	457.6	450.1	442.3	438.3	436.3	431.2	428.4	426.0
10°	467.9	457.6	450.2	438.7	431.7	421.4	414.4	414.6	407.6	403.6	400.8
12.5°	454.2	442.9	430.6	420.3	410.5	402.3	393.8	390.4	382.9	379.1	371.4
15°	431.5	418.4	405.4	391.4	381.5	368.7	356.5	341.5	329.5	319.0	316.2
17.5°	406.8	390.5	377.5	361.0	344.0	322.6	308.4	299.7	292.5	286.9	282.8
20°	389.8	373.2	359.3	334.5	311.6	297.1	286.7	280.0	272.4	266.5	263.2
22.5°	371.9	354.7	335.7	308.0	290.2	278.5	269.3	261.6	256.4	251.8	248.8
25°	346.6	327.6	296.5	277.5	263.1	250.8	244.4	239.7	234.3	228.0	225.1
27.5°	319.8	289.8	267.4	253.2	239.5	231.6	225.7	218.7	213.9	211.0	208.0
30°	299.8	269.7	252.3	236.8	227.1	218.2	211.4	207.5	202.8	198.0	196.0
32.5°	277.5	253.5	236.7	223.9	214.0	206.4	201.1	194.6	191.3	188.3	184.2
35°	249.8	231.6	216.3	205.9	196.5	190.4	184.1	180.3	174.2	171.7	170.1
37.5°	226.3	210.6	199.2	188.1	180.7	174.0	170.1	164.1	161.4	157.9	154.5
40°	213.0	197.6	186.6	177.6	169.3	164.3	159.5	154.6	150.6	149.0	144.9
42.5°	199.6	187.0	175.9	166.1	160.6	155.2	149.1	145.5	141.4	138.8	136.3
45°	180.9	169.7	160.3	152.3	146.1	140.5	136.6	130.6	128.3	123.1	120.9
47.5°	164.5	154.1	145.1	137.4	131.5	127.9	122.1	117.4	113.7	110.4	107.7
50°	152.8	144.1	135.5	128.7	123.3	118.0	112.1	109.8	104.0	102.3	100.8
52.5°	142.1	133.9	126.0	119.3	113.9	108.8	103.6	100.5	96.6	95.1	93.9
55°	127.2	119.3	111.8	105.8	100.4	95.2	92.0	88.2	86.3	85.1	83.7
57.5°	112.3	105.1	99.3	93.3	87.9	83.7	80.0	77.7	75.9	74.2	72.5
60°	102.7	95.9	90.7	85.1	79.5	76.1	73.3	70.5	68.4	65.8	65.1
62.5°	92.7	86.7	81.9	76.4	71.6	68.5	65.8	63.2	60.6	57.0	55.9
65°	78.8	74.1	69.1	64.6	60.3	57.2	53.2	50.4	49.3	49.0	48.8
67.5°	66.3	61.9	57.5	52.9	49.0	46.2	44.1	43.7	42.9	42.8	42.2
70°	57.9	53.8	49.5	45.2	41.4	40.9	40.2	39.4	38.5	38.2	37.8
72.5°	50.5	46.2	41.8	38.4	36.8	36.1	35.4	34.6	34.1	33.7	33.5
75°	38.7	34.7	31.8	30.6	29.7	29.2	28.0	27.6	27.2	26.6	26.5
77.5°	27.9	25.6	24.3	23.5	22.6	22.0	21.4	20.8	20.4	20.4	20.0
80°	21.2	20.1	19.3	18.1	17.8	17.1	17.0	16.4	16.6	16.0	16.0
82.5°	16.5	15.1	14.3	13.9	13.5	12.9	12.8	12.5	12.5	12.1	12.1
85°	8.5	8.1	7.8	7.4	7.4	6.8	7.1	6.8	6.8	6.5	6.3
87.5°	4.9	5.5	6.0	7.0	7.8	8.6	8.6	8.3	8.2	8.2	8.0
90°	10.8	14.2	18.7	23.2	27.7	32.2	31.8	31.4	31.0	30.6	30.5
92.5°	23.6	25.0	26.1	27.2	28.2	29.2	29.3	29.4	29.5	29.6	29.6
95°	56.0	57.3	57.7	58.1	58.5	58.9	58.9	58.9	58.9	58.9	58.7
97.5°	94.6	95.9	96.6	97.4	98.2	99.0	99.0	99.0	99.0	99.0	99.0
100°	123.4	124.5	125.2	125.7	126.4	127.0	127.0	127.0	127.0	127.0	126.9
102.5°	153.0	154.1	154.9	155.6	156.4	157.2	157.3	157.5	157.6	157.8	157.8
105°	200.3	200.8	201.2	201.6	202.0	202.4	202.9	203.3	203.7	204.1	204.3
107.5°	251.8	252.3	252.3	252.3	252.3	252.3	252.5	252.6	252.8	252.9	252.5
110°	285.6	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	285.9



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	320.9	321.5	321.2	321.1	320.9	320.8	320.3	319.8	319.3	318.9	318.4
115°	373.0	373.4	373.0	372.6	372.2	371.8	371.5	371.4	371.1	370.9	370.5
117.5°	426.5	426.7	425.6	424.5	423.3	422.2	421.7	421.2	420.7	420.3	419.7
120°	461.1	461.1	459.5	457.9	456.2	454.6	454.6	454.6	454.6	454.6	454.2
122.5°	494.1	494.5	493.4	492.2	491.1	489.9	489.4	488.9	488.5	487.9	487.5
125°	542.9	543.5	542.9	542.3	541.7	541.1	540.4	539.9	539.2	538.6	538.2
127.5°	592.9	593.7	592.9	592.2	591.5	590.7	590.0	589.3	588.5	587.8	587.1
130°	624.4	625.5	625.1	624.7	624.3	623.9	623.4	623.1	622.7	622.3	621.6
132.5°	656.3	657.4	657.5	657.6	657.7	657.7	656.9	655.9	655.1	654.2	653.4
135°	701.9	703.2	703.6	704.0	704.5	704.9	704.6	704.5	704.3	704.0	703.6
137.5°	747.9	749.1	749.6	750.2	750.7	751.2	751.1	750.9	750.8	750.6	750.1
140°	776.7	778.1	779.1	780.1	781.2	782.1	782.1	782.1	782.1	782.1	781.7
142.5°	806.0	807.3	808.0	808.7	809.5	810.2	810.3	810.5	810.6	810.8	810.5
145°	846.8	848.1	849.3	850.6	851.8	853.0	853.2	853.4	853.7	853.8	853.5
147.5°	885.7	886.9	887.7	888.6	889.4	890.2	890.7	891.1	891.5	892.0	891.8
150°	909.4	910.5	911.3	912.1	912.9	913.8	914.3	915.0	915.6	916.2	916.2
152.5°	932.2	933.3	934.4	935.3	936.4	937.3	938.1	938.9	939.6	940.4	940.4
155°	964.1	964.6	965.3	965.9	966.5	967.1	968.1	969.2	970.2	971.2	971.4
157.5°	992.5	992.8	993.2	993.6	994.0	994.3	995.8	997.1	998.5	999.9	1000.1
160°	1010.2	1010.4	1010.7	1010.9	1011.1	1011.3	1012.5	1013.8	1014.9	1016.2	1016.4
162.5°	1025.1	1025.2	1025.4	1025.6	1025.8	1026.0	1027.4	1028.8	1030.2	1031.6	1031.7
165°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1046.8	1048.2	1049.6	1051.1	1051.2
167.5°	1061.8	1061.5	1061.4	1061.4	1061.4	1061.4	1062.8	1064.2	1065.6	1067.1	1067.2
170°	1071.4	1071.0	1070.8	1070.6	1070.4	1070.2	1071.6	1073.0	1074.4	1075.9	1076.0
172.5°	1078.0	1077.6	1077.4	1077.2	1077.0	1076.8	1078.2	1079.7	1081.1	1082.5	1082.6
175°	1086.2	1085.6	1085.2	1084.8	1084.4	1083.9	1085.4	1086.9	1088.3	1089.7	1089.8
177.5°	1090.0	1089.5	1089.2	1088.9	1088.5	1088.2	1089.2	1090.2	1091.2	1092.1	1092.1
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	497.3	497.6	497.2	497.4	497.2	497.6	497.3	498.9	499.2	499.5	499.2
5°	463.3	461.2	460.8	460.3	460.8	461.2	463.3	464.2	465.0	466.4	469.0
7.5°	422.9	422.6	421.6	420.3	421.6	422.6	422.9	426.0	428.4	431.2	436.3
10°	396.8	395.9	395.7	394.4	395.7	395.9	396.8	400.8	403.6	407.6	414.6
12.5°	366.2	360.4	359.9	356.7	359.9	360.4	366.2	371.4	379.1	382.9	390.4
15°	311.9	310.8	307.1	304.8	307.1	310.8	311.9	316.2	319.0	329.5	341.5
17.5°	280.7	277.2	276.1	275.6	276.1	277.2	280.7	282.8	286.9	292.5	299.7
20°	260.7	257.5	257.0	256.6	257.0	257.5	260.7	263.2	266.5	272.4	280.0
22.5°	246.9	243.5	242.2	241.1	242.2	243.5	246.9	248.8	251.8	256.4	261.6
25°	223.3	222.0	221.3	220.9	221.3	222.0	223.3	225.1	228.0	234.3	239.7
27.5°	204.9	202.1	201.5	200.6	201.5	202.1	204.9	208.0	211.0	213.9	218.7
30°	194.3	193.5	192.2	191.1	192.2	193.5	194.3	196.0	198.0	202.8	207.5
32.5°	182.0	181.2	180.1	179.6	180.1	181.2	182.0	184.2	188.3	191.3	194.6
35°	168.3	165.7	164.6	163.0	164.6	165.7	168.3	170.1	171.7	174.2	180.3
37.5°	153.8	152.4	150.9	151.5	150.9	152.4	153.8	154.5	157.9	161.4	164.1
40°	142.5	141.6	141.2	141.1	141.2	141.6	142.5	144.9	149.0	150.6	154.6
42.5°	133.6	131.1	130.2	130.2	130.2	131.1	133.6	136.3	138.8	141.4	145.5
45°	120.0	117.7	116.1	116.2	116.1	117.7	120.0	120.9	123.1	128.3	130.6
47.5°	106.2	106.1	105.0	105.4	105.0	106.1	106.2	107.7	110.4	113.7	117.4
50°	99.5	98.5	97.7	97.9	97.7	98.5	99.5	100.8	102.3	104.0	109.8
52.5°	93.2	92.2	91.7	92.4	91.7	92.2	93.2	93.9	95.1	96.6	100.5
55°	82.8	81.7	81.5	81.4	81.5	81.7	82.8	83.7	85.1	86.3	88.2
57.5°	71.1	70.4	69.3	68.9	69.3	70.4	71.1	72.5	74.2	75.9	77.7
60°	62.8	61.4	59.6	59.4	59.6	61.4	62.8	65.1	65.8	68.4	70.5
62.5°	55.1	54.9	54.5	54.5	54.5	54.9	55.1	55.9	57.0	60.6	63.2
65°	48.4	48.2	48.4	48.6	48.4	48.2	48.4	48.8	49.0	49.3	50.4
67.5°	42.1	41.8	41.5	41.7	41.5	41.8	42.1	42.2	42.8	42.9	43.7
70°	37.4	37.2	37.1	37.1	37.1	37.2	37.4	37.8	38.2	38.5	39.4
72.5°	32.8	32.8	32.6	32.5	32.6	32.8	32.8	33.5	33.7	34.1	34.6
75°	26.3	25.9	25.9	25.9	25.9	25.9	26.3	26.5	26.6	27.2	27.6
77.5°	20.0	19.8	19.6	19.5	19.6	19.8	20.0	20.0	20.4	20.4	20.8
80°	15.8	15.7	15.4	15.4	15.4	15.7	15.8	16.0	16.0	16.6	16.4
82.5°	12.1	11.9	11.9	11.7	11.9	11.9	12.1	12.1	12.1	12.5	12.5
85°	6.5	6.7	6.5	6.8	6.5	6.7	6.5	6.3	6.5	6.8	6.8
87.5°	8.0	7.9	8.1	8.0	8.1	7.9	8.0	8.0	8.2	8.2	8.3
90°	30.7	30.9	31.1	31.3	31.1	30.9	30.7	30.5	30.6	31.0	31.4
92.5°	29.7	29.7	29.8	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.4
95°	58.3	57.9	57.4	57.0	57.4	57.9	58.3	58.7	58.9	58.9	58.9
97.5°	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
100°	126.7	126.5	126.3	126.0	126.3	126.5	126.7	126.9	127.0	127.0	127.0
102.5°	157.6	157.4	157.2	157.0	157.2	157.4	157.6	157.8	157.8	157.6	157.5
105°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.1	203.7	203.3
107.5°	251.7	250.7	249.8	248.8	249.8	250.7	251.7	252.5	252.9	252.8	252.6
110°	285.3	284.6	284.0	283.4	284.0	284.6	285.3	285.9	286.2	286.2	286.2



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	317.9	317.4	317.0	316.6	317.0	317.4	317.9	318.4	318.9	319.3	319.8
115°	369.9	369.3	368.7	368.0	368.7	369.3	369.9	370.5	370.9	371.1	371.4
117.5°	419.1	418.4	417.8	417.2	417.8	418.4	419.1	419.7	420.3	420.7	421.2
120°	453.7	453.0	452.4	451.8	452.4	453.0	453.7	454.2	454.6	454.6	454.6
122.5°	487.0	486.6	486.2	485.7	486.2	486.6	487.0	487.5	487.9	488.5	488.9
125°	538.0	537.8	537.6	537.4	537.6	537.8	538.0	538.2	538.6	539.2	539.9
127.5°	586.5	585.8	585.2	584.5	585.2	585.8	586.5	587.1	587.8	588.5	589.3
130°	620.8	620.0	619.2	618.4	619.2	620.0	620.8	621.6	622.3	622.7	623.1
132.5°	652.8	652.0	651.4	650.8	651.4	652.0	652.8	653.4	654.2	655.1	655.9
135°	703.0	702.4	701.8	701.2	701.8	702.4	703.0	703.6	704.0	704.3	704.5
137.5°	749.2	748.5	747.7	746.8	747.7	748.5	749.2	750.1	750.6	750.8	750.9
140°	780.9	780.1	779.3	778.5	779.3	780.1	780.9	781.7	782.1	782.1	782.1
142.5°	809.6	808.8	808.0	807.2	808.0	808.8	809.6	810.5	810.8	810.6	810.5
145°	852.7	851.9	851.0	850.2	851.0	851.9	852.7	853.5	853.8	853.7	853.4
147.5°	891.0	890.3	889.5	888.7	889.5	890.3	891.0	891.8	892.0	891.5	891.1
150°	915.6	915.0	914.3	913.8	914.3	915.0	915.6	916.2	916.2	915.6	915.0
152.5°	939.6	938.9	938.1	937.3	938.1	938.9	939.6	940.4	940.4	939.6	938.9
155°	970.8	970.2	969.6	968.9	969.6	970.2	970.8	971.4	971.2	970.2	969.2
157.5°	999.1	998.1	997.2	996.2	997.2	998.1	999.1	1000.1	999.9	998.5	997.1
160°	1015.6	1014.8	1013.9	1013.1	1013.9	1014.8	1015.6	1016.4	1016.2	1014.9	1013.8
162.5°	1030.8	1029.8	1028.8	1027.9	1028.8	1029.8	1030.8	1031.7	1031.6	1030.2	1028.8
165°	1050.3	1049.2	1048.2	1047.2	1048.2	1049.2	1050.3	1051.2	1051.1	1049.6	1048.2
167.5°	1066.2	1065.1	1064.1	1063.0	1064.1	1065.1	1066.2	1067.2	1067.1	1065.6	1064.2
170°	1074.8	1073.6	1072.3	1071.1	1072.3	1073.6	1074.8	1076.0	1075.9	1074.4	1073.0
172.5°	1081.4	1080.1	1079.0	1077.7	1079.0	1080.1	1081.4	1082.6	1082.5	1081.1	1079.7
175°	1088.6	1087.3	1086.2	1084.9	1086.2	1087.3	1088.6	1089.8	1089.7	1088.3	1086.9
177.5°	1091.2	1090.2	1089.2	1088.2	1089.2	1090.2	1091.2	1092.1	1092.1	1091.2	1090.2
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	498.0	500.0	503.0	504.8	507.6	509.5	510.6	512.4	513.4	517.1	520.8
5°	470.2	473.1	478.1	482.8	487.8	493.1	496.9	501.1	505.1	511.9	519.1
7.5°	438.3	442.3	450.1	457.6	466.4	473.7	480.2	487.6	494.2	504.0	514.2
10°	414.4	421.4	431.7	438.7	450.2	457.6	467.9	475.9	485.1	498.1	509.6
12.5°	393.8	402.3	410.5	420.3	430.6	442.9	454.2	464.6	475.5	488.9	502.4
15°	356.5	368.7	381.5	391.4	405.4	418.4	431.5	445.5	458.8	474.9	492.5
17.5°	308.4	322.6	344.0	361.0	377.5	390.5	406.8	423.7	439.4	458.8	478.4
20°	286.7	297.1	311.6	334.5	359.3	373.2	389.8	408.4	426.4	447.5	468.6
22.5°	269.3	278.5	290.2	308.0	335.7	354.7	371.9	390.9	411.8	433.2	456.6
25°	244.4	250.8	263.1	277.5	296.5	327.6	346.6	365.7	388.3	411.4	438.0
27.5°	225.7	231.6	239.5	253.2	267.4	289.8	319.8	340.6	363.2	389.1	416.8
30°	211.4	218.2	227.1	236.8	252.3	269.7	299.8	323.9	346.2	372.9	402.3
32.5°	201.1	206.4	214.0	223.9	236.7	253.5	277.5	306.7	328.5	356.6	387.4
35°	184.1	190.4	196.5	205.9	216.3	231.6	249.8	281.1	302.7	330.3	361.3
37.5°	170.1	174.0	180.7	188.1	199.2	210.6	226.3	254.4	277.7	304.9	336.6
40°	159.5	164.3	169.3	177.6	186.6	197.6	213.0	233.9	260.7	287.4	318.3
42.5°	149.1	155.2	160.6	166.1	175.9	187.0	199.6	217.2	244.6	269.8	299.9
45°	136.6	140.5	146.1	152.3	160.3	169.7	180.9	196.3	222.6	244.4	272.6
47.5°	122.1	127.9	131.5	137.4	145.1	154.1	164.5	177.8	199.1	219.5	245.7
50°	112.1	118.0	123.3	128.7	135.5	144.1	152.8	165.7	182.8	204.2	228.7
52.5°	103.6	108.8	113.9	119.3	126.0	133.9	142.1	153.5	168.1	187.8	211.6
55°	92.0	95.2	100.4	105.8	111.8	119.3	127.2	136.7	149.3	165.9	185.1
57.5°	80.0	83.7	87.9	93.3	99.3	105.1	112.3	120.9	130.8	145.8	162.2
60°	73.3	76.1	79.5	85.1	90.7	95.9	102.7	110.0	119.3	132.3	146.3
62.5°	65.8	68.5	71.6	76.4	81.9	86.7	92.7	100.3	108.2	120.0	132.3
65°	53.2	57.2	60.3	64.6	69.1	74.1	78.8	84.9	92.0	101.3	112.3
67.5°	44.1	46.2	49.0	52.9	57.5	61.9	66.3	71.1	77.2	84.4	93.1
70°	40.2	40.9	41.4	45.2	49.5	53.8	57.9	62.4	67.7	73.6	81.1
72.5°	35.4	36.1	36.8	38.4	41.8	46.2	50.5	53.8	58.7	63.7	69.8
75°	28.0	29.2	29.7	30.6	31.8	34.7	38.7	41.9	44.8	48.6	53.5
77.5°	21.4	22.0	22.6	23.5	24.3	25.6	27.9	30.7	33.5	35.6	39.0
80°	17.0	17.1	17.8	18.1	19.3	20.1	21.2	23.6	26.3	27.2	29.5
82.5°	12.8	12.9	13.5	13.9	14.3	15.1	16.5	17.1	19.3	20.4	21.9
85°	7.1	6.8	7.4	7.4	7.8	8.1	8.5	9.3	9.9	11.3	11.7
87.5°	8.6	8.6	7.8	7.0	6.0	5.5	4.9	4.5	4.4	4.3	4.4
90°	31.8	32.2	27.7	23.2	18.7	14.2	10.8	8.3	5.9	3.4	1.0
92.5°	29.3	29.2	28.2	27.2	26.1	25.0	23.6	21.8	20.0	18.1	16.4
95°	58.9	58.9	58.5	58.1	57.7	57.3	56.0	53.9	52.0	49.9	47.8
97.5°	99.0	99.0	98.2	97.4	96.6	95.9	94.6	92.8	91.0	89.2	87.5
100°	127.0	127.0	126.4	125.7	125.2	124.5	123.4	121.8	120.2	118.5	116.8
102.5°	157.3	157.2	156.4	155.6	154.9	154.1	153.0	151.7	150.4	149.1	147.8
105°	202.9	202.4	202.0	201.6	201.2	200.8	200.3	199.7	199.1	198.4	197.8
107.5°	252.5	252.3	252.3	252.3	252.3	252.3	251.8	251.0	250.1	249.1	248.3
110°	286.2	286.2	286.2	286.2	286.2	286.2	285.6	284.3	283.1	281.9	280.7



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	320.3	320.8	320.9	321.1	321.2	321.5	320.9	319.6	318.5	317.2	316.0
115°	371.5	371.8	372.2	372.6	373.0	373.4	373.0	371.8	370.5	369.3	368.0
117.5°	421.7	422.2	423.3	424.5	425.6	426.7	426.5	424.8	423.3	421.6	419.9
120°	454.6	454.6	456.2	457.9	459.5	461.1	461.1	459.5	457.9	456.2	454.6
122.5°	489.4	489.9	491.1	492.2	493.4	494.5	494.1	492.1	490.1	488.2	486.2
125°	540.4	541.1	541.7	542.3	542.9	543.5	542.9	541.1	539.2	537.4	535.5
127.5°	590.0	590.7	591.5	592.2	592.9	593.7	592.9	590.6	588.3	585.9	583.6
130°	623.4	623.9	624.3	624.7	625.1	625.5	624.4	621.7	619.1	616.4	613.8
132.5°	656.9	657.7	657.7	657.6	657.5	657.4	656.3	654.1	652.0	649.8	647.6
135°	704.6	704.9	704.5	704.0	703.6	703.2	701.9	699.7	697.4	695.1	692.9
137.5°	751.1	751.2	750.7	750.2	749.6	749.1	747.9	746.1	744.3	742.4	740.5
140°	782.1	782.1	781.2	780.1	779.1	778.1	776.7	774.8	772.9	771.1	769.3
142.5°	810.3	810.2	809.5	808.7	808.0	807.3	806.0	804.2	802.4	800.6	798.8
145°	853.2	853.0	851.8	850.6	849.3	848.1	846.8	845.3	843.9	842.5	841.1
147.5°	890.7	890.2	889.4	888.6	887.7	886.9	885.7	883.9	882.2	880.5	878.8
150°	914.3	913.8	912.9	912.1	911.3	910.5	909.4	908.2	907.0	905.8	904.5
152.5°	938.1	937.3	936.4	935.3	934.4	933.3	932.2	931.1	929.8	928.6	927.3
155°	968.1	967.1	966.5	965.9	965.3	964.6	964.1	963.5	962.8	962.2	961.6
157.5°	995.8	994.3	994.0	993.6	993.2	992.8	992.5	992.0	991.7	991.3	990.9
160°	1012.5	1011.3	1011.1	1010.9	1010.7	1010.4	1010.2	1009.7	1009.3	1008.9	1008.5
162.5°	1027.4	1026.0	1025.8	1025.6	1025.4	1025.2	1025.1	1024.9	1024.8	1024.8	1024.7
165°	1046.8	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.6	1045.8	1046.1	1046.2
167.5°	1062.8	1061.4	1061.4	1061.4	1061.4	1061.5	1061.8	1062.5	1063.0	1063.7	1064.3
170°	1071.6	1070.2	1070.4	1070.6	1070.8	1071.0	1071.4	1072.0	1072.6	1073.2	1073.9
172.5°	1078.2	1076.8	1077.0	1077.2	1077.4	1077.6	1078.0	1078.6	1079.3	1079.9	1080.5
175°	1085.4	1083.9	1084.4	1084.8	1085.2	1085.6	1086.2	1086.7	1087.3	1088.0	1088.6
177.5°	1089.2	1088.2	1088.5	1088.9	1089.2	1089.5	1090.0	1090.4	1090.9	1091.4	1091.9
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	520.9	521.3	524.2	525.5	528.1	529.1	530.3	530.0	530.0	530.5	534.6
5°	522.0	525.6	531.0	536.2	541.3	545.6	548.5	551.4	552.5	557.6	562.3
7.5°	520.1	526.8	535.7	543.7	553.2	560.6	566.8	572.4	576.2	583.8	591.6
10°	517.7	527.0	537.1	547.4	560.5	570.5	580.5	588.3	590.7	602.1	608.6
12.5°	512.8	525.3	538.1	551.4	564.3	577.9	589.0	596.8	605.6	615.8	627.7
15°	505.5	519.8	536.6	553.7	572.0	588.6	600.5	613.9	623.7	634.9	645.3
17.5°	495.0	513.5	534.7	554.5	575.8	593.5	609.9	622.8	629.6	636.0	637.5
20°	486.6	506.5	531.6	554.9	576.2	596.7	612.9	623.7	625.5	625.7	616.2
22.5°	477.5	500.1	526.2	550.2	575.6	598.4	611.0	615.6	608.5	596.3	577.8
25°	460.8	487.0	517.4	544.7	572.4	594.0	598.3	590.3	565.2	538.9	505.6
27.5°	442.8	472.1	504.7	535.1	564.7	578.1	568.7	539.5	494.5	455.3	407.8
30°	429.5	462.5	494.5	528.5	555.9	561.6	540.2	497.2	444.7	385.6	338.3
32.5°	414.4	448.9	484.1	519.3	542.2	536.5	501.2	448.2	386.7	328.6	283.9
35°	392.8	428.4	466.4	501.7	516.3	491.9	439.0	370.1	307.1	253.0	222.2
37.5°	367.9	406.7	446.2	478.6	477.5	437.0	365.0	293.8	240.9	208.8	187.0
40°	350.1	389.4	432.1	459.4	447.7	395.0	316.9	249.8	211.0	185.5	169.5
42.5°	333.2	372.6	414.9	436.7	416.3	351.5	273.7	221.1	189.2	169.3	156.3
45°	304.3	345.9	385.1	397.1	360.8	289.4	221.3	183.2	161.9	147.2	138.2
47.5°	276.0	317.0	352.8	352.9	303.8	234.6	186.7	158.5	140.4	129.0	122.5
50°	258.7	297.6	327.6	323.0	267.2	208.7	167.0	142.7	127.6	118.7	111.9
52.5°	239.3	277.0	303.1	289.8	236.2	183.7	149.2	128.9	116.4	108.7	102.6
55°	211.0	244.5	262.9	242.7	192.7	152.8	126.1	110.1	100.8	94.3	89.0
57.5°	183.3	211.0	222.4	199.0	158.8	126.7	106.7	94.7	85.4	80.7	78.0
60°	165.9	189.5	197.6	171.7	138.0	110.8	94.5	83.3	76.4	73.4	70.7
62.5°	148.8	168.0	171.3	147.7	120.3	97.0	82.9	73.5	69.0	66.1	63.5
65°	123.4	137.3	135.7	116.6	95.2	77.0	66.8	61.0	57.6	53.5	49.0
67.5°	101.6	110.1	105.0	90.7	72.6	59.9	53.2	48.8	44.5	40.6	39.6
70°	87.8	92.7	87.3	74.1	59.6	50.2	44.8	39.6	37.1	36.2	34.5
72.5°	74.5	76.3	70.4	59.2	48.5	41.6	36.3	33.4	32.0	31.3	30.3
75°	55.9	54.7	49.7	40.9	33.7	29.0	27.3	26.3	25.3	24.6	24.1
77.5°	39.3	37.5	33.0	27.2	23.4	21.2	20.2	19.6	19.3	18.9	18.3
80°	29.5	28.3	23.8	19.4	17.8	16.7	16.2	15.4	15.4	15.1	14.6
82.5°	21.6	20.2	16.2	14.3	13.4	12.7	12.3	11.9	11.7	11.8	11.4
85°	11.3	9.2	8.1	7.8	7.2	6.8	7.1	6.7	6.7	6.7	6.5
87.5°	4.1	3.9	4.3	4.6	5.5	6.3	7.1	8.0	9.0	8.8	8.9
90°	3.4	5.9	8.3	10.8	14.2	18.7	23.2	27.7	32.2	31.8	31.4
92.5°	18.1	20.0	21.8	23.6	25.0	26.1	27.2	28.2	29.2	29.3	29.4
95°	49.9	52.0	53.9	56.0	57.3	57.7	58.1	58.5	58.9	58.9	58.9
97.5°	89.2	91.0	92.8	94.6	95.9	96.6	97.4	98.2	99.0	99.0	99.0
100°	118.5	120.2	121.8	123.4	124.5	125.2	125.7	126.4	127.0	127.0	127.0
102.5°	149.1	150.4	151.7	153.0	154.1	154.9	155.6	156.4	157.2	157.3	157.5
105°	198.4	199.1	199.7	200.3	200.8	201.2	201.6	202.0	202.4	202.9	203.3
107.5°	249.1	250.1	251.0	251.8	252.3	252.3	252.3	252.3	252.3	252.5	252.6
110°	281.9	283.1	284.3	285.6	286.2	286.2	286.2	286.2	286.2	286.2	286.2



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	317.2	318.5	319.6	320.9	321.5	321.2	321.1	320.9	320.8	320.3	319.8
115°	369.3	370.5	371.8	373.0	373.4	373.0	372.6	372.2	371.8	371.5	371.4
117.5°	421.6	423.3	424.8	426.5	426.7	425.6	424.5	423.3	422.2	421.7	421.2
120°	456.2	457.9	459.5	461.1	461.1	459.5	457.9	456.2	454.6	454.6	454.6
122.5°	488.2	490.1	492.1	494.1	494.5	493.4	492.2	491.1	489.9	489.4	488.9
125°	537.4	539.2	541.1	542.9	543.5	542.9	542.3	541.7	541.1	540.4	539.9
127.5°	585.9	588.3	590.6	592.9	593.7	592.9	592.2	591.5	590.7	590.0	589.3
130°	616.4	619.1	621.7	624.4	625.5	625.1	624.7	624.3	623.9	623.4	623.1
132.5°	649.8	652.0	654.1	656.3	657.4	657.5	657.6	657.7	657.7	656.9	655.9
135°	695.1	697.4	699.7	701.9	703.2	703.6	704.0	704.5	704.9	704.6	704.5
137.5°	742.4	744.3	746.1	747.9	749.1	749.6	750.2	750.7	751.2	751.1	750.9
140°	771.1	772.9	774.8	776.7	778.1	779.1	780.1	781.2	782.1	782.1	782.1
142.5°	800.6	802.4	804.2	806.0	807.3	808.0	808.7	809.5	810.2	810.3	810.5
145°	842.5	843.9	845.3	846.8	848.1	849.3	850.6	851.8	853.0	853.2	853.4
147.5°	880.5	882.2	883.9	885.7	886.9	887.7	888.6	889.4	890.2	890.7	891.1
150°	905.8	907.0	908.2	909.4	910.5	911.3	912.1	912.9	913.8	914.3	915.0
152.5°	928.6	929.8	931.1	932.2	933.3	934.4	935.3	936.4	937.3	938.1	938.9
155°	962.2	962.8	963.5	964.1	964.6	965.3	965.9	966.5	967.1	968.1	969.2
157.5°	991.3	991.7	992.0	992.5	992.8	993.2	993.6	994.0	994.3	995.8	997.1
160°	1008.9	1009.3	1009.7	1010.2	1010.4	1010.7	1010.9	1011.1	1011.3	1012.5	1013.8
162.5°	1024.8	1024.8	1024.9	1025.1	1025.2	1025.4	1025.6	1025.8	1026.0	1027.4	1028.8
165°	1046.1	1045.8	1045.6	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1046.8	1048.2
167.5°	1063.7	1063.0	1062.5	1061.8	1061.5	1061.4	1061.4	1061.4	1061.4	1062.8	1064.2
170°	1073.2	1072.6	1072.0	1071.4	1071.0	1070.8	1070.6	1070.4	1070.2	1071.6	1073.0
172.5°	1079.9	1079.3	1078.6	1078.0	1077.6	1077.4	1077.2	1077.0	1076.8	1078.2	1079.7
175°	1088.0	1087.3	1086.7	1086.2	1085.6	1085.2	1084.8	1084.4	1083.9	1085.4	1086.9
177.5°	1091.4	1090.9	1090.4	1090.0	1089.5	1089.2	1088.9	1088.5	1088.2	1089.2	1090.2
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	536.0	537.9	538.8	538.8	539.8	539.3	538.9
5°	566.8	570.2	571.0	574.2	576.6	575.8	576.2
7.5°	597.5	602.9	608.4	610.9	611.2	612.7	613.2
10°	616.3	620.8	629.2	628.0	634.3	637.9	632.0
12.5°	634.5	640.6	646.4	648.0	651.6	652.8	650.4
15°	650.9	654.1	654.4	653.6	654.7	653.7	650.3
17.5°	635.6	630.3	619.6	614.6	610.6	604.7	602.3
20°	610.2	594.7	576.7	569.5	561.1	544.5	548.5
22.5°	555.5	537.9	519.8	498.8	488.8	473.1	472.1
25°	470.4	440.0	406.5	383.1	369.4	353.8	346.9
27.5°	365.8	327.4	300.0	286.1	273.5	261.1	260.5
30°	296.9	268.2	246.9	235.0	227.3	222.0	223.2
32.5°	250.3	230.5	216.2	206.4	200.7	196.7	196.6
35°	204.6	191.1	181.9	177.8	173.6	170.8	171.0
37.5°	175.1	167.0	161.8	157.3	154.7	153.3	152.5
40°	159.9	153.3	149.3	146.6	144.5	142.5	142.1
42.5°	148.1	142.5	138.6	136.4	134.4	133.0	132.7
45°	131.3	126.8	123.3	120.9	120.0	118.7	118.7
47.5°	116.8	112.4	109.6	108.1	106.6	105.8	105.8
50°	107.1	103.6	101.2	100.2	98.9	98.5	98.2
52.5°	98.3	95.7	94.0	93.3	92.8	92.1	92.2
55°	86.3	84.9	84.2	83.7	82.8	81.7	82.4
57.5°	76.4	75.1	73.2	71.5	70.7	69.9	70.2
60°	69.3	66.8	64.2	62.3	61.7	60.1	60.1
62.5°	60.4	56.8	53.7	52.6	52.0	51.3	51.2
65°	46.4	45.0	44.3	43.6	43.2	43.2	42.9
67.5°	38.5	37.9	37.1	36.9	36.6	36.4	36.4
70°	34.0	33.3	33.0	32.7	32.4	32.6	32.0
72.5°	29.7	29.2	29.1	28.6	28.4	28.4	28.0
75°	23.4	23.4	23.2	23.1	22.7	22.5	22.7
77.5°	18.0	18.1	17.7	17.7	17.7	17.7	17.5
80°	14.4	14.6	14.4	14.2	14.0	14.2	14.0
82.5°	11.4	11.1	11.1	11.0	11.0	10.9	10.9
85°	6.5	6.7	6.5	6.3	6.3	6.3	6.5
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6
90°	31.0	30.6	30.5	30.7	30.9	31.1	31.3
92.5°	29.5	29.6	29.6	29.7	29.7	29.8	29.8
95°	58.9	58.9	58.7	58.3	57.9	57.4	57.0
97.5°	99.0	99.0	99.0	98.9	98.9	98.9	98.9
100°	127.0	127.0	126.9	126.7	126.5	126.3	126.0
102.5°	157.6	157.8	157.8	157.6	157.4	157.2	157.0
105°	203.7	204.1	204.3	204.3	204.3	204.3	204.3
107.5°	252.8	252.9	252.5	251.7	250.7	249.8	248.8
110°	286.2	286.2	285.9	285.3	284.6	284.0	283.4



TEST NUMBER: P331640-927

CATALOG NUMBER: SA2XXRDIP-C290D1080U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	319.3	318.9	318.4	317.9	317.4	317.0	316.6
115°	371.1	370.9	370.5	369.9	369.3	368.7	368.0
117.5°	420.7	420.3	419.7	419.1	418.4	417.8	417.2
120°	454.6	454.6	454.2	453.7	453.0	452.4	451.8
122.5°	488.5	487.9	487.5	487.0	486.6	486.2	485.7
125°	539.2	538.6	538.2	538.0	537.8	537.6	537.4
127.5°	588.5	587.8	587.1	586.5	585.8	585.2	584.5
130°	622.7	622.3	621.6	620.8	620.0	619.2	618.4
132.5°	655.1	654.2	653.4	652.8	652.0	651.4	650.8
135°	704.3	704.0	703.6	703.0	702.4	701.8	701.2
137.5°	750.8	750.6	750.1	749.2	748.5	747.7	746.8
140°	782.1	782.1	781.7	780.9	780.1	779.3	778.5
142.5°	810.6	810.8	810.5	809.6	808.8	808.0	807.2
145°	853.7	853.8	853.5	852.7	851.9	851.0	850.2
147.5°	891.5	892.0	891.8	891.0	890.3	889.5	888.7
150°	915.6	916.2	916.2	915.6	915.0	914.3	913.8
152.5°	939.6	940.4	940.4	939.6	938.9	938.1	937.3
155°	970.2	971.2	971.4	970.8	970.2	969.6	968.9
157.5°	998.5	999.9	1000.1	999.1	998.1	997.2	996.2
160°	1014.9	1016.2	1016.4	1015.6	1014.8	1013.9	1013.1
162.5°	1030.2	1031.6	1031.7	1030.8	1029.8	1028.8	1027.9
165°	1049.6	1051.1	1051.2	1050.3	1049.2	1048.2	1047.2
167.5°	1065.6	1067.1	1067.2	1066.2	1065.1	1064.1	1063.0
170°	1074.4	1075.9	1076.0	1074.8	1073.6	1072.3	1071.1
172.5°	1081.1	1082.5	1082.6	1081.4	1080.1	1079.0	1077.7
175°	1088.3	1089.7	1089.8	1088.6	1087.3	1086.2	1084.9
177.5°	1091.2	1092.1	1092.1	1091.2	1090.2	1089.2	1088.2
180°	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4	1090.4

(END OF REPORT)