

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: P331773-940

Luminaire Tested: **S122RDIW-S290D970U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331773-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S290D970U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4461.2 lumens
Efficiency: N/A
Efficacy: 117.4 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

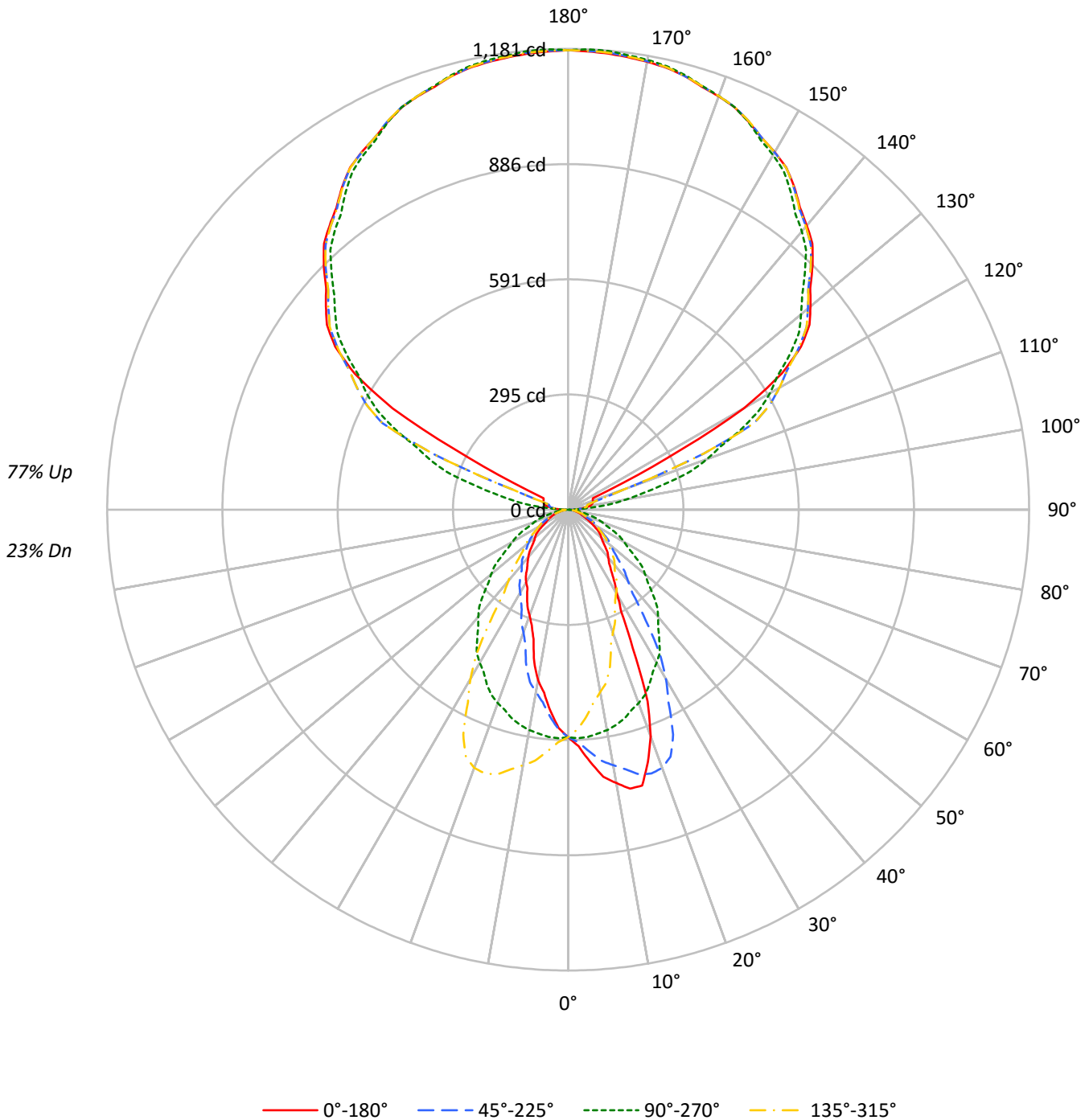
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9411	9411	9411	9411
5°	10511	9470	8399	9470
10°	11663	9404	7279	9404
15°	12236	9267	5735	9267
20°	10608	9062	4962	9062
25°	6957	8783	4431	8783
30°	4683	8444	4010	8444
35°	3792	8016	3617	8016
40°	3372	7552	3347	7552
45°	3053	7005	2987	7005
50°	2778	6465	2768	6465
55°	2609	5866	2578	5866
60°	2186	5318	2160	5318
65°	1841	4829	2090	4829
70°	1699	4310	1969	4310
75°	1591	3755	1822	3755
80°	1469	3096	1618	3096
85°	1352	2445	1426	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.2
10°-20°	154.0	3.5
20°-30°	198.4	4.4
30°-40°	188.6	4.2
40°-50°	161.5	3.6
50°-60°	123.0	2.8
60°-70°	77.8	1.7
70°-80°	38.8	0.9
80°-90°	13.0	0.3
90°-100°	39.3	0.9
100°-110°	144.0	3.2
110°-120°	385.0	8.6
120°-130°	635.6	14.2
130°-140°	675.9	15.2
140°-150°	628.3	14.1
150°-160°	505.1	11.3
160°-170°	325.5	7.3
170°-180°	112.0	2.5
0°-30°	407.7	9.1
0°-40°	596.2	13.4
0°-60°	880.8	19.7
0°-90°	1010.4	22.6
90°-120°	568.4	12.7
90°-150°	2508.2	56.2
90°-180°	3451.0	77.4
0°-180°	4461.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	583	583	583	583	583	
5°	648	584	518	584	648	64
15°	732	554	343	554	732	197
25°	390	493	249	493	390	185
35°	192	407	184	407	192	123
45°	134	307	131	307	134	103
55°	93	208	92	208	93	81
65°	48	126	55	126	48	49
75°	26	60	29	60	26	27
85°	7	13	8	13	7	8
90°	23	1	23	1	23	10
95°	37	55	37	55	37	34
105°	65	259	65	259	65	67
115°	70	490	70	490	70	175
125°	728	693	728	693	728	630
135°	885	857	885	857	885	682
145°	1010	994	1010	994	1010	631
155°	1096	1095	1096	1095	1096	506
165°	1151	1154	1151	1154	1151	325
175°	1173	1180	1173	1180	1173	112
180°	1178	1178	1178	1178	1178	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	606.6	607.1	607.6	606.5	606.5	605.5	603.3	601.7	597.2	596.6	596.6
5°	648.5	648.2	649.0	646.3	642.7	641.9	638.0	632.9	627.7	621.9	620.6
7.5°	690.3	689.6	688.0	687.6	684.8	678.7	672.5	665.9	657.2	648.6	644.4
10°	711.4	718.1	714.0	706.9	708.3	698.8	693.8	685.0	677.7	664.9	662.2
12.5°	732.1	734.8	733.4	729.4	727.6	721.0	714.2	706.6	693.1	681.7	671.7
15°	732.0	735.8	736.9	735.7	736.6	736.3	732.6	726.4	714.6	702.0	691.1
17.5°	678.0	680.6	687.3	691.8	697.5	709.4	715.4	717.6	716.0	708.7	701.1
20°	617.4	613.0	631.6	641.1	649.2	669.4	686.9	693.6	704.3	704.1	702.0
22.5°	531.5	532.5	550.2	561.5	585.1	605.5	625.3	650.4	671.2	684.9	692.9
25°	390.5	398.2	415.8	431.2	457.5	495.3	529.5	569.2	606.6	636.2	664.4
27.5°	293.3	293.9	307.8	322.1	337.7	368.5	411.7	459.1	512.5	556.6	607.3
30°	251.2	249.9	255.8	264.6	277.9	301.8	334.2	380.8	434.1	500.5	559.6
32.5°	221.3	221.4	225.9	232.3	243.3	259.5	281.7	319.6	369.9	435.2	504.5
35°	192.4	192.3	195.5	200.1	204.7	215.1	230.3	250.1	284.8	345.7	416.6
37.5°	171.7	172.5	174.2	177.1	182.2	188.0	197.1	210.4	235.1	271.2	330.7
40°	160.0	160.4	162.6	165.1	168.1	172.5	180.0	190.8	208.8	237.6	281.2
42.5°	149.4	149.7	151.3	153.6	156.0	160.4	166.7	175.9	190.6	212.9	248.9
45°	133.7	133.7	135.1	136.1	138.8	142.8	147.8	155.6	165.7	182.3	206.2
47.5°	119.0	119.0	120.0	121.7	123.4	126.5	131.5	137.9	145.2	158.0	178.4
50°	110.6	110.8	111.4	112.8	113.9	116.6	120.6	126.0	133.7	143.7	160.6
52.5°	103.8	103.7	104.4	105.0	105.8	107.7	110.7	115.5	122.3	131.0	145.1
55°	92.7	91.9	93.2	94.2	94.8	95.6	97.2	100.2	106.1	113.4	123.9
57.5°	79.0	78.6	79.5	80.4	82.4	84.5	86.0	87.8	90.9	96.1	106.6
60°	67.7	67.7	69.5	70.1	72.3	75.2	78.0	79.6	82.7	86.1	93.8
62.5°	57.6	57.8	58.6	59.2	60.5	63.9	67.9	71.5	74.4	77.7	82.8
65°	48.2	48.6	48.6	49.0	49.8	50.6	52.3	55.1	60.2	64.8	68.7
67.5°	40.9	41.0	41.2	41.6	41.7	42.6	43.3	44.6	45.7	50.1	54.9
70°	36.0	36.6	36.5	36.8	37.1	37.5	38.3	38.9	40.8	41.7	44.6
72.5°	31.5	31.9	31.9	32.2	32.7	32.8	33.4	34.1	35.2	36.0	37.6
75°	25.5	25.3	25.5	25.9	26.1	26.3	26.3	27.1	27.7	28.5	29.6
77.5°	19.7	19.9	19.9	19.9	20.0	20.3	20.2	20.6	21.2	21.7	22.1
80°	15.8	16.0	15.8	16.0	16.2	16.4	16.2	16.4	17.0	17.4	17.4
82.5°	12.2	12.3	12.4	12.4	12.5	12.5	12.8	12.8	13.3	13.2	13.4
85°	7.3	7.1	7.1	7.1	7.3	7.5	7.3	7.3	7.5	7.5	7.5
87.5°	7.2	7.3	7.2	7.1	7.0	7.0	6.7	6.7	6.3	6.3	5.9
90°	23.0	22.6	22.2	21.8	21.5	20.9	19.9	18.9	18.0	17.0	15.5
92.5°	23.0	22.7	22.6	22.3	22.1	21.8	21.2	20.8	20.2	19.8	19.0
95°	36.6	36.8	37.0	37.2	37.4	37.0	36.1	35.1	34.2	33.3	31.9
97.5°	48.9	48.7	48.4	48.2	48.0	47.5	46.7	46.0	45.2	44.5	41.4
100°	57.1	56.7	56.4	55.9	55.6	54.7	53.1	51.6	50.1	48.6	45.4
102.5°	61.2	60.6	60.1	59.6	59.0	57.8	55.8	53.9	51.9	49.9	76.9
105°	64.7	64.0	63.2	62.5	61.7	60.3	58.2	56.2	54.0	52.0	103.7
107.5°	66.6	65.9	65.1	64.4	63.6	64.3	66.4	68.5	70.6	72.8	134.7
110°	67.3	66.5	65.8	65.0	64.3	73.4	92.3	111.2	130.2	149.1	203.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	68.0	67.4	66.8	66.2	65.5	99.8	168.9	237.9	307.0	376.1	389.6
115°	69.9	83.5	97.1	110.8	124.4	175.0	262.7	350.4	438.0	525.8	521.0
117.5°	285.3	330.1	374.9	419.6	464.5	497.5	518.7	539.8	561.1	582.3	579.1
120°	519.8	545.3	570.9	596.5	622.0	633.6	631.3	629.1	626.9	624.6	621.2
122.5°	648.6	653.5	658.5	663.4	668.4	670.2	668.9	667.5	666.1	664.8	661.0
125°	728.5	727.9	727.4	726.8	726.2	725.3	724.0	722.6	721.3	720.0	716.4
127.5°	778.9	778.8	778.7	778.6	778.5	777.5	775.5	773.6	771.7	769.7	767.0
130°	810.3	810.5	810.7	810.8	811.1	810.1	808.1	805.9	803.9	801.8	799.7
132.5°	841.0	841.2	841.3	841.5	841.8	841.0	839.2	837.4	835.6	833.8	831.7
135°	885.3	885.6	886.0	886.4	886.8	886.0	884.1	882.3	880.4	878.5	876.7
137.5°	925.7	926.3	926.9	927.6	928.3	927.6	925.8	923.9	922.1	920.2	918.3
140°	950.9	951.8	952.8	953.8	954.7	954.3	952.6	950.9	949.2	947.5	945.4
142.5°	975.4	976.4	977.3	978.3	979.2	978.9	977.4	975.8	974.3	972.7	970.4
145°	1009.7	1010.7	1011.6	1012.5	1013.5	1013.3	1012.0	1010.7	1009.3	1008.0	1004.8
147.5°	1039.8	1040.6	1041.4	1042.2	1043.0	1042.9	1042.0	1041.0	1040.0	1039.0	1035.8
150°	1058.3	1059.2	1060.2	1061.1	1062.0	1061.9	1060.8	1059.7	1058.5	1057.4	1054.4
152.5°	1074.0	1075.2	1076.5	1077.7	1079.0	1079.0	1077.8	1076.7	1075.6	1074.4	1071.6
155°	1095.7	1097.3	1098.8	1100.3	1101.8	1102.0	1100.8	1099.7	1098.6	1097.4	1095.2
157.5°	1115.7	1117.1	1118.7	1120.1	1121.6	1121.7	1120.4	1119.1	1117.8	1116.5	1114.9
160°	1127.3	1128.6	1129.9	1131.2	1132.6	1132.7	1131.5	1130.4	1129.3	1128.1	1127.0
162.5°	1136.8	1138.4	1140.1	1141.7	1143.4	1143.5	1142.2	1140.9	1139.6	1138.4	1137.4
165°	1151.1	1152.4	1153.8	1155.1	1156.5	1156.5	1155.1	1153.8	1152.4	1151.1	1150.6
167.5°	1160.2	1161.9	1163.6	1165.3	1167.0	1167.2	1165.8	1164.5	1163.1	1161.9	1161.4
170°	1165.6	1167.3	1169.0	1170.7	1172.4	1172.6	1171.3	1170.0	1168.7	1167.3	1167.0
172.5°	1169.7	1171.4	1173.1	1174.8	1176.5	1176.7	1175.4	1174.0	1172.8	1171.4	1171.0
175°	1173.3	1175.2	1177.1	1178.9	1180.9	1181.2	1179.8	1178.5	1177.1	1175.8	1175.5
177.5°	1175.5	1176.9	1178.2	1179.6	1181.0	1181.1	1180.0	1179.0	1177.9	1176.9	1176.7
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	596.9	595.6	594.4	591.6	590.0	586.8	586.4	586.2	582.0	577.9	576.8
5°	617.4	614.1	609.3	603.6	597.7	591.7	587.6	584.3	576.2	568.6	564.1
7.5°	638.0	631.1	622.7	612.0	603.0	593.0	585.5	578.8	567.3	556.2	548.8
10°	653.4	642.1	631.0	616.2	604.6	593.3	582.7	573.6	560.7	546.1	535.7
12.5°	663.0	650.5	635.2	620.7	605.7	591.3	577.2	565.5	550.3	535.2	523.0
15°	675.9	662.5	643.9	623.2	604.0	585.1	569.0	554.4	534.6	516.5	501.5
17.5°	686.5	668.1	648.1	624.2	601.9	578.0	557.1	538.5	516.4	494.6	477.0
20°	689.9	671.6	648.5	624.6	598.3	570.2	547.7	527.4	503.7	480.0	459.8
22.5°	687.8	673.6	647.9	619.3	592.4	562.9	537.5	514.0	487.7	463.5	440.1
25°	673.5	668.6	644.4	613.1	582.4	548.1	518.7	493.0	463.1	437.1	411.6
27.5°	640.2	650.7	635.6	602.4	568.1	531.5	498.4	469.1	438.0	408.8	383.4
30°	608.1	632.1	625.7	594.9	556.6	520.6	483.5	452.9	419.7	389.7	364.6
32.5°	564.2	604.0	610.3	584.5	544.9	505.3	466.5	436.0	401.4	369.8	345.3
35°	494.2	553.8	581.1	564.7	525.0	482.2	442.2	406.7	371.8	340.7	316.4
37.5°	410.8	492.0	537.5	538.7	502.2	457.8	414.1	378.9	343.2	312.6	286.3
40°	356.7	444.6	504.0	517.1	486.3	438.4	394.1	358.3	323.5	293.5	263.3
42.5°	308.1	395.7	468.6	491.5	467.1	419.4	375.1	337.6	303.7	275.4	244.5
45°	249.1	325.7	406.1	447.0	433.5	389.3	342.5	306.8	275.1	250.6	221.0
47.5°	210.2	264.1	342.0	397.3	397.1	356.8	310.7	276.6	247.1	224.1	200.2
50°	188.0	235.0	300.8	363.6	368.8	335.0	291.2	257.4	229.9	205.8	186.5
52.5°	168.0	206.8	265.9	326.2	341.2	311.8	269.4	238.2	211.4	189.2	172.8
55°	142.0	172.0	217.0	273.2	296.0	275.3	237.6	208.4	186.7	168.1	153.9
57.5°	120.1	142.6	178.7	224.0	250.4	237.5	206.3	182.6	164.1	147.2	136.1
60°	106.4	124.8	155.3	193.2	222.4	213.3	186.7	164.7	148.9	134.3	123.8
62.5°	93.4	109.2	135.5	166.2	192.9	189.1	167.5	148.9	135.1	121.8	112.9
65°	75.2	86.7	107.2	131.3	152.8	154.5	138.9	126.4	114.0	103.5	95.6
67.5°	59.8	67.4	81.8	102.1	118.2	123.9	114.4	104.8	95.0	86.9	80.0
70°	50.5	56.5	67.1	83.5	98.3	104.3	98.8	91.3	82.8	76.2	70.3
72.5°	40.8	46.8	54.6	66.6	79.3	85.9	83.9	78.6	71.7	66.1	60.5
75°	30.8	32.6	37.9	46.0	55.9	61.6	63.0	60.2	54.7	50.5	47.2
77.5°	22.7	23.9	26.4	30.6	37.1	42.2	44.2	43.9	40.1	37.7	34.6
80°	18.2	18.8	20.1	21.8	26.8	31.8	33.3	33.3	30.6	29.6	26.6
82.5°	13.8	14.3	15.1	16.1	18.3	22.7	24.3	24.6	23.0	21.7	19.3
85°	7.9	7.7	8.1	8.7	9.1	10.3	12.8	13.2	12.8	11.1	10.5
87.5°	5.5	5.4	5.1	4.5	4.4	4.1	4.5	4.9	4.6	4.5	4.6
90°	14.0	12.5	11.0	9.2	7.1	5.0	2.9	0.9	2.9	5.0	7.1
92.5°	18.3	17.5	16.8	16.5	16.7	16.9	17.0	17.2	17.0	16.9	16.7
95°	30.6	29.2	27.9	30.4	36.6	42.9	49.1	55.4	49.1	42.9	36.6
97.5°	38.3	35.3	32.2	39.5	57.1	74.7	92.3	109.9	92.3	74.7	57.1
100°	42.1	38.9	35.7	47.1	73.0	98.9	124.8	150.8	124.8	98.9	73.0
102.5°	103.8	130.7	157.7	173.8	179.3	184.9	190.3	195.8	190.3	184.9	179.3
105°	155.3	207.1	258.8	281.8	276.1	270.4	264.7	259.0	264.7	270.4	276.1
107.5°	196.7	258.8	320.7	349.5	344.8	340.3	335.7	331.1	335.7	340.3	344.8
110°	258.6	313.3	368.0	393.3	389.4	385.4	381.5	377.5	381.5	385.4	389.4



TEST NUMBER: P331773-940

CATALOG NUMBER: S122RDIW-S290D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	403.1	416.7	430.2	435.2	431.7	428.1	424.6	421.1	424.6	428.1	431.7
115°	516.2	511.5	506.8	502.8	499.6	496.4	493.1	489.9	493.1	496.4	499.6
117.5°	575.8	572.6	569.3	565.9	562.2	558.7	555.1	551.4	555.1	558.7	562.2
120°	617.8	614.3	610.9	607.8	604.9	602.1	599.3	596.5	599.3	602.1	604.9
122.5°	657.4	653.6	650.0	646.6	643.5	640.6	637.6	634.6	637.6	640.6	643.5
125°	712.8	709.2	705.6	702.6	700.1	697.7	695.2	692.7	695.2	697.7	700.1
127.5°	764.4	761.7	759.0	756.3	753.6	750.8	748.1	745.4	748.1	750.8	753.6
130°	797.6	795.5	793.4	790.9	787.8	784.9	781.9	778.8	781.9	784.9	787.8
132.5°	829.6	827.6	825.5	823.1	820.6	818.1	815.5	812.9	815.5	818.1	820.6
135°	875.0	873.3	871.6	869.3	866.3	863.3	860.2	857.2	860.2	863.3	866.3
137.5°	916.3	914.4	912.5	910.4	908.4	906.2	904.1	902.0	904.1	906.2	908.4
140°	943.3	941.2	939.1	937.4	935.9	934.3	932.8	931.3	932.8	934.3	935.9
142.5°	968.0	965.5	963.1	961.3	959.9	958.6	957.2	955.8	957.2	958.6	959.9
145°	1001.6	998.4	995.1	993.6	993.8	994.0	994.2	994.3	994.2	994.0	993.8
147.5°	1032.6	1029.5	1026.3	1025.0	1025.7	1026.4	1027.2	1028.0	1027.2	1026.4	1025.7
150°	1051.3	1048.3	1045.3	1044.5	1045.8	1047.0	1048.4	1049.7	1048.4	1047.0	1045.8
152.5°	1068.7	1065.8	1062.9	1062.2	1063.7	1065.1	1066.7	1068.2	1066.7	1065.1	1063.7
155°	1092.9	1090.7	1088.3	1088.1	1089.8	1091.5	1093.1	1094.9	1093.1	1091.5	1089.8
157.5°	1113.4	1111.8	1110.2	1110.1	1111.5	1112.9	1114.5	1115.9	1114.5	1112.9	1111.5
160°	1125.9	1124.7	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1	1127.0	1125.9	1124.7
162.5°	1136.4	1135.4	1134.4	1134.5	1135.6	1136.8	1137.9	1139.1	1137.9	1136.8	1135.6
165°	1150.0	1149.4	1148.9	1149.1	1150.3	1151.4	1152.5	1153.7	1152.5	1151.4	1150.3
167.5°	1160.8	1160.3	1159.8	1160.0	1161.2	1162.3	1163.4	1164.6	1163.4	1162.3	1161.2
170°	1166.5	1166.2	1165.8	1166.2	1167.3	1168.5	1169.6	1170.7	1169.6	1168.5	1167.3
172.5°	1170.6	1170.3	1169.9	1170.3	1171.4	1172.5	1173.7	1174.8	1173.7	1172.5	1171.4
175°	1175.1	1174.7	1174.3	1174.8	1176.2	1177.4	1178.8	1180.1	1178.8	1177.4	1176.2
177.5°	1176.5	1176.4	1176.3	1176.7	1177.8	1178.8	1179.9	1181.0	1179.9	1178.8	1177.8
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



TEST NUMBER: P331773-940

CATALOG NUMBER: S122RDIW-S290D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	574.7	573.5	571.4	568.2	566.2	562.8	560.6	561.9	562.2	561.9	561.6
5°	559.3	555.0	549.1	543.4	538.1	532.5	529.2	527.9	525.0	523.4	522.5
7.5°	540.6	533.2	525.0	515.1	506.7	497.8	493.4	491.2	485.4	482.2	479.5
10°	526.6	515.1	506.8	493.8	485.9	474.4	466.5	466.7	458.8	454.3	451.1
12.5°	511.2	498.6	484.7	473.1	462.1	452.8	443.3	439.4	431.1	426.8	418.0
15°	485.7	470.9	456.4	440.6	429.4	415.0	401.3	384.4	370.9	359.1	355.9
17.5°	457.9	439.5	424.9	406.4	387.3	363.1	347.1	337.3	329.2	323.0	318.3
20°	438.7	420.1	404.5	376.6	350.8	334.4	322.7	315.1	306.7	300.0	296.3
22.5°	418.7	399.2	377.9	346.7	326.6	313.5	303.1	294.4	288.6	283.5	280.1
25°	390.1	368.8	333.8	312.4	296.1	282.3	275.1	269.8	263.8	256.6	253.4
27.5°	360.0	326.2	301.0	285.0	269.6	260.6	254.0	246.2	240.8	237.6	234.2
30°	337.4	303.6	284.0	266.5	255.7	245.7	238.0	233.5	228.3	222.8	220.6
32.5°	312.4	285.3	266.4	252.0	240.9	232.4	226.3	219.1	215.3	212.0	207.3
35°	281.2	260.6	243.4	231.8	221.1	214.3	207.2	203.0	196.1	193.2	191.5
37.5°	254.8	237.0	224.2	211.8	203.4	195.8	191.5	184.7	181.7	177.7	173.9
40°	239.8	222.4	210.1	199.9	190.6	184.9	179.5	174.0	169.5	167.7	163.1
42.5°	224.6	210.4	198.0	187.0	180.7	174.7	167.8	163.8	159.2	156.2	153.4
45°	203.6	191.0	180.5	171.4	164.4	158.2	153.7	147.0	144.5	138.6	136.1
47.5°	185.1	173.4	163.4	154.7	148.0	143.9	137.4	132.2	128.0	124.3	121.2
50°	172.0	162.2	152.5	144.8	138.8	132.9	126.2	123.6	117.1	115.2	113.4
52.5°	160.0	150.7	141.9	134.3	128.2	122.5	116.6	113.2	108.8	107.0	105.7
55°	143.2	134.3	125.8	119.1	113.1	107.2	103.5	99.2	97.2	95.8	94.2
57.5°	126.4	118.3	111.8	105.0	98.9	94.3	90.1	87.5	85.4	83.6	81.6
60°	115.7	108.0	102.1	95.8	89.5	85.7	82.5	79.4	77.0	74.1	73.3
62.5°	104.3	97.6	92.2	86.1	80.6	77.1	74.0	71.2	68.2	64.1	63.0
65°	88.7	83.5	77.8	72.7	67.9	64.4	59.9	56.7	55.5	55.1	54.9
67.5°	74.6	69.6	64.7	59.6	55.2	52.0	49.7	49.2	48.3	48.2	47.5
70°	65.2	60.5	55.7	50.8	46.5	46.0	45.2	44.3	43.3	43.0	42.5
72.5°	56.8	52.0	47.1	43.2	41.4	40.7	39.9	39.0	38.3	37.9	37.7
75°	43.5	39.1	35.8	34.4	33.4	32.8	31.6	31.0	30.6	30.0	29.8
77.5°	31.4	28.8	27.4	26.5	25.4	24.8	24.1	23.5	23.0	22.9	22.6
80°	23.9	22.6	21.7	20.4	20.1	19.3	19.1	18.5	18.6	18.0	18.0
82.5°	18.5	17.0	16.1	15.6	15.2	14.5	14.4	14.1	14.1	13.6	13.6
85°	9.5	9.1	8.7	8.3	8.3	7.7	7.9	7.7	7.7	7.3	7.1
87.5°	4.9	5.1	5.1	5.4	5.7	5.8	6.1	6.1	6.2	6.4	6.4
90°	9.2	11.0	12.5	14.0	15.5	17.0	18.0	18.9	19.9	20.9	21.5
92.5°	16.5	16.8	17.5	18.3	19.0	19.8	20.2	20.8	21.2	21.8	22.1
95°	30.4	27.9	29.2	30.6	31.9	33.3	34.2	35.1	36.1	37.0	37.4
97.5°	39.5	32.2	35.3	38.3	41.4	44.5	45.2	46.0	46.7	47.5	48.0
100°	47.1	35.7	38.9	42.1	45.4	48.6	50.1	51.6	53.1	54.7	55.6
102.5°	173.8	157.7	130.7	103.8	76.9	49.9	51.9	53.9	55.8	57.8	59.0
105°	281.8	258.8	207.1	155.3	103.7	52.0	54.0	56.2	58.2	60.3	61.7
107.5°	349.5	320.7	258.8	196.7	134.7	72.8	70.6	68.5	66.4	64.3	63.6
110°	393.3	368.0	313.3	258.6	203.8	149.1	130.2	111.2	92.3	73.4	64.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	435.2	430.2	416.7	403.1	389.6	376.1	307.0	237.9	168.9	99.8	65.5
115°	502.8	506.8	511.5	516.2	521.0	525.8	438.0	350.4	262.7	175.0	124.4
117.5°	565.9	569.3	572.6	575.8	579.1	582.3	561.1	539.8	518.7	497.5	464.5
120°	607.8	610.9	614.3	617.8	621.2	624.6	626.9	629.1	631.3	633.6	622.0
122.5°	646.6	650.0	653.6	657.4	661.0	664.8	666.1	667.5	668.9	670.2	668.4
125°	702.6	705.6	709.2	712.8	716.4	720.0	721.3	722.6	724.0	725.3	726.2
127.5°	756.3	759.0	761.7	764.4	767.0	769.7	771.7	773.6	775.5	777.5	778.5
130°	790.9	793.4	795.5	797.6	799.7	801.8	803.9	805.9	808.1	810.1	811.1
132.5°	823.1	825.5	827.6	829.6	831.7	833.8	835.6	837.4	839.2	841.0	841.8
135°	869.3	871.6	873.3	875.0	876.7	878.5	880.4	882.3	884.1	886.0	886.8
137.5°	910.4	912.5	914.4	916.3	918.3	920.2	922.1	923.9	925.8	927.6	928.3
140°	937.4	939.1	941.2	943.3	945.4	947.5	949.2	950.9	952.6	954.3	954.7
142.5°	961.3	963.1	965.5	968.0	970.4	972.7	974.3	975.8	977.4	978.9	979.2
145°	993.6	995.1	998.4	1001.6	1004.8	1008.0	1009.3	1010.7	1012.0	1013.3	1013.5
147.5°	1025.0	1026.3	1029.5	1032.6	1035.8	1039.0	1040.0	1041.0	1042.0	1042.9	1043.0
150°	1044.5	1045.3	1048.3	1051.3	1054.4	1057.4	1058.5	1059.7	1060.8	1061.9	1062.0
152.5°	1062.2	1062.9	1065.8	1068.7	1071.6	1074.4	1075.6	1076.7	1077.8	1079.0	1079.0
155°	1088.1	1088.3	1090.7	1092.9	1095.2	1097.4	1098.6	1099.7	1100.8	1102.0	1101.8
157.5°	1110.1	1110.2	1111.8	1113.4	1114.9	1116.5	1117.8	1119.1	1120.4	1121.7	1121.6
160°	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1	1129.3	1130.4	1131.5	1132.7	1132.6
162.5°	1134.5	1134.4	1135.4	1136.4	1137.4	1138.4	1139.6	1140.9	1142.2	1143.5	1143.4
165°	1149.1	1148.9	1149.4	1150.0	1150.6	1151.1	1152.4	1153.8	1155.1	1156.5	1156.5
167.5°	1160.0	1159.8	1160.3	1160.8	1161.4	1161.9	1163.1	1164.5	1165.8	1167.2	1167.0
170°	1166.2	1165.8	1166.2	1166.5	1167.0	1167.3	1168.7	1170.0	1171.3	1172.6	1172.4
172.5°	1170.3	1169.9	1170.3	1170.6	1171.0	1171.4	1172.8	1174.0	1175.4	1176.7	1176.5
175°	1174.8	1174.3	1174.7	1175.1	1175.5	1175.8	1177.1	1178.5	1179.8	1181.2	1180.9
177.5°	1176.7	1176.3	1176.4	1176.5	1176.7	1176.9	1177.9	1179.0	1180.0	1181.1	1181.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



TEST NUMBER: P331773-940

CATALOG NUMBER: S122RDIW-S290D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	559.8	560.1	559.6	559.9	559.6	560.1	559.8	561.6	561.9	562.2	561.9
5°	521.6	519.2	518.7	518.2	518.7	519.2	521.6	522.5	523.4	525.0	527.9
7.5°	476.0	475.6	474.6	473.1	474.6	475.6	476.0	479.5	482.2	485.4	491.2
10°	446.7	445.6	445.4	444.0	445.4	445.6	446.7	451.1	454.3	458.8	466.7
12.5°	412.2	405.7	405.1	401.5	405.1	405.7	412.2	418.0	426.8	431.1	439.4
15°	351.1	349.8	345.7	343.1	345.7	349.8	351.1	355.9	359.1	370.9	384.4
17.5°	316.0	312.0	310.8	310.2	310.8	312.0	316.0	318.3	323.0	329.2	337.3
20°	293.5	289.9	289.3	288.8	289.3	289.9	293.5	296.3	300.0	306.7	315.1
22.5°	277.9	274.1	272.6	271.3	272.6	274.1	277.9	280.1	283.5	288.6	294.4
25°	251.4	249.9	249.1	248.7	249.1	249.9	251.4	253.4	256.6	263.8	269.8
27.5°	230.6	227.5	226.9	225.8	226.9	227.5	230.6	234.2	237.6	240.8	246.2
30°	218.7	217.8	216.3	215.1	216.3	217.8	218.7	220.6	222.8	228.3	233.5
32.5°	204.8	203.9	202.7	202.2	202.7	203.9	204.8	207.3	212.0	215.3	219.1
35°	189.4	186.5	185.3	183.5	185.3	186.5	189.4	191.5	193.2	196.1	203.0
37.5°	173.1	171.6	169.9	170.5	169.9	171.6	173.1	173.9	177.7	181.7	184.7
40°	160.4	159.4	159.0	158.8	159.0	159.4	160.4	163.1	167.7	169.5	174.0
42.5°	150.3	147.6	146.5	146.5	146.5	147.6	150.3	153.4	156.2	159.2	163.8
45°	135.1	132.5	130.6	130.8	130.6	132.5	135.1	136.1	138.6	144.5	147.0
47.5°	119.5	119.4	118.2	118.6	118.2	119.4	119.5	121.2	124.3	128.0	132.2
50°	112.0	110.8	109.9	110.2	109.9	110.8	112.0	113.4	115.2	117.1	123.6
52.5°	104.9	103.8	103.2	104.1	103.2	103.8	104.9	105.7	107.0	108.8	113.2
55°	93.2	91.9	91.8	91.6	91.8	91.9	93.2	94.2	95.8	97.2	99.2
57.5°	80.1	79.3	78.0	77.6	78.0	79.3	80.1	81.6	83.6	85.4	87.5
60°	70.7	69.1	67.1	66.9	67.1	69.1	70.7	73.3	74.1	77.0	79.4
62.5°	62.1	61.8	61.3	61.3	61.3	61.8	62.1	63.0	64.1	68.2	71.2
65°	54.5	54.3	54.5	54.7	54.5	54.3	54.5	54.9	55.1	55.5	56.7
67.5°	47.4	47.1	46.7	46.9	46.7	47.1	47.4	47.5	48.2	48.3	49.2
70°	42.1	41.9	41.7	41.7	41.7	41.9	42.1	42.5	43.0	43.3	44.3
72.5°	36.9	36.9	36.7	36.6	36.7	36.9	36.9	37.7	37.9	38.3	39.0
75°	29.6	29.2	29.2	29.2	29.2	29.2	29.6	29.8	30.0	30.6	31.0
77.5°	22.6	22.3	22.1	21.9	22.1	22.3	22.6	22.6	22.9	23.0	23.5
80°	17.8	17.7	17.4	17.4	17.4	17.7	17.8	18.0	18.0	18.6	18.5
82.5°	13.6	13.4	13.4	13.2	13.4	13.4	13.6	13.6	13.6	14.1	14.1
85°	7.3	7.5	7.3	7.7	7.3	7.5	7.3	7.1	7.3	7.7	7.7
87.5°	6.5	6.4	6.6	6.5	6.6	6.4	6.5	6.4	6.4	6.2	6.1
90°	21.8	22.2	22.6	23.0	22.6	22.2	21.8	21.5	20.9	19.9	18.9
92.5°	22.3	22.6	22.7	23.0	22.7	22.6	22.3	22.1	21.8	21.2	20.8
95°	37.2	37.0	36.8	36.6	36.8	37.0	37.2	37.4	37.0	36.1	35.1
97.5°	48.2	48.4	48.7	48.9	48.7	48.4	48.2	48.0	47.5	46.7	46.0
100°	55.9	56.4	56.7	57.1	56.7	56.4	55.9	55.6	54.7	53.1	51.6
102.5°	59.6	60.1	60.6	61.2	60.6	60.1	59.6	59.0	57.8	55.8	53.9
105°	62.5	63.2	64.0	64.7	64.0	63.2	62.5	61.7	60.3	58.2	56.2
107.5°	64.4	65.1	65.9	66.6	65.9	65.1	64.4	63.6	64.3	66.4	68.5
110°	65.0	65.8	66.5	67.3	66.5	65.8	65.0	64.3	73.4	92.3	111.2



TEST NUMBER: P331773-940

CATALOG NUMBER: S122RDIW-S290D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	66.2	66.8	67.4	68.0	67.4	66.8	66.2	65.5	99.8	168.9	237.9
115°	110.8	97.1	83.5	69.9	83.5	97.1	110.8	124.4	175.0	262.7	350.4
117.5°	419.6	374.9	330.1	285.3	330.1	374.9	419.6	464.5	497.5	518.7	539.8
120°	596.5	570.9	545.3	519.8	545.3	570.9	596.5	622.0	633.6	631.3	629.1
122.5°	663.4	658.5	653.5	648.6	653.5	658.5	663.4	668.4	670.2	668.9	667.5
125°	726.8	727.4	727.9	728.5	727.9	727.4	726.8	726.2	725.3	724.0	722.6
127.5°	778.6	778.7	778.8	778.9	778.8	778.7	778.6	778.5	777.5	775.5	773.6
130°	810.8	810.7	810.5	810.3	810.5	810.7	810.8	811.1	810.1	808.1	805.9
132.5°	841.5	841.3	841.2	841.0	841.2	841.3	841.5	841.8	841.0	839.2	837.4
135°	886.4	886.0	885.6	885.3	885.6	886.0	886.4	886.8	886.0	884.1	882.3
137.5°	927.6	926.9	926.3	925.7	926.3	926.9	927.6	928.3	927.6	925.8	923.9
140°	953.8	952.8	951.8	950.9	951.8	952.8	953.8	954.7	954.3	952.6	950.9
142.5°	978.3	977.3	976.4	975.4	976.4	977.3	978.3	979.2	978.9	977.4	975.8
145°	1012.5	1011.6	1010.7	1009.7	1010.7	1011.6	1012.5	1013.5	1013.3	1012.0	1010.7
147.5°	1042.2	1041.4	1040.6	1039.8	1040.6	1041.4	1042.2	1043.0	1042.9	1042.0	1041.0
150°	1061.1	1060.2	1059.2	1058.3	1059.2	1060.2	1061.1	1062.0	1061.9	1060.8	1059.7
152.5°	1077.7	1076.5	1075.2	1074.0	1075.2	1076.5	1077.7	1079.0	1079.0	1077.8	1076.7
155°	1100.3	1098.8	1097.3	1095.7	1097.3	1098.8	1100.3	1101.8	1102.0	1100.8	1099.7
157.5°	1120.1	1118.7	1117.1	1115.7	1117.1	1118.7	1120.1	1121.6	1121.7	1120.4	1119.1
160°	1131.2	1129.9	1128.6	1127.3	1128.6	1129.9	1131.2	1132.6	1132.7	1131.5	1130.4
162.5°	1141.7	1140.1	1138.4	1136.8	1138.4	1140.1	1141.7	1143.4	1143.5	1142.2	1140.9
165°	1155.1	1153.8	1152.4	1151.1	1152.4	1153.8	1155.1	1156.5	1156.5	1155.1	1153.8
167.5°	1165.3	1163.6	1161.9	1160.2	1161.9	1163.6	1165.3	1167.0	1167.2	1165.8	1164.5
170°	1170.7	1169.0	1167.3	1165.6	1167.3	1169.0	1170.7	1172.4	1172.6	1171.3	1170.0
172.5°	1174.8	1173.1	1171.4	1169.7	1171.4	1173.1	1174.8	1176.5	1176.7	1175.4	1174.0
175°	1178.9	1177.1	1175.2	1173.3	1175.2	1177.1	1178.9	1180.9	1181.2	1179.8	1178.5
177.5°	1179.6	1178.2	1176.9	1175.5	1176.9	1178.2	1179.6	1181.0	1181.1	1180.0	1179.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



TEST NUMBER: P331773-940

CATALOG NUMBER: S122RDIW-S290D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	560.6	562.8	566.2	568.2	571.4	573.5	574.7	576.8	577.9	582.0	586.2
5°	529.2	532.5	538.1	543.4	549.1	555.0	559.3	564.1	568.6	576.2	584.3
7.5°	493.4	497.8	506.7	515.1	525.0	533.2	540.6	548.8	556.2	567.3	578.8
10°	466.5	474.4	485.9	493.8	506.8	515.1	526.6	535.7	546.1	560.7	573.6
12.5°	443.3	452.8	462.1	473.1	484.7	498.6	511.2	523.0	535.2	550.3	565.5
15°	401.3	415.0	429.4	440.6	456.4	470.9	485.7	501.5	516.5	534.6	554.4
17.5°	347.1	363.1	387.3	406.4	424.9	439.5	457.9	477.0	494.6	516.4	538.5
20°	322.7	334.4	350.8	376.6	404.5	420.1	438.7	459.8	480.0	503.7	527.4
22.5°	303.1	313.5	326.6	346.7	377.9	399.2	418.7	440.1	463.5	487.7	514.0
25°	275.1	282.3	296.1	312.4	333.8	368.8	390.1	411.6	437.1	463.1	493.0
27.5°	254.0	260.6	269.6	285.0	301.0	326.2	360.0	383.4	408.8	438.0	469.1
30°	238.0	245.7	255.7	266.5	284.0	303.6	337.4	364.6	389.7	419.7	452.9
32.5°	226.3	232.4	240.9	252.0	266.4	285.3	312.4	345.3	369.8	401.4	436.0
35°	207.2	214.3	221.1	231.8	243.4	260.6	281.2	316.4	340.7	371.8	406.7
37.5°	191.5	195.8	203.4	211.8	224.2	237.0	254.8	286.3	312.6	343.2	378.9
40°	179.5	184.9	190.6	199.9	210.1	222.4	239.8	263.3	293.5	323.5	358.3
42.5°	167.8	174.7	180.7	187.0	198.0	210.4	224.6	244.5	275.4	303.7	337.6
45°	153.7	158.2	164.4	171.4	180.5	191.0	203.6	221.0	250.6	275.1	306.8
47.5°	137.4	143.9	148.0	154.7	163.4	173.4	185.1	200.2	224.1	247.1	276.6
50°	126.2	132.9	138.8	144.8	152.5	162.2	172.0	186.5	205.8	229.9	257.4
52.5°	116.6	122.5	128.2	134.3	141.9	150.7	160.0	172.8	189.2	211.4	238.2
55°	103.5	107.2	113.1	119.1	125.8	134.3	143.2	153.9	168.1	186.7	208.4
57.5°	90.1	94.3	98.9	105.0	111.8	118.3	126.4	136.1	147.2	164.1	182.6
60°	82.5	85.7	89.5	95.8	102.1	108.0	115.7	123.8	134.3	148.9	164.7
62.5°	74.0	77.1	80.6	86.1	92.2	97.6	104.3	112.9	121.8	135.1	148.9
65°	59.9	64.4	67.9	72.7	77.8	83.5	88.7	95.6	103.5	114.0	126.4
67.5°	49.7	52.0	55.2	59.6	64.7	69.6	74.6	80.0	86.9	95.0	104.8
70°	45.2	46.0	46.5	50.8	55.7	60.5	65.2	70.3	76.2	82.8	91.3
72.5°	39.9	40.7	41.4	43.2	47.1	52.0	56.8	60.5	66.1	71.7	78.6
75°	31.6	32.8	33.4	34.4	35.8	39.1	43.5	47.2	50.5	54.7	60.2
77.5°	24.1	24.8	25.4	26.5	27.4	28.8	31.4	34.6	37.7	40.1	43.9
80°	19.1	19.3	20.1	20.4	21.7	22.6	23.9	26.6	29.6	30.6	33.3
82.5°	14.4	14.5	15.2	15.6	16.1	17.0	18.5	19.3	21.7	23.0	24.6
85°	7.9	7.7	8.3	8.3	8.7	9.1	9.5	10.5	11.1	12.8	13.2
87.5°	6.1	5.8	5.7	5.4	5.1	5.1	4.9	4.6	4.5	4.6	4.9
90°	18.0	17.0	15.5	14.0	12.5	11.0	9.2	7.1	5.0	2.9	0.9
92.5°	20.2	19.8	19.0	18.3	17.5	16.8	16.5	16.7	16.9	17.0	17.2
95°	34.2	33.3	31.9	30.6	29.2	27.9	30.4	36.6	42.9	49.1	55.4
97.5°	45.2	44.5	41.4	38.3	35.3	32.2	39.5	57.1	74.7	92.3	109.9
100°	50.1	48.6	45.4	42.1	38.9	35.7	47.1	73.0	98.9	124.8	150.8
102.5°	51.9	49.9	76.9	103.8	130.7	157.7	173.8	179.3	184.9	190.3	195.8
105°	54.0	52.0	103.7	155.3	207.1	258.8	281.8	276.1	270.4	264.7	259.0
107.5°	70.6	72.8	134.7	196.7	258.8	320.7	349.5	344.8	340.3	335.7	331.1
110°	130.2	149.1	203.8	258.6	313.3	368.0	393.3	389.4	385.4	381.5	377.5



TEST NUMBER: P331773-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	307.0	376.1	389.6	403.1	416.7	430.2	435.2	431.7	428.1	424.6	421.1
115°	438.0	525.8	521.0	516.2	511.5	506.8	502.8	499.6	496.4	493.1	489.9
117.5°	561.1	582.3	579.1	575.8	572.6	569.3	565.9	562.2	558.7	555.1	551.4
120°	626.9	624.6	621.2	617.8	614.3	610.9	607.8	604.9	602.1	599.3	596.5
122.5°	666.1	664.8	661.0	657.4	653.6	650.0	646.6	643.5	640.6	637.6	634.6
125°	721.3	720.0	716.4	712.8	709.2	705.6	702.6	700.1	697.7	695.2	692.7
127.5°	771.7	769.7	767.0	764.4	761.7	759.0	756.3	753.6	750.8	748.1	745.4
130°	803.9	801.8	799.7	797.6	795.5	793.4	790.9	787.8	784.9	781.9	778.8
132.5°	835.6	833.8	831.7	829.6	827.6	825.5	823.1	820.6	818.1	815.5	812.9
135°	880.4	878.5	876.7	875.0	873.3	871.6	869.3	866.3	863.3	860.2	857.2
137.5°	922.1	920.2	918.3	916.3	914.4	912.5	910.4	908.4	906.2	904.1	902.0
140°	949.2	947.5	945.4	943.3	941.2	939.1	937.4	935.9	934.3	932.8	931.3
142.5°	974.3	972.7	970.4	968.0	965.5	963.1	961.3	959.9	958.6	957.2	955.8
145°	1009.3	1008.0	1004.8	1001.6	998.4	995.1	993.6	993.8	994.0	994.2	994.3
147.5°	1040.0	1039.0	1035.8	1032.6	1029.5	1026.3	1025.0	1025.7	1026.4	1027.2	1028.0
150°	1058.5	1057.4	1054.4	1051.3	1048.3	1045.3	1044.5	1045.8	1047.0	1048.4	1049.7
152.5°	1075.6	1074.4	1071.6	1068.7	1065.8	1062.9	1062.2	1063.7	1065.1	1066.7	1068.2
155°	1098.6	1097.4	1095.2	1092.9	1090.7	1088.3	1088.1	1089.8	1091.5	1093.1	1094.9
157.5°	1117.8	1116.5	1114.9	1113.4	1111.8	1110.2	1110.1	1111.5	1112.9	1114.5	1115.9
160°	1129.3	1128.1	1127.0	1125.9	1124.7	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1
162.5°	1139.6	1138.4	1137.4	1136.4	1135.4	1134.4	1134.5	1135.6	1136.8	1137.9	1139.1
165°	1152.4	1151.1	1150.6	1150.0	1149.4	1148.9	1149.1	1150.3	1151.4	1152.5	1153.7
167.5°	1163.1	1161.9	1161.4	1160.8	1160.3	1159.8	1160.0	1161.2	1162.3	1163.4	1164.6
170°	1168.7	1167.3	1167.0	1166.5	1166.2	1165.8	1166.2	1167.3	1168.5	1169.6	1170.7
172.5°	1172.8	1171.4	1171.0	1170.6	1170.3	1169.9	1170.3	1171.4	1172.5	1173.7	1174.8
175°	1177.1	1175.8	1175.5	1175.1	1174.7	1174.3	1174.8	1176.2	1177.4	1178.8	1180.1
177.5°	1177.9	1176.9	1176.7	1176.5	1176.4	1176.3	1176.7	1177.8	1178.8	1179.9	1181.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



TEST NUMBER: P331773-940

CATALOG NUMBER: S122RDIW-S290D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	586.4	586.8	590.0	591.6	594.4	595.6	596.9	596.6	596.6	597.2	601.7
5°	587.6	591.7	597.7	603.6	609.3	614.1	617.4	620.6	621.9	627.7	632.9
7.5°	585.5	593.0	603.0	612.0	622.7	631.1	638.0	644.4	648.6	657.2	665.9
10°	582.7	593.3	604.6	616.2	631.0	642.1	653.4	662.2	664.9	677.7	685.0
12.5°	577.2	591.3	605.7	620.7	635.2	650.5	663.0	671.7	681.7	693.1	706.6
15°	569.0	585.1	604.0	623.2	643.9	662.5	675.9	691.1	702.0	714.6	726.4
17.5°	557.1	578.0	601.9	624.2	648.1	668.1	686.5	701.1	708.7	716.0	717.6
20°	547.7	570.2	598.3	624.6	648.5	671.6	689.9	702.0	704.1	704.3	693.6
22.5°	537.5	562.9	592.4	619.3	647.9	673.6	687.8	692.9	684.9	671.2	650.4
25°	518.7	548.1	582.4	613.1	644.4	668.6	673.5	664.4	636.2	606.6	569.2
27.5°	498.4	531.5	568.1	602.4	635.6	650.7	640.2	607.3	556.6	512.5	459.1
30°	483.5	520.6	556.6	594.9	625.7	632.1	608.1	559.6	500.5	434.1	380.8
32.5°	466.5	505.3	544.9	584.5	610.3	604.0	564.2	504.5	435.2	369.9	319.6
35°	442.2	482.2	525.0	564.7	581.1	553.8	494.2	416.6	345.7	284.8	250.1
37.5°	414.1	457.8	502.2	538.7	537.5	492.0	410.8	330.7	271.2	235.1	210.4
40°	394.1	438.4	486.3	517.1	504.0	444.6	356.7	281.2	237.6	208.8	190.8
42.5°	375.1	419.4	467.1	491.5	468.6	395.7	308.1	248.9	212.9	190.6	175.9
45°	342.5	389.3	433.5	447.0	406.1	325.7	249.1	206.2	182.3	165.7	155.6
47.5°	310.7	356.8	397.1	397.3	342.0	264.1	210.2	178.4	158.0	145.2	137.9
50°	291.2	335.0	368.8	363.6	300.8	235.0	188.0	160.6	143.7	133.7	126.0
52.5°	269.4	311.8	341.2	326.2	265.9	206.8	168.0	145.1	131.0	122.3	115.5
55°	237.6	275.3	296.0	273.2	217.0	172.0	142.0	123.9	113.4	106.1	100.2
57.5°	206.3	237.5	250.4	224.0	178.7	142.6	120.1	106.6	96.1	90.9	87.8
60°	186.7	213.3	222.4	193.2	155.3	124.8	106.4	93.8	86.1	82.7	79.6
62.5°	167.5	189.1	192.9	166.2	135.5	109.2	93.4	82.8	77.7	74.4	71.5
65°	138.9	154.5	152.8	131.3	107.2	86.7	75.2	68.7	64.8	60.2	55.1
67.5°	114.4	123.9	118.2	102.1	81.8	67.4	59.8	54.9	50.1	45.7	44.6
70°	98.8	104.3	98.3	83.5	67.1	56.5	50.5	44.6	41.7	40.8	38.9
72.5°	83.9	85.9	79.3	66.6	54.6	46.8	40.8	37.6	36.0	35.2	34.1
75°	63.0	61.6	55.9	46.0	37.9	32.6	30.8	29.6	28.5	27.7	27.1
77.5°	44.2	42.2	37.1	30.6	26.4	23.9	22.7	22.1	21.7	21.2	20.6
80°	33.3	31.8	26.8	21.8	20.1	18.8	18.2	17.4	17.4	17.0	16.4
82.5°	24.3	22.7	18.3	16.1	15.1	14.3	13.8	13.4	13.2	13.3	12.8
85°	12.8	10.3	9.1	8.7	8.1	7.7	7.9	7.5	7.5	7.5	7.3
87.5°	4.5	4.1	4.4	4.5	5.1	5.4	5.5	5.9	6.3	6.3	6.7
90°	2.9	5.0	7.1	9.2	11.0	12.5	14.0	15.5	17.0	18.0	18.9
92.5°	17.0	16.9	16.7	16.5	16.8	17.5	18.3	19.0	19.8	20.2	20.8
95°	49.1	42.9	36.6	30.4	27.9	29.2	30.6	31.9	33.3	34.2	35.1
97.5°	92.3	74.7	57.1	39.5	32.2	35.3	38.3	41.4	44.5	45.2	46.0
100°	124.8	98.9	73.0	47.1	35.7	38.9	42.1	45.4	48.6	50.1	51.6
102.5°	190.3	184.9	179.3	173.8	157.7	130.7	103.8	76.9	49.9	51.9	53.9
105°	264.7	270.4	276.1	281.8	258.8	207.1	155.3	103.7	52.0	54.0	56.2
107.5°	335.7	340.3	344.8	349.5	320.7	258.8	196.7	134.7	72.8	70.6	68.5
110°	381.5	385.4	389.4	393.3	368.0	313.3	258.6	203.8	149.1	130.2	111.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	424.6	428.1	431.7	435.2	430.2	416.7	403.1	389.6	376.1	307.0	237.9
115°	493.1	496.4	499.6	502.8	506.8	511.5	516.2	521.0	525.8	438.0	350.4
117.5°	555.1	558.7	562.2	565.9	569.3	572.6	575.8	579.1	582.3	561.1	539.8
120°	599.3	602.1	604.9	607.8	610.9	614.3	617.8	621.2	624.6	626.9	629.1
122.5°	637.6	640.6	643.5	646.6	650.0	653.6	657.4	661.0	664.8	666.1	667.5
125°	695.2	697.7	700.1	702.6	705.6	709.2	712.8	716.4	720.0	721.3	722.6
127.5°	748.1	750.8	753.6	756.3	759.0	761.7	764.4	767.0	769.7	771.7	773.6
130°	781.9	784.9	787.8	790.9	793.4	795.5	797.6	799.7	801.8	803.9	805.9
132.5°	815.5	818.1	820.6	823.1	825.5	827.6	829.6	831.7	833.8	835.6	837.4
135°	860.2	863.3	866.3	869.3	871.6	873.3	875.0	876.7	878.5	880.4	882.3
137.5°	904.1	906.2	908.4	910.4	912.5	914.4	916.3	918.3	920.2	922.1	923.9
140°	932.8	934.3	935.9	937.4	939.1	941.2	943.3	945.4	947.5	949.2	950.9
142.5°	957.2	958.6	959.9	961.3	963.1	965.5	968.0	970.4	972.7	974.3	975.8
145°	994.2	994.0	993.8	993.6	995.1	998.4	1001.6	1004.8	1008.0	1009.3	1010.7
147.5°	1027.2	1026.4	1025.7	1025.0	1026.3	1029.5	1032.6	1035.8	1039.0	1040.0	1041.0
150°	1048.4	1047.0	1045.8	1044.5	1045.3	1048.3	1051.3	1054.4	1057.4	1058.5	1059.7
152.5°	1066.7	1065.1	1063.7	1062.2	1062.9	1065.8	1068.7	1071.6	1074.4	1075.6	1076.7
155°	1093.1	1091.5	1089.8	1088.1	1088.3	1090.7	1092.9	1095.2	1097.4	1098.6	1099.7
157.5°	1114.5	1112.9	1111.5	1110.1	1110.2	1111.8	1113.4	1114.9	1116.5	1117.8	1119.1
160°	1127.0	1125.9	1124.7	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1	1129.3	1130.4
162.5°	1137.9	1136.8	1135.6	1134.5	1134.4	1135.4	1136.4	1137.4	1138.4	1139.6	1140.9
165°	1152.5	1151.4	1150.3	1149.1	1148.9	1149.4	1150.0	1150.6	1151.1	1152.4	1153.8
167.5°	1163.4	1162.3	1161.2	1160.0	1159.8	1160.3	1160.8	1161.4	1161.9	1163.1	1164.5
170°	1169.6	1168.5	1167.3	1166.2	1165.8	1166.2	1166.5	1167.0	1167.3	1168.7	1170.0
172.5°	1173.7	1172.5	1171.4	1170.3	1169.9	1170.3	1170.6	1171.0	1171.4	1172.8	1174.0
175°	1178.8	1177.4	1176.2	1174.8	1174.3	1174.7	1175.1	1175.5	1175.8	1177.1	1178.5
177.5°	1179.9	1178.8	1177.8	1176.7	1176.3	1176.4	1176.5	1176.7	1176.9	1177.9	1179.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	603.3	605.5	606.5	606.5	607.6	607.1	606.6
5°	638.0	641.9	642.7	646.3	649.0	648.2	648.5
7.5°	672.5	678.7	684.8	687.6	688.0	689.6	690.3
10°	693.8	698.8	708.3	706.9	714.0	718.1	711.4
12.5°	714.2	721.0	727.6	729.4	733.4	734.8	732.1
15°	732.6	736.3	736.6	735.7	736.9	735.8	732.0
17.5°	715.4	709.4	697.5	691.8	687.3	680.6	678.0
20°	686.9	669.4	649.2	641.1	631.6	613.0	617.4
22.5°	625.3	605.5	585.1	561.5	550.2	532.5	531.5
25°	529.5	495.3	457.5	431.2	415.8	398.2	390.5
27.5°	411.7	368.5	337.7	322.1	307.8	293.9	293.3
30°	334.2	301.8	277.9	264.6	255.8	249.9	251.2
32.5°	281.7	259.5	243.3	232.3	225.9	221.4	221.3
35°	230.3	215.1	204.7	200.1	195.5	192.3	192.4
37.5°	197.1	188.0	182.2	177.1	174.2	172.5	171.7
40°	180.0	172.5	168.1	165.1	162.6	160.4	160.0
42.5°	166.7	160.4	156.0	153.6	151.3	149.7	149.4
45°	147.8	142.8	138.8	136.1	135.1	133.7	133.7
47.5°	131.5	126.5	123.4	121.7	120.0	119.0	119.0
50°	120.6	116.6	113.9	112.8	111.4	110.8	110.6
52.5°	110.7	107.7	105.8	105.0	104.4	103.7	103.8
55°	97.2	95.6	94.8	94.2	93.2	91.9	92.7
57.5°	86.0	84.5	82.4	80.4	79.5	78.6	79.0
60°	78.0	75.2	72.3	70.1	69.5	67.7	67.7
62.5°	67.9	63.9	60.5	59.2	58.6	57.8	57.6
65°	52.3	50.6	49.8	49.0	48.6	48.6	48.2
67.5°	43.3	42.6	41.7	41.6	41.2	41.0	40.9
70°	38.3	37.5	37.1	36.8	36.5	36.6	36.0
72.5°	33.4	32.8	32.7	32.2	31.9	31.9	31.5
75°	26.3	26.3	26.1	25.9	25.5	25.3	25.5
77.5°	20.2	20.3	20.0	19.9	19.9	19.9	19.7
80°	16.2	16.4	16.2	16.0	15.8	16.0	15.8
82.5°	12.8	12.5	12.5	12.4	12.4	12.3	12.2
85°	7.3	7.5	7.3	7.1	7.1	7.1	7.3
87.5°	6.7	7.0	7.0	7.1	7.2	7.3	7.2
90°	19.9	20.9	21.5	21.8	22.2	22.6	23.0
92.5°	21.2	21.8	22.1	22.3	22.6	22.7	23.0
95°	36.1	37.0	37.4	37.2	37.0	36.8	36.6
97.5°	46.7	47.5	48.0	48.2	48.4	48.7	48.9
100°	53.1	54.7	55.6	55.9	56.4	56.7	57.1
102.5°	55.8	57.8	59.0	59.6	60.1	60.6	61.2
105°	58.2	60.3	61.7	62.5	63.2	64.0	64.7
107.5°	66.4	64.3	63.6	64.4	65.1	65.9	66.6
110°	92.3	73.4	64.3	65.0	65.8	66.5	67.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	168.9	99.8	65.5	66.2	66.8	67.4	68.0
115°	262.7	175.0	124.4	110.8	97.1	83.5	69.9
117.5°	518.7	497.5	464.5	419.6	374.9	330.1	285.3
120°	631.3	633.6	622.0	596.5	570.9	545.3	519.8
122.5°	668.9	670.2	668.4	663.4	658.5	653.5	648.6
125°	724.0	725.3	726.2	726.8	727.4	727.9	728.5
127.5°	775.5	777.5	778.5	778.6	778.7	778.8	778.9
130°	808.1	810.1	811.1	810.8	810.7	810.5	810.3
132.5°	839.2	841.0	841.8	841.5	841.3	841.2	841.0
135°	884.1	886.0	886.8	886.4	886.0	885.6	885.3
137.5°	925.8	927.6	928.3	927.6	926.9	926.3	925.7
140°	952.6	954.3	954.7	953.8	952.8	951.8	950.9
142.5°	977.4	978.9	979.2	978.3	977.3	976.4	975.4
145°	1012.0	1013.3	1013.5	1012.5	1011.6	1010.7	1009.7
147.5°	1042.0	1042.9	1043.0	1042.2	1041.4	1040.6	1039.8
150°	1060.8	1061.9	1062.0	1061.1	1060.2	1059.2	1058.3
152.5°	1077.8	1079.0	1079.0	1077.7	1076.5	1075.2	1074.0
155°	1100.8	1102.0	1101.8	1100.3	1098.8	1097.3	1095.7
157.5°	1120.4	1121.7	1121.6	1120.1	1118.7	1117.1	1115.7
160°	1131.5	1132.7	1132.6	1131.2	1129.9	1128.6	1127.3
162.5°	1142.2	1143.5	1143.4	1141.7	1140.1	1138.4	1136.8
165°	1155.1	1156.5	1156.5	1155.1	1153.8	1152.4	1151.1
167.5°	1165.8	1167.2	1167.0	1165.3	1163.6	1161.9	1160.2
170°	1171.3	1172.6	1172.4	1170.7	1169.0	1167.3	1165.6
172.5°	1175.4	1176.7	1176.5	1174.8	1173.1	1171.4	1169.7
175°	1179.8	1181.2	1180.9	1178.9	1177.1	1175.2	1173.3
177.5°	1180.0	1181.1	1181.0	1179.6	1178.2	1176.9	1175.5
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5

(END OF REPORT)