

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: P331946-930

Luminaire Tested: **S123DIP-S560D1195U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331946-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D1195U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5836.8 lumens
Efficiency: N/A
Efficacy: 118.2 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

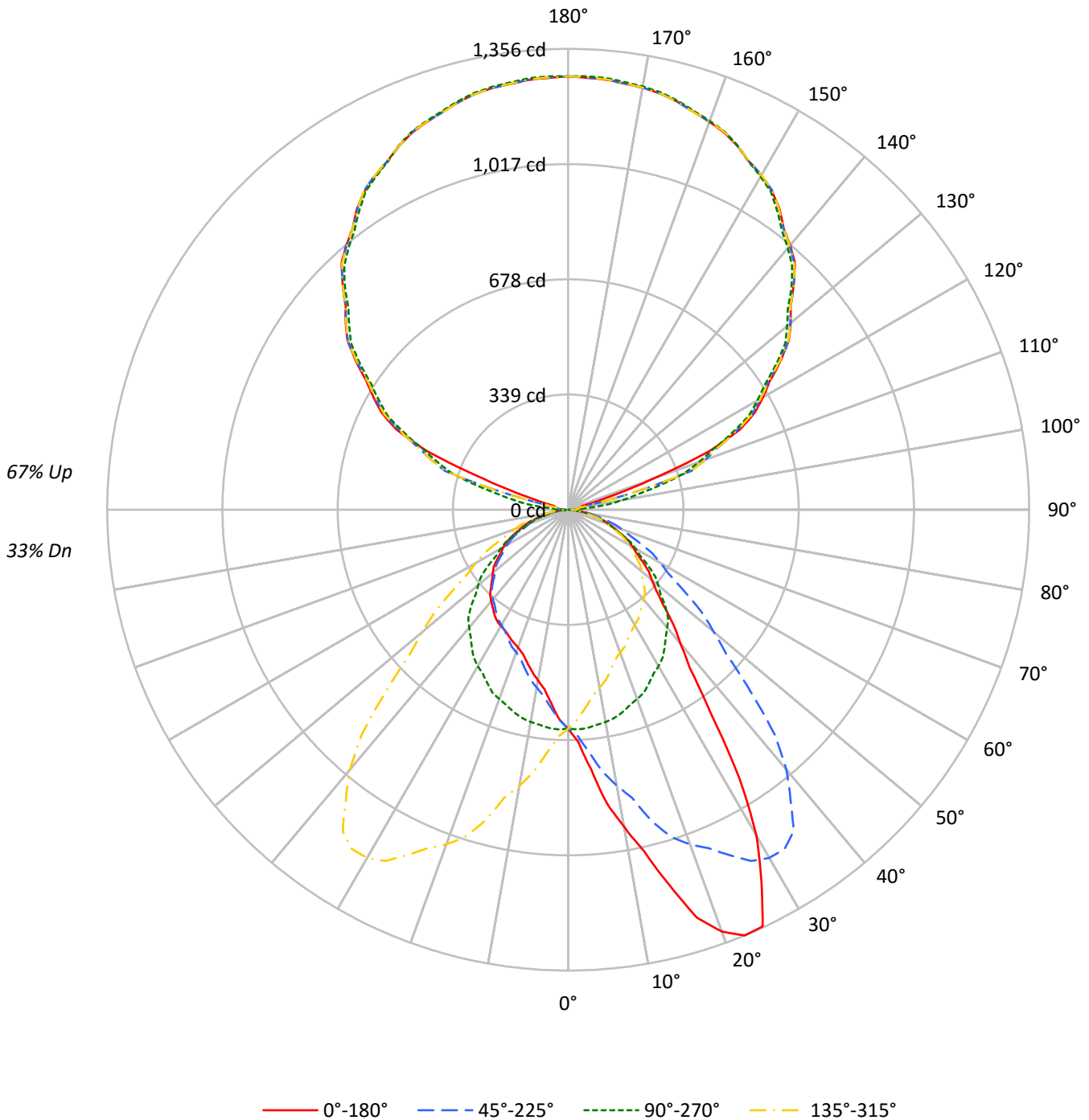
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	36	36	35	28
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	31	30	24
3	78	69	62	57	70	63	57	52	51	46	43	39	36	34	29	27	25	21
4	72	61	54	48	64	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	16
6	61	49	41	36	54	45	38	33	36	31	27	28	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10
10	45	33	26	22	41	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6937	6937	6937	6937
5°	8272	6967	6174	6967
10°	10355	6932	5576	6932
15°	12700	6876	5192	6876
20°	15131	6788	4943	6788
25°	16066	6683	4888	6683
30°	13770	6606	4913	6606
35°	9577	6495	4964	6495
40°	7213	6367	4949	6367
45°	5990	6174	4886	6174
50°	5365	5784	4843	5784
55°	5016	5362	4782	5362
60°	4706	4921	4732	4921
65°	4422	4485	4582	4485
70°	4148	3991	4362	3991
75°	3714	3493	4001	3493
80°	3248	2864	3446	2864
85°	2544	2087	2322	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	1.1
10°-20°	203.6	3.5
20°-30°	341.7	5.9
30°-40°	386.9	6.6
40°-50°	346.9	5.9
50°-60°	280.0	4.8
60°-70°	195.1	3.3
70°-80°	102.5	1.8
80°-90°	28.6	0.5
90°-100°	46.4	0.8
100°-110°	220.9	3.8
110°-120°	530.6	9.1
120°-130°	675.7	11.6
130°-140°	722.0	12.4
140°-150°	675.1	11.6
150°-160°	544.6	9.3
160°-170°	351.5	6.0
170°-180°	121.1	2.1
0°-30°	608.7	10.4
0°-40°	995.6	17.1
0°-60°	1622.5	27.8
0°-90°	1948.8	33.4
90°-120°	797.9	13.7
90°-150°	2870.8	49.2
90°-180°	3888.0	66.6
0°-180°	5836.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	644	644	644	644	644	
5°	766	645	571	645	766	79
15°	1140	617	466	617	1140	329
25°	1353	563	412	563	1353	593
35°	729	494	378	494	729	473
45°	394	406	321	406	394	311
55°	267	286	255	286	267	240
65°	174	176	180	176	174	173
75°	89	84	96	84	89	96
85°	21	17	19	17	21	25
90°	28	1	28	1	28	14
95°	36	58	36	58	36	30
105°	42	282	42	282	42	95
115°	557	530	557	530	557	515
125°	762	746	762	746	762	680
135°	939	929	939	929	939	724
145°	1083	1072	1083	1072	1083	676
155°	1179	1181	1179	1181	1179	544
165°	1243	1246	1243	1246	1243	351
175°	1270	1275	1270	1275	1270	121
180°	1275	1275	1275	1275	1275	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	684.0	683.5	682.2	683.2	681.2	678.5	678.2	675.7	668.5	668.0	666.0
5°	765.6	763.1	762.9	762.5	758.1	752.2	740.9	740.0	725.0	717.5	708.5
7.5°	871.5	872.8	868.2	864.2	850.8	842.0	830.0	814.6	796.1	777.5	765.0
10°	947.4	957.7	944.9	936.1	928.1	912.7	895.0	872.8	850.6	824.7	805.0
12.5°	1028.8	1033.9	1031.4	1023.0	1010.5	987.2	955.6	931.2	910.8	867.6	850.2
15°	1139.7	1158.8	1146.6	1118.5	1119.2	1097.0	1055.7	1010.5	986.4	948.6	897.1
17.5°	1257.9	1260.3	1255.1	1231.7	1216.0	1185.6	1147.5	1104.2	1055.4	1009.7	955.0
20°	1320.9	1319.0	1308.1	1295.8	1269.0	1245.3	1203.7	1155.4	1092.9	1047.9	988.3
22.5°	1355.8	1352.7	1347.5	1337.3	1315.0	1289.5	1252.2	1199.3	1139.9	1077.9	1009.0
25°	1352.7	1356.7	1357.4	1354.5	1346.8	1331.5	1302.1	1260.0	1200.6	1121.0	1049.2
27.5°	1230.3	1236.0	1252.7	1267.5	1284.1	1300.9	1298.7	1277.7	1233.9	1165.1	1077.3
30°	1107.9	1095.4	1126.3	1165.3	1191.9	1238.7	1264.9	1266.5	1241.9	1182.8	1097.2
32.5°	938.0	951.8	965.4	1013.4	1071.5	1124.1	1176.2	1218.3	1223.1	1183.8	1109.0
35°	728.8	746.0	770.9	796.0	858.4	912.1	1003.9	1083.9	1147.5	1155.9	1110.0
37.5°	587.3	595.8	611.6	636.6	677.4	741.2	812.2	913.2	1005.5	1074.2	1077.2
40°	513.3	515.8	533.6	552.7	585.8	638.2	702.3	791.6	902.1	998.0	1038.0
42.5°	457.9	463.4	470.9	489.3	515.6	555.1	614.6	688.4	789.7	900.0	978.2
45°	393.5	399.7	404.4	416.5	435.3	461.8	503.4	570.8	647.9	761.9	867.2
47.5°	350.8	351.3	354.8	364.0	376.7	396.7	426.1	469.4	540.2	632.6	740.7
50°	320.4	325.4	326.6	333.8	343.8	358.5	382.9	419.6	477.8	559.0	658.3
52.5°	298.9	300.4	303.9	309.1	317.8	329.2	350.3	379.2	424.8	494.0	585.3
55°	267.3	267.3	270.8	274.8	279.8	290.1	304.1	325.4	360.0	413.8	489.3
57.5°	238.1	239.6	242.1	243.3	247.5	254.4	266.1	282.3	308.1	349.4	409.5
60°	218.6	221.4	221.1	223.6	227.3	232.6	242.6	255.8	278.8	311.9	362.6
62.5°	201.6	201.4	201.4	204.3	208.1	213.1	219.6	231.0	250.6	280.0	323.0
65°	173.6	173.0	175.2	177.1	178.3	182.1	187.0	197.1	210.2	232.0	265.4
67.5°	148.8	146.9	148.1	148.8	150.9	153.8	158.5	164.7	175.1	192.7	217.8
70°	131.8	130.2	129.9	130.5	132.4	134.6	138.0	144.0	153.6	167.7	186.1
72.5°	114.3	113.2	113.2	114.5	115.4	116.8	119.3	124.7	132.4	142.9	160.1
75°	89.3	89.3	89.3	89.6	90.6	91.8	93.7	96.4	102.4	109.9	121.5
77.5°	66.9	66.9	66.5	66.4	67.8	68.4	68.8	71.4	74.8	79.8	88.2
80°	52.4	50.9	51.5	52.4	53.1	53.4	54.3	55.0	57.8	60.6	66.5
82.5°	39.0	37.7	37.7	39.2	39.4	39.6	40.6	41.5	42.6	45.1	48.3
85°	20.6	20.6	21.0	21.0	21.2	21.0	21.9	22.2	22.2	23.7	25.6
87.5°	13.2	12.6	12.7	13.0	12.6	12.7	12.8	12.9	13.0	13.0	12.7
90°	28.5	28.0	27.6	27.1	26.7	26.1	25.3	24.4	23.6	22.7	20.0
92.5°	31.5	31.2	31.0	30.7	30.4	29.7	28.3	26.9	25.6	24.2	22.2
95°	36.0	36.0	36.0	36.0	36.0	35.2	33.8	32.3	30.8	29.4	27.1
97.5°	39.1	38.8	38.6	38.4	38.2	37.3	35.5	33.8	32.2	30.5	45.7
100°	39.8	39.5	39.4	39.1	39.0	38.0	36.3	34.7	32.9	31.2	64.1
102.5°	40.5	40.2	39.8	39.4	39.1	41.4	46.6	51.9	57.1	62.3	98.2
105°	41.7	41.3	40.8	40.4	40.0	58.4	95.6	132.9	170.2	207.4	226.4
107.5°	130.9	159.0	187.0	215.2	243.2	270.9	298.2	325.5	352.9	380.3	377.2
110°	260.5	290.6	320.7	350.8	380.9	399.4	406.3	413.3	420.3	427.2	424.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.9	453.2	459.6	465.9	472.3	475.5	475.3	475.2	475.1	474.9	472.6
115°	556.9	556.1	555.3	554.4	553.6	552.1	550.0	547.9	545.8	543.7	541.8
117.5°	618.7	618.6	618.4	618.2	618.1	617.1	615.5	613.8	612.0	610.4	609.4
120°	661.1	661.1	661.1	661.1	661.1	660.3	658.6	657.0	655.3	653.5	653.0
122.5°	702.9	702.7	702.5	702.3	702.1	701.5	700.3	699.1	698.0	696.8	695.9
125°	761.6	761.2	760.8	760.3	759.9	759.5	759.0	758.6	758.2	757.7	756.9
127.5°	818.0	818.5	818.9	819.3	819.7	819.5	818.9	818.2	817.6	816.8	815.9
130°	854.4	854.8	855.2	855.7	856.1	855.9	855.0	854.2	853.4	852.5	851.7
132.5°	887.7	888.4	888.9	889.5	890.1	890.0	889.2	888.3	887.5	886.6	885.9
135°	938.7	939.3	940.0	940.6	941.3	941.3	940.6	940.0	939.3	938.7	937.8
137.5°	986.6	987.1	987.5	987.9	988.3	988.0	987.0	986.0	985.0	984.0	983.5
140°	1015.5	1015.9	1016.3	1016.7	1017.1	1016.9	1016.0	1015.2	1014.4	1013.5	1012.9
142.5°	1042.0	1042.5	1043.1	1043.7	1044.3	1044.2	1043.6	1042.9	1042.3	1041.5	1041.0
145°	1082.6	1082.6	1082.6	1082.6	1082.6	1082.5	1082.1	1081.7	1081.2	1080.8	1080.4
147.5°	1113.0	1113.9	1114.9	1115.9	1116.9	1117.1	1116.7	1116.3	1115.9	1115.4	1115.0
150°	1135.7	1136.4	1137.0	1137.6	1138.2	1138.3	1137.9	1137.5	1137.1	1136.7	1136.3
152.5°	1153.9	1154.9	1155.8	1156.8	1157.8	1157.9	1157.2	1156.3	1155.6	1154.9	1154.6
155°	1179.3	1180.6	1181.9	1183.1	1184.3	1184.5	1183.4	1182.3	1181.3	1180.2	1180.1
157.5°	1200.7	1202.3	1204.0	1205.7	1207.3	1207.5	1206.2	1204.9	1203.7	1202.4	1202.6
160°	1214.3	1215.8	1217.3	1218.8	1220.3	1220.3	1219.0	1217.8	1216.6	1215.3	1215.5
162.5°	1227.2	1228.5	1229.8	1231.1	1232.4	1232.4	1230.9	1229.6	1228.1	1226.6	1226.9
165°	1242.8	1244.2	1245.7	1247.2	1248.6	1248.5	1246.8	1245.2	1243.5	1241.8	1242.0
167.5°	1253.9	1255.6	1257.3	1259.0	1260.7	1260.7	1259.0	1257.3	1255.6	1253.9	1253.9
170°	1260.8	1262.4	1264.1	1265.8	1267.5	1267.5	1265.8	1264.1	1262.4	1260.8	1260.8
172.5°	1264.5	1266.4	1268.3	1270.1	1271.9	1272.0	1270.3	1268.7	1267.0	1265.3	1265.1
175°	1270.2	1271.9	1273.6	1275.3	1276.9	1277.1	1275.6	1274.1	1272.7	1271.1	1271.0
177.5°	1271.9	1273.6	1275.3	1277.0	1278.6	1278.8	1277.5	1276.1	1274.8	1273.4	1273.3
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	664.5	662.5	660.5	657.0	654.0	649.7	648.5	647.0	642.5	638.5	635.5
5°	705.1	697.6	686.6	676.6	668.5	657.6	651.3	644.8	635.4	627.0	620.1
7.5°	747.5	732.8	715.8	697.5	680.4	663.8	650.5	638.7	625.6	613.1	603.5
10°	781.3	760.0	736.3	710.7	688.8	667.6	649.8	634.2	617.3	602.7	590.4
12.5°	819.7	788.2	755.5	724.4	698.5	669.1	647.6	627.7	608.6	590.9	577.2
15°	865.3	825.3	786.6	743.8	704.4	667.6	642.0	617.0	594.8	576.7	559.2
17.5°	906.7	861.4	810.4	758.4	710.9	667.2	631.4	603.2	575.4	553.3	535.8
20°	930.2	878.6	820.9	766.9	714.4	665.7	626.4	592.6	562.7	539.2	519.6
22.5°	950.5	890.1	830.4	772.7	714.2	661.7	617.2	582.4	549.9	527.0	506.1
25°	971.4	899.3	839.4	771.6	706.3	652.0	602.0	562.7	530.2	503.4	481.8
27.5°	989.4	898.7	827.5	754.6	694.0	639.5	586.2	544.0	509.5	480.3	458.4
30°	1001.4	899.9	815.3	743.1	682.0	625.7	573.9	531.5	495.2	465.5	445.0
32.5°	1008.9	899.2	804.0	727.2	663.0	613.3	560.7	516.7	479.5	450.4	430.5
35°	1013.3	893.6	784.7	694.1	632.3	583.9	539.9	494.3	455.3	428.1	405.6
37.5°	1004.5	882.2	762.2	662.3	594.6	547.0	509.9	471.1	433.7	403.8	384.4
40°	990.8	874.7	744.7	639.8	568.6	522.7	491.2	453.1	416.2	387.8	369.7
42.5°	964.6	859.4	725.5	614.8	541.6	495.7	466.7	434.9	400.0	373.3	355.2
45°	900.6	826.2	696.7	577.4	501.8	454.4	428.8	405.6	374.1	348.1	332.6
47.5°	811.7	776.3	654.9	537.9	460.2	414.6	387.9	369.3	346.3	325.4	310.4
50°	750.1	735.4	626.7	510.9	432.4	387.8	362.2	345.4	328.8	307.9	294.2
52.5°	678.8	687.9	593.7	482.9	404.2	360.4	336.2	322.9	307.9	290.7	278.7
55°	578.6	611.4	536.8	435.9	362.2	320.4	297.6	285.7	277.0	264.2	253.9
57.5°	484.8	526.4	475.2	387.5	320.9	284.9	263.0	250.1	244.4	237.7	229.7
60°	429.0	470.3	431.2	355.1	293.2	258.9	239.5	228.6	223.0	218.3	211.4
62.5°	379.4	421.0	388.2	322.0	266.0	234.2	217.3	206.6	202.2	199.7	193.9
65°	311.0	346.9	325.1	270.8	227.0	198.9	183.6	176.1	172.0	171.1	167.4
67.5°	253.2	280.5	264.6	224.5	190.1	165.8	152.9	146.5	143.4	143.1	140.2
70°	215.2	240.8	228.6	192.3	162.7	143.7	132.4	126.8	124.9	124.6	123.0
72.5°	185.6	203.5	193.9	163.6	140.7	123.4	115.1	109.3	107.1	107.6	106.6
75°	137.4	150.8	145.2	124.3	105.8	94.6	87.7	84.0	82.1	83.1	81.8
77.5°	98.9	107.4	102.3	87.8	76.5	68.3	63.3	61.0	59.3	59.2	58.6
80°	74.6	79.7	76.8	68.1	58.7	51.9	47.8	46.2	45.2	45.0	44.7
82.5°	53.2	57.4	54.1	48.1	41.7	37.6	35.3	33.3	32.5	32.7	32.4
85°	26.8	28.5	27.1	23.4	21.0	19.1	17.8	16.9	16.2	16.6	15.9
87.5°	12.7	12.4	11.1	9.6	8.7	7.5	7.1	6.2	6.1	6.5	6.7
90°	17.3	14.5	11.8	9.4	7.3	5.1	3.0	1.0	3.0	5.1	7.3
92.5°	20.1	18.1	16.0	15.2	15.8	16.5	17.0	17.6	17.0	16.5	15.8
95°	24.7	22.4	20.1	23.2	31.9	40.5	49.2	57.8	49.2	40.5	31.9
97.5°	60.8	76.0	91.2	100.6	104.5	108.4	112.3	116.1	112.3	108.4	104.5
100°	96.9	129.8	162.6	176.9	172.7	168.5	164.3	160.0	164.3	168.5	172.7
102.5°	134.0	169.9	205.8	222.3	219.2	216.1	213.1	210.1	213.1	216.1	219.2
105°	245.3	264.2	283.2	291.6	289.2	286.9	284.6	282.3	284.6	286.9	289.2
107.5°	374.2	371.3	368.3	365.8	363.9	362.2	360.3	358.4	360.3	362.2	363.9
110°	422.6	420.3	417.9	416.0	414.3	412.5	410.9	409.2	410.9	412.5	414.3



TEST NUMBER: P331946-930

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	470.3	468.0	465.7	463.7	462.3	460.7	459.2	457.7	459.2	460.7	462.3
115°	539.9	538.0	536.1	534.5	533.3	532.0	530.8	529.5	530.8	532.0	533.3
117.5°	608.5	607.5	606.5	605.3	603.7	602.1	600.5	599.0	600.5	602.1	603.7
120°	652.3	651.7	651.1	649.8	647.9	646.0	644.1	642.2	644.1	646.0	647.9
122.5°	695.2	694.4	693.6	692.4	690.8	689.3	687.7	686.2	687.7	689.3	690.8
125°	756.1	755.2	754.4	753.2	751.5	749.7	748.1	746.4	748.1	749.7	751.5
127.5°	814.9	813.8	812.9	811.5	809.8	808.1	806.4	804.8	806.4	808.1	809.8
130°	850.8	849.9	849.1	847.8	846.2	844.5	842.9	841.1	842.9	844.5	846.2
132.5°	885.3	884.6	883.9	882.7	881.0	879.4	877.7	876.0	877.7	879.4	881.0
135°	937.0	936.2	935.3	934.3	933.0	931.7	930.5	929.2	930.5	931.7	933.0
137.5°	983.1	982.6	982.1	981.1	979.5	977.9	976.3	974.7	976.3	977.9	979.5
140°	1012.3	1011.6	1011.0	1010.1	1008.8	1007.5	1006.2	1005.0	1006.2	1007.5	1008.8
142.5°	1040.3	1039.7	1039.0	1038.1	1036.8	1035.6	1034.3	1033.1	1034.3	1035.6	1036.8
145°	1079.9	1079.5	1079.1	1078.2	1076.7	1075.2	1073.7	1072.3	1073.7	1075.2	1076.7
147.5°	1114.6	1114.2	1113.8	1113.0	1112.1	1111.2	1110.2	1109.2	1110.2	1111.2	1112.1
150°	1135.8	1135.4	1135.0	1134.5	1133.8	1133.2	1132.5	1132.0	1132.5	1133.2	1133.8
152.5°	1154.4	1154.1	1153.8	1153.6	1153.2	1153.0	1152.7	1152.4	1152.7	1153.0	1153.2
155°	1179.8	1179.6	1179.4	1179.5	1179.9	1180.3	1180.8	1181.2	1180.8	1180.3	1179.9
157.5°	1202.8	1203.1	1203.2	1203.4	1203.4	1203.5	1203.5	1203.5	1203.5	1203.5	1203.4
160°	1215.7	1215.9	1216.1	1216.3	1216.6	1216.8	1217.0	1217.2	1217.0	1216.8	1216.6
162.5°	1227.1	1227.3	1227.5	1227.8	1228.4	1229.0	1229.6	1230.0	1229.6	1229.0	1228.4
165°	1242.2	1242.4	1242.7	1243.1	1243.7	1244.3	1245.0	1245.6	1245.0	1244.3	1243.7
167.5°	1253.9	1253.9	1253.9	1254.3	1255.2	1256.1	1256.9	1257.8	1256.9	1256.1	1255.2
170°	1260.8	1260.8	1260.8	1261.2	1262.0	1262.9	1263.7	1264.5	1263.7	1262.9	1262.0
172.5°	1264.9	1264.8	1264.6	1265.0	1266.1	1267.1	1268.1	1269.1	1268.1	1267.1	1266.1
175°	1270.7	1270.6	1270.3	1270.7	1271.8	1272.8	1273.9	1275.0	1273.9	1272.8	1271.8
177.5°	1273.1	1272.9	1272.8	1273.1	1274.0	1274.8	1275.6	1276.5	1275.6	1274.8	1274.0
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	633.7	632.0	629.5	625.7	622.7	618.0	618.0	618.7	618.7	618.5	618.0
5°	614.5	609.8	604.2	597.7	590.8	583.9	582.7	580.2	578.3	577.1	575.5
7.5°	594.2	586.0	577.7	568.6	560.2	553.3	548.5	544.5	541.8	539.2	537.1
10°	580.5	570.1	560.5	550.8	540.2	531.7	526.4	522.7	519.9	517.4	516.2
12.5°	564.3	552.4	541.8	532.6	521.0	512.3	507.2	505.5	502.1	496.9	494.2
15°	540.5	529.6	516.8	502.7	497.1	486.5	480.5	477.8	475.9	471.8	470.6
17.5°	520.2	505.9	491.5	481.0	470.6	462.0	458.7	455.2	452.7	449.4	448.4
20°	504.0	491.2	478.1	466.8	455.9	446.5	443.7	441.2	438.7	437.2	435.9
22.5°	487.5	474.7	463.8	453.3	441.6	435.5	432.4	429.7	428.0	426.9	425.7
25°	464.3	453.1	440.9	431.5	422.2	418.1	416.2	414.7	413.4	411.9	411.6
27.5°	443.6	431.4	421.5	412.7	406.0	402.6	400.8	400.1	400.3	400.9	401.2
30°	428.1	416.9	408.7	401.2	395.0	391.9	391.6	391.6	392.8	393.1	393.8
32.5°	413.8	404.6	396.5	389.2	384.5	382.4	383.6	383.6	384.6	385.4	386.5
35°	393.1	385.0	378.8	372.5	368.4	369.4	370.0	370.6	372.2	374.1	375.4
37.5°	373.3	366.3	359.8	354.9	353.0	354.7	356.2	357.5	359.4	360.8	362.0
40°	359.1	353.8	347.6	343.2	343.8	344.7	346.0	347.6	349.1	350.0	351.3
42.5°	345.8	340.3	335.6	331.9	332.8	334.0	334.8	335.6	337.4	339.1	339.8
45°	325.7	321.3	316.9	314.8	315.4	316.0	316.7	317.6	319.1	320.4	320.7
47.5°	303.0	299.9	297.0	294.9	295.9	295.6	296.4	298.5	299.0	299.7	301.4
50°	288.5	285.7	282.3	281.7	281.7	281.7	281.9	284.5	284.5	285.7	287.0
52.5°	272.6	270.8	268.6	267.4	266.9	266.9	268.2	269.5	269.9	271.7	273.0
55°	248.8	247.0	245.2	244.2	243.5	244.2	246.7	247.3	248.8	249.8	250.7
57.5°	224.2	222.7	221.3	220.8	220.6	221.4	222.8	224.7	225.1	228.0	229.3
60°	208.0	205.8	204.6	204.6	203.9	206.7	206.1	209.2	209.9	211.7	213.9
62.5°	191.2	188.3	187.8	187.8	188.7	189.5	190.4	191.8	193.4	195.8	197.4
65°	164.3	162.7	164.9	164.5	164.0	165.8	165.8	167.4	169.3	171.5	174.9
67.5°	138.7	137.9	138.1	138.1	139.0	140.1	141.0	142.4	144.6	146.9	149.1
70°	121.5	122.4	120.8	122.1	123.0	123.4	123.9	125.8	128.3	129.9	132.4
72.5°	104.8	104.7	104.8	105.3	106.3	106.9	107.5	109.6	112.3	113.7	115.7
75°	80.6	80.2	81.2	81.2	82.8	83.4	84.0	85.0	87.4	89.3	90.9
77.5°	58.9	59.2	59.0	60.1	59.7	59.8	61.7	62.6	62.9	66.6	67.4
80°	44.4	45.0	45.2	45.6	45.9	45.2	47.5	48.4	48.4	50.5	52.2
82.5°	31.9	32.2	33.0	33.3	33.4	34.0	34.2	34.9	35.6	36.6	38.6
85°	15.9	16.9	17.2	16.9	17.2	16.6	17.4	17.8	18.1	18.1	18.1
87.5°	6.8	7.6	7.9	8.7	9.0	9.8	9.9	9.6	9.8	10.7	9.9
90°	9.4	11.8	14.5	17.3	20.0	22.7	23.6	24.4	25.3	26.1	26.7
92.5°	15.2	16.0	18.1	20.1	22.2	24.2	25.6	26.9	28.3	29.7	30.4
95°	23.2	20.1	22.4	24.7	27.1	29.4	30.8	32.3	33.8	35.2	36.0
97.5°	100.6	91.2	76.0	60.8	45.7	30.5	32.2	33.8	35.5	37.3	38.2
100°	176.9	162.6	129.8	96.9	64.1	31.2	32.9	34.7	36.3	38.0	39.0
102.5°	222.3	205.8	169.9	134.0	98.2	62.3	57.1	51.9	46.6	41.4	39.1
105°	291.6	283.2	264.2	245.3	226.4	207.4	170.2	132.9	95.6	58.4	40.0
107.5°	365.8	368.3	371.3	374.2	377.2	380.3	352.9	325.5	298.2	270.9	243.2
110°	416.0	417.9	420.3	422.6	424.9	427.2	420.3	413.3	406.3	399.4	380.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	463.7	465.7	468.0	470.3	472.6	474.9	475.1	475.2	475.3	475.5	472.3
115°	534.5	536.1	538.0	539.9	541.8	543.7	545.8	547.9	550.0	552.1	553.6
117.5°	605.3	606.5	607.5	608.5	609.4	610.4	612.0	613.8	615.5	617.1	618.1
120°	649.8	651.1	651.7	652.3	653.0	653.5	655.3	657.0	658.6	660.3	661.1
122.5°	692.4	693.6	694.4	695.2	695.9	696.8	698.0	699.1	700.3	701.5	702.1
125°	753.2	754.4	755.2	756.1	756.9	757.7	758.2	758.6	759.0	759.5	759.9
127.5°	811.5	812.9	813.8	814.9	815.9	816.8	817.6	818.2	818.9	819.5	819.7
130°	847.8	849.1	849.9	850.8	851.7	852.5	853.4	854.2	855.0	855.9	856.1
132.5°	882.7	883.9	884.6	885.3	885.9	886.6	887.5	888.3	889.2	890.0	890.1
135°	934.3	935.3	936.2	937.0	937.8	938.7	939.3	940.0	940.6	941.3	941.3
137.5°	981.1	982.1	982.6	983.1	983.5	984.0	985.0	986.0	987.0	988.0	988.3
140°	1010.1	1011.0	1011.6	1012.3	1012.9	1013.5	1014.4	1015.2	1016.0	1016.9	1017.1
142.5°	1038.1	1039.0	1039.7	1040.3	1041.0	1041.5	1042.3	1042.9	1043.6	1044.2	1044.3
145°	1078.2	1079.1	1079.5	1079.9	1080.4	1080.8	1081.2	1081.7	1082.1	1082.5	1082.6
147.5°	1113.0	1113.8	1114.2	1114.6	1115.0	1115.4	1115.9	1116.3	1116.7	1117.1	1116.9
150°	1134.5	1135.0	1135.4	1135.8	1136.3	1136.7	1137.1	1137.5	1137.9	1138.3	1138.2
152.5°	1153.6	1153.8	1154.1	1154.4	1154.6	1154.9	1155.6	1156.3	1157.2	1157.9	1157.8
155°	1179.5	1179.4	1179.6	1179.8	1180.1	1180.2	1181.3	1182.3	1183.4	1184.5	1184.3
157.5°	1203.4	1203.2	1203.1	1202.8	1202.6	1202.4	1203.7	1204.9	1206.2	1207.5	1207.3
160°	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1216.6	1217.8	1219.0	1220.3	1220.3
162.5°	1227.8	1227.5	1227.3	1227.1	1226.9	1226.6	1228.1	1229.6	1230.9	1232.4	1232.4
165°	1243.1	1242.7	1242.4	1242.2	1242.0	1241.8	1243.5	1245.2	1246.8	1248.5	1248.6
167.5°	1254.3	1253.9	1253.9	1253.9	1253.9	1253.9	1255.6	1257.3	1259.0	1260.7	1260.7
170°	1261.2	1260.8	1260.8	1260.8	1260.8	1260.8	1262.4	1264.1	1265.8	1267.5	1267.5
172.5°	1265.0	1264.6	1264.8	1264.9	1265.1	1265.3	1267.0	1268.7	1270.3	1272.0	1271.9
175°	1270.7	1270.3	1270.6	1270.7	1271.0	1271.1	1272.7	1274.1	1275.6	1277.1	1276.9
177.5°	1273.1	1272.8	1272.9	1273.1	1273.3	1273.4	1274.8	1276.1	1277.5	1278.8	1278.6
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



TEST NUMBER: P331946-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	616.3	616.0	617.8	616.5	617.8	616.0	616.3	618.0	618.5	618.7	618.7
5°	573.6	574.5	571.4	571.4	571.4	574.5	573.6	575.5	577.1	578.3	580.2
7.5°	535.7	534.3	534.4	532.7	534.4	534.3	535.7	537.1	539.2	541.8	544.5
10°	512.4	510.5	509.9	510.2	509.9	510.5	512.4	516.2	517.4	519.9	522.7
12.5°	493.2	492.8	488.7	488.8	488.7	492.8	493.2	494.2	496.9	502.1	505.5
15°	470.6	464.6	464.0	465.9	464.0	464.6	470.6	470.6	471.8	475.9	477.8
17.5°	447.9	444.7	445.0	444.0	445.0	444.7	447.9	448.4	449.4	452.7	455.2
20°	435.9	434.1	433.7	431.5	433.7	434.1	435.9	435.9	437.2	438.7	441.2
22.5°	424.9	424.3	424.4	422.1	424.4	424.3	424.9	425.7	426.9	428.0	429.7
25°	411.2	412.8	411.6	411.6	411.6	412.8	411.2	411.6	411.9	413.4	414.7
27.5°	402.0	401.9	401.3	401.3	401.3	401.9	402.0	401.2	400.9	400.3	400.1
30°	395.0	394.7	395.3	395.3	395.3	394.7	395.0	393.8	393.1	392.8	391.6
32.5°	388.0	388.4	388.6	388.8	388.6	388.4	388.0	386.5	385.4	384.6	383.6
35°	377.2	377.5	378.5	377.8	378.5	377.5	377.2	375.4	374.1	372.2	370.6
37.5°	362.6	364.0	363.7	364.2	363.7	364.0	362.6	362.0	360.8	359.4	357.5
40°	351.6	352.5	352.2	352.2	352.2	352.5	351.6	351.3	350.0	349.1	347.6
42.5°	340.4	341.0	340.2	339.7	340.2	341.0	340.4	339.8	339.1	337.4	335.6
45°	322.0	321.3	322.3	321.0	322.3	321.3	322.0	320.7	320.4	319.1	317.6
47.5°	301.3	302.0	302.2	303.1	302.2	302.0	301.3	301.4	299.7	299.0	298.5
50°	287.6	289.4	289.4	289.2	289.4	289.4	287.6	287.0	285.7	284.5	284.5
52.5°	274.1	275.0	276.2	276.1	276.2	275.0	274.1	273.0	271.7	269.9	269.5
55°	253.2	253.9	254.5	254.8	254.5	253.9	253.2	250.7	249.8	248.8	247.3
57.5°	231.6	231.4	232.8	233.3	232.8	231.4	231.6	229.3	228.0	225.1	224.7
60°	216.4	216.4	218.9	219.8	218.9	216.4	216.4	213.9	211.7	209.9	209.2
62.5°	200.2	201.1	203.7	202.4	203.7	201.1	200.2	197.4	195.8	193.4	191.8
65°	176.4	179.0	178.6	179.9	178.6	179.0	176.4	174.9	171.5	169.3	167.4
67.5°	151.6	153.2	155.5	155.6	155.5	153.2	151.6	149.1	146.9	144.6	142.4
70°	134.9	136.5	137.7	138.6	137.7	136.5	134.9	132.4	129.9	128.3	125.8
72.5°	118.6	119.4	122.5	121.2	122.5	119.4	118.6	115.7	113.7	112.3	109.6
75°	93.0	95.2	97.1	96.2	97.1	95.2	93.0	90.9	89.3	87.4	85.0
77.5°	68.8	71.0	71.9	71.1	71.9	71.0	68.8	67.4	66.6	62.9	62.6
80°	54.3	54.1	55.9	55.6	55.9	54.1	54.3	52.2	50.5	48.4	48.4
82.5°	39.9	39.5	40.4	40.6	40.4	39.5	39.9	38.6	36.6	35.6	34.9
85°	19.3	20.3	19.1	18.8	19.1	20.3	19.3	18.1	18.1	18.1	17.8
87.5°	9.9	10.0	9.9	9.7	9.9	10.0	9.9	9.9	10.7	9.8	9.6
90°	27.1	27.6	28.0	28.5	28.0	27.6	27.1	26.7	26.1	25.3	24.4
92.5°	30.7	31.0	31.2	31.5	31.2	31.0	30.7	30.4	29.7	28.3	26.9
95°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	35.2	33.8	32.3
97.5°	38.4	38.6	38.8	39.1	38.8	38.6	38.4	38.2	37.3	35.5	33.8
100°	39.1	39.4	39.5	39.8	39.5	39.4	39.1	39.0	38.0	36.3	34.7
102.5°	39.4	39.8	40.2	40.5	40.2	39.8	39.4	39.1	41.4	46.6	51.9
105°	40.4	40.8	41.3	41.7	41.3	40.8	40.4	40.0	58.4	95.6	132.9
107.5°	215.2	187.0	159.0	130.9	159.0	187.0	215.2	243.2	270.9	298.2	325.5
110°	350.8	320.7	290.6	260.5	290.6	320.7	350.8	380.9	399.4	406.3	413.3



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CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	465.9	459.6	453.2	446.9	453.2	459.6	465.9	472.3	475.5	475.3	475.2
115°	554.4	555.3	556.1	556.9	556.1	555.3	554.4	553.6	552.1	550.0	547.9
117.5°	618.2	618.4	618.6	618.7	618.6	618.4	618.2	618.1	617.1	615.5	613.8
120°	661.1	661.1	661.1	661.1	661.1	661.1	661.1	661.1	660.3	658.6	657.0
122.5°	702.3	702.5	702.7	702.9	702.7	702.5	702.3	702.1	701.5	700.3	699.1
125°	760.3	760.8	761.2	761.6	761.2	760.8	760.3	759.9	759.5	759.0	758.6
127.5°	819.3	818.9	818.5	818.0	818.5	818.9	819.3	819.7	819.5	818.9	818.2
130°	855.7	855.2	854.8	854.4	854.8	855.2	855.7	856.1	855.9	855.0	854.2
132.5°	889.5	888.9	888.4	887.7	888.4	888.9	889.5	890.1	890.0	889.2	888.3
135°	940.6	940.0	939.3	938.7	939.3	940.0	940.6	941.3	941.3	940.6	940.0
137.5°	987.9	987.5	987.1	986.6	987.1	987.5	987.9	988.3	988.0	987.0	986.0
140°	1016.7	1016.3	1015.9	1015.5	1015.9	1016.3	1016.7	1017.1	1016.9	1016.0	1015.2
142.5°	1043.7	1043.1	1042.5	1042.0	1042.5	1043.1	1043.7	1044.3	1044.2	1043.6	1042.9
145°	1082.6	1082.6	1082.6	1082.6	1082.6	1082.6	1082.6	1082.6	1082.5	1082.1	1081.7
147.5°	1115.9	1114.9	1113.9	1113.0	1113.9	1114.9	1115.9	1116.9	1117.1	1116.7	1116.3
150°	1137.6	1137.0	1136.4	1135.7	1136.4	1137.0	1137.6	1138.2	1138.3	1137.9	1137.5
152.5°	1156.8	1155.8	1154.9	1153.9	1154.9	1155.8	1156.8	1157.8	1157.9	1157.2	1156.3
155°	1183.1	1181.9	1180.6	1179.3	1180.6	1181.9	1183.1	1184.3	1184.5	1183.4	1182.3
157.5°	1205.7	1204.0	1202.3	1200.7	1202.3	1204.0	1205.7	1207.3	1207.5	1206.2	1204.9
160°	1218.8	1217.3	1215.8	1214.3	1215.8	1217.3	1218.8	1220.3	1220.3	1219.0	1217.8
162.5°	1231.1	1229.8	1228.5	1227.2	1228.5	1229.8	1231.1	1232.4	1232.4	1230.9	1229.6
165°	1247.2	1245.7	1244.2	1242.8	1244.2	1245.7	1247.2	1248.6	1248.5	1246.8	1245.2
167.5°	1259.0	1257.3	1255.6	1253.9	1255.6	1257.3	1259.0	1260.7	1260.7	1259.0	1257.3
170°	1265.8	1264.1	1262.4	1260.8	1262.4	1264.1	1265.8	1267.5	1267.5	1265.8	1264.1
172.5°	1270.1	1268.3	1266.4	1264.5	1266.4	1268.3	1270.1	1271.9	1272.0	1270.3	1268.7
175°	1275.3	1273.6	1271.9	1270.2	1271.9	1273.6	1275.3	1276.9	1277.1	1275.6	1274.1
177.5°	1277.0	1275.3	1273.6	1271.9	1273.6	1275.3	1277.0	1278.6	1278.8	1277.5	1276.1
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



TEST NUMBER: P331946-930

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	618.0	618.0	622.7	625.7	629.5	632.0	633.7	635.5	638.5	642.5	647.0
5°	582.7	583.9	590.8	597.7	604.2	609.8	614.5	620.1	627.0	635.4	644.8
7.5°	548.5	553.3	560.2	568.6	577.7	586.0	594.2	603.5	613.1	625.6	638.7
10°	526.4	531.7	540.2	550.8	560.5	570.1	580.5	590.4	602.7	617.3	634.2
12.5°	507.2	512.3	521.0	532.6	541.8	552.4	564.3	577.2	590.9	608.6	627.7
15°	480.5	486.5	497.1	502.7	516.8	529.6	540.5	559.2	576.7	594.8	617.0
17.5°	458.7	462.0	470.6	481.0	491.5	505.9	520.2	535.8	553.3	575.4	603.2
20°	443.7	446.5	455.9	466.8	478.1	491.2	504.0	519.6	539.2	562.7	592.6
22.5°	432.4	435.5	441.6	453.3	463.8	474.7	487.5	506.1	527.0	549.9	582.4
25°	416.2	418.1	422.2	431.5	440.9	453.1	464.3	481.8	503.4	530.2	562.7
27.5°	400.8	402.6	406.0	412.7	421.5	431.4	443.6	458.4	480.3	509.5	544.0
30°	391.6	391.9	395.0	401.2	408.7	416.9	428.1	445.0	465.5	495.2	531.5
32.5°	383.6	382.4	384.5	389.2	396.5	404.6	413.8	430.5	450.4	479.5	516.7
35°	370.0	369.4	368.4	372.5	378.8	385.0	393.1	405.6	428.1	455.3	494.3
37.5°	356.2	354.7	353.0	354.9	359.8	366.3	373.3	384.4	403.8	433.7	471.1
40°	346.0	344.7	343.8	343.2	347.6	353.8	359.1	369.7	387.8	416.2	453.1
42.5°	334.8	334.0	332.8	331.9	335.6	340.3	345.8	355.2	373.3	400.0	434.9
45°	316.7	316.0	315.4	314.8	316.9	321.3	325.7	332.6	348.1	374.1	405.6
47.5°	296.4	295.6	295.9	294.9	297.0	299.9	303.0	310.4	325.4	346.3	369.3
50°	281.9	281.7	281.7	281.7	282.3	285.7	288.5	294.2	307.9	328.8	345.4
52.5°	268.2	266.9	266.9	267.4	268.6	270.8	272.6	278.7	290.7	307.9	322.9
55°	246.7	244.2	243.5	244.2	245.2	247.0	248.8	253.9	264.2	277.0	285.7
57.5°	222.8	221.4	220.6	220.8	221.3	222.7	224.2	229.7	237.7	244.4	250.1
60°	206.1	206.7	203.9	204.6	204.6	205.8	208.0	211.4	218.3	223.0	228.6
62.5°	190.4	189.5	188.7	187.8	187.8	188.3	191.2	193.9	199.7	202.2	206.6
65°	165.8	165.8	164.0	164.5	164.9	162.7	164.3	167.4	171.1	172.0	176.1
67.5°	141.0	140.1	139.0	138.1	138.1	137.9	138.7	140.2	143.1	143.4	146.5
70°	123.9	123.4	123.0	122.1	120.8	122.4	121.5	123.0	124.6	124.9	126.8
72.5°	107.5	106.9	106.3	105.3	104.8	104.7	104.8	106.6	107.6	107.1	109.3
75°	84.0	83.4	82.8	81.2	81.2	80.2	80.6	81.8	83.1	82.1	84.0
77.5°	61.7	59.8	59.7	60.1	59.0	59.2	58.9	58.6	59.2	59.3	61.0
80°	47.5	45.2	45.9	45.6	45.2	45.0	44.4	44.7	45.0	45.2	46.2
82.5°	34.2	34.0	33.4	33.3	33.0	32.2	31.9	32.4	32.7	32.5	33.3
85°	17.4	16.6	17.2	16.9	17.2	16.9	15.9	15.9	16.6	16.2	16.9
87.5°	9.9	9.8	9.0	8.7	7.9	7.6	6.8	6.7	6.5	6.1	6.2
90°	23.6	22.7	20.0	17.3	14.5	11.8	9.4	7.3	5.1	3.0	1.0
92.5°	25.6	24.2	22.2	20.1	18.1	16.0	15.2	15.8	16.5	17.0	17.6
95°	30.8	29.4	27.1	24.7	22.4	20.1	23.2	31.9	40.5	49.2	57.8
97.5°	32.2	30.5	45.7	60.8	76.0	91.2	100.6	104.5	108.4	112.3	116.1
100°	32.9	31.2	64.1	96.9	129.8	162.6	176.9	172.7	168.5	164.3	160.0
102.5°	57.1	62.3	98.2	134.0	169.9	205.8	222.3	219.2	216.1	213.1	210.1
105°	170.2	207.4	226.4	245.3	264.2	283.2	291.6	289.2	286.9	284.6	282.3
107.5°	352.9	380.3	377.2	374.2	371.3	368.3	365.8	363.9	362.2	360.3	358.4
110°	420.3	427.2	424.9	422.6	420.3	417.9	416.0	414.3	412.5	410.9	409.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	475.1	474.9	472.6	470.3	468.0	465.7	463.7	462.3	460.7	459.2	457.7
115°	545.8	543.7	541.8	539.9	538.0	536.1	534.5	533.3	532.0	530.8	529.5
117.5°	612.0	610.4	609.4	608.5	607.5	606.5	605.3	603.7	602.1	600.5	599.0
120°	655.3	653.5	653.0	652.3	651.7	651.1	649.8	647.9	646.0	644.1	642.2
122.5°	698.0	696.8	695.9	695.2	694.4	693.6	692.4	690.8	689.3	687.7	686.2
125°	758.2	757.7	756.9	756.1	755.2	754.4	753.2	751.5	749.7	748.1	746.4
127.5°	817.6	816.8	815.9	814.9	813.8	812.9	811.5	809.8	808.1	806.4	804.8
130°	853.4	852.5	851.7	850.8	849.9	849.1	847.8	846.2	844.5	842.9	841.1
132.5°	887.5	886.6	885.9	885.3	884.6	883.9	882.7	881.0	879.4	877.7	876.0
135°	939.3	938.7	937.8	937.0	936.2	935.3	934.3	933.0	931.7	930.5	929.2
137.5°	985.0	984.0	983.5	983.1	982.6	982.1	981.1	979.5	977.9	976.3	974.7
140°	1014.4	1013.5	1012.9	1012.3	1011.6	1011.0	1010.1	1008.8	1007.5	1006.2	1005.0
142.5°	1042.3	1041.5	1041.0	1040.3	1039.7	1039.0	1038.1	1036.8	1035.6	1034.3	1033.1
145°	1081.2	1080.8	1080.4	1079.9	1079.5	1079.1	1078.2	1076.7	1075.2	1073.7	1072.3
147.5°	1115.9	1115.4	1115.0	1114.6	1114.2	1113.8	1113.0	1112.1	1111.2	1110.2	1109.2
150°	1137.1	1136.7	1136.3	1135.8	1135.4	1135.0	1134.5	1133.8	1133.2	1132.5	1132.0
152.5°	1155.6	1154.9	1154.6	1154.4	1154.1	1153.8	1153.6	1153.2	1153.0	1152.7	1152.4
155°	1181.3	1180.2	1180.1	1179.8	1179.6	1179.4	1179.5	1179.9	1180.3	1180.8	1181.2
157.5°	1203.7	1202.4	1202.6	1202.8	1203.1	1203.2	1203.4	1203.4	1203.5	1203.5	1203.5
160°	1216.6	1215.3	1215.5	1215.7	1215.9	1216.1	1216.3	1216.6	1216.8	1217.0	1217.2
162.5°	1228.1	1226.6	1226.9	1227.1	1227.3	1227.5	1227.8	1228.4	1229.0	1229.6	1230.0
165°	1243.5	1241.8	1242.0	1242.2	1242.4	1242.7	1243.1	1243.7	1244.3	1245.0	1245.6
167.5°	1255.6	1253.9	1253.9	1253.9	1253.9	1253.9	1254.3	1255.2	1256.1	1256.9	1257.8
170°	1262.4	1260.8	1260.8	1260.8	1260.8	1260.8	1261.2	1262.0	1262.9	1263.7	1264.5
172.5°	1267.0	1265.3	1265.1	1264.9	1264.8	1264.6	1265.0	1266.1	1267.1	1268.1	1269.1
175°	1272.7	1271.1	1271.0	1270.7	1270.6	1270.3	1270.7	1271.8	1272.8	1273.9	1275.0
177.5°	1274.8	1273.4	1273.3	1273.1	1272.9	1272.8	1273.1	1274.0	1274.8	1275.6	1276.5
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



TEST NUMBER: P331946-930

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	648.5	649.7	654.0	657.0	660.5	662.5	664.5	666.0	668.0	668.5	675.7
5°	651.3	657.6	668.5	676.6	686.6	697.6	705.1	708.5	717.5	725.0	740.0
7.5°	650.5	663.8	680.4	697.5	715.8	732.8	747.5	765.0	777.5	796.1	814.6
10°	649.8	667.6	688.8	710.7	736.3	760.0	781.3	805.0	824.7	850.6	872.8
12.5°	647.6	669.1	698.5	724.4	755.5	788.2	819.7	850.2	867.6	910.8	931.2
15°	642.0	667.6	704.4	743.8	786.6	825.3	865.3	897.1	948.6	986.4	1010.5
17.5°	631.4	667.2	710.9	758.4	810.4	861.4	906.7	955.0	1009.7	1055.4	1104.2
20°	626.4	665.7	714.4	766.9	820.9	878.6	930.2	988.3	1047.9	1092.9	1155.4
22.5°	617.2	661.7	714.2	772.7	830.4	890.1	950.5	1009.0	1077.9	1139.9	1199.3
25°	602.0	652.0	706.3	771.6	839.4	899.3	971.4	1049.2	1121.0	1200.6	1260.0
27.5°	586.2	639.5	694.0	754.6	827.5	898.7	989.4	1077.3	1165.1	1233.9	1277.7
30°	573.9	625.7	682.0	743.1	815.3	899.9	1001.4	1097.2	1182.8	1241.9	1266.5
32.5°	560.7	613.3	663.0	727.2	804.0	899.2	1008.9	1109.0	1183.8	1223.1	1218.3
35°	539.9	583.9	632.3	694.1	784.7	893.6	1013.3	1110.0	1155.9	1147.5	1083.9
37.5°	509.9	547.0	594.6	662.3	762.2	882.2	1004.5	1077.2	1074.2	1005.5	913.2
40°	491.2	522.7	568.6	639.8	744.7	874.7	990.8	1038.0	998.0	902.1	791.6
42.5°	466.7	495.7	541.6	614.8	725.5	859.4	964.6	978.2	900.0	789.7	688.4
45°	428.8	454.4	501.8	577.4	696.7	826.2	900.6	867.2	761.9	647.9	570.8
47.5°	387.9	414.6	460.2	537.9	654.9	776.3	811.7	740.7	632.6	540.2	469.4
50°	362.2	387.8	432.4	510.9	626.7	735.4	750.1	658.3	559.0	477.8	419.6
52.5°	336.2	360.4	404.2	482.9	593.7	687.9	678.8	585.3	494.0	424.8	379.2
55°	297.6	320.4	362.2	435.9	536.8	611.4	578.6	489.3	413.8	360.0	325.4
57.5°	263.0	284.9	320.9	387.5	475.2	526.4	484.8	409.5	349.4	308.1	282.3
60°	239.5	258.9	293.2	355.1	431.2	470.3	429.0	362.6	311.9	278.8	255.8
62.5°	217.3	234.2	266.0	322.0	388.2	421.0	379.4	323.0	280.0	250.6	231.0
65°	183.6	198.9	227.0	270.8	325.1	346.9	311.0	265.4	232.0	210.2	197.1
67.5°	152.9	165.8	190.1	224.5	264.6	280.5	253.2	217.8	192.7	175.1	164.7
70°	132.4	143.7	162.7	192.3	228.6	240.8	215.2	186.1	167.7	153.6	144.0
72.5°	115.1	123.4	140.7	163.6	193.9	203.5	185.6	160.1	142.9	132.4	124.7
75°	87.7	94.6	105.8	124.3	145.2	150.8	137.4	121.5	109.9	102.4	96.4
77.5°	63.3	68.3	76.5	87.8	102.3	107.4	98.9	88.2	79.8	74.8	71.4
80°	47.8	51.9	58.7	68.1	76.8	79.7	74.6	66.5	60.6	57.8	55.0
82.5°	35.3	37.6	41.7	48.1	54.1	57.4	53.2	48.3	45.1	42.6	41.5
85°	17.8	19.1	21.0	23.4	27.1	28.5	26.8	25.6	23.7	22.2	22.2
87.5°	7.1	7.5	8.7	9.6	11.1	12.4	12.7	12.7	13.0	13.0	12.9
90°	3.0	5.1	7.3	9.4	11.8	14.5	17.3	20.0	22.7	23.6	24.4
92.5°	17.0	16.5	15.8	15.2	16.0	18.1	20.1	22.2	24.2	25.6	26.9
95°	49.2	40.5	31.9	23.2	20.1	22.4	24.7	27.1	29.4	30.8	32.3
97.5°	112.3	108.4	104.5	100.6	91.2	76.0	60.8	45.7	30.5	32.2	33.8
100°	164.3	168.5	172.7	176.9	162.6	129.8	96.9	64.1	31.2	32.9	34.7
102.5°	213.1	216.1	219.2	222.3	205.8	169.9	134.0	98.2	62.3	57.1	51.9
105°	284.6	286.9	289.2	291.6	283.2	264.2	245.3	226.4	207.4	170.2	132.9
107.5°	360.3	362.2	363.9	365.8	368.3	371.3	374.2	377.2	380.3	352.9	325.5
110°	410.9	412.5	414.3	416.0	417.9	420.3	422.6	424.9	427.2	420.3	413.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	459.2	460.7	462.3	463.7	465.7	468.0	470.3	472.6	474.9	475.1	475.2
115°	530.8	532.0	533.3	534.5	536.1	538.0	539.9	541.8	543.7	545.8	547.9
117.5°	600.5	602.1	603.7	605.3	606.5	607.5	608.5	609.4	610.4	612.0	613.8
120°	644.1	646.0	647.9	649.8	651.1	651.7	652.3	653.0	653.5	655.3	657.0
122.5°	687.7	689.3	690.8	692.4	693.6	694.4	695.2	695.9	696.8	698.0	699.1
125°	748.1	749.7	751.5	753.2	754.4	755.2	756.1	756.9	757.7	758.2	758.6
127.5°	806.4	808.1	809.8	811.5	812.9	813.8	814.9	815.9	816.8	817.6	818.2
130°	842.9	844.5	846.2	847.8	849.1	849.9	850.8	851.7	852.5	853.4	854.2
132.5°	877.7	879.4	881.0	882.7	883.9	884.6	885.3	885.9	886.6	887.5	888.3
135°	930.5	931.7	933.0	934.3	935.3	936.2	937.0	937.8	938.7	939.3	940.0
137.5°	976.3	977.9	979.5	981.1	982.1	982.6	983.1	983.5	984.0	985.0	986.0
140°	1006.2	1007.5	1008.8	1010.1	1011.0	1011.6	1012.3	1012.9	1013.5	1014.4	1015.2
142.5°	1034.3	1035.6	1036.8	1038.1	1039.0	1039.7	1040.3	1041.0	1041.5	1042.3	1042.9
145°	1073.7	1075.2	1076.7	1078.2	1079.1	1079.5	1079.9	1080.4	1080.8	1081.2	1081.7
147.5°	1110.2	1111.2	1112.1	1113.0	1113.8	1114.2	1114.6	1115.0	1115.4	1115.9	1116.3
150°	1132.5	1133.2	1133.8	1134.5	1135.0	1135.4	1135.8	1136.3	1136.7	1137.1	1137.5
152.5°	1152.7	1153.0	1153.2	1153.6	1153.8	1154.1	1154.4	1154.6	1154.9	1155.6	1156.3
155°	1180.8	1180.3	1179.9	1179.5	1179.4	1179.6	1179.8	1180.1	1180.2	1181.3	1182.3
157.5°	1203.5	1203.5	1203.4	1203.4	1203.2	1203.1	1202.8	1202.6	1202.4	1203.7	1204.9
160°	1217.0	1216.8	1216.6	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1216.6	1217.8
162.5°	1229.6	1229.0	1228.4	1227.8	1227.5	1227.3	1227.1	1226.9	1226.6	1228.1	1229.6
165°	1245.0	1244.3	1243.7	1243.1	1242.7	1242.4	1242.2	1242.0	1241.8	1243.5	1245.2
167.5°	1256.9	1256.1	1255.2	1254.3	1253.9	1253.9	1253.9	1253.9	1253.9	1255.6	1257.3
170°	1263.7	1262.9	1262.0	1261.2	1260.8	1260.8	1260.8	1260.8	1260.8	1262.4	1264.1
172.5°	1268.1	1267.1	1266.1	1265.0	1264.6	1264.8	1264.9	1265.1	1265.3	1267.0	1268.7
175°	1273.9	1272.8	1271.8	1270.7	1270.3	1270.6	1270.7	1271.0	1271.1	1272.7	1274.1
177.5°	1275.6	1274.8	1274.0	1273.1	1272.8	1272.9	1273.1	1273.3	1273.4	1274.8	1276.1
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	678.2	678.5	681.2	683.2	682.2	683.5	684.0
5°	740.9	752.2	758.1	762.5	762.9	763.1	765.6
7.5°	830.0	842.0	850.8	864.2	868.2	872.8	871.5
10°	895.0	912.7	928.1	936.1	944.9	957.7	947.4
12.5°	955.6	987.2	1010.5	1023.0	1031.4	1033.9	1028.8
15°	1055.7	1097.0	1119.2	1118.5	1146.6	1158.8	1139.7
17.5°	1147.5	1185.6	1216.0	1231.7	1255.1	1260.3	1257.9
20°	1203.7	1245.3	1269.0	1295.8	1308.1	1319.0	1320.9
22.5°	1252.2	1289.5	1315.0	1337.3	1347.5	1352.7	1355.8
25°	1302.1	1331.5	1346.8	1354.5	1357.4	1356.7	1352.7
27.5°	1298.7	1300.9	1284.1	1267.5	1252.7	1236.0	1230.3
30°	1264.9	1238.7	1191.9	1165.3	1126.3	1095.4	1107.9
32.5°	1176.2	1124.1	1071.5	1013.4	965.4	951.8	938.0
35°	1003.9	912.1	858.4	796.0	770.9	746.0	728.8
37.5°	812.2	741.2	677.4	636.6	611.6	595.8	587.3
40°	702.3	638.2	585.8	552.7	533.6	515.8	513.3
42.5°	614.6	555.1	515.6	489.3	470.9	463.4	457.9
45°	503.4	461.8	435.3	416.5	404.4	399.7	393.5
47.5°	426.1	396.7	376.7	364.0	354.8	351.3	350.8
50°	382.9	358.5	343.8	333.8	326.6	325.4	320.4
52.5°	350.3	329.2	317.8	309.1	303.9	300.4	298.9
55°	304.1	290.1	279.8	274.8	270.8	267.3	267.3
57.5°	266.1	254.4	247.5	243.3	242.1	239.6	238.1
60°	242.6	232.6	227.3	223.6	221.1	221.4	218.6
62.5°	219.6	213.1	208.1	204.3	201.4	201.4	201.6
65°	187.0	182.1	178.3	177.1	175.2	173.0	173.6
67.5°	158.5	153.8	150.9	148.8	148.1	146.9	148.8
70°	138.0	134.6	132.4	130.5	129.9	130.2	131.8
72.5°	119.3	116.8	115.4	114.5	113.2	113.2	114.3
75°	93.7	91.8	90.6	89.6	89.3	89.3	89.3
77.5°	68.8	68.4	67.8	66.4	66.5	66.9	66.9
80°	54.3	53.4	53.1	52.4	51.5	50.9	52.4
82.5°	40.6	39.6	39.4	39.2	37.7	37.7	39.0
85°	21.9	21.0	21.2	21.0	21.0	20.6	20.6
87.5°	12.8	12.7	12.6	13.0	12.7	12.6	13.2
90°	25.3	26.1	26.7	27.1	27.6	28.0	28.5
92.5°	28.3	29.7	30.4	30.7	31.0	31.2	31.5
95°	33.8	35.2	36.0	36.0	36.0	36.0	36.0
97.5°	35.5	37.3	38.2	38.4	38.6	38.8	39.1
100°	36.3	38.0	39.0	39.1	39.4	39.5	39.8
102.5°	46.6	41.4	39.1	39.4	39.8	40.2	40.5
105°	95.6	58.4	40.0	40.4	40.8	41.3	41.7
107.5°	298.2	270.9	243.2	215.2	187.0	159.0	130.9
110°	406.3	399.4	380.9	350.8	320.7	290.6	260.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	475.3	475.5	472.3	465.9	459.6	453.2	446.9
115°	550.0	552.1	553.6	554.4	555.3	556.1	556.9
117.5°	615.5	617.1	618.1	618.2	618.4	618.6	618.7
120°	658.6	660.3	661.1	661.1	661.1	661.1	661.1
122.5°	700.3	701.5	702.1	702.3	702.5	702.7	702.9
125°	759.0	759.5	759.9	760.3	760.8	761.2	761.6
127.5°	818.9	819.5	819.7	819.3	818.9	818.5	818.0
130°	855.0	855.9	856.1	855.7	855.2	854.8	854.4
132.5°	889.2	890.0	890.1	889.5	888.9	888.4	887.7
135°	940.6	941.3	941.3	940.6	940.0	939.3	938.7
137.5°	987.0	988.0	988.3	987.9	987.5	987.1	986.6
140°	1016.0	1016.9	1017.1	1016.7	1016.3	1015.9	1015.5
142.5°	1043.6	1044.2	1044.3	1043.7	1043.1	1042.5	1042.0
145°	1082.1	1082.5	1082.6	1082.6	1082.6	1082.6	1082.6
147.5°	1116.7	1117.1	1116.9	1115.9	1114.9	1113.9	1113.0
150°	1137.9	1138.3	1138.2	1137.6	1137.0	1136.4	1135.7
152.5°	1157.2	1157.9	1157.8	1156.8	1155.8	1154.9	1153.9
155°	1183.4	1184.5	1184.3	1183.1	1181.9	1180.6	1179.3
157.5°	1206.2	1207.5	1207.3	1205.7	1204.0	1202.3	1200.7
160°	1219.0	1220.3	1220.3	1218.8	1217.3	1215.8	1214.3
162.5°	1230.9	1232.4	1232.4	1231.1	1229.8	1228.5	1227.2
165°	1246.8	1248.5	1248.6	1247.2	1245.7	1244.2	1242.8
167.5°	1259.0	1260.7	1260.7	1259.0	1257.3	1255.6	1253.9
170°	1265.8	1267.5	1267.5	1265.8	1264.1	1262.4	1260.8
172.5°	1270.3	1272.0	1271.9	1270.1	1268.3	1266.4	1264.5
175°	1275.6	1277.1	1276.9	1275.3	1273.6	1271.9	1270.2
177.5°	1277.5	1278.8	1278.6	1277.0	1275.3	1273.6	1271.9
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0

(END OF REPORT)