

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: P331778-935

Luminaire Tested: **S122RDIW-S290D1240U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331778-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S290D1240U935-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

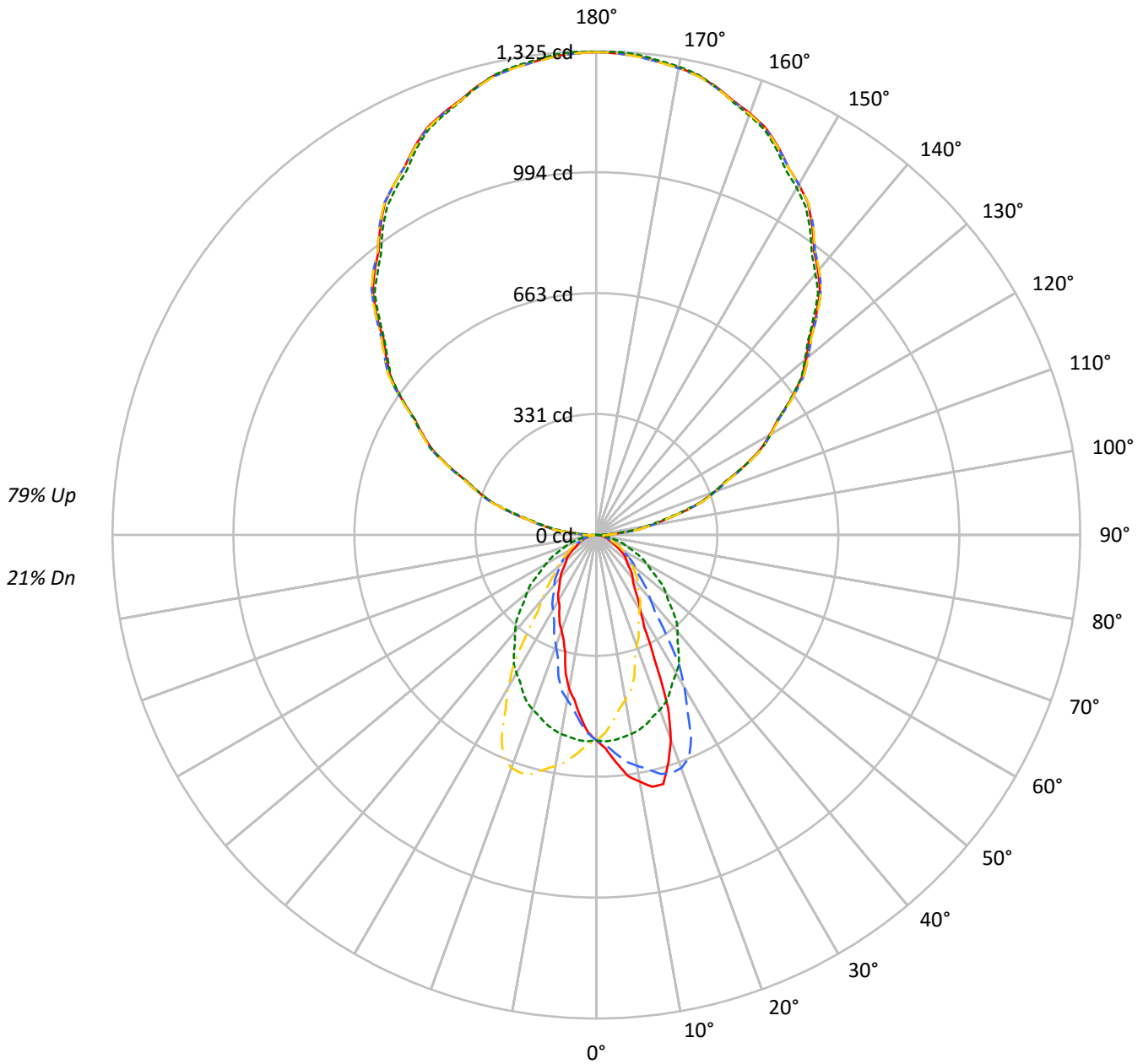
Lumens per Lamp: N/A  
Luminaire Lumens: 4677.2 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (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



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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

**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°	15.0	0.3
90°-100°	83.8	1.8
100°-110°	260.4	5.6
110°-120°	445.0	9.5
120°-130°	585.3	12.5
130°-140°	656.9	14.0
140°-150°	644.1	13.8
150°-160°	540.2	11.6
160°-170°	358.3	7.7
170°-180°	125.2	2.7
0°-30°	393.6	8.4
0°-40°	575.7	12.3
0°-60°	850.4	18.2
0°-90°	978.1	20.9
90°-120°	789.2	16.9
90°-150°	2675.4	57.2
90°-180°	3699.0	79.1
0°-180°	4677.2	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	9
90°	38	1	38	1	38	17
95°	69	58	69	58	69	77
105°	248	240	248	240	248	261
115°	447	447	447	447	447	441
125°	652	650	652	650	652	581
135°	851	841	851	841	851	655
145°	1032	1020	1032	1020	1032	644
155°	1176	1167	1176	1167	1176	541
165°	1270	1269	1270	1269	1270	358
175°	1316	1321	1316	1321	1316	125
180°	1323	1323	1323	1323	1323	



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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°	10.1	10.2	10.2	10.1	10.1	10.1	10.2	10.4	10.4	10.6	9.4
90°	38.0	37.7	37.5	37.2	36.9	37.1	37.6	38.1	38.6	39.1	33.6
92.5°	36.2	36.2	36.1	36.0	36.0	35.9	35.8	35.7	35.6	35.5	34.2
95°	69.2	69.7	70.2	70.7	71.2	71.5	71.5	71.5	71.5	71.5	70.9
97.5°	119.9	119.9	120.0	120.0	120.1	120.1	120.1	120.1	120.1	120.1	119.2
100°	152.9	153.2	153.4	153.7	153.9	154.0	154.0	154.0	154.0	154.0	153.3
102.5°	190.5	190.7	191.0	191.2	191.5	191.5	191.3	191.1	190.9	190.7	189.8
105°	247.9	247.9	247.9	247.9	247.9	247.6	247.1	246.6	246.1	245.6	245.1
107.5°	301.9	303.0	304.2	305.3	306.4	306.9	306.7	306.5	306.3	306.1	306.1
110°	343.9	344.6	345.3	346.1	346.8	347.2	347.2	347.2	347.2	347.2	347.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	384.0	384.6	385.1	385.6	386.2	386.8	387.4	388.0	388.6	389.2	389.3
115°	446.6	447.3	448.1	448.8	449.5	450.0	450.3	450.6	450.8	451.0	451.5
117.5°	506.2	507.0	507.6	508.4	509.2	509.8	510.4	511.0	511.6	512.2	513.6
120°	548.2	548.9	549.7	550.4	551.1	551.5	551.5	551.5	551.5	551.5	553.5
122.5°	589.3	589.8	590.3	590.9	591.4	592.0	592.6	593.2	593.7	594.3	595.7
125°	651.9	652.2	652.5	652.7	653.0	653.5	654.2	655.0	655.7	656.4	657.2
127.5°	709.1	710.0	710.8	711.5	712.3	713.2	714.0	715.0	715.8	716.7	717.6
130°	750.2	751.2	752.3	753.2	754.2	754.9	755.4	756.0	756.4	756.9	757.4
132.5°	789.5	790.3	791.1	791.9	792.7	793.7	794.7	795.8	796.9	798.0	797.9
135°	850.7	851.4	852.2	852.9	853.7	854.2	854.5	854.7	854.9	855.1	854.7
137.5°	906.1	907.1	908.1	909.0	910.1	910.7	910.9	911.0	911.3	911.5	910.8
140°	944.5	945.5	946.5	947.4	948.5	948.9	948.9	948.9	948.9	948.9	947.7
142.5°	979.3	980.3	981.3	982.3	983.3	983.7	983.5	983.3	983.1	982.9	982.1
145°	1031.6	1032.6	1033.5	1034.6	1035.5	1035.9	1035.7	1035.4	1035.2	1034.9	1033.5
147.5°	1078.2	1079.2	1080.1	1081.1	1082.0	1082.2	1081.7	1081.1	1080.6	1080.0	1079.0
150°	1108.6	1109.3	1110.1	1110.9	1111.6	1111.6	1110.9	1110.1	1109.3	1108.6	1107.6
152.5°	1137.2	1138.2	1139.1	1140.0	1140.9	1140.9	1140.0	1139.1	1138.2	1137.2	1136.0
155°	1175.6	1176.3	1177.1	1177.8	1178.5	1178.3	1177.1	1175.9	1174.6	1173.4	1172.6
157.5°	1208.6	1209.8	1211.0	1212.2	1213.4	1213.1	1211.4	1209.8	1208.1	1206.4	1205.9
160°	1229.2	1230.2	1231.1	1232.2	1233.1	1232.9	1231.4	1229.9	1228.4	1226.9	1226.7
162.5°	1247.1	1248.2	1249.4	1250.6	1251.8	1251.5	1249.8	1248.2	1246.5	1244.8	1244.6
165°	1270.5	1271.7	1273.0	1274.2	1275.4	1275.2	1273.4	1271.7	1270.0	1268.3	1268.3
167.5°	1289.7	1291.0	1292.3	1293.6	1294.9	1294.6	1292.9	1291.2	1289.4	1287.6	1287.7
170°	1299.5	1301.0	1302.5	1304.0	1305.4	1305.4	1303.6	1301.8	1300.1	1298.4	1298.6
172.5°	1307.5	1309.1	1310.5	1312.0	1313.5	1313.4	1311.6	1309.9	1308.2	1306.4	1306.7
175°	1316.2	1317.8	1319.2	1320.7	1322.2	1322.1	1320.3	1318.6	1316.9	1315.1	1315.6
177.5°	1320.3	1321.5	1322.7	1323.9	1325.0	1325.0	1323.9	1322.7	1321.5	1320.3	1320.7
180°	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9



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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°	8.3	7.3	6.3	5.3	4.8	4.4	4.6	4.7	4.7	4.8	5.2
90°	28.2	22.7	17.2	13.0	10.1	7.1	4.1	1.1	4.1	7.1	10.1
92.5°	32.9	31.6	30.3	28.6	26.4	24.3	22.0	19.9	22.0	24.3	26.4
95°	70.4	70.0	69.5	68.0	65.5	63.0	60.5	58.0	60.5	63.0	65.5
97.5°	118.2	117.3	116.3	114.8	112.6	110.5	108.2	106.1	108.2	110.5	112.6
100°	152.6	151.8	151.1	149.7	147.7	145.8	143.8	141.8	143.8	145.8	147.7
102.5°	188.8	187.9	186.9	185.6	184.1	182.4	180.9	179.3	180.9	182.4	184.1
105°	244.6	244.1	243.7	243.0	242.3	241.5	240.7	240.0	240.7	241.5	242.3
107.5°	306.1	306.1	306.1	305.6	304.4	303.4	302.3	301.2	302.3	303.4	304.4
110°	347.2	347.2	347.2	346.5	345.0	343.5	342.0	340.5	342.0	343.5	345.0





TEST NUMBER: P331778-935

CATALOG NUMBER: S122RDIW-S290D1240U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	389.6	389.8	389.9	389.3	387.9	386.3	384.9	383.4	384.9	386.3	387.9
115°	452.0	452.5	453.0	452.5	451.0	449.5	448.1	446.6	448.1	449.5	451.0
117.5°	515.0	516.3	517.8	517.5	515.5	513.5	511.5	509.5	511.5	513.5	515.5
120°	555.5	557.5	559.5	559.5	557.5	555.5	553.5	551.5	553.5	555.5	557.5
122.5°	597.2	598.6	599.9	599.4	597.0	594.7	592.3	589.9	592.3	594.7	597.0
125°	658.0	658.7	659.4	658.7	656.4	654.2	651.9	649.7	651.9	654.2	656.4
127.5°	718.5	719.5	720.3	719.4	716.5	713.7	710.8	708.0	710.8	713.7	716.5
130°	757.9	758.5	758.9	757.5	754.3	751.1	747.9	744.7	747.9	751.1	754.3
132.5°	797.8	797.7	797.6	796.3	793.6	791.0	788.3	785.7	788.3	791.0	793.6
135°	854.2	853.7	853.2	851.6	848.9	846.1	843.3	840.7	843.3	846.1	848.9
137.5°	910.2	909.5	908.9	907.4	905.2	902.9	900.7	898.5	900.7	902.9	905.2
140°	946.5	945.2	944.0	942.3	940.0	937.8	935.6	933.3	935.6	937.8	940.0
142.5°	981.2	980.3	979.5	978.0	975.8	973.5	971.3	969.1	971.3	973.5	975.8
145°	1031.9	1030.4	1029.0	1027.3	1025.6	1023.9	1022.2	1020.4	1022.2	1023.9	1025.6
147.5°	1078.1	1077.0	1076.1	1074.5	1072.5	1070.3	1068.2	1066.2	1068.2	1070.3	1072.5
150°	1106.6	1105.6	1104.7	1103.4	1101.9	1100.4	1098.9	1097.4	1098.9	1100.4	1101.9
152.5°	1134.8	1133.6	1132.4	1131.1	1129.5	1128.1	1126.6	1125.2	1126.6	1128.1	1129.5
155°	1171.8	1171.1	1170.4	1169.7	1168.9	1168.1	1167.4	1166.7	1167.4	1168.1	1168.9
157.5°	1205.5	1205.1	1204.6	1204.1	1203.7	1203.2	1202.6	1202.1	1202.6	1203.2	1203.7
160°	1226.4	1226.2	1226.0	1225.5	1225.1	1224.6	1224.1	1223.6	1224.1	1224.6	1225.1
162.5°	1244.3	1244.1	1243.8	1243.6	1243.5	1243.5	1243.4	1243.2	1243.4	1243.5	1243.5
165°	1268.3	1268.3	1268.3	1268.3	1268.6	1268.9	1269.1	1269.4	1269.1	1268.9	1268.6
167.5°	1287.8	1287.8	1287.9	1288.2	1289.0	1289.8	1290.5	1291.2	1290.5	1289.8	1289.0
170°	1298.9	1299.2	1299.4	1299.9	1300.6	1301.4	1302.1	1302.9	1302.1	1301.4	1300.6
172.5°	1306.9	1307.2	1307.4	1307.9	1308.6	1309.4	1310.2	1310.9	1310.2	1309.4	1308.6
175°	1316.1	1316.6	1317.2	1317.8	1318.4	1319.2	1320.0	1320.7	1320.0	1319.2	1318.4
177.5°	1321.0	1321.5	1321.9	1322.3	1322.9	1323.5	1324.1	1324.7	1324.1	1323.5	1322.9
180°	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9



TEST NUMBER: P331778-935

CATALOG NUMBER: S122RDIW-S290D1240U935-4F0-1E-UDD-A1

**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°	5.6	6.3	7.1	8.1	9.2	10.2	10.1	9.8	9.7	9.6	9.4
90°	13.0	17.2	22.7	28.2	33.6	39.1	38.6	38.1	37.6	37.1	36.9
92.5°	28.6	30.3	31.6	32.9	34.2	35.5	35.6	35.7	35.8	35.9	36.0
95°	68.0	69.5	70.0	70.4	70.9	71.5	71.5	71.5	71.5	71.5	71.2
97.5°	114.8	116.3	117.3	118.2	119.2	120.1	120.1	120.1	120.1	120.1	120.1
100°	149.7	151.1	151.8	152.6	153.3	154.0	154.0	154.0	154.0	154.0	153.9
102.5°	185.6	186.9	187.9	188.8	189.8	190.7	190.9	191.1	191.3	191.5	191.5
105°	243.0	243.7	244.1	244.6	245.1	245.6	246.1	246.6	247.1	247.6	247.9
107.5°	305.6	306.1	306.1	306.1	306.1	306.1	306.3	306.5	306.7	306.9	306.4
110°	346.5	347.2	347.2	347.2	347.2	347.2	347.2	347.2	347.2	347.2	346.8



TEST NUMBER: P331778-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	389.3	389.9	389.8	389.6	389.3	389.2	388.6	388.0	387.4	386.8	386.2
115°	452.5	453.0	452.5	452.0	451.5	451.0	450.8	450.6	450.3	450.0	449.5
117.5°	517.5	517.8	516.3	515.0	513.6	512.2	511.6	511.0	510.4	509.8	509.2
120°	559.5	559.5	557.5	555.5	553.5	551.5	551.5	551.5	551.5	551.5	551.1
122.5°	599.4	599.9	598.6	597.2	595.7	594.3	593.7	593.2	592.6	592.0	591.4
125°	658.7	659.4	658.7	658.0	657.2	656.4	655.7	655.0	654.2	653.5	653.0
127.5°	719.4	720.3	719.5	718.5	717.6	716.7	715.8	715.0	714.0	713.2	712.3
130°	757.5	758.9	758.5	757.9	757.4	756.9	756.4	756.0	755.4	754.9	754.2
132.5°	796.3	797.6	797.7	797.8	797.9	798.0	796.9	795.8	794.7	793.7	792.7
135°	851.6	853.2	853.7	854.2	854.7	855.1	854.9	854.7	854.5	854.2	853.7
137.5°	907.4	908.9	909.5	910.2	910.8	911.5	911.3	911.0	910.9	910.7	910.1
140°	942.3	944.0	945.2	946.5	947.7	948.9	948.9	948.9	948.9	948.9	948.5
142.5°	978.0	979.5	980.3	981.2	982.1	982.9	983.1	983.3	983.5	983.7	983.3
145°	1027.3	1029.0	1030.4	1031.9	1033.5	1034.9	1035.2	1035.4	1035.7	1035.9	1035.5
147.5°	1074.5	1076.1	1077.0	1078.1	1079.0	1080.0	1080.6	1081.1	1081.7	1082.2	1082.0
150°	1103.4	1104.7	1105.6	1106.6	1107.6	1108.6	1109.3	1110.1	1110.9	1111.6	1111.6
152.5°	1131.1	1132.4	1133.6	1134.8	1136.0	1137.2	1138.2	1139.1	1140.0	1140.9	1140.9
155°	1169.7	1170.4	1171.1	1171.8	1172.6	1173.4	1174.6	1175.9	1177.1	1178.3	1178.5
157.5°	1204.1	1204.6	1205.1	1205.5	1205.9	1206.4	1208.1	1209.8	1211.4	1213.1	1213.4
160°	1225.5	1226.0	1226.2	1226.4	1226.7	1226.9	1228.4	1229.9	1231.4	1232.9	1233.1
162.5°	1243.6	1243.8	1244.1	1244.3	1244.6	1244.8	1246.5	1248.2	1249.8	1251.5	1251.8
165°	1268.3	1268.3	1268.3	1268.3	1268.3	1268.3	1270.0	1271.7	1273.4	1275.2	1275.4
167.5°	1288.2	1287.9	1287.8	1287.8	1287.7	1287.6	1289.4	1291.2	1292.9	1294.6	1294.9
170°	1299.9	1299.4	1299.2	1298.9	1298.6	1298.4	1300.1	1301.8	1303.6	1305.4	1305.4
172.5°	1307.9	1307.4	1307.2	1306.9	1306.7	1306.4	1308.2	1309.9	1311.6	1313.4	1313.5
175°	1317.8	1317.2	1316.6	1316.1	1315.6	1315.1	1316.9	1318.6	1320.3	1322.1	1322.2
177.5°	1322.3	1321.9	1321.5	1321.0	1320.7	1320.3	1321.5	1322.7	1323.9	1325.0	1325.0
180°	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9



TEST NUMBER: P331778-935

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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°	9.5	9.4	9.6	9.5	9.6	9.4	9.5	9.4	9.6	9.7	9.8
90°	37.2	37.5	37.7	38.0	37.7	37.5	37.2	36.9	37.1	37.6	38.1
92.5°	36.0	36.1	36.2	36.2	36.2	36.1	36.0	36.0	35.9	35.8	35.7
95°	70.7	70.2	69.7	69.2	69.7	70.2	70.7	71.2	71.5	71.5	71.5
97.5°	120.0	120.0	119.9	119.9	119.9	120.0	120.0	120.1	120.1	120.1	120.1
100°	153.7	153.4	153.2	152.9	153.2	153.4	153.7	153.9	154.0	154.0	154.0
102.5°	191.2	191.0	190.7	190.5	190.7	191.0	191.2	191.5	191.5	191.3	191.1
105°	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.9	247.6	247.1	246.6
107.5°	305.3	304.2	303.0	301.9	303.0	304.2	305.3	306.4	306.9	306.7	306.5
110°	346.1	345.3	344.6	343.9	344.6	345.3	346.1	346.8	347.2	347.2	347.2



TEST NUMBER: P331778-935

CATALOG NUMBER: S122RDIW-S290D1240U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	385.6	385.1	384.6	384.0	384.6	385.1	385.6	386.2	386.8	387.4	388.0
115°	448.8	448.1	447.3	446.6	447.3	448.1	448.8	449.5	450.0	450.3	450.6
117.5°	508.4	507.6	507.0	506.2	507.0	507.6	508.4	509.2	509.8	510.4	511.0
120°	550.4	549.7	548.9	548.2	548.9	549.7	550.4	551.1	551.5	551.5	551.5
122.5°	590.9	590.3	589.8	589.3	589.8	590.3	590.9	591.4	592.0	592.6	593.2
125°	652.7	652.5	652.2	651.9	652.2	652.5	652.7	653.0	653.5	654.2	655.0
127.5°	711.5	710.8	710.0	709.1	710.0	710.8	711.5	712.3	713.2	714.0	715.0
130°	753.2	752.3	751.2	750.2	751.2	752.3	753.2	754.2	754.9	755.4	756.0
132.5°	791.9	791.1	790.3	789.5	790.3	791.1	791.9	792.7	793.7	794.7	795.8
135°	852.9	852.2	851.4	850.7	851.4	852.2	852.9	853.7	854.2	854.5	854.7
137.5°	909.0	908.1	907.1	906.1	907.1	908.1	909.0	910.1	910.7	910.9	911.0
140°	947.4	946.5	945.5	944.5	945.5	946.5	947.4	948.5	948.9	948.9	948.9
142.5°	982.3	981.3	980.3	979.3	980.3	981.3	982.3	983.3	983.7	983.5	983.3
145°	1034.6	1033.5	1032.6	1031.6	1032.6	1033.5	1034.6	1035.5	1035.9	1035.7	1035.4
147.5°	1081.1	1080.1	1079.2	1078.2	1079.2	1080.1	1081.1	1082.0	1082.2	1081.7	1081.1
150°	1110.9	1110.1	1109.3	1108.6	1109.3	1110.1	1110.9	1111.6	1111.6	1110.9	1110.1
152.5°	1140.0	1139.1	1138.2	1137.2	1138.2	1139.1	1140.0	1140.9	1140.9	1140.0	1139.1
155°	1177.8	1177.1	1176.3	1175.6	1176.3	1177.1	1177.8	1178.5	1178.3	1177.1	1175.9
157.5°	1212.2	1211.0	1209.8	1208.6	1209.8	1211.0	1212.2	1213.4	1213.1	1211.4	1209.8
160°	1232.2	1231.1	1230.2	1229.2	1230.2	1231.1	1232.2	1233.1	1232.9	1231.4	1229.9
162.5°	1250.6	1249.4	1248.2	1247.1	1248.2	1249.4	1250.6	1251.8	1251.5	1249.8	1248.2
165°	1274.2	1273.0	1271.7	1270.5	1271.7	1273.0	1274.2	1275.4	1275.2	1273.4	1271.7
167.5°	1293.6	1292.3	1291.0	1289.7	1291.0	1292.3	1293.6	1294.9	1294.6	1292.9	1291.2
170°	1304.0	1302.5	1301.0	1299.5	1301.0	1302.5	1304.0	1305.4	1305.4	1303.6	1301.8
172.5°	1312.0	1310.5	1309.1	1307.5	1309.1	1310.5	1312.0	1313.5	1313.4	1311.6	1309.9
175°	1320.7	1319.2	1317.8	1316.2	1317.8	1319.2	1320.7	1322.2	1322.1	1320.3	1318.6
177.5°	1323.9	1322.7	1321.5	1320.3	1321.5	1322.7	1323.9	1325.0	1325.0	1323.9	1322.7
180°	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9



TEST NUMBER: P331778-935

CATALOG NUMBER: S122RDIW-S290D1240U935-4F0-1E-UDD-A1

**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°	10.1	10.2	9.2	8.1	7.1	6.3	5.6	5.2	4.8	4.7	4.7
90°	38.6	39.1	33.6	28.2	22.7	17.2	13.0	10.1	7.1	4.1	1.1
92.5°	35.6	35.5	34.2	32.9	31.6	30.3	28.6	26.4	24.3	22.0	19.9
95°	71.5	71.5	70.9	70.4	70.0	69.5	68.0	65.5	63.0	60.5	58.0
97.5°	120.1	120.1	119.2	118.2	117.3	116.3	114.8	112.6	110.5	108.2	106.1
100°	154.0	154.0	153.3	152.6	151.8	151.1	149.7	147.7	145.8	143.8	141.8
102.5°	190.9	190.7	189.8	188.8	187.9	186.9	185.6	184.1	182.4	180.9	179.3
105°	246.1	245.6	245.1	244.6	244.1	243.7	243.0	242.3	241.5	240.7	240.0
107.5°	306.3	306.1	306.1	306.1	306.1	306.1	305.6	304.4	303.4	302.3	301.2
110°	347.2	347.2	347.2	347.2	347.2	347.2	346.5	345.0	343.5	342.0	340.5



TEST NUMBER: P331778-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	388.6	389.2	389.3	389.6	389.8	389.9	389.3	387.9	386.3	384.9	383.4
115°	450.8	451.0	451.5	452.0	452.5	453.0	452.5	451.0	449.5	448.1	446.6
117.5°	511.6	512.2	513.6	515.0	516.3	517.8	517.5	515.5	513.5	511.5	509.5
120°	551.5	551.5	553.5	555.5	557.5	559.5	559.5	557.5	555.5	553.5	551.5
122.5°	593.7	594.3	595.7	597.2	598.6	599.9	599.4	597.0	594.7	592.3	589.9
125°	655.7	656.4	657.2	658.0	658.7	659.4	658.7	656.4	654.2	651.9	649.7
127.5°	715.8	716.7	717.6	718.5	719.5	720.3	719.4	716.5	713.7	710.8	708.0
130°	756.4	756.9	757.4	757.9	758.5	758.9	757.5	754.3	751.1	747.9	744.7
132.5°	796.9	798.0	797.9	797.8	797.7	797.6	796.3	793.6	791.0	788.3	785.7
135°	854.9	855.1	854.7	854.2	853.7	853.2	851.6	848.9	846.1	843.3	840.7
137.5°	911.3	911.5	910.8	910.2	909.5	908.9	907.4	905.2	902.9	900.7	898.5
140°	948.9	948.9	947.7	946.5	945.2	944.0	942.3	940.0	937.8	935.6	933.3
142.5°	983.1	982.9	982.1	981.2	980.3	979.5	978.0	975.8	973.5	971.3	969.1
145°	1035.2	1034.9	1033.5	1031.9	1030.4	1029.0	1027.3	1025.6	1023.9	1022.2	1020.4
147.5°	1080.6	1080.0	1079.0	1078.1	1077.0	1076.1	1074.5	1072.5	1070.3	1068.2	1066.2
150°	1109.3	1108.6	1107.6	1106.6	1105.6	1104.7	1103.4	1101.9	1100.4	1098.9	1097.4
152.5°	1138.2	1137.2	1136.0	1134.8	1133.6	1132.4	1131.1	1129.5	1128.1	1126.6	1125.2
155°	1174.6	1173.4	1172.6	1171.8	1171.1	1170.4	1169.7	1168.9	1168.1	1167.4	1166.7
157.5°	1208.1	1206.4	1205.9	1205.5	1205.1	1204.6	1204.1	1203.7	1203.2	1202.6	1202.1
160°	1228.4	1226.9	1226.7	1226.4	1226.2	1226.0	1225.5	1225.1	1224.6	1224.1	1223.6
162.5°	1246.5	1244.8	1244.6	1244.3	1244.1	1243.8	1243.6	1243.5	1243.5	1243.4	1243.2
165°	1270.0	1268.3	1268.3	1268.3	1268.3	1268.3	1268.3	1268.6	1268.9	1269.1	1269.4
167.5°	1289.4	1287.6	1287.7	1287.8	1287.8	1287.9	1288.2	1289.0	1289.8	1290.5	1291.2
170°	1300.1	1298.4	1298.6	1298.9	1299.2	1299.4	1299.9	1300.6	1301.4	1302.1	1302.9
172.5°	1308.2	1306.4	1306.7	1306.9	1307.2	1307.4	1307.9	1308.6	1309.4	1310.2	1310.9
175°	1316.9	1315.1	1315.6	1316.1	1316.6	1317.2	1317.8	1318.4	1319.2	1320.0	1320.7
177.5°	1321.5	1320.3	1320.7	1321.0	1321.5	1321.9	1322.3	1322.9	1323.5	1324.1	1324.7
180°	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9



TEST NUMBER: P331778-935

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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°	4.6	4.4	4.8	5.3	6.3	7.3	8.3	9.4	10.6	10.4	10.4
90°	4.1	7.1	10.1	13.0	17.2	22.7	28.2	33.6	39.1	38.6	38.1
92.5°	22.0	24.3	26.4	28.6	30.3	31.6	32.9	34.2	35.5	35.6	35.7
95°	60.5	63.0	65.5	68.0	69.5	70.0	70.4	70.9	71.5	71.5	71.5
97.5°	108.2	110.5	112.6	114.8	116.3	117.3	118.2	119.2	120.1	120.1	120.1
100°	143.8	145.8	147.7	149.7	151.1	151.8	152.6	153.3	154.0	154.0	154.0
102.5°	180.9	182.4	184.1	185.6	186.9	187.9	188.8	189.8	190.7	190.9	191.1
105°	240.7	241.5	242.3	243.0	243.7	244.1	244.6	245.1	245.6	246.1	246.6
107.5°	302.3	303.4	304.4	305.6	306.1	306.1	306.1	306.1	306.1	306.3	306.5
110°	342.0	343.5	345.0	346.5	347.2	347.2	347.2	347.2	347.2	347.2	347.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	384.9	386.3	387.9	389.3	389.9	389.8	389.6	389.3	389.2	388.6	388.0
115°	448.1	449.5	451.0	452.5	453.0	452.5	452.0	451.5	451.0	450.8	450.6
117.5°	511.5	513.5	515.5	517.5	517.8	516.3	515.0	513.6	512.2	511.6	511.0
120°	553.5	555.5	557.5	559.5	559.5	557.5	555.5	553.5	551.5	551.5	551.5
122.5°	592.3	594.7	597.0	599.4	599.9	598.6	597.2	595.7	594.3	593.7	593.2
125°	651.9	654.2	656.4	658.7	659.4	658.7	658.0	657.2	656.4	655.7	655.0
127.5°	710.8	713.7	716.5	719.4	720.3	719.5	718.5	717.6	716.7	715.8	715.0
130°	747.9	751.1	754.3	757.5	758.9	758.5	757.9	757.4	756.9	756.4	756.0
132.5°	788.3	791.0	793.6	796.3	797.6	797.7	797.8	797.9	798.0	796.9	795.8
135°	843.3	846.1	848.9	851.6	853.2	853.7	854.2	854.7	855.1	854.9	854.7
137.5°	900.7	902.9	905.2	907.4	908.9	909.5	910.2	910.8	911.5	911.3	911.0
140°	935.6	937.8	940.0	942.3	944.0	945.2	946.5	947.7	948.9	948.9	948.9
142.5°	971.3	973.5	975.8	978.0	979.5	980.3	981.2	982.1	982.9	983.1	983.3
145°	1022.2	1023.9	1025.6	1027.3	1029.0	1030.4	1031.9	1033.5	1034.9	1035.2	1035.4
147.5°	1068.2	1070.3	1072.5	1074.5	1076.1	1077.0	1078.1	1079.0	1080.0	1080.6	1081.1
150°	1098.9	1100.4	1101.9	1103.4	1104.7	1105.6	1106.6	1107.6	1108.6	1109.3	1110.1
152.5°	1126.6	1128.1	1129.5	1131.1	1132.4	1133.6	1134.8	1136.0	1137.2	1138.2	1139.1
155°	1167.4	1168.1	1168.9	1169.7	1170.4	1171.1	1171.8	1172.6	1173.4	1174.6	1175.9
157.5°	1202.6	1203.2	1203.7	1204.1	1204.6	1205.1	1205.5	1205.9	1206.4	1208.1	1209.8
160°	1224.1	1224.6	1225.1	1225.5	1226.0	1226.2	1226.4	1226.7	1226.9	1228.4	1229.9
162.5°	1243.4	1243.5	1243.5	1243.6	1243.8	1244.1	1244.3	1244.6	1244.8	1246.5	1248.2
165°	1269.1	1268.9	1268.6	1268.3	1268.3	1268.3	1268.3	1268.3	1268.3	1270.0	1271.7
167.5°	1290.5	1289.8	1289.0	1288.2	1287.9	1287.8	1287.8	1287.7	1287.6	1289.4	1291.2
170°	1302.1	1301.4	1300.6	1299.9	1299.4	1299.2	1298.9	1298.6	1298.4	1300.1	1301.8
172.5°	1310.2	1309.4	1308.6	1307.9	1307.4	1307.2	1306.9	1306.7	1306.4	1308.2	1309.9
175°	1320.0	1319.2	1318.4	1317.8	1317.2	1316.6	1316.1	1315.6	1315.1	1316.9	1318.6
177.5°	1324.1	1323.5	1322.9	1322.3	1321.9	1321.5	1321.0	1320.7	1320.3	1321.5	1322.7
180°	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9



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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°	10.2	10.1	10.1	10.1	10.2	10.2	10.1
90°	37.6	37.1	36.9	37.2	37.5	37.7	38.0
92.5°	35.8	35.9	36.0	36.0	36.1	36.2	36.2
95°	71.5	71.5	71.2	70.7	70.2	69.7	69.2
97.5°	120.1	120.1	120.1	120.0	120.0	119.9	119.9
100°	154.0	154.0	153.9	153.7	153.4	153.2	152.9
102.5°	191.3	191.5	191.5	191.2	191.0	190.7	190.5
105°	247.1	247.6	247.9	247.9	247.9	247.9	247.9
107.5°	306.7	306.9	306.4	305.3	304.2	303.0	301.9
110°	347.2	347.2	346.8	346.1	345.3	344.6	343.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	387.4	386.8	386.2	385.6	385.1	384.6	384.0
115°	450.3	450.0	449.5	448.8	448.1	447.3	446.6
117.5°	510.4	509.8	509.2	508.4	507.6	507.0	506.2
120°	551.5	551.5	551.1	550.4	549.7	548.9	548.2
122.5°	592.6	592.0	591.4	590.9	590.3	589.8	589.3
125°	654.2	653.5	653.0	652.7	652.5	652.2	651.9
127.5°	714.0	713.2	712.3	711.5	710.8	710.0	709.1
130°	755.4	754.9	754.2	753.2	752.3	751.2	750.2
132.5°	794.7	793.7	792.7	791.9	791.1	790.3	789.5
135°	854.5	854.2	853.7	852.9	852.2	851.4	850.7
137.5°	910.9	910.7	910.1	909.0	908.1	907.1	906.1
140°	948.9	948.9	948.5	947.4	946.5	945.5	944.5
142.5°	983.5	983.7	983.3	982.3	981.3	980.3	979.3
145°	1035.7	1035.9	1035.5	1034.6	1033.5	1032.6	1031.6
147.5°	1081.7	1082.2	1082.0	1081.1	1080.1	1079.2	1078.2
150°	1110.9	1111.6	1111.6	1110.9	1110.1	1109.3	1108.6
152.5°	1140.0	1140.9	1140.9	1140.0	1139.1	1138.2	1137.2
155°	1177.1	1178.3	1178.5	1177.8	1177.1	1176.3	1175.6
157.5°	1211.4	1213.1	1213.4	1212.2	1211.0	1209.8	1208.6
160°	1231.4	1232.9	1233.1	1232.2	1231.1	1230.2	1229.2
162.5°	1249.8	1251.5	1251.8	1250.6	1249.4	1248.2	1247.1
165°	1273.4	1275.2	1275.4	1274.2	1273.0	1271.7	1270.5
167.5°	1292.9	1294.6	1294.9	1293.6	1292.3	1291.0	1289.7
170°	1303.6	1305.4	1305.4	1304.0	1302.5	1301.0	1299.5
172.5°	1311.6	1313.4	1313.5	1312.0	1310.5	1309.1	1307.5
175°	1320.3	1322.1	1322.2	1320.7	1319.2	1317.8	1316.2
177.5°	1323.9	1325.0	1325.0	1323.9	1322.7	1321.5	1320.3
180°	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)