

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: P331350-830

Luminaire Tested: **SA2XXDIP-C675D725U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331350-830
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: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

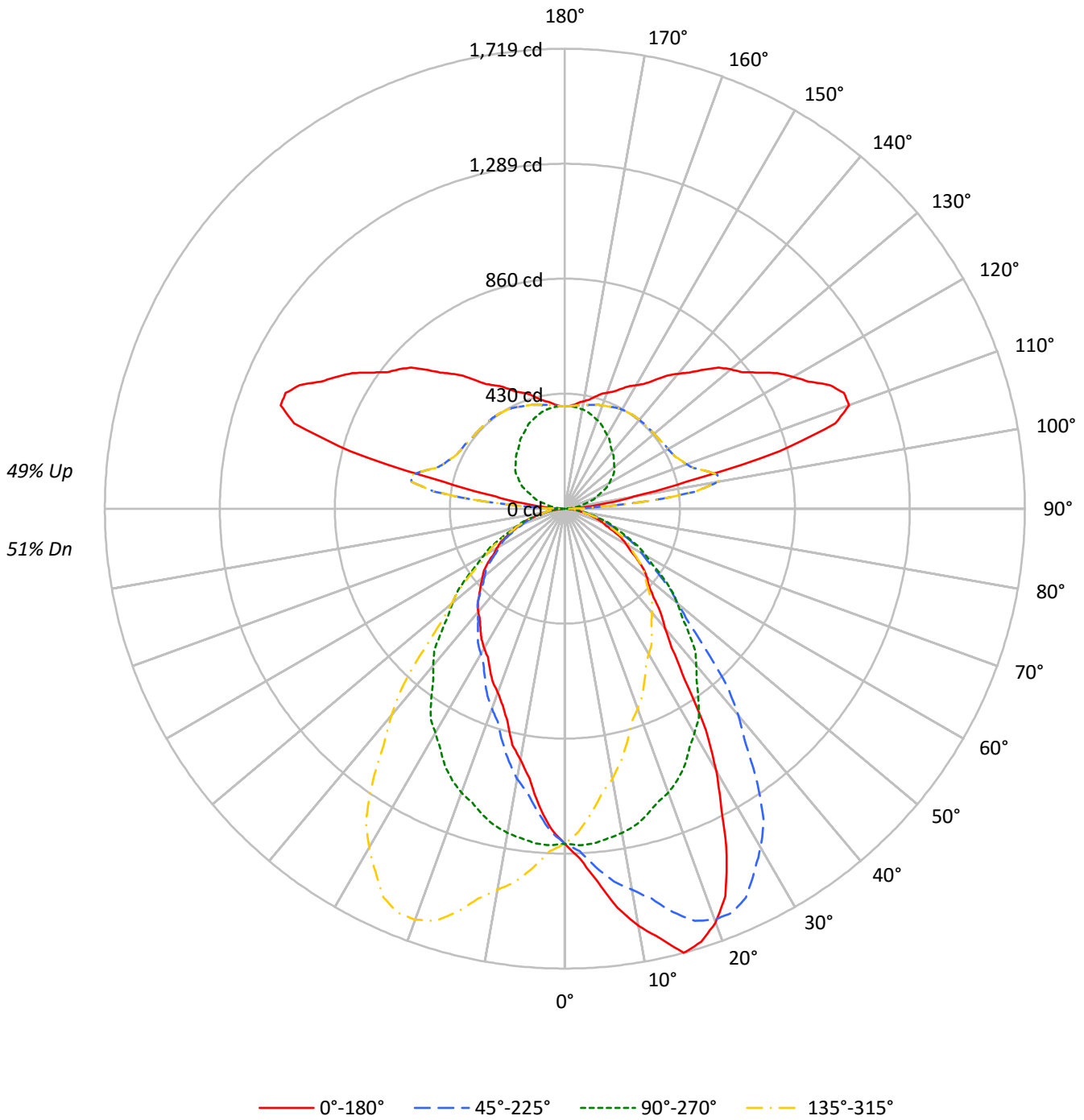
Lumens per Lamp: N/A
Luminaire Lumens: 5431.6 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 45.9
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	67	66	62	59	55	52	50	46	44	42	37
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	45	64	54	47	42	47	41	37	40	36	33	33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	23	20	18
9	52	40	32	27	48	37	31	26	33	27	23	28	24	21	24	21	18	16
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20215	20215	20215	20215
5°	22663	20345	18029	20345
10°	25968	20179	15603	20179
15°	28727	19809	13785	19809
20°	28290	19411	12565	19411
25°	25509	18884	11794	18884
30°	21080	18040	11231	18040
35°	15364	17156	10831	17156
40°	12271	16115	10608	16115
45°	10723	14908	10305	14908
50°	10078	13742	10105	13742
55°	9292	12555	9833	12555
60°	8512	11296	9416	11296
65°	7755	10166	9005	10166
70°	7039	9064	8403	9064
75°	6245	7829	7442	7829
80°	5374	6481	5997	6481
85°	4817	4817	3557	4817



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	2.2
10°-20°	346.6	6.4
20°-30°	503.1	9.3
30°-40°	530.9	9.8
40°-50°	470.0	8.7
50°-60°	375.1	6.9
60°-70°	254.9	4.7
70°-80°	130.7	2.4
80°-90°	35.0	0.6
90°-100°	153.2	2.8
100°-110°	519.8	9.6
110°-120°	552.3	10.2
120°-130°	454.6	8.4
130°-140°	365.1	6.7
140°-150°	275.9	5.1
150°-160°	193.9	3.6
160°-170°	114.1	2.1
170°-180°	37.1	0.7
0°-30°	968.9	17.8
0°-40°	1499.8	27.6
0°-60°	2344.9	43.2
0°-90°	2765.5	50.9
90°-120°	1225.3	22.6
90°-150°	2320.9	42.7
90°-180°	2666.0	49.1
0°-180°	5431.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1398	1255	1112	1255	1398	140
15°	1719	1185	825	1185	1719	474
25°	1432	1060	662	1060	1432	647
35°	780	870	550	870	780	507
45°	470	653	451	653	470	369
55°	330	446	349	446	330	296
65°	203	266	236	266	203	202
75°	100	126	119	126	100	107
85°	26	26	19	26	26	29
90°	24	1	24	1	24	14
95°	84	26	84	26	84	109
105°	830	90	830	90	830	803
115°	1093	158	1093	158	1093	1070
125°	886	221	886	221	886	801
135°	735	259	735	259	735	571
145°	586	296	586	296	586	372
155°	493	337	493	337	493	230
165°	432	367	432	367	432	124
175°	390	382	390	382	390	38
180°	383	383	383	383	383	



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1309.7	1310.0	1310.9	1304.7	1303.9	1303.9	1298.5	1293.9	1288.5	1281.2	1282.0
5°	1398.3	1403.5	1405.4	1399.7	1391.0	1390.1	1381.9	1368.4	1355.8	1345.8	1338.6
7.5°	1503.9	1506.0	1501.3	1493.6	1487.2	1475.7	1460.5	1445.6	1424.7	1405.5	1391.3
10°	1583.9	1586.9	1578.7	1567.6	1558.5	1545.0	1522.9	1500.2	1472.8	1446.3	1425.1
12.5°	1644.7	1651.9	1641.4	1639.9	1624.3	1605.8	1579.4	1568.0	1529.4	1492.5	1469.8
15°	1718.6	1718.2	1719.2	1710.1	1698.5	1695.5	1667.6	1637.4	1583.0	1561.3	1523.8
17.5°	1697.3	1704.6	1708.0	1707.9	1707.6	1705.8	1696.9	1677.7	1650.5	1615.3	1572.0
20°	1646.5	1656.1	1657.6	1668.7	1674.9	1683.1	1686.4	1681.1	1664.3	1634.9	1597.4
22.5°	1568.0	1570.7	1575.2	1592.4	1606.0	1626.5	1637.2	1655.0	1648.5	1634.2	1602.8
25°	1431.9	1427.1	1444.0	1452.6	1483.8	1516.6	1540.2	1566.1	1589.2	1603.2	1594.0
27.5°	1268.5	1261.3	1286.5	1309.5	1334.9	1370.4	1407.1	1450.5	1486.6	1531.7	1547.2
30°	1130.7	1135.0	1159.1	1183.6	1222.1	1272.1	1313.5	1361.2	1412.7	1463.2	1498.3
32.5°	982.1	998.8	1014.0	1051.6	1085.4	1141.3	1201.9	1261.5	1325.7	1383.1	1437.5
35°	779.5	798.7	819.9	847.3	894.9	950.3	1009.5	1089.8	1177.4	1255.8	1320.3
37.5°	656.1	653.0	665.2	684.9	723.6	768.2	836.3	915.8	1018.8	1111.0	1201.9
40°	582.2	580.2	588.9	607.2	636.6	669.3	729.0	798.7	894.5	1007.0	1115.3
42.5°	531.4	532.5	537.3	550.3	570.3	597.3	642.0	701.3	789.0	895.0	1011.3
45°	469.6	473.0	478.2	484.6	496.1	518.2	543.2	585.6	654.9	743.4	857.9
47.5°	425.2	425.3	430.6	436.1	443.0	455.4	475.9	502.4	551.3	623.4	721.8
50°	401.2	397.9	401.8	406.0	413.3	422.0	435.5	460.4	493.1	551.4	633.7
52.5°	372.0	372.1	375.6	377.2	383.7	392.3	404.6	422.0	451.6	497.1	564.8
55°	330.1	332.4	334.4	337.2	343.1	349.3	358.9	370.5	393.6	427.7	477.8
57.5°	290.6	291.3	293.3	298.8	302.5	308.2	317.4	327.8	342.9	368.2	405.8
60°	263.6	263.6	267.5	269.9	274.8	280.5	287.8	297.8	311.3	332.0	362.3
62.5°	239.0	238.7	240.2	244.1	247.8	253.2	260.4	269.0	281.6	300.0	325.0
65°	203.0	202.1	205.0	205.9	209.8	215.1	220.8	230.0	240.1	253.5	275.7
67.5°	168.4	169.6	171.1	173.0	175.0	180.6	184.5	191.0	199.4	210.7	225.6
70°	149.1	149.1	149.1	150.6	153.4	156.4	160.2	165.5	173.7	183.3	196.8
72.5°	127.6	129.1	130.6	129.8	133.5	135.2	139.8	142.8	150.6	156.7	168.7
75°	100.1	100.1	100.1	102.5	104.0	105.4	108.3	111.1	115.0	122.7	128.9
77.5°	74.6	74.5	74.9	75.5	77.1	78.8	79.6	82.3	85.9	89.4	94.7
80°	57.8	58.7	59.2	60.1	60.1	61.1	61.5	64.9	67.4	69.7	73.1
82.5°	44.7	44.9	45.0	45.1	45.5	46.1	47.3	48.4	49.3	51.3	53.9
85°	26.0	25.5	25.5	26.5	26.0	26.0	27.0	27.9	27.9	28.4	29.8
87.5°	14.9	14.9	15.3	14.9	14.9	15.1	14.8	14.7	15.3	15.8	16.0
90°	24.3	24.3	24.3	24.3	24.3	23.6	22.1	23.6	24.3	25.1	24.3
92.5°	40.8	42.0	41.4	43.7	44.4	48.9	55.1	64.3	80.9	95.8	94.4
95°	84.0	83.2	85.5	91.3	100.9	117.2	148.1	193.0	252.7	288.8	255.7
97.5°	165.3	171.5	182.3	200.4	235.6	288.8	368.5	450.4	517.3	493.0	371.4
100°	263.7	277.0	298.4	330.1	391.2	480.4	581.4	672.7	688.2	582.0	400.8
102.5°	464.2	482.1	508.8	562.9	629.3	723.8	797.7	818.3	751.8	585.0	389.6
105°	830.4	840.7	872.3	918.0	963.7	988.1	978.5	895.2	742.0	545.9	367.7
107.5°	1060.6	1074.4	1080.7	1083.3	1077.5	1041.8	965.2	839.8	677.2	504.1	356.8
110°	1130.2	1131.0	1124.4	1110.3	1078.6	1018.2	924.0	792.0	636.6	484.1	354.4



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1129.1	1125.1	1112.6	1089.1	1045.1	975.8	875.0	748.5	608.3	471.1	355.0
115°	1092.7	1086.0	1066.9	1032.9	980.6	904.7	808.2	694.7	573.3	456.9	358.1
117.5°	1027.7	1022.1	1001.9	966.1	912.8	841.6	754.0	654.4	551.1	449.9	363.4
120°	985.8	978.5	957.1	922.5	870.9	803.8	725.8	634.3	539.3	445.7	366.9
122.5°	942.2	936.0	917.0	883.0	836.7	776.1	702.2	618.5	529.3	443.4	371.1
125°	886.4	880.4	862.0	834.1	791.3	736.0	671.2	595.3	515.0	439.1	377.2
127.5°	837.4	832.7	816.8	790.6	753.3	702.3	641.1	572.5	501.7	436.6	383.6
130°	809.7	803.8	789.1	764.0	727.9	679.3	621.1	557.7	492.9	435.5	388.3
132.5°	780.8	775.5	762.0	737.0	701.4	655.7	602.3	543.6	485.9	434.9	393.0
135°	734.6	731.6	718.4	694.1	662.3	621.1	572.5	523.9	476.0	433.9	398.6
137.5°	689.2	684.8	673.2	652.2	623.3	587.4	548.7	508.1	469.0	433.9	403.6
140°	658.0	653.6	642.4	623.3	599.7	567.3	533.5	498.0	465.0	433.2	406.0
142.5°	626.7	625.8	616.0	598.6	576.2	549.0	519.9	489.8	460.8	433.2	407.7
145°	586.4	584.3	576.9	564.4	546.7	525.4	502.5	478.2	455.3	431.8	409.6
147.5°	552.7	551.4	546.4	536.4	521.8	506.1	488.3	469.2	449.8	429.1	410.3
150°	532.7	532.0	527.5	518.7	507.7	494.4	478.9	462.7	445.0	427.3	409.6
152.5°	515.6	515.5	512.2	504.5	495.9	484.4	471.3	456.2	440.9	424.4	408.5
155°	492.9	494.4	491.4	486.3	478.2	470.0	459.0	447.2	433.2	419.2	406.7
157.5°	473.6	473.6	472.3	468.0	462.2	455.9	446.7	436.8	426.0	414.0	403.3
160°	461.2	461.2	460.5	456.9	451.7	446.5	438.4	430.3	420.8	410.4	401.5
162.5°	449.4	450.1	449.3	446.8	441.7	437.6	430.7	423.8	415.9	407.5	399.8
165°	432.5	433.2	433.2	430.3	427.3	424.4	419.2	414.1	408.2	401.5	396.4
167.5°	416.9	417.7	417.9	416.3	415.0	412.3	408.8	404.8	400.5	396.4	393.0
170°	407.5	408.9	409.6	407.5	406.7	405.2	402.3	400.1	396.4	393.4	391.2
172.5°	399.8	400.7	401.4	400.4	399.6	398.8	396.4	394.7	392.3	389.9	388.9
175°	389.7	391.2	392.0	391.2	391.2	390.5	389.7	389.0	386.8	386.1	385.3
177.5°	383.7	384.9	385.5	385.5	385.5	385.5	384.9	384.9	383.7	383.1	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1284.7	1281.6	1279.7	1272.7	1266.6	1260.5	1258.5	1259.2	1250.8	1242.7	1239.3
5°	1334.7	1325.1	1316.0	1303.0	1287.6	1270.7	1262.1	1255.3	1238.5	1220.2	1209.7
7.5°	1379.6	1365.8	1348.2	1323.7	1301.4	1274.9	1258.0	1243.1	1218.4	1192.7	1176.9
10°	1406.9	1388.1	1365.5	1335.7	1308.2	1276.0	1253.4	1230.8	1201.9	1171.1	1151.9
12.5°	1430.4	1405.0	1382.8	1344.5	1312.1	1271.8	1244.9	1213.1	1182.7	1146.1	1127.3
15°	1486.3	1439.6	1397.2	1354.0	1314.0	1257.7	1227.9	1185.1	1145.1	1099.9	1078.3
17.5°	1529.5	1477.1	1410.3	1355.3	1308.7	1246.4	1202.6	1151.3	1104.1	1052.3	1022.9
20°	1554.2	1493.9	1422.3	1356.9	1301.0	1229.8	1182.2	1129.7	1074.4	1016.2	984.4
22.5°	1568.8	1505.5	1434.6	1351.0	1285.6	1216.4	1156.4	1098.9	1042.8	980.1	946.7
25°	1573.4	1515.6	1440.6	1346.2	1266.4	1188.0	1115.8	1060.0	992.1	933.4	884.9
27.5°	1550.5	1509.1	1436.9	1337.2	1244.2	1152.4	1072.0	1008.8	937.2	873.5	824.6
30°	1522.4	1498.3	1428.0	1327.9	1226.4	1127.8	1039.2	967.6	896.4	831.9	781.8
32.5°	1478.8	1473.7	1411.9	1314.8	1207.6	1096.6	1005.0	932.6	853.7	790.3	742.6
35°	1393.5	1416.5	1377.5	1285.6	1172.1	1052.3	953.2	870.4	788.6	728.0	683.2
37.5°	1278.9	1336.2	1326.1	1242.8	1124.2	1004.0	894.6	808.0	730.1	668.9	625.0
40°	1200.0	1273.1	1283.7	1210.1	1090.3	966.7	850.6	764.6	688.5	632.7	588.4
42.5°	1115.3	1200.8	1229.8	1170.8	1053.3	927.4	811.4	722.2	647.0	592.7	553.5
45°	973.4	1086.5	1138.9	1105.2	991.6	862.7	743.4	652.9	584.6	533.6	503.3
47.5°	840.7	964.2	1034.7	1022.8	923.0	795.3	677.4	590.6	524.1	483.3	456.2
50°	746.8	873.7	958.9	962.8	873.7	747.2	628.9	547.1	486.0	448.0	425.8
52.5°	665.2	786.4	879.3	899.7	818.7	697.2	585.4	504.0	450.2	415.2	395.4
55°	558.6	661.1	764.0	801.6	736.6	621.1	517.7	446.0	395.5	371.5	354.1
57.5°	464.4	549.9	645.0	686.5	646.4	547.5	450.5	388.3	347.3	326.2	312.9
60°	414.7	482.1	566.8	616.3	581.7	493.7	409.0	349.8	316.1	297.4	284.8
62.5°	368.5	428.2	499.8	545.2	526.3	443.3	367.4	315.2	286.1	268.4	259.5
65°	304.1	351.3	406.6	448.5	435.9	372.9	310.9	266.1	243.0	229.0	221.8
67.5°	250.4	284.5	322.8	359.5	349.4	304.7	255.0	220.1	202.8	190.9	186.5
70°	216.5	242.5	276.6	306.0	297.8	261.3	221.8	192.0	177.1	166.9	162.6
72.5°	184.2	205.6	231.6	255.6	250.1	219.7	186.8	164.3	152.8	143.5	139.9
75°	139.0	155.4	171.3	187.2	185.7	162.1	142.9	125.5	116.4	109.2	107.7
77.5°	102.6	111.8	122.6	132.1	129.4	115.9	100.9	91.0	84.2	79.4	78.6
80°	78.4	83.7	91.4	98.1	94.8	89.0	77.0	69.7	64.9	60.1	58.2
82.5°	56.8	62.2	66.8	70.4	67.9	62.5	55.0	50.1	47.2	44.0	43.2
85°	29.8	32.7	34.7	35.6	34.7	31.3	27.9	26.0	23.6	22.1	21.7
87.5°	15.6	14.5	13.8	14.0	12.6	12.3	10.2	8.6	8.7	8.9	8.4
90°	19.9	14.7	11.0	8.9	7.4	5.9	2.9	0.8	2.9	5.9	7.4
92.5°	73.5	50.1	33.5	26.5	21.5	18.3	13.0	9.0	13.0	18.3	21.5
95°	170.2	106.1	72.2	54.5	42.7	36.1	28.7	25.8	28.7	36.1	42.7
97.5°	229.3	140.0	97.4	77.4	63.8	53.8	46.0	42.0	46.0	53.8	63.8
100°	241.7	151.7	112.7	92.1	77.4	65.6	58.9	56.7	58.9	65.6	77.4
102.5°	242.2	162.4	126.3	105.7	90.3	78.5	71.9	70.3	71.9	78.5	90.3
105°	246.1	180.5	145.9	125.3	109.1	98.0	92.8	89.9	92.8	98.0	109.1
107.5°	256.3	199.1	165.5	144.7	128.7	118.5	113.5	111.1	113.5	118.5	128.7
110°	264.5	211.4	179.1	157.7	142.2	132.6	128.2	125.3	128.2	132.6	142.2



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	273.3	223.3	192.0	170.0	155.1	146.2	141.2	138.2	141.2	146.2	155.1
115°	286.6	241.7	210.0	190.1	175.3	166.5	162.1	158.4	162.1	166.5	175.3
117.5°	300.8	258.6	229.3	208.7	194.5	186.7	182.3	179.4	182.3	186.7	194.5
120°	310.2	270.4	241.7	221.0	206.3	199.6	195.3	192.3	195.3	199.6	206.3
122.5°	318.5	281.6	254.7	233.4	218.7	211.4	207.1	204.7	207.1	211.4	218.7
125°	331.6	298.4	271.8	251.3	236.5	227.6	223.3	221.0	223.3	227.6	236.5
127.5°	343.7	314.1	288.2	267.0	252.9	243.2	237.0	234.0	237.0	243.2	252.9
130°	351.5	323.5	297.7	277.0	262.3	251.9	244.6	241.7	244.6	251.9	262.3
132.5°	359.1	331.7	307.1	286.4	271.2	260.2	252.3	248.7	252.3	260.2	271.2
135°	369.1	343.4	319.8	299.2	282.2	271.2	262.3	259.4	262.3	271.2	282.2
137.5°	376.8	352.8	329.5	310.4	293.5	281.7	272.9	269.4	272.9	281.7	293.5
140°	380.9	358.1	336.0	316.8	300.6	288.8	279.9	277.0	279.9	288.8	300.6
142.5°	384.5	362.2	340.7	322.7	307.1	295.3	287.1	284.6	287.1	295.3	307.1
145°	389.0	368.4	348.5	332.2	317.5	306.5	299.2	296.1	299.2	306.5	317.5
147.5°	391.5	373.4	354.7	340.3	328.0	317.8	310.8	308.6	310.8	317.8	328.0
150°	392.7	375.8	358.8	345.5	334.5	324.9	319.1	316.8	319.1	324.9	334.5
152.5°	393.3	378.1	363.0	350.8	340.4	332.0	326.1	325.1	326.1	332.0	340.4
155°	394.2	381.6	369.1	358.1	350.0	341.9	337.4	336.7	337.4	341.9	350.0
157.5°	394.2	384.2	373.5	364.3	357.8	350.7	347.1	346.5	347.1	350.7	357.8
160°	394.2	385.3	376.5	368.4	362.5	356.6	353.6	352.9	353.6	356.6	362.5
162.5°	393.6	386.0	378.2	371.9	366.6	361.9	358.9	359.4	358.9	361.9	366.6
165°	392.0	386.8	380.2	375.8	372.1	367.7	366.2	366.9	366.2	367.7	372.1
167.5°	391.0	386.6	381.8	379.0	376.4	373.5	372.2	373.2	372.2	373.5	376.4
170°	389.7	386.1	382.4	380.2	378.7	376.5	375.8	377.2	375.8	376.5	378.7
172.5°	388.0	385.5	383.0	381.4	380.5	378.2	378.7	379.6	378.7	378.2	380.5
175°	386.1	384.6	383.1	382.4	382.4	380.9	381.6	382.4	381.6	380.9	382.4
177.5°	384.9	383.7	383.1	383.1	383.1	381.9	382.6	383.7	382.6	381.9	383.1
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1235.4	1233.1	1225.0	1220.8	1213.8	1207.3	1203.1	1205.0	1206.5	1205.8	1204.6
5°	1200.0	1190.8	1176.9	1164.9	1156.2	1140.3	1133.6	1130.2	1127.4	1124.0	1120.6
7.5°	1157.8	1143.4	1123.4	1106.3	1090.1	1070.4	1059.1	1052.3	1045.5	1037.8	1031.1
10°	1127.8	1107.6	1086.5	1062.3	1043.1	1025.3	1009.5	998.9	989.3	980.1	973.4
12.5°	1096.3	1073.0	1046.8	1013.9	992.7	967.2	964.8	946.1	931.1	925.5	917.6
15°	1046.0	1013.3	980.1	941.1	924.3	901.2	886.7	872.3	859.3	850.2	847.8
17.5°	988.9	946.6	913.6	885.6	858.0	834.3	821.0	809.5	798.8	786.6	784.9
20°	945.5	908.9	872.8	848.3	819.9	795.8	779.5	767.9	758.7	751.6	745.3
22.5°	904.3	864.2	831.2	804.4	776.4	757.0	744.0	732.9	725.3	717.3	711.4
25°	838.2	806.9	770.8	740.5	717.4	704.9	694.3	684.7	679.9	674.6	667.9
27.5°	780.3	745.6	711.8	688.3	668.1	657.0	649.4	642.9	638.4	635.3	631.5
30°	739.5	704.4	678.0	654.9	638.0	627.0	622.2	618.3	613.0	611.1	609.2
32.5°	700.3	668.6	646.0	625.9	609.9	602.7	598.2	594.8	590.7	588.7	584.8
35°	644.7	618.3	596.2	585.0	572.1	565.8	562.5	557.6	553.8	551.9	551.4
37.5°	592.5	569.5	555.0	540.7	535.3	531.4	526.8	523.5	522.4	522.1	521.6
40°	558.6	539.9	526.9	515.3	512.9	507.1	503.3	500.4	500.4	500.9	500.4
42.5°	527.8	511.0	499.5	489.6	486.7	483.2	479.4	479.2	480.0	481.6	480.0
45°	481.2	469.1	460.9	456.1	450.8	447.4	447.0	448.5	448.9	449.4	450.8
47.5°	438.2	430.3	422.8	417.5	415.2	414.6	414.1	416.6	418.9	419.7	422.0
50°	412.8	403.7	397.5	394.1	392.1	391.2	392.1	395.0	396.9	399.4	400.8
52.5°	384.4	377.9	373.5	371.0	370.2	370.8	371.0	374.3	377.3	378.1	378.9
55°	345.0	340.2	339.2	334.9	336.8	336.3	338.7	340.6	343.6	346.4	346.9
57.5°	305.8	301.9	299.3	299.6	300.2	302.4	304.3	307.7	310.9	313.9	314.1
60°	279.6	277.6	276.2	276.2	277.1	280.0	282.5	285.8	287.8	289.6	291.1
62.5°	255.7	253.7	252.3	253.1	255.6	257.3	260.1	261.9	263.8	265.8	266.5
65°	217.9	217.0	218.5	219.4	219.9	222.3	225.6	227.1	229.0	230.0	233.4
67.5°	183.2	183.4	183.2	184.5	187.4	187.9	191.1	194.4	194.8	196.7	198.9
70°	159.8	160.7	161.6	162.6	165.0	166.0	168.4	169.8	171.7	173.2	174.7
72.5°	138.2	138.4	139.3	139.1	141.2	143.3	145.3	146.8	148.6	150.5	151.9
75°	106.3	106.3	107.3	107.7	110.2	112.6	112.1	113.1	115.0	116.9	117.9
77.5°	77.7	76.6	77.7	78.1	78.9	81.0	81.3	82.7	84.8	84.2	85.3
80°	59.2	57.8	59.2	59.7	59.7	62.1	62.1	63.1	64.5	63.1	64.5
82.5°	42.2	41.6	42.6	42.7	43.5	43.5	44.4	44.6	46.0	45.3	46.0
85°	21.2	20.7	21.2	20.7	21.2	21.7	21.7	21.2	21.2	22.1	20.7
87.5°	8.3	8.4	8.8	9.7	10.3	10.0	9.5	9.3	9.0	8.6	8.7
90°	8.9	11.0	14.7	19.9	24.3	25.1	24.3	23.6	22.1	23.6	24.3
92.5°	26.5	33.5	50.1	73.5	94.4	95.8	80.9	64.3	55.1	48.9	44.4
95°	54.5	72.2	106.1	170.2	255.7	288.8	252.7	193.0	148.1	117.2	100.9
97.5°	77.4	97.4	140.0	229.3	371.4	493.0	517.3	450.4	368.5	288.8	235.6
100°	92.1	112.7	151.7	241.7	400.8	582.0	688.2	672.7	581.4	480.4	391.2
102.5°	105.7	126.3	162.4	242.2	389.6	585.0	751.8	818.3	797.7	723.8	629.3
105°	125.3	145.9	180.5	246.1	367.7	545.9	742.0	895.2	978.5	988.1	963.7
107.5°	144.7	165.5	199.1	256.3	356.8	504.1	677.2	839.8	965.2	1041.8	1077.5
110°	157.7	179.1	211.4	264.5	354.4	484.1	636.6	792.0	924.0	1018.2	1078.6



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.0	192.0	223.3	273.3	355.0	471.1	608.3	748.5	875.0	975.8	1045.1
115°	190.1	210.0	241.7	286.6	358.1	456.9	573.3	694.7	808.2	904.7	980.6
117.5°	208.7	229.3	258.6	300.8	363.4	449.9	551.1	654.4	754.0	841.6	912.8
120°	221.0	241.7	270.4	310.2	366.9	445.7	539.3	634.3	725.8	803.8	870.9
122.5°	233.4	254.7	281.6	318.5	371.1	443.4	529.3	618.5	702.2	776.1	836.7
125°	251.3	271.8	298.4	331.6	377.2	439.1	515.0	595.3	671.2	736.0	791.3
127.5°	267.0	288.2	314.1	343.7	383.6	436.6	501.7	572.5	641.1	702.3	753.3
130°	277.0	297.7	323.5	351.5	388.3	435.5	492.9	557.7	621.1	679.3	727.9
132.5°	286.4	307.1	331.7	359.1	393.0	434.9	485.9	543.6	602.3	655.7	701.4
135°	299.2	319.8	343.4	369.1	398.6	433.9	476.0	523.9	572.5	621.1	662.3
137.5°	310.4	329.5	352.8	376.8	403.6	433.9	469.0	508.1	548.7	587.4	623.3
140°	316.8	336.0	358.1	380.9	406.0	433.2	465.0	498.0	533.5	567.3	599.7
142.5°	322.7	340.7	362.2	384.5	407.7	433.2	460.8	489.8	519.9	549.0	576.2
145°	332.2	348.5	368.4	389.0	409.6	431.8	455.3	478.2	502.5	525.4	546.7
147.5°	340.3	354.7	373.4	391.5	410.3	429.1	449.8	469.2	488.3	506.1	521.8
150°	345.5	358.8	375.8	392.7	409.6	427.3	445.0	462.7	478.9	494.4	507.7
152.5°	350.8	363.0	378.1	393.3	408.5	424.4	440.9	456.2	471.3	484.4	495.9
155°	358.1	369.1	381.6	394.2	406.7	419.2	433.2	447.2	459.0	470.0	478.2
157.5°	364.3	373.5	384.2	394.2	403.3	414.0	426.0	436.8	446.7	455.9	462.2
160°	368.4	376.5	385.3	394.2	401.5	410.4	420.8	430.3	438.4	446.5	451.7
162.5°	371.9	378.2	386.0	393.6	399.8	407.5	415.9	423.8	430.7	437.6	441.7
165°	375.8	380.2	386.8	392.0	396.4	401.5	408.2	414.1	419.2	424.4	427.3
167.5°	379.0	381.8	386.6	391.0	393.0	396.4	400.5	404.8	408.8	412.3	415.0
170°	380.2	382.4	386.1	389.7	391.2	393.4	396.4	400.1	402.3	405.2	406.7
172.5°	381.4	383.0	385.5	388.0	388.9	389.9	392.3	394.7	396.4	398.8	399.6
175°	382.4	383.1	384.6	386.1	385.3	386.1	386.8	389.0	389.7	390.5	391.2
177.5°	383.1	383.1	383.7	384.9	383.7	383.1	383.7	384.9	384.9	385.5	385.5
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1200.8	1200.0	1200.0	1196.6	1200.0	1200.0	1200.8	1204.6	1205.8	1206.5	1205.0
5°	1113.9	1112.4	1110.0	1112.4	1110.0	1112.4	1113.9	1120.6	1124.0	1127.4	1130.2
7.5°	1027.9	1022.2	1021.3	1015.6	1021.3	1022.2	1027.9	1031.1	1037.8	1045.5	1052.3
10°	965.2	961.3	960.8	951.7	960.8	961.3	965.2	973.4	980.1	989.3	998.9
12.5°	917.5	908.2	910.0	904.7	910.0	908.2	917.5	917.6	925.5	931.1	946.1
15°	834.8	834.8	832.8	824.7	832.8	834.8	834.8	847.8	850.2	859.3	872.3
17.5°	775.4	774.5	769.9	772.1	769.9	774.5	775.4	784.9	786.6	798.8	809.5
20°	740.0	737.2	731.3	731.3	731.3	737.2	740.0	745.3	751.6	758.7	767.9
22.5°	706.5	706.3	700.2	702.1	700.2	706.3	706.5	711.4	717.3	725.3	732.9
25°	667.3	663.5	660.6	662.0	660.6	663.5	667.3	667.9	674.6	679.9	684.7
27.5°	630.2	628.1	627.9	624.0	627.9	628.1	630.2	631.5	635.3	638.4	642.9
30°	608.7	603.9	604.8	602.4	604.8	603.9	608.7	609.2	611.1	613.0	618.3
32.5°	584.0	582.3	581.4	579.3	581.4	582.3	584.0	584.8	588.7	590.7	594.8
35°	550.4	550.9	548.6	549.5	548.6	550.9	550.4	551.4	551.9	553.8	557.6
37.5°	521.1	522.6	521.5	521.8	521.5	522.6	521.1	521.6	522.1	522.4	523.5
40°	501.8	501.8	501.8	503.3	501.8	501.8	501.8	500.4	500.9	500.4	500.4
42.5°	483.3	482.6	481.8	481.7	481.8	482.6	483.3	480.0	481.6	480.0	479.2
45°	451.8	453.3	453.7	451.3	453.7	453.3	451.8	450.8	449.4	448.9	448.5
47.5°	423.2	423.4	423.2	425.4	423.2	423.4	423.2	422.0	419.7	418.9	416.6
50°	403.2	402.3	403.2	402.3	403.2	402.3	403.2	400.8	399.4	396.9	395.0
52.5°	382.0	382.2	381.6	381.4	381.6	382.2	382.0	378.9	378.1	377.3	374.3
55°	348.8	349.8	349.3	349.3	349.3	349.8	348.8	346.9	346.4	343.6	340.6
57.5°	314.5	315.4	316.0	313.9	316.0	315.4	314.5	314.1	313.9	310.9	307.7
60°	290.6	293.0	292.6	291.6	292.6	293.0	290.6	291.1	289.6	287.8	285.8
62.5°	268.7	269.6	269.5	269.3	269.5	269.6	268.7	266.5	265.8	263.8	261.9
65°	234.8	235.7	234.3	235.7	234.3	235.7	234.8	233.4	230.0	229.0	227.1
67.5°	198.3	198.6	199.7	200.4	199.7	198.6	198.3	198.9	196.7	194.8	194.4
70°	175.6	175.1	176.5	178.0	176.5	175.1	175.6	174.7	173.2	171.7	169.8
72.5°	151.7	152.8	152.3	153.4	152.3	152.8	151.7	151.9	150.5	148.6	146.8
75°	116.9	118.4	117.9	119.3	117.9	118.4	116.9	117.9	116.9	115.0	113.1
77.5°	84.5	84.6	84.5	85.3	84.5	84.6	84.5	85.3	84.2	84.8	82.7
80°	64.5	63.5	62.6	64.5	62.6	63.5	64.5	64.5	63.1	64.5	63.1
82.5°	44.9	45.4	44.5	44.5	44.5	45.4	44.9	46.0	45.3	46.0	44.6
85°	20.7	20.2	19.2	19.2	19.2	20.2	20.7	20.7	22.1	21.2	21.2
87.5°	8.7	8.3	8.3	7.9	8.3	8.3	8.7	8.7	8.6	9.0	9.3
90°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	23.6	22.1	23.6
92.5°	43.7	41.4	42.0	40.8	42.0	41.4	43.7	44.4	48.9	55.1	64.3
95°	91.3	85.5	83.2	84.0	83.2	85.5	91.3	100.9	117.2	148.1	193.0
97.5°	200.4	182.3	171.5	165.3	171.5	182.3	200.4	235.6	288.8	368.5	450.4
100°	330.1	298.4	277.0	263.7	277.0	298.4	330.1	391.2	480.4	581.4	672.7
102.5°	562.9	508.8	482.1	464.2	482.1	508.8	562.9	629.3	723.8	797.7	818.3
105°	918.0	872.3	840.7	830.4	840.7	872.3	918.0	963.7	988.1	978.5	895.2
107.5°	1083.3	1080.7	1074.4	1060.6	1074.4	1080.7	1083.3	1077.5	1041.8	965.2	839.8
110°	1110.3	1124.4	1131.0	1130.2	1131.0	1124.4	1110.3	1078.6	1018.2	924.0	792.0



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1089.1	1112.6	1125.1	1129.1	1125.1	1112.6	1089.1	1045.1	975.8	875.0	748.5
115°	1032.9	1066.9	1086.0	1092.7	1086.0	1066.9	1032.9	980.6	904.7	808.2	694.7
117.5°	966.1	1001.9	1022.1	1027.7	1022.1	1001.9	966.1	912.8	841.6	754.0	654.4
120°	922.5	957.1	978.5	985.8	978.5	957.1	922.5	870.9	803.8	725.8	634.3
122.5°	883.0	917.0	936.0	942.2	936.0	917.0	883.0	836.7	776.1	702.2	618.5
125°	834.1	862.0	880.4	886.4	880.4	862.0	834.1	791.3	736.0	671.2	595.3
127.5°	790.6	816.8	832.7	837.4	832.7	816.8	790.6	753.3	702.3	641.1	572.5
130°	764.0	789.1	803.8	809.7	803.8	789.1	764.0	727.9	679.3	621.1	557.7
132.5°	737.0	762.0	775.5	780.8	775.5	762.0	737.0	701.4	655.7	602.3	543.6
135°	694.1	718.4	731.6	734.6	731.6	718.4	694.1	662.3	621.1	572.5	523.9
137.5°	652.2	673.2	684.8	689.2	684.8	673.2	652.2	623.3	587.4	548.7	508.1
140°	623.3	642.4	653.6	658.0	653.6	642.4	623.3	599.7	567.3	533.5	498.0
142.5°	598.6	616.0	625.8	626.7	625.8	616.0	598.6	576.2	549.0	519.9	489.8
145°	564.4	576.9	584.3	586.4	584.3	576.9	564.4	546.7	525.4	502.5	478.2
147.5°	536.4	546.4	551.4	552.7	551.4	546.4	536.4	521.8	506.1	488.3	469.2
150°	518.7	527.5	532.0	532.7	532.0	527.5	518.7	507.7	494.4	478.9	462.7
152.5°	504.5	512.2	515.5	515.6	515.5	512.2	504.5	495.9	484.4	471.3	456.2
155°	486.3	491.4	494.4	492.9	494.4	491.4	486.3	478.2	470.0	459.0	447.2
157.5°	468.0	472.3	473.6	473.6	473.6	472.3	468.0	462.2	455.9	446.7	436.8
160°	456.9	460.5	461.2	461.2	461.2	460.5	456.9	451.7	446.5	438.4	430.3
162.5°	446.8	449.3	450.1	449.4	450.1	449.3	446.8	441.7	437.6	430.7	423.8
165°	430.3	433.2	433.2	432.5	433.2	433.2	430.3	427.3	424.4	419.2	414.1
167.5°	416.3	417.9	417.7	416.9	417.7	417.9	416.3	415.0	412.3	408.8	404.8
170°	407.5	409.6	408.9	407.5	408.9	409.6	407.5	406.7	405.2	402.3	400.1
172.5°	400.4	401.4	400.7	399.8	400.7	401.4	400.4	399.6	398.8	396.4	394.7
175°	391.2	392.0	391.2	389.7	391.2	392.0	391.2	391.2	390.5	389.7	389.0
177.5°	385.5	385.5	384.9	383.7	384.9	385.5	385.5	385.5	385.5	384.9	384.9
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1203.1	1207.3	1213.8	1220.8	1225.0	1233.1	1235.4	1239.3	1242.7	1250.8	1259.2
5°	1133.6	1140.3	1156.2	1164.9	1176.9	1190.8	1200.0	1209.7	1220.2	1238.5	1255.3
7.5°	1059.1	1070.4	1090.1	1106.3	1123.4	1143.4	1157.8	1176.9	1192.7	1218.4	1243.1
10°	1009.5	1025.3	1043.1	1062.3	1086.5	1107.6	1127.8	1151.9	1171.1	1201.9	1230.8
12.5°	964.8	967.2	992.7	1013.9	1046.8	1073.0	1096.3	1127.3	1146.1	1182.7	1213.1
15°	886.7	901.2	924.3	941.1	980.1	1013.3	1046.0	1078.3	1099.9	1145.1	1185.1
17.5°	821.0	834.3	858.0	885.6	913.6	946.6	988.9	1022.9	1052.3	1104.1	1151.3
20°	779.5	795.8	819.9	848.3	872.8	908.9	945.5	984.4	1016.2	1074.4	1129.7
22.5°	744.0	757.0	776.4	804.4	831.2	864.2	904.3	946.7	980.1	1042.8	1098.9
25°	694.3	704.9	717.4	740.5	770.8	806.9	838.2	884.9	933.4	992.1	1060.0
27.5°	649.4	657.0	668.1	688.3	711.8	745.6	780.3	824.6	873.5	937.2	1008.8
30°	622.2	627.0	638.0	654.9	678.0	704.4	739.5	781.8	831.9	896.4	967.6
32.5°	598.2	602.7	609.9	625.9	646.0	668.6	700.3	742.6	790.3	853.7	932.6
35°	562.5	565.8	572.1	585.0	596.2	618.3	644.7	683.2	728.0	788.6	870.4
37.5°	526.8	531.4	535.3	540.7	555.0	569.5	592.5	625.0	668.9	730.1	808.0
40°	503.3	507.1	512.9	515.3	526.9	539.9	558.6	588.4	632.7	688.5	764.6
42.5°	479.4	483.2	486.7	489.6	499.5	511.0	527.8	553.5	592.7	647.0	722.2
45°	447.0	447.4	450.8	456.1	460.9	469.1	481.2	503.3	533.6	584.6	652.9
47.5°	414.1	414.6	415.2	417.5	422.8	430.3	438.2	456.2	483.3	524.1	590.6
50°	392.1	391.2	392.1	394.1	397.5	403.7	412.8	425.8	448.0	486.0	547.1
52.5°	371.0	370.8	370.2	371.0	373.5	377.9	384.4	395.4	415.2	450.2	504.0
55°	338.7	336.3	336.8	334.9	339.2	340.2	345.0	354.1	371.5	395.5	446.0
57.5°	304.3	302.4	300.2	299.6	299.3	301.9	305.8	312.9	326.2	347.3	388.3
60°	282.5	280.0	277.1	276.2	276.2	277.6	279.6	284.8	297.4	316.1	349.8
62.5°	260.1	257.3	255.6	253.1	252.3	253.7	255.7	259.5	268.4	286.1	315.2
65°	225.6	222.3	219.9	219.4	218.5	217.0	217.9	221.8	229.0	243.0	266.1
67.5°	191.1	187.9	187.4	184.5	183.2	183.4	183.2	186.5	190.9	202.8	220.1
70°	168.4	166.0	165.0	162.6	161.6	160.7	159.8	162.6	166.9	177.1	192.0
72.5°	145.3	143.3	141.2	139.1	139.3	138.4	138.2	139.9	143.5	152.8	164.3
75°	112.1	112.6	110.2	107.7	107.3	106.3	106.3	107.7	109.2	116.4	125.5
77.5°	81.3	81.0	78.9	78.1	77.7	76.6	77.7	78.6	79.4	84.2	91.0
80°	62.1	62.1	59.7	59.7	59.2	57.8	59.2	58.2	60.1	64.9	69.7
82.5°	44.4	43.5	43.5	42.7	42.6	41.6	42.2	43.2	44.0	47.2	50.1
85°	21.7	21.7	21.2	20.7	21.2	20.7	21.2	21.7	22.1	23.6	26.0
87.5°	9.5	10.0	10.3	9.7	8.8	8.4	8.3	8.4	8.9	8.7	8.6
90°	24.3	25.1	24.3	19.9	14.7	11.0	8.9	7.4	5.9	2.9	0.8
92.5°	80.9	95.8	94.4	73.5	50.1	33.5	26.5	21.5	18.3	13.0	9.0
95°	252.7	288.8	255.7	170.2	106.1	72.2	54.5	42.7	36.1	28.7	25.8
97.5°	517.3	493.0	371.4	229.3	140.0	97.4	77.4	63.8	53.8	46.0	42.0
100°	688.2	582.0	400.8	241.7	151.7	112.7	92.1	77.4	65.6	58.9	56.7
102.5°	751.8	585.0	389.6	242.2	162.4	126.3	105.7	90.3	78.5	71.9	70.3
105°	742.0	545.9	367.7	246.1	180.5	145.9	125.3	109.1	98.0	92.8	89.9
107.5°	677.2	504.1	356.8	256.3	199.1	165.5	144.7	128.7	118.5	113.5	111.1
110°	636.6	484.1	354.4	264.5	211.4	179.1	157.7	142.2	132.6	128.2	125.3



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	608.3	471.1	355.0	273.3	223.3	192.0	170.0	155.1	146.2	141.2	138.2
115°	573.3	456.9	358.1	286.6	241.7	210.0	190.1	175.3	166.5	162.1	158.4
117.5°	551.1	449.9	363.4	300.8	258.6	229.3	208.7	194.5	186.7	182.3	179.4
120°	539.3	445.7	366.9	310.2	270.4	241.7	221.0	206.3	199.6	195.3	192.3
122.5°	529.3	443.4	371.1	318.5	281.6	254.7	233.4	218.7	211.4	207.1	204.7
125°	515.0	439.1	377.2	331.6	298.4	271.8	251.3	236.5	227.6	223.3	221.0
127.5°	501.7	436.6	383.6	343.7	314.1	288.2	267.0	252.9	243.2	237.0	234.0
130°	492.9	435.5	388.3	351.5	323.5	297.7	277.0	262.3	251.9	244.6	241.7
132.5°	485.9	434.9	393.0	359.1	331.7	307.1	286.4	271.2	260.2	252.3	248.7
135°	476.0	433.9	398.6	369.1	343.4	319.8	299.2	282.2	271.2	262.3	259.4
137.5°	469.0	433.9	403.6	376.8	352.8	329.5	310.4	293.5	281.7	272.9	269.4
140°	465.0	433.2	406.0	380.9	358.1	336.0	316.8	300.6	288.8	279.9	277.0
142.5°	460.8	433.2	407.7	384.5	362.2	340.7	322.7	307.1	295.3	287.1	284.6
145°	455.3	431.8	409.6	389.0	368.4	348.5	332.2	317.5	306.5	299.2	296.1
147.5°	449.8	429.1	410.3	391.5	373.4	354.7	340.3	328.0	317.8	310.8	308.6
150°	445.0	427.3	409.6	392.7	375.8	358.8	345.5	334.5	324.9	319.1	316.8
152.5°	440.9	424.4	408.5	393.3	378.1	363.0	350.8	340.4	332.0	326.1	325.1
155°	433.2	419.2	406.7	394.2	381.6	369.1	358.1	350.0	341.9	337.4	336.7
157.5°	426.0	414.0	403.3	394.2	384.2	373.5	364.3	357.8	350.7	347.1	346.5
160°	420.8	410.4	401.5	394.2	385.3	376.5	368.4	362.5	356.6	353.6	352.9
162.5°	415.9	407.5	399.8	393.6	386.0	378.2	371.9	366.6	361.9	358.9	359.4
165°	408.2	401.5	396.4	392.0	386.8	380.2	375.8	372.1	367.7	366.2	366.9
167.5°	400.5	396.4	393.0	391.0	386.6	381.8	379.0	376.4	373.5	372.2	373.2
170°	396.4	393.4	391.2	389.7	386.1	382.4	380.2	378.7	376.5	375.8	377.2
172.5°	392.3	389.9	388.9	388.0	385.5	383.0	381.4	380.5	378.2	378.7	379.6
175°	386.8	386.1	385.3	386.1	384.6	383.1	382.4	382.4	380.9	381.6	382.4
177.5°	383.7	383.1	383.7	384.9	383.7	383.1	383.1	383.1	381.9	382.6	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1258.5	1260.5	1266.6	1272.7	1279.7	1281.6	1284.7	1282.0	1281.2	1288.5	1293.9
5°	1262.1	1270.7	1287.6	1303.0	1316.0	1325.1	1334.7	1338.6	1345.8	1355.8	1368.4
7.5°	1258.0	1274.9	1301.4	1323.7	1348.2	1365.8	1379.6	1391.3	1405.5	1424.7	1445.6
10°	1253.4	1276.0	1308.2	1335.7	1365.5	1388.1	1406.9	1425.1	1446.3	1472.8	1500.2
12.5°	1244.9	1271.8	1312.1	1344.5	1382.8	1405.0	1430.4	1469.8	1492.5	1529.4	1568.0
15°	1227.9	1257.7	1314.0	1354.0	1397.2	1439.6	1486.3	1523.8	1561.3	1583.0	1637.4
17.5°	1202.6	1246.4	1308.7	1355.3	1410.3	1477.1	1529.5	1572.0	1615.3	1650.5	1677.7
20°	1182.2	1229.8	1301.0	1356.9	1422.3	1493.9	1554.2	1597.4	1634.9	1664.3	1681.1
22.5°	1156.4	1216.4	1285.6	1351.0	1434.6	1505.5	1568.8	1602.8	1634.2	1648.5	1655.0
25°	1115.8	1188.0	1266.4	1346.2	1440.6	1515.6	1573.4	1594.0	1603.2	1589.2	1566.1
27.5°	1072.0	1152.4	1244.2	1337.2	1436.9	1509.1	1550.5	1547.2	1531.7	1486.6	1450.5
30°	1039.2	1127.8	1226.4	1327.9	1428.0	1498.3	1522.4	1498.3	1463.2	1412.7	1361.2
32.5°	1005.0	1096.6	1207.6	1314.8	1411.9	1473.7	1478.8	1437.5	1383.1	1325.7	1261.5
35°	953.2	1052.3	1172.1	1285.6	1377.5	1416.5	1393.5	1320.3	1255.8	1177.4	1089.8
37.5°	894.6	1004.0	1124.2	1242.8	1326.1	1336.2	1278.9	1201.9	1111.0	1018.8	915.8
40°	850.6	966.7	1090.3	1210.1	1283.7	1273.1	1200.0	1115.3	1007.0	894.5	798.7
42.5°	811.4	927.4	1053.3	1170.8	1229.8	1200.8	1115.3	1011.3	895.0	789.0	701.3
45°	743.4	862.7	991.6	1105.2	1138.9	1086.5	973.4	857.9	743.4	654.9	585.6
47.5°	677.4	795.3	923.0	1022.8	1034.7	964.2	840.7	721.8	623.4	551.3	502.4
50°	628.9	747.2	873.7	962.8	958.9	873.7	746.8	633.7	551.4	493.1	460.4
52.5°	585.4	697.2	818.7	899.7	879.3	786.4	665.2	564.8	497.1	451.6	422.0
55°	517.7	621.1	736.6	801.6	764.0	661.1	558.6	477.8	427.7	393.6	370.5
57.5°	450.5	547.5	646.4	686.5	645.0	549.9	464.4	405.8	368.2	342.9	327.8
60°	409.0	493.7	581.7	616.3	566.8	482.1	414.7	362.3	332.0	311.3	297.8
62.5°	367.4	443.3	526.3	545.2	499.8	428.2	368.5	325.0	300.0	281.6	269.0
65°	310.9	372.9	435.9	448.5	406.6	351.3	304.1	275.7	253.5	240.1	230.0
67.5°	255.0	304.7	349.4	359.5	322.8	284.5	250.4	225.6	210.7	199.4	191.0
70°	221.8	261.3	297.8	306.0	276.6	242.5	216.5	196.8	183.3	173.7	165.5
72.5°	186.8	219.7	250.1	255.6	231.6	205.6	184.2	168.7	156.7	150.6	142.8
75°	142.9	162.1	185.7	187.2	171.3	155.4	139.0	128.9	122.7	115.0	111.1
77.5°	100.9	115.9	129.4	132.1	122.6	111.8	102.6	94.7	89.4	85.9	82.3
80°	77.0	89.0	94.8	98.1	91.4	83.7	78.4	73.1	69.7	67.4	64.9
82.5°	55.0	62.5	67.9	70.4	66.8	62.2	56.8	53.9	51.3	49.3	48.4
85°	27.9	31.3	34.7	35.6	34.7	32.7	29.8	29.8	28.4	27.9	27.9
87.5°	10.2	12.3	12.6	14.0	13.8	14.5	15.6	16.0	15.8	15.3	14.7
90°	2.9	5.9	7.4	8.9	11.0	14.7	19.9	24.3	25.1	24.3	23.6
92.5°	13.0	18.3	21.5	26.5	33.5	50.1	73.5	94.4	95.8	80.9	64.3
95°	28.7	36.1	42.7	54.5	72.2	106.1	170.2	255.7	288.8	252.7	193.0
97.5°	46.0	53.8	63.8	77.4	97.4	140.0	229.3	371.4	493.0	517.3	450.4
100°	58.9	65.6	77.4	92.1	112.7	151.7	241.7	400.8	582.0	688.2	672.7
102.5°	71.9	78.5	90.3	105.7	126.3	162.4	242.2	389.6	585.0	751.8	818.3
105°	92.8	98.0	109.1	125.3	145.9	180.5	246.1	367.7	545.9	742.0	895.2
107.5°	113.5	118.5	128.7	144.7	165.5	199.1	256.3	356.8	504.1	677.2	839.8
110°	128.2	132.6	142.2	157.7	179.1	211.4	264.5	354.4	484.1	636.6	792.0



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	141.2	146.2	155.1	170.0	192.0	223.3	273.3	355.0	471.1	608.3	748.5
115°	162.1	166.5	175.3	190.1	210.0	241.7	286.6	358.1	456.9	573.3	694.7
117.5°	182.3	186.7	194.5	208.7	229.3	258.6	300.8	363.4	449.9	551.1	654.4
120°	195.3	199.6	206.3	221.0	241.7	270.4	310.2	366.9	445.7	539.3	634.3
122.5°	207.1	211.4	218.7	233.4	254.7	281.6	318.5	371.1	443.4	529.3	618.5
125°	223.3	227.6	236.5	251.3	271.8	298.4	331.6	377.2	439.1	515.0	595.3
127.5°	237.0	243.2	252.9	267.0	288.2	314.1	343.7	383.6	436.6	501.7	572.5
130°	244.6	251.9	262.3	277.0	297.7	323.5	351.5	388.3	435.5	492.9	557.7
132.5°	252.3	260.2	271.2	286.4	307.1	331.7	359.1	393.0	434.9	485.9	543.6
135°	262.3	271.2	282.2	299.2	319.8	343.4	369.1	398.6	433.9	476.0	523.9
137.5°	272.9	281.7	293.5	310.4	329.5	352.8	376.8	403.6	433.9	469.0	508.1
140°	279.9	288.8	300.6	316.8	336.0	358.1	380.9	406.0	433.2	465.0	498.0
142.5°	287.1	295.3	307.1	322.7	340.7	362.2	384.5	407.7	433.2	460.8	489.8
145°	299.2	306.5	317.5	332.2	348.5	368.4	389.0	409.6	431.8	455.3	478.2
147.5°	310.8	317.8	328.0	340.3	354.7	373.4	391.5	410.3	429.1	449.8	469.2
150°	319.1	324.9	334.5	345.5	358.8	375.8	392.7	409.6	427.3	445.0	462.7
152.5°	326.1	332.0	340.4	350.8	363.0	378.1	393.3	408.5	424.4	440.9	456.2
155°	337.4	341.9	350.0	358.1	369.1	381.6	394.2	406.7	419.2	433.2	447.2
157.5°	347.1	350.7	357.8	364.3	373.5	384.2	394.2	403.3	414.0	426.0	436.8
160°	353.6	356.6	362.5	368.4	376.5	385.3	394.2	401.5	410.4	420.8	430.3
162.5°	358.9	361.9	366.6	371.9	378.2	386.0	393.6	399.8	407.5	415.9	423.8
165°	366.2	367.7	372.1	375.8	380.2	386.8	392.0	396.4	401.5	408.2	414.1
167.5°	372.2	373.5	376.4	379.0	381.8	386.6	391.0	393.0	396.4	400.5	404.8
170°	375.8	376.5	378.7	380.2	382.4	386.1	389.7	391.2	393.4	396.4	400.1
172.5°	378.7	378.2	380.5	381.4	383.0	385.5	388.0	388.9	389.9	392.3	394.7
175°	381.6	380.9	382.4	382.4	383.1	384.6	386.1	385.3	386.1	386.8	389.0
177.5°	382.6	381.9	383.1	383.1	383.1	383.7	384.9	383.7	383.1	383.7	384.9
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1



TEST NUMBER: P331350-830
 CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1298.5	1303.9	1303.9	1304.7	1310.9	1310.0	1309.7
5°	1381.9	1390.1	1391.0	1399.7	1405.4	1403.5	1398.3
7.5°	1460.5	1475.7	1487.2	1493.6	1501.3	1506.0	1503.9
10°	1522.9	1545.0	1558.5	1567.6	1578.7	1586.9	1583.9
12.5°	1579.4	1605.8	1624.3	1639.9	1641.4	1651.9	1644.7
15°	1667.6	1695.5	1698.5	1710.1	1719.2	1718.2	1718.6
17.5°	1696.9	1705.8	1707.6	1707.9	1708.0	1704.6	1697.3
20°	1686.4	1683.1	1674.9	1668.7	1657.6	1656.1	1646.5
22.5°	1637.2	1626.5	1606.0	1592.4	1575.2	1570.7	1568.0
25°	1540.2	1516.6	1483.8	1452.6	1444.0	1427.1	1431.9
27.5°	1407.1	1370.4	1334.9	1309.5	1286.5	1261.3	1268.5
30°	1313.5	1272.1	1222.1	1183.6	1159.1	1135.0	1130.7
32.5°	1201.9	1141.3	1085.4	1051.6	1014.0	998.8	982.1
35°	1009.5	950.3	894.9	847.3	819.9	798.7	779.5
37.5°	836.3	768.2	723.6	684.9	665.2	653.0	656.1
40°	729.0	669.3	636.6	607.2	588.9	580.2	582.2
42.5°	642.0	597.3	570.3	550.3	537.3	532.5	531.4
45°	543.2	518.2	496.1	484.6	478.2	473.0	469.6
47.5°	475.9	455.4	443.0	436.1	430.6	425.3	425.2
50°	435.5	422.0	413.3	406.0	401.8	397.9	401.2
52.5°	404.6	392.3	383.7	377.2	375.6	372.1	372.0
55°	358.9	349.3	343.1	337.2	334.4	332.4	330.1
57.5°	317.4	308.2	302.5	298.8	293.3	291.3	290.6
60°	287.8	280.5	274.8	269.9	267.5	263.6	263.6
62.5°	260.4	253.2	247.8	244.1	240.2	238.7	239.0
65°	220.8	215.1	209.8	205.9	205.0	202.1	203.0
67.5°	184.5	180.6	175.0	173.0	171.1	169.6	168.4
70°	160.2	156.4	153.4	150.6	149.1	149.1	149.1
72.5°	139.8	135.2	133.5	129.8	130.6	129.1	127.6
75°	108.3	105.4	104.0	102.5	100.1	100.1	100.1
77.5°	79.6	78.8	77.1	75.5	74.9	74.5	74.6
80°	61.5	61.1	60.1	60.1	59.2	58.7	57.8
82.5°	47.3	46.1	45.5	45.1	45.0	44.9	44.7
85°	27.0	26.0	26.0	26.5	25.5	25.5	26.0
87.5°	14.8	15.1	14.9	14.9	15.3	14.9	14.9
90°	22.1	23.6	24.3	24.3	24.3	24.3	24.3
92.5°	55.1	48.9	44.4	43.7	41.4	42.0	40.8
95°	148.1	117.2	100.9	91.3	85.5	83.2	84.0
97.5°	368.5	288.8	235.6	200.4	182.3	171.5	165.3
100°	581.4	480.4	391.2	330.1	298.4	277.0	263.7
102.5°	797.7	723.8	629.3	562.9	508.8	482.1	464.2
105°	978.5	988.1	963.7	918.0	872.3	840.7	830.4
107.5°	965.2	1041.8	1077.5	1083.3	1080.7	1074.4	1060.6
110°	924.0	1018.2	1078.6	1110.3	1124.4	1131.0	1130.2



TEST NUMBER: P331350-830

CATALOG NUMBER: SA2XXDIP-C675D725U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	875.0	975.8	1045.1	1089.1	1112.6	1125.1	1129.1
115°	808.2	904.7	980.6	1032.9	1066.9	1086.0	1092.7
117.5°	754.0	841.6	912.8	966.1	1001.9	1022.1	1027.7
120°	725.8	803.8	870.9	922.5	957.1	978.5	985.8
122.5°	702.2	776.1	836.7	883.0	917.0	936.0	942.2
125°	671.2	736.0	791.3	834.1	862.0	880.4	886.4
127.5°	641.1	702.3	753.3	790.6	816.8	832.7	837.4
130°	621.1	679.3	727.9	764.0	789.1	803.8	809.7
132.5°	602.3	655.7	701.4	737.0	762.0	775.5	780.8
135°	572.5	621.1	662.3	694.1	718.4	731.6	734.6
137.5°	548.7	587.4	623.3	652.2	673.2	684.8	689.2
140°	533.5	567.3	599.7	623.3	642.4	653.6	658.0
142.5°	519.9	549.0	576.2	598.6	616.0	625.8	626.7
145°	502.5	525.4	546.7	564.4	576.9	584.3	586.4
147.5°	488.3	506.1	521.8	536.4	546.4	551.4	552.7
150°	478.9	494.4	507.7	518.7	527.5	532.0	532.7
152.5°	471.3	484.4	495.9	504.5	512.2	515.5	515.6
155°	459.0	470.0	478.2	486.3	491.4	494.4	492.9
157.5°	446.7	455.9	462.2	468.0	472.3	473.6	473.6
160°	438.4	446.5	451.7	456.9	460.5	461.2	461.2
162.5°	430.7	437.6	441.7	446.8	449.3	450.1	449.4
165°	419.2	424.4	427.3	430.3	433.2	433.2	432.5
167.5°	408.8	412.3	415.0	416.3	417.9	417.7	416.9
170°	402.3	405.2	406.7	407.5	409.6	408.9	407.5
172.5°	396.4	398.8	399.6	400.4	401.4	400.7	399.8
175°	389.7	390.5	391.2	391.2	392.0	391.2	389.7
177.5°	384.9	385.5	385.5	385.5	385.5	384.9	383.7
180°	383.1	383.1	383.1	383.1	383.1	383.1	383.1

(END OF REPORT)