

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: P331802-930

Luminaire Tested: **S122RDIW-S485D1440U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331802-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S485D1440U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5592.8 lumens
Efficiency: N/A
Efficacy: 92.3 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

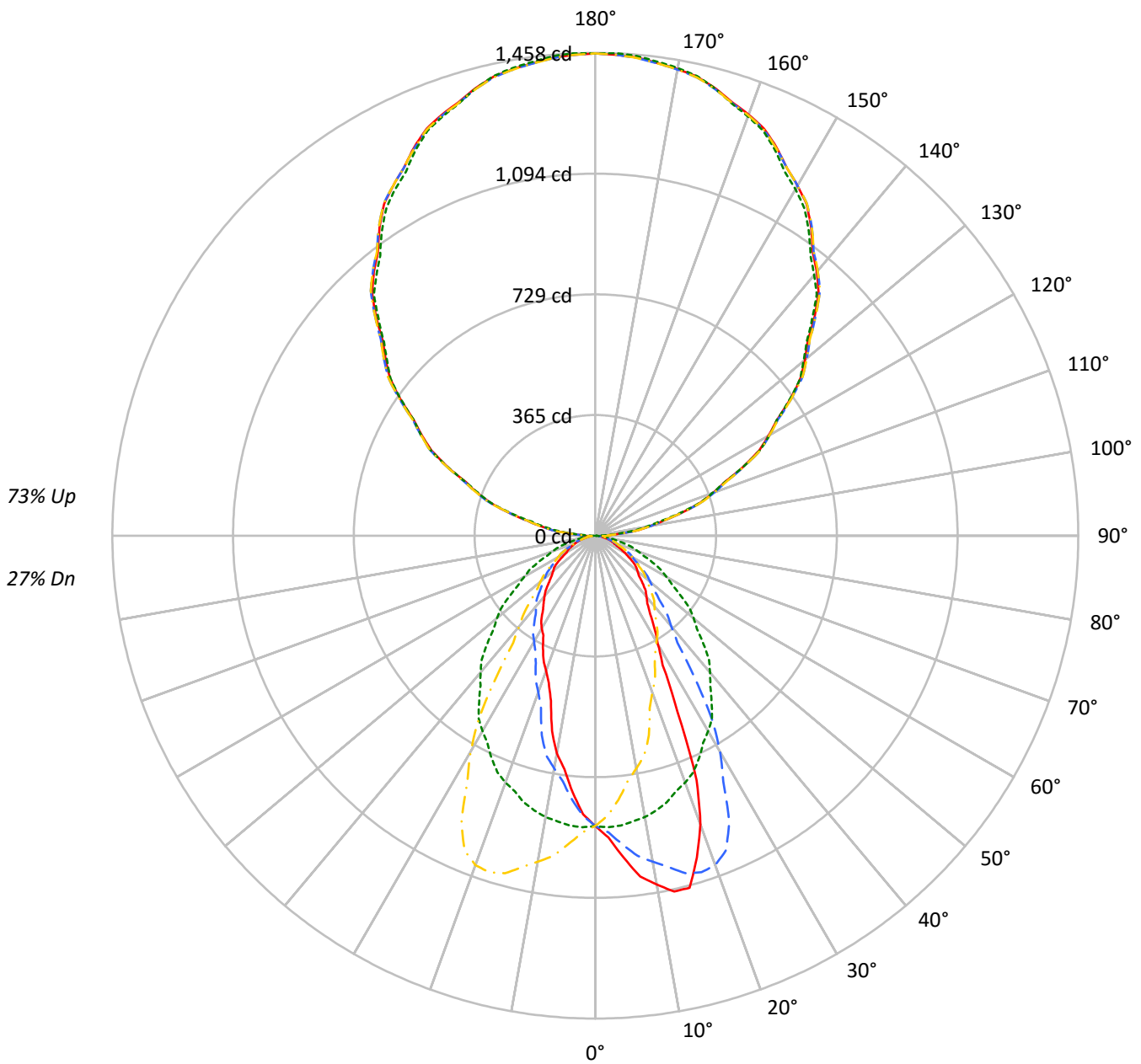
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	93	89	85	82	83	80	77	74	62	60	59	46	45	44	32	31	30	24
2	85	78	73	68	76	70	65	61	55	52	49	41	39	37	28	27	26	21
3	78	69	62	57	69	62	56	52	49	45	42	37	34	32	26	24	23	18
4	71	61	54	48	64	55	49	44	44	39	36	33	30	28	23	21	20	16
5	66	55	47	42	59	49	43	38	39	35	31	30	27	24	21	19	18	14
6	60	49	42	36	54	44	38	33	35	31	27	27	24	22	19	17	16	13
7	56	44	37	32	50	40	34	29	32	28	24	25	22	19	18	16	14	11
8	52	40	33	28	46	37	30	26	29	25	22	23	20	17	16	14	13	10
9	48	37	30	25	43	33	27	23	27	22	19	21	18	16	15	13	12	10
10	45	34	27	22	40	31	25	21	25	20	17	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14149	14149	14149	14149
5°	15801	14237	12624	14237
10°	17531	14137	10942	14137
15°	18392	13929	8622	13929
20°	15945	13622	7459	13622
25°	10457	13201	6661	13201
30°	7040	12693	6027	12693
35°	5702	12051	5436	12051
40°	5069	11352	5031	11352
45°	4590	10533	4491	10533
50°	4175	9718	4160	9718
55°	3924	8819	3873	8819
60°	3284	7992	3242	7992
65°	2770	7259	3140	7259
70°	2559	6482	2960	6482
75°	2395	5639	2739	5639
80°	2204	4640	2436	4640
85°	2019	3668	2149	3668



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	1.5
10°-20°	231.5	4.1
20°-30°	298.2	5.3
30°-40°	283.4	5.1
40°-50°	242.8	4.3
50°-60°	184.9	3.3
60°-70°	116.9	2.1
70°-80°	58.4	1.0
80°-90°	21.0	0.4
90°-100°	92.3	1.7
100°-110°	286.6	5.1
110°-120°	490.0	8.8
120°-130°	644.3	11.5
130°-140°	723.2	12.9
140°-150°	709.1	12.7
150°-160°	594.8	10.6
160°-170°	394.5	7.1
170°-180°	137.9	2.5
0°-30°	612.8	11.0
0°-40°	896.2	16.0
0°-60°	1323.9	23.7
0°-90°	1520.2	27.2
90°-120°	868.9	15.5
90°-150°	2945.5	52.7
90°-180°	4073.0	72.8
0°-180°	5592.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	876	876	876	876	876	
5°	975	878	779	878	975	96
15°	1100	833	516	833	1100	297
25°	587	741	374	741	587	279
35°	289	611	276	611	289	185
45°	201	461	197	461	201	156
55°	139	313	138	313	139	122
65°	72	190	82	190	72	74
75°	38	90	44	90	38	41
85°	11	20	12	20	11	13
90°	42	1	42	1	42	19
95°	76	64	76	64	76	85
105°	273	264	273	264	273	287
115°	492	492	492	492	492	486
125°	718	715	718	715	718	640
135°	937	926	937	926	937	721
145°	1136	1123	1136	1123	1136	709
155°	1294	1284	1294	1284	1294	596
165°	1399	1398	1399	1398	1399	394
175°	1449	1454	1449	1454	1449	138
180°	1456	1456	1456	1456	1456	



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	911.8	912.6	913.3	911.6	911.6	910.1	906.9	904.5	897.6	896.7	896.7
5°	974.9	974.3	975.5	971.5	966.0	964.8	959.0	951.5	943.5	934.7	932.9
7.5°	1037.6	1036.7	1034.3	1033.6	1029.4	1020.2	1010.9	1000.9	987.8	974.9	968.5
10°	1069.3	1079.3	1073.3	1062.6	1064.7	1050.4	1042.8	1029.7	1018.7	999.6	995.3
12.5°	1100.4	1104.4	1102.4	1096.4	1093.7	1083.8	1073.5	1062.1	1041.9	1024.7	1009.7
15°	1100.3	1106.1	1107.7	1105.8	1107.3	1106.7	1101.2	1091.8	1074.2	1055.2	1038.9
17.5°	1019.1	1023.1	1033.1	1039.8	1048.4	1066.4	1075.3	1078.8	1076.1	1065.4	1053.8
20°	928.0	921.3	949.3	963.6	975.8	1006.2	1032.4	1042.4	1058.6	1058.3	1055.2
22.5°	798.9	800.5	827.0	844.0	879.6	910.0	939.9	977.7	1008.9	1029.6	1041.6
25°	587.0	598.6	625.1	648.2	687.8	744.4	795.9	855.6	911.8	956.3	998.7
27.5°	440.8	441.7	462.7	484.1	507.6	554.0	618.8	690.1	770.4	836.6	912.8
30°	377.6	375.7	384.6	397.6	417.8	453.6	502.4	572.4	652.5	752.4	841.2
32.5°	332.7	332.8	339.5	349.2	365.8	390.0	423.5	480.3	556.0	654.2	758.4
35°	289.3	288.9	293.8	300.8	307.8	323.3	346.2	376.0	428.1	519.8	626.3
37.5°	258.0	259.4	261.8	266.2	273.9	282.5	296.3	316.3	353.4	407.6	497.1
40°	240.5	241.2	244.5	248.2	252.7	259.4	270.7	286.8	313.9	357.1	422.6
42.5°	224.5	225.0	227.5	230.8	234.4	241.2	250.5	264.4	286.4	320.1	374.1
45°	201.0	201.0	203.1	204.6	208.6	214.7	222.3	233.8	249.1	274.0	310.0
47.5°	178.9	179.0	180.3	183.0	185.5	190.2	197.7	207.2	218.3	237.6	268.2
50°	166.2	166.6	167.5	169.6	171.1	175.4	181.2	189.4	201.0	215.9	241.4
52.5°	156.0	155.8	156.9	157.9	158.9	162.0	166.3	173.6	183.9	196.9	218.1
55°	139.4	138.2	140.1	141.5	142.5	143.7	146.1	150.7	159.6	170.5	186.3
57.5°	118.7	118.2	119.5	120.9	123.8	127.1	129.1	132.1	136.6	144.5	160.2
60°	101.7	101.7	104.4	105.3	108.7	112.9	117.2	119.7	124.3	129.4	141.0
62.5°	86.6	86.8	88.1	89.0	90.9	96.1	102.2	107.5	111.8	116.8	124.4
65°	72.5	73.1	73.1	73.7	74.9	76.1	78.5	82.8	90.4	97.4	103.2
67.5°	61.5	61.7	61.9	62.5	62.8	64.1	65.1	67.0	68.7	75.4	82.6
70°	54.2	55.1	54.8	55.4	55.7	56.3	57.6	58.5	61.2	62.7	67.0
72.5°	47.4	48.0	48.0	48.3	49.2	49.2	50.2	51.1	52.9	54.2	56.5
75°	38.4	38.1	38.4	39.0	39.3	39.5	39.5	40.8	41.7	43.0	44.4
77.5°	29.6	29.9	29.8	29.9	29.9	30.5	30.4	31.0	31.9	32.5	33.3
80°	23.7	24.1	23.7	24.1	24.4	24.6	24.4	24.6	25.6	26.2	26.2
82.5°	18.4	18.4	18.7	18.7	18.8	18.8	19.2	19.3	20.0	19.8	20.1
85°	10.9	10.7	10.7	10.7	10.9	11.3	10.9	10.9	11.3	11.3	11.3
87.5°	12.2	12.5	12.4	12.3	12.3	12.3	12.4	12.8	12.6	13.0	11.6
90°	41.8	41.5	41.3	41.0	40.7	40.8	41.4	41.9	42.5	43.0	37.0
92.5°	39.8	39.8	39.7	39.6	39.6	39.5	39.4	39.3	39.2	39.1	37.7
95°	76.2	76.7	77.3	77.9	78.4	78.7	78.7	78.7	78.7	78.7	78.1
97.5°	132.0	132.1	132.1	132.2	132.2	132.2	132.2	132.2	132.2	132.2	131.2
100°	168.4	168.7	168.9	169.2	169.5	169.6	169.6	169.6	169.6	169.6	168.8
102.5°	209.7	209.9	210.3	210.5	210.8	210.8	210.6	210.3	210.2	209.9	208.9
105°	272.9	272.9	272.9	272.9	272.9	272.6	272.1	271.5	270.9	270.4	269.9
107.5°	332.3	333.6	334.8	336.1	337.4	337.9	337.7	337.5	337.2	337.0	337.0
110°	378.5	379.4	380.2	381.0	381.8	382.3	382.3	382.3	382.3	382.3	382.3



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	422.8	423.4	424.0	424.6	425.2	425.8	426.5	427.1	427.8	428.4	428.7
115°	491.6	492.4	493.3	494.1	494.9	495.5	495.7	496.0	496.3	496.6	497.1
117.5°	557.3	558.1	558.9	559.7	560.5	561.3	562.0	562.6	563.3	563.9	565.4
120°	603.5	604.3	605.1	605.9	606.7	607.2	607.2	607.2	607.2	607.2	609.4
122.5°	648.7	649.3	650.0	650.5	651.1	651.8	652.4	653.1	653.7	654.4	655.9
125°	717.8	718.1	718.4	718.6	718.9	719.4	720.2	721.1	721.9	722.7	723.6
127.5°	780.7	781.6	782.4	783.3	784.2	785.1	786.1	787.1	788.1	789.1	790.1
130°	826.0	827.0	828.2	829.2	830.3	831.1	831.7	832.3	832.8	833.3	833.9
132.5°	869.2	870.1	871.0	871.9	872.7	873.8	875.0	876.2	877.3	878.6	878.5
135°	936.6	937.4	938.2	939.1	939.9	940.4	940.7	940.9	941.3	941.5	940.9
137.5°	997.5	998.7	999.7	1000.9	1001.9	1002.6	1002.8	1003.0	1003.2	1003.5	1002.7
140°	1039.8	1040.9	1042.0	1043.1	1044.2	1044.7	1044.7	1044.7	1044.7	1044.7	1043.4
142.5°	1078.2	1079.3	1080.4	1081.5	1082.6	1083.0	1082.8	1082.6	1082.3	1082.1	1081.2
145°	1135.7	1136.8	1137.9	1139.0	1140.0	1140.4	1140.2	1140.0	1139.6	1139.4	1137.8
147.5°	1187.1	1188.1	1189.1	1190.2	1191.2	1191.5	1190.8	1190.3	1189.7	1189.0	1188.0
150°	1220.5	1221.3	1222.1	1222.9	1223.8	1223.8	1222.9	1222.1	1221.3	1220.5	1219.4
152.5°	1252.0	1253.0	1254.0	1255.1	1256.1	1256.1	1255.1	1254.0	1253.0	1252.0	1250.7
155°	1294.3	1295.1	1295.9	1296.7	1297.5	1297.2	1295.9	1294.5	1293.1	1291.8	1290.9
157.5°	1330.6	1332.0	1333.3	1334.6	1335.9	1335.6	1333.7	1331.9	1330.0	1328.2	1327.7
160°	1353.2	1354.4	1355.4	1356.5	1357.6	1357.3	1355.7	1354.0	1352.4	1350.8	1350.5
162.5°	1372.9	1374.3	1375.6	1376.9	1378.2	1377.9	1376.1	1374.2	1372.3	1370.4	1370.2
165°	1398.7	1400.1	1401.5	1402.8	1404.2	1403.9	1402.0	1400.1	1398.2	1396.3	1396.3
167.5°	1419.8	1421.3	1422.7	1424.2	1425.6	1425.3	1423.4	1421.5	1419.6	1417.6	1417.7
170°	1430.7	1432.3	1433.9	1435.6	1437.2	1437.1	1435.2	1433.3	1431.3	1429.5	1429.7
172.5°	1439.6	1441.2	1442.8	1444.5	1446.1	1445.9	1444.1	1442.1	1440.2	1438.3	1438.6
175°	1449.1	1450.7	1452.4	1454.0	1455.7	1455.6	1453.6	1451.7	1449.8	1447.9	1448.5
177.5°	1453.5	1454.8	1456.2	1457.5	1458.8	1458.8	1457.5	1456.2	1454.8	1453.5	1454.0
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	897.2	895.3	893.6	889.2	887.0	882.1	881.3	881.1	874.8	868.7	867.0
5°	928.0	923.2	915.8	907.3	898.5	889.3	883.2	878.4	866.2	854.6	847.9
7.5°	959.0	948.6	936.0	919.8	906.4	891.3	880.1	870.0	852.7	836.2	825.0
10°	982.2	965.2	948.4	926.2	908.8	891.8	876.0	862.3	842.8	820.8	805.3
12.5°	996.5	977.8	954.7	933.0	910.5	888.8	867.6	850.0	827.2	804.5	786.0
15°	1016.0	995.9	967.9	936.9	907.9	879.6	855.2	833.3	803.5	776.4	753.8
17.5°	1031.9	1004.2	974.1	938.2	904.7	868.8	837.4	809.3	776.2	743.5	717.0
20°	1037.0	1009.6	974.9	939.0	899.4	857.0	823.3	792.8	757.2	721.5	691.1
22.5°	1033.8	1012.5	973.9	930.9	890.4	846.1	808.0	772.6	733.1	696.8	661.5
25°	1012.4	1005.0	968.5	921.6	875.3	823.9	779.8	741.0	696.0	657.0	618.6
27.5°	962.2	978.0	955.4	905.4	853.9	798.7	749.2	705.2	658.4	614.5	576.3
30°	914.0	950.2	940.4	894.2	836.7	782.4	726.8	680.8	630.9	585.8	548.0
32.5°	848.0	907.8	917.4	878.6	819.1	759.5	701.2	655.4	603.3	555.8	519.0
35°	742.9	832.4	873.5	848.8	789.1	725.0	664.6	611.4	559.0	512.1	475.6
37.5°	617.5	739.4	808.0	809.7	754.9	688.1	622.5	569.6	515.9	469.9	430.4
40°	536.1	668.3	757.5	777.3	731.0	658.8	592.5	538.6	486.2	441.2	395.8
42.5°	463.1	594.8	704.4	738.8	702.1	630.4	563.8	507.4	456.5	413.8	367.5
45°	374.5	489.6	610.4	672.0	651.6	585.1	514.9	461.3	413.4	376.6	332.2
47.5°	315.9	397.1	514.0	597.2	596.8	536.2	467.1	415.7	371.4	336.9	300.8
50°	282.5	353.2	452.2	546.5	554.4	503.6	437.8	386.9	345.6	309.3	280.4
52.5°	252.6	310.8	399.7	490.2	512.7	468.7	405.0	358.0	317.8	284.5	259.7
55°	213.4	258.4	326.1	410.7	444.8	413.8	357.1	313.3	280.7	252.7	231.4
57.5°	180.5	214.3	268.6	336.7	376.4	356.9	310.2	274.6	246.7	221.4	204.6
60°	159.9	187.5	233.5	290.5	334.3	320.6	280.7	247.5	223.8	201.9	186.1
62.5°	140.4	164.2	203.6	249.8	290.0	284.3	251.8	223.9	203.1	183.1	169.7
65°	112.9	130.3	161.0	197.3	229.6	232.3	208.9	190.0	171.4	155.6	143.7
67.5°	89.9	101.3	122.9	153.4	177.7	186.3	171.9	157.5	142.8	130.5	120.3
70°	75.8	85.0	100.8	125.5	147.7	156.8	148.5	137.3	124.5	114.5	105.7
72.5°	61.5	70.4	82.0	100.1	119.2	129.1	126.2	118.1	107.7	99.4	91.1
75°	46.3	49.0	56.9	69.1	84.1	92.5	94.7	90.4	82.2	75.8	70.9
77.5°	34.2	35.9	39.6	46.1	55.8	63.3	66.5	66.0	60.3	56.7	52.1
80°	27.4	28.3	30.2	32.9	40.2	47.8	49.9	49.9	46.0	44.4	39.9
82.5°	20.8	21.5	22.6	24.1	27.6	34.2	36.5	37.0	34.5	32.5	28.9
85°	11.9	11.6	12.1	13.1	13.7	15.5	19.2	19.8	19.2	16.7	15.8
87.5°	10.4	9.4	8.2	7.0	6.6	6.2	6.8	7.3	7.0	6.9	7.1
90°	31.0	25.0	19.0	14.3	11.1	7.7	4.5	1.2	4.5	7.7	11.1
92.5°	36.3	34.8	33.4	31.5	29.1	26.7	24.3	21.9	24.3	26.7	29.1
95°	77.5	77.0	76.5	74.8	72.1	69.4	66.6	63.9	66.6	69.4	72.1
97.5°	130.2	129.1	128.1	126.4	124.0	121.6	119.2	116.8	119.2	121.6	124.0
100°	168.0	167.1	166.3	164.9	162.7	160.5	158.2	156.1	158.2	160.5	162.7
102.5°	207.8	206.8	205.8	204.4	202.6	200.9	199.2	197.4	199.2	200.9	202.6
105°	269.3	268.8	268.2	267.5	266.7	265.9	265.1	264.2	265.1	265.9	266.7
107.5°	337.0	337.0	337.0	336.4	335.3	334.0	332.8	331.6	332.8	334.0	335.3
110°	382.3	382.3	382.3	381.4	379.8	378.1	376.5	374.9	376.5	378.1	379.8



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	428.9	429.1	429.3	428.6	427.0	425.3	423.7	422.1	423.7	425.3	427.0
115°	497.7	498.2	498.7	498.2	496.6	494.9	493.3	491.6	493.3	494.9	496.6
117.5°	567.0	568.5	570.1	569.7	567.5	565.3	563.1	561.0	563.1	565.3	567.5
120°	611.6	613.8	616.0	616.0	613.8	611.6	609.4	607.2	609.4	611.6	613.8
122.5°	657.5	659.0	660.5	660.0	657.3	654.7	652.1	649.5	652.1	654.7	657.3
125°	724.4	725.2	726.0	725.2	722.7	720.2	717.8	715.3	717.8	720.2	722.7
127.5°	791.1	792.1	793.0	792.0	788.9	785.7	782.6	779.5	782.6	785.7	788.9
130°	834.5	834.9	835.5	834.1	830.5	827.0	823.4	819.8	823.4	827.0	830.5
132.5°	878.3	878.2	878.2	876.6	873.8	870.8	868.0	865.0	868.0	870.8	873.8
135°	940.4	939.9	939.3	937.5	934.5	931.6	928.5	925.5	928.5	931.6	934.5
137.5°	1002.0	1001.4	1000.6	999.0	996.5	994.1	991.6	989.2	991.6	994.1	996.5
140°	1042.0	1040.6	1039.3	1037.4	1034.9	1032.5	1030.0	1027.5	1030.0	1032.5	1034.9
142.5°	1080.3	1079.3	1078.4	1076.7	1074.2	1071.8	1069.3	1066.9	1069.3	1071.8	1074.2
145°	1136.1	1134.5	1132.9	1131.1	1129.1	1127.2	1125.4	1123.4	1125.4	1127.2	1129.1
147.5°	1186.8	1185.8	1184.7	1183.0	1180.7	1178.4	1176.1	1173.8	1176.1	1178.4	1180.7
150°	1218.3	1217.2	1216.1	1214.8	1213.2	1211.5	1209.8	1208.2	1209.8	1211.5	1213.2
152.5°	1249.4	1248.1	1246.8	1245.3	1243.6	1241.9	1240.3	1238.7	1240.3	1241.9	1243.6
155°	1290.1	1289.3	1288.5	1287.7	1286.9	1286.1	1285.2	1284.4	1285.2	1286.1	1286.9
157.5°	1327.2	1326.7	1326.2	1325.7	1325.2	1324.6	1324.0	1323.5	1324.0	1324.6	1325.2
160°	1350.2	1350.0	1349.7	1349.3	1348.7	1348.2	1347.7	1347.1	1347.7	1348.2	1348.7
162.5°	1369.9	1369.6	1369.4	1369.2	1369.1	1369.0	1368.9	1368.7	1368.9	1369.0	1369.1
165°	1396.3	1396.3	1396.3	1396.4	1396.7	1396.9	1397.3	1397.5	1397.3	1396.9	1396.7
167.5°	1417.8	1417.8	1417.9	1418.3	1419.1	1419.9	1420.7	1421.6	1420.7	1419.9	1419.1
170°	1430.0	1430.3	1430.5	1431.1	1431.9	1432.7	1433.5	1434.4	1433.5	1432.7	1431.9
172.5°	1438.8	1439.2	1439.4	1440.0	1440.8	1441.6	1442.4	1443.2	1442.4	1441.6	1440.8
175°	1448.9	1449.5	1450.1	1450.7	1451.6	1452.4	1453.2	1454.0	1453.2	1452.4	1451.6
177.5°	1454.4	1454.8	1455.3	1455.9	1456.5	1457.2	1457.8	1458.5	1457.8	1457.2	1456.5
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	863.8	862.1	858.9	854.1	851.2	846.0	842.6	844.6	845.1	844.6	844.1
5°	840.7	834.2	825.4	816.8	808.9	800.5	795.6	793.4	789.1	786.8	785.5
7.5°	812.5	801.5	789.0	774.2	761.6	748.4	741.6	738.3	729.5	724.8	720.6
10°	791.6	774.2	761.7	742.2	730.4	713.1	701.2	701.5	689.6	682.9	678.0
12.5°	768.5	749.4	728.6	711.1	694.6	680.7	666.3	660.6	647.9	641.5	628.4
15°	730.1	707.8	686.0	662.2	645.5	623.9	603.2	577.9	557.5	539.8	534.9
17.5°	688.2	660.7	638.7	610.8	582.1	545.8	521.8	507.1	494.8	485.5	478.6
20°	659.5	631.4	608.1	566.0	527.3	502.6	485.0	473.8	461.0	450.9	445.4
22.5°	629.2	600.1	568.1	521.1	491.1	471.2	455.5	442.5	433.9	426.1	421.1
25°	586.4	554.4	501.7	469.4	445.2	424.4	413.4	405.5	396.4	385.7	380.9
27.5°	541.1	490.2	452.4	428.4	405.2	391.8	381.9	370.1	361.9	357.1	352.0
30°	507.2	456.4	426.9	400.6	384.3	369.3	357.8	351.1	343.2	334.9	331.6
32.5°	469.4	428.8	400.6	378.8	362.1	349.4	340.2	329.4	323.7	318.6	311.6
35°	422.6	391.8	366.0	348.3	332.5	322.1	311.4	305.1	294.7	290.5	287.7
37.5°	382.9	356.2	336.9	318.3	305.7	294.3	287.8	277.6	273.1	267.2	261.4
40°	360.4	334.3	315.8	300.5	286.5	277.9	269.8	261.5	254.9	252.1	245.1
42.5°	337.6	316.3	297.7	281.0	271.7	262.6	252.3	246.2	239.2	234.8	230.5
45°	306.0	287.1	271.3	257.6	247.2	237.8	231.1	221.0	217.1	208.2	204.6
47.5°	278.2	260.7	245.6	232.5	222.4	216.3	206.5	198.6	192.3	186.9	182.2
50°	258.4	243.9	229.3	217.7	208.6	199.7	189.7	185.7	175.9	173.3	170.5
52.5°	240.4	226.6	213.2	201.9	192.7	184.2	175.3	170.2	163.5	160.8	158.8
55°	215.2	201.9	189.1	179.0	169.9	161.0	155.6	149.2	146.1	144.0	141.5
57.5°	189.9	177.9	168.0	157.9	148.7	141.7	135.3	131.5	128.3	125.6	122.6
60°	173.8	162.2	153.4	144.0	134.6	128.8	123.9	119.4	115.7	111.5	110.2
62.5°	156.8	146.7	138.6	129.4	121.2	115.9	111.3	107.0	102.6	96.4	94.7
65°	133.4	125.5	116.9	109.3	102.0	96.9	90.1	85.3	83.4	82.8	82.5
67.5°	112.2	104.7	97.3	89.6	82.9	78.1	74.7	73.9	72.7	72.3	71.5
70°	98.0	91.1	83.7	76.4	70.0	69.1	67.9	66.7	65.1	64.6	63.9
72.5°	85.4	78.1	70.8	65.0	62.2	61.1	59.8	58.6	57.6	57.0	56.7
75°	65.5	58.8	53.9	51.8	50.2	49.3	47.5	46.6	46.0	45.1	44.8
77.5°	47.1	43.4	41.1	39.8	38.2	37.2	36.2	35.2	34.6	34.4	33.9
80°	36.0	34.1	32.6	30.7	30.2	28.9	28.6	27.7	28.0	27.1	27.1
82.5°	27.9	25.6	24.3	23.5	22.8	21.9	21.5	21.1	21.2	20.5	20.5
85°	14.3	13.7	13.1	12.5	12.5	11.6	11.9	11.6	11.6	10.9	10.7
87.5°	7.5	8.2	8.9	10.1	11.3	12.2	12.1	11.8	11.7	11.6	11.3
90°	14.3	19.0	25.0	31.0	37.0	43.0	42.5	41.9	41.4	40.8	40.7
92.5°	31.5	33.4	34.8	36.3	37.7	39.1	39.2	39.3	39.4	39.5	39.6
95°	74.8	76.5	77.0	77.5	78.1	78.7	78.7	78.7	78.7	78.7	78.4
97.5°	126.4	128.1	129.1	130.2	131.2	132.2	132.2	132.2	132.2	132.2	132.2
100°	164.9	166.3	167.1	168.0	168.8	169.6	169.6	169.6	169.6	169.6	169.5
102.5°	204.4	205.8	206.8	207.8	208.9	209.9	210.2	210.3	210.6	210.8	210.8
105°	267.5	268.2	268.8	269.3	269.9	270.4	270.9	271.5	272.1	272.6	272.9
107.5°	336.4	337.0	337.0	337.0	337.0	337.0	337.2	337.5	337.7	337.9	337.4
110°	381.4	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	381.8



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	428.6	429.3	429.1	428.9	428.7	428.4	427.8	427.1	426.5	425.8	425.2
115°	498.2	498.7	498.2	497.7	497.1	496.6	496.3	496.0	495.7	495.5	494.9
117.5°	569.7	570.1	568.5	567.0	565.4	563.9	563.3	562.6	562.0	561.3	560.5
120°	616.0	616.0	613.8	611.6	609.4	607.2	607.2	607.2	607.2	607.2	606.7
122.5°	660.0	660.5	659.0	657.5	655.9	654.4	653.7	653.1	652.4	651.8	651.1
125°	725.2	726.0	725.2	724.4	723.6	722.7	721.9	721.1	720.2	719.4	718.9
127.5°	792.0	793.0	792.1	791.1	790.1	789.1	788.1	787.1	786.1	785.1	784.2
130°	834.1	835.5	834.9	834.5	833.9	833.3	832.8	832.3	831.7	831.1	830.3
132.5°	876.6	878.2	878.2	878.3	878.5	878.6	877.3	876.2	875.0	873.8	872.7
135°	937.5	939.3	939.9	940.4	940.9	941.5	941.3	940.9	940.7	940.4	939.9
137.5°	999.0	1000.6	1001.4	1002.0	1002.7	1003.5	1003.2	1003.0	1002.8	1002.6	1001.9
140°	1037.4	1039.3	1040.6	1042.0	1043.4	1044.7	1044.7	1044.7	1044.7	1044.7	1044.2
142.5°	1076.7	1078.4	1079.3	1080.3	1081.2	1082.1	1082.3	1082.6	1082.8	1083.0	1082.6
145°	1131.1	1132.9	1134.5	1136.1	1137.8	1139.4	1139.6	1140.0	1140.2	1140.4	1140.0
147.5°	1183.0	1184.7	1185.8	1186.8	1188.0	1189.0	1189.7	1190.3	1190.8	1191.5	1191.2
150°	1214.8	1216.1	1217.2	1218.3	1219.4	1220.5	1221.3	1222.1	1222.9	1223.8	1223.8
152.5°	1245.3	1246.8	1248.1	1249.4	1250.7	1252.0	1253.0	1254.0	1255.1	1256.1	1256.1
155°	1287.7	1288.5	1289.3	1290.1	1290.9	1291.8	1293.1	1294.5	1295.9	1297.2	1297.5
157.5°	1325.7	1326.2	1326.7	1327.2	1327.7	1328.2	1330.0	1331.9	1333.7	1335.6	1335.9
160°	1349.3	1349.7	1350.0	1350.2	1350.5	1350.8	1352.4	1354.0	1355.7	1357.3	1357.6
162.5°	1369.2	1369.4	1369.6	1369.9	1370.2	1370.4	1372.3	1374.2	1376.1	1377.9	1378.2
165°	1396.4	1396.3	1396.3	1396.3	1396.3	1396.3	1398.2	1400.1	1402.0	1403.9	1404.2
167.5°	1418.3	1417.9	1417.8	1417.8	1417.7	1417.6	1419.6	1421.5	1423.4	1425.3	1425.6
170°	1431.1	1430.5	1430.3	1430.0	1429.7	1429.5	1431.3	1433.3	1435.2	1437.1	1437.2
172.5°	1440.0	1439.4	1439.2	1438.8	1438.6	1438.3	1440.2	1442.1	1444.1	1445.9	1446.1
175°	1450.7	1450.1	1449.5	1448.9	1448.5	1447.9	1449.8	1451.7	1453.6	1455.6	1455.7
177.5°	1455.9	1455.3	1454.8	1454.4	1454.0	1453.5	1454.8	1456.2	1457.5	1458.8	1458.8
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	841.4	841.9	841.1	841.6	841.1	841.9	841.4	844.1	844.6	845.1	844.6
5°	784.0	780.3	779.8	778.9	779.8	780.3	784.0	785.5	786.8	789.1	793.4
7.5°	715.4	714.9	713.4	711.2	713.4	714.9	715.4	720.6	724.8	729.5	738.3
10°	671.3	669.8	669.5	667.4	669.5	669.8	671.3	678.0	682.9	689.6	701.5
12.5°	619.7	609.9	608.9	603.6	608.9	609.9	619.7	628.4	641.5	647.9	660.6
15°	527.7	525.8	519.8	515.8	519.8	525.8	527.7	534.9	539.8	557.5	577.9
17.5°	475.0	469.0	467.2	466.4	467.2	469.0	475.0	478.6	485.5	494.8	507.1
20°	441.2	435.7	434.8	434.1	434.8	435.7	441.2	445.4	450.9	461.0	473.8
22.5°	417.8	412.1	409.7	407.9	409.7	412.1	417.8	421.1	426.1	433.9	442.5
25°	377.8	375.7	374.5	373.9	374.5	375.7	377.8	380.9	385.7	396.4	405.5
27.5°	346.6	341.9	341.0	339.4	341.0	341.9	346.6	352.0	357.1	361.9	370.1
30°	328.8	327.3	325.1	323.3	325.1	327.3	328.8	331.6	334.9	343.2	351.1
32.5°	307.9	306.6	304.7	303.9	304.7	306.6	307.9	311.6	318.6	323.7	329.4
35°	284.7	280.4	278.6	275.8	278.6	280.4	284.7	287.7	290.5	294.7	305.1
37.5°	260.2	257.9	255.4	256.2	255.4	257.9	260.2	261.4	267.2	273.1	277.6
40°	241.2	239.6	239.0	238.7	239.0	239.6	241.2	245.1	252.1	254.9	261.5
42.5°	226.0	221.8	220.2	220.2	220.2	221.8	226.0	230.5	234.8	239.2	246.2
45°	203.1	199.1	196.4	196.7	196.4	199.1	203.1	204.6	208.2	217.1	221.0
47.5°	179.6	179.4	177.7	178.3	177.7	179.4	179.6	182.2	186.9	192.3	198.6
50°	168.4	166.6	165.3	165.6	165.3	166.6	168.4	170.5	173.3	175.9	185.7
52.5°	157.7	156.0	155.1	156.4	155.1	156.0	157.7	158.8	160.8	163.5	170.2
55°	140.1	138.2	137.9	137.6	137.9	138.2	140.1	141.5	144.0	146.1	149.2
57.5°	120.4	119.2	117.3	116.6	117.3	119.2	120.4	122.6	125.6	128.3	131.5
60°	106.2	103.8	100.8	100.4	100.8	103.8	106.2	110.2	111.5	115.7	119.4
62.5°	93.4	92.9	92.3	92.2	92.3	92.9	93.4	94.7	96.4	102.6	107.0
65°	81.9	81.6	81.9	82.2	81.9	81.6	81.9	82.5	82.8	83.4	85.3
67.5°	71.3	70.8	70.3	70.5	70.3	70.8	71.3	71.5	72.3	72.7	73.9
70°	63.3	63.0	62.7	62.7	62.7	63.0	63.3	63.9	64.6	65.1	66.7
72.5°	55.5	55.4	55.2	55.0	55.2	55.4	55.5	56.7	57.0	57.6	58.6
75°	44.4	43.9	43.9	43.9	43.9	43.9	44.4	44.8	45.1	46.0	46.6
77.5°	33.8	33.6	33.3	33.0	33.3	33.6	33.8	33.9	34.4	34.6	35.2
80°	26.8	26.5	26.2	26.2	26.2	26.5	26.8	27.1	27.1	28.0	27.7
82.5°	20.5	20.1	20.1	19.8	20.1	20.1	20.5	20.5	20.5	21.2	21.1
85°	10.9	11.3	10.9	11.6	10.9	11.3	10.9	10.7	10.9	11.6	11.6
87.5°	11.3	11.2	11.5	11.3	11.5	11.2	11.3	11.3	11.6	11.7	11.8
90°	41.0	41.3	41.5	41.8	41.5	41.3	41.0	40.7	40.8	41.4	41.9
92.5°	39.6	39.7	39.8	39.8	39.8	39.7	39.6	39.6	39.5	39.4	39.3
95°	77.9	77.3	76.7	76.2	76.7	77.3	77.9	78.4	78.7	78.7	78.7
97.5°	132.2	132.1	132.1	132.0	132.1	132.1	132.2	132.2	132.2	132.2	132.2
100°	169.2	168.9	168.7	168.4	168.7	168.9	169.2	169.5	169.6	169.6	169.6
102.5°	210.5	210.3	209.9	209.7	209.9	210.3	210.5	210.8	210.8	210.6	210.3
105°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.6	272.1	271.5
107.5°	336.1	334.8	333.6	332.3	333.6	334.8	336.1	337.4	337.9	337.7	337.5
110°	381.0	380.2	379.4	378.5	379.4	380.2	381.0	381.8	382.3	382.3	382.3



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	424.6	424.0	423.4	422.8	423.4	424.0	424.6	425.2	425.8	426.5	427.1
115°	494.1	493.3	492.4	491.6	492.4	493.3	494.1	494.9	495.5	495.7	496.0
117.5°	559.7	558.9	558.1	557.3	558.1	558.9	559.7	560.5	561.3	562.0	562.6
120°	605.9	605.1	604.3	603.5	604.3	605.1	605.9	606.7	607.2	607.2	607.2
122.5°	650.5	650.0	649.3	648.7	649.3	650.0	650.5	651.1	651.8	652.4	653.1
125°	718.6	718.4	718.1	717.8	718.1	718.4	718.6	718.9	719.4	720.2	721.1
127.5°	783.3	782.4	781.6	780.7	781.6	782.4	783.3	784.2	785.1	786.1	787.1
130°	829.2	828.2	827.0	826.0	827.0	828.2	829.2	830.3	831.1	831.7	832.3
132.5°	871.9	871.0	870.1	869.2	870.1	871.0	871.9	872.7	873.8	875.0	876.2
135°	939.1	938.2	937.4	936.6	937.4	938.2	939.1	939.9	940.4	940.7	940.9
137.5°	1000.9	999.7	998.7	997.5	998.7	999.7	1000.9	1001.9	1002.6	1002.8	1003.0
140°	1043.1	1042.0	1040.9	1039.8	1040.9	1042.0	1043.1	1044.2	1044.7	1044.7	1044.7
142.5°	1081.5	1080.4	1079.3	1078.2	1079.3	1080.4	1081.5	1082.6	1083.0	1082.8	1082.6
145°	1139.0	1137.9	1136.8	1135.7	1136.8	1137.9	1139.0	1140.0	1140.4	1140.2	1140.0
147.5°	1190.2	1189.1	1188.1	1187.1	1188.1	1189.1	1190.2	1191.2	1191.5	1190.8	1190.3
150°	1222.9	1222.1	1221.3	1220.5	1221.3	1222.1	1222.9	1223.8	1223.8	1222.9	1222.1
152.5°	1255.1	1254.0	1253.0	1252.0	1253.0	1254.0	1255.1	1256.1	1256.1	1255.1	1254.0
155°	1296.7	1295.9	1295.1	1294.3	1295.1	1295.9	1296.7	1297.5	1297.2	1295.9	1294.5
157.5°	1334.6	1333.3	1332.0	1330.6	1332.0	1333.3	1334.6	1335.9	1335.6	1333.7	1331.9
160°	1356.5	1355.4	1354.4	1353.2	1354.4	1355.4	1356.5	1357.6	1357.3	1355.7	1354.0
162.5°	1376.9	1375.6	1374.3	1372.9	1374.3	1375.6	1376.9	1378.2	1377.9	1376.1	1374.2
165°	1402.8	1401.5	1400.1	1398.7	1400.1	1401.5	1402.8	1404.2	1403.9	1402.0	1400.1
167.5°	1424.2	1422.7	1421.3	1419.8	1421.3	1422.7	1424.2	1425.6	1425.3	1423.4	1421.5
170°	1435.6	1433.9	1432.3	1430.7	1432.3	1433.9	1435.6	1437.2	1437.1	1435.2	1433.3
172.5°	1444.5	1442.8	1441.2	1439.6	1441.2	1442.8	1444.5	1446.1	1445.9	1444.1	1442.1
175°	1454.0	1452.4	1450.7	1449.1	1450.7	1452.4	1454.0	1455.7	1455.6	1453.6	1451.7
177.5°	1457.5	1456.2	1454.8	1453.5	1454.8	1456.2	1457.5	1458.8	1458.8	1457.5	1456.2
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	842.6	846.0	851.2	854.1	858.9	862.1	863.8	867.0	868.7	874.8	881.1
5°	795.6	800.5	808.9	816.8	825.4	834.2	840.7	847.9	854.6	866.2	878.4
7.5°	741.6	748.4	761.6	774.2	789.0	801.5	812.5	825.0	836.2	852.7	870.0
10°	701.2	713.1	730.4	742.2	761.7	774.2	791.6	805.3	820.8	842.8	862.3
12.5°	666.3	680.7	694.6	711.1	728.6	749.4	768.5	786.0	804.5	827.2	850.0
15°	603.2	623.9	645.5	662.2	686.0	707.8	730.1	753.8	776.4	803.5	833.3
17.5°	521.8	545.8	582.1	610.8	638.7	660.7	688.2	717.0	743.5	776.2	809.3
20°	485.0	502.6	527.3	566.0	608.1	631.4	659.5	691.1	721.5	757.2	792.8
22.5°	455.5	471.2	491.1	521.1	568.1	600.1	629.2	661.5	696.8	733.1	772.6
25°	413.4	424.4	445.2	469.4	501.7	554.4	586.4	618.6	657.0	696.0	741.0
27.5°	381.9	391.8	405.2	428.4	452.4	490.2	541.1	576.3	614.5	658.4	705.2
30°	357.8	369.3	384.3	400.6	426.9	456.4	507.2	548.0	585.8	630.9	680.8
32.5°	340.2	349.4	362.1	378.8	400.6	428.8	469.4	519.0	555.8	603.3	655.4
35°	311.4	322.1	332.5	348.3	366.0	391.8	422.6	475.6	512.1	559.0	611.4
37.5°	287.8	294.3	305.7	318.3	336.9	356.2	382.9	430.4	469.9	515.9	569.6
40°	269.8	277.9	286.5	300.5	315.8	334.3	360.4	395.8	441.2	486.2	538.6
42.5°	252.3	262.6	271.7	281.0	297.7	316.3	337.6	367.5	413.8	456.5	507.4
45°	231.1	237.8	247.2	257.6	271.3	287.1	306.0	332.2	376.6	413.4	461.3
47.5°	206.5	216.3	222.4	232.5	245.6	260.7	278.2	300.8	336.9	371.4	415.7
50°	189.7	199.7	208.6	217.7	229.3	243.9	258.4	280.4	309.3	345.6	386.9
52.5°	175.3	184.2	192.7	201.9	213.2	226.6	240.4	259.7	284.5	317.8	358.0
55°	155.6	161.0	169.9	179.0	189.1	201.9	215.2	231.4	252.7	280.7	313.3
57.5°	135.3	141.7	148.7	157.9	168.0	177.9	189.9	204.6	221.4	246.7	274.6
60°	123.9	128.8	134.6	144.0	153.4	162.2	173.8	186.1	201.9	223.8	247.5
62.5°	111.3	115.9	121.2	129.4	138.6	146.7	156.8	169.7	183.1	203.1	223.9
65°	90.1	96.9	102.0	109.3	116.9	125.5	133.4	143.7	155.6	171.4	190.0
67.5°	74.7	78.1	82.9	89.6	97.3	104.7	112.2	120.3	130.5	142.8	157.5
70°	67.9	69.1	70.0	76.4	83.7	91.1	98.0	105.7	114.5	124.5	137.3
72.5°	59.8	61.1	62.2	65.0	70.8	78.1	85.4	91.1	99.4	107.7	118.1
75°	47.5	49.3	50.2	51.8	53.9	58.8	65.5	70.9	75.8	82.2	90.4
77.5°	36.2	37.2	38.2	39.8	41.1	43.4	47.1	52.1	56.7	60.3	66.0
80°	28.6	28.9	30.2	30.7	32.6	34.1	36.0	39.9	44.4	46.0	49.9
82.5°	21.5	21.9	22.8	23.5	24.3	25.6	27.9	28.9	32.5	34.5	37.0
85°	11.9	11.6	12.5	12.5	13.1	13.7	14.3	15.8	16.7	19.2	19.8
87.5°	12.1	12.2	11.3	10.1	8.9	8.2	7.5	7.1	6.9	7.0	7.3
90°	42.5	43.0	37.0	31.0	25.0	19.0	14.3	11.1	7.7	4.5	1.2
92.5°	39.2	39.1	37.7	36.3	34.8	33.4	31.5	29.1	26.7	24.3	21.9
95°	78.7	78.7	78.1	77.5	77.0	76.5	74.8	72.1	69.4	66.6	63.9
97.5°	132.2	132.2	131.2	130.2	129.1	128.1	126.4	124.0	121.6	119.2	116.8
100°	169.6	169.6	168.8	168.0	167.1	166.3	164.9	162.7	160.5	158.2	156.1
102.5°	210.2	209.9	208.9	207.8	206.8	205.8	204.4	202.6	200.9	199.2	197.4
105°	270.9	270.4	269.9	269.3	268.8	268.2	267.5	266.7	265.9	265.1	264.2
107.5°	337.2	337.0	337.0	337.0	337.0	337.0	336.4	335.3	334.0	332.8	331.6
110°	382.3	382.3	382.3	382.3	382.3	382.3	381.4	379.8	378.1	376.5	374.9



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	427.8	428.4	428.7	428.9	429.1	429.3	428.6	427.0	425.3	423.7	422.1
115°	496.3	496.6	497.1	497.7	498.2	498.7	498.2	496.6	494.9	493.3	491.6
117.5°	563.3	563.9	565.4	567.0	568.5	570.1	569.7	567.5	565.3	563.1	561.0
120°	607.2	607.2	609.4	611.6	613.8	616.0	616.0	613.8	611.6	609.4	607.2
122.5°	653.7	654.4	655.9	657.5	659.0	660.5	660.0	657.3	654.7	652.1	649.5
125°	721.9	722.7	723.6	724.4	725.2	726.0	725.2	722.7	720.2	717.8	715.3
127.5°	788.1	789.1	790.1	791.1	792.1	793.0	792.0	788.9	785.7	782.6	779.5
130°	832.8	833.3	833.9	834.5	834.9	835.5	834.1	830.5	827.0	823.4	819.8
132.5°	877.3	878.6	878.5	878.3	878.2	878.2	876.6	873.8	870.8	868.0	865.0
135°	941.3	941.5	940.9	940.4	939.9	939.3	937.5	934.5	931.6	928.5	925.5
137.5°	1003.2	1003.5	1002.7	1002.0	1001.4	1000.6	999.0	996.5	994.1	991.6	989.2
140°	1044.7	1044.7	1043.4	1042.0	1040.6	1039.3	1037.4	1034.9	1032.5	1030.0	1027.5
142.5°	1082.3	1082.1	1081.2	1080.3	1079.3	1078.4	1076.7	1074.2	1071.8	1069.3	1066.9
145°	1139.6	1139.4	1137.8	1136.1	1134.5	1132.9	1131.1	1129.1	1127.2	1125.4	1123.4
147.5°	1189.7	1189.0	1188.0	1186.8	1185.8	1184.7	1183.0	1180.7	1178.4	1176.1	1173.8
150°	1221.3	1220.5	1219.4	1218.3	1217.2	1216.1	1214.8	1213.2	1211.5	1209.8	1208.2
152.5°	1253.0	1252.0	1250.7	1249.4	1248.1	1246.8	1245.3	1243.6	1241.9	1240.3	1238.7
155°	1293.1	1291.8	1290.9	1290.1	1289.3	1288.5	1287.7	1286.9	1286.1	1285.2	1284.4
157.5°	1330.0	1328.2	1327.7	1327.2	1326.7	1326.2	1325.7	1325.2	1324.6	1324.0	1323.5
160°	1352.4	1350.8	1350.5	1350.2	1350.0	1349.7	1349.3	1348.7	1348.2	1347.7	1347.1
162.5°	1372.3	1370.4	1370.2	1369.9	1369.6	1369.4	1369.2	1369.1	1369.0	1368.9	1368.7
165°	1398.2	1396.3	1396.3	1396.3	1396.3	1396.3	1396.4	1396.7	1396.9	1397.3	1397.5
167.5°	1419.6	1417.6	1417.7	1417.8	1417.8	1417.9	1418.3	1419.1	1419.9	1420.7	1421.6
170°	1431.3	1429.5	1429.7	1430.0	1430.3	1430.5	1431.1	1431.9	1432.7	1433.5	1434.4
172.5°	1440.2	1438.3	1438.6	1438.8	1439.2	1439.4	1440.0	1440.8	1441.6	1442.4	1443.2
175°	1449.8	1447.9	1448.5	1448.9	1449.5	1450.1	1450.7	1451.6	1452.4	1453.2	1454.0
177.5°	1454.8	1453.5	1454.0	1454.4	1454.8	1455.3	1455.9	1456.5	1457.2	1457.8	1458.5
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	881.3	882.1	887.0	889.2	893.6	895.3	897.2	896.7	896.7	897.6	904.5
5°	883.2	889.3	898.5	907.3	915.8	923.2	928.0	932.9	934.7	943.5	951.5
7.5°	880.1	891.3	906.4	919.8	936.0	948.6	959.0	968.5	974.9	987.8	1000.9
10°	876.0	891.8	908.8	926.2	948.4	965.2	982.2	995.3	999.6	1018.7	1029.7
12.5°	867.6	888.8	910.5	933.0	954.7	977.8	996.5	1009.7	1024.7	1041.9	1062.1
15°	855.2	879.6	907.9	936.9	967.9	995.9	1016.0	1038.9	1055.2	1074.2	1091.8
17.5°	837.4	868.8	904.7	938.2	974.1	1004.2	1031.9	1053.8	1065.4	1076.1	1078.8
20°	823.3	857.0	899.4	939.0	974.9	1009.6	1037.0	1055.2	1058.3	1058.6	1042.4
22.5°	808.0	846.1	890.4	930.9	973.9	1012.5	1033.8	1041.6	1029.6	1008.9	977.7
25°	779.8	823.9	875.3	921.6	968.5	1005.0	1012.4	998.7	956.3	911.8	855.6
27.5°	749.2	798.7	853.9	905.4	955.4	978.0	962.2	912.8	836.6	770.4	690.1
30°	726.8	782.4	836.7	894.2	940.4	950.2	914.0	841.2	752.4	652.5	572.4
32.5°	701.2	759.5	819.1	878.6	917.4	907.8	848.0	758.4	654.2	556.0	480.3
35°	664.6	725.0	789.1	848.8	873.5	832.4	742.9	626.3	519.8	428.1	376.0
37.5°	622.5	688.1	754.9	809.7	808.0	739.4	617.5	497.1	407.6	353.4	316.3
40°	592.5	658.8	731.0	777.3	757.5	668.3	536.1	422.6	357.1	313.9	286.8
42.5°	563.8	630.4	702.1	738.8	704.4	594.8	463.1	374.1	320.1	286.4	264.4
45°	514.9	585.1	651.6	672.0	610.4	489.6	374.5	310.0	274.0	249.1	233.8
47.5°	467.1	536.2	596.8	597.2	514.0	397.1	315.9	268.2	237.6	218.3	207.2
50°	437.8	503.6	554.4	546.5	452.2	353.2	282.5	241.4	215.9	201.0	189.4
52.5°	405.0	468.7	512.7	490.2	399.7	310.8	252.6	218.1	196.9	183.9	173.6
55°	357.1	413.8	444.8	410.7	326.1	258.4	213.4	186.3	170.5	159.6	150.7
57.5°	310.2	356.9	376.4	336.7	268.6	214.3	180.5	160.2	144.5	136.6	132.1
60°	280.7	320.6	334.3	290.5	233.5	187.5	159.9	141.0	129.4	124.3	119.7
62.5°	251.8	284.3	290.0	249.8	203.6	164.2	140.4	124.4	116.8	111.8	107.5
65°	208.9	232.3	229.6	197.3	161.0	130.3	112.9	103.2	97.4	90.4	82.8
67.5°	171.9	186.3	177.7	153.4	122.9	101.3	89.9	82.6	75.4	68.7	67.0
70°	148.5	156.8	147.7	125.5	100.8	85.0	75.8	67.0	62.7	61.2	58.5
72.5°	126.2	129.1	119.2	100.1	82.0	70.4	61.5	56.5	54.2	52.9	51.1
75°	94.7	92.5	84.1	69.1	56.9	49.0	46.3	44.4	43.0	41.7	40.8
77.5°	66.5	63.3	55.8	46.1	39.6	35.9	34.2	33.3	32.5	31.9	31.0
80°	49.9	47.8	40.2	32.9	30.2	28.3	27.4	26.2	26.2	25.6	24.6
82.5°	36.5	34.2	27.6	24.1	22.6	21.5	20.8	20.1	19.8	20.0	19.3
85°	19.2	15.5	13.7	13.1	12.1	11.6	11.9	11.3	11.3	11.3	10.9
87.5°	6.8	6.2	6.6	7.0	8.2	9.4	10.4	11.6	13.0	12.6	12.8
90°	4.5	7.7	11.1	14.3	19.0	25.0	31.0	37.0	43.0	42.5	41.9
92.5°	24.3	26.7	29.1	31.5	33.4	34.8	36.3	37.7	39.1	39.2	39.3
95°	66.6	69.4	72.1	74.8	76.5	77.0	77.5	78.1	78.7	78.7	78.7
97.5°	119.2	121.6	124.0	126.4	128.1	129.1	130.2	131.2	132.2	132.2	132.2
100°	158.2	160.5	162.7	164.9	166.3	167.1	168.0	168.8	169.6	169.6	169.6
102.5°	199.2	200.9	202.6	204.4	205.8	206.8	207.8	208.9	209.9	210.2	210.3
105°	265.1	265.9	266.7	267.5	268.2	268.8	269.3	269.9	270.4	270.9	271.5
107.5°	332.8	334.0	335.3	336.4	337.0	337.0	337.0	337.0	337.0	337.2	337.5
110°	376.5	378.1	379.8	381.4	382.3	382.3	382.3	382.3	382.3	382.3	382.3



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	423.7	425.3	427.0	428.6	429.3	429.1	428.9	428.7	428.4	427.8	427.1
115°	493.3	494.9	496.6	498.2	498.7	498.2	497.7	497.1	496.6	496.3	496.0
117.5°	563.1	565.3	567.5	569.7	570.1	568.5	567.0	565.4	563.9	563.3	562.6
120°	609.4	611.6	613.8	616.0	616.0	613.8	611.6	609.4	607.2	607.2	607.2
122.5°	652.1	654.7	657.3	660.0	660.5	659.0	657.5	655.9	654.4	653.7	653.1
125°	717.8	720.2	722.7	725.2	726.0	725.2	724.4	723.6	722.7	721.9	721.1
127.5°	782.6	785.7	788.9	792.0	793.0	792.1	791.1	790.1	789.1	788.1	787.1
130°	823.4	827.0	830.5	834.1	835.5	834.9	834.5	833.9	833.3	832.8	832.3
132.5°	868.0	870.8	873.8	876.6	878.2	878.2	878.3	878.5	878.6	877.3	876.2
135°	928.5	931.6	934.5	937.5	939.3	939.9	940.4	940.9	941.5	941.3	940.9
137.5°	991.6	994.1	996.5	999.0	1000.6	1001.4	1002.0	1002.7	1003.5	1003.2	1003.0
140°	1030.0	1032.5	1034.9	1037.4	1039.3	1040.6	1042.0	1043.4	1044.7	1044.7	1044.7
142.5°	1069.3	1071.8	1074.2	1076.7	1078.4	1079.3	1080.3	1081.2	1082.1	1082.3	1082.6
145°	1125.4	1127.2	1129.1	1131.1	1132.9	1134.5	1136.1	1137.8	1139.4	1139.6	1140.0
147.5°	1176.1	1178.4	1180.7	1183.0	1184.7	1185.8	1186.8	1188.0	1189.0	1189.7	1190.3
150°	1209.8	1211.5	1213.2	1214.8	1216.1	1217.2	1218.3	1219.4	1220.5	1221.3	1222.1
152.5°	1240.3	1241.9	1243.6	1245.3	1246.8	1248.1	1249.4	1250.7	1252.0	1253.0	1254.0
155°	1285.2	1286.1	1286.9	1287.7	1288.5	1289.3	1290.1	1290.9	1291.8	1293.1	1294.5
157.5°	1324.0	1324.6	1325.2	1325.7	1326.2	1326.7	1327.2	1327.7	1328.2	1330.0	1331.9
160°	1347.7	1348.2	1348.7	1349.3	1349.7	1350.0	1350.2	1350.5	1350.8	1352.4	1354.0
162.5°	1368.9	1369.0	1369.1	1369.2	1369.4	1369.6	1369.9	1370.2	1370.4	1372.3	1374.2
165°	1397.3	1396.9	1396.7	1396.4	1396.3	1396.3	1396.3	1396.3	1396.3	1398.2	1400.1
167.5°	1420.7	1419.9	1419.1	1418.3	1417.9	1417.8	1417.8	1417.7	1417.6	1419.6	1421.5
170°	1433.5	1432.7	1431.9	1431.1	1430.5	1430.3	1430.0	1429.7	1429.5	1431.3	1433.3
172.5°	1442.4	1441.6	1440.8	1440.0	1439.4	1439.2	1438.8	1438.6	1438.3	1440.2	1442.1
175°	1453.2	1452.4	1451.6	1450.7	1450.1	1449.5	1448.9	1448.5	1447.9	1449.8	1451.7
177.5°	1457.8	1457.2	1456.5	1455.9	1455.3	1454.8	1454.4	1454.0	1453.5	1454.8	1456.2
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	906.9	910.1	911.6	911.6	913.3	912.6	911.8
5°	959.0	964.8	966.0	971.5	975.5	974.3	974.9
7.5°	1010.9	1020.2	1029.4	1033.6	1034.3	1036.7	1037.6
10°	1042.8	1050.4	1064.7	1062.6	1073.3	1079.3	1069.3
12.5°	1073.5	1083.8	1093.7	1096.4	1102.4	1104.4	1100.4
15°	1101.2	1106.7	1107.3	1105.8	1107.7	1106.1	1100.3
17.5°	1075.3	1066.4	1048.4	1039.8	1033.1	1023.1	1019.1
20°	1032.4	1006.2	975.8	963.6	949.3	921.3	928.0
22.5°	939.9	910.0	879.6	844.0	827.0	800.5	798.9
25°	795.9	744.4	687.8	648.2	625.1	598.6	587.0
27.5°	618.8	554.0	507.6	484.1	462.7	441.7	440.8
30°	502.4	453.6	417.8	397.6	384.6	375.7	377.6
32.5°	423.5	390.0	365.8	349.2	339.5	332.8	332.7
35°	346.2	323.3	307.8	300.8	293.8	288.9	289.3
37.5°	296.3	282.5	273.9	266.2	261.8	259.4	258.0
40°	270.7	259.4	252.7	248.2	244.5	241.2	240.5
42.5°	250.5	241.2	234.4	230.8	227.5	225.0	224.5
45°	222.3	214.7	208.6	204.6	203.1	201.0	201.0
47.5°	197.7	190.2	185.5	183.0	180.3	179.0	178.9
50°	181.2	175.4	171.1	169.6	167.5	166.6	166.2
52.5°	166.3	162.0	158.9	157.9	156.9	155.8	156.0
55°	146.1	143.7	142.5	141.5	140.1	138.2	139.4
57.5°	129.1	127.1	123.8	120.9	119.5	118.2	118.7
60°	117.2	112.9	108.7	105.3	104.4	101.7	101.7
62.5°	102.2	96.1	90.9	89.0	88.1	86.8	86.6
65°	78.5	76.1	74.9	73.7	73.1	73.1	72.5
67.5°	65.1	64.1	62.8	62.5	61.9	61.7	61.5
70°	57.6	56.3	55.7	55.4	54.8	55.1	54.2
72.5°	50.2	49.2	49.2	48.3	48.0	48.0	47.4
75°	39.5	39.5	39.3	39.0	38.4	38.1	38.4
77.5°	30.4	30.5	29.9	29.9	29.8	29.9	29.6
80°	24.4	24.6	24.4	24.1	23.7	24.1	23.7
82.5°	19.2	18.8	18.8	18.7	18.7	18.4	18.4
85°	10.9	11.3	10.9	10.7	10.7	10.7	10.9
87.5°	12.4	12.3	12.3	12.3	12.4	12.5	12.2
90°	41.4	40.8	40.7	41.0	41.3	41.5	41.8
92.5°	39.4	39.5	39.6	39.6	39.7	39.8	39.8
95°	78.7	78.7	78.4	77.9	77.3	76.7	76.2
97.5°	132.2	132.2	132.2	132.2	132.1	132.1	132.0
100°	169.6	169.6	169.5	169.2	168.9	168.7	168.4
102.5°	210.6	210.8	210.8	210.5	210.3	209.9	209.7
105°	272.1	272.6	272.9	272.9	272.9	272.9	272.9
107.5°	337.7	337.9	337.4	336.1	334.8	333.6	332.3
110°	382.3	382.3	381.8	381.0	380.2	379.4	378.5



TEST NUMBER: P331802-930

CATALOG NUMBER: S122RDIW-S485D1440U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	426.5	425.8	425.2	424.6	424.0	423.4	422.8
115°	495.7	495.5	494.9	494.1	493.3	492.4	491.6
117.5°	562.0	561.3	560.5	559.7	558.9	558.1	557.3
120°	607.2	607.2	606.7	605.9	605.1	604.3	603.5
122.5°	652.4	651.8	651.1	650.5	650.0	649.3	648.7
125°	720.2	719.4	718.9	718.6	718.4	718.1	717.8
127.5°	786.1	785.1	784.2	783.3	782.4	781.6	780.7
130°	831.7	831.1	830.3	829.2	828.2	827.0	826.0
132.5°	875.0	873.8	872.7	871.9	871.0	870.1	869.2
135°	940.7	940.4	939.9	939.1	938.2	937.4	936.6
137.5°	1002.8	1002.6	1001.9	1000.9	999.7	998.7	997.5
140°	1044.7	1044.7	1044.2	1043.1	1042.0	1040.9	1039.8
142.5°	1082.8	1083.0	1082.6	1081.5	1080.4	1079.3	1078.2
145°	1140.2	1140.4	1140.0	1139.0	1137.9	1136.8	1135.7
147.5°	1190.8	1191.5	1191.2	1190.2	1189.1	1188.1	1187.1
150°	1222.9	1223.8	1223.8	1222.9	1222.1	1221.3	1220.5
152.5°	1255.1	1256.1	1256.1	1255.1	1254.0	1253.0	1252.0
155°	1295.9	1297.2	1297.5	1296.7	1295.9	1295.1	1294.3
157.5°	1333.7	1335.6	1335.9	1334.6	1333.3	1332.0	1330.6
160°	1355.7	1357.3	1357.6	1356.5	1355.4	1354.4	1353.2
162.5°	1376.1	1377.9	1378.2	1376.9	1375.6	1374.3	1372.9
165°	1402.0	1403.9	1404.2	1402.8	1401.5	1400.1	1398.7
167.5°	1423.4	1425.3	1425.6	1424.2	1422.7	1421.3	1419.8
170°	1435.2	1437.1	1437.2	1435.6	1433.9	1432.3	1430.7
172.5°	1444.1	1445.9	1446.1	1444.5	1442.8	1441.2	1439.6
175°	1453.6	1455.6	1455.7	1454.0	1452.4	1450.7	1449.1
177.5°	1457.5	1458.8	1458.8	1457.5	1456.2	1454.8	1453.5
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5

(END OF REPORT)