

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: P331802-830

Luminaire Tested: **S122RDIW-S485D1440U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331802-830  
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-S485D1440U830-4F0-1E-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**

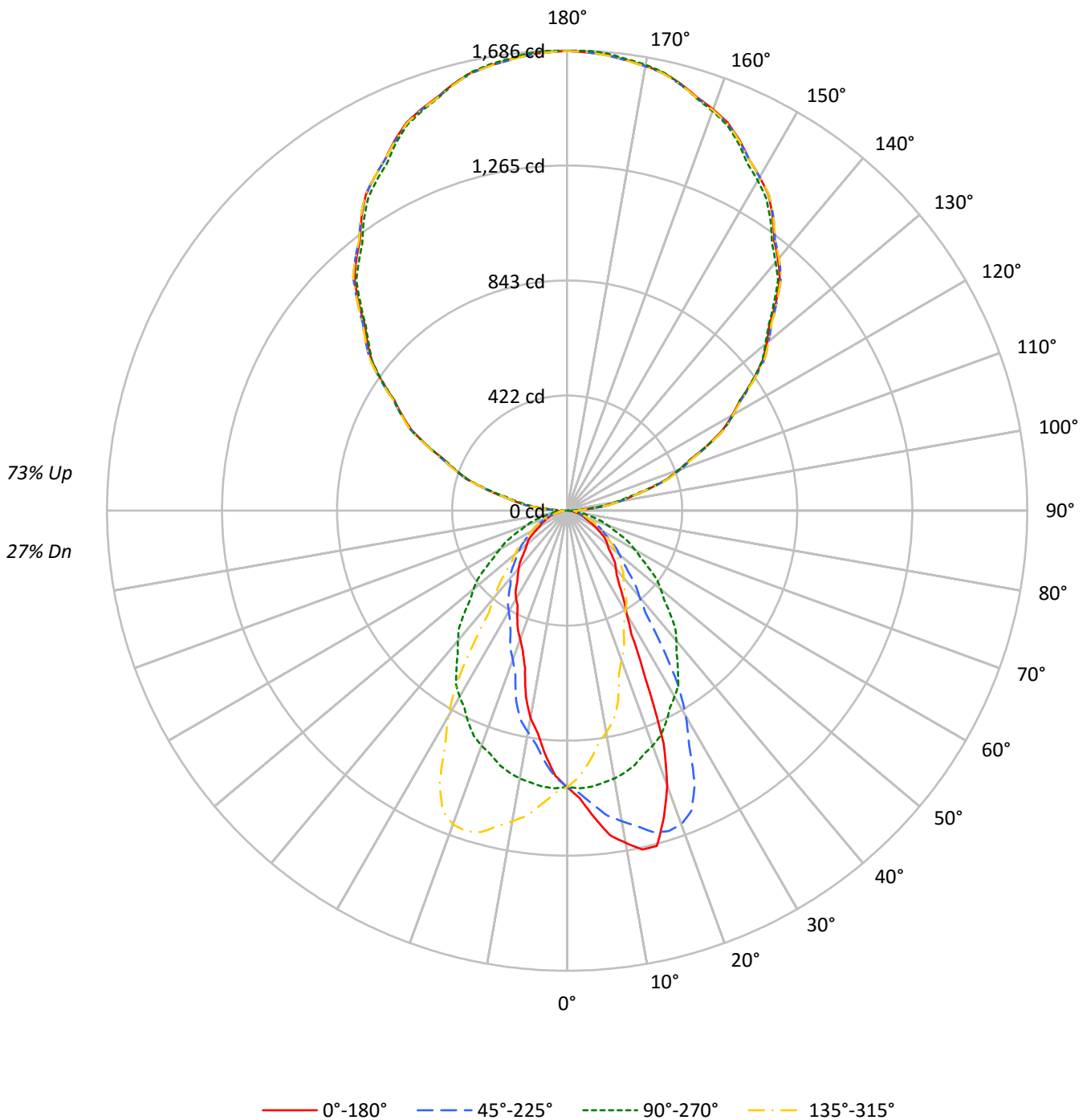
Lumens per Lamp: N/A  
Luminaire Lumens: 6465.6 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (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: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot





TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-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°	16356	16356	16356	16356
5°	18266	16459	14593	16459
10°	20266	16342	12650	16342
15°	21264	16104	9967	16104
20°	18433	15747	8624	15747
25°	12089	15262	7701	15262
30°	8138	14673	6969	14673
35°	6591	13931	6286	13931
40°	5861	13122	5817	13122
45°	5304	12177	5190	12177
50°	4828	11235	4808	11235
55°	4538	10196	4479	10196
60°	3794	9242	3749	9242
65°	3202	8390	3629	8390
70°	2960	7492	3423	7492
75°	2770	6519	3163	6519
80°	2548	5365	2817	5365
85°	2334	4242	2482	4242



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	1.5
10°-20°	267.6	4.1
20°-30°	344.8	5.3
30°-40°	327.7	5.1
40°-50°	280.7	4.3
50°-60°	213.8	3.3
60°-70°	135.1	2.1
70°-80°	67.5	1.0
80°-90°	24.3	0.4
90°-100°	106.7	1.6
100°-110°	331.4	5.1
110°-120°	566.4	8.8
120°-130°	744.9	11.5
130°-140°	836.1	12.9
140°-150°	819.8	12.7
150°-160°	687.6	10.6
160°-170°	456.0	7.1
170°-180°	159.4	2.5
0°-30°	708.4	11.0
0°-40°	1036.1	16.0
0°-60°	1530.5	23.7
0°-90°	1757.4	27.2
90°-120°	1004.5	15.5
90°-150°	3405.2	52.7
90°-180°	4708.0	72.8
0°-180°	6465.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1013	1013	1013	1013	1013	
5°	1127	1016	900	1016	1127	111
15°	1272	963	596	963	1272	343
25°	679	857	432	857	679	322
35°	334	707	319	707	334	214
45°	232	533	227	533	232	180
55°	161	362	159	362	161	141
65°	84	220	95	220	84	85
75°	44	104	51	104	44	47
85°	13	23	13	23	13	15
90°	48	1	48	1	48	22
95°	88	74	88	74	88	98
105°	316	306	316	306	316	332
115°	568	568	568	568	568	561
125°	830	827	830	827	830	740
135°	1083	1070	1083	1070	1083	833
145°	1313	1299	1313	1299	1313	820
155°	1496	1485	1496	1485	1496	689
165°	1617	1616	1617	1616	1617	456
175°	1675	1681	1675	1681	1675	159
180°	1684	1684	1684	1684	1684	



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1054.1	1055.0	1055.8	1053.9	1053.9	1052.2	1048.5	1045.7	1037.7	1036.6	1036.6
5°	1127.0	1126.3	1127.8	1123.1	1116.8	1115.4	1108.7	1099.9	1090.8	1080.5	1078.5
7.5°	1199.6	1198.5	1195.7	1194.9	1190.1	1179.4	1168.7	1157.2	1142.0	1127.1	1119.6
10°	1236.1	1247.7	1240.8	1228.4	1230.9	1214.4	1205.5	1190.4	1177.7	1155.6	1150.7
12.5°	1272.1	1276.8	1274.5	1267.5	1264.4	1252.9	1241.0	1227.9	1204.5	1184.6	1167.2
15°	1272.1	1278.7	1280.5	1278.4	1280.2	1279.4	1273.1	1262.2	1241.8	1219.9	1201.0
17.5°	1178.2	1182.8	1194.3	1202.1	1212.0	1232.8	1243.1	1247.2	1244.1	1231.6	1218.2
20°	1072.8	1065.1	1097.5	1114.0	1128.1	1163.3	1193.5	1205.1	1223.8	1223.5	1219.9
22.5°	923.6	925.4	956.1	975.7	1016.9	1052.1	1086.6	1130.3	1166.4	1190.2	1204.2
25°	678.6	692.0	722.6	749.3	795.1	860.6	920.1	989.1	1054.1	1105.6	1154.5
27.5°	509.6	510.7	534.9	559.7	586.8	640.5	715.4	797.8	890.6	967.1	1055.3
30°	436.5	434.3	444.6	459.7	483.0	524.4	580.8	661.8	754.3	869.8	972.5
32.5°	384.7	384.7	392.5	403.7	422.9	450.9	489.6	555.3	642.8	756.3	876.8
35°	334.4	334.0	339.7	347.8	355.8	373.8	400.2	434.7	494.9	600.9	724.1
37.5°	298.3	299.9	302.7	307.7	316.6	326.6	342.5	365.6	408.5	471.2	574.7
40°	278.1	278.8	282.7	286.9	292.2	299.9	312.9	331.6	362.9	412.8	488.5
42.5°	259.5	260.1	263.0	266.8	271.0	278.8	289.5	305.7	331.1	370.0	432.5
45°	232.3	232.3	234.8	236.5	241.1	248.2	256.9	270.3	287.9	316.8	358.4
47.5°	206.8	206.9	208.5	211.5	214.4	219.9	228.6	239.5	252.3	274.7	310.1
50°	192.2	192.6	193.6	196.0	197.8	202.7	209.4	219.0	232.3	249.6	279.1
52.5°	180.3	180.1	181.4	182.6	183.7	187.3	192.3	200.7	212.6	227.6	252.1
55°	161.2	159.8	161.9	163.6	164.8	166.2	168.9	174.3	184.5	197.1	215.4
57.5°	137.2	136.7	138.2	139.8	143.1	146.9	149.3	152.7	158.0	167.0	185.2
60°	117.5	117.5	120.7	121.8	125.6	130.5	135.5	138.4	143.6	149.6	163.0
62.5°	100.1	100.4	101.9	102.9	105.1	111.1	118.1	124.2	129.2	135.0	143.8
65°	83.8	84.5	84.5	85.2	86.6	88.0	90.8	95.8	104.5	112.6	119.3
67.5°	71.1	71.4	71.5	72.2	72.6	74.1	75.2	77.5	79.5	87.2	95.5
70°	62.7	63.7	63.3	64.1	64.4	65.1	66.5	67.6	70.8	72.5	77.5
72.5°	54.8	55.5	55.5	55.9	56.8	56.9	58.1	59.1	61.2	62.7	65.3
75°	44.4	44.0	44.4	45.1	45.4	45.7	45.7	47.1	48.3	49.7	51.4
77.5°	34.2	34.6	34.5	34.6	34.6	35.3	35.2	35.8	36.9	37.6	38.5
80°	27.4	27.8	27.4	27.8	28.2	28.5	28.2	28.5	29.6	30.3	30.3
82.5°	21.3	21.3	21.6	21.6	21.7	21.8	22.2	22.3	23.1	22.9	23.2
85°	12.6	12.3	12.3	12.3	12.6	13.0	12.6	12.6	13.0	13.0	13.0
87.5°	14.1	14.4	14.3	14.2	14.2	14.2	14.3	14.8	14.6	15.0	13.4
90°	48.4	48.0	47.7	47.4	47.0	47.2	47.9	48.4	49.1	49.8	42.8
92.5°	46.0	46.0	45.9	45.8	45.8	45.7	45.5	45.4	45.3	45.1	43.5
95°	88.1	88.7	89.4	90.0	90.6	91.0	91.0	91.0	91.0	91.0	90.3
97.5°	152.6	152.7	152.7	152.8	152.9	152.9	152.9	152.9	152.9	152.9	151.7
100°	194.6	195.0	195.3	195.6	196.0	196.0	196.0	196.0	196.0	196.0	195.1
102.5°	242.4	242.7	243.1	243.4	243.6	243.7	243.5	243.2	243.0	242.7	241.5
105°	315.5	315.5	315.5	315.5	315.5	315.1	314.5	313.9	313.2	312.6	312.0
107.5°	384.2	385.7	387.1	388.6	390.0	390.6	390.4	390.1	389.8	389.6	389.6
110°	437.6	438.6	439.5	440.5	441.4	442.0	442.0	442.0	442.0	442.0	442.0



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	488.8	489.5	490.2	490.9	491.5	492.3	493.0	493.8	494.6	495.3	495.6
115°	568.4	569.3	570.2	571.2	572.1	572.8	573.1	573.4	573.7	574.1	574.7
117.5°	644.2	645.2	646.1	647.1	648.0	648.9	649.7	650.4	651.2	652.0	653.7
120°	697.7	698.6	699.6	700.5	701.4	701.9	701.9	701.9	701.9	701.9	704.5
122.5°	750.0	750.6	751.4	752.1	752.7	753.5	754.2	755.0	755.7	756.5	758.3
125°	829.8	830.2	830.5	830.8	831.1	831.7	832.6	833.6	834.5	835.5	836.5
127.5°	902.6	903.6	904.6	905.6	906.6	907.7	908.8	909.9	911.1	912.3	913.4
130°	954.9	956.1	957.4	958.7	959.9	960.8	961.5	962.1	962.8	963.4	964.0
132.5°	1004.8	1005.9	1006.9	1008.0	1008.9	1010.1	1011.5	1013.0	1014.3	1015.7	1015.6
135°	1082.8	1083.7	1084.7	1085.6	1086.6	1087.2	1087.5	1087.8	1088.2	1088.4	1087.8
137.5°	1153.2	1154.5	1155.7	1157.1	1158.3	1159.0	1159.3	1159.5	1159.8	1160.1	1159.2
140°	1202.1	1203.3	1204.7	1205.9	1207.2	1207.8	1207.8	1207.8	1207.8	1207.8	1206.3
142.5°	1246.4	1247.7	1249.0	1250.3	1251.5	1252.0	1251.8	1251.5	1251.2	1251.0	1249.9
145°	1313.0	1314.2	1315.5	1316.7	1318.0	1318.4	1318.1	1317.9	1317.5	1317.2	1315.3
147.5°	1372.3	1373.6	1374.7	1375.9	1377.1	1377.4	1376.7	1376.0	1375.4	1374.6	1373.4
150°	1411.0	1411.9	1412.9	1413.8	1414.8	1414.8	1413.8	1412.9	1411.9	1411.0	1409.8
152.5°	1447.4	1448.6	1449.7	1451.0	1452.2	1452.2	1451.0	1449.7	1448.6	1447.4	1445.9
155°	1496.3	1497.2	1498.2	1499.1	1500.1	1499.7	1498.2	1496.6	1495.0	1493.4	1492.4
157.5°	1538.3	1539.8	1541.3	1542.8	1544.4	1544.1	1541.9	1539.7	1537.6	1535.5	1534.9
160°	1564.4	1565.8	1567.0	1568.2	1569.5	1569.1	1567.3	1565.4	1563.5	1561.6	1561.3
162.5°	1587.1	1588.7	1590.3	1591.8	1593.3	1592.9	1590.8	1588.7	1586.5	1584.3	1584.0
165°	1617.0	1618.6	1620.2	1621.7	1623.3	1623.1	1620.8	1618.6	1616.4	1614.2	1614.2
167.5°	1641.4	1643.1	1644.7	1646.4	1648.0	1647.8	1645.6	1643.3	1641.2	1638.9	1639.0
170°	1654.0	1655.9	1657.7	1659.6	1661.5	1661.4	1659.2	1657.0	1654.7	1652.6	1652.8
172.5°	1664.2	1666.1	1668.0	1669.9	1671.8	1671.6	1669.4	1667.2	1665.0	1662.7	1663.1
175°	1675.3	1677.2	1679.0	1680.9	1682.9	1682.7	1680.5	1678.3	1676.1	1673.9	1674.5
177.5°	1680.4	1681.9	1683.5	1685.0	1686.5	1686.5	1685.0	1683.5	1681.9	1680.4	1680.9
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1037.2	1035.0	1033.0	1027.9	1025.4	1019.7	1018.9	1018.6	1011.3	1004.3	1002.3
5°	1072.8	1067.2	1058.8	1048.9	1038.7	1028.1	1021.1	1015.5	1001.4	988.0	980.2
7.5°	1108.7	1096.6	1082.0	1063.4	1047.8	1030.4	1017.5	1005.8	985.8	966.7	953.8
10°	1135.5	1115.8	1096.5	1070.7	1050.7	1031.0	1012.7	996.8	974.3	949.0	930.9
12.5°	1152.1	1130.4	1103.7	1078.6	1052.6	1027.6	1003.1	982.7	956.3	930.1	908.7
15°	1174.6	1151.3	1119.0	1083.1	1049.6	1016.9	988.7	963.4	928.9	897.6	871.5
17.5°	1193.0	1160.9	1126.1	1084.7	1045.9	1004.4	968.1	935.7	897.3	859.5	828.9
20°	1198.8	1167.2	1127.0	1085.5	1039.7	990.8	951.8	916.5	875.3	834.2	799.0
22.5°	1195.1	1170.5	1125.9	1076.2	1029.4	978.2	934.1	893.2	847.5	805.5	764.7
25°	1170.4	1161.9	1119.6	1065.5	1011.9	952.4	901.4	856.7	804.6	759.6	715.2
27.5°	1112.4	1130.7	1104.5	1046.7	987.2	923.4	866.1	815.2	761.1	710.4	666.2
30°	1056.7	1098.5	1087.2	1033.8	967.2	904.6	840.2	787.0	729.3	677.2	633.6
32.5°	980.3	1049.5	1060.5	1015.8	947.0	878.1	810.6	757.7	697.5	642.5	600.0
35°	858.8	962.3	1009.8	981.3	912.3	838.1	768.4	706.8	646.2	592.0	549.8
37.5°	713.9	854.8	934.1	936.0	872.7	795.5	719.6	658.5	596.4	543.3	497.6
40°	619.8	772.6	875.7	898.6	845.1	761.7	684.9	622.6	562.1	510.0	457.6
42.5°	535.4	687.6	814.4	854.1	811.6	728.8	651.8	586.6	527.7	478.4	424.9
45°	432.9	566.0	705.7	776.8	753.3	676.5	595.2	533.3	478.0	435.4	384.0
47.5°	365.2	459.0	594.2	690.4	689.9	619.9	540.0	480.6	429.3	389.5	347.8
50°	326.6	408.3	522.7	631.8	640.9	582.2	506.1	447.3	399.5	357.6	324.1
52.5°	292.0	359.3	462.1	566.8	592.8	541.9	468.2	413.9	367.4	328.9	300.2
55°	246.8	298.8	377.0	474.9	514.3	478.3	412.8	362.2	324.5	292.2	267.5
57.5°	208.7	247.8	310.5	389.3	435.2	412.6	358.6	317.4	285.2	255.9	236.5
60°	184.8	216.8	269.9	335.8	386.4	370.6	324.5	286.2	258.7	233.4	215.1
62.5°	162.3	189.8	235.4	288.8	335.3	328.7	291.1	258.8	234.8	211.7	196.2
65°	130.5	150.6	186.2	228.1	265.4	268.5	241.5	219.6	198.1	179.8	166.2
67.5°	104.0	117.1	142.1	177.4	205.4	215.4	198.8	182.1	165.0	150.9	139.0
70°	87.7	98.2	116.5	145.1	170.7	181.3	171.7	158.7	143.9	132.3	122.2
72.5°	71.1	81.3	94.8	115.7	137.8	149.2	145.9	136.5	124.5	114.9	105.3
75°	53.5	56.6	65.8	79.9	97.2	107.0	109.4	104.5	95.0	87.7	82.0
77.5°	39.6	41.5	45.8	53.3	64.5	73.2	76.9	76.3	69.7	65.5	60.2
80°	31.7	32.7	34.9	38.0	46.5	55.2	57.7	57.7	53.2	51.4	46.1
82.5°	24.0	24.9	26.1	27.9	31.9	39.5	42.2	42.8	39.9	37.6	33.5
85°	13.8	13.4	14.0	15.2	15.8	17.9	22.1	22.9	22.1	19.3	18.3
87.5°	12.0	10.8	9.4	8.1	7.6	7.2	7.8	8.5	8.1	8.0	8.2
90°	35.8	28.9	22.0	16.6	12.8	9.0	5.2	1.4	5.2	9.0	12.8
92.5°	41.9	40.2	38.6	36.4	33.6	30.8	28.1	25.3	28.1	30.8	33.6
95°	89.6	89.1	88.4	86.5	83.3	80.2	77.0	73.9	77.0	80.2	83.3
97.5°	150.5	149.3	148.1	146.1	143.4	140.5	137.8	135.0	137.8	140.5	143.4
100°	194.2	193.2	192.3	190.6	188.0	185.5	182.9	180.5	182.9	185.5	188.0
102.5°	240.3	239.1	237.9	236.3	234.2	232.2	230.3	228.2	230.3	232.2	234.2
105°	311.3	310.8	310.1	309.2	308.3	307.4	306.4	305.5	306.4	307.4	308.3
107.5°	389.6	389.6	389.6	388.9	387.6	386.2	384.7	383.3	384.7	386.2	387.6
110°	442.0	442.0	442.0	440.9	439.0	437.2	435.3	433.4	435.3	437.2	439.0





TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	495.9	496.1	496.3	495.5	493.6	491.7	489.8	488.0	489.8	491.7	493.6
115°	575.3	576.0	576.6	576.0	574.1	572.1	570.2	568.4	570.2	572.1	574.1
117.5°	655.4	657.2	659.0	658.6	656.1	653.6	651.0	648.6	651.0	653.6	656.1
120°	707.0	709.5	712.1	712.1	709.5	707.0	704.5	701.9	704.5	707.0	709.5
122.5°	760.1	761.9	763.6	763.0	759.9	756.9	753.8	750.8	753.8	756.9	759.9
125°	837.4	838.4	839.3	838.4	835.5	832.6	829.8	827.0	829.8	832.6	835.5
127.5°	914.5	915.7	916.8	915.6	912.0	908.3	904.7	901.2	904.7	908.3	912.0
130°	964.7	965.3	965.9	964.2	960.1	956.0	951.9	947.7	951.9	956.0	960.1
132.5°	1015.4	1015.3	1015.2	1013.4	1010.1	1006.7	1003.4	1000.0	1003.4	1006.7	1010.1
135°	1087.2	1086.6	1085.9	1083.8	1080.3	1076.9	1073.5	1070.0	1073.5	1076.9	1080.3
137.5°	1158.4	1157.6	1156.8	1154.9	1152.1	1149.2	1146.4	1143.6	1146.4	1149.2	1152.1
140°	1204.7	1203.1	1201.5	1199.3	1196.5	1193.6	1190.7	1187.9	1190.7	1193.6	1196.5
142.5°	1248.9	1247.7	1246.7	1244.7	1241.9	1239.1	1236.2	1233.4	1236.2	1239.1	1241.9
145°	1313.4	1311.5	1309.7	1307.6	1305.3	1303.2	1301.0	1298.7	1301.0	1303.2	1305.3
147.5°	1372.1	1370.8	1369.6	1367.6	1365.0	1362.3	1359.6	1357.0	1359.6	1362.3	1365.0
150°	1408.4	1407.2	1405.9	1404.4	1402.5	1400.6	1398.6	1396.8	1398.6	1400.6	1402.5
152.5°	1444.4	1442.8	1441.3	1439.6	1437.7	1435.8	1433.9	1432.0	1433.9	1435.8	1437.7
155°	1491.5	1490.5	1489.6	1488.7	1487.7	1486.8	1485.8	1484.9	1485.8	1486.8	1487.7
157.5°	1534.4	1533.8	1533.2	1532.6	1532.0	1531.3	1530.7	1530.0	1530.7	1531.3	1532.0
160°	1560.9	1560.7	1560.4	1559.9	1559.2	1558.6	1558.0	1557.4	1558.0	1558.6	1559.2
162.5°	1583.8	1583.4	1583.1	1582.9	1582.7	1582.6	1582.5	1582.3	1582.5	1582.6	1582.7
165°	1614.2	1614.2	1614.2	1614.4	1614.7	1615.0	1615.3	1615.6	1615.3	1615.0	1614.7
167.5°	1639.1	1639.1	1639.2	1639.6	1640.6	1641.5	1642.5	1643.4	1642.5	1641.5	1640.6
170°	1653.2	1653.5	1653.8	1654.4	1655.4	1656.3	1657.3	1658.2	1657.3	1656.3	1655.4
172.5°	1663.4	1663.8	1664.1	1664.7	1665.7	1666.6	1667.5	1668.5	1667.5	1666.6	1665.7
175°	1675.1	1675.7	1676.4	1677.2	1678.1	1679.0	1680.0	1680.9	1680.0	1679.0	1678.1
177.5°	1681.4	1681.9	1682.4	1683.1	1683.9	1684.6	1685.4	1686.1	1685.4	1684.6	1683.9
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	998.6	996.6	993.0	987.4	984.0	978.1	974.1	976.4	976.9	976.4	975.8
5°	971.9	964.4	954.2	944.3	935.2	925.4	919.7	917.3	912.3	909.6	908.1
7.5°	939.3	926.6	912.2	895.0	880.4	865.2	857.3	853.5	843.4	837.9	833.1
10°	915.1	895.0	880.6	858.1	844.4	824.3	810.6	811.0	797.2	789.5	783.8
12.5°	888.4	866.4	842.4	822.1	803.0	786.9	770.3	763.6	749.0	741.6	726.4
15°	844.0	818.3	793.1	765.5	746.2	721.2	697.3	668.1	644.5	624.1	618.4
17.5°	795.6	763.8	738.4	706.2	673.0	630.9	603.2	586.3	572.0	561.3	553.3
20°	762.4	730.0	702.9	654.3	609.6	581.1	560.7	547.7	532.9	521.3	514.9
22.5°	727.5	693.7	656.8	602.5	567.7	544.8	526.6	511.6	501.6	492.6	486.8
25°	677.9	640.9	580.0	542.7	514.6	490.7	478.0	468.8	458.3	445.9	440.4
27.5°	625.6	566.8	523.0	495.3	468.4	452.9	441.5	427.8	418.4	412.8	407.0
30°	586.4	527.6	493.5	463.2	444.2	427.0	413.6	405.9	396.7	387.2	383.3
32.5°	542.7	495.8	463.1	437.9	418.6	403.9	393.3	380.8	374.2	368.3	360.2
35°	488.5	453.0	423.1	402.7	384.4	372.4	360.1	352.7	340.7	335.8	332.6
37.5°	442.6	411.8	389.5	368.0	353.5	340.3	332.7	320.9	315.8	308.9	302.2
40°	416.7	386.4	365.0	347.4	331.2	321.3	311.9	302.4	294.6	291.4	283.3
42.5°	390.3	365.6	344.1	324.9	314.1	303.6	291.6	284.6	276.5	271.5	266.5
45°	353.7	332.0	313.6	297.7	285.8	274.9	267.1	255.5	251.0	240.7	236.5
47.5°	321.6	301.3	283.9	268.8	257.1	250.1	238.7	229.6	222.3	216.0	210.7
50°	298.8	281.9	265.0	251.7	241.1	230.9	219.3	214.7	203.4	200.3	197.1
52.5°	278.0	261.9	246.5	233.4	222.8	212.9	202.6	196.7	189.1	185.9	183.6
55°	248.8	233.4	218.6	207.0	196.4	186.2	179.8	172.5	168.9	166.5	163.6
57.5°	219.5	205.7	194.3	182.6	171.9	163.8	156.5	152.0	148.4	145.2	141.8
60°	201.0	187.6	177.4	166.5	155.6	148.9	143.3	138.0	133.7	128.8	127.4
62.5°	181.3	169.6	160.2	149.6	140.1	133.9	128.7	123.7	118.6	111.4	109.4
65°	154.2	145.1	135.2	126.4	117.9	112.0	104.2	98.6	96.4	95.8	95.4
67.5°	129.7	121.0	112.5	103.6	95.9	90.3	86.3	85.5	84.1	83.6	82.7
70°	113.3	105.3	96.8	88.3	81.0	79.9	78.5	77.1	75.3	74.6	73.9
72.5°	98.7	90.3	81.9	75.1	71.9	70.6	69.2	67.8	66.6	65.9	65.5
75°	75.7	68.0	62.3	59.9	58.1	57.0	55.0	53.8	53.2	52.1	51.7
77.5°	54.5	50.1	47.5	46.0	44.1	43.0	41.8	40.7	40.0	39.8	39.2
80°	41.6	39.4	37.7	35.5	34.9	33.5	33.1	32.0	32.4	31.3	31.3
82.5°	32.2	29.6	28.1	27.1	26.4	25.3	24.9	24.4	24.5	23.8	23.8
85°	16.6	15.8	15.2	14.4	14.4	13.4	13.8	13.4	13.4	12.6	12.3
87.5°	8.7	9.4	10.3	11.7	13.1	14.1	14.0	13.7	13.5	13.4	13.1
90°	16.6	22.0	28.9	35.8	42.8	49.8	49.1	48.4	47.9	47.2	47.0
92.5°	36.4	38.6	40.2	41.9	43.5	45.1	45.3	45.4	45.5	45.7	45.8
95°	86.5	88.4	89.1	89.6	90.3	91.0	91.0	91.0	91.0	91.0	90.6
97.5°	146.1	148.1	149.3	150.5	151.7	152.9	152.9	152.9	152.9	152.9	152.9
100°	190.6	192.3	193.2	194.2	195.1	196.0	196.0	196.0	196.0	196.0	196.0
102.5°	236.3	237.9	239.1	240.3	241.5	242.7	243.0	243.2	243.5	243.7	243.6
105°	309.2	310.1	310.8	311.3	312.0	312.6	313.2	313.9	314.5	315.1	315.5
107.5°	388.9	389.6	389.6	389.6	389.6	389.6	389.8	390.1	390.4	390.6	390.0
110°	440.9	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0	441.4



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	495.5	496.3	496.1	495.9	495.6	495.3	494.6	493.8	493.0	492.3	491.5
115°	576.0	576.6	576.0	575.3	574.7	574.1	573.7	573.4	573.1	572.8	572.1
117.5°	658.6	659.0	657.2	655.4	653.7	652.0	651.2	650.4	649.7	648.9	648.0
120°	712.1	712.1	709.5	707.0	704.5	701.9	701.9	701.9	701.9	701.9	701.4
122.5°	763.0	763.6	761.9	760.1	758.3	756.5	755.7	755.0	754.2	753.5	752.7
125°	838.4	839.3	838.4	837.4	836.5	835.5	834.5	833.6	832.6	831.7	831.1
127.5°	915.6	916.8	915.7	914.5	913.4	912.3	911.1	909.9	908.8	907.7	906.6
130°	964.2	965.9	965.3	964.7	964.0	963.4	962.8	962.1	961.5	960.8	959.9
132.5°	1013.4	1015.2	1015.3	1015.4	1015.6	1015.7	1014.3	1013.0	1011.5	1010.1	1008.9
135°	1083.8	1085.9	1086.6	1087.2	1087.8	1088.4	1088.2	1087.8	1087.5	1087.2	1086.6
137.5°	1154.9	1156.8	1157.6	1158.4	1159.2	1160.1	1159.8	1159.5	1159.3	1159.0	1158.3
140°	1199.3	1201.5	1203.1	1204.7	1206.3	1207.8	1207.8	1207.8	1207.8	1207.8	1207.2
142.5°	1244.7	1246.7	1247.7	1248.9	1249.9	1251.0	1251.2	1251.5	1251.8	1252.0	1251.5
145°	1307.6	1309.7	1311.5	1313.4	1315.3	1317.2	1317.5	1317.9	1318.1	1318.4	1318.0
147.5°	1367.6	1369.6	1370.8	1372.1	1373.4	1374.6	1375.4	1376.0	1376.7	1377.4	1377.1
150°	1404.4	1405.9	1407.2	1408.4	1409.8	1411.0	1411.9	1412.9	1413.8	1414.8	1414.8
152.5°	1439.6	1441.3	1442.8	1444.4	1445.9	1447.4	1448.6	1449.7	1451.0	1452.2	1452.2
155°	1488.7	1489.6	1490.5	1491.5	1492.4	1493.4	1495.0	1496.6	1498.2	1499.7	1500.1
157.5°	1532.6	1533.2	1533.8	1534.4	1534.9	1535.5	1537.6	1539.7	1541.9	1544.1	1544.4
160°	1559.9	1560.4	1560.7	1560.9	1561.3	1561.6	1563.5	1565.4	1567.3	1569.1	1569.5
162.5°	1582.9	1583.1	1583.4	1583.8	1584.0	1584.3	1586.5	1588.7	1590.8	1592.9	1593.3
165°	1614.4	1614.2	1614.2	1614.2	1614.2	1614.2	1616.4	1618.6	1620.8	1623.1	1623.3
167.5°	1639.6	1639.2	1639.1	1639.1	1639.0	1638.9	1641.2	1643.3	1645.6	1647.8	1648.0
170°	1654.4	1653.8	1653.5	1653.2	1652.8	1652.6	1654.7	1657.0	1659.2	1661.4	1661.5
172.5°	1664.7	1664.1	1663.8	1663.4	1663.1	1662.7	1665.0	1667.2	1669.4	1671.6	1671.8
175°	1677.2	1676.4	1675.7	1675.1	1674.5	1673.9	1676.1	1678.3	1680.5	1682.7	1682.9
177.5°	1683.1	1682.4	1681.9	1681.4	1680.9	1680.4	1681.9	1683.5	1685.0	1686.5	1686.5
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	972.7	973.3	972.4	973.0	972.4	973.3	972.7	975.8	976.4	976.9	976.4
5°	906.3	902.1	901.4	900.4	901.4	902.1	906.3	908.1	909.6	912.3	917.3
7.5°	827.1	826.4	824.7	822.2	824.7	826.4	827.1	833.1	837.9	843.4	853.5
10°	776.1	774.4	774.0	771.6	774.0	774.4	776.1	783.8	789.5	797.2	811.0
12.5°	716.4	705.1	703.9	697.8	703.9	705.1	716.4	726.4	741.6	749.0	763.6
15°	610.0	607.8	600.9	596.3	600.9	607.8	610.0	618.4	624.1	644.5	668.1
17.5°	549.1	542.2	540.1	539.1	540.1	542.2	549.1	553.3	561.3	572.0	586.3
20°	510.0	503.7	502.7	501.9	502.7	503.7	510.0	514.9	521.3	532.9	547.7
22.5°	483.0	476.4	473.6	471.6	473.6	476.4	483.0	486.8	492.6	501.6	511.6
25°	436.8	434.3	432.9	432.3	432.9	434.3	436.8	440.4	445.9	458.3	468.8
27.5°	400.7	395.3	394.2	392.4	394.2	395.3	400.7	407.0	412.8	418.4	427.8
30°	380.1	378.3	375.9	373.8	375.9	378.3	380.1	383.3	387.2	396.7	405.9
32.5°	355.9	354.5	352.2	351.3	352.2	354.5	355.9	360.2	368.3	374.2	380.8
35°	329.1	324.1	322.1	318.9	322.1	324.1	329.1	332.6	335.8	340.7	352.7
37.5°	300.8	298.1	295.2	296.2	295.2	298.1	300.8	302.2	308.9	315.8	320.9
40°	278.8	277.0	276.3	276.0	276.3	277.0	278.8	283.3	291.4	294.6	302.4
42.5°	261.3	256.5	254.6	254.6	254.6	256.5	261.3	266.5	271.5	276.5	284.6
45°	234.8	230.2	227.1	227.3	227.1	230.2	234.8	236.5	240.7	251.0	255.5
47.5°	207.6	207.5	205.5	206.1	205.5	207.5	207.6	210.7	216.0	222.3	229.6
50°	194.6	192.6	191.1	191.4	191.1	192.6	194.6	197.1	200.3	203.4	214.7
52.5°	182.3	180.4	179.3	180.8	179.3	180.4	182.3	183.6	185.9	189.1	196.7
55°	161.9	159.8	159.5	159.1	159.5	159.8	161.9	163.6	166.5	168.9	172.5
57.5°	139.2	137.8	135.6	134.8	135.6	137.8	139.2	141.8	145.2	148.4	152.0
60°	122.8	120.0	116.5	116.1	116.5	120.0	122.8	127.4	128.8	133.7	138.0
62.5°	107.9	107.4	106.7	106.6	106.7	107.4	107.9	109.4	111.4	118.6	123.7
65°	94.7	94.3	94.7	95.0	94.7	94.3	94.7	95.4	95.8	96.4	98.6
67.5°	82.5	81.9	81.2	81.5	81.2	81.9	82.5	82.7	83.6	84.1	85.5
70°	73.2	72.9	72.5	72.5	72.5	72.9	73.2	73.9	74.6	75.3	77.1
72.5°	64.2	64.1	63.8	63.5	63.8	64.1	64.2	65.5	65.9	66.6	67.8
75°	51.4	50.7	50.7	50.7	50.7	50.7	51.4	51.7	52.1	53.2	53.8
77.5°	39.1	38.8	38.5	38.2	38.5	38.8	39.1	39.2	39.8	40.0	40.7
80°	31.0	30.6	30.3	30.3	30.3	30.6	31.0	31.3	31.3	32.4	32.0
82.5°	23.7	23.3	23.2	22.9	23.2	23.3	23.7	23.8	23.8	24.5	24.4
85°	12.6	13.0	12.6	13.4	12.6	13.0	12.6	12.3	12.6	13.4	13.4
87.5°	13.1	12.9	13.3	13.0	13.3	12.9	13.1	13.1	13.4	13.5	13.7
90°	47.4	47.7	48.0	48.4	48.0	47.7	47.4	47.0	47.2	47.9	48.4
92.5°	45.8	45.9	46.0	46.0	46.0	45.9	45.8	45.8	45.7	45.5	45.4
95°	90.0	89.4	88.7	88.1	88.7	89.4	90.0	90.6	91.0	91.0	91.0
97.5°	152.8	152.7	152.7	152.6	152.7	152.7	152.8	152.9	152.9	152.9	152.9
100°	195.6	195.3	195.0	194.6	195.0	195.3	195.6	196.0	196.0	196.0	196.0
102.5°	243.4	243.1	242.7	242.4	242.7	243.1	243.4	243.6	243.7	243.5	243.2
105°	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.1	314.5	313.9
107.5°	388.6	387.1	385.7	384.2	385.7	387.1	388.6	390.0	390.6	390.4	390.1
110°	440.5	439.5	438.6	437.6	438.6	439.5	440.5	441.4	442.0	442.0	442.0



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	490.9	490.2	489.5	488.8	489.5	490.2	490.9	491.5	492.3	493.0	493.8
115°	571.2	570.2	569.3	568.4	569.3	570.2	571.2	572.1	572.8	573.1	573.4
117.5°	647.1	646.1	645.2	644.2	645.2	646.1	647.1	648.0	648.9	649.7	650.4
120°	700.5	699.6	698.6	697.7	698.6	699.6	700.5	701.4	701.9	701.9	701.9
122.5°	752.1	751.4	750.6	750.0	750.6	751.4	752.1	752.7	753.5	754.2	755.0
125°	830.8	830.5	830.2	829.8	830.2	830.5	830.8	831.1	831.7	832.6	833.6
127.5°	905.6	904.6	903.6	902.6	903.6	904.6	905.6	906.6	907.7	908.8	909.9
130°	958.7	957.4	956.1	954.9	956.1	957.4	958.7	959.9	960.8	961.5	962.1
132.5°	1008.0	1006.9	1005.9	1004.8	1005.9	1006.9	1008.0	1008.9	1010.1	1011.5	1013.0
135°	1085.6	1084.7	1083.7	1082.8	1083.7	1084.7	1085.6	1086.6	1087.2	1087.5	1087.8
137.5°	1157.1	1155.7	1154.5	1153.2	1154.5	1155.7	1157.1	1158.3	1159.0	1159.3	1159.5
140°	1205.9	1204.7	1203.3	1202.1	1203.3	1204.7	1205.9	1207.2	1207.8	1207.8	1207.8
142.5°	1250.3	1249.0	1247.7	1246.4	1247.7	1249.0	1250.3	1251.5	1252.0	1251.8	1251.5
145°	1316.7	1315.5	1314.2	1313.0	1314.2	1315.5	1316.7	1318.0	1318.4	1318.1	1317.9
147.5°	1375.9	1374.7	1373.6	1372.3	1373.6	1374.7	1375.9	1377.1	1377.4	1376.7	1376.0
150°	1413.8	1412.9	1411.9	1411.0	1411.9	1412.9	1413.8	1414.8	1414.8	1413.8	1412.9
152.5°	1451.0	1449.7	1448.6	1447.4	1448.6	1449.7	1451.0	1452.2	1452.2	1451.0	1449.7
155°	1499.1	1498.2	1497.2	1496.3	1497.2	1498.2	1499.1	1500.1	1499.7	1498.2	1496.6
157.5°	1542.8	1541.3	1539.8	1538.3	1539.8	1541.3	1542.8	1544.4	1544.1	1541.9	1539.7
160°	1568.2	1567.0	1565.8	1564.4	1565.8	1567.0	1568.2	1569.5	1569.1	1567.3	1565.4
162.5°	1591.8	1590.3	1588.7	1587.1	1588.7	1590.3	1591.8	1593.3	1592.9	1590.8	1588.7
165°	1621.7	1620.2	1618.6	1617.0	1618.6	1620.2	1621.7	1623.3	1623.1	1620.8	1618.6
167.5°	1646.4	1644.7	1643.1	1641.4	1643.1	1644.7	1646.4	1648.0	1647.8	1645.6	1643.3
170°	1659.6	1657.7	1655.9	1654.0	1655.9	1657.7	1659.6	1661.5	1661.4	1659.2	1657.0
172.5°	1669.9	1668.0	1666.1	1664.2	1666.1	1668.0	1669.9	1671.8	1671.6	1669.4	1667.2
175°	1680.9	1679.0	1677.2	1675.3	1677.2	1679.0	1680.9	1682.9	1682.7	1680.5	1678.3
177.5°	1685.0	1683.5	1681.9	1680.4	1681.9	1683.5	1685.0	1686.5	1686.5	1685.0	1683.5
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	974.1	978.1	984.0	987.4	993.0	996.6	998.6	1002.3	1004.3	1011.3	1018.6
5°	919.7	925.4	935.2	944.3	954.2	964.4	971.9	980.2	988.0	1001.4	1015.5
7.5°	857.3	865.2	880.4	895.0	912.2	926.6	939.3	953.8	966.7	985.8	1005.8
10°	810.6	824.3	844.4	858.1	880.6	895.0	915.1	930.9	949.0	974.3	996.8
12.5°	770.3	786.9	803.0	822.1	842.4	866.4	888.4	908.7	930.1	956.3	982.7
15°	697.3	721.2	746.2	765.5	793.1	818.3	844.0	871.5	897.6	928.9	963.4
17.5°	603.2	630.9	673.0	706.2	738.4	763.8	795.6	828.9	859.5	897.3	935.7
20°	560.7	581.1	609.6	654.3	702.9	730.0	762.4	799.0	834.2	875.3	916.5
22.5°	526.6	544.8	567.7	602.5	656.8	693.7	727.5	764.7	805.5	847.5	893.2
25°	478.0	490.7	514.6	542.7	580.0	640.9	677.9	715.2	759.6	804.6	856.7
27.5°	441.5	452.9	468.4	495.3	523.0	566.8	625.6	666.2	710.4	761.1	815.2
30°	413.6	427.0	444.2	463.2	493.5	527.6	586.4	633.6	677.2	729.3	787.0
32.5°	393.3	403.9	418.6	437.9	463.1	495.8	542.7	600.0	642.5	697.5	757.7
35°	360.1	372.4	384.4	402.7	423.1	453.0	488.5	549.8	592.0	646.2	706.8
37.5°	332.7	340.3	353.5	368.0	389.5	411.8	442.6	497.6	543.3	596.4	658.5
40°	311.9	321.3	331.2	347.4	365.0	386.4	416.7	457.6	510.0	562.1	622.6
42.5°	291.6	303.6	314.1	324.9	344.1	365.6	390.3	424.9	478.4	527.7	586.6
45°	267.1	274.9	285.8	297.7	313.6	332.0	353.7	384.0	435.4	478.0	533.3
47.5°	238.7	250.1	257.1	268.8	283.9	301.3	321.6	347.8	389.5	429.3	480.6
50°	219.3	230.9	241.1	251.7	265.0	281.9	298.8	324.1	357.6	399.5	447.3
52.5°	202.6	212.9	222.8	233.4	246.5	261.9	278.0	300.2	328.9	367.4	413.9
55°	179.8	186.2	196.4	207.0	218.6	233.4	248.8	267.5	292.2	324.5	362.2
57.5°	156.5	163.8	171.9	182.6	194.3	205.7	219.5	236.5	255.9	285.2	317.4
60°	143.3	148.9	155.6	166.5	177.4	187.6	201.0	215.1	233.4	258.7	286.2
62.5°	128.7	133.9	140.1	149.6	160.2	169.6	181.3	196.2	211.7	234.8	258.8
65°	104.2	112.0	117.9	126.4	135.2	145.1	154.2	166.2	179.8	198.1	219.6
67.5°	86.3	90.3	95.9	103.6	112.5	121.0	129.7	139.0	150.9	165.0	182.1
70°	78.5	79.9	81.0	88.3	96.8	105.3	113.3	122.2	132.3	143.9	158.7
72.5°	69.2	70.6	71.9	75.1	81.9	90.3	98.7	105.3	114.9	124.5	136.5
75°	55.0	57.0	58.1	59.9	62.3	68.0	75.7	82.0	87.7	95.0	104.5
77.5°	41.8	43.0	44.1	46.0	47.5	50.1	54.5	60.2	65.5	69.7	76.3
80°	33.1	33.5	34.9	35.5	37.7	39.4	41.6	46.1	51.4	53.2	57.7
82.5°	24.9	25.3	26.4	27.1	28.1	29.6	32.2	33.5	37.6	39.9	42.8
85°	13.8	13.4	14.4	14.4	15.2	15.8	16.6	18.3	19.3	22.1	22.9
87.5°	14.0	14.1	13.1	11.7	10.3	9.4	8.7	8.2	8.0	8.1	8.5
90°	49.1	49.8	42.8	35.8	28.9	22.0	16.6	12.8	9.0	5.2	1.4
92.5°	45.3	45.1	43.5	41.9	40.2	38.6	36.4	33.6	30.8	28.1	25.3
95°	91.0	91.0	90.3	89.6	89.1	88.4	86.5	83.3	80.2	77.0	73.9
97.5°	152.9	152.9	151.7	150.5	149.3	148.1	146.1	143.4	140.5	137.8	135.0
100°	196.0	196.0	195.1	194.2	193.2	192.3	190.6	188.0	185.5	182.9	180.5
102.5°	243.0	242.7	241.5	240.3	239.1	237.9	236.3	234.2	232.2	230.3	228.2
105°	313.2	312.6	312.0	311.3	310.8	310.1	309.2	308.3	307.4	306.4	305.5
107.5°	389.8	389.6	389.6	389.6	389.6	389.6	388.9	387.6	386.2	384.7	383.3
110°	442.0	442.0	442.0	442.0	442.0	442.0	440.9	439.0	437.2	435.3	433.4



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.6	495.3	495.6	495.9	496.1	496.3	495.5	493.6	491.7	489.8	488.0
115°	573.7	574.1	574.7	575.3	576.0	576.6	576.0	574.1	572.1	570.2	568.4
117.5°	651.2	652.0	653.7	655.4	657.2	659.0	658.6	656.1	653.6	651.0	648.6
120°	701.9	701.9	704.5	707.0	709.5	712.1	712.1	709.5	707.0	704.5	701.9
122.5°	755.7	756.5	758.3	760.1	761.9	763.6	763.0	759.9	756.9	753.8	750.8
125°	834.5	835.5	836.5	837.4	838.4	839.3	838.4	835.5	832.6	829.8	827.0
127.5°	911.1	912.3	913.4	914.5	915.7	916.8	915.6	912.0	908.3	904.7	901.2
130°	962.8	963.4	964.0	964.7	965.3	965.9	964.2	960.1	956.0	951.9	947.7
132.5°	1014.3	1015.7	1015.6	1015.4	1015.3	1015.2	1013.4	1010.1	1006.7	1003.4	1000.0
135°	1088.2	1088.4	1087.8	1087.2	1086.6	1085.9	1083.8	1080.3	1076.9	1073.5	1070.0
137.5°	1159.8	1160.1	1159.2	1158.4	1157.6	1156.8	1154.9	1152.1	1149.2	1146.4	1143.6
140°	1207.8	1207.8	1206.3	1204.7	1203.1	1201.5	1199.3	1196.5	1193.6	1190.7	1187.9
142.5°	1251.2	1251.0	1249.9	1248.9	1247.7	1246.7	1244.7	1241.9	1239.1	1236.2	1233.4
145°	1317.5	1317.2	1315.3	1313.4	1311.5	1309.7	1307.6	1305.3	1303.2	1301.0	1298.7
147.5°	1375.4	1374.6	1373.4	1372.1	1370.8	1369.6	1367.6	1365.0	1362.3	1359.6	1357.0
150°	1411.9	1411.0	1409.8	1408.4	1407.2	1405.9	1404.4	1402.5	1400.6	1398.6	1396.8
152.5°	1448.6	1447.4	1445.9	1444.4	1442.8	1441.3	1439.6	1437.7	1435.8	1433.9	1432.0
155°	1495.0	1493.4	1492.4	1491.5	1490.5	1489.6	1488.7	1487.7	1486.8	1485.8	1484.9
157.5°	1537.6	1535.5	1534.9	1534.4	1533.8	1533.2	1532.6	1532.0	1531.3	1530.7	1530.0
160°	1563.5	1561.6	1561.3	1560.9	1560.7	1560.4	1559.9	1559.2	1558.6	1558.0	1557.4
162.5°	1586.5	1584.3	1584.0	1583.8	1583.4	1583.1	1582.9	1582.7	1582.6	1582.5	1582.3
165°	1616.4	1614.2	1614.2	1614.2	1614.2	1614.2	1614.4	1614.7	1615.0	1615.3	1615.6
167.5°	1641.2	1638.9	1639.0	1639.1	1639.1	1639.2	1639.6	1640.6	1641.5	1642.5	1643.4
170°	1654.7	1652.6	1652.8	1653.2	1653.5	1653.8	1654.4	1655.4	1656.3	1657.3	1658.2
172.5°	1665.0	1662.7	1663.1	1663.4	1663.8	1664.1	1664.7	1665.7	1666.6	1667.5	1668.5
175°	1676.1	1673.9	1674.5	1675.1	1675.7	1676.4	1677.2	1678.1	1679.0	1680.0	1680.9
177.5°	1681.9	1680.4	1680.9	1681.4	1681.9	1682.4	1683.1	1683.9	1684.6	1685.4	1686.1
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1018.9	1019.7	1025.4	1027.9	1033.0	1035.0	1037.2	1036.6	1036.6	1037.7	1045.7
5°	1021.1	1028.1	1038.7	1048.9	1058.8	1067.2	1072.8	1078.5	1080.5	1090.8	1099.9
7.5°	1017.5	1030.4	1047.8	1063.4	1082.0	1096.6	1108.7	1119.6	1127.1	1142.0	1157.2
10°	1012.7	1031.0	1050.7	1070.7	1096.5	1115.8	1135.5	1150.7	1155.6	1177.7	1190.4
12.5°	1003.1	1027.6	1052.6	1078.6	1103.7	1130.4	1152.1	1167.2	1184.6	1204.5	1227.9
15°	988.7	1016.9	1049.6	1083.1	1119.0	1151.3	1174.6	1201.0	1219.9	1241.8	1262.2
17.5°	968.1	1004.4	1045.9	1084.7	1126.1	1160.9	1193.0	1218.2	1231.6	1244.1	1247.2
20°	951.8	990.8	1039.7	1085.5	1127.0	1167.2	1198.8	1219.9	1223.5	1223.8	1205.1
22.5°	934.1	978.2	1029.4	1076.2	1125.9	1170.5	1195.1	1204.2	1190.2	1166.4	1130.3
25°	901.4	952.4	1011.9	1065.5	1119.6	1161.9	1170.4	1154.5	1105.6	1054.1	989.1
27.5°	866.1	923.4	987.2	1046.7	1104.5	1130.7	1112.4	1055.3	967.1	890.6	797.8
30°	840.2	904.6	967.2	1033.8	1087.2	1098.5	1056.7	972.5	869.8	754.3	661.8
32.5°	810.6	878.1	947.0	1015.8	1060.5	1049.5	980.3	876.8	756.3	642.8	555.3
35°	768.4	838.1	912.3	981.3	1009.8	962.3	858.8	724.1	600.9	494.9	434.7
37.5°	719.6	795.5	872.7	936.0	934.1	854.8	713.9	574.7	471.2	408.5	365.6
40°	684.9	761.7	845.1	898.6	875.7	772.6	619.8	488.5	412.8	362.9	331.6
42.5°	651.8	728.8	811.6	854.1	814.4	687.6	535.4	432.5	370.0	331.1	305.7
45°	595.2	676.5	753.3	776.8	705.7	566.0	432.9	358.4	316.8	287.9	270.3
47.5°	540.0	619.9	689.9	690.4	594.2	459.0	365.2	310.1	274.7	252.3	239.5
50°	506.1	582.2	640.9	631.8	522.7	408.3	326.6	279.1	249.6	232.3	219.0
52.5°	468.2	541.9	592.8	566.8	462.1	359.3	292.0	252.1	227.6	212.6	200.7
55°	412.8	478.3	514.3	474.9	377.0	298.8	246.8	215.4	197.1	184.5	174.3
57.5°	358.6	412.6	435.2	389.3	310.5	247.8	208.7	185.2	167.0	158.0	152.7
60°	324.5	370.6	386.4	335.8	269.9	216.8	184.8	163.0	149.6	143.6	138.4
62.5°	291.1	328.7	335.3	288.8	235.4	189.8	162.3	143.8	135.0	129.2	124.2
65°	241.5	268.5	265.4	228.1	186.2	150.6	130.5	119.3	112.6	104.5	95.8
67.5°	198.8	215.4	205.4	177.4	142.1	117.1	104.0	95.5	87.2	79.5	77.5
70°	171.7	181.3	170.7	145.1	116.5	98.2	87.7	77.5	72.5	70.8	67.6
72.5°	145.9	149.2	137.8	115.7	94.8	81.3	71.1	65.3	62.7	61.2	59.1
75°	109.4	107.0	97.2	79.9	65.8	56.6	53.5	51.4	49.7	48.3	47.1
77.5°	76.9	73.2	64.5	53.3	45.8	41.5	39.6	38.5	37.6	36.9	35.8
80°	57.7	55.2	46.5	38.0	34.9	32.7	31.7	30.3	30.3	29.6	28.5
82.5°	42.2	39.5	31.9	27.9	26.1	24.9	24.0	23.2	22.9	23.1	22.3
85°	22.1	17.9	15.8	15.2	14.0	13.4	13.8	13.0	13.0	13.0	12.6
87.5°	7.8	7.2	7.6	8.1	9.4	10.8	12.0	13.4	15.0	14.6	14.8
90°	5.2	9.0	12.8	16.6	22.0	28.9	35.8	42.8	49.8	49.1	48.4
92.5°	28.1	30.8	33.6	36.4	38.6	40.2	41.9	43.5	45.1	45.3	45.4
95°	77.0	80.2	83.3	86.5	88.4	89.1	89.6	90.3	91.0	91.0	91.0
97.5°	137.8	140.5	143.4	146.1	148.1	149.3	150.5	151.7	152.9	152.9	152.9
100°	182.9	185.5	188.0	190.6	192.3	193.2	194.2	195.1	196.0	196.0	196.0
102.5°	230.3	232.2	234.2	236.3	237.9	239.1	240.3	241.5	242.7	243.0	243.2
105°	306.4	307.4	308.3	309.2	310.1	310.8	311.3	312.0	312.6	313.2	313.9
107.5°	384.7	386.2	387.6	388.9	389.6	389.6	389.6	389.6	389.6	389.8	390.1
110°	435.3	437.2	439.0	440.9	442.0	442.0	442.0	442.0	442.0	442.0	442.0





TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	489.8	491.7	493.6	495.5	496.3	496.1	495.9	495.6	495.3	494.6	493.8
115°	570.2	572.1	574.1	576.0	576.6	576.0	575.3	574.7	574.1	573.7	573.4
117.5°	651.0	653.6	656.1	658.6	659.0	657.2	655.4	653.7	652.0	651.2	650.4
120°	704.5	707.0	709.5	712.1	712.1	709.5	707.0	704.5	701.9	701.9	701.9
122.5°	753.8	756.9	759.9	763.0	763.6	761.9	760.1	758.3	756.5	755.7	755.0
125°	829.8	832.6	835.5	838.4	839.3	838.4	837.4	836.5	835.5	834.5	833.6
127.5°	904.7	908.3	912.0	915.6	916.8	915.7	914.5	913.4	912.3	911.1	909.9
130°	951.9	956.0	960.1	964.2	965.9	965.3	964.7	964.0	963.4	962.8	962.1
132.5°	1003.4	1006.7	1010.1	1013.4	1015.2	1015.3	1015.4	1015.6	1015.7	1014.3	1013.0
135°	1073.5	1076.9	1080.3	1083.8	1085.9	1086.6	1087.2	1087.8	1088.4	1088.2	1087.8
137.5°	1146.4	1149.2	1152.1	1154.9	1156.8	1157.6	1158.4	1159.2	1160.1	1159.8	1159.5
140°	1190.7	1193.6	1196.5	1199.3	1201.5	1203.1	1204.7	1206.3	1207.8	1207.8	1207.8
142.5°	1236.2	1239.1	1241.9	1244.7	1246.7	1247.7	1248.9	1249.9	1251.0	1251.2	1251.5
145°	1301.0	1303.2	1305.3	1307.6	1309.7	1311.5	1313.4	1315.3	1317.2	1317.5	1317.9
147.5°	1359.6	1362.3	1365.0	1367.6	1369.6	1370.8	1372.1	1373.4	1374.6	1375.4	1376.0
150°	1398.6	1400.6	1402.5	1404.4	1405.9	1407.2	1408.4	1409.8	1411.0	1411.9	1412.9
152.5°	1433.9	1435.8	1437.7	1439.6	1441.3	1442.8	1444.4	1445.9	1447.4	1448.6	1449.7
155°	1485.8	1486.8	1487.7	1488.7	1489.6	1490.5	1491.5	1492.4	1493.4	1495.0	1496.6
157.5°	1530.7	1531.3	1532.0	1532.6	1533.2	1533.8	1534.4	1534.9	1535.5	1537.6	1539.7
160°	1558.0	1558.6	1559.2	1559.9	1560.4	1560.7	1560.9	1561.3	1561.6	1563.5	1565.4
162.5°	1582.5	1582.6	1582.7	1582.9	1583.1	1583.4	1583.8	1584.0	1584.3	1586.5	1588.7
165°	1615.3	1615.0	1614.7	1614.4	1614.2	1614.2	1614.2	1614.2	1614.2	1616.4	1618.6
167.5°	1642.5	1641.5	1640.6	1639.6	1639.2	1639.1	1639.1	1639.0	1638.9	1641.2	1643.3
170°	1657.3	1656.3	1655.4	1654.4	1653.8	1653.5	1653.2	1652.8	1652.6	1654.7	1657.0
172.5°	1667.5	1666.6	1665.7	1664.7	1664.1	1663.8	1663.4	1663.1	1662.7	1665.0	1667.2
175°	1680.0	1679.0	1678.1	1677.2	1676.4	1675.7	1675.1	1674.5	1673.9	1676.1	1678.3
177.5°	1685.4	1684.6	1683.9	1683.1	1682.4	1681.9	1681.4	1680.9	1680.4	1681.9	1683.5
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1048.5	1052.2	1053.9	1053.9	1055.8	1055.0	1054.1
5°	1108.7	1115.4	1116.8	1123.1	1127.8	1126.3	1127.0
7.5°	1168.7	1179.4	1190.1	1194.9	1195.7	1198.5	1199.6
10°	1205.5	1214.4	1230.9	1228.4	1240.8	1247.7	1236.1
12.5°	1241.0	1252.9	1264.4	1267.5	1274.5	1276.8	1272.1
15°	1273.1	1279.4	1280.2	1278.4	1280.5	1278.7	1272.1
17.5°	1243.1	1232.8	1212.0	1202.1	1194.3	1182.8	1178.2
20°	1193.5	1163.3	1128.1	1114.0	1097.5	1065.1	1072.8
22.5°	1086.6	1052.1	1016.9	975.7	956.1	925.4	923.6
25°	920.1	860.6	795.1	749.3	722.6	692.0	678.6
27.5°	715.4	640.5	586.8	559.7	534.9	510.7	509.6
30°	580.8	524.4	483.0	459.7	444.6	434.3	436.5
32.5°	489.6	450.9	422.9	403.7	392.5	384.7	384.7
35°	400.2	373.8	355.8	347.8	339.7	334.0	334.4
37.5°	342.5	326.6	316.6	307.7	302.7	299.9	298.3
40°	312.9	299.9	292.2	286.9	282.7	278.8	278.1
42.5°	289.5	278.8	271.0	266.8	263.0	260.1	259.5
45°	256.9	248.2	241.1	236.5	234.8	232.3	232.3
47.5°	228.6	219.9	214.4	211.5	208.5	206.9	206.8
50°	209.4	202.7	197.8	196.0	193.6	192.6	192.2
52.5°	192.3	187.3	183.7	182.6	181.4	180.1	180.3
55°	168.9	166.2	164.8	163.6	161.9	159.8	161.2
57.5°	149.3	146.9	143.1	139.8	138.2	136.7	137.2
60°	135.5	130.5	125.6	121.8	120.7	117.5	117.5
62.5°	118.1	111.1	105.1	102.9	101.9	100.4	100.1
65°	90.8	88.0	86.6	85.2	84.5	84.5	83.8
67.5°	75.2	74.1	72.6	72.2	71.5	71.4	71.1
70°	66.5	65.1	64.4	64.1	63.3	63.7	62.7
72.5°	58.1	56.9	56.8	55.9	55.5	55.5	54.8
75°	45.7	45.7	45.4	45.1	44.4	44.0	44.4
77.5°	35.2	35.3	34.6	34.6	34.5	34.6	34.2
80°	28.2	28.5	28.2	27.8	27.4	27.8	27.4
82.5°	22.2	21.8	21.7	21.6	21.6	21.3	21.3
85°	12.6	13.0	12.6	12.3	12.3	12.3	12.6
87.5°	14.3	14.2	14.2	14.2	14.3	14.4	14.1
90°	47.9	47.2	47.0	47.4	47.7	48.0	48.4
92.5°	45.5	45.7	45.8	45.8	45.9	46.0	46.0
95°	91.0	91.0	90.6	90.0	89.4	88.7	88.1
97.5°	152.9	152.9	152.9	152.8	152.7	152.7	152.6
100°	196.0	196.0	196.0	195.6	195.3	195.0	194.6
102.5°	243.5	243.7	243.6	243.4	243.1	242.7	242.4
105°	314.5	315.1	315.5	315.5	315.5	315.5	315.5
107.5°	390.4	390.6	390.0	388.6	387.1	385.7	384.2
110°	442.0	442.0	441.4	440.5	439.5	438.6	437.6



TEST NUMBER: P331802-830

CATALOG NUMBER: S122RDIW-S485D1440U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	493.0	492.3	491.5	490.9	490.2	489.5	488.8
115°	573.1	572.8	572.1	571.2	570.2	569.3	568.4
117.5°	649.7	648.9	648.0	647.1	646.1	645.2	644.2
120°	701.9	701.9	701.4	700.5	699.6	698.6	697.7
122.5°	754.2	753.5	752.7	752.1	751.4	750.6	750.0
125°	832.6	831.7	831.1	830.8	830.5	830.2	829.8
127.5°	908.8	907.7	906.6	905.6	904.6	903.6	902.6
130°	961.5	960.8	959.9	958.7	957.4	956.1	954.9
132.5°	1011.5	1010.1	1008.9	1008.0	1006.9	1005.9	1004.8
135°	1087.5	1087.2	1086.6	1085.6	1084.7	1083.7	1082.8
137.5°	1159.3	1159.0	1158.3	1157.1	1155.7	1154.5	1153.2
140°	1207.8	1207.8	1207.2	1205.9	1204.7	1203.3	1202.1
142.5°	1251.8	1252.0	1251.5	1250.3	1249.0	1247.7	1246.4
145°	1318.1	1318.4	1318.0	1316.7	1315.5	1314.2	1313.0
147.5°	1376.7	1377.4	1377.1	1375.9	1374.7	1373.6	1372.3
150°	1413.8	1414.8	1414.8	1413.8	1412.9	1411.9	1411.0
152.5°	1451.0	1452.2	1452.2	1451.0	1449.7	1448.6	1447.4
155°	1498.2	1499.7	1500.1	1499.1	1498.2	1497.2	1496.3
157.5°	1541.9	1544.1	1544.4	1542.8	1541.3	1539.8	1538.3
160°	1567.3	1569.1	1569.5	1568.2	1567.0	1565.8	1564.4
162.5°	1590.8	1592.9	1593.3	1591.8	1590.3	1588.7	1587.1
165°	1620.8	1623.1	1623.3	1621.7	1620.2	1618.6	1617.0
167.5°	1645.6	1647.8	1648.0	1646.4	1644.7	1643.1	1641.4
170°	1659.2	1661.4	1661.5	1659.6	1657.7	1655.9	1654.0
172.5°	1669.4	1671.6	1671.8	1669.9	1668.0	1666.1	1664.2
175°	1680.5	1682.7	1682.9	1680.9	1679.0	1677.2	1675.3
177.5°	1685.0	1686.5	1686.5	1685.0	1683.5	1681.9	1680.4
180°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9

(END OF REPORT)