

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: P331947-940

Luminaire Tested: **S123DIP-S560D1195U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331947-940
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: S123DIP-S560D1195U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5785.7 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

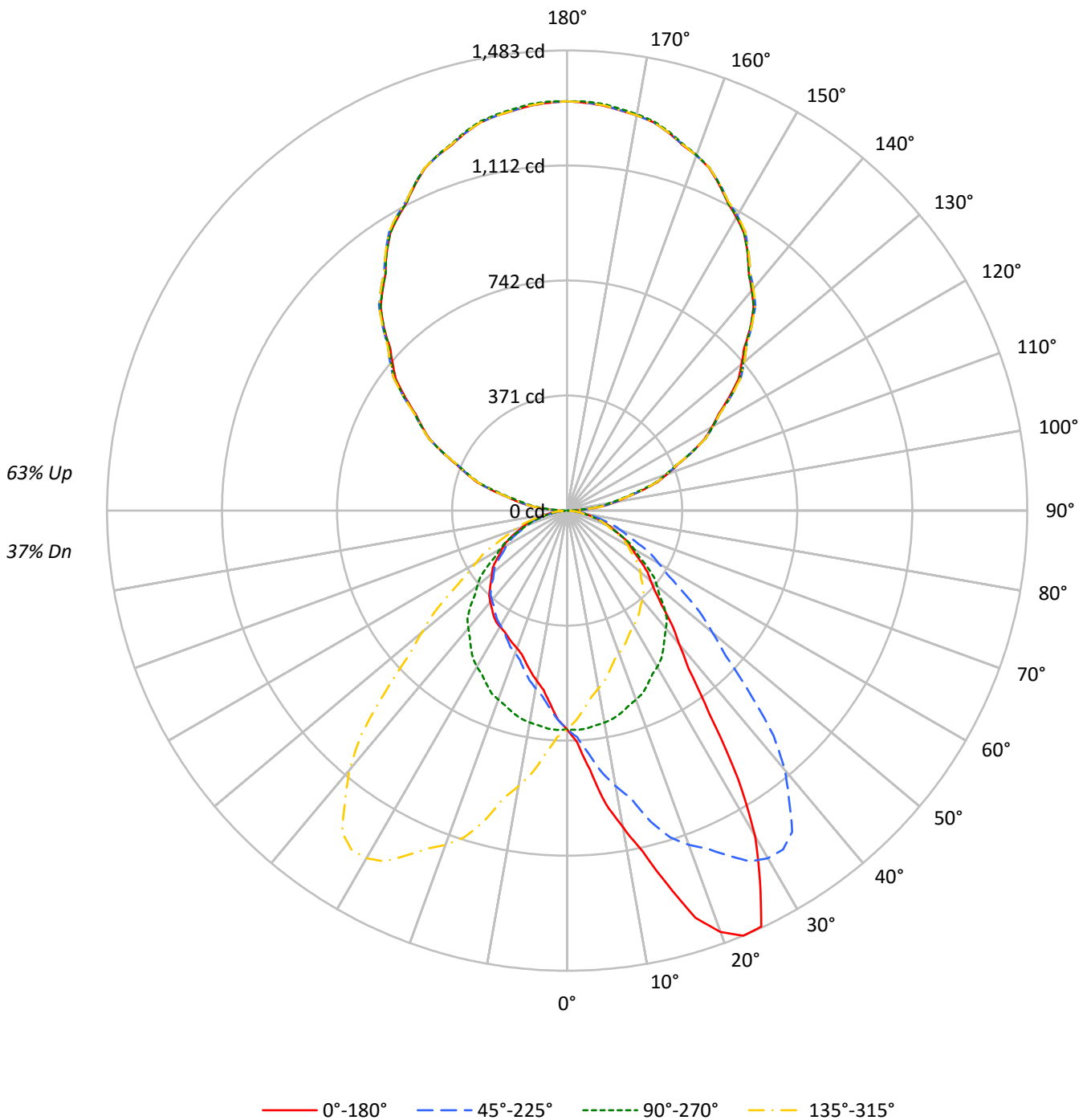
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				
1	95	91	87	84	86	83	79	77	67	65	63	52	51	50	39	38	38	31				
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27				
3	79	70	63	57	71	64	58	53	52	48	44	41	38	36	31	29	27	23				
4	72	62	54	49	65	57	50	45	46	41	38	37	33	30	28	25	24	20				
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	23	21	17				
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15				
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13				
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12				
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11				
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7587	7587	7587	7587
5°	9048	7621	6753	7621
10°	11326	7582	6099	7582
15°	13891	7520	5678	7520
20°	16549	7425	5407	7425
25°	17570	7310	5346	7310
30°	15060	7225	5374	7225
35°	10474	7104	5430	7104
40°	7888	6962	5413	6962
45°	6550	6753	5345	6753
50°	5868	6325	5297	6325
55°	5485	5864	5230	5864
60°	5147	5382	5175	5382
65°	4834	4905	5010	4905
70°	4535	4365	4771	4365
75°	4059	3818	4375	3818
80°	3552	3137	3769	3137
85°	2791	2285	2532	2285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.2
10°-20°	222.7	3.8
20°-30°	373.7	6.5
30°-40°	423.1	7.3
40°-50°	379.5	6.6
50°-60°	306.2	5.3
60°-70°	213.4	3.7
70°-80°	112.2	1.9
80°-90°	31.3	0.5
90°-100°	85.9	1.5
100°-110°	257.2	4.4
110°-120°	437.4	7.6
120°-130°	575.3	9.9
130°-140°	646.7	11.2
140°-150°	635.6	11.0
150°-160°	535.1	9.2
160°-170°	356.2	6.2
170°-180°	124.7	2.2
0°-30°	665.8	11.5
0°-40°	1088.9	18.8
0°-60°	1774.6	30.7
0°-90°	2131.4	36.8
90°-120°	780.5	13.5
90°-150°	2638.1	45.6
90°-180°	3654.0	63.2
0°-180°	5785.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	705	705	705	705	705	
5°	837	705	625	705	837	87
15°	1246	675	510	675	1246	360
25°	1479	616	450	616	1479	649
35°	797	541	413	541	797	518
45°	430	444	351	444	430	340
55°	292	312	279	312	292	262
65°	190	193	197	193	190	189
75°	98	92	105	92	98	105
85°	23	18	20	18	23	27
90°	31	1	31	1	31	16
95°	81	61	81	61	81	83
105°	247	233	247	233	247	262
115°	441	440	441	440	441	437
125°	637	644	637	644	637	570
135°	835	836	835	836	835	642
145°	1014	1014	1014	1014	1014	633
155°	1159	1162	1159	1162	1159	534
165°	1261	1265	1261	1265	1261	356
175°	1311	1316	1311	1316	1311	124
180°	1319	1319	1319	1319	1319	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	748.1	747.5	746.2	747.3	745.0	742.1	741.8	739.0	731.1	730.6	728.4
5°	837.4	834.6	834.4	834.0	829.2	822.7	810.4	809.4	793.0	784.8	774.9
7.5°	953.1	954.6	949.6	945.2	930.6	921.0	907.8	890.9	870.8	850.3	836.7
10°	1036.2	1047.4	1033.4	1023.9	1015.0	998.3	978.8	954.6	930.3	902.0	880.5
12.5°	1125.2	1130.8	1128.0	1118.9	1105.2	1079.7	1045.2	1018.5	996.1	949.0	929.9
15°	1246.5	1267.4	1254.1	1223.3	1224.1	1199.8	1154.7	1105.2	1078.9	1037.5	981.1
17.5°	1375.8	1378.4	1372.7	1347.1	1330.0	1296.7	1255.1	1207.6	1154.3	1104.4	1044.6
20°	1444.7	1442.6	1430.7	1417.3	1387.9	1362.0	1316.5	1263.6	1195.3	1146.1	1080.9
22.5°	1482.9	1479.4	1473.8	1462.7	1438.2	1410.3	1369.6	1311.7	1246.7	1178.9	1103.6
25°	1479.4	1483.9	1484.6	1481.5	1473.0	1456.3	1424.2	1378.0	1313.1	1226.1	1147.5
27.5°	1345.6	1351.8	1370.1	1386.3	1404.4	1422.8	1420.4	1397.5	1349.5	1274.3	1178.2
30°	1211.7	1198.0	1231.9	1274.5	1303.6	1354.8	1383.5	1385.2	1358.3	1293.7	1200.1
32.5°	1025.9	1041.0	1055.9	1108.4	1171.9	1229.4	1286.5	1332.5	1337.7	1294.8	1212.9
35°	797.1	815.9	843.2	870.6	938.9	997.6	1098.0	1185.4	1255.1	1264.3	1214.1
37.5°	642.3	651.7	668.9	696.2	740.9	810.7	888.3	998.8	1099.7	1174.8	1178.1
40°	561.4	564.2	583.6	604.5	640.7	698.0	768.1	865.8	986.7	1091.5	1135.2
42.5°	500.8	506.8	515.1	535.1	563.9	607.1	672.2	753.0	863.7	984.4	1069.9
45°	430.3	437.1	442.3	455.6	476.1	505.1	550.5	624.3	708.6	833.3	948.4
47.5°	383.7	384.2	388.1	398.1	412.1	433.9	466.0	513.4	590.8	691.9	810.1
50°	350.4	355.9	357.2	365.1	376.0	392.1	418.7	459.0	522.5	611.4	720.0
52.5°	326.9	328.5	332.3	338.0	347.6	360.1	383.2	414.7	464.6	540.3	640.2
55°	292.3	292.3	296.1	300.5	306.0	317.3	332.6	355.9	393.8	452.5	535.2
57.5°	260.4	262.1	264.7	266.1	270.7	278.2	291.1	308.7	337.0	382.2	447.9
60°	239.1	242.1	241.8	244.5	248.6	254.4	265.4	279.7	305.0	341.2	396.5
62.5°	220.5	220.3	220.3	223.5	227.6	233.1	240.2	252.6	274.1	306.2	353.3
65°	189.8	189.2	191.6	193.7	195.0	199.1	204.6	215.5	229.9	253.8	290.3
67.5°	162.7	160.7	162.0	162.7	165.1	168.3	173.3	180.1	191.5	210.7	238.3
70°	144.1	142.4	142.0	142.8	144.8	147.2	151.0	157.5	168.0	183.4	203.6
72.5°	125.0	123.9	123.8	125.3	126.3	127.8	130.5	136.4	144.8	156.3	175.1
75°	97.6	97.6	97.6	98.0	99.1	100.4	102.5	105.5	112.0	120.2	132.9
77.5°	73.2	73.1	72.8	72.7	74.2	74.8	75.3	78.1	81.8	87.3	96.5
80°	57.3	55.6	56.4	57.3	58.1	58.4	59.4	60.1	63.2	66.3	72.8
82.5°	42.6	41.2	41.3	42.9	43.1	43.3	44.4	45.4	46.5	49.3	52.8
85°	22.6	22.6	22.9	22.9	23.2	22.9	23.9	24.3	24.3	25.9	28.0
87.5°	14.4	13.7	14.0	14.2	13.7	13.9	14.0	14.1	14.2	14.3	13.9
90°	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.8	25.8	24.9	21.8
92.5°	41.8	42.1	42.4	42.7	43.0	42.7	42.0	41.3	40.5	39.8	38.1
95°	80.8	80.8	80.8	80.8	80.8	80.3	79.5	78.5	77.6	76.7	74.8
97.5°	124.3	124.4	124.5	124.6	124.7	124.2	123.1	122.1	121.0	119.9	118.6
100°	157.5	157.0	156.6	156.1	155.6	155.1	154.4	153.6	153.0	152.3	151.1
102.5°	191.5	191.5	191.6	191.7	191.8	191.5	190.8	190.1	189.5	188.8	187.3
105°	246.6	246.1	245.7	245.2	244.8	244.5	244.5	244.5	244.5	244.5	242.5
107.5°	304.0	304.3	304.5	304.8	305.1	304.9	304.2	303.4	302.6	301.9	301.0
110°	343.0	343.4	343.8	344.3	344.7	344.6	343.7	342.7	341.8	340.9	340.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	384.4	384.5	384.6	384.7	384.8	384.2	383.2	382.0	380.9	379.8	379.7
115°	441.4	441.6	441.8	442.0	442.3	442.3	442.0	441.8	441.6	441.4	441.8
117.5°	499.2	499.8	500.4	501.1	501.8	502.1	502.1	502.2	502.2	502.3	502.9
120°	539.8	540.3	540.7	541.2	541.6	542.0	542.2	542.4	542.7	542.9	544.0
122.5°	578.7	579.3	580.1	580.7	581.3	581.9	582.6	583.2	583.7	584.3	585.0
125°	637.2	638.1	639.0	640.0	640.9	641.8	642.7	643.6	644.5	645.5	646.0
127.5°	695.4	696.4	697.5	698.6	699.6	700.8	702.1	703.4	704.7	706.0	706.5
130°	733.5	735.1	736.7	738.3	739.9	741.3	742.2	743.1	744.0	744.9	745.6
132.5°	773.3	774.5	775.8	777.0	778.3	779.4	780.6	781.7	782.7	783.9	784.3
135°	835.1	835.5	836.0	836.4	836.9	837.6	838.5	839.5	840.3	841.2	841.5
137.5°	889.6	890.5	891.4	892.2	893.0	893.9	894.9	895.9	896.9	897.9	897.2
140°	925.2	926.8	928.4	930.1	931.7	932.6	932.8	933.0	933.3	933.5	933.3
142.5°	961.7	963.0	964.1	965.4	966.6	967.4	967.6	967.9	968.0	968.3	967.9
145°	1014.3	1015.2	1016.1	1017.1	1018.0	1018.6	1018.8	1019.0	1019.2	1019.5	1018.8
147.5°	1061.1	1062.5	1063.9	1065.2	1066.7	1067.4	1067.4	1067.4	1067.4	1067.4	1066.7
150°	1091.0	1092.3	1093.8	1095.1	1096.5	1097.2	1097.2	1097.2	1097.2	1097.2	1096.7
152.5°	1120.0	1121.1	1122.4	1123.6	1124.8	1125.2	1124.8	1124.4	1124.1	1123.7	1123.5
155°	1159.3	1161.0	1162.6	1164.2	1165.8	1166.2	1165.2	1164.3	1163.4	1162.4	1162.3
157.5°	1195.2	1196.5	1197.7	1199.1	1200.3	1200.5	1199.5	1198.5	1197.7	1196.7	1196.5
160°	1218.4	1219.3	1220.2	1221.2	1222.1	1222.0	1220.8	1219.7	1218.5	1217.4	1217.4
162.5°	1235.8	1237.2	1238.8	1240.2	1241.7	1241.9	1240.7	1239.6	1238.4	1237.2	1237.1
165°	1260.9	1262.5	1264.1	1265.7	1267.3	1267.5	1266.1	1264.7	1263.3	1261.9	1261.9
167.5°	1282.2	1283.6	1285.0	1286.5	1287.9	1287.9	1286.5	1285.0	1283.6	1282.2	1282.0
170°	1293.0	1294.6	1296.2	1297.9	1299.5	1299.5	1297.9	1296.2	1294.6	1293.0	1293.0
172.5°	1301.3	1302.9	1304.5	1306.1	1307.8	1307.9	1306.4	1305.0	1303.6	1302.2	1302.2
175°	1310.6	1312.2	1313.8	1315.5	1317.1	1317.1	1315.8	1314.4	1313.0	1311.6	1311.6
177.5°	1315.6	1316.9	1318.1	1319.5	1320.7	1320.8	1319.7	1318.7	1317.5	1316.4	1316.4
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	726.7	724.6	722.4	718.5	715.2	710.6	709.3	707.7	702.8	698.3	695.1
5°	771.2	762.9	751.0	740.0	731.2	719.3	712.4	705.3	695.0	685.8	678.2
7.5°	817.6	801.5	782.9	762.9	744.1	726.0	711.5	698.6	684.2	670.6	660.0
10°	854.5	831.3	805.3	777.3	753.4	730.1	710.7	693.7	675.2	659.2	645.8
12.5°	896.5	862.1	826.3	792.3	764.0	731.8	708.3	686.5	665.7	646.3	631.3
15°	946.4	902.7	860.3	813.5	770.4	730.1	702.1	674.8	650.6	630.8	611.6
17.5°	991.7	942.2	886.4	829.5	777.6	729.8	690.5	659.7	629.4	605.1	586.0
20°	1017.4	961.0	897.9	838.7	781.4	728.1	685.1	648.2	615.5	589.8	568.3
22.5°	1039.6	973.6	908.2	845.1	781.1	723.7	675.0	637.0	601.5	576.4	553.6
25°	1062.5	983.6	918.0	843.9	772.5	713.1	658.4	615.5	579.9	550.5	527.0
27.5°	1082.2	982.9	905.1	825.4	759.0	699.5	641.1	594.9	557.2	525.3	501.4
30°	1095.3	984.3	891.7	812.8	745.9	684.4	627.7	581.3	541.6	509.2	486.7
32.5°	1103.5	983.5	879.4	795.3	725.1	670.7	613.2	565.2	524.4	492.6	470.8
35°	1108.2	977.4	858.3	759.2	691.6	638.6	590.5	540.6	497.9	468.2	443.6
37.5°	1098.7	964.8	833.7	724.3	650.3	598.2	557.7	515.2	474.4	441.7	420.4
40°	1083.6	956.6	814.5	699.8	621.9	571.7	537.3	495.5	455.2	424.2	404.4
42.5°	1055.0	940.0	793.5	672.4	592.4	542.2	510.4	475.6	437.5	408.3	388.5
45°	985.0	903.7	762.0	631.5	548.8	497.0	469.0	443.6	409.1	380.8	363.7
47.5°	887.8	849.1	716.3	588.3	503.4	453.4	424.3	403.9	378.7	355.9	339.5
50°	820.4	804.3	685.5	558.7	473.0	424.2	396.2	377.7	359.6	336.7	321.7
52.5°	742.4	752.3	649.3	528.2	442.1	394.1	367.7	353.1	336.7	317.9	304.8
55°	632.8	668.7	587.1	476.8	396.2	350.4	325.5	312.5	302.9	288.9	277.7
57.5°	530.2	575.8	519.7	423.8	351.0	311.6	287.7	273.5	267.3	260.0	251.2
60°	469.2	514.3	471.6	388.3	320.7	283.1	262.0	250.0	243.9	238.7	231.2
62.5°	414.9	460.5	424.6	352.2	290.9	256.1	237.6	226.0	221.1	218.5	212.0
65°	340.2	379.4	355.5	296.1	248.3	217.6	200.8	192.6	188.2	187.2	183.1
67.5°	276.9	306.7	289.4	245.6	207.9	181.4	167.2	160.2	156.9	156.5	153.4
70°	235.3	263.3	250.0	210.4	177.9	157.1	144.8	138.7	136.6	136.3	134.6
72.5°	203.0	222.6	212.0	179.0	153.9	135.0	125.9	119.5	117.2	117.7	116.5
75°	150.3	165.0	158.8	135.9	115.7	103.4	95.9	91.8	89.8	90.9	89.4
77.5°	108.2	117.4	111.9	96.0	83.6	74.7	69.2	66.7	64.8	64.7	64.1
80°	81.6	87.1	84.0	74.5	64.2	56.7	52.3	50.6	49.5	49.2	48.9
82.5°	58.1	62.8	59.1	52.6	45.7	41.1	38.6	36.4	35.6	35.8	35.5
85°	29.3	31.1	29.7	25.6	22.9	20.9	19.4	18.5	17.7	18.1	17.4
87.5°	13.9	13.6	12.1	10.5	9.5	8.2	7.8	6.8	6.7	7.1	7.3
90°	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1	3.3	5.6	7.9
92.5°	36.4	34.7	33.0	31.3	29.8	28.2	26.7	25.1	26.7	28.2	29.8
95°	72.9	71.2	69.3	67.6	66.0	64.4	62.8	61.2	62.8	64.4	66.0
97.5°	117.3	116.0	114.7	113.3	112.2	111.0	109.8	108.6	109.8	111.0	112.2
100°	150.0	148.8	147.7	146.4	145.1	143.7	142.3	140.9	142.3	143.7	145.1
102.5°	185.7	184.2	182.7	181.6	180.7	179.9	179.1	178.2	179.1	179.9	180.7
105°	240.4	238.3	236.2	235.0	234.5	234.1	233.5	233.1	233.5	234.1	234.5
107.5°	300.2	299.4	298.6	298.0	297.7	297.5	297.2	296.9	297.2	297.5	297.7
110°	339.9	339.5	339.0	338.6	338.1	337.6	337.2	336.7	337.2	337.6	338.1



TEST NUMBER: P331947-940

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	379.6	379.5	379.4	379.2	379.0	378.7	378.4	378.2	378.4	378.7	379.0
115°	442.3	442.7	443.2	443.1	442.4	441.7	441.0	440.3	441.0	441.7	442.4
117.5°	503.5	504.1	504.7	504.7	504.3	503.8	503.4	502.9	503.4	503.8	504.3
120°	545.2	546.4	547.5	547.4	546.0	544.7	543.2	541.9	543.2	544.7	546.0
122.5°	585.5	586.1	586.7	586.6	585.5	584.5	583.4	582.5	583.4	584.5	585.5
125°	646.4	646.8	647.3	647.2	646.5	645.8	645.2	644.4	645.2	645.8	646.5
127.5°	706.9	707.5	708.0	707.5	706.1	704.5	703.1	701.6	703.1	704.5	706.1
130°	746.3	747.0	747.7	747.1	745.3	743.4	741.5	739.8	741.5	743.4	745.3
132.5°	784.9	785.4	786.0	785.2	783.4	781.6	779.7	777.8	779.7	781.6	783.4
135°	841.8	842.0	842.2	841.6	840.3	838.8	837.5	836.1	837.5	838.8	840.3
137.5°	896.6	896.1	895.5	894.6	893.4	892.2	891.1	890.0	891.1	892.2	893.4
140°	933.0	932.8	932.6	931.8	930.8	929.6	928.4	927.3	928.4	929.6	930.8
142.5°	967.5	967.1	966.6	965.9	964.7	963.6	962.4	961.3	962.4	963.6	964.7
145°	1018.1	1017.4	1016.7	1016.1	1015.7	1015.2	1014.8	1014.3	1014.8	1015.2	1015.7
147.5°	1066.0	1065.4	1064.8	1064.1	1063.2	1062.4	1061.6	1060.7	1061.6	1062.4	1063.2
150°	1096.3	1095.8	1095.4	1094.9	1094.4	1094.0	1093.5	1093.1	1093.5	1094.0	1094.4
152.5°	1123.2	1122.8	1122.6	1122.1	1121.5	1120.9	1120.3	1119.5	1120.3	1120.9	1121.5
155°	1162.0	1161.8	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5
157.5°	1196.3	1196.1	1195.9	1196.0	1196.2	1196.5	1196.8	1197.0	1196.8	1196.5	1196.2
160°	1217.4	1217.4	1217.4	1217.6	1218.1	1218.5	1219.0	1219.4	1219.0	1218.5	1218.1
162.5°	1236.9	1236.7	1236.5	1236.8	1237.4	1238.1	1238.7	1239.3	1238.7	1238.1	1237.4
165°	1261.9	1261.9	1261.9	1262.3	1262.9	1263.6	1264.4	1265.1	1264.4	1263.6	1262.9
167.5°	1281.8	1281.7	1281.5	1281.8	1282.8	1283.7	1284.6	1285.6	1284.6	1283.7	1282.8
170°	1293.0	1293.0	1293.0	1293.4	1294.4	1295.3	1296.2	1297.2	1296.2	1295.3	1294.4
172.5°	1302.2	1302.2	1302.2	1302.6	1303.5	1304.4	1305.4	1306.3	1305.4	1304.4	1303.5
175°	1311.6	1311.6	1311.6	1312.2	1313.0	1313.9	1314.9	1315.8	1314.9	1313.9	1313.0
177.5°	1316.4	1316.4	1316.4	1316.8	1317.5	1318.3	1319.0	1319.7	1319.0	1318.3	1317.5
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



TEST NUMBER: P331947-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	693.1	691.3	688.5	684.4	681.1	675.9	675.9	676.7	676.7	676.5	675.9
5°	672.1	667.0	660.8	653.7	646.1	638.6	637.3	634.5	632.5	631.2	629.5
7.5°	649.9	640.9	631.9	621.9	612.7	605.1	599.9	595.5	592.6	589.7	587.5
10°	634.9	623.6	613.1	602.4	590.8	581.6	575.8	571.7	568.6	565.9	564.5
12.5°	617.2	604.2	592.5	582.5	569.8	560.3	554.7	552.9	549.2	543.5	540.5
15°	591.2	579.3	565.3	549.8	543.7	532.1	525.6	522.5	520.5	516.0	514.7
17.5°	569.0	553.3	537.6	526.1	514.7	505.3	501.7	497.8	495.2	491.5	490.4
20°	551.3	537.3	522.9	510.6	498.6	488.4	485.3	482.6	479.8	478.1	476.8
22.5°	533.2	519.2	507.3	495.8	483.0	476.4	473.0	470.0	468.1	466.9	465.6
25°	507.8	495.5	482.2	472.0	461.7	457.3	455.2	453.5	452.2	450.5	450.1
27.5°	485.2	471.8	461.0	451.4	444.1	440.3	438.4	437.6	437.8	438.5	438.8
30°	468.2	455.9	447.0	438.8	432.0	428.6	428.3	428.3	429.6	430.0	430.7
32.5°	452.6	442.6	433.6	425.7	420.5	418.2	419.5	419.5	420.6	421.5	422.8
35°	430.0	421.1	414.3	407.4	403.0	404.0	404.7	405.4	407.1	409.1	410.5
37.5°	408.3	400.6	393.5	388.2	386.1	388.0	389.6	391.0	393.1	394.6	395.9
40°	392.7	386.9	380.1	375.3	376.0	377.0	378.4	380.1	381.8	382.8	384.2
42.5°	378.3	372.2	367.0	363.0	364.0	365.3	366.1	367.0	369.0	370.9	371.7
45°	356.2	351.4	346.6	344.3	344.9	345.6	346.3	347.3	349.0	350.4	350.7
47.5°	331.4	328.1	324.9	322.5	323.6	323.3	324.2	326.5	327.0	327.8	329.7
50°	315.6	312.5	308.7	308.1	308.1	308.1	308.4	311.1	311.1	312.5	313.9
52.5°	298.1	296.1	293.7	292.5	291.9	291.9	293.4	294.7	295.2	297.2	298.5
55°	272.2	270.1	268.1	267.1	266.4	267.1	269.8	270.5	272.2	273.2	274.2
57.5°	245.2	243.6	242.0	241.5	241.3	242.2	243.7	245.8	246.2	249.3	250.8
60°	227.5	225.1	223.7	223.7	223.0	226.0	225.4	228.8	229.5	231.6	234.0
62.5°	209.1	205.9	205.4	205.4	206.3	207.2	208.2	209.7	211.5	214.1	215.9
65°	179.7	177.9	180.3	179.9	179.3	181.4	181.4	183.1	185.1	187.5	191.3
67.5°	151.7	150.8	151.1	151.1	152.0	153.2	154.2	155.7	158.1	160.7	163.1
70°	132.9	133.8	132.2	133.6	134.6	134.9	135.5	137.6	140.4	142.0	144.8
72.5°	114.6	114.5	114.7	115.2	116.3	116.9	117.5	119.8	122.9	124.3	126.5
75°	88.1	87.7	88.8	88.8	90.5	91.2	91.8	92.9	95.6	97.6	99.4
77.5°	64.4	64.7	64.6	65.7	65.3	65.4	67.5	68.5	68.8	72.9	73.7
80°	48.5	49.2	49.5	49.8	50.2	49.5	51.9	53.0	53.0	55.3	57.1
82.5°	34.9	35.2	36.1	36.5	36.6	37.2	37.5	38.2	39.0	40.0	42.3
85°	17.4	18.5	18.8	18.5	18.8	18.1	19.1	19.4	19.8	19.8	19.8
87.5°	7.5	8.3	8.6	9.5	9.8	10.7	10.9	10.5	10.7	11.7	10.8
90°	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.8	27.6	28.5	29.2
92.5°	31.3	33.0	34.7	36.4	38.1	39.8	40.5	41.3	42.0	42.7	43.0
95°	67.6	69.3	71.2	72.9	74.8	76.7	77.6	78.5	79.5	80.3	80.8
97.5°	113.3	114.7	116.0	117.3	118.6	119.9	121.0	122.1	123.1	124.2	124.7
100°	146.4	147.7	148.8	150.0	151.1	152.3	153.0	153.6	154.4	155.1	155.6
102.5°	181.6	182.7	184.2	185.7	187.3	188.8	189.5	190.1	190.8	191.5	191.8
105°	235.0	236.2	238.3	240.4	242.5	244.5	244.5	244.5	244.5	244.5	244.8
107.5°	298.0	298.6	299.4	300.2	301.0	301.9	302.6	303.4	304.2	304.9	305.1
110°	338.6	339.0	339.5	339.9	340.4	340.9	341.8	342.7	343.7	344.6	344.7



TEST NUMBER: P331947-940

CATALOG NUMBER: S123DIP-S560D1195U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	379.2	379.4	379.5	379.6	379.7	379.8	380.9	382.0	383.2	384.2	384.8
115°	443.1	443.2	442.7	442.3	441.8	441.4	441.6	441.8	442.0	442.3	442.3
117.5°	504.7	504.7	504.1	503.5	502.9	502.3	502.2	502.2	502.1	502.1	501.8
120°	547.4	547.5	546.4	545.2	544.0	542.9	542.7	542.4	542.2	542.0	541.6
122.5°	586.6	586.7	586.1	585.5	585.0	584.3	583.7	583.2	582.6	581.9	581.3
125°	647.2	647.3	646.8	646.4	646.0	645.5	644.5	643.6	642.7	641.8	640.9
127.5°	707.5	708.0	707.5	706.9	706.5	706.0	704.7	703.4	702.1	700.8	699.6
130°	747.1	747.7	747.0	746.3	745.6	744.9	744.0	743.1	742.2	741.3	739.9
132.5°	785.2	786.0	785.4	784.9	784.3	783.9	782.7	781.7	780.6	779.4	778.3
135°	841.6	842.2	842.0	841.8	841.5	841.2	840.3	839.5	838.5	837.6	836.9
137.5°	894.6	895.5	896.1	896.6	897.2	897.9	896.9	895.9	894.9	893.9	893.0
140°	931.8	932.6	932.8	933.0	933.3	933.5	933.3	933.0	932.8	932.6	931.7
142.5°	965.9	966.6	967.1	967.5	967.9	968.3	968.0	967.9	967.6	967.4	966.6
145°	1016.1	1016.7	1017.4	1018.1	1018.8	1019.5	1019.2	1019.0	1018.8	1018.6	1018.0
147.5°	1064.1	1064.8	1065.4	1066.0	1066.7	1067.4	1067.4	1067.4	1067.4	1067.4	1066.7
150°	1094.9	1095.4	1095.8	1096.3	1096.7	1097.2	1097.2	1097.2	1097.2	1097.2	1096.5
152.5°	1122.1	1122.6	1122.8	1123.2	1123.5	1123.7	1124.1	1124.4	1124.8	1125.2	1124.8
155°	1161.5	1161.5	1161.8	1162.0	1162.3	1162.4	1163.4	1164.3	1165.2	1166.2	1165.8
157.5°	1196.0	1195.9	1196.1	1196.3	1196.5	1196.7	1197.7	1198.5	1199.5	1200.5	1200.3
160°	1217.6	1217.4	1217.4	1217.4	1217.4	1217.4	1218.5	1219.7	1220.8	1222.0	1222.1
162.5°	1236.8	1236.5	1236.7	1236.9	1237.1	1237.2	1238.4	1239.6	1240.7	1241.9	1241.7
165°	1262.3	1261.9	1261.9	1261.9	1261.9	1261.9	1263.3	1264.7	1266.1	1267.5	1267.3
167.5°	1281.8	1281.5	1281.7	1281.8	1282.0	1282.2	1283.6	1285.0	1286.5	1287.9	1287.9
170°	1293.4	1293.0	1293.0	1293.0	1293.0	1293.0	1294.6	1296.2	1297.9	1299.5	1299.5
172.5°	1302.6	1302.2	1302.2	1302.2	1302.2	1302.2	1303.6	1305.0	1306.4	1307.9	1307.8
175°	1312.2	1311.6	1311.6	1311.6	1311.6	1311.6	1313.0	1314.4	1315.8	1317.1	1317.1
177.5°	1316.8	1316.4	1316.4	1316.4	1316.4	1316.4	1317.5	1318.7	1319.7	1320.8	1320.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



TEST NUMBER: P331947-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	674.0	673.8	675.6	674.3	675.6	673.8	674.0	675.9	676.5	676.7	676.7
5°	627.4	628.4	625.0	625.0	625.0	628.4	627.4	629.5	631.2	632.5	634.5
7.5°	585.9	584.3	584.5	582.6	584.5	584.3	585.9	587.5	589.7	592.6	595.5
10°	560.4	558.4	557.7	558.0	557.7	558.4	560.4	564.5	565.9	568.6	571.7
12.5°	539.4	539.0	534.5	534.6	534.5	539.0	539.4	540.5	543.5	549.2	552.9
15°	514.7	508.2	507.5	509.5	507.5	508.2	514.7	514.7	516.0	520.5	522.5
17.5°	489.9	486.4	486.7	485.6	486.7	486.4	489.9	490.4	491.5	495.2	497.8
20°	476.8	474.7	474.4	472.0	474.4	474.7	476.8	476.8	478.1	479.8	482.6
22.5°	464.8	464.0	464.2	461.6	464.2	464.0	464.8	465.6	466.9	468.1	470.0
25°	449.8	451.5	450.1	450.1	450.1	451.5	449.8	450.1	450.5	452.2	453.5
27.5°	439.7	439.6	438.9	438.9	438.9	439.6	439.7	438.8	438.5	437.8	437.6
30°	432.0	431.7	432.4	432.4	432.4	431.7	432.0	430.7	430.0	429.6	428.3
32.5°	424.4	424.8	425.0	425.3	425.0	424.8	424.4	422.8	421.5	420.6	419.5
35°	412.6	412.9	413.9	413.2	413.9	412.9	412.6	410.5	409.1	407.1	405.4
37.5°	396.5	398.1	397.8	398.3	397.8	398.1	396.5	395.9	394.6	393.1	391.0
40°	384.6	385.6	385.2	385.2	385.2	385.6	384.6	384.2	382.8	381.8	380.1
42.5°	372.3	373.0	372.1	371.6	372.1	373.0	372.3	371.7	370.9	369.0	367.0
45°	352.1	351.4	352.5	351.1	352.5	351.4	352.1	350.7	350.4	349.0	347.3
47.5°	329.6	330.3	330.6	331.5	330.6	330.3	329.6	329.7	327.8	327.0	326.5
50°	314.5	316.6	316.6	316.3	316.6	316.6	314.5	313.9	312.5	311.1	311.1
52.5°	299.8	300.8	302.1	302.0	302.1	300.8	299.8	298.5	297.2	295.2	294.7
55°	277.0	277.7	278.3	278.7	278.3	277.7	277.0	274.2	273.2	272.2	270.5
57.5°	253.3	253.1	254.7	255.2	254.7	253.1	253.3	250.8	249.3	246.2	245.8
60°	236.7	236.7	239.4	240.4	239.4	236.7	236.7	234.0	231.6	229.5	228.8
62.5°	218.9	220.0	222.7	221.3	222.7	220.0	218.9	215.9	214.1	211.5	209.7
65°	193.0	195.7	195.4	196.7	195.4	195.7	193.0	191.3	187.5	185.1	183.1
67.5°	165.9	167.6	170.0	170.2	170.0	167.6	165.9	163.1	160.7	158.1	155.7
70°	147.6	149.3	150.6	151.6	150.6	149.3	147.6	144.8	142.0	140.4	137.6
72.5°	129.7	130.6	133.9	132.5	133.9	130.6	129.7	126.5	124.3	122.9	119.8
75°	101.7	104.2	106.2	105.2	106.2	104.2	101.7	99.4	97.6	95.6	92.9
77.5°	75.3	77.7	78.6	77.8	78.6	77.7	75.3	73.7	72.9	68.8	68.5
80°	59.4	59.1	61.2	60.8	61.2	59.1	59.4	57.1	55.3	53.0	53.0
82.5°	43.6	43.2	44.2	44.4	44.2	43.2	43.6	42.3	40.0	39.0	38.2
85°	21.1	22.2	20.9	20.5	20.9	22.2	21.1	19.8	19.8	19.8	19.4
87.5°	10.9	11.0	10.8	10.6	10.8	11.0	10.9	10.8	11.7	10.7	10.5
90°	29.7	30.1	30.6	31.1	30.6	30.1	29.7	29.2	28.5	27.6	26.8
92.5°	42.7	42.4	42.1	41.8	42.1	42.4	42.7	43.0	42.7	42.0	41.3
95°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.3	79.5	78.5
97.5°	124.6	124.5	124.4	124.3	124.4	124.5	124.6	124.7	124.2	123.1	122.1
100°	156.1	156.6	157.0	157.5	157.0	156.6	156.1	155.6	155.1	154.4	153.6
102.5°	191.7	191.6	191.5	191.5	191.5	191.6	191.7	191.8	191.5	190.8	190.1
105°	245.2	245.7	246.1	246.6	246.1	245.7	245.2	244.8	244.5	244.5	244.5
107.5°	304.8	304.5	304.3	304.0	304.3	304.5	304.8	305.1	304.9	304.2	303.4
110°	344.3	343.8	343.4	343.0	343.4	343.8	344.3	344.7	344.6	343.7	342.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	384.7	384.6	384.5	384.4	384.5	384.6	384.7	384.8	384.2	383.2	382.0
115°	442.0	441.8	441.6	441.4	441.6	441.8	442.0	442.3	442.3	442.0	441.8
117.5°	501.1	500.4	499.8	499.2	499.8	500.4	501.1	501.8	502.1	502.1	502.2
120°	541.2	540.7	540.3	539.8	540.3	540.7	541.2	541.6	542.0	542.2	542.4
122.5°	580.7	580.1	579.3	578.7	579.3	580.1	580.7	581.3	581.9	582.6	583.2
125°	640.0	639.0	638.1	637.2	638.1	639.0	640.0	640.9	641.8	642.7	643.6
127.5°	698.6	697.5	696.4	695.4	696.4	697.5	698.6	699.6	700.8	702.1	703.4
130°	738.3	736.7	735.1	733.5	735.1	736.7	738.3	739.9	741.3	742.2	743.1
132.5°	777.0	775.8	774.5	773.3	774.5	775.8	777.0	778.3	779.4	780.6	781.7
135°	836.4	836.0	835.5	835.1	835.5	836.0	836.4	836.9	837.6	838.5	839.5
137.5°	892.2	891.4	890.5	889.6	890.5	891.4	892.2	893.0	893.9	894.9	895.9
140°	930.1	928.4	926.8	925.2	926.8	928.4	930.1	931.7	932.6	932.8	933.0
142.5°	965.4	964.1	963.0	961.7	963.0	964.1	965.4	966.6	967.4	967.6	967.9
145°	1017.1	1016.1	1015.2	1014.3	1015.2	1016.1	1017.1	1018.0	1018.6	1018.8	1019.0
147.5°	1065.2	1063.9	1062.5	1061.1	1062.5	1063.9	1065.2	1066.7	1067.4	1067.4	1067.4
150°	1095.1	1093.8	1092.3	1091.0	1092.3	1093.8	1095.1	1096.5	1097.2	1097.2	1097.2
152.5°	1123.6	1122.4	1121.1	1120.0	1121.1	1122.4	1123.6	1124.8	1125.2	1124.8	1124.4
155°	1164.2	1162.6	1161.0	1159.3	1161.0	1162.6	1164.2	1165.8	1166.2	1165.2	1164.3
157.5°	1199.1	1197.7	1196.5	1195.2	1196.5	1197.7	1199.1	1200.3	1200.5	1199.5	1198.5
160°	1221.2	1220.2	1219.3	1218.4	1219.3	1220.2	1221.2	1222.1	1222.0	1220.8	1219.7
162.5°	1240.2	1238.8	1237.2	1235.8	1237.2	1238.8	1240.2	1241.7	1241.9	1240.7	1239.6
165°	1265.7	1264.1	1262.5	1260.9	1262.5	1264.1	1265.7	1267.3	1267.5	1266.1	1264.7
167.5°	1286.5	1285.0	1283.6	1282.2	1283.6	1285.0	1286.5	1287.9	1287.9	1286.5	1285.0
170°	1297.9	1296.2	1294.6	1293.0	1294.6	1296.2	1297.9	1299.5	1299.5	1297.9	1296.2
172.5°	1306.1	1304.5	1302.9	1301.3	1302.9	1304.5	1306.1	1307.8	1307.9	1306.4	1305.0
175°	1315.5	1313.8	1312.2	1310.6	1312.2	1313.8	1315.5	1317.1	1317.1	1315.8	1314.4
177.5°	1319.5	1318.1	1316.9	1315.6	1316.9	1318.1	1319.5	1320.7	1320.8	1319.7	1318.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



TEST NUMBER: P331947-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	675.9	675.9	681.1	684.4	688.5	691.3	693.1	695.1	698.3	702.8	707.7
5°	637.3	638.6	646.1	653.7	660.8	667.0	672.1	678.2	685.8	695.0	705.3
7.5°	599.9	605.1	612.7	621.9	631.9	640.9	649.9	660.0	670.6	684.2	698.6
10°	575.8	581.6	590.8	602.4	613.1	623.6	634.9	645.8	659.2	675.2	693.7
12.5°	554.7	560.3	569.8	582.5	592.5	604.2	617.2	631.3	646.3	665.7	686.5
15°	525.6	532.1	543.7	549.8	565.3	579.3	591.2	611.6	630.8	650.6	674.8
17.5°	501.7	505.3	514.7	526.1	537.6	553.3	569.0	586.0	605.1	629.4	659.7
20°	485.3	488.4	498.6	510.6	522.9	537.3	551.3	568.3	589.8	615.5	648.2
22.5°	473.0	476.4	483.0	495.8	507.3	519.2	533.2	553.6	576.4	601.5	637.0
25°	455.2	457.3	461.7	472.0	482.2	495.5	507.8	527.0	550.5	579.9	615.5
27.5°	438.4	440.3	444.1	451.4	461.0	471.8	485.2	501.4	525.3	557.2	594.9
30°	428.3	428.6	432.0	438.8	447.0	455.9	468.2	486.7	509.2	541.6	581.3
32.5°	419.5	418.2	420.5	425.7	433.6	442.6	452.6	470.8	492.6	524.4	565.2
35°	404.7	404.0	403.0	407.4	414.3	421.1	430.0	443.6	468.2	497.9	540.6
37.5°	389.6	388.0	386.1	388.2	393.5	400.6	408.3	420.4	441.7	474.4	515.2
40°	378.4	377.0	376.0	375.3	380.1	386.9	392.7	404.4	424.2	455.2	495.5
42.5°	366.1	365.3	364.0	363.0	367.0	372.2	378.3	388.5	408.3	437.5	475.6
45°	346.3	345.6	344.9	344.3	346.6	351.4	356.2	363.7	380.8	409.1	443.6
47.5°	324.2	323.3	323.6	322.5	324.9	328.1	331.4	339.5	355.9	378.7	403.9
50°	308.4	308.1	308.1	308.1	308.7	312.5	315.6	321.7	336.7	359.6	377.7
52.5°	293.4	291.9	291.9	292.5	293.7	296.1	298.1	304.8	317.9	336.7	353.1
55°	269.8	267.1	266.4	267.1	268.1	270.1	272.2	277.7	288.9	302.9	312.5
57.5°	243.7	242.2	241.3	241.5	242.0	243.6	245.2	251.2	260.0	267.3	273.5
60°	225.4	226.0	223.0	223.7	223.7	225.1	227.5	231.2	238.7	243.9	250.0
62.5°	208.2	207.2	206.3	205.4	205.4	205.9	209.1	212.0	218.5	221.1	226.0
65°	181.4	181.4	179.3	179.9	180.3	177.9	179.7	183.1	187.2	188.2	192.6
67.5°	154.2	153.2	152.0	151.1	151.1	150.8	151.7	153.4	156.5	156.9	160.2
70°	135.5	134.9	134.6	133.6	132.2	133.8	132.9	134.6	136.3	136.6	138.7
72.5°	117.5	116.9	116.3	115.2	114.7	114.5	114.6	116.5	117.7	117.2	119.5
75°	91.8	91.2	90.5	88.8	88.8	87.7	88.1	89.4	90.9	89.8	91.8
77.5°	67.5	65.4	65.3	65.7	64.6	64.7	64.4	64.1	64.7	64.8	66.7
80°	51.9	49.5	50.2	49.8	49.5	49.2	48.5	48.9	49.2	49.5	50.6
82.5°	37.5	37.2	36.6	36.5	36.1	35.2	34.9	35.5	35.8	35.6	36.4
85°	19.1	18.1	18.8	18.5	18.8	18.5	17.4	17.4	18.1	17.7	18.5
87.5°	10.9	10.7	9.8	9.5	8.6	8.3	7.5	7.3	7.1	6.7	6.8
90°	25.8	24.9	21.8	18.9	15.9	12.9	10.3	7.9	5.6	3.3	1.1
92.5°	40.5	39.8	38.1	36.4	34.7	33.0	31.3	29.8	28.2	26.7	25.1
95°	77.6	76.7	74.8	72.9	71.2	69.3	67.6	66.0	64.4	62.8	61.2
97.5°	121.0	119.9	118.6	117.3	116.0	114.7	113.3	112.2	111.0	109.8	108.6
100°	153.0	152.3	151.1	150.0	148.8	147.7	146.4	145.1	143.7	142.3	140.9
102.5°	189.5	188.8	187.3	185.7	184.2	182.7	181.6	180.7	179.9	179.1	178.2
105°	244.5	244.5	242.5	240.4	238.3	236.2	235.0	234.5	234.1	233.5	233.1
107.5°	302.6	301.9	301.0	300.2	299.4	298.6	298.0	297.7	297.5	297.2	296.9
110°	341.8	340.9	340.4	339.9	339.5	339.0	338.6	338.1	337.6	337.2	336.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	380.9	379.8	379.7	379.6	379.5	379.4	379.2	379.0	378.7	378.4	378.2
115°	441.6	441.4	441.8	442.3	442.7	443.2	443.1	442.4	441.7	441.0	440.3
117.5°	502.2	502.3	502.9	503.5	504.1	504.7	504.7	504.3	503.8	503.4	502.9
120°	542.7	542.9	544.0	545.2	546.4	547.5	547.4	546.0	544.7	543.2	541.9
122.5°	583.7	584.3	585.0	585.5	586.1	586.7	586.6	585.5	584.5	583.4	582.5
125°	644.5	645.5	646.0	646.4	646.8	647.3	647.2	646.5	645.8	645.2	644.4
127.5°	704.7	706.0	706.5	706.9	707.5	708.0	707.5	706.1	704.5	703.1	701.6
130°	744.0	744.9	745.6	746.3	747.0	747.7	747.1	745.3	743.4	741.5	739.8
132.5°	782.7	783.9	784.3	784.9	785.4	786.0	785.2	783.4	781.6	779.7	777.8
135°	840.3	841.2	841.5	841.8	842.0	842.2	841.6	840.3	838.8	837.5	836.1
137.5°	896.9	897.9	897.2	896.6	896.1	895.5	894.6	893.4	892.2	891.1	890.0
140°	933.3	933.5	933.3	933.0	932.8	932.6	931.8	930.8	929.6	928.4	927.3
142.5°	968.0	968.3	967.9	967.5	967.1	966.6	965.9	964.7	963.6	962.4	961.3
145°	1019.2	1019.5	1018.8	1018.1	1017.4	1016.7	1016.1	1015.7	1015.2	1014.8	1014.3
147.5°	1067.4	1067.4	1066.7	1066.0	1065.4	1064.8	1064.1	1063.2	1062.4	1061.6	1060.7
150°	1097.2	1097.2	1096.7	1096.3	1095.8	1095.4	1094.9	1094.4	1094.0	1093.5	1093.1
152.5°	1124.1	1123.7	1123.5	1123.2	1122.8	1122.6	1122.1	1121.5	1120.9	1120.3	1119.5
155°	1163.4	1162.4	1162.3	1162.0	1161.8	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5
157.5°	1197.7	1196.7	1196.5	1196.3	1196.1	1195.9	1196.0	1196.2	1196.5	1196.8	1197.0
160°	1218.5	1217.4	1217.4	1217.4	1217.4	1217.4	1217.6	1218.1	1218.5	1219.0	1219.4
162.5°	1238.4	1237.2	1237.1	1236.9	1236.7	1236.5	1236.8	1237.4	1238.1	1238.7	1239.3
165°	1263.3	1261.9	1261.9	1261.9	1261.9	1261.9	1262.3	1262.9	1263.6	1264.4	1265.1
167.5°	1283.6	1282.2	1282.0	1281.8	1281.7	1281.5	1281.8	1282.8	1283.7	1284.6	1285.6
170°	1294.6	1293.0	1293.0	1293.0	1293.0	1293.0	1293.4	1294.4	1295.3	1296.2	1297.2
172.5°	1303.6	1302.2	1302.2	1302.2	1302.2	1302.2	1302.6	1303.5	1304.4	1305.4	1306.3
175°	1313.0	1311.6	1311.6	1311.6	1311.6	1311.6	1312.2	1313.0	1313.9	1314.9	1315.8
177.5°	1317.5	1316.4	1316.4	1316.4	1316.4	1316.4	1316.8	1317.5	1318.3	1319.0	1319.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	709.3	710.6	715.2	718.5	722.4	724.6	726.7	728.4	730.6	731.1	739.0
5°	712.4	719.3	731.2	740.0	751.0	762.9	771.2	774.9	784.8	793.0	809.4
7.5°	711.5	726.0	744.1	762.9	782.9	801.5	817.6	836.7	850.3	870.8	890.9
10°	710.7	730.1	753.4	777.3	805.3	831.3	854.5	880.5	902.0	930.3	954.6
12.5°	708.3	731.8	764.0	792.3	826.3	862.1	896.5	929.9	949.0	996.1	1018.5
15°	702.1	730.1	770.4	813.5	860.3	902.7	946.4	981.1	1037.5	1078.9	1105.2
17.5°	690.5	729.8	777.6	829.5	886.4	942.2	991.7	1044.6	1104.4	1154.3	1207.6
20°	685.1	728.1	781.4	838.7	897.9	961.0	1017.4	1080.9	1146.1	1195.3	1263.6
22.5°	675.0	723.7	781.1	845.1	908.2	973.6	1039.6	1103.6	1178.9	1246.7	1311.7
25°	658.4	713.1	772.5	843.9	918.0	983.6	1062.5	1147.5	1226.1	1313.1	1378.0
27.5°	641.1	699.5	759.0	825.4	905.1	982.9	1082.2	1178.2	1274.3	1349.5	1397.5
30°	627.7	684.4	745.9	812.8	891.7	984.3	1095.3	1200.1	1293.7	1358.3	1385.2
32.5°	613.2	670.7	725.1	795.3	879.4	983.5	1103.5	1212.9	1294.8	1337.7	1332.5
35°	590.5	638.6	691.6	759.2	858.3	977.4	1108.2	1214.1	1264.3	1255.1	1185.4
37.5°	557.7	598.2	650.3	724.3	833.7	964.8	1098.7	1178.1	1174.8	1099.7	998.8
40°	537.3	571.7	621.9	699.8	814.5	956.6	1083.6	1135.2	1091.5	986.7	865.8
42.5°	510.4	542.2	592.4	672.4	793.5	940.0	1055.0	1069.9	984.4	863.7	753.0
45°	469.0	497.0	548.8	631.5	762.0	903.7	985.0	948.4	833.3	708.6	624.3
47.5°	424.3	453.4	503.4	588.3	716.3	849.1	887.8	810.1	691.9	590.8	513.4
50°	396.2	424.2	473.0	558.7	685.5	804.3	820.4	720.0	611.4	522.5	459.0
52.5°	367.7	394.1	442.1	528.2	649.3	752.3	742.4	640.2	540.3	464.6	414.7
55°	325.5	350.4	396.2	476.8	587.1	668.7	632.8	535.2	452.5	393.8	355.9
57.5°	287.7	311.6	351.0	423.8	519.7	575.8	530.2	447.9	382.2	337.0	308.7
60°	262.0	283.1	320.7	388.3	471.6	514.3	469.2	396.5	341.2	305.0	279.7
62.5°	237.6	256.1	290.9	352.2	424.6	460.5	414.9	353.3	306.2	274.1	252.6
65°	200.8	217.6	248.3	296.1	355.5	379.4	340.2	290.3	253.8	229.9	215.5
67.5°	167.2	181.4	207.9	245.6	289.4	306.7	276.9	238.3	210.7	191.5	180.1
70°	144.8	157.1	177.9	210.4	250.0	263.3	235.3	203.6	183.4	168.0	157.5
72.5°	125.9	135.0	153.9	179.0	212.0	222.6	203.0	175.1	156.3	144.8	136.4
75°	95.9	103.4	115.7	135.9	158.8	165.0	150.3	132.9	120.2	112.0	105.5
77.5°	69.2	74.7	83.6	96.0	111.9	117.4	108.2	96.5	87.3	81.8	78.1
80°	52.3	56.7	64.2	74.5	84.0	87.1	81.6	72.8	66.3	63.2	60.1
82.5°	38.6	41.1	45.7	52.6	59.1	62.8	58.1	52.8	49.3	46.5	45.4
85°	19.4	20.9	22.9	25.6	29.7	31.1	29.3	28.0	25.9	24.3	24.3
87.5°	7.8	8.2	9.5	10.5	12.1	13.6	13.9	13.9	14.3	14.2	14.1
90°	3.3	5.6	7.9	10.3	12.9	15.9	18.9	21.8	24.9	25.8	26.8
92.5°	26.7	28.2	29.8	31.3	33.0	34.7	36.4	38.1	39.8	40.5	41.3
95°	62.8	64.4	66.0	67.6	69.3	71.2	72.9	74.8	76.7	77.6	78.5
97.5°	109.8	111.0	112.2	113.3	114.7	116.0	117.3	118.6	119.9	121.0	122.1
100°	142.3	143.7	145.1	146.4	147.7	148.8	150.0	151.1	152.3	153.0	153.6
102.5°	179.1	179.9	180.7	181.6	182.7	184.2	185.7	187.3	188.8	189.5	190.1
105°	233.5	234.1	234.5	235.0	236.2	238.3	240.4	242.5	244.5	244.5	244.5
107.5°	297.2	297.5	297.7	298.0	298.6	299.4	300.2	301.0	301.9	302.6	303.4
110°	337.2	337.6	338.1	338.6	339.0	339.5	339.9	340.4	340.9	341.8	342.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	378.4	378.7	379.0	379.2	379.4	379.5	379.6	379.7	379.8	380.9	382.0
115°	441.0	441.7	442.4	443.1	443.2	442.7	442.3	441.8	441.4	441.6	441.8
117.5°	503.4	503.8	504.3	504.7	504.7	504.1	503.5	502.9	502.3	502.2	502.2
120°	543.2	544.7	546.0	547.4	547.5	546.4	545.2	544.0	542.9	542.7	542.4
122.5°	583.4	584.5	585.5	586.6	586.7	586.1	585.5	585.0	584.3	583.7	583.2
125°	645.2	645.8	646.5	647.2	647.3	646.8	646.4	646.0	645.5	644.5	643.6
127.5°	703.1	704.5	706.1	707.5	708.0	707.5	706.9	706.5	706.0	704.7	703.4
130°	741.5	743.4	745.3	747.1	747.7	747.0	746.3	745.6	744.9	744.0	743.1
132.5°	779.7	781.6	783.4	785.2	786.0	785.4	784.9	784.3	783.9	782.7	781.7
135°	837.5	838.8	840.3	841.6	842.2	842.0	841.8	841.5	841.2	840.3	839.5
137.5°	891.1	892.2	893.4	894.6	895.5	896.1	896.6	897.2	897.9	896.9	895.9
140°	928.4	929.6	930.8	931.8	932.6	932.8	933.0	933.3	933.5	933.3	933.0
142.5°	962.4	963.6	964.7	965.9	966.6	967.1	967.5	967.9	968.3	968.0	967.9
145°	1014.8	1015.2	1015.7	1016.1	1016.7	1017.4	1018.1	1018.8	1019.5	1019.2	1019.0
147.5°	1061.6	1062.4	1063.2	1064.1	1064.8	1065.4	1066.0	1066.7	1067.4	1067.4	1067.4
150°	1093.5	1094.0	1094.4	1094.9	1095.4	1095.8	1096.3	1096.7	1097.2	1097.2	1097.2
152.5°	1120.3	1120.9	1121.5	1122.1	1122.6	1122.8	1123.2	1123.5	1123.7	1124.1	1124.4
155°	1161.5	1161.5	1161.5	1161.5	1161.5	1161.8	1162.0	1162.3	1162.4	1163.4	1164.3
157.5°	1196.8	1196.5	1196.2	1196.0	1195.9	1196.1	1196.3	1196.5	1196.7	1197.7	1198.5
160°	1219.0	1218.5	1218.1	1217.6	1217.4	1217.4	1217.4	1217.4	1217.4	1218.5	1219.7
162.5°	1238.7	1238.1	1237.4	1236.8	1236.5	1236.7	1236.9	1237.1	1237.2	1238.4	1239.6
165°	1264.4	1263.6	1262.9	1262.3	1261.9	1261.9	1261.9	1261.9	1261.9	1263.3	1264.7
167.5°	1284.6	1283.7	1282.8	1281.8	1281.5	1281.7	1281.8	1282.0	1282.2	1283.6	1285.0
170°	1296.2	1295.3	1294.4	1293.4	1293.0	1293.0	1293.0	1293.0	1293.0	1294.6	1296.2
172.5°	1305.4	1304.4	1303.5	1302.6	1302.2	1302.2	1302.2	1302.2	1302.2	1303.6	1305.0
175°	1314.9	1313.9	1313.0	1312.2	1311.6	1311.6	1311.6	1311.6	1311.6	1313.0	1314.4
177.5°	1319.0	1318.3	1317.5	1316.8	1316.4	1316.4	1316.4	1316.4	1316.4	1317.5	1318.7
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	741.8	742.1	745.0	747.3	746.2	747.5	748.1
5°	810.4	822.7	829.2	834.0	834.4	834.6	837.4
7.5°	907.8	921.0	930.6	945.2	949.6	954.6	953.1
10°	978.8	998.3	1015.0	1023.9	1033.4	1047.4	1036.2
12.5°	1045.2	1079.7	1105.2	1118.9	1128.0	1130.8	1125.2
15°	1154.7	1199.8	1224.1	1223.3	1254.1	1267.4	1246.5
17.5°	1255.1	1296.7	1330.0	1347.1	1372.7	1378.4	1375.8
20°	1316.5	1362.0	1387.9	1417.3	1430.7	1442.6	1444.7
22.5°	1369.6	1410.3	1438.2	1462.7	1473.8	1479.4	1482.9
25°	1424.2	1456.3	1473.0	1481.5	1484.6	1483.9	1479.4
27.5°	1420.4	1422.8	1404.4	1386.3	1370.1	1351.8	1345.6
30°	1383.5	1354.8	1303.6	1274.5	1231.9	1198.0	1211.7
32.5°	1286.5	1229.4	1171.9	1108.4	1055.9	1041.0	1025.9
35°	1098.0	997.6	938.9	870.6	843.2	815.9	797.1
37.5°	888.3	810.7	740.9	696.2	668.9	651.7	642.3
40°	768.1	698.0	640.7	604.5	583.6	564.2	561.4
42.5°	672.2	607.1	563.9	535.1	515.1	506.8	500.8
45°	550.5	505.1	476.1	455.6	442.3	437.1	430.3
47.5°	466.0	433.9	412.1	398.1	388.1	384.2	383.7
50°	418.7	392.1	376.0	365.1	357.2	355.9	350.4
52.5°	383.2	360.1	347.6	338.0	332.3	328.5	326.9
55°	332.6	317.3	306.0	300.5	296.1	292.3	292.3
57.5°	291.1	278.2	270.7	266.1	264.7	262.1	260.4
60°	265.4	254.4	248.6	244.5	241.8	242.1	239.1
62.5°	240.2	233.1	227.6	223.5	220.3	220.3	220.5
65°	204.6	199.1	195.0	193.7	191.6	189.2	189.8
67.5°	173.3	168.3	165.1	162.7	162.0	160.7	162.7
70°	151.0	147.2	144.8	142.8	142.0	142.4	144.1
72.5°	130.5	127.8	126.3	125.3	123.8	123.9	125.0
75°	102.5	100.4	99.1	98.0	97.6	97.6	97.6
77.5°	75.3	74.8	74.2	72.7	72.8	73.1	73.2
80°	59.4	58.4	58.1	57.3	56.4	55.6	57.3
82.5°	44.4	43.3	43.1	42.9	41.3	41.2	42.6
85°	23.9	22.9	23.2	22.9	22.9	22.6	22.6
87.5°	14.0	13.9	13.7	14.2	14.0	13.7	14.4
90°	27.6	28.5	29.2	29.7	30.1	30.6	31.1
92.5°	42.0	42.7	43.0	42.7	42.4	42.1	41.8
95°	79.5	80.3	80.8	80.8	80.8	80.8	80.8
97.5°	123.1	124.2	124.7	124.6	124.5	124.4	124.3
100°	154.4	155.1	155.6	156.1	156.6	157.0	157.5
102.5°	190.8	191.5	191.8	191.7	191.6	191.5	191.5
105°	244.5	244.5	244.8	245.2	245.7	246.1	246.6
107.5°	304.2	304.9	305.1	304.8	304.5	304.3	304.0
110°	343.7	344.6	344.7	344.3	343.8	343.4	343.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	383.2	384.2	384.8	384.7	384.6	384.5	384.4
115°	442.0	442.3	442.3	442.0	441.8	441.6	441.4
117.5°	502.1	502.1	501.8	501.1	500.4	499.8	499.2
120°	542.2	542.0	541.6	541.2	540.7	540.3	539.8
122.5°	582.6	581.9	581.3	580.7	580.1	579.3	578.7
125°	642.7	641.8	640.9	640.0	639.0	638.1	637.2
127.5°	702.1	700.8	699.6	698.6	697.5	696.4	695.4
130°	742.2	741.3	739.9	738.3	736.7	735.1	733.5
132.5°	780.6	779.4	778.3	777.0	775.8	774.5	773.3
135°	838.5	837.6	836.9	836.4	836.0	835.5	835.1
137.5°	894.9	893.9	893.0	892.2	891.4	890.5	889.6
140°	932.8	932.6	931.7	930.1	928.4	926.8	925.2
142.5°	967.6	967.4	966.6	965.4	964.1	963.0	961.7
145°	1018.8	1018.6	1018.0	1017.1	1016.1	1015.2	1014.3
147.5°	1067.4	1067.4	1066.7	1065.2	1063.9	1062.5	1061.1
150°	1097.2	1097.2	1096.5	1095.1	1093.8	1092.3	1091.0
152.5°	1124.8	1125.2	1124.8	1123.6	1122.4	1121.1	1120.0
155°	1165.2	1166.2	1165.8	1164.2	1162.6	1161.0	1159.3
157.5°	1199.5	1200.5	1200.3	1199.1	1197.7	1196.5	1195.2
160°	1220.8	1222.0	1222.1	1221.2	1220.2	1219.3	1218.4
162.5°	1240.7	1241.9	1241.7	1240.2	1238.8	1237.2	1235.8
165°	1266.1	1267.5	1267.3	1265.7	1264.1	1262.5	1260.9
167.5°	1286.5	1287.9	1287.9	1286.5	1285.0	1283.6	1282.2
170°	1297.9	1299.5	1299.5	1297.9	1296.2	1294.6	1293.0
172.5°	1306.4	1307.9	1307.8	1306.1	1304.5	1302.9	1301.3
175°	1315.8	1317.1	1317.1	1315.5	1313.8	1312.2	1310.6
177.5°	1319.7	1320.8	1320.7	1319.5	1318.1	1316.9	1315.6
180°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9

(END OF REPORT)