

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: P331507-840

Luminaire Tested: **S122DIW-S485D970U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331507-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S485D970U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6076.4 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

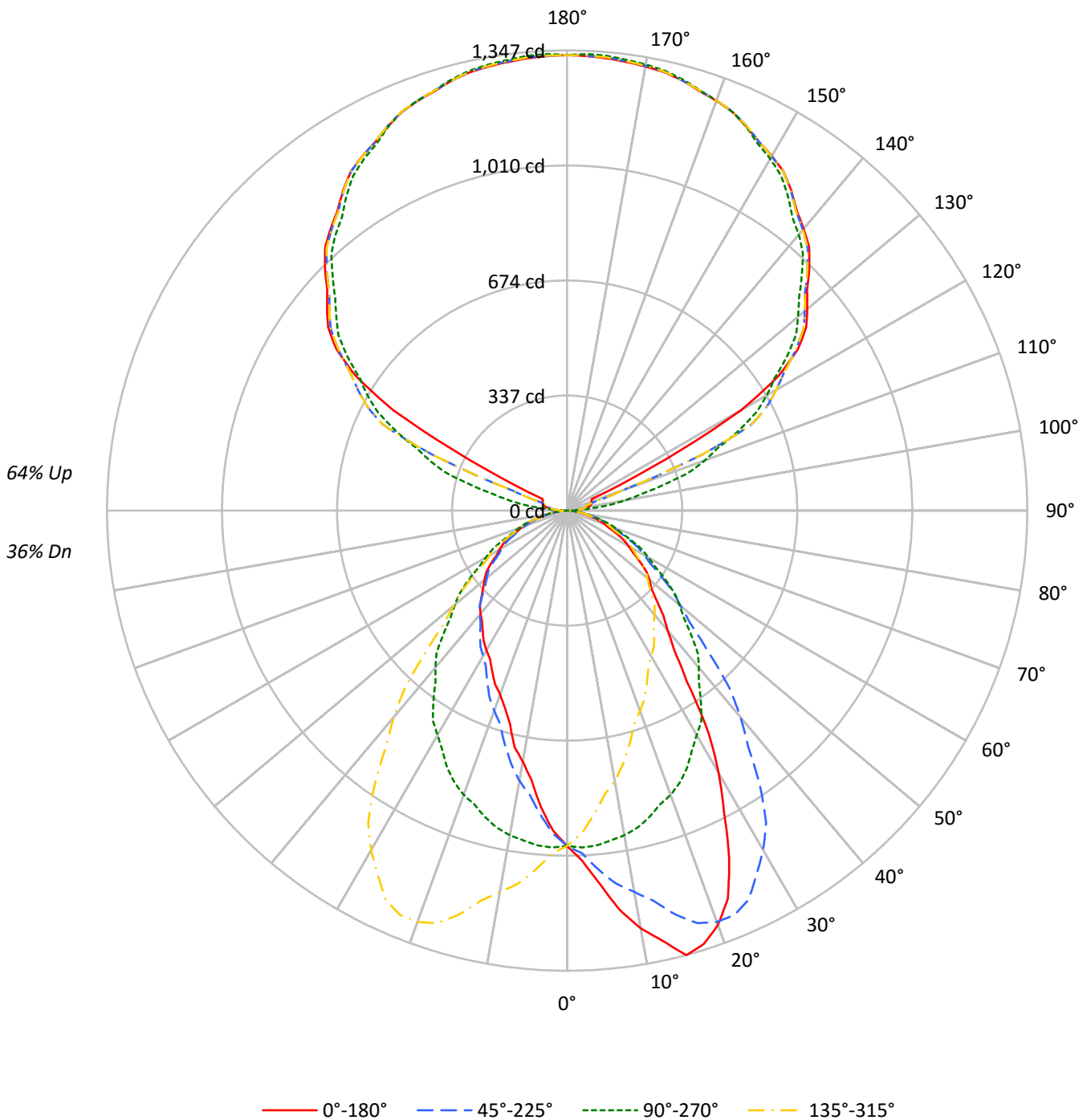
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

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	75	75	75	58	58	58	43	43	43	36				
1	95	91	87	84	86	82	79	76	66	64	62	52	51	49	38	38	37	31				
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26				
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23				
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	28	26	24	20				
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17				
6	61	50	42	37	56	46	39	34	38	32	29	30	26	24	23	20	19	15				
7	57	45	37	32	51	41	35	30	34	29	25	27	24	21	21	18	17	14				
8	53	41	34	28	48	38	31	26	31	26	23	25	21	19	19	17	15	12				
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	18	15	14	11				
10	46	34	27	23	42	31	25	21	26	21	18	21	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15844	15844	15844	15844
5°	17763	15948	14131	15948
10°	20354	15816	12231	15816
15°	22519	15527	10805	15527
20°	22175	15216	9850	15216
25°	19996	14801	9246	14801
30°	16524	14139	8804	14139
35°	12043	13448	8489	13448
40°	9619	12631	8315	12631
45°	8405	11686	8079	11686
50°	7902	10771	7920	10771
55°	7282	9841	7707	9841
60°	6675	8854	7379	8854
65°	6082	7966	7060	7966
70°	5519	7105	6590	7105
75°	4897	6145	5833	6145
80°	4203	5086	4695	5086
85°	3779	3779	2779	3779



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.5
10°-20°	271.7	4.5
20°-30°	394.3	6.5
30°-40°	416.1	6.8
40°-50°	368.4	6.1
50°-60°	294.0	4.8
60°-70°	199.8	3.3
70°-80°	102.5	1.7
80°-90°	28.0	0.5
90°-100°	44.5	0.7
100°-110°	163.1	2.7
110°-120°	436.1	7.2
120°-130°	719.8	11.8
130°-140°	765.5	12.6
140°-150°	711.5	11.7
150°-160°	572.1	9.4
160°-170°	368.6	6.1
170°-180°	126.9	2.1
0°-30°	759.5	12.5
0°-40°	1175.6	19.3
0°-60°	1838.0	30.2
0°-90°	2168.3	35.7
90°-120°	643.7	10.6
90°-150°	2840.5	46.7
90°-180°	3908.0	64.3
0°-180°	6076.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	981	981	981	981	981	
5°	1096	984	872	984	1096	109
15°	1347	929	646	929	1347	372
25°	1122	831	519	831	1122	507
35°	611	682	431	682	611	397
45°	368	512	354	512	368	289
55°	259	350	274	350	259	232
65°	159	208	185	208	159	158
75°	78	98	94	98	78	84
85°	20	20	15	20	20	23
90°	26	1	26	1	26	13
95°	42	63	42	63	42	39
105°	73	293	73	293	73	76
115°	79	555	79	555	79	198
125°	825	784	825	784	825	714
135°	1003	971	1003	971	1003	773
145°	1144	1126	1144	1126	1144	715
155°	1241	1240	1241	1240	1241	573
165°	1304	1307	1304	1307	1304	368
175°	1329	1336	1329	1336	1329	127
180°	1334	1334	1334	1334	1334	



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1026.6	1026.9	1027.4	1022.7	1022.1	1022.1	1017.8	1014.2	1010.0	1004.2	1004.8
5°	1096.0	1100.1	1101.7	1097.1	1090.4	1089.5	1083.2	1072.6	1062.8	1054.9	1049.2
7.5°	1178.8	1180.4	1176.8	1170.8	1165.8	1156.7	1144.8	1133.1	1116.7	1101.7	1090.6
10°	1241.5	1243.9	1237.4	1228.7	1221.5	1211.0	1193.7	1175.9	1154.5	1133.7	1117.1
12.5°	1289.2	1294.8	1286.6	1285.5	1273.1	1258.7	1238.0	1229.0	1198.8	1169.9	1152.1
15°	1347.2	1346.8	1347.6	1340.4	1331.3	1329.1	1307.2	1283.4	1240.8	1223.9	1194.4
17.5°	1330.4	1336.2	1338.8	1338.7	1338.5	1337.1	1330.0	1315.0	1293.6	1266.2	1232.2
20°	1290.6	1298.1	1299.3	1308.0	1312.8	1319.3	1321.9	1317.8	1304.5	1281.5	1252.1
22.5°	1229.0	1231.1	1234.7	1248.2	1258.8	1274.9	1283.2	1297.2	1292.1	1280.9	1256.4
25°	1122.4	1118.6	1131.8	1138.6	1163.1	1188.7	1207.2	1227.6	1245.7	1256.7	1249.5
27.5°	994.3	988.7	1008.5	1026.4	1046.3	1074.1	1102.9	1136.9	1165.2	1200.6	1212.7
30°	886.3	889.7	908.6	927.8	958.0	997.1	1029.6	1066.9	1107.3	1146.9	1174.4
32.5°	769.8	782.8	794.8	824.3	850.8	894.5	942.1	988.8	1039.2	1084.1	1126.7
35°	611.0	626.0	642.7	664.2	701.5	744.9	791.2	854.2	922.9	984.3	1034.9
37.5°	514.2	511.9	521.4	536.9	567.1	602.2	655.5	717.8	798.6	870.8	942.1
40°	456.4	454.8	461.6	475.9	499.0	524.6	571.4	626.0	701.1	789.3	874.2
42.5°	416.5	417.4	421.2	431.3	447.1	468.2	503.2	549.8	618.4	701.6	792.7
45°	368.1	370.7	374.9	379.8	388.8	406.2	425.8	459.0	513.3	582.7	672.5
47.5°	333.3	333.4	337.5	341.8	347.2	357.0	373.0	393.8	432.1	488.7	565.8
50°	314.6	311.8	314.9	318.3	324.0	330.7	341.3	360.9	386.6	432.2	496.7
52.5°	291.6	291.6	294.4	295.7	300.7	307.5	317.2	330.7	354.0	389.7	442.7
55°	258.7	260.6	262.2	264.4	268.9	273.8	281.3	290.4	308.5	335.3	374.5
57.5°	227.8	228.4	229.9	234.2	237.1	241.6	248.7	257.0	268.7	288.6	318.1
60°	206.7	206.7	209.6	211.6	215.3	219.8	225.5	233.5	244.0	260.2	284.0
62.5°	187.3	187.0	188.2	191.4	194.2	198.4	204.1	210.9	220.8	235.2	254.7
65°	159.2	158.4	160.7	161.4	164.4	168.5	173.1	180.3	188.2	198.7	216.1
67.5°	132.0	132.9	134.1	135.5	137.2	141.6	144.6	149.7	156.3	165.1	176.9
70°	116.9	116.9	116.9	118.1	120.3	122.6	125.6	129.8	136.1	143.7	154.2
72.5°	100.0	101.2	102.4	101.8	104.6	105.9	109.6	111.9	118.1	122.9	132.2
75°	78.5	78.5	78.5	80.3	81.5	82.6	84.8	87.2	90.2	96.1	101.1
77.5°	58.6	58.4	58.8	59.2	60.4	61.8	62.4	64.5	67.3	70.1	74.2
80°	45.2	46.0	46.4	47.2	47.2	47.9	48.3	50.9	52.8	54.7	57.4
82.5°	35.0	35.1	35.2	35.3	35.6	36.2	37.1	38.0	38.6	40.2	42.2
85°	20.4	20.0	20.0	20.7	20.4	20.4	21.1	21.9	21.9	22.2	23.4
87.5°	13.0	12.9	13.2	12.8	12.7	12.8	12.6	12.1	12.2	12.3	12.2
90°	26.1	25.7	25.1	24.7	24.3	23.6	22.5	21.4	20.4	19.3	17.6
92.5°	26.1	25.8	25.5	25.2	25.0	24.6	24.0	23.5	22.9	22.4	21.5
95°	41.5	41.7	41.9	42.1	42.3	41.9	40.9	39.8	38.7	37.7	36.2
97.5°	55.3	55.1	54.8	54.6	54.3	53.8	52.9	52.1	51.2	50.4	46.9
100°	64.6	64.2	63.8	63.3	62.9	61.9	60.2	58.5	56.8	55.0	51.4
102.5°	69.3	68.7	68.1	67.5	66.9	65.4	63.2	61.0	58.8	56.6	87.1
105°	73.3	72.5	71.6	70.8	69.9	68.3	65.9	63.6	61.2	58.9	117.4
107.5°	75.4	74.6	73.7	72.9	72.0	72.8	75.2	77.6	80.0	82.4	152.6
110°	76.2	75.3	74.5	73.6	72.8	83.1	104.5	125.9	147.4	168.8	230.9



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	77.1	76.3	75.6	74.9	74.2	113.0	191.3	269.4	347.7	426.0	441.2
115°	79.2	94.5	110.0	125.4	140.9	198.2	297.5	396.8	496.0	595.4	590.1
117.5°	323.1	373.9	424.5	475.2	526.0	563.4	587.4	611.4	635.4	659.4	655.8
120°	588.7	617.5	646.5	675.5	704.4	717.6	715.0	712.5	709.9	707.3	703.5
122.5°	734.6	740.1	745.8	751.3	757.0	759.0	757.5	756.0	754.4	752.9	748.6
125°	825.1	824.4	823.7	823.1	822.4	821.4	819.9	818.4	816.9	815.4	811.3
127.5°	882.1	882.0	881.9	881.8	881.6	880.5	878.3	876.2	873.9	871.7	868.7
130°	917.7	917.9	918.1	918.3	918.6	917.5	915.1	912.7	910.4	908.1	905.6
132.5°	952.4	952.6	952.8	953.0	953.3	952.4	950.4	948.4	946.3	944.3	941.9
135°	1002.6	1003.0	1003.4	1003.9	1004.3	1003.4	1001.3	999.2	997.0	994.9	992.9
137.5°	1048.3	1049.0	1049.8	1050.6	1051.3	1050.6	1048.4	1046.3	1044.3	1042.2	1040.0
140°	1076.9	1077.9	1079.0	1080.2	1081.2	1080.8	1078.8	1076.9	1075.0	1073.1	1070.7
142.5°	1104.7	1105.8	1106.8	1107.9	1108.9	1108.6	1106.9	1105.1	1103.4	1101.6	1098.9
145°	1143.5	1144.6	1145.6	1146.7	1147.8	1147.5	1146.1	1144.6	1143.1	1141.6	1137.9
147.5°	1177.6	1178.5	1179.4	1180.3	1181.2	1181.1	1180.0	1178.9	1177.8	1176.7	1173.1
150°	1198.5	1199.5	1200.6	1201.7	1202.7	1202.6	1201.3	1200.1	1198.8	1197.5	1194.1
152.5°	1216.3	1217.7	1219.1	1220.5	1221.9	1221.9	1220.6	1219.4	1218.1	1216.8	1213.6
155°	1240.9	1242.6	1244.4	1246.1	1247.8	1248.0	1246.7	1245.5	1244.2	1242.8	1240.3
157.5°	1263.5	1265.2	1266.9	1268.5	1270.2	1270.3	1268.9	1267.4	1266.0	1264.5	1262.6
160°	1276.7	1278.2	1279.6	1281.1	1282.6	1282.7	1281.4	1280.2	1278.9	1277.6	1276.4
162.5°	1287.5	1289.3	1291.1	1292.9	1294.8	1295.1	1293.5	1292.1	1290.6	1289.2	1288.1
165°	1303.6	1305.1	1306.7	1308.2	1309.7	1309.7	1308.2	1306.7	1305.1	1303.6	1303.0
167.5°	1313.9	1315.9	1317.8	1319.7	1321.6	1321.8	1320.3	1318.8	1317.3	1315.9	1315.2
170°	1320.1	1322.0	1323.9	1325.9	1327.8	1328.0	1326.5	1325.0	1323.5	1322.0	1321.6
172.5°	1324.7	1326.7	1328.6	1330.5	1332.4	1332.6	1331.1	1329.6	1328.2	1326.7	1326.2
175°	1328.8	1330.9	1333.0	1335.1	1337.4	1337.7	1336.2	1334.6	1333.1	1331.6	1331.2
177.5°	1331.3	1332.8	1334.3	1335.8	1337.5	1337.6	1336.4	1335.2	1334.0	1332.8	1332.6
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1006.9	1004.5	1003.0	997.6	992.8	988.0	986.4	987.0	980.4	974.1	971.4
5°	1046.2	1038.6	1031.5	1021.3	1009.3	996.0	989.3	984.0	970.8	956.4	948.2
7.5°	1081.4	1070.6	1056.7	1037.6	1020.1	999.3	986.0	974.4	955.0	934.8	922.5
10°	1102.8	1088.0	1070.4	1046.9	1025.4	1000.2	982.5	964.7	942.1	918.0	902.9
12.5°	1121.2	1101.4	1083.9	1053.9	1028.4	996.8	975.8	950.9	927.1	898.4	883.5
15°	1165.0	1128.4	1095.2	1061.3	1030.0	985.8	962.5	928.9	897.6	862.1	845.2
17.5°	1198.8	1157.7	1105.5	1062.4	1025.8	976.9	942.6	902.4	865.4	824.9	801.8
20°	1218.2	1171.0	1114.8	1063.6	1019.8	964.0	926.7	885.6	842.1	796.5	771.6
22.5°	1229.6	1180.1	1124.5	1059.0	1007.7	953.4	906.5	861.4	817.4	768.2	742.0
25°	1233.2	1188.0	1129.1	1055.2	992.6	931.2	874.5	830.8	777.7	731.6	693.6
27.5°	1215.3	1182.9	1126.3	1048.1	975.2	903.3	840.3	790.7	734.6	684.7	646.3
30°	1193.3	1174.4	1119.3	1040.9	961.3	884.0	814.7	758.4	702.7	652.1	612.9
32.5°	1159.2	1155.1	1106.7	1030.7	946.5	859.6	787.8	730.9	669.1	619.5	582.1
35°	1092.2	1110.3	1079.7	1007.7	918.7	824.9	747.1	682.3	618.1	570.6	535.5
37.5°	1002.5	1047.4	1039.5	974.1	881.1	787.0	701.1	633.4	572.3	524.3	489.9
40°	940.6	997.9	1006.2	948.5	854.6	757.7	666.8	599.3	539.7	495.9	461.2
42.5°	874.2	941.2	964.0	917.8	825.7	726.9	636.0	566.1	507.2	464.5	433.8
45°	763.0	851.6	892.7	866.3	777.3	676.2	582.7	511.8	458.3	418.3	394.5
47.5°	658.9	755.8	811.1	801.7	723.5	623.4	531.0	462.9	410.8	378.9	357.6
50°	585.3	684.9	751.6	754.7	684.9	585.7	492.9	428.8	380.9	351.1	333.8
52.5°	521.4	616.4	689.2	705.2	641.8	546.4	458.8	395.1	352.8	325.5	309.9
55°	437.9	518.2	599.0	628.3	577.4	486.9	405.8	349.6	310.0	291.1	277.6
57.5°	364.1	431.0	505.5	538.1	506.6	429.2	353.1	304.4	272.3	255.7	245.3
60°	325.1	377.9	444.2	483.1	456.0	387.0	320.5	274.2	247.8	233.1	223.3
62.5°	288.9	335.7	391.7	427.3	412.5	347.4	288.0	247.0	224.3	210.5	203.4
65°	238.3	275.3	318.7	351.5	341.7	292.3	243.7	208.5	190.5	179.6	173.9
67.5°	196.2	223.0	253.1	281.8	273.9	238.8	199.9	172.5	159.0	149.6	146.2
70°	169.8	190.1	216.8	239.8	233.5	204.8	173.9	150.5	138.8	130.9	127.4
72.5°	144.4	161.1	181.6	200.4	196.0	172.2	146.4	128.8	119.8	112.5	109.7
75°	109.0	121.8	134.3	146.7	145.6	127.1	112.0	98.5	91.3	85.6	84.5
77.5°	80.5	87.7	96.1	103.5	101.5	90.9	79.1	71.3	66.0	62.2	61.6
80°	61.5	65.6	71.7	77.0	74.3	69.8	60.4	54.7	50.9	47.2	45.6
82.5°	44.5	48.8	52.3	55.2	53.2	49.0	43.1	39.3	37.1	34.4	33.8
85°	23.4	25.7	27.2	27.9	27.2	24.5	21.9	20.4	18.5	17.4	17.0
87.5°	12.2	11.9	11.5	11.7	10.4	9.9	8.2	6.9	7.0	7.2	7.1
90°	15.9	14.1	12.4	10.4	8.1	5.7	3.3	1.0	3.3	5.7	8.1
92.5°	20.7	19.8	19.0	18.7	18.9	19.1	19.3	19.5	19.3	19.1	18.9
95°	34.6	33.1	31.6	34.4	41.5	48.6	55.6	62.7	55.6	48.6	41.5
97.5°	43.4	40.0	36.5	44.7	64.6	84.6	104.5	124.5	104.5	84.6	64.6
100°	47.7	44.0	40.4	53.3	82.7	112.0	141.4	170.8	141.4	112.0	82.7
102.5°	117.5	148.0	178.5	196.8	203.1	209.3	215.5	221.8	215.5	209.3	203.1
105°	175.9	234.5	293.1	319.1	312.7	306.2	299.8	293.4	299.8	306.2	312.7
107.5°	222.8	293.1	363.2	395.8	390.5	385.4	380.2	375.0	380.2	385.4	390.5
110°	292.9	354.8	416.8	445.5	441.0	436.5	432.0	427.5	432.0	436.5	441.0



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	456.6	471.9	487.2	492.8	488.9	484.8	480.9	476.9	480.9	484.8	488.9
115°	584.6	579.3	573.9	569.5	565.8	562.2	558.5	554.8	558.5	562.2	565.8
117.5°	652.1	648.4	644.7	640.9	636.7	632.7	628.6	624.5	628.6	632.7	636.7
120°	699.6	695.7	691.9	688.3	685.1	681.9	678.7	675.5	678.7	681.9	685.1
122.5°	744.5	740.2	736.1	732.3	728.8	725.5	722.1	718.7	722.1	725.5	728.8
125°	807.3	803.1	799.1	795.7	792.8	790.1	787.3	784.5	787.3	790.1	792.8
127.5°	865.7	862.6	859.6	856.5	853.4	850.3	847.3	844.1	847.3	850.3	853.4
130°	903.3	900.9	898.6	895.6	892.2	888.9	885.4	882.0	885.4	888.9	892.2
132.5°	939.6	937.3	934.8	932.2	929.3	926.5	923.5	920.6	923.5	926.5	929.3
135°	991.0	989.1	987.1	984.5	981.1	977.7	974.2	970.8	974.2	977.7	981.1
137.5°	1037.7	1035.6	1033.4	1031.1	1028.7	1026.3	1023.9	1021.5	1023.9	1026.3	1028.7
140°	1068.3	1065.9	1063.6	1061.6	1059.9	1058.1	1056.4	1054.7	1056.4	1058.1	1059.9
142.5°	1096.2	1093.5	1090.8	1088.6	1087.1	1085.6	1084.0	1082.5	1084.0	1085.6	1087.1
145°	1134.3	1130.6	1127.0	1125.3	1125.5	1125.7	1125.9	1126.1	1125.9	1125.7	1125.5
147.5°	1169.4	1165.9	1162.3	1160.8	1161.6	1162.5	1163.3	1164.2	1163.3	1162.5	1161.6
150°	1190.6	1187.2	1183.8	1182.9	1184.4	1185.8	1187.3	1188.8	1187.3	1185.8	1184.4
152.5°	1210.3	1207.0	1203.8	1203.0	1204.7	1206.3	1208.0	1209.7	1208.0	1206.3	1204.7
155°	1237.7	1235.2	1232.5	1232.2	1234.2	1236.1	1238.0	1240.0	1238.0	1236.1	1234.2
157.5°	1260.9	1259.1	1257.3	1257.2	1258.8	1260.4	1262.1	1263.7	1262.1	1260.4	1258.8
160°	1275.1	1273.7	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6	1276.4	1275.1	1273.7
162.5°	1287.0	1285.9	1284.8	1284.9	1286.1	1287.4	1288.7	1290.0	1288.7	1287.4	1286.1
165°	1302.3	1301.7	1301.1	1301.4	1302.7	1303.9	1305.3	1306.6	1305.3	1303.9	1302.7
167.5°	1314.6	1314.0	1313.4	1313.7	1315.0	1316.4	1317.6	1318.9	1317.6	1316.4	1315.0
170°	1321.1	1320.7	1320.3	1320.7	1322.0	1323.3	1324.5	1325.9	1324.5	1323.3	1322.0
172.5°	1325.8	1325.3	1324.9	1325.3	1326.7	1327.9	1329.2	1330.5	1329.2	1327.9	1326.7
175°	1330.8	1330.4	1329.9	1330.5	1332.0	1333.4	1334.9	1336.5	1334.9	1333.4	1332.0
177.5°	1332.4	1332.3	1332.1	1332.6	1333.8	1335.0	1336.3	1337.5	1336.3	1335.0	1333.8
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	968.4	966.5	960.2	956.8	951.5	946.3	943.0	944.5	945.7	945.1	944.2
5°	940.6	933.4	922.5	913.0	906.3	893.8	888.6	886.0	883.6	881.0	878.4
7.5°	907.6	896.3	880.6	867.2	854.4	839.0	830.2	824.9	819.4	813.4	808.2
10°	884.0	868.2	851.6	832.7	817.7	803.7	791.2	782.9	775.4	768.2	763.0
12.5°	859.3	841.0	820.5	794.8	778.1	758.1	756.3	741.6	729.8	725.4	719.2
15°	819.9	794.3	768.2	737.7	724.5	706.4	695.1	683.8	673.6	666.4	664.5
17.5°	775.2	741.9	716.1	694.2	672.6	654.0	643.6	634.5	626.1	616.5	615.3
20°	741.0	712.5	684.2	664.9	642.7	623.8	611.0	601.9	594.7	589.1	584.2
22.5°	708.8	677.4	651.6	630.5	608.5	593.3	583.2	574.5	568.6	562.3	557.6
25°	657.0	632.5	604.2	580.5	562.3	552.5	544.2	536.6	532.9	528.8	523.5
27.5°	611.7	584.4	558.0	539.6	523.6	514.9	509.1	503.9	500.4	498.0	494.9
30°	579.7	552.1	531.4	513.3	500.1	491.4	487.7	484.6	480.5	479.0	477.5
32.5°	548.9	524.1	506.3	490.7	478.1	472.4	469.0	466.3	463.0	461.5	458.5
35°	505.3	484.6	467.3	458.6	448.4	443.5	440.9	437.1	434.1	432.6	432.2
37.5°	464.4	446.4	434.9	423.8	419.5	416.5	412.9	410.3	409.4	409.2	408.8
40°	437.9	423.1	412.9	403.9	402.0	397.5	394.5	392.2	392.2	392.6	392.2
42.5°	413.7	400.5	391.5	383.7	381.5	378.8	375.8	375.7	376.3	377.5	376.3
45°	377.2	367.7	361.3	357.5	353.4	350.7	350.3	351.5	351.8	352.2	353.4
47.5°	343.5	337.2	331.4	327.3	325.5	325.0	324.6	326.5	328.3	329.0	330.7
50°	323.6	316.4	311.5	308.9	307.4	306.6	307.4	309.6	311.1	313.1	314.2
52.5°	301.2	296.2	292.9	290.7	290.1	290.6	290.7	293.4	295.8	296.4	297.0
55°	270.4	266.6	265.9	262.5	264.0	263.6	265.5	267.0	269.2	271.6	272.0
57.5°	239.6	236.6	234.6	234.9	235.3	237.0	238.5	241.3	243.7	246.0	246.3
60°	219.1	217.6	216.5	216.5	217.2	219.5	221.4	224.0	225.5	227.0	228.1
62.5°	200.5	198.9	197.7	198.3	200.4	201.7	203.9	205.3	206.8	208.3	208.8
65°	170.9	170.1	171.3	172.0	172.4	174.2	176.9	178.0	179.6	180.3	182.9
67.5°	143.6	143.8	143.6	144.7	146.8	147.3	149.8	152.5	152.8	154.2	155.9
70°	125.2	125.9	126.7	127.4	129.4	130.1	132.0	133.1	134.6	135.7	136.9
72.5°	108.4	108.5	109.3	109.1	110.7	112.3	113.9	115.0	116.5	118.0	119.1
75°	83.3	83.3	84.1	84.5	86.3	88.3	87.9	88.7	90.2	91.7	92.4
77.5°	60.9	60.1	60.9	61.2	61.8	63.4	63.7	64.8	66.6	66.0	66.9
80°	46.4	45.2	46.4	46.8	46.8	48.7	48.7	49.4	50.5	49.4	50.5
82.5°	33.1	32.6	33.4	33.5	34.1	34.1	34.7	34.9	36.1	35.5	36.1
85°	16.6	16.3	16.6	16.3	16.6	17.0	17.0	16.6	16.6	17.4	16.3
87.5°	7.2	7.3	7.4	7.7	7.8	7.8	7.7	7.9	8.1	7.8	7.9
90°	10.4	12.4	14.1	15.9	17.6	19.3	20.4	21.4	22.5	23.6	24.3
92.5°	18.7	19.0	19.8	20.7	21.5	22.4	22.9	23.5	24.0	24.6	25.0
95°	34.4	31.6	33.1	34.6	36.2	37.7	38.7	39.8	40.9	41.9	42.3
97.5°	44.7	36.5	40.0	43.4	46.9	50.4	51.2	52.1	52.9	53.8	54.3
100°	53.3	40.4	44.0	47.7	51.4	55.0	56.8	58.5	60.2	61.9	62.9
102.5°	196.8	178.5	148.0	117.5	87.1	56.6	58.8	61.0	63.2	65.4	66.9
105°	319.1	293.1	234.5	175.9	117.4	58.9	61.2	63.6	65.9	68.3	69.9
107.5°	395.8	363.2	293.1	222.8	152.6	82.4	80.0	77.6	75.2	72.8	72.0
110°	445.5	416.8	354.8	292.9	230.9	168.8	147.4	125.9	104.5	83.1	72.8



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	492.8	487.2	471.9	456.6	441.2	426.0	347.7	269.4	191.3	113.0	74.2
115°	569.5	573.9	579.3	584.6	590.1	595.4	496.0	396.8	297.5	198.2	140.9
117.5°	640.9	644.7	648.4	652.1	655.8	659.4	635.4	611.4	587.4	563.4	526.0
120°	688.3	691.9	695.7	699.6	703.5	707.3	709.9	712.5	715.0	717.6	704.4
122.5°	732.3	736.1	740.2	744.5	748.6	752.9	754.4	756.0	757.5	759.0	757.0
125°	795.7	799.1	803.1	807.3	811.3	815.4	816.9	818.4	819.9	821.4	822.4
127.5°	856.5	859.6	862.6	865.7	868.7	871.7	873.9	876.2	878.3	880.5	881.6
130°	895.6	898.6	900.9	903.3	905.6	908.1	910.4	912.7	915.1	917.5	918.6
132.5°	932.2	934.8	937.3	939.6	941.9	944.3	946.3	948.4	950.4	952.4	953.3
135°	984.5	987.1	989.1	991.0	992.9	994.9	997.0	999.2	1001.3	1003.4	1004.3
137.5°	1031.1	1033.4	1035.6	1037.7	1040.0	1042.2	1044.3	1046.3	1048.4	1050.6	1051.3
140°	1061.6	1063.6	1065.9	1068.3	1070.7	1073.1	1075.0	1076.9	1078.8	1080.8	1081.2
142.5°	1088.6	1090.8	1093.5	1096.2	1098.9	1101.6	1103.4	1105.1	1106.9	1108.6	1108.9
145°	1125.3	1127.0	1130.6	1134.3	1137.9	1141.6	1143.1	1144.6	1146.1	1147.5	1147.8
147.5°	1160.8	1162.3	1165.9	1169.4	1173.1	1176.7	1177.8	1178.9	1180.0	1181.1	1181.2
150°	1182.9	1183.8	1187.2	1190.6	1194.1	1197.5	1198.8	1200.1	1201.3	1202.6	1202.7
152.5°	1203.0	1203.8	1207.0	1210.3	1213.6	1216.8	1218.1	1219.4	1220.6	1221.9	1221.9
155°	1232.2	1232.5	1235.2	1237.7	1240.3	1242.8	1244.2	1245.5	1246.7	1248.0	1247.8
157.5°	1257.2	1257.3	1259.1	1260.9	1262.6	1264.5	1266.0	1267.4	1268.9	1270.3	1270.2
160°	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6	1278.9	1280.2	1281.4	1282.7	1282.6
162.5°	1284.9	1284.8	1285.9	1287.0	1288.1	1289.2	1290.6	1292.1	1293.5	1295.1	1294.8
165°	1301.4	1301.1	1301.7	1302.3	1303.0	1303.6	1305.1	1306.7	1308.2	1309.7	1309.7
167.5°	1313.7	1313.4	1314.0	1314.6	1315.2	1315.9	1317.3	1318.8	1320.3	1321.8	1321.6
170°	1320.7	1320.3	1320.7	1321.1	1321.6	1322.0	1323.5	1325.0	1326.5	1328.0	1327.8
172.5°	1325.3	1324.9	1325.3	1325.8	1326.2	1326.7	1328.2	1329.6	1331.1	1332.6	1332.4
175°	1330.5	1329.9	1330.4	1330.8	1331.2	1331.6	1333.1	1334.6	1336.2	1337.7	1337.4
177.5°	1332.6	1332.1	1332.3	1332.4	1332.6	1332.8	1334.0	1335.2	1336.4	1337.6	1337.5
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	941.2	940.6	940.6	937.9	940.6	940.6	941.2	944.2	945.1	945.7	944.5
5°	873.1	871.9	870.1	871.9	870.1	871.9	873.1	878.4	881.0	883.6	886.0
7.5°	805.8	801.2	800.5	796.1	800.5	801.2	805.8	808.2	813.4	819.4	824.9
10°	756.6	753.6	753.2	746.0	753.2	753.6	756.6	763.0	768.2	775.4	782.9
12.5°	719.1	711.9	713.4	709.2	713.4	711.9	719.1	719.2	725.4	729.8	741.6
15°	654.3	654.3	652.9	646.4	652.9	654.3	654.3	664.5	666.4	673.6	683.8
17.5°	607.8	607.0	603.4	605.2	603.4	607.0	607.8	615.3	616.5	626.1	634.5
20°	580.1	577.7	573.3	573.3	573.3	577.7	580.1	584.2	589.1	594.7	601.9
22.5°	553.8	553.6	548.9	550.4	548.9	553.6	553.8	557.6	562.3	568.6	574.5
25°	523.1	520.1	517.9	519.0	517.9	520.1	523.1	523.5	528.8	532.9	536.6
27.5°	494.0	492.3	492.2	489.1	492.2	492.3	494.0	494.9	498.0	500.4	503.9
30°	477.1	473.3	474.0	472.2	474.0	473.3	477.1	477.5	479.0	480.5	484.6
32.5°	457.8	456.5	455.7	454.0	455.7	456.5	457.8	458.5	461.5	463.0	466.3
35°	431.4	431.8	429.9	430.7	429.9	431.8	431.4	432.2	432.6	434.1	437.1
37.5°	408.5	409.7	408.8	409.0	408.8	409.7	408.5	408.8	409.2	409.4	410.3
40°	393.3	393.3	393.3	394.5	393.3	393.3	393.3	392.2	392.6	392.2	392.2
42.5°	378.9	378.3	377.7	377.6	377.7	378.3	378.9	376.3	377.5	376.3	375.7
45°	354.2	355.3	355.7	353.8	355.7	355.3	354.2	353.4	352.2	351.8	351.5
47.5°	331.7	331.8	331.7	333.4	331.7	331.8	331.7	330.7	329.0	328.3	326.5
50°	316.1	315.3	316.1	315.3	316.1	315.3	316.1	314.2	313.1	311.1	309.6
52.5°	299.4	299.6	299.1	299.0	299.1	299.6	299.4	297.0	296.4	295.8	293.4
55°	273.5	274.2	273.8	273.8	273.8	274.2	273.5	272.0	271.6	269.2	267.0
57.5°	246.5	247.2	247.7	246.0	247.7	247.2	246.5	246.3	246.0	243.7	241.3
60°	227.8	229.6	229.3	228.5	229.3	229.6	227.8	228.1	227.0	225.5	224.0
62.5°	210.6	211.3	211.2	211.1	211.2	211.3	210.6	208.8	208.3	206.8	205.3
65°	184.0	184.8	183.7	184.8	183.7	184.8	184.0	182.9	180.3	179.6	178.0
67.5°	155.4	155.7	156.5	157.0	156.5	155.7	155.4	155.9	154.2	152.8	152.5
70°	137.6	137.2	138.5	139.6	138.5	137.2	137.6	136.9	135.7	134.6	133.1
72.5°	119.0	119.8	119.4	120.3	119.4	119.8	119.0	119.1	118.0	116.5	115.0
75°	91.7	92.8	92.4	93.5	92.4	92.8	91.7	92.4	91.7	90.2	88.7
77.5°	66.2	66.3	66.2	66.9	66.2	66.3	66.2	66.9	66.0	66.6	64.8
80°	50.5	49.8	49.0	50.5	49.0	49.8	50.5	50.5	49.4	50.5	49.4
82.5°	35.1	35.6	34.8	34.8	34.8	35.6	35.1	36.1	35.5	36.1	34.9
85°	16.3	15.9	15.0	15.0	15.0	15.9	16.3	16.3	17.4	16.6	16.6
87.5°	8.0	7.8	7.9	7.7	7.9	7.8	8.0	7.9	7.8	8.1	7.9
90°	24.7	25.1	25.7	26.1	25.7	25.1	24.7	24.3	23.6	22.5	21.4
92.5°	25.2	25.5	25.8	26.1	25.8	25.5	25.2	25.0	24.6	24.0	23.5
95°	42.1	41.9	41.7	41.5	41.7	41.9	42.1	42.3	41.9	40.9	39.8
97.5°	54.6	54.8	55.1	55.3	55.1	54.8	54.6	54.3	53.8	52.9	52.1
100°	63.3	63.8	64.2	64.6	64.2	63.8	63.3	62.9	61.9	60.2	58.5
102.5°	67.5	68.1	68.7	69.3	68.7	68.1	67.5	66.9	65.4	63.2	61.0
105°	70.8	71.6	72.5	73.3	72.5	71.6	70.8	69.9	68.3	65.9	63.6
107.5°	72.9	73.7	74.6	75.4	74.6	73.7	72.9	72.0	72.8	75.2	77.6
110°	73.6	74.5	75.3	76.2	75.3	74.5	73.6	72.8	83.1	104.5	125.9



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	74.9	75.6	76.3	77.1	76.3	75.6	74.9	74.2	113.0	191.3	269.4
115°	125.4	110.0	94.5	79.2	94.5	110.0	125.4	140.9	198.2	297.5	396.8
117.5°	475.2	424.5	373.9	323.1	373.9	424.5	475.2	526.0	563.4	587.4	611.4
120°	675.5	646.5	617.5	588.7	617.5	646.5	675.5	704.4	717.6	715.0	712.5
122.5°	751.3	745.8	740.1	734.6	740.1	745.8	751.3	757.0	759.0	757.5	756.0
125°	823.1	823.7	824.4	825.1	824.4	823.7	823.1	822.4	821.4	819.9	818.4
127.5°	881.8	881.9	882.0	882.1	882.0	881.9	881.8	881.6	880.5	878.3	876.2
130°	918.3	918.1	917.9	917.7	917.9	918.1	918.3	918.6	917.5	915.1	912.7
132.5°	953.0	952.8	952.6	952.4	952.6	952.8	953.0	953.3	952.4	950.4	948.4
135°	1003.9	1003.4	1003.0	1002.6	1003.0	1003.4	1003.9	1004.3	1003.4	1001.3	999.2
137.5°	1050.6	1049.8	1049.0	1048.3	1049.0	1049.8	1050.6	1051.3	1050.6	1048.4	1046.3
140°	1080.2	1079.0	1077.9	1076.9	1077.9	1079.0	1080.2	1081.2	1080.8	1078.8	1076.9
142.5°	1107.9	1106.8	1105.8	1104.7	1105.8	1106.8	1107.9	1108.9	1108.6	1106.9	1105.1
145°	1146.7	1145.6	1144.6	1143.5	1144.6	1145.6	1146.7	1147.8	1147.5	1146.1	1144.6
147.5°	1180.3	1179.4	1178.5	1177.6	1178.5	1179.4	1180.3	1181.2	1181.1	1180.0	1178.9
150°	1201.7	1200.6	1199.5	1198.5	1199.5	1200.6	1201.7	1202.7	1202.6	1201.3	1200.1
152.5°	1220.5	1219.1	1217.7	1216.3	1217.7	1219.1	1220.5	1221.9	1221.9	1220.6	1219.4
155°	1246.1	1244.4	1242.6	1240.9	1242.6	1244.4	1246.1	1247.8	1248.0	1246.7	1245.5
157.5°	1268.5	1266.9	1265.2	1263.5	1265.2	1266.9	1268.5	1270.2	1270.3	1268.9	1267.4
160°	1281.1	1279.6	1278.2	1276.7	1278.2	1279.6	1281.1	1282.6	1282.7	1281.4	1280.2
162.5°	1292.9	1291.1	1289.3	1287.5	1289.3	1291.1	1292.9	1294.8	1295.1	1293.5	1292.1
165°	1308.2	1306.7	1305.1	1303.6	1305.1	1306.7	1308.2	1309.7	1309.7	1308.2	1306.7
167.5°	1319.7	1317.8	1315.9	1313.9	1315.9	1317.8	1319.7	1321.6	1321.8	1320.3	1318.8
170°	1325.9	1323.9	1322.0	1320.1	1322.0	1323.9	1325.9	1327.8	1328.0	1326.5	1325.0
172.5°	1330.5	1328.6	1326.7	1324.7	1326.7	1328.6	1330.5	1332.4	1332.6	1331.1	1329.6
175°	1335.1	1333.0	1330.9	1328.8	1330.9	1333.0	1335.1	1337.4	1337.7	1336.2	1334.6
177.5°	1335.8	1334.3	1332.8	1331.3	1332.8	1334.3	1335.8	1337.5	1337.6	1336.4	1335.2
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	943.0	946.3	951.5	956.8	960.2	966.5	968.4	971.4	974.1	980.4	987.0
5°	888.6	893.8	906.3	913.0	922.5	933.4	940.6	948.2	956.4	970.8	984.0
7.5°	830.2	839.0	854.4	867.2	880.6	896.3	907.6	922.5	934.8	955.0	974.4
10°	791.2	803.7	817.7	832.7	851.6	868.2	884.0	902.9	918.0	942.1	964.7
12.5°	756.3	758.1	778.1	794.8	820.5	841.0	859.3	883.5	898.4	927.1	950.9
15°	695.1	706.4	724.5	737.7	768.2	794.3	819.9	845.2	862.1	897.6	928.9
17.5°	643.6	654.0	672.6	694.2	716.1	741.9	775.2	801.8	824.9	865.4	902.4
20°	611.0	623.8	642.7	664.9	684.2	712.5	741.0	771.6	796.5	842.1	885.6
22.5°	583.2	593.3	608.5	630.5	651.6	677.4	708.8	742.0	768.2	817.4	861.4
25°	544.2	552.5	562.3	580.5	604.2	632.5	657.0	693.6	731.6	777.7	830.8
27.5°	509.1	514.9	523.6	539.6	558.0	584.4	611.7	646.3	684.7	734.6	790.7
30°	487.7	491.4	500.1	513.3	531.4	552.1	579.7	612.9	652.1	702.7	758.4
32.5°	469.0	472.4	478.1	490.7	506.3	524.1	548.9	582.1	619.5	669.1	730.9
35°	440.9	443.5	448.4	458.6	467.3	484.6	505.3	535.5	570.6	618.1	682.3
37.5°	412.9	416.5	419.5	423.8	434.9	446.4	464.4	489.9	524.3	572.3	633.4
40°	394.5	397.5	402.0	403.9	412.9	423.1	437.9	461.2	495.9	539.7	599.3
42.5°	375.8	378.8	381.5	383.7	391.5	400.5	413.7	433.8	464.5	507.2	566.1
45°	350.3	350.7	353.4	357.5	361.3	367.7	377.2	394.5	418.3	458.3	511.8
47.5°	324.6	325.0	325.5	327.3	331.4	337.2	343.5	357.6	378.9	410.8	462.9
50°	307.4	306.6	307.4	308.9	311.5	316.4	323.6	333.8	351.1	380.9	428.8
52.5°	290.7	290.6	290.1	290.7	292.9	296.2	301.2	309.9	325.5	352.8	395.1
55°	265.5	263.6	264.0	262.5	265.9	266.6	270.4	277.6	291.1	310.0	349.6
57.5°	238.5	237.0	235.3	234.9	234.6	236.6	239.6	245.3	255.7	272.3	304.4
60°	221.4	219.5	217.2	216.5	216.5	217.6	219.1	223.3	233.1	247.8	274.2
62.5°	203.9	201.7	200.4	198.3	197.7	198.9	200.5	203.4	210.5	224.3	247.0
65°	176.9	174.2	172.4	172.0	171.3	170.1	170.9	173.9	179.6	190.5	208.5
67.5°	149.8	147.3	146.8	144.7	143.6	143.8	143.6	146.2	149.6	159.0	172.5
70°	132.0	130.1	129.4	127.4	126.7	125.9	125.2	127.4	130.9	138.8	150.5
72.5°	113.9	112.3	110.7	109.1	109.3	108.5	108.4	109.7	112.5	119.8	128.8
75°	87.9	88.3	86.3	84.5	84.1	83.3	83.3	84.5	85.6	91.3	98.5
77.5°	63.7	63.4	61.8	61.2	60.9	60.1	60.9	61.6	62.2	66.0	71.3
80°	48.7	48.7	46.8	46.8	46.4	45.2	46.4	45.6	47.2	50.9	54.7
82.5°	34.7	34.1	34.1	33.5	33.4	32.6	33.1	33.8	34.4	37.1	39.3
85°	17.0	17.0	16.6	16.3	16.6	16.3	16.6	17.0	17.4	18.5	20.4
87.5°	7.7	7.8	7.8	7.7	7.4	7.3	7.2	7.1	7.2	7.0	6.9
90°	20.4	19.3	17.6	15.9	14.1	12.4	10.4	8.1	5.7	3.3	1.0
92.5°	22.9	22.4	21.5	20.7	19.8	19.0	18.7	18.9	19.1	19.3	19.5
95°	38.7	37.7	36.2	34.6	33.1	31.6	34.4	41.5	48.6	55.6	62.7
97.5°	51.2	50.4	46.9	43.4	40.0	36.5	44.7	64.6	84.6	104.5	124.5
100°	56.8	55.0	51.4	47.7	44.0	40.4	53.3	82.7	112.0	141.4	170.8
102.5°	58.8	56.6	87.1	117.5	148.0	178.5	196.8	203.1	209.3	215.5	221.8
105°	61.2	58.9	117.4	175.9	234.5	293.1	319.1	312.7	306.2	299.8	293.4
107.5°	80.0	82.4	152.6	222.8	293.1	363.2	395.8	390.5	385.4	380.2	375.0
110°	147.4	168.8	230.9	292.9	354.8	416.8	445.5	441.0	436.5	432.0	427.5



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	347.7	426.0	441.2	456.6	471.9	487.2	492.8	488.9	484.8	480.9	476.9
115°	496.0	595.4	590.1	584.6	579.3	573.9	569.5	565.8	562.2	558.5	554.8
117.5°	635.4	659.4	655.8	652.1	648.4	644.7	640.9	636.7	632.7	628.6	624.5
120°	709.9	707.3	703.5	699.6	695.7	691.9	688.3	685.1	681.9	678.7	675.5
122.5°	754.4	752.9	748.6	744.5	740.2	736.1	732.3	728.8	725.5	722.1	718.7
125°	816.9	815.4	811.3	807.3	803.1	799.1	795.7	792.8	790.1	787.3	784.5
127.5°	873.9	871.7	868.7	865.7	862.6	859.6	856.5	853.4	850.3	847.3	844.1
130°	910.4	908.1	905.6	903.3	900.9	898.6	895.6	892.2	888.9	885.4	882.0
132.5°	946.3	944.3	941.9	939.6	937.3	934.8	932.2	929.3	926.5	923.5	920.6
135°	997.0	994.9	992.9	991.0	989.1	987.1	984.5	981.1	977.7	974.2	970.8
137.5°	1044.3	1042.2	1040.0	1037.7	1035.6	1033.4	1031.1	1028.7	1026.3	1023.9	1021.5
140°	1075.0	1073.1	1070.7	1068.3	1065.9	1063.6	1061.6	1059.9	1058.1	1056.4	1054.7
142.5°	1103.4	1101.6	1098.9	1096.2	1093.5	1090.8	1088.6	1087.1	1085.6	1084.0	1082.5
145°	1143.1	1141.6	1137.9	1134.3	1130.6	1127.0	1125.3	1125.5	1125.7	1125.9	1126.1
147.5°	1177.8	1176.7	1173.1	1169.4	1165.9	1162.3	1160.8	1161.6	1162.5	1163.3	1164.2
150°	1198.8	1197.5	1194.1	1190.6	1187.2	1183.8	1182.9	1184.4	1185.8	1187.3	1188.8
152.5°	1218.1	1216.8	1213.6	1210.3	1207.0	1203.8	1203.0	1204.7	1206.3	1208.0	1209.7
155°	1244.2	1242.8	1240.3	1237.7	1235.2	1232.5	1232.2	1234.2	1236.1	1238.0	1240.0
157.5°	1266.0	1264.5	1262.6	1260.9	1259.1	1257.3	1257.2	1258.8	1260.4	1262.1	1263.7
160°	1278.9	1277.6	1276.4	1275.1	1273.7	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6
162.5°	1290.6	1289.2	1288.1	1287.0	1285.9	1284.8	1284.9	1286.1	1287.4	1288.7	1290.0
165°	1305.1	1303.6	1303.0	1302.3	1301.7	1301.1	1301.4	1302.7	1303.9	1305.3	1306.6
167.5°	1317.3	1315.9	1315.2	1314.6	1314.0	1313.4	1313.7	1315.0	1316.4	1317.6	1318.9
170°	1323.5	1322.0	1321.6	1321.1	1320.7	1320.3	1320.7	1322.0	1323.3	1324.5	1325.9
172.5°	1328.2	1326.7	1326.2	1325.8	1325.3	1324.9	1325.3	1326.7	1327.9	1329.2	1330.5
175°	1333.1	1331.6	1331.2	1330.8	1330.4	1329.9	1330.5	1332.0	1333.4	1334.9	1336.5
177.5°	1334.0	1332.8	1332.6	1332.4	1332.3	1332.1	1332.6	1333.8	1335.0	1336.3	1337.5
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	986.4	988.0	992.8	997.6	1003.0	1004.5	1006.9	1004.8	1004.2	1010.0	1014.2
5°	989.3	996.0	1009.3	1021.3	1031.5	1038.6	1046.2	1049.2	1054.9	1062.8	1072.6
7.5°	986.0	999.3	1020.1	1037.6	1056.7	1070.6	1081.4	1090.6	1101.7	1116.7	1133.1
10°	982.5	1000.2	1025.4	1046.9	1070.4	1088.0	1102.8	1117.1	1133.7	1154.5	1175.9
12.5°	975.8	996.8	1028.4	1053.9	1083.9	1101.4	1121.2	1152.1	1169.9	1198.8	1229.0
15°	962.5	985.8	1030.0	1061.3	1095.2	1128.4	1165.0	1194.4	1223.9	1240.8	1283.4
17.5°	942.6	976.9	1025.8	1062.4	1105.5	1157.7	1198.8	1232.2	1266.2	1293.6	1315.0
20°	926.7	964.0	1019.8	1063.6	1114.8	1171.0	1218.2	1252.1	1281.5	1304.5	1317.8
22.5°	906.5	953.4	1007.7	1059.0	1124.5	1180.1	1229.6	1256.4	1280.9	1292.1	1297.2
25°	874.5	931.2	992.6	1055.2	1129.1	1188.0	1233.2	1249.5	1256.7	1245.7	1227.6
27.5°	840.3	903.3	975.2	1048.1	1126.3	1182.9	1215.3	1212.7	1200.6	1165.2	1136.9
30°	814.7	884.0	961.3	1040.9	1119.3	1174.4	1193.3	1174.4	1146.9	1107.3	1066.9
32.5°	787.8	859.6	946.5	1030.7	1106.7	1155.1	1159.2	1126.7	1084.1	1039.2	988.8
35°	747.1	824.9	918.7	1007.7	1079.7	1110.3	1092.2	1034.9	984.3	922.9	854.2
37.5°	701.1	787.0	881.1	974.1	1039.5	1047.4	1002.5	942.1	870.8	798.6	717.8
40°	666.8	757.7	854.6	948.5	1006.2	997.9	940.6	874.2	789.3	701.1	626.0
42.5°	636.0	726.9	825.7	917.8	964.0	941.2	874.2	792.7	701.6	618.4	549.8
45°	582.7	676.2	777.3	866.3	892.7	851.6	763.0	672.5	582.7	513.3	459.0
47.5°	531.0	623.4	723.5	801.7	811.1	755.8	658.9	565.8	488.7	432.1	393.8
50°	492.9	585.7	684.9	754.7	751.6	684.9	585.3	496.7	432.2	386.6	360.9
52.5°	458.8	546.4	641.8	705.2	689.2	616.4	521.4	442.7	389.7	354.0	330.7
55°	405.8	486.9	577.4	628.3	599.0	518.2	437.9	374.5	335.3	308.5	290.4
57.5°	353.1	429.2	506.6	538.1	505.5	431.0	364.1	318.1	288.6	268.7	257.0
60°	320.5	387.0	456.0	483.1	444.2	377.9	325.1	284.0	260.2	244.0	233.5
62.5°	288.0	347.4	412.5	427.3	391.7	335.7	288.9	254.7	235.2	220.8	210.9
65°	243.7	292.3	341.7	351.5	318.7	275.3	238.3	216.1	198.7	188.2	180.3
67.5°	199.9	238.8	273.9	281.8	253.1	223.0	196.2	176.9	165.1	156.3	149.7
70°	173.9	204.8	233.5	239.8	216.8	190.1	169.8	154.2	143.7	136.1	129.8
72.5°	146.4	172.2	196.0	200.4	181.6	161.1	144.4	132.2	122.9	118.1	111.9
75°	112.0	127.1	145.6	146.7	134.3	121.8	109.0	101.1	96.1	90.2	87.2
77.5°	79.1	90.9	101.5	103.5	96.1	87.7	80.5	74.2	70.1	67.3	64.5
80°	60.4	69.8	74.3	77.0	71.7	65.6	61.5	57.4	54.7	52.8	50.9
82.5°	43.1	49.0	53.2	55.2	52.3	48.8	44.5	42.2	40.2	38.6	38.0
85°	21.9	24.5	27.2	27.9	27.2	25.7	23.4	23.4	22.2	21.9	21.9
87.5°	8.2	9.9	10.4	11.7	11.5	11.9	12.2	12.2	12.3	12.2	12.1
90°	3.3	5.7	8.1	10.4	12.4	14.1	15.9	17.6	19.3	20.4	21.4
92.5°	19.3	19.1	18.9	18.7	19.0	19.8	20.7	21.5	22.4	22.9	23.5
95°	55.6	48.6	41.5	34.4	31.6	33.1	34.6	36.2	37.7	38.7	39.8
97.5°	104.5	84.6	64.6	44.7	36.5	40.0	43.4	46.9	50.4	51.2	52.1
100°	141.4	112.0	82.7	53.3	40.4	44.0	47.7	51.4	55.0	56.8	58.5
102.5°	215.5	209.3	203.1	196.8	178.5	148.0	117.5	87.1	56.6	58.8	61.0
105°	299.8	306.2	312.7	319.1	293.1	234.5	175.9	117.4	58.9	61.2	63.6
107.5°	380.2	385.4	390.5	395.8	363.2	293.1	222.8	152.6	82.4	80.0	77.6
110°	432.0	436.5	441.0	445.5	416.8	354.8	292.9	230.9	168.8	147.4	125.9



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	480.9	484.8	488.9	492.8	487.2	471.9	456.6	441.2	426.0	347.7	269.4
115°	558.5	562.2	565.8	569.5	573.9	579.3	584.6	590.1	595.4	496.0	396.8
117.5°	628.6	632.7	636.7	640.9	644.7	648.4	652.1	655.8	659.4	635.4	611.4
120°	678.7	681.9	685.1	688.3	691.9	695.7	699.6	703.5	707.3	709.9	712.5
122.5°	722.1	725.5	728.8	732.3	736.1	740.2	744.5	748.6	752.9	754.4	756.0
125°	787.3	790.1	792.8	795.7	799.1	803.1	807.3	811.3	815.4	816.9	818.4
127.5°	847.3	850.3	853.4	856.5	859.6	862.6	865.7	868.7	871.7	873.9	876.2
130°	885.4	888.9	892.2	895.6	898.6	900.9	903.3	905.6	908.1	910.4	912.7
132.5°	923.5	926.5	929.3	932.2	934.8	937.3	939.6	941.9	944.3	946.3	948.4
135°	974.2	977.7	981.1	984.5	987.1	989.1	991.0	992.9	994.9	997.0	999.2
137.5°	1023.9	1026.3	1028.7	1031.1	1033.4	1035.6	1037.7	1040.0	1042.2	1044.3	1046.3
140°	1056.4	1058.1	1059.9	1061.6	1063.6	1065.9	1068.3	1070.7	1073.1	1075.0	1076.9
142.5°	1084.0	1085.6	1087.1	1088.6	1090.8	1093.5	1096.2	1098.9	1101.6	1103.4	1105.1
145°	1125.9	1125.7	1125.5	1125.3	1127.0	1130.6	1134.3	1137.9	1141.6	1143.1	1144.6
147.5°	1163.3	1162.5	1161.6	1160.8	1162.3	1165.9	1169.4	1173.1	1176.7	1177.8	1178.9
150°	1187.3	1185.8	1184.4	1182.9	1183.8	1187.2	1190.6	1194.1	1197.5	1198.8	1200.1
152.5°	1208.0	1206.3	1204.7	1203.0	1203.8	1207.0	1210.3	1213.6	1216.8	1218.1	1219.4
155°	1238.0	1236.1	1234.2	1232.2	1232.5	1235.2	1237.7	1240.3	1242.8	1244.2	1245.5
157.5°	1262.1	1260.4	1258.8	1257.2	1257.3	1259.1	1260.9	1262.6	1264.5	1266.0	1267.4
160°	1276.4	1275.1	1273.7	1272.4	1272.4	1273.7	1275.1	1276.4	1277.6	1278.9	1280.2
162.5°	1288.7	1287.4	1286.1	1284.9	1284.8	1285.9	1287.0	1288.1	1289.2	1290.6	1292.1
165°	1305.3	1303.9	1302.7	1301.4	1301.1	1301.7	1302.3	1303.0	1303.6	1305.1	1306.7
167.5°	1317.6	1316.4	1315.0	1313.7	1313.4	1314.0	1314.6	1315.2	1315.9	1317.3	1318.8
170°	1324.5	1323.3	1322.0	1320.7	1320.3	1320.7	1321.1	1321.6	1322.0	1323.5	1325.0
172.5°	1329.2	1327.9	1326.7	1325.3	1324.9	1325.3	1325.8	1326.2	1326.7	1328.2	1329.6
175°	1334.9	1333.4	1332.0	1330.5	1329.9	1330.4	1330.8	1331.2	1331.6	1333.1	1334.6
177.5°	1336.3	1335.0	1333.8	1332.6	1332.1	1332.3	1332.4	1332.6	1332.8	1334.0	1335.2
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1017.8	1022.1	1022.1	1022.7	1027.4	1026.9	1026.6
5°	1083.2	1089.5	1090.4	1097.1	1101.7	1100.1	1096.0
7.5°	1144.8	1156.7	1165.8	1170.8	1176.8	1180.4	1178.8
10°	1193.7	1211.0	1221.5	1228.7	1237.4	1243.9	1241.5
12.5°	1238.0	1258.7	1273.1	1285.5	1286.6	1294.8	1289.2
15°	1307.2	1329.1	1331.3	1340.4	1347.6	1346.8	1347.2
17.5°	1330.0	1337.1	1338.5	1338.7	1338.8	1336.2	1330.4
20°	1321.9	1319.3	1312.8	1308.0	1299.3	1298.1	1290.6
22.5°	1283.2	1274.9	1258.8	1248.2	1234.7	1231.1	1229.0
25°	1207.2	1188.7	1163.1	1138.6	1131.8	1118.6	1122.4
27.5°	1102.9	1074.1	1046.3	1026.4	1008.5	988.7	994.3
30°	1029.6	997.1	958.0	927.8	908.6	889.7	886.3
32.5°	942.1	894.5	850.8	824.3	794.8	782.8	769.8
35°	791.2	744.9	701.5	664.2	642.7	626.0	611.0
37.5°	655.5	602.2	567.1	536.9	521.4	511.9	514.2
40°	571.4	524.6	499.0	475.9	461.6	454.8	456.4
42.5°	503.2	468.2	447.1	431.3	421.2	417.4	416.5
45°	425.8	406.2	388.8	379.8	374.9	370.7	368.1
47.5°	373.0	357.0	347.2	341.8	337.5	333.4	333.3
50°	341.3	330.7	324.0	318.3	314.9	311.8	314.6
52.5°	317.2	307.5	300.7	295.7	294.4	291.6	291.6
55°	281.3	273.8	268.9	264.4	262.2	260.6	258.7
57.5°	248.7	241.6	237.1	234.2	229.9	228.4	227.8
60°	225.5	219.8	215.3	211.6	209.6	206.7	206.7
62.5°	204.1	198.4	194.2	191.4	188.2	187.0	187.3
65°	173.1	168.5	164.4	161.4	160.7	158.4	159.2
67.5°	144.6	141.6	137.2	135.5	134.1	132.9	132.0
70°	125.6	122.6	120.3	118.1	116.9	116.9	116.9
72.5°	109.6	105.9	104.6	101.8	102.4	101.2	100.0
75°	84.8	82.6	81.5	80.3	78.5	78.5	78.5
77.5°	62.4	61.8	60.4	59.2	58.8	58.4	58.6
80°	48.3	47.9	47.2	47.2	46.4	46.0	45.2
82.5°	37.1	36.2	35.6	35.3	35.2	35.1	35.0
85°	21.1	20.4	20.4	20.7	20.0	20.0	20.4
87.5°	12.6	12.8	12.7	12.8	13.2	12.9	13.0
90°	22.5	23.6	24.3	24.7	25.1	25.7	26.1
92.5°	24.0	24.6	25.0	25.2	25.5	25.8	26.1
95°	40.9	41.9	42.3	42.1	41.9	41.7	41.5
97.5°	52.9	53.8	54.3	54.6	54.8	55.1	55.3
100°	60.2	61.9	62.9	63.3	63.8	64.2	64.6
102.5°	63.2	65.4	66.9	67.5	68.1	68.7	69.3
105°	65.9	68.3	69.9	70.8	71.6	72.5	73.3
107.5°	75.2	72.8	72.0	72.9	73.7	74.6	75.4
110°	104.5	83.1	72.8	73.6	74.5	75.3	76.2



TEST NUMBER: P331507-840

CATALOG NUMBER: S122DIW-S485D970U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	191.3	113.0	74.2	74.9	75.6	76.3	77.1
115°	297.5	198.2	140.9	125.4	110.0	94.5	79.2
117.5°	587.4	563.4	526.0	475.2	424.5	373.9	323.1
120°	715.0	717.6	704.4	675.5	646.5	617.5	588.7
122.5°	757.5	759.0	757.0	751.3	745.8	740.1	734.6
125°	819.9	821.4	822.4	823.1	823.7	824.4	825.1
127.5°	878.3	880.5	881.6	881.8	881.9	882.0	882.1
130°	915.1	917.5	918.6	918.3	918.1	917.9	917.7
132.5°	950.4	952.4	953.3	953.0	952.8	952.6	952.4
135°	1001.3	1003.4	1004.3	1003.9	1003.4	1003.0	1002.6
137.5°	1048.4	1050.6	1051.3	1050.6	1049.8	1049.0	1048.3
140°	1078.8	1080.8	1081.2	1080.2	1079.0	1077.9	1076.9
142.5°	1106.9	1108.6	1108.9	1107.9	1106.8	1105.8	1104.7
145°	1146.1	1147.5	1147.8	1146.7	1145.6	1144.6	1143.5
147.5°	1180.0	1181.1	1181.2	1180.3	1179.4	1178.5	1177.6
150°	1201.3	1202.6	1202.7	1201.7	1200.6	1199.5	1198.5
152.5°	1220.6	1221.9	1221.9	1220.5	1219.1	1217.7	1216.3
155°	1246.7	1248.0	1247.8	1246.1	1244.4	1242.6	1240.9
157.5°	1268.9	1270.3	1270.2	1268.5	1266.9	1265.2	1263.5
160°	1281.4	1282.7	1282.6	1281.1	1279.6	1278.2	1276.7
162.5°	1293.5	1295.1	1294.8	1292.9	1291.1	1289.3	1287.5
165°	1308.2	1309.7	1309.7	1308.2	1306.7	1305.1	1303.6
167.5°	1320.3	1321.8	1321.6	1319.7	1317.8	1315.9	1313.9
170°	1326.5	1328.0	1327.8	1325.9	1323.9	1322.0	1320.1
172.5°	1331.1	1332.6	1332.4	1330.5	1328.6	1326.7	1324.7
175°	1336.2	1337.7	1337.4	1335.1	1333.0	1330.9	1328.8
177.5°	1336.4	1337.6	1337.5	1335.8	1334.3	1332.8	1331.3
180°	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5	1333.5

(END OF REPORT)