

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: P332403-930

Luminaire Tested: **S123RDIW-S340D1320U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332403-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S340D1320U930-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4838.3 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

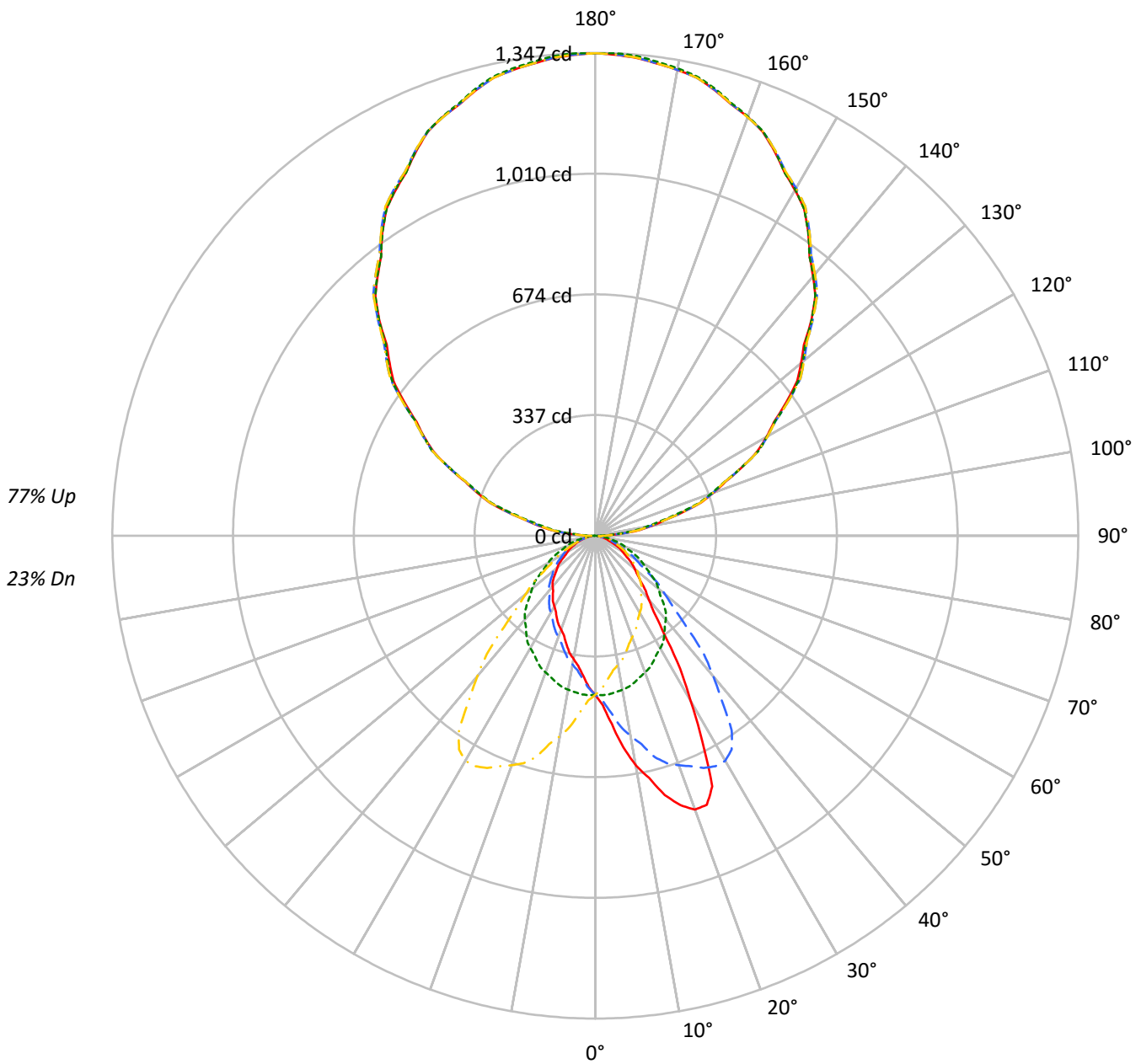
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	71	67	74	69	64	60	53	50	47	38	36	35	25	24	23	17
3	77	68	61	56	68	61	55	50	47	43	40	34	32	30	22	21	20	15
4	70	60	53	47	62	54	47	43	42	37	34	30	28	25	20	19	17	13
5	64	53	46	40	57	48	41	37	37	33	29	27	24	22	18	16	15	11
6	59	48	40	35	52	43	36	32	33	29	25	25	22	19	17	15	13	10
7	55	43	36	30	48	39	32	28	30	26	22	22	19	17	15	13	12	9
8	51	39	32	27	45	35	29	24	28	23	20	21	17	15	14	12	11	8
9	47	35	28	24	42	32	26	22	25	21	18	19	16	14	13	11	10	7
10	44	32	26	21	39	29	23	19	23	19	16	17	14	12	12	10	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4776	4776	4776	4776
5°	5693	4796	4224	4796
10°	7109	4769	3816	4769
15°	8344	4719	3480	4719
20°	9313	4647	3194	4647
25°	9164	4570	3018	4570
30°	6586	4501	2838	4501
35°	4398	4407	2720	4407
40°	3240	4297	2599	4297
45°	2719	4102	2481	4102
50°	2398	3848	2316	3848
55°	2104	3558	2089	3558
60°	1873	3279	1914	3279
65°	1645	2980	1780	2980
70°	1290	2716	1627	2716
75°	1135	2371	1485	2371
80°	992	2008	1463	2008
85°	790	1618	1556	1618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.6	0.9
10°-20°	136.3	2.8
20°-30°	214.2	4.4
30°-40°	223.4	4.6
40°-50°	191.2	4.0
50°-60°	145.7	3.0
60°-70°	93.4	1.9
70°-80°	44.9	0.9
80°-90°	15.9	0.3
90°-100°	87.7	1.8
100°-110°	262.5	5.4
110°-120°	446.4	9.2
120°-130°	587.2	12.1
130°-140°	660.0	13.6
140°-150°	648.8	13.4
150°-160°	546.2	11.3
160°-170°	363.6	7.5
170°-180°	127.3	2.6
0°-30°	394.1	8.1
0°-40°	617.6	12.8
0°-60°	954.5	19.7
0°-90°	1108.8	22.9
90°-120°	796.6	16.5
90°-150°	2692.5	55.7
90°-180°	3730.0	77.1
0°-180°	4838.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	444	444	444	444	444	
5°	527	444	391	444	527	54
15°	749	424	312	424	749	212
25°	772	385	254	385	772	332
35°	335	335	207	335	335	219
45°	179	270	163	270	179	140
55°	112	190	111	190	112	101
65°	65	117	70	117	65	64
75°	27	57	36	57	27	29
85°	6	13	13	13	6	8
90°	32	1	32	1	32	16
95°	82	62	82	62	82	85
105°	252	238	252	238	252	267
115°	450	449	450	449	450	446
125°	650	658	650	658	650	581
135°	852	853	852	853	852	655
145°	1035	1035	1035	1035	1035	646
155°	1183	1185	1183	1185	1183	545
165°	1287	1291	1287	1291	1287	363
175°	1338	1343	1338	1343	1338	127
180°	1346	1346	1346	1346	1346	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	472.6	473.2	471.2	470.9	468.6	468.1	468.1	464.8	462.8	460.3	458.8
5°	526.9	529.9	528.4	525.1	519.3	518.0	514.4	508.7	502.2	494.2	490.5
7.5°	594.8	598.9	597.3	592.1	586.0	581.2	571.0	561.6	548.4	536.7	526.8
10°	650.4	646.0	642.6	637.5	631.9	623.1	612.4	597.8	580.9	567.5	552.8
12.5°	692.0	691.3	687.0	681.7	673.9	665.4	652.3	634.5	614.9	595.7	578.7
15°	748.8	749.9	747.1	741.6	730.5	715.5	695.8	688.4	660.2	639.4	618.5
17.5°	788.1	787.8	787.4	779.8	768.6	757.9	739.6	720.1	694.6	665.2	637.1
20°	813.0	811.1	811.5	802.9	794.6	782.2	764.3	736.1	715.2	681.2	652.1
22.5°	812.4	812.0	813.4	810.5	804.5	795.0	780.9	757.0	730.3	696.0	663.3
25°	771.6	770.1	778.9	781.5	791.2	792.9	788.6	775.6	750.3	714.9	674.5
27.5°	645.7	644.9	661.5	682.2	708.5	729.0	748.7	758.2	750.3	725.0	684.4
30°	529.9	547.8	556.2	586.2	619.6	659.5	694.5	727.7	735.9	724.8	691.6
32.5°	440.0	455.6	462.6	488.3	519.5	566.2	618.6	665.7	699.0	707.4	687.4
35°	334.7	334.8	350.8	362.2	391.1	439.1	490.1	553.1	615.8	663.3	668.2
37.5°	267.1	268.0	277.7	289.0	310.7	336.1	380.9	433.3	505.7	578.6	621.4
40°	230.6	232.3	239.5	250.7	266.3	285.5	320.4	369.8	430.2	511.4	577.6
42.5°	207.2	209.9	213.7	222.3	232.0	250.0	278.2	316.3	371.3	448.0	524.5
45°	178.6	180.1	183.0	186.9	195.7	208.1	227.1	252.8	298.4	360.1	436.7
47.5°	157.5	156.7	159.7	162.9	168.8	177.3	190.0	210.9	243.4	293.0	357.9
50°	143.2	143.0	145.1	147.6	153.1	159.4	169.8	185.6	211.4	252.4	311.9
52.5°	129.9	130.5	132.1	135.1	139.1	144.1	153.5	164.9	187.1	222.5	272.1
55°	112.1	112.7	114.7	116.4	119.3	124.4	130.3	139.8	155.0	179.7	220.5
57.5°	97.0	96.8	98.7	99.2	102.4	106.6	111.1	118.5	129.6	147.9	175.4
60°	87.0	86.4	88.1	89.4	91.2	94.6	98.4	105.6	114.4	127.8	151.4
62.5°	77.9	77.6	78.8	80.2	81.6	84.7	87.9	93.4	100.4	111.7	130.4
65°	64.6	65.1	65.7	66.3	67.0	69.0	72.0	75.8	80.6	88.5	102.0
67.5°	50.8	51.4	51.5	52.7	54.3	55.5	57.4	60.7	64.1	70.8	78.4
70°	41.0	40.8	41.0	41.6	43.7	45.7	48.3	50.7	52.8	57.6	64.0
72.5°	35.2	34.9	35.4	35.5	36.5	37.1	38.6	41.0	43.7	46.9	51.5
75°	27.3	27.3	27.3	27.3	28.1	28.5	29.0	29.6	30.6	32.1	35.5
77.5°	20.2	20.2	20.5	20.7	20.9	21.1	21.4	22.0	22.3	23.2	24.6
80°	16.0	16.1	16.0	16.1	16.1	16.6	16.7	17.3	17.4	18.4	19.0
82.5°	12.0	11.9	12.0	12.2	12.2	12.6	12.6	13.0	13.0	13.5	14.1
85°	6.4	6.1	6.4	6.3	6.7	6.3	6.4	6.8	6.8	7.0	7.8
87.5°	7.8	8.1	7.7	7.7	7.7	7.7	7.5	7.3	7.4	7.0	6.6
90°	31.7	31.2	30.8	30.3	29.8	29.1	28.2	27.2	26.3	25.4	22.3
92.5°	42.7	43.0	43.3	43.5	43.9	43.6	42.9	42.1	41.3	40.6	38.9
95°	82.5	82.5	82.5	82.5	82.5	82.0	81.0	80.1	79.2	78.3	76.4
97.5°	126.9	127.0	127.1	127.2	127.3	126.8	125.7	124.6	123.5	122.5	121.1
100°	160.7	160.3	159.8	159.3	158.8	158.2	157.5	156.9	156.1	155.5	154.3
102.5°	195.4	195.5	195.6	195.7	195.8	195.5	194.8	194.0	193.4	192.7	191.1
105°	251.7	251.2	250.7	250.3	249.8	249.6	249.6	249.6	249.6	249.6	247.4
107.5°	310.2	310.5	310.8	311.1	311.4	311.1	310.4	309.7	308.9	308.1	307.3
110°	350.0	350.5	351.0	351.4	351.9	351.6	350.7	349.8	348.9	347.9	347.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	392.3	392.4	392.5	392.6	392.6	392.2	391.0	389.9	388.8	387.7	387.6
115°	450.5	450.7	450.9	451.2	451.4	451.4	451.2	450.9	450.7	450.5	450.9
117.5°	509.5	510.1	510.8	511.4	512.1	512.4	512.5	512.6	512.6	512.7	513.2
120°	550.9	551.4	551.9	552.4	552.8	553.2	553.4	553.6	553.8	554.1	555.3
122.5°	590.7	591.3	592.0	592.6	593.3	593.9	594.5	595.2	595.7	596.4	597.0
125°	650.3	651.3	652.2	653.1	654.1	655.0	656.0	656.9	657.9	658.8	659.3
127.5°	709.7	710.9	711.9	713.0	714.0	715.3	716.6	717.9	719.2	720.6	721.1
130°	748.7	750.3	752.0	753.6	755.2	756.5	757.5	758.4	759.4	760.3	761.0
132.5°	789.3	790.5	791.8	793.0	794.3	795.6	796.6	797.8	798.9	800.1	800.5
135°	852.3	852.7	853.2	853.7	854.2	854.8	855.8	856.7	857.7	858.6	858.8
137.5°	907.9	908.8	909.7	910.6	911.5	912.4	913.4	914.4	915.3	916.4	915.7
140°	944.3	945.9	947.5	949.3	950.9	951.8	952.0	952.3	952.5	952.8	952.5
142.5°	981.5	982.8	984.1	985.3	986.6	987.3	987.6	987.8	988.1	988.3	987.8
145°	1035.2	1036.2	1037.1	1038.0	1039.0	1039.6	1039.8	1040.0	1040.2	1040.5	1039.8
147.5°	1083.0	1084.4	1085.8	1087.3	1088.7	1089.3	1089.3	1089.3	1089.3	1089.3	1088.7
150°	1113.5	1114.8	1116.3	1117.7	1119.1	1119.8	1119.8	1119.8	1119.8	1119.8	1119.3
152.5°	1143.0	1144.3	1145.5	1146.7	1147.9	1148.3	1148.0	1147.6	1147.3	1146.9	1146.6
155°	1183.2	1184.9	1186.6	1188.2	1189.8	1190.2	1189.3	1188.3	1187.4	1186.4	1186.2
157.5°	1219.9	1221.2	1222.5	1223.8	1225.1	1225.3	1224.3	1223.3	1222.3	1221.3	1221.2
160°	1243.5	1244.5	1245.5	1246.3	1247.3	1247.2	1246.0	1244.8	1243.7	1242.4	1242.4
162.5°	1261.3	1262.8	1264.3	1265.8	1267.3	1267.5	1266.3	1265.1	1264.0	1262.7	1262.6
165°	1286.9	1288.5	1290.2	1291.8	1293.5	1293.6	1292.2	1290.8	1289.3	1287.9	1287.9
167.5°	1308.6	1310.1	1311.6	1313.0	1314.5	1314.5	1313.0	1311.6	1310.1	1308.6	1308.5
170°	1319.6	1321.3	1323.0	1324.6	1326.2	1326.2	1324.6	1323.0	1321.3	1319.6	1319.6
172.5°	1328.1	1329.8	1331.4	1333.1	1334.7	1334.8	1333.3	1331.9	1330.4	1328.9	1328.9
175°	1337.7	1339.3	1340.9	1342.6	1344.2	1344.3	1343.0	1341.5	1340.1	1338.7	1338.7
177.5°	1342.7	1344.0	1345.3	1346.6	1348.0	1348.1	1347.0	1345.8	1344.7	1343.5	1343.5
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	458.1	457.7	455.6	453.1	450.0	447.8	446.1	445.2	442.5	439.1	436.9
5°	486.5	480.8	474.7	467.2	460.4	453.4	449.1	443.9	437.7	430.6	425.7
7.5°	516.7	505.6	493.6	481.1	468.9	457.9	448.1	439.8	429.8	419.7	412.7
10°	540.1	523.7	506.8	489.5	473.8	458.9	447.5	436.3	424.4	412.8	404.0
12.5°	561.2	539.6	520.2	498.9	478.7	461.1	444.7	431.5	417.0	404.7	394.8
15°	587.9	565.8	542.3	510.0	483.2	460.8	440.8	423.5	406.1	390.9	381.2
17.5°	612.9	579.8	548.0	521.1	486.3	458.4	434.0	413.4	394.1	378.1	366.1
20°	623.2	591.1	556.8	522.4	488.2	456.8	428.5	405.7	385.8	367.5	356.5
22.5°	629.4	593.1	556.8	519.9	483.6	451.0	423.1	397.9	376.3	359.1	345.4
25°	636.7	593.4	553.5	517.1	480.0	444.7	411.4	384.8	361.5	343.1	328.6
27.5°	641.5	590.5	543.4	502.9	465.3	430.2	399.7	371.5	347.7	328.2	312.7
30°	642.4	588.2	535.7	491.8	453.6	421.3	389.0	362.1	337.0	316.3	301.8
32.5°	643.6	582.6	525.1	478.6	439.4	407.5	378.2	352.5	326.8	306.4	291.6
35°	638.6	579.5	509.2	455.7	416.5	385.6	359.2	335.4	310.2	290.4	275.4
37.5°	617.0	567.2	492.8	429.9	389.0	360.4	338.8	318.1	295.0	273.6	259.5
40°	595.3	555.1	480.0	414.3	371.5	342.1	322.7	305.8	283.4	263.4	248.3
42.5°	563.0	538.4	467.8	397.9	351.8	323.4	307.0	291.2	271.6	251.3	237.0
45°	503.5	506.8	443.0	371.7	324.4	296.0	280.5	269.5	252.1	235.4	220.7
47.5°	429.1	459.3	413.8	343.9	295.6	268.9	255.4	245.8	234.0	217.6	204.2
50°	380.5	423.5	390.4	325.2	277.5	250.9	237.7	229.8	219.6	206.7	194.0
52.5°	335.7	382.0	362.1	304.4	257.9	233.6	220.6	214.2	206.0	193.9	182.4
55°	273.7	320.7	316.1	273.0	228.5	206.7	196.8	189.6	184.1	175.0	165.8
57.5°	221.4	265.9	268.2	238.0	202.6	181.0	172.5	167.1	163.5	156.6	148.1
60°	188.4	229.3	237.3	214.4	184.1	165.1	156.7	152.3	149.5	144.0	137.5
62.5°	161.1	195.8	204.9	188.5	166.3	148.5	141.9	137.8	135.8	131.1	125.4
65°	123.3	152.1	160.9	151.8	140.1	126.0	120.6	117.0	115.3	112.7	108.4
67.5°	92.7	113.7	123.4	116.9	112.7	103.7	100.4	98.4	96.9	95.1	91.6
70°	74.4	90.0	99.9	98.2	94.8	90.0	87.6	86.3	84.7	83.2	80.1
72.5°	59.8	70.6	79.8	80.7	77.9	77.0	74.8	74.2	73.3	71.5	69.8
75°	39.7	47.1	53.6	56.0	57.2	58.1	57.2	57.0	56.8	55.3	54.3
77.5°	26.0	30.0	34.1	38.3	40.1	41.3	41.7	42.4	41.8	41.1	40.6
80°	20.0	20.9	23.7	27.3	30.2	31.3	32.1	32.4	32.3	32.1	31.3
82.5°	14.5	15.2	16.6	19.2	21.5	23.4	23.9	23.8	24.2	24.4	23.7
85°	7.8	8.0	8.4	8.7	10.0	12.1	12.7	13.1	13.5	13.5	12.3
87.5°	6.3	5.5	5.2	4.6	4.6	4.3	4.8	5.1	5.7	5.5	6.0
90°	19.2	16.2	13.1	10.4	8.1	5.8	3.4	1.1	3.4	5.8	8.1
92.5°	37.1	35.4	33.7	32.0	30.4	28.8	27.1	25.6	27.1	28.8	30.4
95°	74.5	72.6	70.8	69.0	67.3	65.7	64.0	62.4	64.0	65.7	67.3
97.5°	119.7	118.4	117.0	115.7	114.5	113.2	112.0	110.8	112.0	113.2	114.5
100°	153.1	151.9	150.7	149.4	148.1	146.6	145.2	143.8	145.2	146.6	148.1
102.5°	189.6	188.0	186.5	185.2	184.4	183.6	182.7	181.9	182.7	183.6	184.4
105°	245.3	243.2	241.1	239.8	239.3	238.9	238.4	237.9	238.4	238.9	239.3
107.5°	306.5	305.6	304.8	304.2	303.9	303.6	303.4	303.0	303.4	303.6	303.9
110°	347.0	346.5	346.0	345.5	345.0	344.6	344.1	343.6	344.1	344.6	345.0





TEST NUMBER: P332403-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	387.4	387.3	387.3	387.1	386.8	386.5	386.2	386.0	386.2	386.5	386.8
115°	451.4	451.8	452.3	452.2	451.5	450.8	450.1	449.4	450.1	450.8	451.5
117.5°	513.9	514.5	515.1	515.2	514.7	514.2	513.7	513.3	513.7	514.2	514.7
120°	556.4	557.6	558.8	558.6	557.3	555.9	554.4	553.0	554.4	555.9	557.3
122.5°	597.6	598.2	598.8	598.6	597.6	596.6	595.5	594.5	595.5	596.6	597.6
125°	659.7	660.1	660.6	660.6	659.8	659.1	658.4	657.7	658.4	659.1	659.8
127.5°	721.5	722.1	722.6	722.1	720.6	719.1	717.6	716.1	717.6	719.1	720.6
130°	761.7	762.4	763.1	762.5	760.7	758.8	756.8	755.0	756.8	758.8	760.7
132.5°	801.1	801.6	802.1	801.4	799.6	797.7	795.8	793.9	795.8	797.7	799.6
135°	859.1	859.3	859.6	859.0	857.5	856.1	854.8	853.4	854.8	856.1	857.5
137.5°	915.2	914.5	914.0	913.1	911.8	910.7	909.5	908.3	909.5	910.7	911.8
140°	952.3	952.0	951.8	951.1	949.9	948.8	947.5	946.4	947.5	948.8	949.9
142.5°	987.4	987.0	986.6	985.8	984.6	983.4	982.3	981.0	982.3	983.4	984.6
145°	1039.1	1038.4	1037.7	1037.1	1036.7	1036.2	1035.7	1035.2	1035.7	1036.2	1036.7
147.5°	1088.0	1087.4	1086.7	1086.0	1085.2	1084.3	1083.5	1082.6	1083.5	1084.3	1085.2
150°	1118.8	1118.4	1117.9	1117.4	1117.0	1116.6	1116.1	1115.6	1116.1	1116.6	1117.0
152.5°	1146.3	1146.1	1145.7	1145.3	1144.6	1143.9	1143.3	1142.6	1143.3	1143.9	1144.6
155°	1185.9	1185.7	1185.5	1185.4	1185.4	1185.4	1185.4	1185.4	1185.4	1185.4	1185.4
157.5°	1220.9	1220.7	1220.6	1220.6	1220.9	1221.2	1221.5	1221.7	1221.5	1221.2	1220.9
160°	1242.4	1242.4	1242.4	1242.7	1243.2	1243.7	1244.1	1244.6	1244.1	1243.7	1243.2
162.5°	1262.4	1262.2	1262.0	1262.2	1262.9	1263.6	1264.2	1264.9	1264.2	1263.6	1262.9
165°	1287.9	1287.9	1287.9	1288.3	1289.0	1289.7	1290.4	1291.1	1290.4	1289.7	1289.0
167.5°	1308.3	1308.1	1307.9	1308.3	1309.2	1310.2	1311.1	1312.1	1311.1	1310.2	1309.2
170°	1319.6	1319.6	1319.6	1320.1	1321.1	1322.0	1323.0	1323.9	1323.0	1322.0	1321.1
172.5°	1328.9	1328.9	1328.9	1329.4	1330.4	1331.3	1332.3	1333.2	1332.3	1331.3	1330.4
175°	1338.7	1338.7	1338.7	1339.1	1340.1	1341.1	1342.0	1343.0	1342.0	1341.1	1340.1
177.5°	1343.5	1343.5	1343.5	1343.9	1344.7	1345.4	1346.2	1347.0	1346.2	1345.4	1344.7
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332403-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	436.1	434.1	432.8	429.7	427.8	425.7	423.5	424.9	424.7	424.6	424.6
5°	421.5	417.1	413.1	408.0	404.8	400.8	397.8	397.4	398.1	395.5	394.0
7.5°	407.0	401.0	395.3	389.7	383.7	378.9	375.9	374.5	372.6	371.0	369.2
10°	396.8	389.8	384.3	377.2	370.8	365.1	361.5	359.0	357.7	356.4	353.8
12.5°	386.3	379.4	372.4	364.4	358.3	351.7	349.0	346.3	343.7	342.2	338.8
15°	371.0	362.1	354.7	346.3	339.4	333.0	329.2	323.7	322.9	321.0	317.6
17.5°	355.6	345.9	335.7	329.5	321.8	315.0	309.2	307.4	302.0	299.9	296.9
20°	343.4	334.5	326.7	318.5	307.4	301.1	296.5	294.1	289.7	287.0	285.1
22.5°	333.0	323.8	314.9	305.3	296.1	289.0	285.7	281.8	279.5	275.7	273.7
25°	318.0	308.1	297.3	287.0	280.4	275.1	269.7	266.3	262.9	261.1	257.4
27.5°	300.6	290.2	280.1	272.3	264.2	258.9	254.1	251.1	247.0	244.1	242.0
30°	291.0	278.8	270.1	263.1	252.7	247.7	244.1	240.3	237.3	234.2	232.1
32.5°	279.9	268.8	260.6	251.8	243.9	238.4	233.7	230.4	227.8	224.9	222.8
35°	262.5	253.2	244.7	235.9	230.0	224.5	219.0	216.1	213.7	211.0	209.1
37.5°	246.8	238.1	229.9	221.7	214.3	209.9	205.5	203.3	199.9	198.1	196.2
40°	237.1	228.5	219.8	211.8	204.2	200.8	196.8	193.6	190.5	189.1	187.1
42.5°	226.4	217.8	210.5	201.9	195.7	191.0	187.4	183.8	181.6	179.6	178.5
45°	210.7	203.1	195.8	187.3	181.4	177.4	173.3	170.0	168.0	166.6	164.5
47.5°	195.3	187.8	180.4	173.0	167.3	162.7	158.5	156.3	153.5	151.9	150.5
50°	184.3	177.4	169.7	162.8	157.1	152.5	149.1	146.3	143.8	141.7	140.7
52.5°	174.1	166.8	160.0	153.7	147.7	142.5	139.4	136.4	134.5	132.2	131.0
55°	157.3	150.3	144.6	138.3	132.4	128.0	124.3	121.6	119.7	117.0	115.5
57.5°	141.5	135.2	128.4	122.9	116.9	113.2	110.1	106.5	104.1	102.1	100.5
60°	130.9	123.7	117.7	112.7	107.3	102.6	99.7	96.9	94.4	92.3	91.0
62.5°	119.8	113.5	107.9	102.3	97.4	93.3	90.0	87.6	85.4	84.1	82.8
65°	102.7	97.8	92.1	87.6	83.0	80.0	77.3	75.3	73.7	72.7	71.6
67.5°	87.1	82.3	77.4	72.9	69.8	67.5	65.8	64.0	63.2	62.0	61.2
70°	77.0	72.0	67.6	64.2	61.1	59.4	58.3	57.0	56.3	54.7	54.0
72.5°	65.9	62.3	59.1	56.3	53.9	52.3	50.9	49.2	48.0	46.3	45.6
75°	51.9	48.6	46.1	44.3	42.7	40.7	38.6	36.9	36.3	35.7	35.5
77.5°	38.4	36.4	34.6	32.9	31.1	29.6	29.1	28.7	28.6	28.3	28.3
80°	30.2	28.3	27.0	25.1	24.0	24.0	24.0	23.6	23.7	23.7	23.7
82.5°	22.4	20.7	20.0	19.3	19.1	19.2	19.2	19.3	19.2	19.5	19.3
85°	11.6	11.7	12.1	12.0	12.1	12.1	12.6	12.3	12.6	12.1	12.6
87.5°	6.4	7.3	8.1	8.9	9.6	10.1	10.4	10.6	10.9	11.2	11.3
90°	10.4	13.1	16.2	19.2	22.3	25.4	26.3	27.2	28.2	29.1	29.8
92.5°	32.0	33.7	35.4	37.1	38.9	40.6	41.3	42.1	42.9	43.6	43.9
95°	69.0	70.8	72.6	74.5	76.4	78.3	79.2	80.1	81.0	82.0	82.5
97.5°	115.7	117.0	118.4	119.7	121.1	122.5	123.5	124.6	125.7	126.8	127.3
100°	149.4	150.7	151.9	153.1	154.3	155.5	156.1	156.9	157.5	158.2	158.8
102.5°	185.2	186.5	188.0	189.6	191.1	192.7	193.4	194.0	194.8	195.5	195.8
105°	239.8	241.1	243.2	245.3	247.4	249.6	249.6	249.6	249.6	249.6	249.8
107.5°	304.2	304.8	305.6	306.5	307.3	308.1	308.9	309.7	310.4	311.1	311.4
110°	345.5	346.0	346.5	347.0	347.4	347.9	348.9	349.8	350.7	351.6	351.9



TEST NUMBER: P332403-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	387.1	387.3	387.3	387.4	387.6	387.7	388.8	389.9	391.0	392.2	392.6
115°	452.2	452.3	451.8	451.4	450.9	450.5	450.7	450.9	451.2	451.4	451.4
117.5°	515.2	515.1	514.5	513.9	513.2	512.7	512.6	512.6	512.5	512.4	512.1
120°	558.6	558.8	557.6	556.4	555.3	554.1	553.8	553.6	553.4	553.2	552.8
122.5°	598.6	598.8	598.2	597.6	597.0	596.4	595.7	595.2	594.5	593.9	593.3
125°	660.6	660.6	660.1	659.7	659.3	658.8	657.9	656.9	656.0	655.0	654.1
127.5°	722.1	722.6	722.1	721.5	721.1	720.6	719.2	717.9	716.6	715.3	714.0
130°	762.5	763.1	762.4	761.7	761.0	760.3	759.4	758.4	757.5	756.5	755.2
132.5°	801.4	802.1	801.6	801.1	800.5	800.1	798.9	797.8	796.6	795.6	794.3
135°	859.0	859.6	859.3	859.1	858.8	858.6	857.7	856.7	855.8	854.8	854.2
137.5°	913.1	914.0	914.5	915.2	915.7	916.4	915.3	914.4	913.4	912.4	911.5
140°	951.1	951.8	952.0	952.3	952.5	952.8	952.5	952.3	952.0	951.8	950.9
142.5°	985.8	986.6	987.0	987.4	987.8	988.3	988.1	987.8	987.6	987.3	986.6
145°	1037.1	1037.7	1038.4	1039.1	1039.8	1040.5	1040.2	1040.0	1039.8	1039.6	1039.0
147.5°	1086.0	1086.7	1087.4	1088.0	1088.7	1089.3	1089.3	1089.3	1089.3	1089.3	1088.7
150°	1117.4	1117.9	1118.4	1118.8	1119.3	1119.8	1119.8	1119.8	1119.8	1119.8	1119.1
152.5°	1145.3	1145.7	1146.1	1146.3	1146.6	1146.9	1147.3	1147.6	1148.0	1148.3	1147.9
155°	1185.4	1185.5	1185.7	1185.9	1186.2	1186.4	1187.4	1188.3	1189.3	1190.2	1189.8
157.5°	1220.6	1220.6	1220.7	1220.9	1221.2	1221.3	1222.3	1223.3	1224.3	1225.3	1225.1
160°	1242.7	1242.4	1242.4	1242.4	1242.4	1242.4	1243.7	1244.8	1246.0	1247.2	1247.3
162.5°	1262.2	1262.0	1262.2	1262.4	1262.6	1262.7	1264.0	1265.1	1266.3	1267.5	1267.3
165°	1288.3	1287.9	1287.9	1287.9	1287.9	1287.9	1289.3	1290.8	1292.2	1293.6	1293.5
167.5°	1308.3	1307.9	1308.1	1308.3	1308.5	1308.6	1310.1	1311.6	1313.0	1314.5	1314.5
170°	1320.1	1319.6	1319.6	1319.6	1319.6	1319.6	1321.3	1323.0	1324.6	1326.2	1326.2
172.5°	1329.4	1328.9	1328.9	1328.9	1328.9	1328.9	1330.4	1331.9	1333.3	1334.8	1334.7
175°	1339.1	1338.7	1338.7	1338.7	1338.7	1338.7	1340.1	1341.5	1343.0	1344.3	1344.2
177.5°	1343.9	1343.5	1343.5	1343.5	1343.5	1343.5	1344.7	1345.8	1347.0	1348.1	1348.0
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332403-930

CATALOG NUMBER: S123RDIW-S340D1320U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	422.7	422.6	422.7	422.2	422.7	422.6	422.7	424.6	424.6	424.7	424.9
5°	393.4	393.2	392.6	390.9	392.6	393.2	393.4	394.0	395.5	398.1	397.4
7.5°	367.7	367.5	365.8	365.8	365.8	367.5	367.7	369.2	371.0	372.6	374.5
10°	352.5	352.7	350.4	349.1	350.4	352.7	352.5	353.8	356.4	357.7	359.0
12.5°	337.8	337.0	335.1	333.6	335.1	337.0	337.8	338.8	342.2	343.7	346.3
15°	318.4	316.4	311.9	312.3	311.9	316.4	318.4	317.6	321.0	322.9	323.7
17.5°	295.5	294.1	294.0	291.3	294.0	294.1	295.5	296.9	299.9	302.0	307.4
20°	282.1	281.1	281.5	278.8	281.5	281.1	282.1	285.1	287.0	289.7	294.1
22.5°	271.6	270.6	269.0	268.2	269.0	270.6	271.6	273.7	275.7	279.5	281.8
25°	256.2	254.7	253.2	254.1	253.2	254.7	256.2	257.4	261.1	262.9	266.3
27.5°	240.9	239.8	238.2	238.1	238.2	239.8	240.9	242.0	244.1	247.0	251.1
30°	231.1	230.0	229.3	228.3	229.3	230.0	231.1	232.1	234.2	237.3	240.3
32.5°	221.3	221.0	219.7	219.5	219.7	221.0	221.3	222.8	224.9	227.8	230.4
35°	208.4	207.2	206.8	207.0	206.8	207.2	208.4	209.1	211.0	213.7	216.1
37.5°	196.1	194.6	193.9	193.2	193.9	194.6	196.1	196.2	198.1	199.9	203.3
40°	187.3	185.8	185.4	185.0	185.4	185.8	187.3	187.1	189.1	190.5	193.6
42.5°	177.4	176.8	176.6	175.9	176.6	176.8	177.4	178.5	179.6	181.6	183.8
45°	164.0	163.7	162.6	163.0	162.6	163.7	164.0	164.5	166.6	168.0	170.0
47.5°	149.7	148.9	148.1	148.6	148.1	148.9	149.7	150.5	151.9	153.5	156.3
50°	140.0	139.6	137.9	138.3	137.9	139.6	140.0	140.7	141.7	143.8	146.3
52.5°	130.3	128.8	128.2	127.9	128.2	128.8	130.3	131.0	132.2	134.5	136.4
55°	114.1	112.4	111.7	111.3	111.7	112.4	114.1	115.5	117.0	119.7	121.6
57.5°	98.3	97.9	97.3	97.7	97.3	97.9	98.3	100.5	102.1	104.1	106.5
60°	89.1	89.1	89.1	88.9	89.1	89.1	89.1	91.0	92.3	94.4	96.9
62.5°	81.9	81.4	81.4	81.6	81.4	81.4	81.9	82.8	84.1	85.4	87.6
65°	71.0	70.8	70.1	69.9	70.1	70.8	71.0	71.6	72.7	73.7	75.3
67.5°	60.7	60.1	59.8	59.6	59.8	60.1	60.7	61.2	62.0	63.2	64.0
70°	53.0	52.6	51.4	51.7	51.4	52.6	53.0	54.0	54.7	56.3	57.0
72.5°	44.7	44.3	44.0	43.8	44.0	44.3	44.7	45.6	46.3	48.0	49.2
75°	35.3	35.1	35.0	35.7	35.0	35.1	35.3	35.5	35.7	36.3	36.9
77.5°	28.3	28.3	28.5	28.1	28.5	28.3	28.3	28.3	28.3	28.6	28.7
80°	23.7	23.7	23.6	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.6
82.5°	19.0	19.2	19.3	19.0	19.3	19.2	19.0	19.3	19.5	19.2	19.3
85°	12.6	12.3	12.7	12.6	12.7	12.3	12.6	12.6	12.1	12.6	12.3
87.5°	11.7	11.5	11.6	11.8	11.6	11.5	11.7	11.3	11.2	10.9	10.6
90°	30.3	30.8	31.2	31.7	31.2	30.8	30.3	29.8	29.1	28.2	27.2
92.5°	43.5	43.3	43.0	42.7	43.0	43.3	43.5	43.9	43.6	42.9	42.1
95°	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.0	81.0	80.1
97.5°	127.2	127.1	127.0	126.9	127.0	127.1	127.2	127.3	126.8	125.7	124.6
100°	159.3	159.8	160.3	160.7	160.3	159.8	159.3	158.8	158.2	157.5	156.9
102.5°	195.7	195.6	195.5	195.4	195.5	195.6	195.7	195.8	195.5	194.8	194.0
105°	250.3	250.7	251.2	251.7	251.2	250.7	250.3	249.8	249.6	249.6	249.6
107.5°	311.1	310.8	310.5	310.2	310.5	310.8	311.1	311.4	311.1	310.4	309.7
110°	351.4	351.0	350.5	350.0	350.5	351.0	351.4	351.9	351.6	350.7	349.8



TEST NUMBER: P332403-930

CATALOG NUMBER: S123RDIW-S340D1320U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	392.6	392.5	392.4	392.3	392.4	392.5	392.6	392.6	392.2	391.0	389.9
115°	451.2	450.9	450.7	450.5	450.7	450.9	451.2	451.4	451.4	451.2	450.9
117.5°	511.4	510.8	510.1	509.5	510.1	510.8	511.4	512.1	512.4	512.5	512.6
120°	552.4	551.9	551.4	550.9	551.4	551.9	552.4	552.8	553.2	553.4	553.6
122.5°	592.6	592.0	591.3	590.7	591.3	592.0	592.6	593.3	593.9	594.5	595.2
125°	653.1	652.2	651.3	650.3	651.3	652.2	653.1	654.1	655.0	656.0	656.9
127.5°	713.0	711.9	710.9	709.7	710.9	711.9	713.0	714.0	715.3	716.6	717.9
130°	753.6	752.0	750.3	748.7	750.3	752.0	753.6	755.2	756.5	757.5	758.4
132.5°	793.0	791.8	790.5	789.3	790.5	791.8	793.0	794.3	795.6	796.6	797.8
135°	853.7	853.2	852.7	852.3	852.7	853.2	853.7	854.2	854.8	855.8	856.7
137.5°	910.6	909.7	908.8	907.9	908.8	909.7	910.6	911.5	912.4	913.4	914.4
140°	949.3	947.5	945.9	944.3	945.9	947.5	949.3	950.9	951.8	952.0	952.3
142.5°	985.3	984.1	982.8	981.5	982.8	984.1	985.3	986.6	987.3	987.6	987.8
145°	1038.0	1037.1	1036.2	1035.2	1036.2	1037.1	1038.0	1039.0	1039.6	1039.8	1040.0
147.5°	1087.3	1085.8	1084.4	1083.0	1084.4	1085.8	1087.3	1088.7	1089.3	1089.3	1089.3
150°	1117.7	1116.3	1114.8	1113.5	1114.8	1116.3	1117.7	1119.1	1119.8	1119.8	1119.8
152.5°	1146.7	1145.5	1144.3	1143.0	1144.3	1145.5	1146.7	1147.9	1148.3	1148.0	1147.6
155°	1188.2	1186.6	1184.9	1183.2	1184.9	1186.6	1188.2	1189.8	1190.2	1189.3	1188.3
157.5°	1223.8	1222.5	1221.2	1219.9	1221.2	1222.5	1223.8	1225.1	1225.3	1224.3	1223.3
160°	1246.3	1245.5	1244.5	1243.5	1244.5	1245.5	1246.3	1247.3	1247.2	1246.0	1244.8
162.5°	1265.8	1264.3	1262.8	1261.3	1262.8	1264.3	1265.8	1267.3	1267.5	1266.3	1265.1
165°	1291.8	1290.2	1288.5	1286.9	1288.5	1290.2	1291.8	1293.5	1293.6	1292.2	1290.8
167.5°	1313.0	1311.6	1310.1	1308.6	1310.1	1311.6	1313.0	1314.5	1314.5	1313.0	1311.6
170°	1324.6	1323.0	1321.3	1319.6	1321.3	1323.0	1324.6	1326.2	1326.2	1324.6	1323.0
172.5°	1333.1	1331.4	1329.8	1328.1	1329.8	1331.4	1333.1	1334.7	1334.8	1333.3	1331.9
175°	1342.6	1340.9	1339.3	1337.7	1339.3	1340.9	1342.6	1344.2	1344.3	1343.0	1341.5
177.5°	1346.6	1345.3	1344.0	1342.7	1344.0	1345.3	1346.6	1348.0	1348.1	1347.0	1345.8
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332403-930

CATALOG NUMBER: S123RDIW-S340D1320U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	423.5	425.7	427.8	429.7	432.8	434.1	436.1	436.9	439.1	442.5	445.2
5°	397.8	400.8	404.8	408.0	413.1	417.1	421.5	425.7	430.6	437.7	443.9
7.5°	375.9	378.9	383.7	389.7	395.3	401.0	407.0	412.7	419.7	429.8	439.8
10°	361.5	365.1	370.8	377.2	384.3	389.8	396.8	404.0	412.8	424.4	436.3
12.5°	349.0	351.7	358.3	364.4	372.4	379.4	386.3	394.8	404.7	417.0	431.5
15°	329.2	333.0	339.4	346.3	354.7	362.1	371.0	381.2	390.9	406.1	423.5
17.5°	309.2	315.0	321.8	329.5	335.7	345.9	355.6	366.1	378.1	394.1	413.4
20°	296.5	301.1	307.4	318.5	326.7	334.5	343.4	356.5	367.5	385.8	405.7
22.5°	285.7	289.0	296.1	305.3	314.9	323.8	333.0	345.4	359.1	376.3	397.9
25°	269.7	275.1	280.4	287.0	297.3	308.1	318.0	328.6	343.1	361.5	384.8
27.5°	254.1	258.9	264.2	272.3	280.1	290.2	300.6	312.7	328.2	347.7	371.5
30°	244.1	247.7	252.7	263.1	270.1	278.8	291.0	301.8	316.3	337.0	362.1
32.5°	233.7	238.4	243.9	251.8	260.6	268.8	279.9	291.6	306.4	326.8	352.5
35°	219.0	224.5	230.0	235.9	244.7	253.2	262.5	275.4	290.4	310.2	335.4
37.5°	205.5	209.9	214.3	221.7	229.9	238.1	246.8	259.5	273.6	295.0	318.1
40°	196.8	200.8	204.2	211.8	219.8	228.5	237.1	248.3	263.4	283.4	305.8
42.5°	187.4	191.0	195.7	201.9	210.5	217.8	226.4	237.0	251.3	271.6	291.2
45°	173.3	177.4	181.4	187.3	195.8	203.1	210.7	220.7	235.4	252.1	269.5
47.5°	158.5	162.7	167.3	173.0	180.4	187.8	195.3	204.2	217.6	234.0	245.8
50°	149.1	152.5	157.1	162.8	169.7	177.4	184.3	194.0	206.7	219.6	229.8
52.5°	139.4	142.5	147.7	153.7	160.0	166.8	174.1	182.4	193.9	206.0	214.2
55°	124.3	128.0	132.4	138.3	144.6	150.3	157.3	165.8	175.0	184.1	189.6
57.5°	110.1	113.2	116.9	122.9	128.4	135.2	141.5	148.1	156.6	163.5	167.1
60°	99.7	102.6	107.3	112.7	117.7	123.7	130.9	137.5	144.0	149.5	152.3
62.5°	90.0	93.3	97.4	102.3	107.9	113.5	119.8	125.4	131.1	135.8	137.8
65°	77.3	80.0	83.0	87.6	92.1	97.8	102.7	108.4	112.7	115.3	117.0
67.5°	65.8	67.5	69.8	72.9	77.4	82.3	87.1	91.6	95.1	96.9	98.4
70°	58.3	59.4	61.1	64.2	67.6	72.0	77.0	80.1	83.2	84.7	86.3
72.5°	50.9	52.3	53.9	56.3	59.1	62.3	65.9	69.8	71.5	73.3	74.2
75°	38.6	40.7	42.7	44.3	46.1	48.6	51.9	54.3	55.3	56.8	57.0
77.5°	29.1	29.6	31.1	32.9	34.6	36.4	38.4	40.6	41.1	41.8	42.4
80°	24.0	24.0	24.0	25.1	27.0	28.3	30.2	31.3	32.1	32.3	32.4
82.5°	19.2	19.2	19.1	19.3	20.0	20.7	22.4	23.7	24.4	24.2	23.8
85°	12.6	12.1	12.1	12.0	12.1	11.7	11.6	12.3	13.5	13.5	13.1
87.5°	10.4	10.1	9.6	8.9	8.1	7.3	6.4	6.0	5.5	5.7	5.1
90°	26.3	25.4	22.3	19.2	16.2	13.1	10.4	8.1	5.8	3.4	1.1
92.5°	41.3	40.6	38.9	37.1	35.4	33.7	32.0	30.4	28.8	27.1	25.6
95°	79.2	78.3	76.4	74.5	72.6	70.8	69.0	67.3	65.7	64.0	62.4
97.5°	123.5	122.5	121.1	119.7	118.4	117.0	115.7	114.5	113.2	112.0	110.8
100°	156.1	155.5	154.3	153.1	151.9	150.7	149.4	148.1	146.6	145.2	143.8
102.5°	193.4	192.7	191.1	189.6	188.0	186.5	185.2	184.4	183.6	182.7	181.9
105°	249.6	249.6	247.4	245.3	243.2	241.1	239.8	239.3	238.9	238.4	237.9
107.5°	308.9	308.1	307.3	306.5	305.6	304.8	304.2	303.9	303.6	303.4	303.0
110°	348.9	347.9	347.4	347.0	346.5	346.0	345.5	345.0	344.6	344.1	343.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	388.8	387.7	387.6	387.4	387.3	387.3	387.1	386.8	386.5	386.2	386.0
115°	450.7	450.5	450.9	451.4	451.8	452.3	452.2	451.5	450.8	450.1	449.4
117.5°	512.6	512.7	513.2	513.9	514.5	515.1	515.2	514.7	514.2	513.7	513.3
120°	553.8	554.1	555.3	556.4	557.6	558.8	558.6	557.3	555.9	554.4	553.0
122.5°	595.7	596.4	597.0	597.6	598.2	598.8	598.6	597.6	596.6	595.5	594.5
125°	657.9	658.8	659.3	659.7	660.1	660.6	660.6	659.8	659.1	658.4	657.7
127.5°	719.2	720.6	721.1	721.5	722.1	722.6	722.1	720.6	719.1	717.6	716.1
130°	759.4	760.3	761.0	761.7	762.4	763.1	762.5	760.7	758.8	756.8	755.0
132.5°	798.9	800.1	800.5	801.1	801.6	802.1	801.4	799.6	797.7	795.8	793.9
135°	857.7	858.6	858.8	859.1	859.3	859.6	859.0	857.5	856.1	854.8	853.4
137.5°	915.3	916.4	915.7	915.2	914.5	914.0	913.1	911.8	910.7	909.5	908.3
140°	952.5	952.8	952.5	952.3	952.0	951.8	951.1	949.9	948.8	947.5	946.4
142.5°	988.1	988.3	987.8	987.4	987.0	986.6	985.8	984.6	983.4	982.3	981.0
145°	1040.2	1040.5	1039.8	1039.1	1038.4	1037.7	1037.1	1036.7	1036.2	1035.7	1035.2
147.5°	1089.3	1089.3	1088.7	1088.0	1087.4	1086.7	1086.0	1085.2	1084.3	1083.5	1082.6
150°	1119.8	1119.8	1119.3	1118.8	1118.4	1117.9	1117.4	1117.0	1116.6	1116.1	1115.6
152.5°	1147.3	1146.9	1146.6	1146.3	1146.1	1145.7	1145.3	1144.6	1143.9	1143.3	1142.6
155°	1187.4	1186.4	1186.2	1185.9	1185.7	1185.5	1185.4	1185.4	1185.4	1185.4	1185.4
157.5°	1222.3	1221.3	1221.2	1220.9	1220.7	1220.6	1220.6	1220.9	1221.2	1221.5	1221.7
160°	1243.7	1242.4	1242.4	1242.4	1242.4	1242.4	1242.7	1243.2	1243.7	1244.1	1244.6
162.5°	1264.0	1262.7	1262.6	1262.4	1262.2	1262.0	1262.2	1262.9	1263.6	1264.2	1264.9
165°	1289.3	1287.9	1287.9	1287.9	1287.9	1287.9	1288.3	1289.0	1289.7	1290.4	1291.1
167.5°	1310.1	1308.6	1308.5	1308.3	1308.1	1307.9	1308.3	1309.2	1310.2	1311.1	1312.1
170°	1321.3	1319.6	1319.6	1319.6	1319.6	1319.6	1320.1	1321.1	1322.0	1323.0	1323.9
172.5°	1330.4	1328.9	1328.9	1328.9	1328.9	1328.9	1329.4	1330.4	1331.3	1332.3	1333.2
175°	1340.1	1338.7	1338.7	1338.7	1338.7	1338.7	1339.1	1340.1	1341.1	1342.0	1343.0
177.5°	1344.7	1343.5	1343.5	1343.5	1343.5	1343.5	1343.9	1344.7	1345.4	1346.2	1347.0
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332403-930

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	446.1	447.8	450.0	453.1	455.6	457.7	458.1	458.8	460.3	462.8	464.8
5°	449.1	453.4	460.4	467.2	474.7	480.8	486.5	490.5	494.2	502.2	508.7
7.5°	448.1	457.9	468.9	481.1	493.6	505.6	516.7	526.8	536.7	548.4	561.6
10°	447.5	458.9	473.8	489.5	506.8	523.7	540.1	552.8	567.5	580.9	597.8
12.5°	444.7	461.1	478.7	498.9	520.2	539.6	561.2	578.7	595.7	614.9	634.5
15°	440.8	460.8	483.2	510.0	542.3	565.8	587.9	618.5	639.4	660.2	688.4
17.5°	434.0	458.4	486.3	521.1	548.0	579.8	612.9	637.1	665.2	694.6	720.1
20°	428.5	456.8	488.2	522.4	556.8	591.1	623.2	652.1	681.2	715.2	736.1
22.5°	423.1	451.0	483.6	519.9	556.8	593.1	629.4	663.3	696.0	730.3	757.0
25°	411.4	444.7	480.0	517.1	553.5	593.4	636.7	674.5	714.9	750.3	775.6
27.5°	399.7	430.2	465.3	502.9	543.4	590.5	641.5	684.4	725.0	750.3	758.2
30°	389.0	421.3	453.6	491.8	535.7	588.2	642.4	691.6	724.8	735.9	727.7
32.5°	378.2	407.5	439.4	478.6	525.1	582.6	643.6	687.4	707.4	699.0	665.7
35°	359.2	385.6	416.5	455.7	509.2	579.5	638.6	668.2	663.3	615.8	553.1
37.5°	338.8	360.4	389.0	429.9	492.8	567.2	617.0	621.4	578.6	505.7	433.3
40°	322.7	342.1	371.5	414.3	480.0	555.1	595.3	577.6	511.4	430.2	369.8
42.5°	307.0	323.4	351.8	397.9	467.8	538.4	563.0	524.5	448.0	371.3	316.3
45°	280.5	296.0	324.4	371.7	443.0	506.8	503.5	436.7	360.1	298.4	252.8
47.5°	255.4	268.9	295.6	343.9	413.8	459.3	429.1	357.9	293.0	243.4	210.9
50°	237.7	250.9	277.5	325.2	390.4	423.5	380.5	311.9	252.4	211.4	185.6
52.5°	220.6	233.6	257.9	304.4	362.1	382.0	335.7	272.1	222.5	187.1	164.9
55°	196.8	206.7	228.5	273.0	316.1	320.7	273.7	220.5	179.7	155.0	139.8
57.5°	172.5	181.0	202.6	238.0	268.2	265.9	221.4	175.4	147.9	129.6	118.5
60°	156.7	165.1	184.1	214.4	237.3	229.3	188.4	151.4	127.8	114.4	105.6
62.5°	141.9	148.5	166.3	188.5	204.9	195.8	161.1	130.4	111.7	100.4	93.4
65°	120.6	126.0	140.1	151.8	160.9	152.1	123.3	102.0	88.5	80.6	75.8
67.5°	100.4	103.7	112.7	116.9	123.4	113.7	92.7	78.4	70.8	64.1	60.7
70°	87.6	90.0	94.8	98.2	99.9	90.0	74.4	64.0	57.6	52.8	50.7
72.5°	74.8	77.0	77.9	80.7	79.8	70.6	59.8	51.5	46.9	43.7	41.0
75°	57.2	58.1	57.2	56.0	53.6	47.1	39.7	35.5	32.1	30.6	29.6
77.5°	41.7	41.3	40.1	38.3	34.1	30.0	26.0	24.6	23.2	22.3	22.0
80°	32.1	31.3	30.2	27.3	23.7	20.9	20.0	19.0	18.4	17.4	17.3
82.5°	23.9	23.4	21.5	19.2	16.6	15.2	14.5	14.1	13.5	13.0	13.0
85°	12.7	12.1	10.0	8.7	8.4	8.0	7.8	7.8	7.0	6.8	6.8
87.5°	4.8	4.3	4.6	4.6	5.2	5.5	6.3	6.6	7.0	7.4	7.3
90°	3.4	5.8	8.1	10.4	13.1	16.2	19.2	22.3	25.4	26.3	27.2
92.5°	27.1	28.8	30.4	32.0	33.7	35.4	37.1	38.9	40.6	41.3	42.1
95°	64.0	65.7	67.3	69.0	70.8	72.6	74.5	76.4	78.3	79.2	80.1
97.5°	112.0	113.2	114.5	115.7	117.0	118.4	119.7	121.1	122.5	123.5	124.6
100°	145.2	146.6	148.1	149.4	150.7	151.9	153.1	154.3	155.5	156.1	156.9
102.5°	182.7	183.6	184.4	185.2	186.5	188.0	189.6	191.1	192.7	193.4	194.0
105°	238.4	238.9	239.3	239.8	241.1	243.2	245.3	247.4	249.6	249.6	249.6
107.5°	303.4	303.6	303.9	304.2	304.8	305.6	306.5	307.3	308.1	308.9	309.7
110°	344.1	344.6	345.0	345.5	346.0	346.5	347.0	347.4	347.9	348.9	349.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	386.2	386.5	386.8	387.1	387.3	387.3	387.4	387.6	387.7	388.8	389.9
115°	450.1	450.8	451.5	452.2	452.3	451.8	451.4	450.9	450.5	450.7	450.9
117.5°	513.7	514.2	514.7	515.2	515.1	514.5	513.9	513.2	512.7	512.6	512.6
120°	554.4	555.9	557.3	558.6	558.8	557.6	556.4	555.3	554.1	553.8	553.6
122.5°	595.5	596.6	597.6	598.6	598.8	598.2	597.6	597.0	596.4	595.7	595.2
125°	658.4	659.1	659.8	660.6	660.6	660.1	659.7	659.3	658.8	657.9	656.9
127.5°	717.6	719.1	720.6	722.1	722.6	722.1	721.5	721.1	720.6	719.2	717.9
130°	756.8	758.8	760.7	762.5	763.1	762.4	761.7	761.0	760.3	759.4	758.4
132.5°	795.8	797.7	799.6	801.4	802.1	801.6	801.1	800.5	800.1	798.9	797.8
135°	854.8	856.1	857.5	859.0	859.6	859.3	859.1	858.8	858.6	857.7	856.7
137.5°	909.5	910.7	911.8	913.1	914.0	914.5	915.2	915.7	916.4	915.3	914.4
140°	947.5	948.8	949.9	951.1	951.8	952.0	952.3	952.5	952.8	952.5	952.3
142.5°	982.3	983.4	984.6	985.8	986.6	987.0	987.4	987.8	988.3	988.1	987.8
145°	1035.7	1036.2	1036.7	1037.1	1037.7	1038.4	1039.1	1039.8	1040.5	1040.2	1040.0
147.5°	1083.5	1084.3	1085.2	1086.0	1086.7	1087.4	1088.0	1088.7	1089.3	1089.3	1089.3
150°	1116.1	1116.6	1117.0	1117.4	1117.9	1118.4	1118.8	1119.3	1119.8	1119.8	1119.8
152.5°	1143.3	1143.9	1144.6	1145.3	1145.7	1146.1	1146.3	1146.6	1146.9	1147.3	1147.6
155°	1185.4	1185.4	1185.4	1185.4	1185.5	1185.7	1185.9	1186.2	1186.4	1187.4	1188.3
157.5°	1221.5	1221.2	1220.9	1220.6	1220.6	1220.7	1220.9	1221.2	1221.3	1222.3	1223.3
160°	1244.1	1243.7	1243.2	1242.7	1242.4	1242.4	1242.4	1242.4	1242.4	1243.7	1244.8
162.5°	1264.2	1263.6	1262.9	1262.2	1262.0	1262.2	1262.4	1262.6	1262.7	1264.0	1265.1
165°	1290.4	1289.7	1289.0	1288.3	1287.9	1287.9	1287.9	1287.9	1287.9	1289.3	1290.8
167.5°	1311.1	1310.2	1309.2	1308.3	1307.9	1308.1	1308.3	1308.5	1308.6	1310.1	1311.6
170°	1323.0	1322.0	1321.1	1320.1	1319.6	1319.6	1319.6	1319.6	1319.6	1321.3	1323.0
172.5°	1332.3	1331.3	1330.4	1329.4	1328.9	1328.9	1328.9	1328.9	1328.9	1330.4	1331.9
175°	1342.0	1341.1	1340.1	1339.1	1338.7	1338.7	1338.7	1338.7	1338.7	1340.1	1341.5
177.5°	1346.2	1345.4	1344.7	1343.9	1343.5	1343.5	1343.5	1343.5	1343.5	1344.7	1345.8
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	468.1	468.1	468.6	470.9	471.2	473.2	472.6
5°	514.4	518.0	519.3	525.1	528.4	529.9	526.9
7.5°	571.0	581.2	586.0	592.1	597.3	598.9	594.8
10°	612.4	623.1	631.9	637.5	642.6	646.0	650.4
12.5°	652.3	665.4	673.9	681.7	687.0	691.3	692.0
15°	695.8	715.5	730.5	741.6	747.1	749.9	748.8
17.5°	739.6	757.9	768.6	779.8	787.4	787.8	788.1
20°	764.3	782.2	794.6	802.9	811.5	811.1	813.0
22.5°	780.9	795.0	804.5	810.5	813.4	812.0	812.4
25°	788.6	792.9	791.2	781.5	778.9	770.1	771.6
27.5°	748.7	729.0	708.5	682.2	661.5	644.9	645.7
30°	694.5	659.5	619.6	586.2	556.2	547.8	529.9
32.5°	618.6	566.2	519.5	488.3	462.6	455.6	440.0
35°	490.1	439.1	391.1	362.2	350.8	334.8	334.7
37.5°	380.9	336.1	310.7	289.0	277.7	268.0	267.1
40°	320.4	285.5	266.3	250.7	239.5	232.3	230.6
42.5°	278.2	250.0	232.0	222.3	213.7	209.9	207.2
45°	227.1	208.1	195.7	186.9	183.0	180.1	178.6
47.5°	190.0	177.3	168.8	162.9	159.7	156.7	157.5
50°	169.8	159.4	153.1	147.6	145.1	143.0	143.2
52.5°	153.5	144.1	139.1	135.1	132.1	130.5	129.9
55°	130.3	124.4	119.3	116.4	114.7	112.7	112.1
57.5°	111.1	106.6	102.4	99.2	98.7	96.8	97.0
60°	98.4	94.6	91.2	89.4	88.1	86.4	87.0
62.5°	87.9	84.7	81.6	80.2	78.8	77.6	77.9
65°	72.0	69.0	67.0	66.3	65.7	65.1	64.6
67.5°	57.4	55.5	54.3	52.7	51.5	51.4	50.8
70°	48.3	45.7	43.7	41.6	41.0	40.8	41.0
72.5°	38.6	37.1	36.5	35.5	35.4	34.9	35.2
75°	29.0	28.5	28.1	27.3	27.3	27.3	27.3
77.5°	21.4	21.1	20.9	20.7	20.5	20.2	20.2
80°	16.7	16.6	16.1	16.1	16.0	16.1	16.0
82.5°	12.6	12.6	12.2	12.2	12.0	11.9	12.0
85°	6.4	6.3	6.7	6.3	6.4	6.1	6.4
87.5°	7.5	7.7	7.7	7.7	7.7	8.1	7.8
90°	28.2	29.1	29.8	30.3	30.8	31.2	31.7
92.5°	42.9	43.6	43.9	43.5	43.3	43.0	42.7
95°	81.0	82.0	82.5	82.5	82.5	82.5	82.5
97.5°	125.7	126.8	127.3	127.2	127.1	127.0	126.9
100°	157.5	158.2	158.8	159.3	159.8	160.3	160.7
102.5°	194.8	195.5	195.8	195.7	195.6	195.5	195.4
105°	249.6	249.6	249.8	250.3	250.7	251.2	251.7
107.5°	310.4	311.1	311.4	311.1	310.8	310.5	310.2
110°	350.7	351.6	351.9	351.4	351.0	350.5	350.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	391.0	392.2	392.6	392.6	392.5	392.4	392.3
115°	451.2	451.4	451.4	451.2	450.9	450.7	450.5
117.5°	512.5	512.4	512.1	511.4	510.8	510.1	509.5
120°	553.4	553.2	552.8	552.4	551.9	551.4	550.9
122.5°	594.5	593.9	593.3	592.6	592.0	591.3	590.7
125°	656.0	655.0	654.1	653.1	652.2	651.3	650.3
127.5°	716.6	715.3	714.0	713.0	711.9	710.9	709.7
130°	757.5	756.5	755.2	753.6	752.0	750.3	748.7
132.5°	796.6	795.6	794.3	793.0	791.8	790.5	789.3
135°	855.8	854.8	854.2	853.7	853.2	852.7	852.3
137.5°	913.4	912.4	911.5	910.6	909.7	908.8	907.9
140°	952.0	951.8	950.9	949.3	947.5	945.9	944.3
142.5°	987.6	987.3	986.6	985.3	984.1	982.8	981.5
145°	1039.8	1039.6	1039.0	1038.0	1037.1	1036.2	1035.2
147.5°	1089.3	1089.3	1088.7	1087.3	1085.8	1084.4	1083.0
150°	1119.8	1119.8	1119.1	1117.7	1116.3	1114.8	1113.5
152.5°	1148.0	1148.3	1147.9	1146.7	1145.5	1144.3	1143.0
155°	1189.3	1190.2	1189.8	1188.2	1186.6	1184.9	1183.2
157.5°	1224.3	1225.3	1225.1	1223.8	1222.5	1221.2	1219.9
160°	1246.0	1247.2	1247.3	1246.3	1245.5	1244.5	1243.5
162.5°	1266.3	1267.5	1267.3	1265.8	1264.3	1262.8	1261.3
165°	1292.2	1293.6	1293.5	1291.8	1290.2	1288.5	1286.9
167.5°	1313.0	1314.5	1314.5	1313.0	1311.6	1310.1	1308.6
170°	1324.6	1326.2	1326.2	1324.6	1323.0	1321.3	1319.6
172.5°	1333.3	1334.8	1334.7	1333.1	1331.4	1329.8	1328.1
175°	1343.0	1344.3	1344.2	1342.6	1340.9	1339.3	1337.7
177.5°	1347.0	1348.1	1348.0	1346.6	1345.3	1344.0	1342.7
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1

(END OF REPORT)