

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: P331701-935

Luminaire Tested: **SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331701-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5809.9 lumens
Efficiency: N/A
Efficacy: 102.1 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

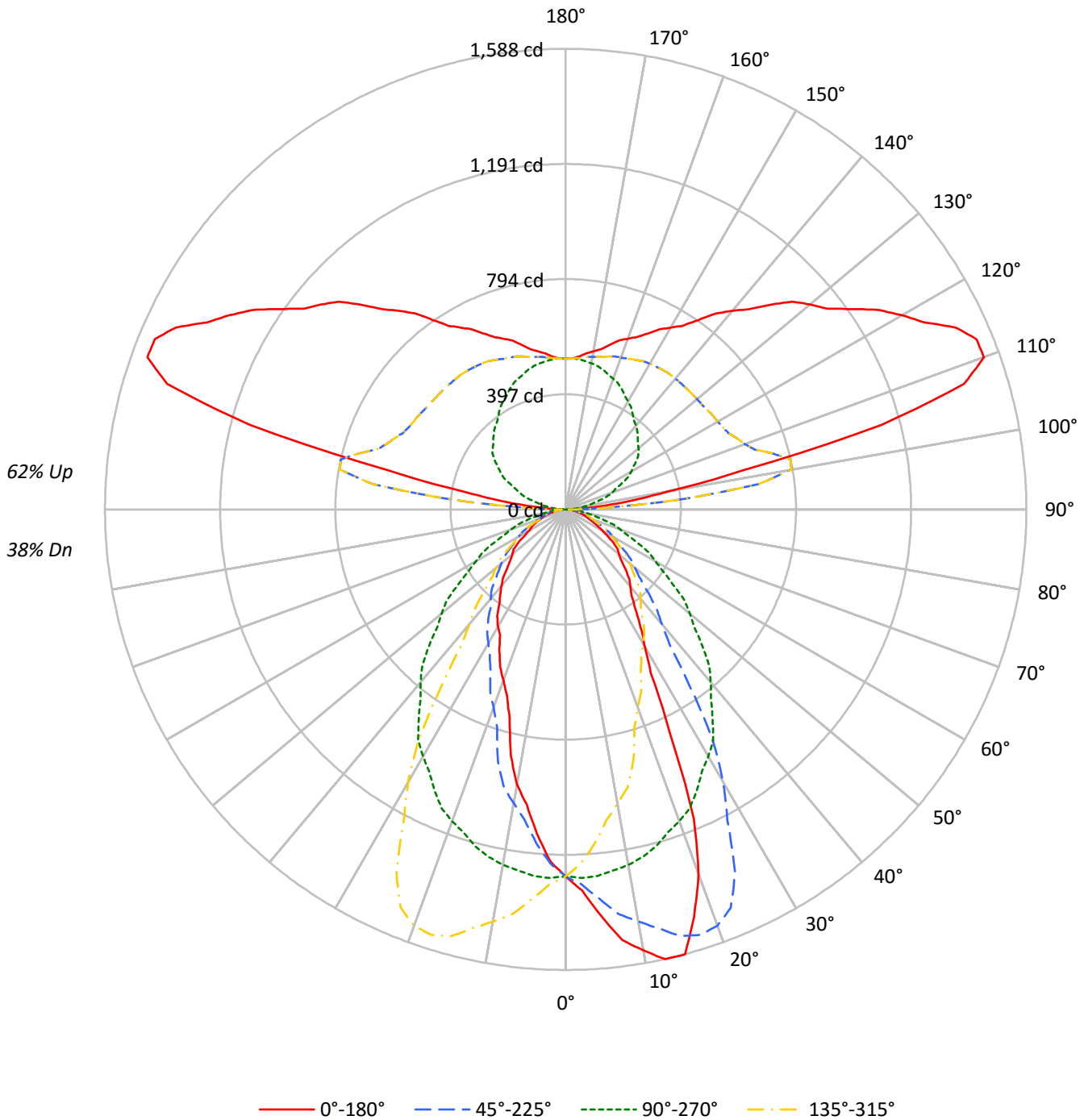
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	92	88	85	87	83	80	78	68	66	64	54	52	51	40	40	39	33
2	88	81	75	70	79	73	69	65	60	57	54	48	46	44	36	35	34	29
3	80	71	65	59	73	65	59	55	54	49	46	43	40	38	33	31	29	25
4	74	64	56	51	67	58	52	47	48	43	40	39	35	33	30	28	26	22
5	68	57	49	44	62	52	46	41	43	38	35	35	31	29	27	25	23	20
6	63	51	44	38	57	47	40	36	39	34	31	32	28	26	25	23	21	18
7	58	46	39	34	53	43	36	32	36	31	27	29	26	23	23	20	19	16
8	54	42	35	30	49	39	33	28	33	28	24	27	23	21	21	19	17	14
9	50	39	32	27	46	36	29	25	30	25	22	25	21	19	20	17	15	13
10	47	36	29	24	43	33	27	23	28	23	20	23	19	17	18	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20423	20423	20423	20423
5°	22809	20551	18220	20551
10°	25306	20407	15795	20407
15°	26551	20107	12445	20107
20°	23017	19663	10768	19663
25°	15096	19057	9615	19057
30°	10161	18321	8701	18321
35°	8229	17394	7849	17394
40°	7318	16387	7263	16387
45°	6624	15203	6485	15203
50°	6028	14031	6006	14031
55°	5666	12732	5590	12732
60°	4740	11538	4682	11538
65°	3996	10476	4531	10476
70°	3696	9356	4277	9356
75°	3456	8141	3949	8141
80°	3189	6704	3515	6704
85°	2927	5298	3094	5298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	2.1
10°-20°	334.1	5.8
20°-30°	430.5	7.4
30°-40°	409.1	7.0
40°-50°	350.5	6.0
50°-60°	266.9	4.6
60°-70°	168.7	2.9
70°-80°	84.3	1.5
80°-90°	26.6	0.5
90°-100°	208.0	3.6
100°-110°	705.7	12.1
110°-120°	749.7	12.9
120°-130°	617.2	10.6
130°-140°	495.6	8.5
140°-150°	374.5	6.4
150°-160°	263.2	4.5
160°-170°	154.9	2.7
170°-180°	50.4	0.9
0°-30°	884.5	15.2
0°-40°	1293.7	22.3
0°-60°	1911.1	32.9
0°-90°	2190.7	37.7
90°-120°	1663.4	28.6
90°-150°	3150.7	54.2
90°-180°	3619.0	62.3
0°-180°	5809.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1265	1265	1265	1265	1265	
5°	1407	1268	1124	1268	1407	139
15°	1588	1203	744	1203	1588	428
25°	847	1070	540	1070	847	402
35°	418	882	398	882	418	267
45°	290	666	284	666	290	224
55°	201	452	199	452	201	177
65°	105	274	119	274	105	106
75°	55	130	63	130	55	59
85°	16	29	17	29	16	18
90°	33	1	33	1	33	18
95°	114	35	114	35	114	148
105°	1127	122	1127	122	1127	1091
115°	1483	215	1483	215	1483	1453
125°	1203	300	1203	300	1203	1087
135°	997	352	997	352	997	775
145°	796	402	796	402	796	506
155°	669	457	669	457	669	312
165°	587	498	587	498	587	168
175°	529	519	529	519	529	51
180°	520	520	520	520	520	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1316.2	1317.2	1318.4	1315.9	1315.9	1313.7	1309.2	1305.7	1295.8	1294.4	1294.4
5°	1407.3	1406.4	1408.2	1402.5	1394.6	1392.8	1384.4	1373.5	1362.0	1349.3	1346.6
7.5°	1497.8	1496.5	1493.0	1492.0	1485.9	1472.7	1459.2	1444.9	1425.9	1407.4	1398.1
10°	1543.5	1558.1	1549.2	1533.9	1537.0	1516.3	1505.3	1486.4	1470.6	1442.9	1436.8
12.5°	1588.5	1594.2	1591.5	1582.7	1578.7	1564.4	1549.6	1533.2	1504.0	1479.1	1457.5
15°	1588.4	1596.7	1598.9	1596.3	1598.4	1597.6	1589.7	1576.1	1550.6	1523.3	1499.6
17.5°	1471.1	1476.9	1491.3	1501.1	1513.4	1539.4	1552.2	1557.2	1553.4	1537.9	1521.2
20°	1339.6	1329.9	1370.4	1391.0	1408.6	1452.5	1490.3	1504.9	1528.1	1527.7	1523.3
22.5°	1153.2	1155.5	1193.9	1218.4	1269.7	1313.6	1356.8	1411.4	1456.4	1486.2	1503.7
25°	847.4	864.1	902.3	935.7	992.8	1074.6	1148.8	1235.0	1316.3	1380.4	1441.6
27.5°	636.4	637.7	668.0	698.8	732.7	799.7	893.2	996.1	1112.0	1207.6	1317.7
30°	545.0	542.3	555.1	574.0	603.0	654.9	725.1	826.3	941.8	1086.0	1214.4
32.5°	480.3	480.4	490.1	504.0	528.1	563.1	611.2	693.4	802.6	944.3	1094.8
35°	417.5	417.1	424.1	434.2	444.4	466.7	499.7	542.8	617.9	750.2	904.0
37.5°	372.6	374.4	377.9	384.2	395.4	407.9	427.7	456.6	510.1	588.3	717.6
40°	347.2	348.1	352.9	358.2	364.8	374.4	390.7	414.0	453.1	515.6	610.0
42.5°	324.0	324.9	328.3	333.2	338.4	348.1	361.5	381.7	413.4	462.1	540.0
45°	290.1	290.1	293.2	295.3	301.1	309.9	320.8	337.5	359.6	395.5	447.4
47.5°	258.2	258.3	260.4	264.2	267.8	274.6	285.4	299.0	315.0	342.9	387.2
50°	240.0	240.4	241.7	244.8	247.0	253.1	261.5	273.4	290.1	311.6	348.5
52.5°	225.2	224.9	226.6	227.9	229.5	233.8	240.0	250.6	265.4	284.2	314.8
55°	201.3	199.5	202.2	204.4	205.7	207.4	210.9	217.6	230.3	246.2	269.0
57.5°	171.4	170.7	172.5	174.6	178.7	183.5	186.4	190.6	197.3	208.6	231.3
60°	146.8	146.8	150.8	152.1	156.9	163.1	169.2	172.7	179.3	186.8	203.5
62.5°	125.0	125.4	127.2	128.5	131.2	138.8	147.4	155.2	161.4	168.5	179.6
65°	104.6	105.5	105.5	106.3	108.1	109.9	113.4	119.5	130.5	140.6	149.0
67.5°	88.8	89.0	89.3	90.1	90.7	92.6	93.9	96.7	99.3	108.8	119.2
70°	78.3	79.6	79.1	80.0	80.4	81.3	83.1	84.4	88.3	90.6	96.7
72.5°	68.4	69.3	69.2	69.8	70.9	71.1	72.5	73.9	76.4	78.3	81.5
75°	55.4	54.9	55.4	56.2	56.7	57.2	57.2	58.9	60.2	62.0	64.1
77.5°	42.7	43.1	43.0	43.1	43.2	44.0	43.9	44.8	46.1	46.9	48.0
80°	34.3	34.7	34.3	34.7	35.1	35.6	35.1	35.6	36.9	37.8	37.8
82.5°	26.5	26.6	26.9	26.9	27.0	27.1	27.8	27.9	28.8	28.7	29.0
85°	15.8	15.4	15.4	15.4	15.8	16.3	15.8	15.8	16.3	16.3	16.3
87.5°	12.2	12.6	12.6	12.6	12.6	12.4	12.0	12.7	12.6	13.1	12.6
90°	33.0	33.0	33.0	33.0	33.0	32.0	30.0	32.0	33.0	34.0	33.0
92.5°	55.4	57.0	56.2	59.4	60.2	66.4	74.8	87.2	109.9	130.0	128.2
95°	114.0	113.0	116.1	124.0	137.0	159.0	201.0	262.1	343.1	392.1	347.1
97.5°	224.5	232.8	247.5	272.1	319.9	392.1	500.3	611.5	702.1	669.3	504.1
100°	358.1	376.1	405.1	448.1	531.1	652.1	789.2	913.2	934.2	790.1	544.1
102.5°	630.2	654.5	690.8	764.1	854.4	982.6	1082.8	1110.9	1020.6	794.2	528.9
105°	1127.2	1141.3	1184.2	1246.2	1308.3	1341.3	1328.3	1215.2	1007.2	741.1	499.1
107.5°	1439.9	1458.4	1467.1	1470.5	1462.7	1414.3	1310.3	1140.1	919.4	684.3	484.3
110°	1534.3	1535.3	1526.3	1507.3	1464.3	1382.2	1254.2	1075.2	864.2	657.1	481.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1532.7	1527.3	1510.3	1478.5	1418.7	1324.6	1187.8	1016.0	825.8	639.6	481.9
115°	1483.3	1474.3	1448.3	1402.3	1331.3	1228.2	1097.3	943.2	778.2	620.1	486.1
117.5°	1395.1	1387.5	1360.0	1311.5	1239.1	1142.5	1023.6	888.4	748.1	610.7	493.3
120°	1338.3	1328.3	1299.2	1252.2	1182.2	1091.2	985.2	861.2	732.1	605.1	498.1
122.5°	1279.0	1270.7	1244.8	1198.6	1135.8	1053.6	953.2	839.6	718.5	601.9	503.7
125°	1203.2	1195.2	1170.3	1132.2	1074.2	999.2	911.2	808.1	699.1	596.2	512.1
127.5°	1136.9	1130.4	1108.8	1073.2	1022.6	953.4	870.4	777.1	681.1	592.7	520.7
130°	1099.2	1091.2	1071.3	1037.2	988.2	922.2	843.2	757.2	669.2	591.1	527.1
132.5°	1060.0	1052.8	1034.4	1000.4	952.2	890.2	817.6	738.0	659.5	590.3	533.5
135°	997.2	993.2	975.2	942.2	899.1	843.2	777.1	711.1	646.1	589.1	541.1
137.5°	935.6	929.6	913.8	885.4	846.2	797.4	744.9	689.7	636.7	588.9	547.9
140°	893.2	887.2	872.2	846.2	814.2	770.2	724.2	676.1	631.1	588.1	551.1
142.5°	850.8	849.5	836.2	812.5	782.1	745.4	705.8	665.0	625.5	588.1	553.5
145°	796.2	793.2	783.2	766.1	742.2	713.2	682.2	649.1	618.1	586.1	556.1
147.5°	750.4	748.6	741.8	728.1	708.3	687.2	663.0	637.0	610.5	582.6	556.9
150°	723.2	722.1	716.2	704.1	689.1	671.1	650.1	628.1	604.1	580.1	556.1
152.5°	699.9	699.7	695.3	684.9	673.1	657.5	639.7	619.3	598.5	576.1	554.5
155°	669.2	671.1	667.1	660.1	649.1	638.1	623.1	607.1	588.1	569.1	552.1
157.5°	642.9	642.9	641.1	635.3	627.5	618.9	606.3	592.9	578.3	561.9	547.5
160°	626.1	626.1	625.1	620.1	613.1	606.1	595.1	584.1	571.1	557.2	545.1
162.5°	610.1	610.9	609.9	606.5	599.5	594.1	584.7	575.3	564.7	553.1	542.7
165°	587.1	588.1	588.1	584.1	580.1	576.1	569.1	562.1	554.1	545.1	538.1
167.5°	565.9	567.1	567.3	565.1	563.4	559.7	554.9	549.5	543.7	538.1	533.5
170°	553.1	555.1	556.1	553.1	552.1	550.1	546.1	543.1	538.1	534.1	531.1
172.5°	542.7	543.9	544.9	543.5	542.5	541.3	538.1	535.9	532.5	529.3	527.9
175°	529.1	531.1	532.1	531.1	531.1	530.1	529.1	528.1	525.1	524.1	523.1
177.5°	520.9	522.5	523.3	523.3	523.3	523.3	522.5	522.5	520.9	520.1	520.9
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1295.1	1292.3	1289.9	1283.5	1280.4	1273.3	1272.3	1272.0	1262.7	1254.0	1251.5
5°	1339.6	1332.6	1322.0	1309.7	1296.9	1283.8	1275.0	1268.0	1250.3	1233.6	1224.0
7.5°	1384.4	1369.3	1351.1	1327.8	1308.4	1286.6	1270.4	1255.9	1231.0	1207.0	1190.9
10°	1417.8	1393.2	1369.1	1337.0	1311.9	1287.3	1264.5	1244.7	1216.5	1184.9	1162.4
12.5°	1438.6	1411.5	1378.2	1346.8	1314.4	1283.1	1252.5	1227.1	1194.0	1161.3	1134.7
15°	1466.6	1437.6	1397.1	1352.4	1310.6	1269.7	1234.6	1202.9	1159.9	1120.8	1088.2
17.5°	1489.5	1449.7	1406.2	1354.4	1306.1	1254.0	1208.8	1168.4	1120.4	1073.2	1034.9
20°	1496.9	1457.4	1407.3	1355.4	1298.3	1237.2	1188.4	1144.4	1093.0	1041.6	997.6
22.5°	1492.4	1461.6	1405.8	1343.8	1285.3	1221.3	1166.2	1115.3	1058.3	1005.7	954.8
25°	1461.4	1450.8	1398.1	1330.3	1263.6	1189.3	1125.6	1069.7	1004.7	948.5	893.0
27.5°	1389.0	1411.8	1379.1	1307.0	1232.7	1153.1	1081.4	1017.9	950.4	887.1	831.9
30°	1319.4	1371.7	1357.6	1290.8	1207.7	1129.5	1049.1	982.7	910.7	845.6	791.1
32.5°	1224.1	1310.5	1324.2	1268.3	1182.4	1096.5	1012.2	946.2	870.9	802.4	749.2
35°	1072.4	1201.6	1260.9	1225.3	1139.2	1046.5	959.4	882.5	806.9	739.3	686.5
37.5°	891.4	1067.4	1166.2	1168.8	1089.7	993.2	898.5	822.2	744.8	678.3	621.3
40°	774.0	964.7	1093.5	1122.1	1055.2	951.1	855.2	777.5	701.9	636.8	571.4
42.5°	668.5	858.5	1016.8	1066.5	1013.4	909.9	813.8	732.5	659.0	597.4	530.5
45°	540.6	706.7	881.2	970.0	940.6	844.7	743.2	665.8	596.8	543.6	479.5
47.5°	456.0	573.1	741.9	862.0	861.5	774.0	674.2	600.1	536.1	486.3	434.3
50°	407.9	509.8	652.6	788.9	800.3	726.9	632.0	558.6	498.9	446.5	404.8
52.5°	364.6	448.7	577.0	707.7	740.2	676.7	584.5	516.8	458.7	410.7	374.9
55°	308.1	373.2	470.7	592.9	642.1	597.3	515.6	452.3	405.2	364.8	334.0
57.5°	260.6	309.4	387.7	486.1	543.4	515.2	447.7	396.3	356.1	319.5	295.2
60°	230.7	270.7	337.1	419.3	482.6	462.8	405.2	357.3	323.0	291.4	268.5
62.5°	202.6	236.9	293.9	360.6	418.6	410.4	363.3	323.2	293.2	264.3	245.0
65°	163.1	188.1	232.5	284.8	331.4	335.4	301.5	274.2	247.5	224.5	207.4
67.5°	129.8	146.2	177.5	221.5	256.4	268.9	248.2	227.4	206.1	188.5	173.6
70°	109.4	122.6	145.5	181.1	213.2	226.4	214.5	198.2	179.8	165.2	152.5
72.5°	88.7	101.5	118.4	144.5	172.0	186.2	182.1	170.5	155.5	143.4	131.4
75°	66.8	70.8	82.2	99.8	121.3	133.6	136.7	130.5	118.6	109.4	102.4
77.5°	49.4	51.7	57.3	66.5	80.5	91.5	96.0	95.3	87.1	81.7	75.2
80°	39.5	40.9	43.5	47.4	58.0	69.0	72.1	72.1	66.4	64.1	57.6
82.5°	30.0	31.0	32.6	34.8	39.7	49.3	52.8	53.5	49.9	46.9	41.8
85°	17.1	16.7	17.6	18.9	19.8	22.4	27.7	28.6	27.7	24.2	22.8
87.5°	11.4	10.3	9.3	8.4	8.4	8.3	9.2	10.4	9.6	9.3	9.0
90°	27.0	20.0	15.0	12.0	10.0	8.0	4.0	1.0	4.0	8.0	10.0
92.5°	99.8	68.0	45.4	36.0	29.2	24.8	17.6	12.2	17.6	24.8	29.2
95°	231.0	144.0	98.0	74.0	58.0	49.0	39.0	35.0	39.0	49.0	58.0
97.5°	311.3	190.0	132.2	105.0	86.6	73.0	62.4	57.0	62.4	73.0	86.6
100°	328.0	206.0	153.0	125.0	105.0	89.0	80.0	77.0	80.0	89.0	105.0
102.5°	328.9	220.4	171.4	143.4	122.6	106.6	97.6	95.4	97.6	106.6	122.6
105°	334.1	245.0	198.0	170.0	148.0	133.0	126.1	122.0	126.1	133.0	148.0
107.5°	347.8	270.3	224.6	196.5	174.6	160.8	154.0	150.8	154.0	160.8	174.6
110°	359.0	287.1	243.1	214.0	193.0	180.0	174.0	170.0	174.0	180.0	193.0



TEST NUMBER: P331701-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	371.1	303.1	260.6	230.8	210.6	198.5	191.7	187.6	191.7	198.5	210.6
115°	389.1	328.0	285.1	258.0	238.1	226.0	220.1	215.1	220.1	226.0	238.1
117.5°	408.3	351.0	311.3	283.3	264.1	253.5	247.5	243.5	247.5	253.5	264.1
120°	421.1	367.0	328.0	300.1	280.1	271.0	265.0	261.1	265.0	271.0	280.1
122.5°	432.3	382.3	345.7	316.8	296.9	287.1	281.0	277.8	281.0	287.1	296.9
125°	450.1	405.1	369.1	341.0	321.1	309.1	303.1	300.1	303.1	309.1	321.1
127.5°	466.7	426.3	391.2	362.5	343.3	330.1	321.7	317.6	321.7	330.1	343.3
130°	477.1	439.1	404.1	376.1	356.1	342.1	332.1	328.0	332.1	342.1	356.1
132.5°	487.5	450.3	416.9	388.9	368.1	353.3	342.5	337.7	342.5	353.3	368.1
135°	501.1	466.1	434.1	406.0	383.1	368.1	356.1	352.1	356.1	368.1	383.1
137.5°	511.5	478.9	447.3	421.3	398.5	382.5	370.5	365.7	370.5	382.5	398.5
140°	517.1	486.1	456.1	430.1	408.1	392.1	380.0	376.1	380.0	392.1	408.1
142.5°	521.9	491.7	462.5	438.1	416.9	400.9	389.7	386.5	389.7	400.9	416.9
145°	528.1	500.1	473.1	451.1	431.1	416.1	406.0	402.1	406.0	416.1	431.1
147.5°	531.5	506.9	481.5	461.9	445.3	431.4	421.9	418.9	421.9	431.4	445.3
150°	533.1	510.1	487.1	469.1	454.1	441.1	433.1	430.1	433.1	441.1	454.1
152.5°	533.9	513.3	492.7	476.3	462.1	450.6	442.7	441.3	442.7	450.6	462.1
155°	535.1	518.1	501.1	486.1	475.1	464.1	458.1	457.1	458.1	464.1	475.1
157.5°	535.1	521.5	507.1	494.5	485.7	476.1	471.3	470.3	471.3	476.1	485.7
160°	535.1	523.1	511.1	500.1	492.1	484.1	480.1	479.1	480.1	484.1	492.1
162.5°	534.3	523.9	513.5	504.9	497.7	491.3	487.3	487.9	487.3	491.3	497.7
165°	532.1	525.1	516.1	510.1	505.1	499.1	497.1	498.1	497.1	499.1	505.1
167.5°	530.7	524.9	518.3	514.5	510.9	507.1	505.3	506.5	505.3	507.1	510.9
170°	529.1	524.1	519.1	516.1	514.1	511.1	510.1	512.1	510.1	511.1	514.1
172.5°	526.7	523.3	519.9	517.7	516.5	513.5	514.1	515.3	514.1	513.5	516.5
175°	524.1	522.1	520.1	519.1	519.1	517.1	518.1	519.1	518.1	517.1	519.1
177.5°	522.5	520.9	520.1	520.1	520.1	518.5	519.3	520.9	519.3	518.5	520.1
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



TEST NUMBER: P331701-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1247.0	1244.5	1239.9	1232.9	1228.6	1221.2	1216.3	1219.2	1219.9	1219.2	1218.5
5°	1213.5	1204.2	1191.5	1179.1	1167.8	1155.5	1148.4	1145.3	1139.2	1135.7	1133.9
7.5°	1172.9	1157.0	1139.0	1117.6	1099.3	1080.3	1070.6	1065.7	1053.1	1046.3	1040.3
10°	1142.7	1117.7	1099.7	1071.5	1054.4	1029.3	1012.2	1012.6	995.5	985.8	978.8
12.5°	1109.3	1081.8	1051.8	1026.5	1002.6	982.6	961.9	953.6	935.3	926.0	907.1
15°	1054.0	1021.8	990.2	955.9	931.8	900.5	870.6	834.1	804.7	779.2	772.2
17.5°	993.4	953.7	922.0	881.8	840.3	787.8	753.2	732.0	714.3	700.9	690.8
20°	951.9	911.5	877.7	817.0	761.2	725.7	700.2	683.9	665.4	650.9	643.0
22.5°	908.4	866.2	820.0	752.3	708.9	680.3	657.5	638.9	626.4	615.0	607.9
25°	846.4	800.3	724.3	677.7	642.6	612.7	596.8	585.4	572.2	556.8	549.8
27.5°	781.1	707.7	653.1	618.5	584.9	565.4	551.2	534.2	522.4	515.5	508.2
30°	732.2	658.8	616.2	578.4	554.7	533.1	516.4	506.8	495.3	483.5	478.6
32.5°	677.7	619.1	578.2	546.7	522.6	504.3	491.1	475.4	467.2	459.9	449.8
35°	610.0	565.7	528.3	502.8	479.9	465.0	449.6	440.4	425.4	419.3	415.3
37.5°	552.7	514.2	486.4	459.4	441.3	424.8	415.4	400.7	394.3	385.7	377.4
40°	520.4	482.6	455.7	433.8	413.5	401.2	389.4	377.5	367.8	363.9	353.8
42.5°	487.3	456.6	429.7	405.6	392.1	379.1	364.1	355.4	345.3	339.0	332.7
45°	441.7	414.5	391.6	371.8	356.9	343.3	333.6	319.1	313.4	300.6	295.3
47.5°	401.7	376.3	354.5	335.7	321.1	312.2	298.1	286.7	277.6	269.8	263.0
50°	373.2	352.1	331.0	314.3	301.1	288.3	273.8	268.1	254.0	250.0	246.2
52.5°	347.2	327.1	307.7	291.4	278.2	265.8	253.0	245.6	236.1	232.1	229.3
55°	310.7	291.4	272.9	258.4	245.2	232.5	224.5	215.3	210.9	207.8	204.4
57.5°	274.1	256.8	242.6	227.9	214.6	204.6	195.4	189.9	185.3	181.2	177.0
60°	251.0	234.3	221.5	207.8	194.2	185.9	178.9	172.3	167.0	160.8	159.1
62.5°	226.4	211.7	200.1	186.8	175.0	167.3	160.6	154.4	148.0	139.1	136.6
65°	192.5	181.1	168.8	157.8	147.2	139.7	130.1	123.0	120.5	119.5	119.1
67.5°	162.0	151.1	140.5	129.3	119.7	112.8	107.9	106.8	105.0	104.4	103.2
70°	141.5	131.4	120.9	110.3	101.1	99.8	98.0	96.3	94.0	93.2	92.3
72.5°	123.2	112.8	102.2	93.8	89.8	88.2	86.4	84.6	83.2	82.3	81.7
75°	94.5	84.8	77.8	74.7	72.5	71.2	68.5	67.2	66.4	65.0	64.6
77.5°	68.0	62.6	59.3	57.4	55.1	53.7	52.2	50.9	49.9	49.7	49.0
80°	51.8	49.2	47.0	44.4	43.5	41.8	41.3	40.0	40.5	39.1	39.1
82.5°	40.3	36.9	35.0	33.8	33.0	31.6	31.1	30.5	30.6	29.6	29.6
85°	20.7	19.8	18.9	18.0	18.0	16.7	17.1	16.7	16.7	15.8	15.4
87.5°	9.0	9.3	9.6	11.0	12.2	12.1	11.9	11.4	10.9	11.4	11.2
90°	12.0	15.0	20.0	27.0	33.0	34.0	33.0	32.0	30.0	32.0	33.0
92.5°	36.0	45.4	68.0	99.8	128.2	130.0	109.9	87.2	74.8	66.4	60.2
95°	74.0	98.0	144.0	231.0	347.1	392.1	343.1	262.1	201.0	159.0	137.0
97.5°	105.0	132.2	190.0	311.3	504.1	669.3	702.1	611.5	500.3	392.1	319.9
100°	125.0	153.0	206.0	328.0	544.1	790.1	934.2	913.2	789.2	652.1	531.1
102.5°	143.4	171.4	220.4	328.9	528.9	794.2	1020.6	1110.9	1082.8	982.6	854.4
105°	170.0	198.0	245.0	334.1	499.1	741.1	1007.2	1215.2	1328.3	1341.3	1308.3
107.5°	196.5	224.6	270.3	347.8	484.3	684.3	919.4	1140.1	1310.3	1414.3	1462.7
110°	214.0	243.1	287.1	359.0	481.1	657.1	864.2	1075.2	1254.2	1382.2	1464.3



TEST NUMBER: P331701-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	230.8	260.6	303.1	371.1	481.9	639.6	825.8	1016.0	1187.8	1324.6	1418.7
115°	258.0	285.1	328.0	389.1	486.1	620.1	778.2	943.2	1097.3	1228.2	1331.3
117.5°	283.3	311.3	351.0	408.3	493.3	610.7	748.1	888.4	1023.6	1142.5	1239.1
120°	300.1	328.0	367.0	421.1	498.1	605.1	732.1	861.2	985.2	1091.2	1182.2
122.5°	316.8	345.7	382.3	432.3	503.7	601.9	718.5	839.6	953.2	1053.6	1135.8
125°	341.0	369.1	405.1	450.1	512.1	596.2	699.1	808.1	911.2	999.2	1074.2
127.5°	362.5	391.2	426.3	466.7	520.7	592.7	681.1	777.1	870.4	953.4	1022.6
130°	376.1	404.1	439.1	477.1	527.1	591.1	669.2	757.2	843.2	922.2	988.2
132.5°	388.9	416.9	450.3	487.5	533.5	590.3	659.5	738.0	817.6	890.2	952.2
135°	406.0	434.1	466.1	501.1	541.1	589.1	646.1	711.1	777.1	843.2	899.1
137.5°	421.3	447.3	478.9	511.5	547.9	588.9	636.7	689.7	744.9	797.4	846.2
140°	430.1	456.1	486.1	517.1	551.1	588.1	631.1	676.1	724.2	770.2	814.2
142.5°	438.1	462.5	491.7	521.9	553.5	588.1	625.5	665.0	705.8	745.4	782.1
145°	451.1	473.1	500.1	528.1	556.1	586.1	618.1	649.1	682.2	713.2	742.2
147.5°	461.9	481.5	506.9	531.5	556.9	582.6	610.5	637.0	663.0	687.2	708.3
150°	469.1	487.1	510.1	533.1	556.1	580.1	604.1	628.1	650.1	671.1	689.1
152.5°	476.3	492.7	513.3	533.9	554.5	576.1	598.5	619.3	639.7	657.5	673.1
155°	486.1	501.1	518.1	535.1	552.1	569.1	588.1	607.1	623.1	638.1	649.1
157.5°	494.5	507.1	521.5	535.1	547.5	561.9	578.3	592.9	606.3	618.9	627.5
160°	500.1	511.1	523.1	535.1	545.1	557.2	571.1	584.1	595.1	606.1	613.1
162.5°	504.9	513.5	523.9	534.3	542.7	553.1	564.7	575.3	584.7	594.1	599.5
165°	510.1	516.1	525.1	532.1	538.1	545.1	554.1	562.1	569.1	576.1	580.1
167.5°	514.5	518.3	524.9	530.7	533.5	538.1	543.7	549.5	554.9	559.7	563.4
170°	516.1	519.1	524.1	529.1	531.1	534.1	538.1	543.1	546.1	550.1	552.1
172.5°	517.7	519.9	523.3	526.7	527.9	529.3	532.5	535.9	538.1	541.3	542.5
175°	519.1	520.1	522.1	524.1	523.1	524.1	525.1	528.1	529.1	530.1	531.1
177.5°	520.1	520.1	520.9	522.5	520.9	520.1	520.9	522.5	522.5	523.3	523.3
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



TEST NUMBER: P331701-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1214.6	1215.3	1214.3	1215.0	1214.3	1215.3	1214.6	1218.5	1219.2	1219.9	1219.2
5°	1131.7	1126.4	1125.6	1124.2	1125.6	1126.4	1131.7	1133.9	1135.7	1139.2	1145.3
7.5°	1032.8	1031.9	1029.8	1026.7	1029.8	1031.9	1032.8	1040.3	1046.3	1053.1	1065.7
10°	969.1	966.9	966.5	963.4	966.5	966.9	969.1	978.8	985.8	995.5	1012.6
12.5°	894.6	880.4	878.9	871.2	878.9	880.4	894.6	907.1	926.0	935.3	953.6
15°	761.6	759.1	750.2	744.5	750.2	759.1	761.6	772.2	779.2	804.7	834.1
17.5°	685.7	677.1	674.3	673.1	674.3	677.1	685.7	690.8	700.9	714.3	732.0
20°	636.8	629.0	627.6	626.7	627.6	629.0	636.8	643.0	650.9	665.4	683.9
22.5°	603.0	594.8	591.4	588.8	591.4	594.8	603.0	607.9	615.0	626.4	638.9
25°	545.4	542.3	540.6	539.7	540.6	542.3	545.4	549.8	556.8	572.2	585.4
27.5°	500.3	493.5	492.2	490.0	492.2	493.5	500.3	508.2	515.5	522.4	534.2
30°	474.7	472.4	469.4	466.7	469.4	472.4	474.7	478.6	483.5	495.3	506.8
32.5°	444.4	442.6	439.9	438.6	439.9	442.6	444.4	449.8	459.9	467.2	475.4
35°	411.0	404.8	402.2	398.2	402.2	404.8	411.0	415.3	419.3	425.4	440.4
37.5°	375.5	372.3	368.6	369.9	368.6	372.3	375.5	377.4	385.7	394.3	400.7
40°	348.1	345.9	345.0	344.6	345.0	345.9	348.1	353.8	363.9	367.8	377.5
42.5°	326.3	320.2	318.0	317.9	318.0	320.2	326.3	332.7	339.0	345.3	355.4
45°	293.2	287.4	283.4	284.0	283.4	287.4	293.2	295.3	300.6	313.4	319.1
47.5°	259.2	259.1	256.6	257.4	256.6	259.1	259.2	263.0	269.8	277.6	286.7
50°	243.1	240.4	238.7	239.1	238.7	240.4	243.1	246.2	250.0	254.0	268.1
52.5°	227.6	225.3	223.9	225.8	223.9	225.3	227.6	229.3	232.1	236.1	245.6
55°	202.2	199.5	199.1	198.6	199.1	199.5	202.2	204.4	207.8	210.9	215.3
57.5°	173.7	172.0	169.4	168.2	169.4	172.0	173.7	177.0	181.2	185.3	189.9
60°	153.3	149.9	145.5	145.0	145.5	149.9	153.3	159.1	160.8	167.0	172.3
62.5°	134.7	134.1	133.2	133.1	133.2	134.1	134.7	136.6	139.1	148.0	154.4
65°	118.2	117.8	118.2	118.6	118.2	117.8	118.2	119.1	119.5	120.5	123.0
67.5°	103.1	102.2	101.4	101.8	101.4	102.2	103.1	103.2	104.4	105.0	106.8
70°	91.4	91.0	90.6	90.6	90.6	91.0	91.4	92.3	93.2	94.0	96.3
72.5°	80.2	80.1	79.6	79.3	79.6	80.1	80.2	81.7	82.3	83.2	84.6
75°	64.1	63.3	63.3	63.3	63.3	63.3	64.1	64.6	65.0	66.4	67.2
77.5°	48.9	48.5	48.0	47.6	48.0	48.5	48.9	49.0	49.7	49.9	50.9
80°	38.7	38.2	37.8	37.8	37.8	38.2	38.7	39.1	39.1	40.5	40.0
82.5°	29.5	29.1	29.0	28.7	29.0	29.1	29.5	29.6	29.6	30.6	30.5
85°	15.8	16.3	15.8	16.7	15.8	16.3	15.8	15.4	15.8	16.7	16.7
87.5°	11.2	10.8	11.2	10.8	11.2	10.8	11.2	11.2	11.4	10.9	11.4
90°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	32.0	30.0	32.0
92.5°	59.4	56.2	57.0	55.4	57.0	56.2	59.4	60.2	66.4	74.8	87.2
95°	124.0	116.1	113.0	114.0	113.0	116.1	124.0	137.0	159.0	201.0	262.1
97.5°	272.1	247.5	232.8	224.5	232.8	247.5	272.1	319.9	392.1	500.3	611.5
100°	448.1	405.1	376.1	358.1	376.1	405.1	448.1	531.1	652.1	789.2	913.2
102.5°	764.1	690.8	654.5	630.2	654.5	690.8	764.1	854.4	982.6	1082.8	1110.9
105°	1246.2	1184.2	1141.3	1127.2	1141.3	1184.2	1246.2	1308.3	1341.3	1328.3	1215.2
107.5°	1470.5	1467.1	1458.4	1439.9	1458.4	1467.1	1470.5	1462.7	1414.3	1310.3	1140.1
110°	1507.3	1526.3	1535.3	1534.3	1535.3	1526.3	1507.3	1464.3	1382.2	1254.2	1075.2



TEST NUMBER: P331701-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1478.5	1510.3	1527.3	1532.7	1527.3	1510.3	1478.5	1418.7	1324.6	1187.8	1016.0
115°	1402.3	1448.3	1474.3	1483.3	1474.3	1448.3	1402.3	1331.3	1228.2	1097.3	943.2
117.5°	1311.5	1360.0	1387.5	1395.1	1387.5	1360.0	1311.5	1239.1	1142.5	1023.6	888.4
120°	1252.2	1299.2	1328.3	1338.3	1328.3	1299.2	1252.2	1182.2	1091.2	985.2	861.2
122.5°	1198.6	1244.8	1270.7	1279.0	1270.7	1244.8	1198.6	1135.8	1053.6	953.2	839.6
125°	1132.2	1170.3	1195.2	1203.2	1195.2	1170.3	1132.2	1074.2	999.2	911.2	808.1
127.5°	1073.2	1108.8	1130.4	1136.9	1130.4	1108.8	1073.2	1022.6	953.4	870.4	777.1
130°	1037.2	1071.3	1091.2	1099.2	1091.2	1071.3	1037.2	988.2	922.2	843.2	757.2
132.5°	1000.4	1034.4	1052.8	1060.0	1052.8	1034.4	1000.4	952.2	890.2	817.6	738.0
135°	942.2	975.2	993.2	997.2	993.2	975.2	942.2	899.1	843.2	777.1	711.1
137.5°	885.4	913.8	929.6	935.6	929.6	913.8	885.4	846.2	797.4	744.9	689.7
140°	846.2	872.2	887.2	893.2	887.2	872.2	846.2	814.2	770.2	724.2	676.1
142.5°	812.5	836.2	849.5	850.8	849.5	836.2	812.5	782.1	745.4	705.8	665.0
145°	766.1	783.2	793.2	796.2	793.2	783.2	766.1	742.2	713.2	682.2	649.1
147.5°	728.1	741.8	748.6	750.4	748.6	741.8	728.1	708.3	687.2	663.0	637.0
150°	704.1	716.2	722.1	723.2	722.1	716.2	704.1	689.1	671.1	650.1	628.1
152.5°	684.9	695.3	699.7	699.9	699.7	695.3	684.9	673.1	657.5	639.7	619.3
155°	660.1	667.1	671.1	669.2	671.1	667.1	660.1	649.1	638.1	623.1	607.1
157.5°	635.3	641.1	642.9	642.9	642.9	641.1	635.3	627.5	618.9	606.3	592.9
160°	620.1	625.1	626.1	626.1	626.1	625.1	620.1	613.1	606.1	595.1	584.1
162.5°	606.5	609.9	610.9	610.1	610.9	609.9	606.5	599.5	594.1	584.7	575.3
165°	584.1	588.1	588.1	587.1	588.1	588.1	584.1	580.1	576.1	569.1	562.1
167.5°	565.1	567.3	567.1	565.9	567.1	567.3	565.1	563.4	559.7	554.9	549.5
170°	553.1	556.1	555.1	553.1	555.1	556.1	553.1	552.1	550.1	546.1	543.1
172.5°	543.5	544.9	543.9	542.7	543.9	544.9	543.5	542.5	541.3	538.1	535.9
175°	531.1	532.1	531.1	529.1	531.1	532.1	531.1	531.1	530.1	529.1	528.1
177.5°	523.3	523.3	522.5	520.9	522.5	523.3	523.3	523.3	523.3	522.5	522.5
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



TEST NUMBER: P331701-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1216.3	1221.2	1228.6	1232.9	1239.9	1244.5	1247.0	1251.5	1254.0	1262.7	1272.0
5°	1148.4	1155.5	1167.8	1179.1	1191.5	1204.2	1213.5	1224.0	1233.6	1250.3	1268.0
7.5°	1070.6	1080.3	1099.3	1117.6	1139.0	1157.0	1172.9	1190.9	1207.0	1231.0	1255.9
10°	1012.2	1029.3	1054.4	1071.5	1099.7	1117.7	1142.7	1162.4	1184.9	1216.5	1244.7
12.5°	961.9	982.6	1002.6	1026.5	1051.8	1081.8	1109.3	1134.7	1161.3	1194.0	1227.1
15°	870.6	900.5	931.8	955.9	990.2	1021.8	1054.0	1088.2	1120.8	1159.9	1202.9
17.5°	753.2	787.8	840.3	881.8	922.0	953.7	993.4	1034.9	1073.2	1120.4	1168.4
20°	700.2	725.7	761.2	817.0	877.7	911.5	951.9	997.6	1041.6	1093.0	1144.4
22.5°	657.5	680.3	708.9	752.3	820.0	866.2	908.4	954.8	1005.7	1058.3	1115.3
25°	596.8	612.7	642.6	677.7	724.3	800.3	846.4	893.0	948.5	1004.7	1069.7
27.5°	551.2	565.4	584.9	618.5	653.1	707.7	781.1	831.9	887.1	950.4	1017.9
30°	516.4	533.1	554.7	578.4	616.2	658.8	732.2	791.1	845.6	910.7	982.7
32.5°	491.1	504.3	522.6	546.7	578.2	619.1	677.7	749.2	802.4	870.9	946.2
35°	449.6	465.0	479.9	502.8	528.3	565.7	610.0	686.5	739.3	806.9	882.5
37.5°	415.4	424.8	441.3	459.4	486.4	514.2	552.7	621.3	678.3	744.8	822.2
40°	389.4	401.2	413.5	433.8	455.7	482.6	520.4	571.4	636.8	701.9	777.5
42.5°	364.1	379.1	392.1	405.6	429.7	456.6	487.3	530.5	597.4	659.0	732.5
45°	333.6	343.3	356.9	371.8	391.6	414.5	441.7	479.5	543.6	596.8	665.8
47.5°	298.1	312.2	321.1	335.7	354.5	376.3	401.7	434.3	486.3	536.1	600.1
50°	273.8	288.3	301.1	314.3	331.0	352.1	373.2	404.8	446.5	498.9	558.6
52.5°	253.0	265.8	278.2	291.4	307.7	327.1	347.2	374.9	410.7	458.7	516.8
55°	224.5	232.5	245.2	258.4	272.9	291.4	310.7	334.0	364.8	405.2	452.3
57.5°	195.4	204.6	214.6	227.9	242.6	256.8	274.1	295.2	319.5	356.1	396.3
60°	178.9	185.9	194.2	207.8	221.5	234.3	251.0	268.5	291.4	323.0	357.3
62.5°	160.6	167.3	175.0	186.8	200.1	211.7	226.4	245.0	264.3	293.2	323.2
65°	130.1	139.7	147.2	157.8	168.8	181.1	192.5	207.4	224.5	247.5	274.2
67.5°	107.9	112.8	119.7	129.3	140.5	151.1	162.0	173.6	188.5	206.1	227.4
70°	98.0	99.8	101.1	110.3	120.9	131.4	141.5	152.5	165.2	179.8	198.2
72.5°	86.4	88.2	89.8	93.8	102.2	112.8	123.2	131.4	143.4	155.5	170.5
75°	68.5	71.2	72.5	74.7	77.8	84.8	94.5	102.4	109.4	118.6	130.5
77.5°	52.2	53.7	55.1	57.4	59.3	62.6	68.0	75.2	81.7	87.1	95.3
80°	41.3	41.8	43.5	44.4	47.0	49.2	51.8	57.6	64.1	66.4	72.1
82.5°	31.1	31.6	33.0	33.8	35.0	36.9	40.3	41.8	46.9	49.9	53.5
85°	17.1	16.7	18.0	18.0	18.9	19.8	20.7	22.8	24.2	27.7	28.6
87.5°	11.9	12.1	12.2	11.0	9.6	9.3	9.0	9.0	9.3	9.6	10.4
90°	33.0	34.0	33.0	27.0	20.0	15.0	12.0	10.0	8.0	4.0	1.0
92.5°	109.9	130.0	128.2	99.8	68.0	45.4	36.0	29.2	24.8	17.6	12.2
95°	343.1	392.1	347.1	231.0	144.0	98.0	74.0	58.0	49.0	39.0	35.0
97.5°	702.1	669.3	504.1	311.3	190.0	132.2	105.0	86.6	73.0	62.4	57.0
100°	934.2	790.1	544.1	328.0	206.0	153.0	125.0	105.0	89.0	80.0	77.0
102.5°	1020.6	794.2	528.9	328.9	220.4	171.4	143.4	122.6	106.6	97.6	95.4
105°	1007.2	741.1	499.1	334.1	245.0	198.0	170.0	148.0	133.0	126.1	122.0
107.5°	919.4	684.3	484.3	347.8	270.3	224.6	196.5	174.6	160.8	154.0	150.8
110°	864.2	657.1	481.1	359.0	287.1	243.1	214.0	193.0	180.0	174.0	170.0



TEST NUMBER: P331701-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	825.8	639.6	481.9	371.1	303.1	260.6	230.8	210.6	198.5	191.7	187.6
115°	778.2	620.1	486.1	389.1	328.0	285.1	258.0	238.1	226.0	220.1	215.1
117.5°	748.1	610.7	493.3	408.3	351.0	311.3	283.3	264.1	253.5	247.5	243.5
120°	732.1	605.1	498.1	421.1	367.0	328.0	300.1	280.1	271.0	265.0	261.1
122.5°	718.5	601.9	503.7	432.3	382.3	345.7	316.8	296.9	287.1	281.0	277.8
125°	699.1	596.2	512.1	450.1	405.1	369.1	341.0	321.1	309.1	303.1	300.1
127.5°	681.1	592.7	520.7	466.7	426.3	391.2	362.5	343.3	330.1	321.7	317.6
130°	669.2	591.1	527.1	477.1	439.1	404.1	376.1	356.1	342.1	332.1	328.0
132.5°	659.5	590.3	533.5	487.5	450.3	416.9	388.9	368.1	353.3	342.5	337.7
135°	646.1	589.1	541.1	501.1	466.1	434.1	406.0	383.1	368.1	356.1	352.1
137.5°	636.7	588.9	547.9	511.5	478.9	447.3	421.3	398.5	382.5	370.5	365.7
140°	631.1	588.1	551.1	517.1	486.1	456.1	430.1	408.1	392.1	380.0	376.1
142.5°	625.5	588.1	553.5	521.9	491.7	462.5	438.1	416.9	400.9	389.7	386.5
145°	618.1	586.1	556.1	528.1	500.1	473.1	451.1	431.1	416.1	406.0	402.1
147.5°	610.5	582.6	556.9	531.5	506.9	481.5	461.9	445.3	431.4	421.9	418.9
150°	604.1	580.1	556.1	533.1	510.1	487.1	469.1	454.1	441.1	433.1	430.1
152.5°	598.5	576.1	554.5	533.9	513.3	492.7	476.3	462.1	450.6	442.7	441.3
155°	588.1	569.1	552.1	535.1	518.1	501.1	486.1	475.1	464.1	458.1	457.1
157.5°	578.3	561.9	547.5	535.1	521.5	507.1	494.5	485.7	476.1	471.3	470.3
160°	571.1	557.2	545.1	535.1	523.1	511.1	500.1	492.1	484.1	480.1	479.1
162.5°	564.7	553.1	542.7	534.3	523.9	513.5	504.9	497.7	491.3	487.3	487.9
165°	554.1	545.1	538.1	532.1	525.1	516.1	510.1	505.1	499.1	497.1	498.1
167.5°	543.7	538.1	533.5	530.7	524.9	518.3	514.5	510.9	507.1	505.3	506.5
170°	538.1	534.1	531.1	529.1	524.1	519.1	516.1	514.1	511.1	510.1	512.1
172.5°	532.5	529.3	527.9	526.7	523.3	519.9	517.7	516.5	513.5	514.1	515.3
175°	525.1	524.1	523.1	524.1	522.1	520.1	519.1	519.1	517.1	518.1	519.1
177.5°	520.9	520.1	520.9	522.5	520.9	520.1	520.1	520.1	518.5	519.3	520.9
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



TEST NUMBER: P331701-935

CATALOG NUMBER: SA2XXRDIP-C675D1080U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1272.3	1273.3	1280.4	1283.5	1289.9	1292.3	1295.1	1294.4	1294.4	1295.8	1305.7
5°	1275.0	1283.8	1296.9	1309.7	1322.0	1332.6	1339.6	1346.6	1349.3	1362.0	1373.5
7.5°	1270.4	1286.6	1308.4	1327.8	1351.1	1369.3	1384.4	1398.1	1407.4	1425.9	1444.9
10°	1264.5	1287.3	1311.9	1337.0	1369.1	1393.2	1417.8	1436.8	1442.9	1470.6	1486.4
12.5°	1252.5	1283.1	1314.4	1346.8	1378.2	1411.5	1438.6	1457.5	1479.1	1504.0	1533.2
15°	1234.6	1269.7	1310.6	1352.4	1397.1	1437.6	1466.6	1499.6	1523.3	1550.6	1576.1
17.5°	1208.8	1254.0	1306.1	1354.4	1406.2	1449.7	1489.5	1521.2	1537.9	1553.4	1557.2
20°	1188.4	1237.2	1298.3	1355.4	1407.3	1457.4	1496.9	1523.3	1527.7	1528.1	1504.9
22.5°	1166.2	1221.3	1285.3	1343.8	1405.8	1461.6	1492.4	1503.7	1486.2	1456.4	1411.4
25°	1125.6	1189.3	1263.6	1330.3	1398.1	1450.8	1461.4	1441.6	1380.4	1316.3	1235.0
27.5°	1081.4	1153.1	1232.7	1307.0	1379.1	1411.8	1389.0	1317.7	1207.6	1112.0	996.1
30°	1049.1	1129.5	1207.7	1290.8	1357.6	1371.7	1319.4	1214.4	1086.0	941.8	826.3
32.5°	1012.2	1096.5	1182.4	1268.3	1324.2	1310.5	1224.1	1094.8	944.3	802.6	693.4
35°	959.4	1046.5	1139.2	1225.3	1260.9	1201.6	1072.4	904.0	750.2	617.9	542.8
37.5°	898.5	993.2	1089.7	1168.8	1166.2	1067.4	891.4	717.6	588.3	510.1	456.6
40°	855.2	951.1	1055.2	1122.1	1093.5	964.7	774.0	610.0	515.6	453.1	414.0
42.5°	813.8	909.9	1013.4	1066.5	1016.8	858.5	668.5	540.0	462.1	413.4	381.7
45°	743.2	844.7	940.6	970.0	881.2	706.7	540.6	447.4	395.5	359.6	337.5
47.5°	674.2	774.0	861.5	862.0	741.9	573.1	456.0	387.2	342.9	315.0	299.0
50°	632.0	726.9	800.3	788.9	652.6	509.8	407.9	348.5	311.6	290.1	273.4
52.5°	584.5	676.7	740.2	707.7	577.0	448.7	364.6	314.8	284.2	265.4	250.6
55°	515.6	597.3	642.1	592.9	470.7	373.2	308.1	269.0	246.2	230.3	217.6
57.5°	447.7	515.2	543.4	486.1	387.7	309.4	260.6	231.3	208.6	197.3	190.6
60°	405.2	462.8	482.6	419.3	337.1	270.7	230.7	203.5	186.8	179.3	172.7
62.5°	363.3	410.4	418.6	360.6	293.9	236.9	202.6	179.6	168.5	161.4	155.2
65°	301.5	335.4	331.4	284.8	232.5	188.1	163.1	149.0	140.6	130.5	119.5
67.5°	248.2	268.9	256.4	221.5	177.5	146.2	129.8	119.2	108.8	99.3	96.7
70°	214.5	226.4	213.2	181.1	145.5	122.6	109.4	96.7	90.6	88.3	84.4
72.5°	182.1	186.2	172.0	144.5	118.4	101.5	88.7	81.5	78.3	76.4	73.9
75°	136.7	133.6	121.3	99.8	82.2	70.8	66.8	64.1	62.0	60.2	58.9
77.5°	96.0	91.5	80.5	66.5	57.3	51.7	49.4	48.0	46.9	46.1	44.8
80°	72.1	69.0	58.0	47.4	43.5	40.9	39.5	37.8	37.8	36.9	35.6
82.5°	52.8	49.3	39.7	34.8	32.6	31.0	30.0	29.0	28.7	28.8	27.9
85°	27.7	22.4	19.8	18.9	17.6	16.7	17.1	16.3	16.3	16.3	15.8
87.5°	9.2	8.3	8.4	8.4	9.3	10.3	11.4	12.6	13.1	12.6	12.7
90°	4.0	8.0	10.0	12.0	15.0	20.0	27.0	33.0	34.0	33.0	32.0
92.5°	17.6	24.8	29.2	36.0	45.4	68.0	99.8	128.2	130.0	109.9	87.2
95°	39.0	49.0	58.0	74.0	98.0	144.0	231.0	347.1	392.1	343.1	262.1
97.5°	62.4	73.0	86.6	105.0	132.2	190.0	311.3	504.1	669.3	702.1	611.5
100°	80.0	89.0	105.0	125.0	153.0	206.0	328.0	544.1	790.1	934.2	913.2
102.5°	97.6	106.6	122.6	143.4	171.4	220.4	328.9	528.9	794.2	1020.6	1110.9
105°	126.1	133.0	148.0	170.0	198.0	245.0	334.1	499.1	741.1	1007.2	1215.2
107.5°	154.0	160.8	174.6	196.5	224.6	270.3	347.8	484.3	684.3	919.4	1140.1
110°	174.0	180.0	193.0	214.0	243.1	287.1	359.0	481.1	657.1	864.2	1075.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	191.7	198.5	210.6	230.8	260.6	303.1	371.1	481.9	639.6	825.8	1016.0
115°	220.1	226.0	238.1	258.0	285.1	328.0	389.1	486.1	620.1	778.2	943.2
117.5°	247.5	253.5	264.1	283.3	311.3	351.0	408.3	493.3	610.7	748.1	888.4
120°	265.0	271.0	280.1	300.1	328.0	367.0	421.1	498.1	605.1	732.1	861.2
122.5°	281.0	287.1	296.9	316.8	345.7	382.3	432.3	503.7	601.9	718.5	839.6
125°	303.1	309.1	321.1	341.0	369.1	405.1	450.1	512.1	596.2	699.1	808.1
127.5°	321.7	330.1	343.3	362.5	391.2	426.3	466.7	520.7	592.7	681.1	777.1
130°	332.1	342.1	356.1	376.1	404.1	439.1	477.1	527.1	591.1	669.2	757.2
132.5°	342.5	353.3	368.1	388.9	416.9	450.3	487.5	533.5	590.3	659.5	738.0
135°	356.1	368.1	383.1	406.0	434.1	466.1	501.1	541.1	589.1	646.1	711.1
137.5°	370.5	382.5	398.5	421.3	447.3	478.9	511.5	547.9	588.9	636.7	689.7
140°	380.0	392.1	408.1	430.1	456.1	486.1	517.1	551.1	588.1	631.1	676.1
142.5°	389.7	400.9	416.9	438.1	462.5	491.7	521.9	553.5	588.1	625.5	665.0
145°	406.0	416.1	431.1	451.1	473.1	500.1	528.1	556.1	586.1	618.1	649.1
147.5°	421.9	431.4	445.3	461.9	481.5	506.9	531.5	556.9	582.6	610.5	637.0
150°	433.1	441.1	454.1	469.1	487.1	510.1	533.1	556.1	580.1	604.1	628.1
152.5°	442.7	450.6	462.1	476.3	492.7	513.3	533.9	554.5	576.1	598.5	619.3
155°	458.1	464.1	475.1	486.1	501.1	518.1	535.1	552.1	569.1	588.1	607.1
157.5°	471.3	476.1	485.7	494.5	507.1	521.5	535.1	547.5	561.9	578.3	592.9
160°	480.1	484.1	492.1	500.1	511.1	523.1	535.1	545.1	557.2	571.1	584.1
162.5°	487.3	491.3	497.7	504.9	513.5	523.9	534.3	542.7	553.1	564.7	575.3
165°	497.1	499.1	505.1	510.1	516.1	525.1	532.1	538.1	545.1	554.1	562.1
167.5°	505.3	507.1	510.9	514.5	518.3	524.9	530.7	533.5	538.1	543.7	549.5
170°	510.1	511.1	514.1	516.1	519.1	524.1	529.1	531.1	534.1	538.1	543.1
172.5°	514.1	513.5	516.5	517.7	519.9	523.3	526.7	527.9	529.3	532.5	535.9
175°	518.1	517.1	519.1	519.1	520.1	522.1	524.1	523.1	524.1	525.1	528.1
177.5°	519.3	518.5	520.1	520.1	520.1	520.9	522.5	520.9	520.1	520.9	522.5
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1309.2	1313.7	1315.9	1315.9	1318.4	1317.2	1316.2
5°	1384.4	1392.8	1394.6	1402.5	1408.2	1406.4	1407.3
7.5°	1459.2	1472.7	1485.9	1492.0	1493.0	1496.5	1497.8
10°	1505.3	1516.3	1537.0	1533.9	1549.2	1558.1	1543.5
12.5°	1549.6	1564.4	1578.7	1582.7	1591.5	1594.2	1588.5
15°	1589.7	1597.6	1598.4	1596.3	1598.9	1596.7	1588.4
17.5°	1552.2	1539.4	1513.4	1501.1	1491.3	1476.9	1471.1
20°	1490.3	1452.5	1408.6	1391.0	1370.4	1329.9	1339.6
22.5°	1356.8	1313.6	1269.7	1218.4	1193.9	1155.5	1153.2
25°	1148.8	1074.6	992.8	935.7	902.3	864.1	847.4
27.5°	893.2	799.7	732.7	698.8	668.0	637.7	636.4
30°	725.1	654.9	603.0	574.0	555.1	542.3	545.0
32.5°	611.2	563.1	528.1	504.0	490.1	480.4	480.3
35°	499.7	466.7	444.4	434.2	424.1	417.1	417.5
37.5°	427.7	407.9	395.4	384.2	377.9	374.4	372.6
40°	390.7	374.4	364.8	358.2	352.9	348.1	347.2
42.5°	361.5	348.1	338.4	333.2	328.3	324.9	324.0
45°	320.8	309.9	301.1	295.3	293.2	290.1	290.1
47.5°	285.4	274.6	267.8	264.2	260.4	258.3	258.2
50°	261.5	253.1	247.0	244.8	241.7	240.4	240.0
52.5°	240.0	233.8	229.5	227.9	226.6	224.9	225.2
55°	210.9	207.4	205.7	204.4	202.2	199.5	201.3
57.5°	186.4	183.5	178.7	174.6	172.5	170.7	171.4
60°	169.2	163.1	156.9	152.1	150.8	146.8	146.8
62.5°	147.4	138.8	131.2	128.5	127.2	125.4	125.0
65°	113.4	109.9	108.1	106.3	105.5	105.5	104.6
67.5°	93.9	92.6	90.7	90.1	89.3	89.0	88.8
70°	83.1	81.3	80.4	80.0	79.1	79.6	78.3
72.5°	72.5	71.1	70.9	69.8	69.2	69.3	68.4
75°	57.2	57.2	56.7	56.2	55.4	54.9	55.4
77.5°	43.9	44.0	43.2	43.1	43.0	43.1	42.7
80°	35.1	35.6	35.1	34.7	34.3	34.7	34.3
82.5°	27.8	27.1	27.0	26.9	26.9	26.6	26.5
85°	15.8	16.3	15.8	15.4	15.4	15.4	15.8
87.5°	12.0	12.4	12.6	12.6	12.6	12.6	12.2
90°	30.0	32.0	33.0	33.0	33.0	33.0	33.0
92.5°	74.8	66.4	60.2	59.4	56.2	57.0	55.4
95°	201.0	159.0	137.0	124.0	116.1	113.0	114.0
97.5°	500.3	392.1	319.9	272.1	247.5	232.8	224.5
100°	789.2	652.1	531.1	448.1	405.1	376.1	358.1
102.5°	1082.8	982.6	854.4	764.1	690.8	654.5	630.2
105°	1328.3	1341.3	1308.3	1246.2	1184.2	1141.3	1127.2
107.5°	1310.3	1414.3	1462.7	1470.5	1467.1	1458.4	1439.9
110°	1254.2	1382.2	1464.3	1507.3	1526.3	1535.3	1534.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1187.8	1324.6	1418.7	1478.5	1510.3	1527.3	1532.7
115°	1097.3	1228.2	1331.3	1402.3	1448.3	1474.3	1483.3
117.5°	1023.6	1142.5	1239.1	1311.5	1360.0	1387.5	1395.1
120°	985.2	1091.2	1182.2	1252.2	1299.2	1328.3	1338.3
122.5°	953.2	1053.6	1135.8	1198.6	1244.8	1270.7	1279.0
125°	911.2	999.2	1074.2	1132.2	1170.3	1195.2	1203.2
127.5°	870.4	953.4	1022.6	1073.2	1108.8	1130.4	1136.9
130°	843.2	922.2	988.2	1037.2	1071.3	1091.2	1099.2
132.5°	817.6	890.2	952.2	1000.4	1034.4	1052.8	1060.0
135°	777.1	843.2	899.1	942.2	975.2	993.2	997.2
137.5°	744.9	797.4	846.2	885.4	913.8	929.6	935.6
140°	724.2	770.2	814.2	846.2	872.2	887.2	893.2
142.5°	705.8	745.4	782.1	812.5	836.2	849.5	850.8
145°	682.2	713.2	742.2	766.1	783.2	793.2	796.2
147.5°	663.0	687.2	708.3	728.1	741.8	748.6	750.4
150°	650.1	671.1	689.1	704.1	716.2	722.1	723.2
152.5°	639.7	657.5	673.1	684.9	695.3	699.7	699.9
155°	623.1	638.1	649.1	660.1	667.1	671.1	669.2
157.5°	606.3	618.9	627.5	635.3	641.1	642.9	642.9
160°	595.1	606.1	613.1	620.1	625.1	626.1	626.1
162.5°	584.7	594.1	599.5	606.5	609.9	610.9	610.1
165°	569.1	576.1	580.1	584.1	588.1	588.1	587.1
167.5°	554.9	559.7	563.4	565.1	567.3	567.1	565.9
170°	546.1	550.1	552.1	553.1	556.1	555.1	553.1
172.5°	538.1	541.3	542.5	543.5	544.9	543.9	542.7
175°	529.1	530.1	531.1	531.1	532.1	531.1	529.1
177.5°	522.5	523.3	523.3	523.3	523.3	522.5	520.9
180°	520.1	520.1	520.1	520.1	520.1	520.1	520.1

(END OF REPORT)