

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: P331793

Luminaire Tested: **S122RDIW-S485D970U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331793  
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: S122RDIW-S485D970U835-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 970 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

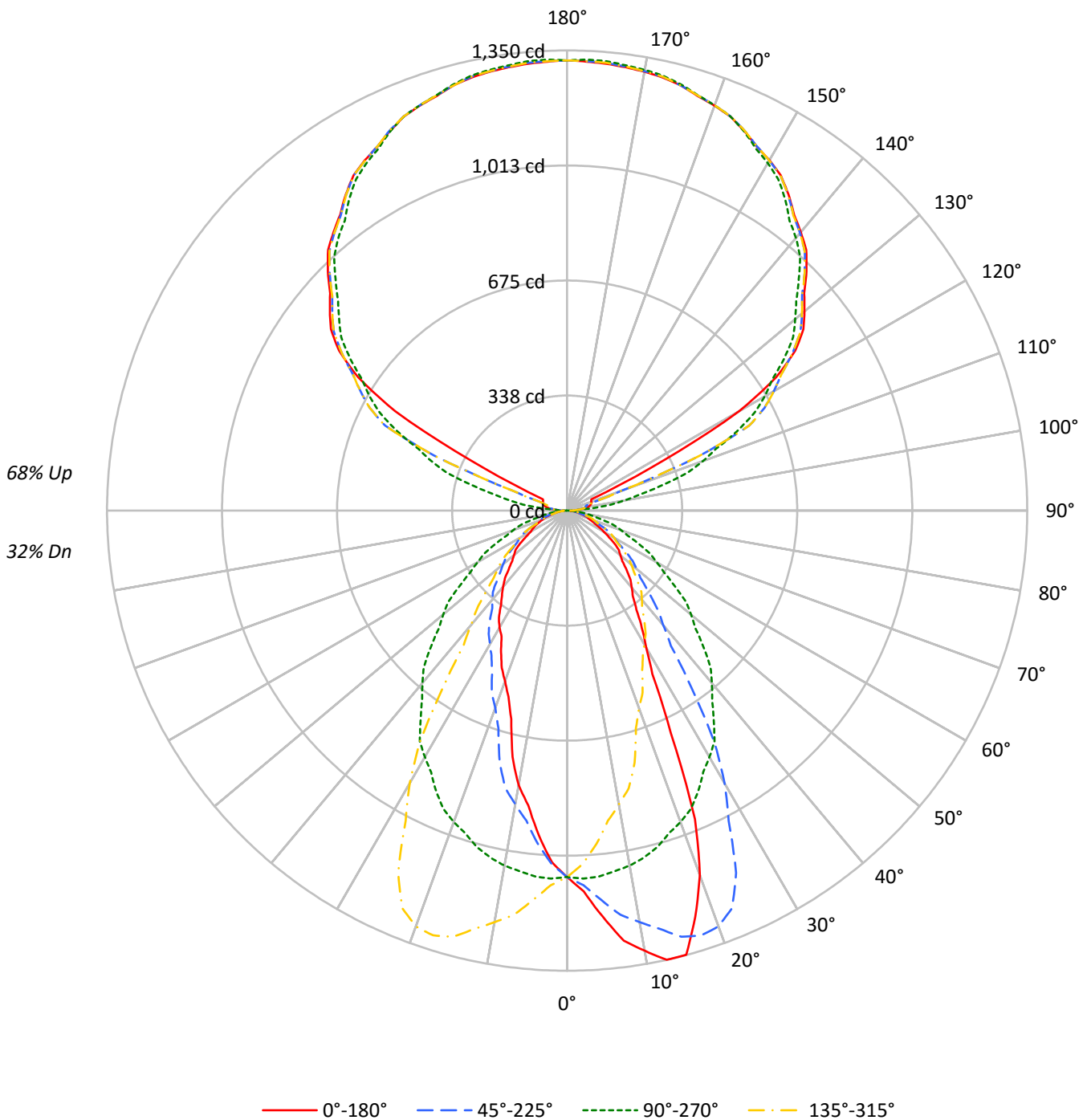
Lumens per Lamp: N/A  
Luminaire Lumens: 5730.6 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 45.2  
Input Voltage (V): 120  
Input Current (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



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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	56	56	56	40	40	40	32
1	94	90	87	83	85	82	79	76	65	63	61	50	49	48	36	35	35	28
2	86	79	74	69	78	72	67	63	58	54	51	45	42	41	32	31	30	25
3	79	70	63	58	71	64	58	53	51	47	44	40	37	35	29	28	26	21
4	73	62	55	50	65	57	50	46	46	41	38	36	33	30	26	25	23	19
5	67	56	48	43	60	51	44	39	41	37	33	32	29	27	24	22	20	17
6	62	50	43	37	55	46	39	34	37	33	29	29	26	24	22	20	18	15
7	57	45	38	33	51	42	35	30	34	29	26	27	24	21	20	18	16	14
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	17	15	12
9	49	38	31	26	45	35	28	24	29	24	21	23	20	17	18	15	14	11
10	46	35	28	23	42	32	26	22	26	22	19	21	18	16	16	14	13	11

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

	0°	90°	180°	270°
0°	17354	17354	17354	17354
5°	19379	17462	15483	17462
10°	21502	17339	13421	17339
15°	22559	17085	10574	17085
20°	19557	16708	9149	16708
25°	12827	16192	8170	16192
30°	8634	15567	7394	15567
35°	6993	14781	6668	14781
40°	6218	13923	6171	13923
45°	5628	12919	5507	12919
50°	5122	11921	5102	11921
55°	4814	10818	4752	10818
60°	4027	9804	3978	9804
65°	3396	8902	3851	8902
70°	3139	7950	3630	7950
75°	2938	6918	3356	6918
80°	2706	5690	2985	5690
85°	2482	4502	2631	4502



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.9	1.8
10°-20°	283.9	5.0
20°-30°	365.8	6.4
30°-40°	347.6	6.1
40°-50°	297.8	5.2
50°-60°	226.8	4.0
60°-70°	143.4	2.5
70°-80°	71.6	1.2
80°-90°	21.9	0.4
90°-100°	44.1	0.8
100°-110°	161.5	2.8
110°-120°	431.8	7.5
120°-130°	712.8	12.4
130°-140°	758.0	13.2
140°-150°	704.6	12.3
150°-160°	566.5	9.9
160°-170°	365.0	6.4
170°-180°	125.6	2.2
0°-30°	751.6	13.1
0°-40°	1099.2	19.2
0°-60°	1623.8	28.3
0°-90°	1860.7	32.5
90°-120°	637.4	11.1
90°-150°	2812.8	49.1
90°-180°	3870.0	67.5
0°-180°	5730.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1075	1075	1075	1075	1075	
5°	1196	1077	955	1077	1196	118
15°	1350	1022	633	1022	1350	364
25°	720	909	459	909	720	342
35°	355	750	338	750	355	227
45°	246	566	241	566	246	191
55°	171	384	169	384	171	150
65°	89	233	101	233	89	90
75°	47	111	54	111	47	50
85°	13	24	14	24	13	15
90°	26	1	26	1	26	12
95°	41	62	41	62	41	38
105°	73	290	73	290	73	76
115°	78	549	78	549	78	196
125°	817	777	817	777	817	707
135°	993	961	993	961	993	765
145°	1132	1115	1132	1115	1132	708
155°	1229	1228	1229	1228	1229	567
165°	1291	1294	1291	1294	1291	364
175°	1316	1323	1316	1323	1316	125
180°	1320	1320	1320	1320	1320	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1118.4	1119.3	1120.2	1118.1	1118.1	1116.3	1112.4	1109.4	1101.0	1099.8	1099.8
5°	1195.7	1195.0	1196.5	1191.6	1184.9	1183.4	1176.3	1167.0	1157.3	1146.4	1144.2
7.5°	1272.7	1271.6	1268.6	1267.7	1262.6	1251.3	1239.9	1227.7	1211.6	1195.8	1187.9
10°	1311.5	1323.8	1316.4	1303.3	1305.9	1288.4	1279.0	1263.0	1249.5	1226.0	1220.8
12.5°	1349.7	1354.6	1352.2	1344.8	1341.5	1329.3	1316.7	1302.7	1277.9	1256.8	1238.4
15°	1349.6	1356.7	1358.6	1356.3	1358.2	1357.4	1350.7	1339.1	1317.5	1294.3	1274.2
17.5°	1250.0	1254.9	1267.1	1275.4	1285.9	1308.0	1318.9	1323.2	1319.9	1306.7	1292.5
20°	1138.2	1130.0	1164.4	1181.9	1196.9	1234.2	1266.3	1278.6	1298.4	1298.1	1294.3
22.5°	979.9	981.8	1014.4	1035.2	1078.9	1116.2	1152.8	1199.2	1237.5	1262.8	1277.6
25°	720.0	734.2	766.7	795.0	843.6	913.1	976.2	1049.4	1118.4	1173.0	1224.9
27.5°	540.7	541.8	567.5	593.8	622.6	679.5	759.0	846.4	944.9	1026.1	1119.6
30°	463.1	460.8	471.7	487.7	512.4	556.4	616.2	702.1	800.3	922.8	1031.8
32.5°	408.1	408.2	416.4	428.3	448.7	478.4	519.4	589.1	682.0	802.4	930.2
35°	354.8	354.4	360.4	369.0	377.5	396.6	424.6	461.2	525.1	637.5	768.2
37.5°	316.5	318.2	321.1	326.5	335.9	346.5	363.4	387.9	433.4	499.9	609.7
40°	295.0	295.8	299.9	304.4	310.0	318.2	332.0	351.8	385.0	438.0	518.3
42.5°	275.3	276.0	279.0	283.1	287.5	295.8	307.2	324.3	351.3	392.6	458.9
45°	246.5	246.5	249.1	250.9	255.8	263.3	272.6	286.8	305.5	336.1	380.2
47.5°	219.4	219.5	221.2	224.4	227.5	233.3	242.5	254.1	267.7	291.4	329.0
50°	203.9	204.3	205.4	208.0	209.9	215.1	222.2	232.3	246.5	264.8	296.1
52.5°	191.3	191.1	192.5	193.7	194.9	198.7	204.0	212.9	225.6	241.5	267.5
55°	171.0	169.5	171.8	173.6	174.8	176.3	179.2	184.9	195.7	209.1	228.5
57.5°	145.6	145.0	146.6	148.3	151.8	155.9	158.4	162.0	167.6	177.2	196.5
60°	124.7	124.7	128.1	129.2	133.3	138.5	143.8	146.8	152.4	158.7	172.9
62.5°	106.2	106.5	108.1	109.2	111.5	117.9	125.3	131.8	137.1	143.2	152.6
65°	88.9	89.6	89.6	90.4	91.9	93.4	96.3	101.6	110.9	119.5	126.6
67.5°	75.4	75.7	75.9	76.6	77.0	78.6	79.8	82.2	84.3	92.5	101.3
70°	66.5	67.6	67.2	68.0	68.3	69.1	70.6	71.7	75.1	76.9	82.2
72.5°	58.1	58.9	58.9	59.3	60.3	60.4	61.6	62.7	64.9	66.5	69.3
75°	47.1	46.7	47.1	47.8	48.2	48.5	48.5	50.0	51.2	52.7	54.5
77.5°	36.3	36.7	36.6	36.7	36.7	37.4	37.3	38.0	39.1	39.9	40.8
80°	29.1	29.5	29.1	29.5	29.9	30.2	29.9	30.2	31.4	32.1	32.1
82.5°	22.6	22.6	22.9	22.9	23.0	23.1	23.6	23.7	24.5	24.3	24.6
85°	13.4	13.1	13.1	13.1	13.4	13.8	13.4	13.4	13.8	13.8	13.8
87.5°	9.9	10.2	10.1	10.0	9.9	9.8	9.5	9.6	9.1	9.2	8.6
90°	25.8	25.4	24.9	24.5	24.1	23.4	22.3	21.2	20.2	19.1	17.4
92.5°	25.8	25.5	25.3	25.0	24.8	24.4	23.8	23.3	22.7	22.2	21.3
95°	41.1	41.3	41.5	41.7	41.9	41.5	40.5	39.4	38.3	37.3	35.8
97.5°	54.8	54.6	54.3	54.1	53.8	53.3	52.4	51.6	50.7	49.9	46.4
100°	64.0	63.6	63.2	62.7	62.3	61.3	59.6	57.9	56.2	54.5	50.9
102.5°	68.6	68.0	67.4	66.8	66.2	64.8	62.6	60.4	58.2	56.0	86.2
105°	72.6	71.8	70.9	70.1	69.2	67.6	65.3	63.0	60.6	58.3	116.3
107.5°	74.7	73.9	73.0	72.2	71.3	72.1	74.5	76.8	79.2	81.6	151.1
110°	75.5	74.6	73.8	72.9	72.1	82.3	103.5	124.7	146.0	167.2	228.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	76.3	75.6	74.9	74.2	73.5	111.9	189.4	266.8	344.3	421.8	436.9
115°	78.4	93.6	108.9	124.2	139.5	196.3	294.6	392.9	491.2	589.6	584.3
117.5°	319.9	370.2	420.4	470.6	520.9	557.9	581.7	605.4	629.2	653.0	649.4
120°	582.9	611.5	640.2	668.9	697.5	710.6	708.0	705.5	703.0	700.4	696.6
122.5°	727.4	732.9	738.5	744.0	749.6	751.6	750.1	748.6	747.0	745.5	741.3
125°	817.0	816.3	815.7	815.1	814.4	813.4	811.9	810.4	808.9	807.4	803.4
127.5°	873.5	873.4	873.3	873.2	873.0	871.9	869.7	867.6	865.4	863.2	860.2
130°	908.7	908.9	909.1	909.3	909.6	908.5	906.2	903.8	901.5	899.2	896.8
132.5°	943.1	943.3	943.5	943.7	944.0	943.1	941.1	939.1	937.1	935.1	932.7
135°	992.8	993.2	993.6	994.1	994.5	993.6	991.5	989.4	987.3	985.2	983.2
137.5°	1038.1	1038.8	1039.5	1040.3	1041.0	1040.3	1038.2	1036.1	1034.1	1032.0	1029.8
140°	1066.4	1067.4	1068.5	1069.6	1070.6	1070.2	1068.3	1066.4	1064.5	1062.6	1060.2
142.5°	1093.9	1095.0	1096.0	1097.1	1098.1	1097.8	1096.1	1094.3	1092.6	1090.8	1088.2
145°	1132.3	1133.4	1134.4	1135.5	1136.6	1136.3	1134.9	1133.4	1131.9	1130.4	1126.8
147.5°	1166.1	1167.0	1167.9	1168.8	1169.7	1169.6	1168.5	1167.4	1166.3	1165.2	1161.6
150°	1186.8	1187.8	1188.9	1190.0	1191.0	1190.9	1189.6	1188.4	1187.1	1185.8	1182.4
152.5°	1204.4	1205.8	1207.2	1208.6	1210.0	1210.0	1208.7	1207.5	1206.2	1204.9	1201.7
155°	1228.8	1230.5	1232.2	1233.9	1235.6	1235.8	1234.5	1233.3	1232.0	1230.7	1228.2
157.5°	1251.2	1252.8	1254.5	1256.1	1257.8	1257.9	1256.5	1255.0	1253.6	1252.1	1250.3
160°	1264.2	1265.7	1267.1	1268.6	1270.1	1270.2	1268.9	1267.7	1266.4	1265.1	1263.9
162.5°	1274.9	1276.7	1278.5	1280.3	1282.2	1282.4	1280.9	1279.5	1278.0	1276.6	1275.5
165°	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9	1295.4	1293.9	1292.4	1290.9	1290.3
167.5°	1301.1	1303.0	1304.9	1306.8	1308.7	1308.9	1307.4	1305.9	1304.4	1303.0	1302.4
170°	1307.2	1309.1	1311.0	1312.9	1314.8	1315.0	1313.5	1312.1	1310.6	1309.1	1308.7
172.5°	1311.8	1313.7	1315.6	1317.5	1319.4	1319.6	1318.1	1316.6	1315.2	1313.7	1313.2
175°	1315.8	1317.9	1320.0	1322.1	1324.3	1324.6	1323.1	1321.6	1320.1	1318.6	1318.2
177.5°	1318.3	1319.8	1321.3	1322.8	1324.4	1324.5	1323.3	1322.2	1321.0	1319.8	1319.6
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1100.4	1098.1	1096.0	1090.6	1087.9	1081.9	1081.0	1080.7	1073.0	1065.5	1063.4
5°	1138.2	1132.3	1123.3	1112.8	1102.0	1090.8	1083.3	1077.4	1062.4	1048.2	1040.0
7.5°	1176.3	1163.5	1148.0	1128.2	1111.7	1093.2	1079.5	1067.1	1045.9	1025.6	1011.9
10°	1204.7	1183.8	1163.3	1136.0	1114.7	1093.8	1074.4	1057.6	1033.7	1006.8	987.7
12.5°	1222.3	1199.3	1171.0	1144.4	1116.8	1090.2	1064.2	1042.6	1014.6	986.8	964.1
15°	1246.2	1221.5	1187.2	1149.1	1113.6	1078.9	1049.0	1022.1	985.5	952.3	924.6
17.5°	1265.7	1231.7	1194.8	1150.8	1109.7	1065.6	1027.1	992.7	952.0	911.9	879.4
20°	1271.9	1238.3	1195.7	1151.7	1103.1	1051.2	1009.8	972.4	928.7	885.0	847.7
22.5°	1268.0	1241.9	1194.5	1141.8	1092.1	1037.8	991.0	947.6	899.2	854.6	811.3
25°	1241.7	1232.7	1187.9	1130.4	1073.6	1010.5	956.4	908.9	853.7	805.9	758.8
27.5°	1180.2	1199.6	1171.8	1110.5	1047.4	979.7	918.9	864.9	807.5	753.7	706.8
30°	1121.1	1165.5	1153.5	1096.8	1026.2	959.7	891.4	835.0	773.8	718.5	672.2
32.5°	1040.1	1113.5	1125.2	1077.7	1004.7	931.6	860.0	803.9	740.0	681.7	636.6
35°	911.2	1021.0	1071.4	1041.1	967.9	889.2	815.2	749.9	685.6	628.1	583.3
37.5°	757.4	906.9	991.0	993.1	925.9	844.0	763.5	698.6	632.8	576.4	527.9
40°	657.6	819.7	929.1	953.4	896.6	808.1	726.7	660.6	596.4	541.1	485.5
42.5°	568.0	729.5	864.0	906.2	861.1	773.2	691.5	622.4	559.9	507.6	450.8
45°	459.3	600.5	748.7	824.2	799.2	717.7	631.5	565.8	507.1	461.9	407.4
47.5°	387.5	487.0	630.4	732.5	732.0	657.7	572.9	509.9	455.5	413.2	369.0
50°	346.5	433.2	554.6	670.3	680.0	617.7	537.0	474.6	423.9	379.4	343.9
52.5°	309.8	381.2	490.3	601.3	628.9	574.9	496.7	439.1	389.8	348.9	318.5
55°	261.8	317.0	400.0	503.8	545.6	507.5	438.0	384.3	344.3	310.0	283.8
57.5°	221.4	262.9	329.4	413.0	461.7	437.7	380.5	336.8	302.6	271.5	250.9
60°	196.1	230.0	286.4	356.3	410.0	393.2	344.3	303.6	274.5	247.6	228.2
62.5°	172.2	201.4	249.7	306.4	355.7	348.7	308.8	274.6	249.1	224.6	208.2
65°	138.5	159.8	197.5	242.0	281.6	284.9	256.2	233.0	210.2	190.8	176.3
67.5°	110.3	124.2	150.8	188.2	217.9	228.5	210.9	193.2	175.1	160.1	147.5
70°	93.0	104.2	123.6	153.9	181.1	192.3	182.2	168.4	152.7	140.4	129.6
72.5°	75.4	86.3	100.6	122.8	146.2	158.3	154.8	144.8	132.1	121.9	111.7
75°	56.8	60.1	69.8	84.8	103.1	113.5	116.1	110.9	100.8	93.0	87.0
77.5°	42.0	44.0	48.6	56.5	68.4	77.7	81.6	81.0	74.0	69.5	63.9
80°	33.6	34.7	37.0	40.3	49.3	58.6	61.2	61.2	56.4	54.5	48.9
82.5°	25.5	26.4	27.7	29.6	33.8	41.9	44.8	45.4	42.3	39.9	35.5
85°	14.6	14.2	14.9	16.1	16.8	19.0	23.5	24.3	23.5	20.5	19.4
87.5°	8.2	8.2	7.8	7.1	7.0	6.8	7.8	8.9	8.1	7.7	7.6
90°	15.7	14.0	12.3	10.3	8.0	5.6	3.3	1.0	3.3	5.6	8.0
92.5°	20.5	19.6	18.8	18.5	18.7	18.9	19.1	19.3	19.1	18.9	18.7
95°	34.3	32.8	31.3	34.1	41.1	48.1	55.1	62.1	55.1	48.1	41.1
97.5°	43.0	39.6	36.1	44.3	64.0	83.8	103.5	123.3	103.5	83.8	64.0
100°	47.2	43.6	40.0	52.8	81.9	110.9	140.0	169.1	140.0	110.9	81.9
102.5°	116.4	146.6	176.8	194.9	201.1	207.3	213.4	219.6	213.4	207.3	201.1
105°	174.2	232.2	290.2	316.0	309.6	303.2	296.9	290.5	296.9	303.2	309.6
107.5°	220.6	290.2	359.7	391.9	386.7	381.6	376.5	371.3	376.5	381.6	386.7
110°	290.0	351.3	412.7	441.1	436.7	432.2	427.8	423.3	427.8	432.2	436.7





TEST NUMBER: P331793

CATALOG NUMBER: S122RDIW-S485D970U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	452.1	467.3	482.4	488.0	484.1	480.1	476.2	472.2	476.2	480.1	484.1
115°	578.9	573.6	568.3	563.9	560.3	556.7	553.0	549.4	553.0	556.7	560.3
117.5°	645.7	642.1	638.4	634.6	630.5	626.5	622.5	618.4	622.5	626.5	630.5
120°	692.8	688.9	685.1	681.6	678.4	675.2	672.1	668.9	672.1	675.2	678.4
122.5°	737.2	733.0	728.9	725.1	721.7	718.4	715.0	711.7	715.0	718.4	721.7
125°	799.4	795.3	791.3	787.9	785.1	782.4	779.6	776.8	779.6	782.4	785.1
127.5°	857.2	854.2	851.2	848.1	845.1	842.0	839.0	835.9	839.0	842.0	845.1
130°	894.5	892.1	889.8	886.9	883.5	880.2	876.8	873.4	876.8	880.2	883.5
132.5°	930.4	928.1	925.7	923.1	920.2	917.4	914.5	911.6	914.5	917.4	920.2
135°	981.3	979.4	977.5	974.9	971.5	968.1	964.7	961.3	964.7	968.1	971.5
137.5°	1027.6	1025.5	1023.3	1021.0	1018.7	1016.3	1013.9	1011.5	1013.9	1016.3	1018.7
140°	1057.9	1055.5	1053.2	1051.2	1049.5	1047.8	1046.1	1044.4	1046.1	1047.8	1049.5
142.5°	1085.5	1082.8	1080.1	1078.0	1076.5	1075.0	1073.4	1071.9	1073.4	1075.0	1076.5
145°	1123.2	1119.6	1116.0	1114.3	1114.5	1114.7	1114.9	1115.1	1114.9	1114.7	1114.5
147.5°	1158.0	1154.5	1150.9	1149.5	1150.3	1151.1	1151.9	1152.8	1151.9	1151.1	1150.3
150°	1179.0	1175.6	1172.2	1171.3	1172.8	1174.2	1175.7	1177.2	1175.7	1174.2	1172.8
152.5°	1198.5	1195.2	1192.0	1191.2	1192.9	1194.5	1196.2	1197.9	1196.2	1194.5	1192.9
155°	1225.6	1223.1	1220.5	1220.2	1222.1	1224.0	1225.9	1227.9	1225.9	1224.0	1222.1
157.5°	1248.6	1246.8	1245.0	1244.9	1246.5	1248.1	1249.8	1251.4	1249.8	1248.1	1246.5
160°	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1263.9	1262.6	1261.3
162.5°	1274.4	1273.3	1272.2	1272.3	1273.5	1274.8	1276.1	1277.4	1276.1	1274.8	1273.5
165°	1289.6	1289.0	1288.4	1288.7	1290.0	1291.2	1292.5	1293.8	1292.5	1291.2	1290.0
167.5°	1301.8	1301.2	1300.6	1300.9	1302.2	1303.5	1304.7	1306.0	1304.7	1303.5	1302.2
170°	1308.2	1307.8	1307.4	1307.8	1309.1	1310.4	1311.6	1312.9	1311.6	1310.4	1309.1
172.5°	1312.8	1312.4	1312.0	1312.4	1313.7	1314.9	1316.2	1317.5	1316.2	1314.9	1313.7
175°	1317.8	1317.4	1316.9	1317.5	1319.0	1320.4	1321.9	1323.4	1321.9	1320.4	1319.0
177.5°	1319.4	1319.3	1319.1	1319.6	1320.8	1322.0	1323.2	1324.4	1323.2	1322.0	1320.8
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1059.5	1057.4	1053.5	1047.6	1044.0	1037.7	1033.5	1035.9	1036.5	1035.9	1035.3
5°	1031.1	1023.2	1012.4	1001.9	992.2	981.8	975.8	973.2	967.9	965.0	963.5
7.5°	996.6	983.1	967.8	949.6	934.1	917.9	909.6	905.5	894.8	889.0	883.9
10°	970.9	949.6	934.3	910.4	895.9	874.6	860.0	860.4	845.8	837.6	831.6
12.5°	942.6	919.2	893.7	872.2	852.0	834.9	817.3	810.2	794.7	786.8	770.7
15°	895.5	868.2	841.4	812.2	791.7	765.2	739.8	708.8	683.8	662.1	656.1
17.5°	844.1	810.4	783.4	749.2	714.0	669.4	640.0	622.0	606.9	595.5	587.0
20°	808.9	774.5	745.8	694.2	646.8	616.5	594.9	581.1	565.4	553.1	546.3
22.5°	771.8	736.0	696.8	639.2	602.3	578.0	558.7	542.8	532.2	522.6	516.5
25°	719.2	680.0	615.4	575.8	546.0	520.6	507.1	497.4	486.2	473.1	467.2
27.5°	663.7	601.3	554.9	525.5	497.0	480.5	468.4	453.9	443.9	438.0	431.8
30°	622.1	559.8	523.6	491.4	471.3	453.0	438.8	430.6	420.9	410.8	406.7
32.5°	575.8	526.0	491.3	464.6	444.1	428.5	417.3	404.0	397.0	390.8	382.2
35°	518.3	480.6	448.9	427.2	407.8	395.1	382.0	374.2	361.5	356.3	352.9
37.5°	469.6	436.9	413.2	390.4	375.0	361.0	353.0	340.5	335.0	327.7	320.6
40°	442.1	410.0	387.3	368.6	351.4	340.9	330.9	320.8	312.6	309.2	300.6
42.5°	414.1	387.9	365.1	344.7	333.2	322.1	309.4	302.0	293.4	288.0	282.7
45°	375.3	352.2	332.7	315.9	303.2	291.7	283.4	271.1	266.3	255.4	250.9
47.5°	341.2	319.7	301.2	285.2	272.8	265.3	253.3	243.6	235.9	229.2	223.5
50°	317.0	299.1	281.2	267.0	255.8	245.0	232.7	227.8	215.8	212.5	209.1
52.5°	294.9	277.9	261.5	247.6	236.4	225.9	215.0	208.7	200.6	197.2	194.8
55°	264.0	247.6	231.9	219.6	208.4	197.5	190.8	183.0	179.2	176.6	173.6
57.5°	232.9	218.2	206.1	193.7	182.4	173.8	166.0	161.3	157.4	154.0	150.4
60°	213.2	199.0	188.2	176.6	165.1	158.0	152.0	146.4	141.9	136.7	135.2
62.5°	192.3	179.9	170.0	158.7	148.6	142.1	136.5	131.2	125.8	118.2	116.1
65°	163.6	153.9	143.4	134.1	125.1	118.8	110.5	104.6	102.3	101.6	101.2
67.5°	137.6	128.4	119.4	109.9	101.7	95.8	91.6	90.7	89.2	88.7	87.7
70°	120.2	111.7	102.7	93.7	85.9	84.8	83.3	81.8	79.9	79.2	78.4
72.5°	104.7	95.8	86.9	79.7	76.3	74.9	73.4	71.9	70.7	69.9	69.5
75°	80.3	72.1	66.1	63.5	61.6	60.5	58.3	57.1	56.4	55.3	54.9
77.5°	57.8	53.2	50.4	48.8	46.8	45.6	44.4	43.2	42.4	42.2	41.6
80°	44.1	41.8	40.0	37.7	37.0	35.5	35.1	34.0	34.4	33.2	33.2
82.5°	34.2	31.4	29.8	28.8	28.0	26.8	26.4	25.9	26.0	25.2	25.2
85°	17.6	16.8	16.1	15.3	15.3	14.2	14.6	14.2	14.2	13.4	13.1
87.5°	7.7	7.8	7.6	7.9	8.3	8.3	8.5	8.4	8.6	8.9	8.7
90°	10.3	12.3	14.0	15.7	17.4	19.1	20.2	21.2	22.3	23.4	24.1
92.5°	18.5	18.8	19.6	20.5	21.3	22.2	22.7	23.3	23.8	24.4	24.8
95°	34.1	31.3	32.8	34.3	35.8	37.3	38.3	39.4	40.5	41.5	41.9
97.5°	44.3	36.1	39.6	43.0	46.4	49.9	50.7	51.6	52.4	53.3	53.8
100°	52.8	40.0	43.6	47.2	50.9	54.5	56.2	57.9	59.6	61.3	62.3
102.5°	194.9	176.8	146.6	116.4	86.2	56.0	58.2	60.4	62.6	64.8	66.2
105°	316.0	290.2	232.2	174.2	116.3	58.3	60.6	63.0	65.3	67.6	69.2
107.5°	391.9	359.7	290.2	220.6	151.1	81.6	79.2	76.8	74.5	72.1	71.3
110°	441.1	412.7	351.3	290.0	228.6	167.2	146.0	124.7	103.5	82.3	72.1



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CATALOG NUMBER: S122RDIW-S485D970U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	488.0	482.4	467.3	452.1	436.9	421.8	344.3	266.8	189.4	111.9	73.5
115°	563.9	568.3	573.6	578.9	584.3	589.6	491.2	392.9	294.6	196.3	139.5
117.5°	634.6	638.4	642.1	645.7	649.4	653.0	629.2	605.4	581.7	557.9	520.9
120°	681.6	685.1	688.9	692.8	696.6	700.4	703.0	705.5	708.0	710.6	697.5
122.5°	725.1	728.9	733.0	737.2	741.3	745.5	747.0	748.6	750.1	751.6	749.6
125°	787.9	791.3	795.3	799.4	803.4	807.4	808.9	810.4	811.9	813.4	814.4
127.5°	848.1	851.2	854.2	857.2	860.2	863.2	865.4	867.6	869.7	871.9	873.0
130°	886.9	889.8	892.1	894.5	896.8	899.2	901.5	903.8	906.2	908.5	909.6
132.5°	923.1	925.7	928.1	930.4	932.7	935.1	937.1	939.1	941.1	943.1	944.0
135°	974.9	977.5	979.4	981.3	983.2	985.2	987.3	989.4	991.5	993.6	994.5
137.5°	1021.0	1023.3	1025.5	1027.6	1029.8	1032.0	1034.1	1036.1	1038.2	1040.3	1041.0
140°	1051.2	1053.2	1055.5	1057.9	1060.2	1062.6	1064.5	1066.4	1068.3	1070.2	1070.6
142.5°	1078.0	1080.1	1082.8	1085.5	1088.2	1090.8	1092.6	1094.3	1096.1	1097.8	1098.1
145°	1114.3	1116.0	1119.6	1123.2	1126.8	1130.4	1131.9	1133.4	1134.9	1136.3	1136.6
147.5°	1149.5	1150.9	1154.5	1158.0	1161.6	1165.2	1166.3	1167.4	1168.5	1169.6	1169.7
150°	1171.3	1172.2	1175.6	1179.0	1182.4	1185.8	1187.1	1188.4	1189.6	1190.9	1191.0
152.5°	1191.2	1192.0	1195.2	1198.5	1201.7	1204.9	1206.2	1207.5	1208.7	1210.0	1210.0
155°	1220.2	1220.5	1223.1	1225.6	1228.2	1230.7	1232.0	1233.3	1234.5	1235.8	1235.6
157.5°	1244.9	1245.0	1246.8	1248.6	1250.3	1252.1	1253.6	1255.0	1256.5	1257.9	1257.8
160°	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1266.4	1267.7	1268.9	1270.2	1270.1
162.5°	1272.3	1272.2	1273.3	1274.4	1275.5	1276.6	1278.0	1279.5	1280.9	1282.4	1282.2
165°	1288.7	1288.4	1289.0	1289.6	1290.3	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9
167.5°	1300.9	1300.6	1301.2	1301.8	1302.4	1303.0	1304.4	1305.9	1307.4	1308.9	1308.7
170°	1307.8	1307.4	1307.8	1308.2	1308.7	1309.1	1310.6	1312.1	1313.5	1315.0	1314.8
172.5°	1312.4	1312.0	1312.4	1312.8	1313.2	1313.7	1315.2	1316.6	1318.1	1319.6	1319.4
175°	1317.5	1316.9	1317.4	1317.8	1318.2	1318.6	1320.1	1321.6	1323.1	1324.6	1324.3
177.5°	1319.6	1319.1	1319.3	1319.4	1319.6	1319.8	1321.0	1322.2	1323.3	1324.5	1324.4
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1032.0	1032.6	1031.7	1032.3	1031.7	1032.6	1032.0	1035.3	1035.9	1036.5	1035.9
5°	961.6	957.1	956.4	955.3	956.4	957.1	961.6	963.5	965.0	967.9	973.2
7.5°	877.5	876.8	875.0	872.3	875.0	876.8	877.5	883.9	889.0	894.8	905.5
10°	823.4	821.6	821.2	818.6	821.2	821.6	823.4	831.6	837.6	845.8	860.4
12.5°	760.1	748.1	746.8	740.3	746.8	748.1	760.1	770.7	786.8	794.7	810.2
15°	647.2	644.9	637.5	632.6	637.5	644.9	647.2	656.1	662.1	683.8	708.8
17.5°	582.6	575.3	573.0	572.0	573.0	575.3	582.6	587.0	595.5	606.9	622.0
20°	541.1	534.4	533.3	532.5	533.3	534.4	541.1	546.3	553.1	565.4	581.1
22.5°	512.4	505.4	502.5	500.3	502.5	505.4	512.4	516.5	522.6	532.2	542.8
25°	463.4	460.8	459.3	458.6	459.3	460.8	463.4	467.2	473.1	486.2	497.4
27.5°	425.1	419.4	418.2	416.3	418.2	419.4	425.1	431.8	438.0	443.9	453.9
30°	403.3	401.4	398.8	396.6	398.8	401.4	403.3	406.7	410.8	420.9	430.6
32.5°	377.6	376.1	373.7	372.7	373.7	376.1	377.6	382.2	390.8	397.0	404.0
35°	349.2	343.9	341.7	338.3	341.7	343.9	349.2	352.9	356.3	361.5	374.2
37.5°	319.1	316.3	313.2	314.3	313.2	316.3	319.1	320.6	327.7	335.0	340.5
40°	295.8	293.9	293.1	292.8	293.1	293.9	295.8	300.6	309.2	312.6	320.8
42.5°	277.2	272.1	270.1	270.1	270.1	272.1	277.2	282.7	288.0	293.4	302.0
45°	249.1	244.2	240.9	241.2	240.9	244.2	249.1	250.9	255.4	266.3	271.1
47.5°	220.3	220.1	218.0	218.7	218.0	220.1	220.3	223.5	229.2	235.9	243.6
50°	206.5	204.3	202.8	203.1	202.8	204.3	206.5	209.1	212.5	215.8	227.8
52.5°	193.4	191.4	190.2	191.8	190.2	191.4	193.4	194.8	197.2	200.6	208.7
55°	171.8	169.5	169.2	168.8	169.2	169.5	171.8	173.6	176.6	179.2	183.0
57.5°	147.7	146.2	143.9	143.0	143.9	146.2	147.7	150.4	154.0	157.4	161.3
60°	130.3	127.3	123.6	123.2	123.6	127.3	130.3	135.2	136.7	141.9	146.4
62.5°	114.5	113.9	113.2	113.1	113.2	113.9	114.5	116.1	118.2	125.8	131.2
65°	100.5	100.1	100.5	100.8	100.5	100.1	100.5	101.2	101.6	102.3	104.6
67.5°	87.5	86.9	86.2	86.5	86.2	86.9	87.5	87.7	88.7	89.2	90.7
70°	77.7	77.3	76.9	76.9	76.9	77.3	77.7	78.4	79.2	79.9	81.8
72.5°	68.1	68.0	67.7	67.4	67.7	68.0	68.1	69.5	69.9	70.7	71.9
75°	54.5	53.8	53.8	53.8	53.8	53.8	54.5	54.9	55.3	56.4	57.1
77.5°	41.5	41.2	40.8	40.5	40.8	41.2	41.5	41.6	42.2	42.4	43.2
80°	32.9	32.5	32.1	32.1	32.1	32.5	32.9	33.2	33.2	34.4	34.0
82.5°	25.1	24.7	24.6	24.3	24.6	24.7	25.1	25.2	25.2	26.0	25.9
85°	13.4	13.8	13.4	14.2	13.4	13.8	13.4	13.1	13.4	14.2	14.2
87.5°	8.8	8.6	9.0	8.7	9.0	8.6	8.8	8.7	8.9	8.6	8.4
90°	24.5	24.9	25.4	25.8	25.4	24.9	24.5	24.1	23.4	22.3	21.2
92.5°	25.0	25.3	25.5	25.8	25.5	25.3	25.0	24.8	24.4	23.8	23.3
95°	41.7	41.5	41.3	41.1	41.3	41.5	41.7	41.9	41.5	40.5	39.4
97.5°	54.1	54.3	54.6	54.8	54.6	54.3	54.1	53.8	53.3	52.4	51.6
100°	62.7	63.2	63.6	64.0	63.6	63.2	62.7	62.3	61.3	59.6	57.9
102.5°	66.8	67.4	68.0	68.6	68.0	67.4	66.8	66.2	64.8	62.6	60.4
105°	70.1	70.9	71.8	72.6	71.8	70.9	70.1	69.2	67.6	65.3	63.0
107.5°	72.2	73.0	73.9	74.7	73.9	73.0	72.2	71.3	72.1	74.5	76.8
110°	72.9	73.8	74.6	75.5	74.6	73.8	72.9	72.1	82.3	103.5	124.7



TEST NUMBER: P331793

CATALOG NUMBER: S122RDIW-S485D970U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	74.2	74.9	75.6	76.3	75.6	74.9	74.2	73.5	111.9	189.4	266.8
115°	124.2	108.9	93.6	78.4	93.6	108.9	124.2	139.5	196.3	294.6	392.9
117.5°	470.6	420.4	370.2	319.9	370.2	420.4	470.6	520.9	557.9	581.7	605.4
120°	668.9	640.2	611.5	582.9	611.5	640.2	668.9	697.5	710.6	708.0	705.5
122.5°	744.0	738.5	732.9	727.4	732.9	738.5	744.0	749.6	751.6	750.1	748.6
125°	815.1	815.7	816.3	817.0	816.3	815.7	815.1	814.4	813.4	811.9	810.4
127.5°	873.2	873.3	873.4	873.5	873.4	873.3	873.2	873.0	871.9	869.7	867.6
130°	909.3	909.1	908.9	908.7	908.9	909.1	909.3	909.6	908.5	906.2	903.8
132.5°	943.7	943.5	943.3	943.1	943.3	943.5	943.7	944.0	943.1	941.1	939.1
135°	994.1	993.6	993.2	992.8	993.2	993.6	994.1	994.5	993.6	991.5	989.4
137.5°	1040.3	1039.5	1038.8	1038.1	1038.8	1039.5	1040.3	1041.0	1040.3	1038.2	1036.1
140°	1069.6	1068.5	1067.4	1066.4	1067.4	1068.5	1069.6	1070.6	1070.2	1068.3	1066.4
142.5°	1097.1	1096.0	1095.0	1093.9	1095.0	1096.0	1097.1	1098.1	1097.8	1096.1	1094.3
145°	1135.5	1134.4	1133.4	1132.3	1133.4	1134.4	1135.5	1136.6	1136.3	1134.9	1133.4
147.5°	1168.8	1167.9	1167.0	1166.1	1167.0	1167.9	1168.8	1169.7	1169.6	1168.5	1167.4
150°	1190.0	1188.9	1187.8	1186.8	1187.8	1188.9	1190.0	1191.0	1190.9	1189.6	1188.4
152.5°	1208.6	1207.2	1205.8	1204.4	1205.8	1207.2	1208.6	1210.0	1210.0	1208.7	1207.5
155°	1233.9	1232.2	1230.5	1228.8	1230.5	1232.2	1233.9	1235.6	1235.8	1234.5	1233.3
157.5°	1256.1	1254.5	1252.8	1251.2	1252.8	1254.5	1256.1	1257.8	1257.9	1256.5	1255.0
160°	1268.6	1267.1	1265.7	1264.2	1265.7	1267.1	1268.6	1270.1	1270.2	1268.9	1267.7
162.5°	1280.3	1278.5	1276.7	1274.9	1276.7	1278.5	1280.3	1282.2	1282.4	1280.9	1279.5
165°	1295.4	1293.9	1292.4	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9	1295.4	1293.9
167.5°	1306.8	1304.9	1303.0	1301.1	1303.0	1304.9	1306.8	1308.7	1308.9	1307.4	1305.9
170°	1312.9	1311.0	1309.1	1307.2	1309.1	1311.0	1312.9	1314.8	1315.0	1313.5	1312.1
172.5°	1317.5	1315.6	1313.7	1311.8	1313.7	1315.6	1317.5	1319.4	1319.6	1318.1	1316.6
175°	1322.1	1320.0	1317.9	1315.8	1317.9	1320.0	1322.1	1324.3	1324.6	1323.1	1321.6
177.5°	1322.8	1321.3	1319.8	1318.3	1319.8	1321.3	1322.8	1324.4	1324.5	1323.3	1322.2
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1033.5	1037.7	1044.0	1047.6	1053.5	1057.4	1059.5	1063.4	1065.5	1073.0	1080.7
5°	975.8	981.8	992.2	1001.9	1012.4	1023.2	1031.1	1040.0	1048.2	1062.4	1077.4
7.5°	909.6	917.9	934.1	949.6	967.8	983.1	996.6	1011.9	1025.6	1045.9	1067.1
10°	860.0	874.6	895.9	910.4	934.3	949.6	970.9	987.7	1006.8	1033.7	1057.6
12.5°	817.3	834.9	852.0	872.2	893.7	919.2	942.6	964.1	986.8	1014.6	1042.6
15°	739.8	765.2	791.7	812.2	841.4	868.2	895.5	924.6	952.3	985.5	1022.1
17.5°	640.0	669.4	714.0	749.2	783.4	810.4	844.1	879.4	911.9	952.0	992.7
20°	594.9	616.5	646.8	694.2	745.8	774.5	808.9	847.7	885.0	928.7	972.4
22.5°	558.7	578.0	602.3	639.2	696.8	736.0	771.8	811.3	854.6	899.2	947.6
25°	507.1	520.6	546.0	575.8	615.4	680.0	719.2	758.8	805.9	853.7	908.9
27.5°	468.4	480.5	497.0	525.5	554.9	601.3	663.7	706.8	753.7	807.5	864.9
30°	438.8	453.0	471.3	491.4	523.6	559.8	622.1	672.2	718.5	773.8	835.0
32.5°	417.3	428.5	444.1	464.6	491.3	526.0	575.8	636.6	681.7	740.0	803.9
35°	382.0	395.1	407.8	427.2	448.9	480.6	518.3	583.3	628.1	685.6	749.9
37.5°	353.0	361.0	375.0	390.4	413.2	436.9	469.6	527.9	576.4	632.8	698.6
40°	330.9	340.9	351.4	368.6	387.3	410.0	442.1	485.5	541.1	596.4	660.6
42.5°	309.4	322.1	333.2	344.7	365.1	387.9	414.1	450.8	507.6	559.9	622.4
45°	283.4	291.7	303.2	315.9	332.7	352.2	375.3	407.4	461.9	507.1	565.8
47.5°	253.3	265.3	272.8	285.2	301.2	319.7	341.2	369.0	413.2	455.5	509.9
50°	232.7	245.0	255.8	267.0	281.2	299.1	317.0	343.9	379.4	423.9	474.6
52.5°	215.0	225.9	236.4	247.6	261.5	277.9	294.9	318.5	348.9	389.8	439.1
55°	190.8	197.5	208.4	219.6	231.9	247.6	264.0	283.8	310.0	344.3	384.3
57.5°	166.0	173.8	182.4	193.7	206.1	218.2	232.9	250.9	271.5	302.6	336.8
60°	152.0	158.0	165.1	176.6	188.2	199.0	213.2	228.2	247.6	274.5	303.6
62.5°	136.5	142.1	148.6	158.7	170.0	179.9	192.3	208.2	224.6	249.1	274.6
65°	110.5	118.8	125.1	134.1	143.4	153.9	163.6	176.3	190.8	210.2	233.0
67.5°	91.6	95.8	101.7	109.9	119.4	128.4	137.6	147.5	160.1	175.1	193.2
70°	83.3	84.8	85.9	93.7	102.7	111.7	120.2	129.6	140.4	152.7	168.4
72.5°	73.4	74.9	76.3	79.7	86.9	95.8	104.7	111.7	121.9	132.1	144.8
75°	58.3	60.5	61.6	63.5	66.1	72.1	80.3	87.0	93.0	100.8	110.9
77.5°	44.4	45.6	46.8	48.8	50.4	53.2	57.8	63.9	69.5	74.0	81.0
80°	35.1	35.5	37.0	37.7	40.0	41.8	44.1	48.9	54.5	56.4	61.2
82.5°	26.4	26.8	28.0	28.8	29.8	31.4	34.2	35.5	39.9	42.3	45.4
85°	14.6	14.2	15.3	15.3	16.1	16.8	17.6	19.4	20.5	23.5	24.3
87.5°	8.5	8.3	8.3	7.9	7.6	7.8	7.7	7.6	7.7	8.1	8.9
90°	20.2	19.1	17.4	15.7	14.0	12.3	10.3	8.0	5.6	3.3	1.0
92.5°	22.7	22.2	21.3	20.5	19.6	18.8	18.5	18.7	18.9	19.1	19.3
95°	38.3	37.3	35.8	34.3	32.8	31.3	34.1	41.1	48.1	55.1	62.1
97.5°	50.7	49.9	46.4	43.0	39.6	36.1	44.3	64.0	83.8	103.5	123.3
100°	56.2	54.5	50.9	47.2	43.6	40.0	52.8	81.9	110.9	140.0	169.1
102.5°	58.2	56.0	86.2	116.4	146.6	176.8	194.9	201.1	207.3	213.4	219.6
105°	60.6	58.3	116.3	174.2	232.2	290.2	316.0	309.6	303.2	296.9	290.5
107.5°	79.2	81.6	151.1	220.6	290.2	359.7	391.9	386.7	381.6	376.5	371.3
110°	146.0	167.2	228.6	290.0	351.3	412.7	441.1	436.7	432.2	427.8	423.3



TEST NUMBER: P331793

CATALOG NUMBER: S122RDIW-S485D970U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	344.3	421.8	436.9	452.1	467.3	482.4	488.0	484.1	480.1	476.2	472.2
115°	491.2	589.6	584.3	578.9	573.6	568.3	563.9	560.3	556.7	553.0	549.4
117.5°	629.2	653.0	649.4	645.7	642.1	638.4	634.6	630.5	626.5	622.5	618.4
120°	703.0	700.4	696.6	692.8	688.9	685.1	681.6	678.4	675.2	672.1	668.9
122.5°	747.0	745.5	741.3	737.2	733.0	728.9	725.1	721.7	718.4	715.0	711.7
125°	808.9	807.4	803.4	799.4	795.3	791.3	787.9	785.1	782.4	779.6	776.8
127.5°	865.4	863.2	860.2	857.2	854.2	851.2	848.1	845.1	842.0	839.0	835.9
130°	901.5	899.2	896.8	894.5	892.1	889.8	886.9	883.5	880.2	876.8	873.4
132.5°	937.1	935.1	932.7	930.4	928.1	925.7	923.1	920.2	917.4	914.5	911.6
135°	987.3	985.2	983.2	981.3	979.4	977.5	974.9	971.5	968.1	964.7	961.3
137.5°	1034.1	1032.0	1029.8	1027.6	1025.5	1023.3	1021.0	1018.7	1016.3	1013.9	1011.5
140°	1064.5	1062.6	1060.2	1057.9	1055.5	1053.2	1051.2	1049.5	1047.8	1046.1	1044.4
142.5°	1092.6	1090.8	1088.2	1085.5	1082.8	1080.1	1078.0	1076.5	1075.0	1073.4	1071.9
145°	1131.9	1130.4	1126.8	1123.2	1119.6	1116.0	1114.3	1114.5	1114.7	1114.9	1115.1
147.5°	1166.3	1165.2	1161.6	1158.0	1154.5	1150.9	1149.5	1150.3	1151.1	1151.9	1152.8
150°	1187.1	1185.8	1182.4	1179.0	1175.6	1172.2	1171.3	1172.8	1174.2	1175.7	1177.2
152.5°	1206.2	1204.9	1201.7	1198.5	1195.2	1192.0	1191.2	1192.9	1194.5	1196.2	1197.9
155°	1232.0	1230.7	1228.2	1225.6	1223.1	1220.5	1220.2	1222.1	1224.0	1225.9	1227.9
157.5°	1253.6	1252.1	1250.3	1248.6	1246.8	1245.0	1244.9	1246.5	1248.1	1249.8	1251.4
160°	1266.4	1265.1	1263.9	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1
162.5°	1278.0	1276.6	1275.5	1274.4	1273.3	1272.2	1272.3	1273.5	1274.8	1276.1	1277.4
165°	1292.4	1290.9	1290.3	1289.6	1289.0	1288.4	1288.7	1290.0	1291.2	1292.5	1293.8
167.5°	1304.4	1303.0	1302.4	1301.8	1301.2	1300.6	1300.9	1302.2	1303.5	1304.7	1306.0
170°	1310.6	1309.1	1308.7	1308.2	1307.8	1307.4	1307.8	1309.1	1310.4	1311.6	1312.9
172.5°	1315.2	1313.7	1313.2	1312.8	1312.4	1312.0	1312.4	1313.7	1314.9	1316.2	1317.5
175°	1320.1	1318.6	1318.2	1317.8	1317.4	1316.9	1317.5	1319.0	1320.4	1321.9	1323.4
177.5°	1321.0	1319.8	1319.6	1319.4	1319.3	1319.1	1319.6	1320.8	1322.0	1323.2	1324.4
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331793

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1081.0	1081.9	1087.9	1090.6	1096.0	1098.1	1100.4	1099.8	1099.8	1101.0	1109.4
5°	1083.3	1090.8	1102.0	1112.8	1123.3	1132.3	1138.2	1144.2	1146.4	1157.3	1167.0
7.5°	1079.5	1093.2	1111.7	1128.2	1148.0	1163.5	1176.3	1187.9	1195.8	1211.6	1227.7
10°	1074.4	1093.8	1114.7	1136.0	1163.3	1183.8	1204.7	1220.8	1226.0	1249.5	1263.0
12.5°	1064.2	1090.2	1116.8	1144.4	1171.0	1199.3	1222.3	1238.4	1256.8	1277.9	1302.7
15°	1049.0	1078.9	1113.6	1149.1	1187.2	1221.5	1246.2	1274.2	1294.3	1317.5	1339.1
17.5°	1027.1	1065.6	1109.7	1150.8	1194.8	1231.7	1265.7	1292.5	1306.7	1319.9	1323.2
20°	1009.8	1051.2	1103.1	1151.7	1195.7	1238.3	1271.9	1294.3	1298.1	1298.4	1278.6
22.5°	991.0	1037.8	1092.1	1141.8	1194.5	1241.9	1268.0	1277.6	1262.8	1237.5	1199.2
25°	956.4	1010.5	1073.6	1130.4	1187.9	1232.7	1241.7	1224.9	1173.0	1118.4	1049.4
27.5°	918.9	979.7	1047.4	1110.5	1171.8	1199.6	1180.2	1119.6	1026.1	944.9	846.4
30°	891.4	959.7	1026.2	1096.8	1153.5	1165.5	1121.1	1031.8	922.8	800.3	702.1
32.5°	860.0	931.6	1004.7	1077.7	1125.2	1113.5	1040.1	930.2	802.4	682.0	589.1
35°	815.2	889.2	967.9	1041.1	1071.4	1021.0	911.2	768.2	637.5	525.1	461.2
37.5°	763.5	844.0	925.9	993.1	991.0	906.9	757.4	609.7	499.9	433.4	387.9
40°	726.7	808.1	896.6	953.4	929.1	819.7	657.6	518.3	438.0	385.0	351.8
42.5°	691.5	773.2	861.1	906.2	864.0	729.5	568.0	458.9	392.6	351.3	324.3
45°	631.5	717.7	799.2	824.2	748.7	600.5	459.3	380.2	336.1	305.5	286.8
47.5°	572.9	657.7	732.0	732.5	630.4	487.0	387.5	329.0	291.4	267.7	254.1
50°	537.0	617.7	680.0	670.3	554.6	433.2	346.5	296.1	264.8	246.5	232.3
52.5°	496.7	574.9	628.9	601.3	490.3	381.2	309.8	267.5	241.5	225.6	212.9
55°	438.0	507.5	545.6	503.8	400.0	317.0	261.8	228.5	209.1	195.7	184.9
57.5°	380.5	437.7	461.7	413.0	329.4	262.9	221.4	196.5	177.2	167.6	162.0
60°	344.3	393.2	410.0	356.3	286.4	230.0	196.1	172.9	158.7	152.4	146.8
62.5°	308.8	348.7	355.7	306.4	249.7	201.4	172.2	152.6	143.2	137.1	131.8
65°	256.2	284.9	281.6	242.0	197.5	159.8	138.5	126.6	119.5	110.9	101.6
67.5°	210.9	228.5	217.9	188.2	150.8	124.2	110.3	101.3	92.5	84.3	82.2
70°	182.2	192.3	181.1	153.9	123.6	104.2	93.0	82.2	76.9	75.1	71.7
72.5°	154.8	158.3	146.2	122.8	100.6	86.3	75.4	69.3	66.5	64.9	62.7
75°	116.1	113.5	103.1	84.8	69.8	60.1	56.8	54.5	52.7	51.2	50.0
77.5°	81.6	77.7	68.4	56.5	48.6	44.0	42.0	40.8	39.9	39.1	38.0
80°	61.2	58.6	49.3	40.3	37.0	34.7	33.6	32.1	32.1	31.4	30.2
82.5°	44.8	41.9	33.8	29.6	27.7	26.4	25.5	24.6	24.3	24.5	23.7
85°	23.5	19.0	16.8	16.1	14.9	14.2	14.6	13.8	13.8	13.8	13.4
87.5°	7.8	6.8	7.0	7.1	7.8	8.2	8.2	8.6	9.2	9.1	9.6
90°	3.3	5.6	8.0	10.3	12.3	14.0	15.7	17.4	19.1	20.2	21.2
92.5°	19.1	18.9	18.7	18.5	18.8	19.6	20.5	21.3	22.2	22.7	23.3
95°	55.1	48.1	41.1	34.1	31.3	32.8	34.3	35.8	37.3	38.3	39.4
97.5°	103.5	83.8	64.0	44.3	36.1	39.6	43.0	46.4	49.9	50.7	51.6
100°	140.0	110.9	81.9	52.8	40.0	43.6	47.2	50.9	54.5	56.2	57.9
102.5°	213.4	207.3	201.1	194.9	176.8	146.6	116.4	86.2	56.0	58.2	60.4
105°	296.9	303.2	309.6	316.0	290.2	232.2	174.2	116.3	58.3	60.6	63.0
107.5°	376.5	381.6	386.7	391.9	359.7	290.2	220.6	151.1	81.6	79.2	76.8
110°	427.8	432.2	436.7	441.1	412.7	351.3	290.0	228.6	167.2	146.0	124.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	476.2	480.1	484.1	488.0	482.4	467.3	452.1	436.9	421.8	344.3	266.8
115°	553.0	556.7	560.3	563.9	568.3	573.6	578.9	584.3	589.6	491.2	392.9
117.5°	622.5	626.5	630.5	634.6	638.4	642.1	645.7	649.4	653.0	629.2	605.4
120°	672.1	675.2	678.4	681.6	685.1	688.9	692.8	696.6	700.4	703.0	705.5
122.5°	715.0	718.4	721.7	725.1	728.9	733.0	737.2	741.3	745.5	747.0	748.6
125°	779.6	782.4	785.1	787.9	791.3	795.3	799.4	803.4	807.4	808.9	810.4
127.5°	839.0	842.0	845.1	848.1	851.2	854.2	857.2	860.2	863.2	865.4	867.6
130°	876.8	880.2	883.5	886.9	889.8	892.1	894.5	896.8	899.2	901.5	903.8
132.5°	914.5	917.4	920.2	923.1	925.7	928.1	930.4	932.7	935.1	937.1	939.1
135°	964.7	968.1	971.5	974.9	977.5	979.4	981.3	983.2	985.2	987.3	989.4
137.5°	1013.9	1016.3	1018.7	1021.0	1023.3	1025.5	1027.6	1029.8	1032.0	1034.1	1036.1
140°	1046.1	1047.8	1049.5	1051.2	1053.2	1055.5	1057.9	1060.2	1062.6	1064.5	1066.4
142.5°	1073.4	1075.0	1076.5	1078.0	1080.1	1082.8	1085.5	1088.2	1090.8	1092.6	1094.3
145°	1114.9	1114.7	1114.5	1114.3	1116.0	1119.6	1123.2	1126.8	1130.4	1131.9	1133.4
147.5°	1151.9	1151.1	1150.3	1149.5	1150.9	1154.5	1158.0	1161.6	1165.2	1166.3	1167.4
150°	1175.7	1174.2	1172.8	1171.3	1172.2	1175.6	1179.0	1182.4	1185.8	1187.1	1188.4
152.5°	1196.2	1194.5	1192.9	1191.2	1192.0	1195.2	1198.5	1201.7	1204.9	1206.2	1207.5
155°	1225.9	1224.0	1222.1	1220.2	1220.5	1223.1	1225.6	1228.2	1230.7	1232.0	1233.3
157.5°	1249.8	1248.1	1246.5	1244.9	1245.0	1246.8	1248.6	1250.3	1252.1	1253.6	1255.0
160°	1263.9	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1266.4	1267.7
162.5°	1276.1	1274.8	1273.5	1272.3	1272.2	1273.3	1274.4	1275.5	1276.6	1278.0	1279.5
165°	1292.5	1291.2	1290.0	1288.7	1288.4	1289.0	1289.6	1290.3	1290.9	1292.4	1293.9
167.5°	1304.7	1303.5	1302.2	1300.9	1300.6	1301.2	1301.8	1302.4	1303.0	1304.4	1305.9
170°	1311.6	1310.4	1309.1	1307.8	1307.4	1307.8	1308.2	1308.7	1309.1	1310.6	1312.1
172.5°	1316.2	1314.9	1313.7	1312.4	1312.0	1312.4	1312.8	1313.2	1313.7	1315.2	1316.6
175°	1321.9	1320.4	1319.0	1317.5	1316.9	1317.4	1317.8	1318.2	1318.6	1320.1	1321.6
177.5°	1323.2	1322.0	1320.8	1319.6	1319.1	1319.3	1319.4	1319.6	1319.8	1321.0	1322.2
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1112.4	1116.3	1118.1	1118.1	1120.2	1119.3	1118.4
5°	1176.3	1183.4	1184.9	1191.6	1196.5	1195.0	1195.7
7.5°	1239.9	1251.3	1262.6	1267.7	1268.6	1271.6	1272.7
10°	1279.0	1288.4	1305.9	1303.3	1316.4	1323.8	1311.5
12.5°	1316.7	1329.3	1341.5	1344.8	1352.2	1354.6	1349.7
15°	1350.7	1357.4	1358.2	1356.3	1358.6	1356.7	1349.6
17.5°	1318.9	1308.0	1285.9	1275.4	1267.1	1254.9	1250.0
20°	1266.3	1234.2	1196.9	1181.9	1164.4	1130.0	1138.2
22.5°	1152.8	1116.2	1078.9	1035.2	1014.4	981.8	979.9
25°	976.2	913.1	843.6	795.0	766.7	734.2	720.0
27.5°	759.0	679.5	622.6	593.8	567.5	541.8	540.7
30°	616.2	556.4	512.4	487.7	471.7	460.8	463.1
32.5°	519.4	478.4	448.7	428.3	416.4	408.2	408.1
35°	424.6	396.6	377.5	369.0	360.4	354.4	354.8
37.5°	363.4	346.5	335.9	326.5	321.1	318.2	316.5
40°	332.0	318.2	310.0	304.4	299.9	295.8	295.0
42.5°	307.2	295.8	287.5	283.1	279.0	276.0	275.3
45°	272.6	263.3	255.8	250.9	249.1	246.5	246.5
47.5°	242.5	233.3	227.5	224.4	221.2	219.5	219.4
50°	222.2	215.1	209.9	208.0	205.4	204.3	203.9
52.5°	204.0	198.7	194.9	193.7	192.5	191.1	191.3
55°	179.2	176.3	174.8	173.6	171.8	169.5	171.0
57.5°	158.4	155.9	151.8	148.3	146.6	145.0	145.6
60°	143.8	138.5	133.3	129.2	128.1	124.7	124.7
62.5°	125.3	117.9	111.5	109.2	108.1	106.5	106.2
65°	96.3	93.4	91.9	90.4	89.6	89.6	88.9
67.5°	79.8	78.6	77.0	76.6	75.9	75.7	75.4
70°	70.6	69.1	68.3	68.0	67.2	67.6	66.5
72.5°	61.6	60.4	60.3	59.3	58.9	58.9	58.1
75°	48.5	48.5	48.2	47.8	47.1	46.7	47.1
77.5°	37.3	37.4	36.7	36.7	36.6	36.7	36.3
80°	29.9	30.2	29.9	29.5	29.1	29.5	29.1
82.5°	23.6	23.1	23.0	22.9	22.9	22.6	22.6
85°	13.4	13.8	13.4	13.1	13.1	13.1	13.4
87.5°	9.5	9.8	9.9	10.0	10.1	10.2	9.9
90°	22.3	23.4	24.1	24.5	24.9	25.4	25.8
92.5°	23.8	24.4	24.8	25.0	25.3	25.5	25.8
95°	40.5	41.5	41.9	41.7	41.5	41.3	41.1
97.5°	52.4	53.3	53.8	54.1	54.3	54.6	54.8
100°	59.6	61.3	62.3	62.7	63.2	63.6	64.0
102.5°	62.6	64.8	66.2	66.8	67.4	68.0	68.6
105°	65.3	67.6	69.2	70.1	70.9	71.8	72.6
107.5°	74.5	72.1	71.3	72.2	73.0	73.9	74.7
110°	103.5	82.3	72.1	72.9	73.8	74.6	75.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	189.4	111.9	73.5	74.2	74.9	75.6	76.3
115°	294.6	196.3	139.5	124.2	108.9	93.6	78.4
117.5°	581.7	557.9	520.9	470.6	420.4	370.2	319.9
120°	708.0	710.6	697.5	668.9	640.2	611.5	582.9
122.5°	750.1	751.6	749.6	744.0	738.5	732.9	727.4
125°	811.9	813.4	814.4	815.1	815.7	816.3	817.0
127.5°	869.7	871.9	873.0	873.2	873.3	873.4	873.5
130°	906.2	908.5	909.6	909.3	909.1	908.9	908.7
132.5°	941.1	943.1	944.0	943.7	943.5	943.3	943.1
135°	991.5	993.6	994.5	994.1	993.6	993.2	992.8
137.5°	1038.2	1040.3	1041.0	1040.3	1039.5	1038.8	1038.1
140°	1068.3	1070.2	1070.6	1069.6	1068.5	1067.4	1066.4
142.5°	1096.1	1097.8	1098.1	1097.1	1096.0	1095.0	1093.9
145°	1134.9	1136.3	1136.6	1135.5	1134.4	1133.4	1132.3
147.5°	1168.5	1169.6	1169.7	1168.8	1167.9	1167.0	1166.1
150°	1189.6	1190.9	1191.0	1190.0	1188.9	1187.8	1186.8
152.5°	1208.7	1210.0	1210.0	1208.6	1207.2	1205.8	1204.4
155°	1234.5	1235.8	1235.6	1233.9	1232.2	1230.5	1228.8
157.5°	1256.5	1257.9	1257.8	1256.1	1254.5	1252.8	1251.2
160°	1268.9	1270.2	1270.1	1268.6	1267.1	1265.7	1264.2
162.5°	1280.9	1282.4	1282.2	1280.3	1278.5	1276.7	1274.9
165°	1295.4	1296.9	1296.9	1295.4	1293.9	1292.4	1290.9
167.5°	1307.4	1308.9	1308.7	1306.8	1304.9	1303.0	1301.1
170°	1313.5	1315.0	1314.8	1312.9	1311.0	1309.1	1307.2
172.5°	1318.1	1319.6	1319.4	1317.5	1315.6	1313.7	1311.8
175°	1323.1	1324.6	1324.3	1322.1	1320.0	1317.9	1315.8
177.5°	1323.3	1324.5	1324.4	1322.8	1321.3	1319.8	1318.3
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5

(END OF REPORT)