

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: P331817-930

Luminaire Tested: **S122RDIW-S675D1240U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331817-930  
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-S675D1240U930-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

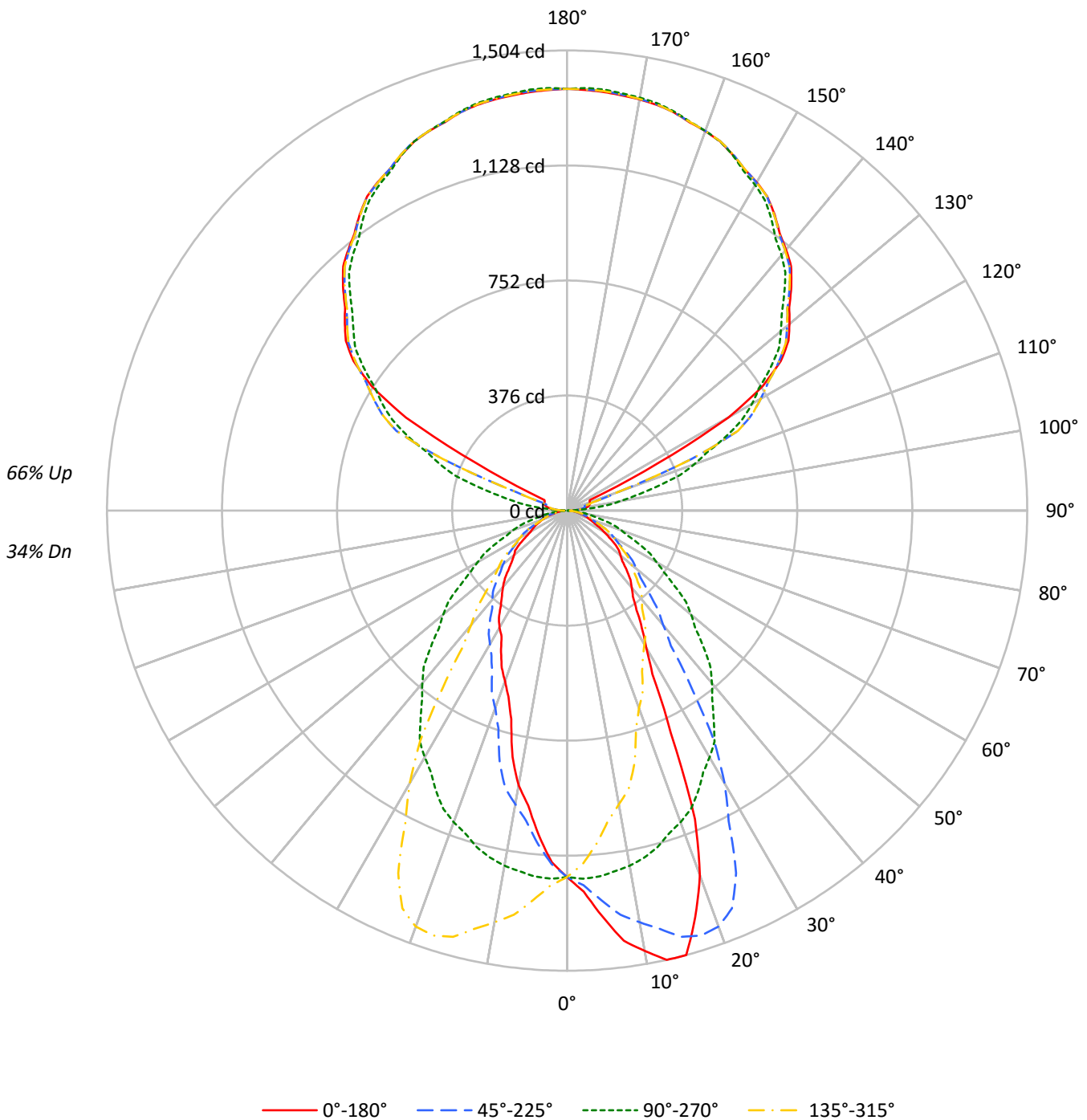
Lumens per Lamp: N/A  
Luminaire Lumens: 6112.5 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 61.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	95	91	87	84	85	82	79	76	66	64	62	51	50	49	37	37	36	30				
2	87	80	74	69	78	72	68	63	58	55	52	45	43	41	33	32	31	26				
3	79	71	64	58	72	64	58	54	52	48	44	41	38	36	30	29	27	22				
4	73	63	55	50	66	57	51	46	46	42	38	37	34	31	27	25	24	20				
5	67	56	49	43	60	51	45	40	42	37	33	33	30	27	25	23	21	18				
6	62	51	43	37	56	46	40	35	38	33	29	30	27	24	23	21	19	16				
7	57	46	38	33	52	42	35	31	34	30	26	28	24	22	21	19	17	14				
8	53	42	34	29	48	38	32	27	32	27	23	25	22	19	20	17	16	13				
9	50	38	31	26	45	35	29	24	29	24	21	23	20	18	18	16	14	12				
10	46	35	28	24	42	32	26	22	27	22	19	22	18	16	17	15	13	11				

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

	0°	90°	180°	270°
0°	19339	19339	19339	19339
5°	21598	19460	17253	19460
10°	23963	19323	14955	19323
15°	25142	19041	11784	19041
20°	21795	18620	10198	18620
25°	14295	18045	9103	18045
30°	9622	17350	8240	17350
35°	7792	16472	7433	16472
40°	6930	15517	6877	15517
45°	6272	14397	6140	14397
50°	5707	13288	5687	13288
55°	5365	12056	5295	12056
60°	4489	10924	4434	10924
65°	3786	9922	4290	9922
70°	3498	8861	4050	8861
75°	3269	7711	3737	7711
80°	3013	6341	3329	6341
85°	2779	5020	2927	5020



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.5	1.9
10°-20°	316.4	5.2
20°-30°	407.7	6.7
30°-40°	387.4	6.3
40°-50°	331.9	5.4
50°-60°	252.7	4.1
60°-70°	159.8	2.6
70°-80°	79.8	1.3
80°-90°	24.2	0.4
90°-100°	46.0	0.8
100°-110°	168.6	2.8
110°-120°	450.7	7.4
120°-130°	744.0	12.2
130°-140°	791.2	12.9
140°-150°	735.4	12.0
150°-160°	591.2	9.7
160°-170°	381.0	6.2
170°-180°	131.1	2.1
0°-30°	837.6	13.7
0°-40°	1225.0	20.0
0°-60°	1809.6	29.6
0°-90°	2073.4	33.9
90°-120°	665.3	10.9
90°-150°	2935.8	48.0
90°-180°	4039.0	66.1
0°-180°	6112.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1198	1198	1198	1198	1198	
5°	1333	1201	1064	1201	1333	132
15°	1504	1139	705	1139	1504	406
25°	802	1013	511	1013	802	381
35°	395	836	377	836	395	253
45°	275	630	269	630	275	213
55°	191	428	188	428	191	167
65°	99	260	112	260	99	101
75°	52	124	60	124	52	56
85°	15	27	16	27	15	17
90°	27	1	27	1	27	13
95°	43	65	43	65	43	40
105°	76	303	76	303	76	79
115°	82	574	82	574	82	205
125°	853	811	853	811	853	738
135°	1036	1003	1036	1003	1036	799
145°	1182	1164	1182	1164	1182	739
155°	1282	1282	1282	1282	1282	592
165°	1347	1350	1347	1350	1347	380
175°	1373	1381	1373	1381	1373	131
180°	1378	1378	1378	1378	1378	



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1246.3	1247.3	1248.4	1246.0	1246.0	1244.0	1239.7	1236.4	1227.0	1225.7	1225.7
5°	1332.6	1331.7	1333.4	1328.0	1320.5	1318.8	1310.9	1300.6	1289.7	1277.7	1275.1
7.5°	1418.3	1417.1	1413.7	1412.8	1407.0	1394.5	1381.8	1368.2	1350.2	1332.7	1323.9
10°	1461.6	1475.4	1467.0	1452.5	1455.4	1435.8	1425.4	1407.5	1392.5	1366.3	1360.5
12.5°	1504.2	1509.6	1507.0	1498.7	1494.9	1481.4	1467.4	1451.8	1424.2	1400.6	1380.1
15°	1504.1	1512.0	1514.0	1511.6	1513.6	1512.8	1505.3	1492.4	1468.3	1442.4	1420.0
17.5°	1393.0	1398.5	1412.2	1421.4	1433.1	1457.7	1469.8	1474.6	1471.0	1456.3	1440.5
20°	1268.5	1259.3	1297.6	1317.2	1333.8	1375.4	1411.2	1425.0	1447.0	1446.6	1442.4
22.5°	1092.0	1094.2	1130.5	1153.7	1202.3	1243.9	1284.7	1336.4	1379.1	1407.3	1423.8
25°	802.4	818.2	854.4	886.1	940.1	1017.6	1087.9	1169.5	1246.4	1307.2	1365.1
27.5°	602.6	603.8	632.5	661.7	693.8	757.2	845.8	943.2	1053.0	1143.5	1247.7
30°	516.1	513.6	525.6	543.6	571.0	620.1	686.6	782.4	891.9	1028.3	1149.9
32.5°	454.8	454.9	464.1	477.3	500.1	533.2	578.8	656.6	760.0	894.2	1036.7
35°	395.3	394.9	401.6	411.2	420.8	442.0	473.2	514.0	585.1	710.4	856.1
37.5°	352.8	354.6	357.8	363.8	374.4	386.2	405.0	432.4	483.0	557.1	679.6
40°	328.8	329.6	334.2	339.2	345.4	354.6	370.0	392.0	429.1	488.2	577.6
42.5°	306.8	307.6	310.9	315.5	320.4	329.6	342.3	361.4	391.4	437.6	511.4
45°	274.7	274.7	277.6	279.6	285.1	293.4	303.8	319.6	340.5	374.5	423.6
47.5°	244.5	244.6	246.5	250.1	253.6	260.0	270.3	283.2	298.3	324.7	366.6
50°	227.2	227.6	228.9	231.8	233.9	239.7	247.6	258.9	274.7	295.1	330.0
52.5°	213.3	213.0	214.6	215.8	217.3	221.4	227.3	237.3	251.4	269.1	298.1
55°	190.6	188.9	191.4	193.6	194.8	196.4	199.7	206.0	218.1	233.1	254.7
57.5°	162.3	161.7	163.4	165.3	169.3	173.7	176.5	180.5	186.8	197.5	219.0
60°	139.0	139.0	142.8	144.0	148.5	154.4	160.2	163.5	169.8	176.8	192.7
62.5°	118.4	118.7	120.4	121.7	124.3	131.4	139.6	146.9	152.8	159.6	170.1
65°	99.1	99.9	99.9	100.7	102.4	104.0	107.4	113.2	123.6	133.1	141.0
67.5°	84.1	84.3	84.5	85.4	85.9	87.6	88.9	91.6	94.0	103.1	112.8
70°	74.1	75.3	74.9	75.7	76.1	77.0	78.7	79.9	83.6	85.8	91.6
72.5°	64.7	65.6	65.6	66.1	67.2	67.3	68.6	70.0	72.3	74.1	77.2
75°	52.4	52.0	52.4	53.2	53.6	54.1	54.1	55.8	57.0	58.7	60.7
77.5°	40.4	40.8	40.8	40.8	40.9	41.7	41.6	42.4	43.6	44.4	45.4
80°	32.4	32.9	32.4	32.9	33.3	33.7	33.3	33.7	35.0	35.8	35.8
82.5°	25.1	25.2	25.4	25.5	25.6	25.7	26.3	26.4	27.3	27.1	27.5
85°	15.0	14.6	14.6	14.6	15.0	15.4	15.0	15.0	15.4	15.4	15.4
87.5°	10.7	10.9	10.8	10.8	10.7	10.5	10.4	10.4	9.9	9.9	9.3
90°	26.9	26.5	26.0	25.6	25.2	24.4	23.2	22.2	21.0	20.0	18.2
92.5°	26.9	26.7	26.4	26.1	25.8	25.4	24.9	24.3	23.7	23.2	22.3
95°	42.9	43.1	43.3	43.5	43.8	43.3	42.2	41.1	40.0	38.9	37.3
97.5°	57.2	57.0	56.7	56.4	56.2	55.6	54.7	53.8	52.9	52.1	48.5
100°	66.9	66.4	66.0	65.5	65.1	63.9	62.1	60.4	58.6	56.8	53.1
102.5°	71.6	71.0	70.4	69.7	69.1	67.7	65.4	63.0	60.7	58.5	89.9
105°	75.8	74.9	74.0	73.1	72.2	70.6	68.2	65.7	63.3	60.8	121.3
107.5°	78.0	77.1	76.2	75.3	74.4	75.3	77.7	80.2	82.7	85.2	157.8
110°	78.8	77.9	77.0	76.1	75.3	85.9	108.0	130.2	152.4	174.6	238.6



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	79.6	78.8	78.2	77.5	76.7	116.8	197.7	278.5	359.4	440.2	456.1
115°	81.8	97.8	113.7	129.6	145.6	204.9	307.5	410.1	512.7	615.4	609.8
117.5°	333.9	386.4	438.8	491.2	543.6	582.3	607.1	631.9	656.7	681.6	677.8
120°	608.4	638.3	668.2	698.1	728.1	741.7	739.0	736.4	733.7	731.0	727.1
122.5°	759.1	765.0	770.8	776.6	782.4	784.5	782.9	781.3	779.7	778.1	773.8
125°	852.7	852.1	851.4	850.7	850.0	849.0	847.4	845.9	844.3	842.8	838.5
127.5°	911.7	911.6	911.5	911.3	911.3	910.0	907.8	905.5	903.3	901.0	897.8
130°	948.4	948.7	948.9	949.1	949.3	948.2	945.8	943.4	940.9	938.5	936.0
132.5°	984.4	984.6	984.8	985.0	985.2	984.3	982.2	980.2	978.0	976.0	973.5
135°	1036.2	1036.7	1037.1	1037.5	1038.0	1037.1	1034.9	1032.7	1030.5	1028.3	1026.2
137.5°	1083.5	1084.3	1085.0	1085.7	1086.5	1085.8	1083.6	1081.4	1079.3	1077.1	1074.8
140°	1113.0	1114.1	1115.2	1116.3	1117.4	1117.0	1115.0	1113.0	1111.0	1109.1	1106.6
142.5°	1141.7	1142.8	1143.9	1145.1	1146.1	1145.8	1144.0	1142.2	1140.4	1138.6	1135.7
145°	1181.9	1182.9	1184.1	1185.1	1186.3	1186.0	1184.5	1182.9	1181.4	1179.8	1176.1
147.5°	1217.2	1218.1	1219.0	1219.9	1220.8	1220.7	1219.6	1218.5	1217.3	1216.1	1212.4
150°	1238.7	1239.7	1240.9	1242.0	1243.1	1243.0	1241.7	1240.3	1239.0	1237.7	1234.1
152.5°	1257.0	1258.5	1260.0	1261.4	1262.9	1263.0	1261.6	1260.3	1259.0	1257.6	1254.3
155°	1282.5	1284.3	1286.1	1287.8	1289.6	1289.9	1288.6	1287.2	1285.9	1284.6	1281.9
157.5°	1305.9	1307.7	1309.4	1311.1	1312.8	1313.0	1311.4	1309.9	1308.4	1306.9	1305.0
160°	1319.5	1321.0	1322.6	1324.1	1325.7	1325.8	1324.5	1323.1	1321.8	1320.5	1319.2
162.5°	1330.6	1332.5	1334.4	1336.4	1338.2	1338.5	1336.9	1335.5	1333.9	1332.4	1331.3
165°	1347.4	1348.9	1350.5	1352.0	1353.6	1353.6	1352.0	1350.5	1348.9	1347.4	1346.7
167.5°	1358.0	1359.9	1362.0	1363.9	1366.0	1366.1	1364.6	1363.0	1361.5	1359.9	1359.3
170°	1364.3	1366.4	1368.3	1370.4	1372.3	1372.6	1371.0	1369.5	1367.9	1366.4	1365.9
172.5°	1369.1	1371.1	1373.1	1375.1	1377.1	1377.3	1375.7	1374.2	1372.6	1371.1	1370.7
175°	1373.3	1375.5	1377.8	1380.0	1382.2	1382.5	1381.0	1379.4	1377.9	1376.3	1375.9
177.5°	1375.9	1377.5	1379.1	1380.7	1382.3	1382.5	1381.2	1380.0	1378.8	1377.5	1377.3
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1226.4	1223.7	1221.4	1215.4	1212.4	1205.7	1204.8	1204.4	1195.7	1187.4	1185.1
5°	1268.5	1261.8	1251.8	1240.2	1228.1	1215.6	1207.3	1200.7	1184.0	1168.2	1159.0
7.5°	1310.9	1296.7	1279.4	1257.4	1238.9	1218.3	1203.0	1189.3	1165.6	1143.0	1127.7
10°	1342.6	1319.2	1296.4	1266.0	1242.3	1219.0	1197.3	1178.6	1151.9	1122.0	1100.7
12.5°	1362.2	1336.6	1305.0	1275.3	1244.6	1215.0	1186.0	1162.0	1130.7	1099.7	1074.5
15°	1388.8	1361.3	1323.0	1280.6	1241.0	1202.3	1169.1	1139.1	1098.3	1061.3	1030.5
17.5°	1410.5	1372.7	1331.5	1282.5	1236.7	1187.5	1144.6	1106.4	1060.9	1016.3	980.0
20°	1417.5	1380.1	1332.6	1283.4	1229.4	1171.5	1125.4	1083.7	1035.0	986.3	944.7
22.5°	1413.2	1384.1	1331.2	1272.5	1217.1	1156.5	1104.3	1056.1	1002.1	952.4	904.1
25°	1383.8	1373.8	1323.9	1259.7	1196.5	1126.2	1065.8	1012.9	951.4	898.1	845.6
27.5°	1315.2	1336.8	1305.9	1237.6	1167.3	1091.8	1024.0	963.8	899.9	840.0	787.7
30°	1249.4	1298.9	1285.6	1222.3	1143.6	1069.6	993.4	930.6	862.3	800.7	749.1
32.5°	1159.1	1241.0	1253.9	1201.0	1119.7	1038.3	958.5	895.9	824.7	759.8	709.5
35°	1015.5	1137.8	1194.0	1160.3	1078.7	990.9	908.5	835.7	764.1	700.0	650.0
37.5°	844.1	1010.7	1104.3	1106.8	1031.8	940.5	850.8	778.5	705.2	642.3	588.3
40°	732.9	913.5	1035.4	1062.5	999.2	900.6	809.8	736.2	664.6	603.0	541.0
42.5°	633.0	812.9	962.9	1009.9	959.6	861.6	770.6	693.6	624.0	565.7	502.4
45°	511.9	669.2	834.5	918.5	890.6	799.9	703.8	630.5	565.2	514.8	454.0
47.5°	431.8	542.7	702.5	816.3	815.8	733.0	638.4	568.3	507.7	460.5	411.2
50°	386.2	482.7	618.0	747.1	757.8	688.4	598.4	529.0	472.4	422.8	383.3
52.5°	345.3	424.9	546.4	670.1	700.9	640.7	553.5	489.3	434.4	388.9	355.0
55°	291.7	353.4	445.7	561.4	608.1	565.6	488.2	428.3	383.7	345.4	316.3
57.5°	246.8	293.0	367.1	460.3	514.5	487.9	424.0	375.3	337.2	302.6	279.6
60°	218.5	256.3	319.2	397.1	457.0	438.2	383.7	338.3	305.9	275.9	254.3
62.5°	191.8	224.4	278.3	341.4	396.4	388.7	344.1	306.1	277.6	250.3	232.0
65°	154.4	178.1	220.1	269.7	313.8	317.6	285.5	259.7	234.3	212.6	196.4
67.5°	122.9	138.4	168.0	209.8	242.8	254.6	235.1	215.3	195.2	178.5	164.4
70°	103.6	116.1	137.8	171.5	201.9	214.3	203.1	187.7	170.2	156.5	144.4
72.5°	84.0	96.1	112.1	136.8	162.9	176.3	172.4	161.4	147.2	135.8	124.4
75°	63.3	67.0	77.9	94.5	114.9	126.5	129.5	123.6	112.3	103.6	96.9
77.5°	46.8	49.0	54.2	62.9	76.2	86.7	90.9	90.3	82.5	77.4	71.2
80°	37.4	38.7	41.2	44.9	55.0	65.3	68.2	68.2	62.9	60.7	54.5
82.5°	28.5	29.4	30.9	32.9	37.6	46.7	50.0	50.6	47.2	44.4	39.5
85°	16.2	15.8	16.6	17.9	18.8	21.2	26.3	27.1	26.3	22.9	21.6
87.5°	9.0	8.9	8.6	7.8	7.7	7.5	8.6	9.9	9.0	8.5	8.3
90°	16.4	14.6	12.9	10.8	8.3	5.9	3.4	1.0	3.4	5.9	8.3
92.5°	21.4	20.5	19.6	19.2	19.5	19.7	19.9	20.1	19.9	19.7	19.5
95°	35.8	34.2	32.7	35.5	42.9	50.2	57.5	64.8	57.5	50.2	42.9
97.5°	44.8	41.3	37.7	46.2	66.9	87.4	108.0	128.7	108.0	87.4	66.9
100°	49.3	45.6	41.7	55.1	85.4	115.8	146.2	176.5	146.2	115.8	85.4
102.5°	121.5	153.0	184.5	203.5	209.9	216.3	222.7	229.2	222.7	216.3	209.9
105°	181.8	242.4	302.9	329.8	323.1	316.5	309.8	303.2	309.8	316.5	323.1
107.5°	230.3	302.9	375.4	409.0	403.7	398.3	392.9	387.6	392.9	398.3	403.7
110°	302.6	366.7	430.7	460.4	455.8	451.1	446.5	441.8	446.5	451.1	455.8





TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	471.9	487.7	503.5	509.4	505.2	501.1	497.0	492.8	497.0	501.1	505.2
115°	604.3	598.8	593.2	588.6	584.7	581.0	577.2	573.5	577.2	581.0	584.7
117.5°	673.9	670.1	666.3	662.3	658.1	653.9	649.7	645.5	649.7	653.9	658.1
120°	723.1	719.1	715.1	711.4	708.1	704.7	701.5	698.1	701.5	704.7	708.1
122.5°	769.4	765.1	760.8	756.8	753.3	749.8	746.3	742.8	746.3	749.8	753.3
125°	834.3	830.1	825.9	822.3	819.5	816.6	813.7	810.8	813.7	816.6	819.5
127.5°	894.7	891.5	888.4	885.3	882.1	878.8	875.6	872.5	875.6	878.8	882.1
130°	933.6	931.2	928.7	925.8	922.2	918.7	915.1	911.6	915.1	918.7	922.2
132.5°	971.1	968.7	966.2	963.5	960.5	957.5	954.5	951.5	954.5	957.5	960.5
135°	1024.3	1022.2	1020.3	1017.5	1013.9	1010.4	1006.8	1003.3	1006.8	1010.4	1013.9
137.5°	1072.6	1070.3	1068.0	1065.7	1063.2	1060.7	1058.3	1055.7	1058.3	1060.7	1063.2
140°	1104.2	1101.7	1099.3	1097.1	1095.4	1093.6	1091.8	1090.1	1091.8	1093.6	1095.4
142.5°	1132.9	1130.2	1127.4	1125.2	1123.6	1122.0	1120.4	1118.8	1120.4	1122.0	1123.6
145°	1172.3	1168.6	1164.7	1163.0	1163.2	1163.4	1163.7	1163.8	1163.7	1163.4	1163.2
147.5°	1208.7	1204.9	1201.3	1199.8	1200.6	1201.5	1202.3	1203.1	1202.3	1201.5	1200.6
150°	1230.6	1227.0	1223.5	1222.5	1224.0	1225.6	1227.2	1228.7	1227.2	1225.6	1224.0
152.5°	1250.9	1247.5	1244.1	1243.3	1245.0	1246.8	1248.5	1250.3	1248.5	1246.8	1245.0
155°	1279.2	1276.6	1273.9	1273.6	1275.5	1277.6	1279.5	1281.6	1279.5	1277.6	1275.5
157.5°	1303.2	1301.3	1299.4	1299.3	1301.1	1302.7	1304.4	1306.1	1304.4	1302.7	1301.1
160°	1317.8	1316.5	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5	1319.2	1317.8	1316.5
162.5°	1330.1	1328.9	1327.8	1327.9	1329.3	1330.6	1331.9	1333.3	1331.9	1330.6	1329.3
165°	1346.1	1345.4	1344.8	1345.1	1346.4	1347.7	1349.1	1350.4	1349.1	1347.7	1346.4
167.5°	1358.7	1358.1	1357.5	1357.8	1359.2	1360.5	1361.8	1363.2	1361.8	1360.5	1359.2
170°	1365.5	1365.0	1364.6	1365.0	1366.4	1367.7	1369.0	1370.4	1369.0	1367.7	1366.4
172.5°	1370.2	1369.8	1369.4	1369.8	1371.1	1372.5	1373.8	1375.1	1373.8	1372.5	1371.1
175°	1375.4	1375.0	1374.5	1375.1	1376.6	1378.2	1379.7	1381.3	1379.7	1378.2	1376.6
177.5°	1377.1	1377.0	1376.8	1377.3	1378.6	1379.8	1381.0	1382.3	1381.0	1379.8	1378.6
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1180.8	1178.4	1174.1	1167.4	1163.4	1156.4	1151.8	1154.5	1155.1	1154.5	1153.8
5°	1149.1	1140.3	1128.2	1116.6	1105.8	1094.1	1087.4	1084.5	1078.7	1075.4	1073.7
7.5°	1110.7	1095.6	1078.6	1058.3	1041.0	1023.0	1013.7	1009.1	997.2	990.8	985.0
10°	1082.1	1058.3	1041.3	1014.6	998.4	974.7	958.5	958.9	942.6	933.4	926.8
12.5°	1050.4	1024.3	996.0	972.0	949.4	930.4	910.9	902.9	885.7	876.9	858.9
15°	998.0	967.6	937.7	905.1	882.3	852.7	824.4	789.9	762.0	737.8	731.2
17.5°	940.7	903.1	873.0	834.9	795.7	746.0	713.2	693.2	676.4	663.7	654.1
20°	901.4	863.2	831.1	773.6	720.8	687.1	663.0	647.6	630.1	616.4	608.9
22.5°	860.1	820.2	776.5	712.4	671.2	644.2	622.6	605.0	593.1	582.4	575.6
25°	801.5	757.8	685.8	641.7	608.5	580.2	565.2	554.3	541.8	527.3	520.7
27.5°	739.6	670.1	618.4	585.6	553.8	535.4	522.0	505.8	494.6	488.1	481.2
30°	693.3	623.9	583.5	547.7	525.2	504.8	489.0	479.9	469.0	457.8	453.2
32.5°	641.7	586.2	547.6	517.7	494.9	477.5	465.0	450.2	442.4	435.5	425.9
35°	577.6	535.7	500.3	476.1	454.4	440.3	425.7	417.0	402.8	397.1	393.3
37.5°	523.3	486.9	460.6	435.0	417.9	402.3	393.4	379.4	373.3	365.3	357.3
40°	492.8	457.0	431.5	410.7	391.6	379.9	368.8	357.5	348.3	344.6	335.0
42.5°	461.5	432.4	406.9	384.1	371.3	359.0	344.8	336.6	327.0	321.0	315.0
45°	418.2	392.5	370.8	352.0	337.9	325.1	315.8	302.1	296.8	284.6	279.6
47.5°	380.3	356.3	335.7	317.9	304.0	295.6	282.3	271.5	262.9	255.4	249.1
50°	353.4	333.4	313.4	297.6	285.1	273.0	259.3	253.9	240.5	236.8	233.1
52.5°	328.7	309.7	291.4	275.9	263.4	251.7	239.6	232.5	223.6	219.8	217.1
55°	294.2	275.9	258.4	244.7	232.2	220.1	212.6	203.9	199.7	196.8	193.6
57.5°	259.6	243.1	229.8	215.8	203.3	193.7	185.0	179.8	175.5	171.6	167.6
60°	237.7	221.8	209.8	196.8	183.9	176.0	169.4	163.1	158.2	152.3	150.7
62.5°	214.3	200.5	189.5	176.8	165.7	158.4	152.1	146.2	140.1	131.7	129.3
65°	182.3	171.5	159.8	149.4	139.4	132.3	123.2	116.5	114.1	113.2	112.8
67.5°	153.4	143.1	133.1	122.5	113.3	106.8	102.2	101.1	99.4	98.9	97.8
70°	134.0	124.4	114.5	104.4	95.7	94.5	92.8	91.2	89.0	88.2	87.4
72.5°	116.7	106.8	96.8	88.8	85.0	83.5	81.9	80.1	78.8	77.9	77.4
75°	89.4	80.3	73.7	70.8	68.6	67.4	64.9	63.7	62.9	61.6	61.1
77.5°	64.4	59.3	56.2	54.4	52.2	50.9	49.4	48.2	47.3	47.0	46.4
80°	49.1	46.6	44.5	42.1	41.2	39.5	39.1	37.9	38.3	37.0	37.0
82.5°	38.2	35.0	33.2	32.0	31.2	29.9	29.4	28.9	28.9	28.0	28.0
85°	19.6	18.8	17.9	17.0	17.0	15.8	16.2	15.8	15.8	15.0	14.6
87.5°	8.5	8.6	8.2	8.6	9.0	9.0	9.2	9.1	9.3	9.5	9.4
90°	10.8	12.9	14.6	16.4	18.2	20.0	21.0	22.2	23.2	24.4	25.2
92.5°	19.2	19.6	20.5	21.4	22.3	23.2	23.7	24.3	24.9	25.4	25.8
95°	35.5	32.7	34.2	35.8	37.3	38.9	40.0	41.1	42.2	43.3	43.8
97.5°	46.2	37.7	41.3	44.8	48.5	52.1	52.9	53.8	54.7	55.6	56.2
100°	55.1	41.7	45.6	49.3	53.1	56.8	58.6	60.4	62.1	63.9	65.1
102.5°	203.5	184.5	153.0	121.5	89.9	58.5	60.7	63.0	65.4	67.7	69.1
105°	329.8	302.9	242.4	181.8	121.3	60.8	63.3	65.7	68.2	70.6	72.2
107.5°	409.0	375.4	302.9	230.3	157.8	85.2	82.7	80.2	77.7	75.3	74.4
110°	460.4	430.7	366.7	302.6	238.6	174.6	152.4	130.2	108.0	85.9	75.3



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	509.4	503.5	487.7	471.9	456.1	440.2	359.4	278.5	197.7	116.8	76.7
115°	588.6	593.2	598.8	604.3	609.8	615.4	512.7	410.1	307.5	204.9	145.6
117.5°	662.3	666.3	670.1	673.9	677.8	681.6	656.7	631.9	607.1	582.3	543.6
120°	711.4	715.1	719.1	723.1	727.1	731.0	733.7	736.4	739.0	741.7	728.1
122.5°	756.8	760.8	765.1	769.4	773.8	778.1	779.7	781.3	782.9	784.5	782.4
125°	822.3	825.9	830.1	834.3	838.5	842.8	844.3	845.9	847.4	849.0	850.0
127.5°	885.3	888.4	891.5	894.7	897.8	901.0	903.3	905.5	907.8	910.0	911.3
130°	925.8	928.7	931.2	933.6	936.0	938.5	940.9	943.4	945.8	948.2	949.3
132.5°	963.5	966.2	968.7	971.1	973.5	976.0	978.0	980.2	982.2	984.3	985.2
135°	1017.5	1020.3	1022.2	1024.3	1026.2	1028.3	1030.5	1032.7	1034.9	1037.1	1038.0
137.5°	1065.7	1068.0	1070.3	1072.6	1074.8	1077.1	1079.3	1081.4	1083.6	1085.8	1086.5
140°	1097.1	1099.3	1101.7	1104.2	1106.6	1109.1	1111.0	1113.0	1115.0	1117.0	1117.4
142.5°	1125.2	1127.4	1130.2	1132.9	1135.7	1138.6	1140.4	1142.2	1144.0	1145.8	1146.1
145°	1163.0	1164.7	1168.6	1172.3	1176.1	1179.8	1181.4	1182.9	1184.5	1186.0	1186.3
147.5°	1199.8	1201.3	1204.9	1208.7	1212.4	1216.1	1217.3	1218.5	1219.6	1220.7	1220.8
150°	1222.5	1223.5	1227.0	1230.6	1234.1	1237.7	1239.0	1240.3	1241.7	1243.0	1243.1
152.5°	1243.3	1244.1	1247.5	1250.9	1254.3	1257.6	1259.0	1260.3	1261.6	1263.0	1262.9
155°	1273.6	1273.9	1276.6	1279.2	1281.9	1284.6	1285.9	1287.2	1288.6	1289.9	1289.6
157.5°	1299.3	1299.4	1301.3	1303.2	1305.0	1306.9	1308.4	1309.9	1311.4	1313.0	1312.8
160°	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5	1321.8	1323.1	1324.5	1325.8	1325.7
162.5°	1327.9	1327.8	1328.9	1330.1	1331.3	1332.4	1333.9	1335.5	1336.9	1338.5	1338.2
165°	1345.1	1344.8	1345.4	1346.1	1346.7	1347.4	1348.9	1350.5	1352.0	1353.6	1353.6
167.5°	1357.8	1357.5	1358.1	1358.7	1359.3	1359.9	1361.5	1363.0	1364.6	1366.1	1366.0
170°	1365.0	1364.6	1365.0	1365.5	1365.9	1366.4	1367.9	1369.5	1371.0	1372.6	1372.3
172.5°	1369.8	1369.4	1369.8	1370.2	1370.7	1371.1	1372.6	1374.2	1375.7	1377.3	1377.1
175°	1375.1	1374.5	1375.0	1375.4	1375.9	1376.3	1377.9	1379.4	1381.0	1382.5	1382.2
177.5°	1377.3	1376.8	1377.0	1377.1	1377.3	1377.5	1378.8	1380.0	1381.2	1382.5	1382.3
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1150.1	1150.8	1149.8	1150.5	1149.8	1150.8	1150.1	1153.8	1154.5	1155.1	1154.5
5°	1071.6	1066.7	1065.8	1064.5	1065.8	1066.7	1071.6	1073.7	1075.4	1078.7	1084.5
7.5°	978.0	977.1	975.1	972.2	975.1	977.1	978.0	985.0	990.8	997.2	1009.1
10°	917.6	915.6	915.2	912.2	915.2	915.6	917.6	926.8	933.4	942.6	958.9
12.5°	847.1	833.6	832.3	825.0	832.3	833.6	847.1	858.9	876.9	885.7	902.9
15°	721.2	718.8	710.4	705.0	710.4	718.8	721.2	731.2	737.8	762.0	789.9
17.5°	649.3	641.2	638.5	637.4	638.5	641.2	649.3	654.1	663.7	676.4	693.2
20°	603.0	595.6	594.3	593.5	594.3	595.6	603.0	608.9	616.4	630.1	647.6
22.5°	571.0	563.2	560.0	557.5	560.0	563.2	571.0	575.6	582.4	593.1	605.0
25°	516.5	513.6	511.9	511.0	511.9	513.6	516.5	520.7	527.3	541.8	554.3
27.5°	473.8	467.3	466.1	464.0	466.1	467.3	473.8	481.2	488.1	494.6	505.8
30°	449.5	447.4	444.5	442.0	444.5	447.4	449.5	453.2	457.8	469.0	479.9
32.5°	420.9	419.1	416.5	415.3	416.5	419.1	420.9	425.9	435.5	442.4	450.2
35°	389.1	383.3	380.8	377.1	380.8	383.3	389.1	393.3	397.1	402.8	417.0
37.5°	355.6	352.5	349.0	350.3	349.0	352.5	355.6	357.3	365.3	373.3	379.4
40°	329.6	327.5	326.7	326.3	326.7	327.5	329.6	335.0	344.6	348.3	357.5
42.5°	309.0	303.2	301.1	301.0	301.1	303.2	309.0	315.0	321.0	327.0	336.6
45°	277.6	272.1	268.4	268.9	268.4	272.1	277.6	279.6	284.6	296.8	302.1
47.5°	245.5	245.3	243.0	243.7	243.0	245.3	245.5	249.1	255.4	262.9	271.5
50°	230.2	227.6	226.0	226.4	226.0	227.6	230.2	233.1	236.8	240.5	253.9
52.5°	215.5	213.4	212.0	213.8	212.0	213.4	215.5	217.1	219.8	223.6	232.5
55°	191.4	188.9	188.5	188.1	188.5	188.9	191.4	193.6	196.8	199.7	203.9
57.5°	164.5	162.9	160.4	159.3	160.4	162.9	164.5	167.6	171.6	175.5	179.8
60°	145.2	141.9	137.8	137.3	137.8	141.9	145.2	150.7	152.3	158.2	163.1
62.5°	127.6	126.9	126.1	126.0	126.1	126.9	127.6	129.3	131.7	140.1	146.2
65°	111.9	111.5	111.9	112.3	111.9	111.5	111.9	112.8	113.2	114.1	116.5
67.5°	97.6	96.8	96.0	96.4	96.0	96.8	97.6	97.8	98.9	99.4	101.1
70°	86.6	86.2	85.8	85.8	85.8	86.2	86.6	87.4	88.2	89.0	91.2
72.5°	75.9	75.8	75.4	75.1	75.4	75.8	75.9	77.4	77.9	78.8	80.1
75°	60.7	59.9	59.9	59.9	59.9	59.9	60.7	61.1	61.6	62.9	63.7
77.5°	46.3	45.9	45.4	45.1	45.4	45.9	46.3	46.4	47.0	47.3	48.2
80°	36.6	36.2	35.8	35.8	35.8	36.2	36.6	37.0	37.0	38.3	37.9
82.5°	28.0	27.6	27.5	27.1	27.5	27.6	28.0	28.0	28.0	28.9	28.9
85°	15.0	15.4	15.0	15.8	15.0	15.4	15.0	14.6	15.0	15.8	15.8
87.5°	9.5	9.2	9.6	9.4	9.6	9.2	9.5	9.4	9.5	9.3	9.1
90°	25.6	26.0	26.5	26.9	26.5	26.0	25.6	25.2	24.4	23.2	22.2
92.5°	26.1	26.4	26.7	26.9	26.7	26.4	26.1	25.8	25.4	24.9	24.3
95°	43.5	43.3	43.1	42.9	43.1	43.3	43.5	43.8	43.3	42.2	41.1
97.5°	56.4	56.7	57.0	57.2	57.0	56.7	56.4	56.2	55.6	54.7	53.8
100°	65.5	66.0	66.4	66.9	66.4	66.0	65.5	65.1	63.9	62.1	60.4
102.5°	69.7	70.4	71.0	71.6	71.0	70.4	69.7	69.1	67.7	65.4	63.0
105°	73.1	74.0	74.9	75.8	74.9	74.0	73.1	72.2	70.6	68.2	65.7
107.5°	75.3	76.2	77.1	78.0	77.1	76.2	75.3	74.4	75.3	77.7	80.2
110°	76.1	77.0	77.9	78.8	77.9	77.0	76.1	75.3	85.9	108.0	130.2



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	77.5	78.2	78.8	79.6	78.8	78.2	77.5	76.7	116.8	197.7	278.5
115°	129.6	113.7	97.8	81.8	97.8	113.7	129.6	145.6	204.9	307.5	410.1
117.5°	491.2	438.8	386.4	333.9	386.4	438.8	491.2	543.6	582.3	607.1	631.9
120°	698.1	668.2	638.3	608.4	638.3	668.2	698.1	728.1	741.7	739.0	736.4
122.5°	776.6	770.8	765.0	759.1	765.0	770.8	776.6	782.4	784.5	782.9	781.3
125°	850.7	851.4	852.1	852.7	852.1	851.4	850.7	850.0	849.0	847.4	845.9
127.5°	911.3	911.5	911.6	911.7	911.6	911.5	911.3	911.3	910.0	907.8	905.5
130°	949.1	948.9	948.7	948.4	948.7	948.9	949.1	949.3	948.2	945.8	943.4
132.5°	985.0	984.8	984.6	984.4	984.6	984.8	985.0	985.2	984.3	982.2	980.2
135°	1037.5	1037.1	1036.7	1036.2	1036.7	1037.1	1037.5	1038.0	1037.1	1034.9	1032.7
137.5°	1085.7	1085.0	1084.3	1083.5	1084.3	1085.0	1085.7	1086.5	1085.8	1083.6	1081.4
140°	1116.3	1115.2	1114.1	1113.0	1114.1	1115.2	1116.3	1117.4	1117.0	1115.0	1113.0
142.5°	1145.1	1143.9	1142.8	1141.7	1142.8	1143.9	1145.1	1146.1	1145.8	1144.0	1142.2
145°	1185.1	1184.1	1182.9	1181.9	1182.9	1184.1	1185.1	1186.3	1186.0	1184.5	1182.9
147.5°	1219.9	1219.0	1218.1	1217.2	1218.1	1219.0	1219.9	1220.8	1220.7	1219.6	1218.5
150°	1242.0	1240.9	1239.7	1238.7	1239.7	1240.9	1242.0	1243.1	1243.0	1241.7	1240.3
152.5°	1261.4	1260.0	1258.5	1257.0	1258.5	1260.0	1261.4	1262.9	1263.0	1261.6	1260.3
155°	1287.8	1286.1	1284.3	1282.5	1284.3	1286.1	1287.8	1289.6	1289.9	1288.6	1287.2
157.5°	1311.1	1309.4	1307.7	1305.9	1307.7	1309.4	1311.1	1312.8	1313.0	1311.4	1309.9
160°	1324.1	1322.6	1321.0	1319.5	1321.0	1322.6	1324.1	1325.7	1325.8	1324.5	1323.1
162.5°	1336.4	1334.4	1332.5	1330.6	1332.5	1334.4	1336.4	1338.2	1338.5	1336.9	1335.5
165°	1352.0	1350.5	1348.9	1347.4	1348.9	1350.5	1352.0	1353.6	1353.6	1352.0	1350.5
167.5°	1363.9	1362.0	1359.9	1358.0	1359.9	1362.0	1363.9	1366.0	1366.1	1364.6	1363.0
170°	1370.4	1368.3	1366.4	1364.3	1366.4	1368.3	1370.4	1372.3	1372.6	1371.0	1369.5
172.5°	1375.1	1373.1	1371.1	1369.1	1371.1	1373.1	1375.1	1377.1	1377.3	1375.7	1374.2
175°	1380.0	1377.8	1375.5	1373.3	1375.5	1377.8	1380.0	1382.2	1382.5	1381.0	1379.4
177.5°	1380.7	1379.1	1377.5	1375.9	1377.5	1379.1	1380.7	1382.3	1382.5	1381.2	1380.0
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1151.8	1156.4	1163.4	1167.4	1174.1	1178.4	1180.8	1185.1	1187.4	1195.7	1204.4
5°	1087.4	1094.1	1105.8	1116.6	1128.2	1140.3	1149.1	1159.0	1168.2	1184.0	1200.7
7.5°	1013.7	1023.0	1041.0	1058.3	1078.6	1095.6	1110.7	1127.7	1143.0	1165.6	1189.3
10°	958.5	974.7	998.4	1014.6	1041.3	1058.3	1082.1	1100.7	1122.0	1151.9	1178.6
12.5°	910.9	930.4	949.4	972.0	996.0	1024.3	1050.4	1074.5	1099.7	1130.7	1162.0
15°	824.4	852.7	882.3	905.1	937.7	967.6	998.0	1030.5	1061.3	1098.3	1139.1
17.5°	713.2	746.0	795.7	834.9	873.0	903.1	940.7	980.0	1016.3	1060.9	1106.4
20°	663.0	687.1	720.8	773.6	831.1	863.2	901.4	944.7	986.3	1035.0	1083.7
22.5°	622.6	644.2	671.2	712.4	776.5	820.2	860.1	904.1	952.4	1002.1	1056.1
25°	565.2	580.2	608.5	641.7	685.8	757.8	801.5	845.6	898.1	951.4	1012.9
27.5°	522.0	535.4	553.8	585.6	618.4	670.1	739.6	787.7	840.0	899.9	963.8
30°	489.0	504.8	525.2	547.7	583.5	623.9	693.3	749.1	800.7	862.3	930.6
32.5°	465.0	477.5	494.9	517.7	547.6	586.2	641.7	709.5	759.8	824.7	895.9
35°	425.7	440.3	454.4	476.1	500.3	535.7	577.6	650.0	700.0	764.1	835.7
37.5°	393.4	402.3	417.9	435.0	460.6	486.9	523.3	588.3	642.3	705.2	778.5
40°	368.8	379.9	391.6	410.7	431.5	457.0	492.8	541.0	603.0	664.6	736.2
42.5°	344.8	359.0	371.3	384.1	406.9	432.4	461.5	502.4	565.7	624.0	693.6
45°	315.8	325.1	337.9	352.0	370.8	392.5	418.2	454.0	514.8	565.2	630.5
47.5°	282.3	295.6	304.0	317.9	335.7	356.3	380.3	411.2	460.5	507.7	568.3
50°	259.3	273.0	285.1	297.6	313.4	333.4	353.4	383.3	422.8	472.4	529.0
52.5°	239.6	251.7	263.4	275.9	291.4	309.7	328.7	355.0	388.9	434.4	489.3
55°	212.6	220.1	232.2	244.7	258.4	275.9	294.2	316.3	345.4	383.7	428.3
57.5°	185.0	193.7	203.3	215.8	229.8	243.1	259.6	279.6	302.6	337.2	375.3
60°	169.4	176.0	183.9	196.8	209.8	221.8	237.7	254.3	275.9	305.9	338.3
62.5°	152.1	158.4	165.7	176.8	189.5	200.5	214.3	232.0	250.3	277.6	306.1
65°	123.2	132.3	139.4	149.4	159.8	171.5	182.3	196.4	212.6	234.3	259.7
67.5°	102.2	106.8	113.3	122.5	133.1	143.1	153.4	164.4	178.5	195.2	215.3
70°	92.8	94.5	95.7	104.4	114.5	124.4	134.0	144.4	156.5	170.2	187.7
72.5°	81.9	83.5	85.0	88.8	96.8	106.8	116.7	124.4	135.8	147.2	161.4
75°	64.9	67.4	68.6	70.8	73.7	80.3	89.4	96.9	103.6	112.3	123.6
77.5°	49.4	50.9	52.2	54.4	56.2	59.3	64.4	71.2	77.4	82.5	90.3
80°	39.1	39.5	41.2	42.1	44.5	46.6	49.1	54.5	60.7	62.9	68.2
82.5°	29.4	29.9	31.2	32.0	33.2	35.0	38.2	39.5	44.4	47.2	50.6
85°	16.2	15.8	17.0	17.0	17.9	18.8	19.6	21.6	22.9	26.3	27.1
87.5°	9.2	9.0	9.0	8.6	8.2	8.6	8.5	8.3	8.5	9.0	9.9
90°	21.0	20.0	18.2	16.4	14.6	12.9	10.8	8.3	5.9	3.4	1.0
92.5°	23.7	23.2	22.3	21.4	20.5	19.6	19.2	19.5	19.7	19.9	20.1
95°	40.0	38.9	37.3	35.8	34.2	32.7	35.5	42.9	50.2	57.5	64.8
97.5°	52.9	52.1	48.5	44.8	41.3	37.7	46.2	66.9	87.4	108.0	128.7
100°	58.6	56.8	53.1	49.3	45.6	41.7	55.1	85.4	115.8	146.2	176.5
102.5°	60.7	58.5	89.9	121.5	153.0	184.5	203.5	209.9	216.3	222.7	229.2
105°	63.3	60.8	121.3	181.8	242.4	302.9	329.8	323.1	316.5	309.8	303.2
107.5°	82.7	85.2	157.8	230.3	302.9	375.4	409.0	403.7	398.3	392.9	387.6
110°	152.4	174.6	238.6	302.6	366.7	430.7	460.4	455.8	451.1	446.5	441.8



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	359.4	440.2	456.1	471.9	487.7	503.5	509.4	505.2	501.1	497.0	492.8
115°	512.7	615.4	609.8	604.3	598.8	593.2	588.6	584.7	581.0	577.2	573.5
117.5°	656.7	681.6	677.8	673.9	670.1	666.3	662.3	658.1	653.9	649.7	645.5
120°	733.7	731.0	727.1	723.1	719.1	715.1	711.4	708.1	704.7	701.5	698.1
122.5°	779.7	778.1	773.8	769.4	765.1	760.8	756.8	753.3	749.8	746.3	742.8
125°	844.3	842.8	838.5	834.3	830.1	825.9	822.3	819.5	816.6	813.7	810.8
127.5°	903.3	901.0	897.8	894.7	891.5	888.4	885.3	882.1	878.8	875.6	872.5
130°	940.9	938.5	936.0	933.6	931.2	928.7	925.8	922.2	918.7	915.1	911.6
132.5°	978.0	976.0	973.5	971.1	968.7	966.2	963.5	960.5	957.5	954.5	951.5
135°	1030.5	1028.3	1026.2	1024.3	1022.2	1020.3	1017.5	1013.9	1010.4	1006.8	1003.3
137.5°	1079.3	1077.1	1074.8	1072.6	1070.3	1068.0	1065.7	1063.2	1060.7	1058.3	1055.7
140°	1111.0	1109.1	1106.6	1104.2	1101.7	1099.3	1097.1	1095.4	1093.6	1091.8	1090.1
142.5°	1140.4	1138.6	1135.7	1132.9	1130.2	1127.4	1125.2	1123.6	1122.0	1120.4	1118.8
145°	1181.4	1179.8	1176.1	1172.3	1168.6	1164.7	1163.0	1163.2	1163.4	1163.7	1163.8
147.5°	1217.3	1216.1	1212.4	1208.7	1204.9	1201.3	1199.8	1200.6	1201.5	1202.3	1203.1
150°	1239.0	1237.7	1234.1	1230.6	1227.0	1223.5	1222.5	1224.0	1225.6	1227.2	1228.7
152.5°	1259.0	1257.6	1254.3	1250.9	1247.5	1244.1	1243.3	1245.0	1246.8	1248.5	1250.3
155°	1285.9	1284.6	1281.9	1279.2	1276.6	1273.9	1273.6	1275.5	1277.6	1279.5	1281.6
157.5°	1308.4	1306.9	1305.0	1303.2	1301.3	1299.4	1299.3	1301.1	1302.7	1304.4	1306.1
160°	1321.8	1320.5	1319.2	1317.8	1316.5	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5
162.5°	1333.9	1332.4	1331.3	1330.1	1328.9	1327.8	1327.9	1329.3	1330.6	1331.9	1333.3
165°	1348.9	1347.4	1346.7	1346.1	1345.4	1344.8	1345.1	1346.4	1347.7	1349.1	1350.4
167.5°	1361.5	1359.9	1359.3	1358.7	1358.1	1357.5	1357.8	1359.2	1360.5	1361.8	1363.2
170°	1367.9	1366.4	1365.9	1365.5	1365.0	1364.6	1365.0	1366.4	1367.7	1369.0	1370.4
172.5°	1372.6	1371.1	1370.7	1370.2	1369.8	1369.4	1369.8	1371.1	1372.5	1373.8	1375.1
175°	1377.9	1376.3	1375.9	1375.4	1375.0	1374.5	1375.1	1376.6	1378.2	1379.7	1381.3
177.5°	1378.8	1377.5	1377.3	1377.1	1377.0	1376.8	1377.3	1378.6	1379.8	1381.0	1382.3
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1204.8	1205.7	1212.4	1215.4	1221.4	1223.7	1226.4	1225.7	1225.7	1227.0	1236.4
5°	1207.3	1215.6	1228.1	1240.2	1251.8	1261.8	1268.5	1275.1	1277.7	1289.7	1300.6
7.5°	1203.0	1218.3	1238.9	1257.4	1279.4	1296.7	1310.9	1323.9	1332.7	1350.2	1368.2
10°	1197.3	1219.0	1242.3	1266.0	1296.4	1319.2	1342.6	1360.5	1366.3	1392.5	1407.5
12.5°	1186.0	1215.0	1244.6	1275.3	1305.0	1336.6	1362.2	1380.1	1400.6	1424.2	1451.8
15°	1169.1	1202.3	1241.0	1280.6	1323.0	1361.3	1388.8	1420.0	1442.4	1468.3	1492.4
17.5°	1144.6	1187.5	1236.7	1282.5	1331.5	1372.7	1410.5	1440.5	1456.3	1471.0	1474.6
20°	1125.4	1171.5	1229.4	1283.4	1332.6	1380.1	1417.5	1442.4	1446.6	1447.0	1425.0
22.5°	1104.3	1156.5	1217.1	1272.5	1331.2	1384.1	1413.2	1423.8	1407.3	1379.1	1336.4
25°	1065.8	1126.2	1196.5	1259.7	1323.9	1373.8	1383.8	1365.1	1307.2	1246.4	1169.5
27.5°	1024.0	1091.8	1167.3	1237.6	1305.9	1336.8	1315.2	1247.7	1143.5	1053.0	943.2
30°	993.4	1069.6	1143.6	1222.3	1285.6	1298.9	1249.4	1149.9	1028.3	891.9	782.4
32.5°	958.5	1038.3	1119.7	1201.0	1253.9	1241.0	1159.1	1036.7	894.2	760.0	656.6
35°	908.5	990.9	1078.7	1160.3	1194.0	1137.8	1015.5	856.1	710.4	585.1	514.0
37.5°	850.8	940.5	1031.8	1106.8	1104.3	1010.7	844.1	679.6	557.1	483.0	432.4
40°	809.8	900.6	999.2	1062.5	1035.4	913.5	732.9	577.6	488.2	429.1	392.0
42.5°	770.6	861.6	959.6	1009.9	962.9	812.9	633.0	511.4	437.6	391.4	361.4
45°	703.8	799.9	890.6	918.5	834.5	669.2	511.9	423.6	374.5	340.5	319.6
47.5°	638.4	733.0	815.8	816.3	702.5	542.7	431.8	366.6	324.7	298.3	283.2
50°	598.4	688.4	757.8	747.1	618.0	482.7	386.2	330.0	295.1	274.7	258.9
52.5°	553.5	640.7	700.9	670.1	546.4	424.9	345.3	298.1	269.1	251.4	237.3
55°	488.2	565.6	608.1	561.4	445.7	353.4	291.7	254.7	233.1	218.1	206.0
57.5°	424.0	487.9	514.5	460.3	367.1	293.0	246.8	219.0	197.5	186.8	180.5
60°	383.7	438.2	457.0	397.1	319.2	256.3	218.5	192.7	176.8	169.8	163.5
62.5°	344.1	388.7	396.4	341.4	278.3	224.4	191.8	170.1	159.6	152.8	146.9
65°	285.5	317.6	313.8	269.7	220.1	178.1	154.4	141.0	133.1	123.6	113.2
67.5°	235.1	254.6	242.8	209.8	168.0	138.4	122.9	112.8	103.1	94.0	91.6
70°	203.1	214.3	201.9	171.5	137.8	116.1	103.6	91.6	85.8	83.6	79.9
72.5°	172.4	176.3	162.9	136.8	112.1	96.1	84.0	77.2	74.1	72.3	70.0
75°	129.5	126.5	114.9	94.5	77.9	67.0	63.3	60.7	58.7	57.0	55.8
77.5°	90.9	86.7	76.2	62.9	54.2	49.0	46.8	45.4	44.4	43.6	42.4
80°	68.2	65.3	55.0	44.9	41.2	38.7	37.4	35.8	35.8	35.0	33.7
82.5°	50.0	46.7	37.6	32.9	30.9	29.4	28.5	27.5	27.1	27.3	26.4
85°	26.3	21.2	18.8	17.9	16.6	15.8	16.2	15.4	15.4	15.4	15.0
87.5°	8.6	7.5	7.7	7.8	8.6	8.9	9.0	9.3	9.9	9.9	10.4
90°	3.4	5.9	8.3	10.8	12.9	14.6	16.4	18.2	20.0	21.0	22.2
92.5°	19.9	19.7	19.5	19.2	19.6	20.5	21.4	22.3	23.2	23.7	24.3
95°	57.5	50.2	42.9	35.5	32.7	34.2	35.8	37.3	38.9	40.0	41.1
97.5°	108.0	87.4	66.9	46.2	37.7	41.3	44.8	48.5	52.1	52.9	53.8
100°	146.2	115.8	85.4	55.1	41.7	45.6	49.3	53.1	56.8	58.6	60.4
102.5°	222.7	216.3	209.9	203.5	184.5	153.0	121.5	89.9	58.5	60.7	63.0
105°	309.8	316.5	323.1	329.8	302.9	242.4	181.8	121.3	60.8	63.3	65.7
107.5°	392.9	398.3	403.7	409.0	375.4	302.9	230.3	157.8	85.2	82.7	80.2
110°	446.5	451.1	455.8	460.4	430.7	366.7	302.6	238.6	174.6	152.4	130.2





TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	497.0	501.1	505.2	509.4	503.5	487.7	471.9	456.1	440.2	359.4	278.5
115°	577.2	581.0	584.7	588.6	593.2	598.8	604.3	609.8	615.4	512.7	410.1
117.5°	649.7	653.9	658.1	662.3	666.3	670.1	673.9	677.8	681.6	656.7	631.9
120°	701.5	704.7	708.1	711.4	715.1	719.1	723.1	727.1	731.0	733.7	736.4
122.5°	746.3	749.8	753.3	756.8	760.8	765.1	769.4	773.8	778.1	779.7	781.3
125°	813.7	816.6	819.5	822.3	825.9	830.1	834.3	838.5	842.8	844.3	845.9
127.5°	875.6	878.8	882.1	885.3	888.4	891.5	894.7	897.8	901.0	903.3	905.5
130°	915.1	918.7	922.2	925.8	928.7	931.2	933.6	936.0	938.5	940.9	943.4
132.5°	954.5	957.5	960.5	963.5	966.2	968.7	971.1	973.5	976.0	978.0	980.2
135°	1006.8	1010.4	1013.9	1017.5	1020.3	1022.2	1024.3	1026.2	1028.3	1030.5	1032.7
137.5°	1058.3	1060.7	1063.2	1065.7	1068.0	1070.3	1072.6	1074.8	1077.1	1079.3	1081.4
140°	1091.8	1093.6	1095.4	1097.1	1099.3	1101.7	1104.2	1106.6	1109.1	1111.0	1113.0
142.5°	1120.4	1122.0	1123.6	1125.2	1127.4	1130.2	1132.9	1135.7	1138.6	1140.4	1142.2
145°	1163.7	1163.4	1163.2	1163.0	1164.7	1168.6	1172.3	1176.1	1179.8	1181.4	1182.9
147.5°	1202.3	1201.5	1200.6	1199.8	1201.3	1204.9	1208.7	1212.4	1216.1	1217.3	1218.5
150°	1227.2	1225.6	1224.0	1222.5	1223.5	1227.0	1230.6	1234.1	1237.7	1239.0	1240.3
152.5°	1248.5	1246.8	1245.0	1243.3	1244.1	1247.5	1250.9	1254.3	1257.6	1259.0	1260.3
155°	1279.5	1277.6	1275.5	1273.6	1273.9	1276.6	1279.2	1281.9	1284.6	1285.9	1287.2
157.5°	1304.4	1302.7	1301.1	1299.3	1299.4	1301.3	1303.2	1305.0	1306.9	1308.4	1309.9
160°	1319.2	1317.8	1316.5	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5	1321.8	1323.1
162.5°	1331.9	1330.6	1329.3	1327.9	1327.8	1328.9	1330.1	1331.3	1332.4	1333.9	1335.5
165°	1349.1	1347.7	1346.4	1345.1	1344.8	1345.4	1346.1	1346.7	1347.4	1348.9	1350.5
167.5°	1361.8	1360.5	1359.2	1357.8	1357.5	1358.1	1358.7	1359.3	1359.9	1361.5	1363.0
170°	1369.0	1367.7	1366.4	1365.0	1364.6	1365.0	1365.5	1365.9	1366.4	1367.9	1369.5
172.5°	1373.8	1372.5	1371.1	1369.8	1369.4	1369.8	1370.2	1370.7	1371.1	1372.6	1374.2
175°	1379.7	1378.2	1376.6	1375.1	1374.5	1375.0	1375.4	1375.9	1376.3	1377.9	1379.4
177.5°	1381.0	1379.8	1378.6	1377.3	1376.8	1377.0	1377.1	1377.3	1377.5	1378.8	1380.0
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1239.7	1244.0	1246.0	1246.0	1248.4	1247.3	1246.3
5°	1310.9	1318.8	1320.5	1328.0	1333.4	1331.7	1332.6
7.5°	1381.8	1394.5	1407.0	1412.8	1413.7	1417.1	1418.3
10°	1425.4	1435.8	1455.4	1452.5	1467.0	1475.4	1461.6
12.5°	1467.4	1481.4	1494.9	1498.7	1507.0	1509.6	1504.2
15°	1505.3	1512.8	1513.6	1511.6	1514.0	1512.0	1504.1
17.5°	1469.8	1457.7	1433.1	1421.4	1412.2	1398.5	1393.0
20°	1411.2	1375.4	1333.8	1317.2	1297.6	1259.3	1268.5
22.5°	1284.7	1243.9	1202.3	1153.7	1130.5	1094.2	1092.0
25°	1087.9	1017.6	940.1	886.1	854.4	818.2	802.4
27.5°	845.8	757.2	693.8	661.7	632.5	603.8	602.6
30°	686.6	620.1	571.0	543.6	525.6	513.6	516.1
32.5°	578.8	533.2	500.1	477.3	464.1	454.9	454.8
35°	473.2	442.0	420.8	411.2	401.6	394.9	395.3
37.5°	405.0	386.2	374.4	363.8	357.8	354.6	352.8
40°	370.0	354.6	345.4	339.2	334.2	329.6	328.8
42.5°	342.3	329.6	320.4	315.5	310.9	307.6	306.8
45°	303.8	293.4	285.1	279.6	277.6	274.7	274.7
47.5°	270.3	260.0	253.6	250.1	246.5	244.6	244.5
50°	247.6	239.7	233.9	231.8	228.9	227.6	227.2
52.5°	227.3	221.4	217.3	215.8	214.6	213.0	213.3
55°	199.7	196.4	194.8	193.6	191.4	188.9	190.6
57.5°	176.5	173.7	169.3	165.3	163.4	161.7	162.3
60°	160.2	154.4	148.5	144.0	142.8	139.0	139.0
62.5°	139.6	131.4	124.3	121.7	120.4	118.7	118.4
65°	107.4	104.0	102.4	100.7	99.9	99.9	99.1
67.5°	88.9	87.6	85.9	85.4	84.5	84.3	84.1
70°	78.7	77.0	76.1	75.7	74.9	75.3	74.1
72.5°	68.6	67.3	67.2	66.1	65.6	65.6	64.7
75°	54.1	54.1	53.6	53.2	52.4	52.0	52.4
77.5°	41.6	41.7	40.9	40.8	40.8	40.8	40.4
80°	33.3	33.7	33.3	32.9	32.4	32.9	32.4
82.5°	26.3	25.7	25.6	25.5	25.4	25.2	25.1
85°	15.0	15.4	15.0	14.6	14.6	14.6	15.0
87.5°	10.4	10.5	10.7	10.8	10.8	10.9	10.7
90°	23.2	24.4	25.2	25.6	26.0	26.5	26.9
92.5°	24.9	25.4	25.8	26.1	26.4	26.7	26.9
95°	42.2	43.3	43.8	43.5	43.3	43.1	42.9
97.5°	54.7	55.6	56.2	56.4	56.7	57.0	57.2
100°	62.1	63.9	65.1	65.5	66.0	66.4	66.9
102.5°	65.4	67.7	69.1	69.7	70.4	71.0	71.6
105°	68.2	70.6	72.2	73.1	74.0	74.9	75.8
107.5°	77.7	75.3	74.4	75.3	76.2	77.1	78.0
110°	108.0	85.9	75.3	76.1	77.0	77.9	78.8



TEST NUMBER: P331817-930

CATALOG NUMBER: S122RDIW-S675D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	197.7	116.8	76.7	77.5	78.2	78.8	79.6
115°	307.5	204.9	145.6	129.6	113.7	97.8	81.8
117.5°	607.1	582.3	543.6	491.2	438.8	386.4	333.9
120°	739.0	741.7	728.1	698.1	668.2	638.3	608.4
122.5°	782.9	784.5	782.4	776.6	770.8	765.0	759.1
125°	847.4	849.0	850.0	850.7	851.4	852.1	852.7
127.5°	907.8	910.0	911.3	911.3	911.5	911.6	911.7
130°	945.8	948.2	949.3	949.1	948.9	948.7	948.4
132.5°	982.2	984.3	985.2	985.0	984.8	984.6	984.4
135°	1034.9	1037.1	1038.0	1037.5	1037.1	1036.7	1036.2
137.5°	1083.6	1085.8	1086.5	1085.7	1085.0	1084.3	1083.5
140°	1115.0	1117.0	1117.4	1116.3	1115.2	1114.1	1113.0
142.5°	1144.0	1145.8	1146.1	1145.1	1143.9	1142.8	1141.7
145°	1184.5	1186.0	1186.3	1185.1	1184.1	1182.9	1181.9
147.5°	1219.6	1220.7	1220.8	1219.9	1219.0	1218.1	1217.2
150°	1241.7	1243.0	1243.1	1242.0	1240.9	1239.7	1238.7
152.5°	1261.6	1263.0	1262.9	1261.4	1260.0	1258.5	1257.0
155°	1288.6	1289.9	1289.6	1287.8	1286.1	1284.3	1282.5
157.5°	1311.4	1313.0	1312.8	1311.1	1309.4	1307.7	1305.9
160°	1324.5	1325.8	1325.7	1324.1	1322.6	1321.0	1319.5
162.5°	1336.9	1338.5	1338.2	1336.4	1334.4	1332.5	1330.6
165°	1352.0	1353.6	1353.6	1352.0	1350.5	1348.9	1347.4
167.5°	1364.6	1366.1	1366.0	1363.9	1362.0	1359.9	1358.0
170°	1371.0	1372.6	1372.3	1370.4	1368.3	1366.4	1364.3
172.5°	1375.7	1377.3	1377.1	1375.1	1373.1	1371.1	1369.1
175°	1381.0	1382.5	1382.2	1380.0	1377.8	1375.5	1373.3
177.5°	1381.2	1382.5	1382.3	1380.7	1379.1	1377.5	1375.9
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3

(END OF REPORT)