

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: P331331-940

Luminaire Tested: **SA2XXDIP-C675D330U940-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331331-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C675D330U940-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

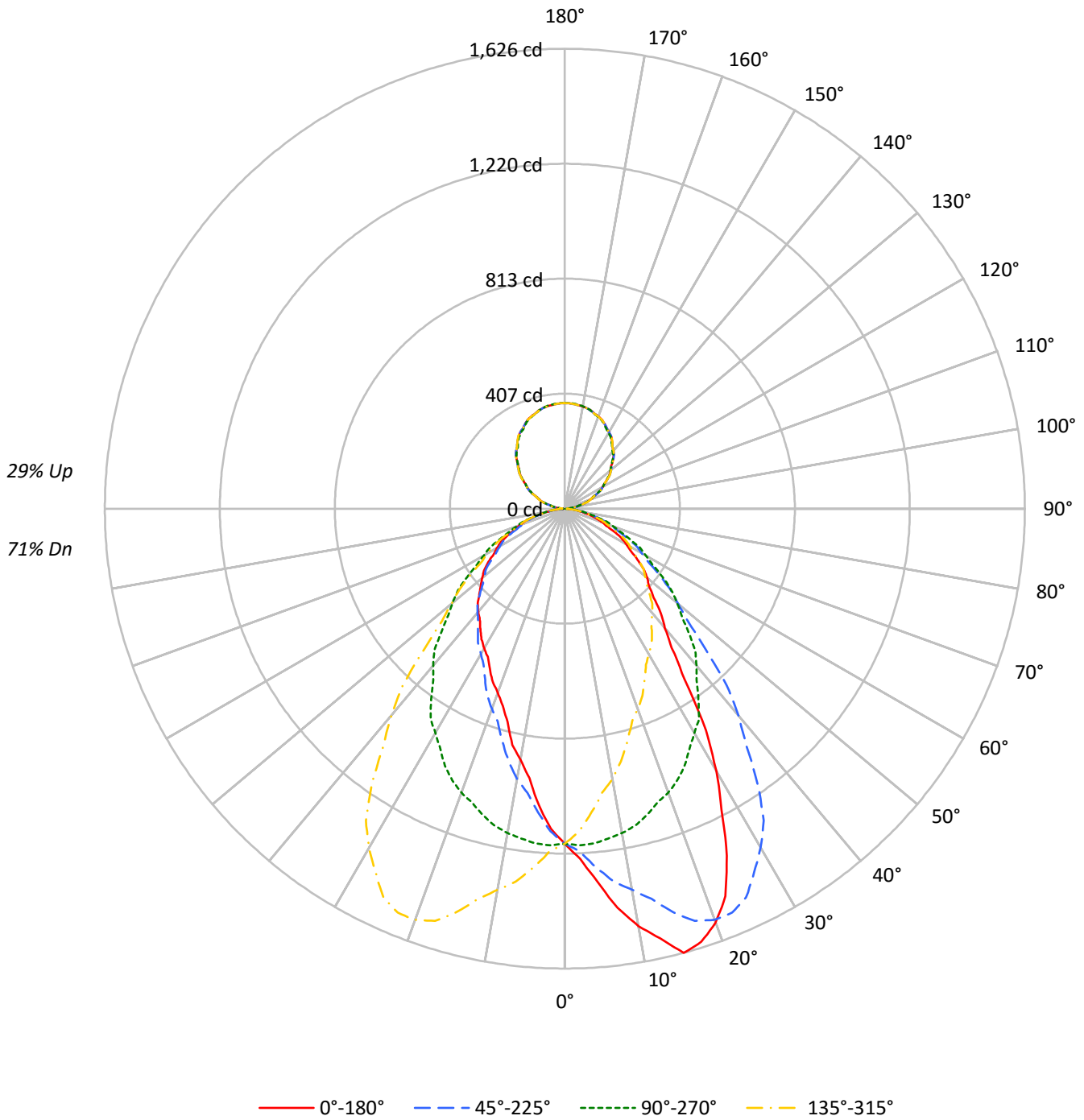
Lumens per Lamp: N/A
Luminaire Lumens: 3658.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 35
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71				
1	103	99	95	92	98	94	91	88	85	82	80	76	74	72	68	67	65	62				
2	95	87	81	76	89	83	78	73	75	71	67	68	64	62	61	58	56	53				
3	87	77	70	64	82	74	67	62	67	62	57	60	56	53	55	51	49	45				
4	80	69	61	55	75	66	59	53	60	54	50	54	50	46	49	46	43	40				
5	74	62	54	48	70	59	52	46	54	48	43	49	44	40	45	41	38	35				
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	33	31				
7	63	51	43	37	60	49	42	36	45	39	34	41	36	32	38	33	30	28				
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	30	27	25				
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	23				
10	52	40	32	27	49	38	31	27	35	29	25	32	27	24	30	26	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19125	19125	19125	19125
5°	21441	19248	17057	19248
10°	24568	19090	14762	19090
15°	27178	18740	13041	18740
20°	26764	18364	11888	18364
25°	24134	17865	11158	17865
30°	19943	17066	10625	17066
35°	14534	16232	10247	16232
40°	11609	15247	10037	15247
45°	10145	14104	9750	14104
50°	9535	12999	9560	12999
55°	8791	11879	9303	11879
60°	8054	10685	8909	10685
65°	7339	9616	8520	9616
70°	6661	8573	7950	8573
75°	5908	7411	7043	7411
80°	5086	6137	5672	6137
85°	4557	4557	3372	4557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	3.1
10°-20°	327.9	9.0
20°-30°	475.9	13.0
30°-40°	502.2	13.7
40°-50°	444.7	12.2
50°-60°	354.9	9.7
60°-70°	241.2	6.6
70°-80°	123.7	3.4
80°-90°	31.3	0.9
90°-100°	23.7	0.6
100°-110°	73.5	2.0
110°-120°	125.6	3.4
120°-130°	165.1	4.5
130°-140°	185.4	5.1
140°-150°	181.8	5.0
150°-160°	152.4	4.2
160°-170°	101.1	2.8
170°-180°	35.3	1.0
0°-30°	916.7	25.1
0°-40°	1418.9	38.8
0°-60°	2218.4	60.6
0°-90°	2614.6	71.5
90°-120°	222.7	6.1
90°-150°	755.0	20.6
90°-180°	1044.0	28.5
0°-180°	3658.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1184	1184	1184	1184	1184	
5°	1323	1188	1052	1188	1323	132
15°	1626	1121	780	1121	1626	449
25°	1355	1003	626	1003	1355	612
35°	737	824	520	824	737	480
45°	444	618	427	618	444	349
55°	312	422	330	422	312	280
65°	192	252	223	252	192	191
75°	95	119	113	119	95	101
85°	25	25	18	25	25	27
90°	11	0	11	0	11	6
95°	20	16	20	16	20	22
105°	70	68	70	68	70	74
115°	126	126	126	126	126	124
125°	184	183	184	183	184	164
135°	240	237	240	237	240	185
145°	291	288	291	288	291	182
155°	332	329	332	329	332	153
165°	359	358	359	358	359	101
175°	371	373	371	373	371	35
180°	373	373	373	373	373	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1239.0	1239.4	1240.2	1234.3	1233.6	1233.6	1228.5	1224.1	1219.1	1212.1	1212.8
5°	1322.9	1327.8	1329.6	1324.2	1316.0	1315.1	1307.3	1294.6	1282.7	1273.2	1266.4
7.5°	1422.8	1424.8	1420.3	1413.1	1407.0	1396.2	1381.7	1367.6	1347.8	1329.7	1316.3
10°	1498.5	1501.3	1493.5	1483.1	1474.4	1461.7	1440.7	1419.3	1393.4	1368.3	1348.3
12.5°	1556.0	1562.8	1552.9	1551.5	1536.7	1519.2	1494.2	1483.5	1446.9	1412.0	1390.5
15°	1625.9	1625.5	1626.5	1617.8	1606.9	1604.1	1577.7	1549.1	1497.6	1477.1	1441.6
17.5°	1605.8	1612.7	1615.9	1615.8	1615.5	1613.8	1605.3	1587.2	1561.5	1528.2	1487.2
20°	1557.7	1566.8	1568.2	1578.7	1584.6	1592.3	1595.4	1590.5	1574.6	1546.8	1511.3
22.5°	1483.5	1485.9	1490.2	1506.5	1519.4	1538.7	1548.9	1565.8	1559.6	1546.0	1516.4
25°	1354.7	1350.1	1366.1	1374.2	1403.8	1434.8	1457.1	1481.7	1503.5	1516.7	1508.1
27.5°	1200.1	1193.3	1217.1	1238.9	1262.9	1296.5	1331.2	1372.3	1406.4	1449.1	1463.7
30°	1069.7	1073.8	1096.6	1119.8	1156.2	1203.5	1242.7	1287.8	1336.5	1384.3	1417.5
32.5°	929.2	944.9	959.3	994.9	1026.9	1079.8	1137.1	1193.5	1254.2	1308.5	1359.9
35°	737.4	755.6	775.7	801.6	846.7	899.0	955.0	1031.0	1113.9	1188.1	1249.1
37.5°	620.7	617.8	629.3	648.0	684.6	726.7	791.2	866.4	963.9	1051.1	1137.1
40°	550.8	548.9	557.1	574.4	602.3	633.2	689.6	755.6	846.2	952.7	1055.2
42.5°	502.7	503.8	508.4	520.6	539.6	565.1	607.3	663.5	746.5	846.8	956.8
45°	444.3	447.5	452.5	458.4	469.3	490.3	513.9	554.0	619.6	703.3	811.6
47.5°	402.3	402.3	407.4	412.6	419.1	430.9	450.2	475.3	521.6	589.8	682.9
50°	379.6	376.5	380.1	384.1	391.0	399.2	412.0	435.6	466.5	521.7	599.5
52.5°	352.0	352.0	355.3	356.9	363.0	371.1	382.8	399.2	427.2	470.3	534.3
55°	312.3	314.5	316.4	319.1	324.6	330.5	339.6	350.5	372.4	404.7	452.0
57.5°	274.9	275.6	277.5	282.7	286.1	291.6	300.2	310.1	324.4	348.3	383.9
60°	249.4	249.4	253.1	255.4	259.9	265.4	272.2	281.8	294.5	314.1	342.8
62.5°	226.1	225.8	227.2	231.0	234.4	239.5	246.4	254.5	266.4	283.8	307.5
65°	192.1	191.2	193.9	194.8	198.5	203.5	208.9	217.6	227.1	239.9	260.8
67.5°	159.3	160.4	161.8	163.6	165.6	170.9	174.5	180.7	188.7	199.3	213.5
70°	141.1	141.1	141.1	142.5	145.2	147.9	151.6	156.6	164.3	173.4	186.2
72.5°	120.7	122.2	123.6	122.8	126.3	127.9	132.2	135.1	142.5	148.3	159.6
75°	94.7	94.7	94.7	96.9	98.4	99.7	102.5	105.1	108.8	116.1	122.0
77.5°	70.6	70.4	70.9	71.4	72.9	74.5	75.3	77.8	81.2	84.5	89.6
80°	54.7	55.6	56.0	56.9	56.9	57.8	58.2	61.4	63.8	66.0	69.2
82.5°	42.3	42.4	42.5	42.7	43.1	43.6	44.8	45.8	46.6	48.5	51.0
85°	24.6	24.2	24.2	25.1	24.6	24.6	25.5	26.4	26.4	26.8	28.2
87.5°	11.6	11.6	11.9	11.6	11.6	11.9	11.9	11.6	12.0	12.4	12.5
90°	10.7	10.6	10.6	10.5	10.4	10.4	10.6	10.8	10.9	11.1	9.5
92.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.1	10.1	10.1	10.0	9.6
95°	19.5	19.7	19.8	20.0	20.1	20.2	20.2	20.2	20.2	20.2	20.1
97.5°	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.6
100°	43.2	43.2	43.3	43.3	43.4	43.5	43.5	43.5	43.5	43.5	43.2
102.5°	53.8	53.9	53.9	53.9	54.0	54.0	53.9	53.9	53.9	53.8	53.5
105°	69.9	69.9	69.9	69.9	69.9	69.9	69.7	69.6	69.5	69.3	69.2
107.5°	85.2	85.5	85.9	86.1	86.5	86.6	86.6	86.5	86.4	86.4	86.4
110°	97.0	97.3	97.5	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	108.3	108.5	108.7	108.9	109.0	109.1	109.3	109.5	109.7	109.9	109.9
115°	126.0	126.3	126.4	126.6	126.9	127.0	127.1	127.2	127.2	127.2	127.4
117.5°	142.9	143.0	143.3	143.5	143.7	143.8	144.0	144.2	144.4	144.5	144.9
120°	154.7	154.9	155.1	155.3	155.5	155.6	155.6	155.6	155.6	155.6	156.2
122.5°	166.3	166.4	166.6	166.7	166.9	167.0	167.2	167.4	167.6	167.7	168.1
125°	184.0	184.0	184.1	184.2	184.2	184.4	184.6	184.9	185.0	185.2	185.5
127.5°	200.1	200.4	200.5	200.8	201.0	201.3	201.5	201.8	202.0	202.2	202.5
130°	211.7	212.0	212.2	212.6	212.9	213.0	213.2	213.3	213.5	213.6	213.7
132.5°	222.8	223.0	223.3	223.5	223.7	224.0	224.3	224.5	224.9	225.2	225.2
135°	240.0	240.3	240.5	240.7	240.9	241.0	241.1	241.2	241.2	241.3	241.2
137.5°	255.7	256.0	256.3	256.5	256.8	257.0	257.0	257.1	257.2	257.2	257.0
140°	266.5	266.8	267.1	267.3	267.6	267.8	267.8	267.8	267.8	267.8	267.4
142.5°	276.3	276.6	276.9	277.2	277.5	277.6	277.5	277.5	277.4	277.3	277.1
145°	291.1	291.4	291.7	291.9	292.2	292.3	292.2	292.2	292.1	292.0	291.6
147.5°	304.3	304.5	304.8	305.1	305.3	305.4	305.2	305.1	305.0	304.8	304.5
150°	312.8	313.1	313.3	313.4	313.7	313.7	313.4	313.3	313.1	312.8	312.5
152.5°	320.9	321.2	321.5	321.7	322.0	322.0	321.7	321.5	321.2	320.9	320.6
155°	331.7	332.0	332.2	332.3	332.6	332.5	332.2	331.8	331.4	331.1	330.9
157.5°	341.1	341.4	341.7	342.1	342.4	342.3	341.9	341.3	340.9	340.5	340.3
160°	346.9	347.1	347.4	347.7	347.9	347.9	347.5	347.1	346.6	346.3	346.2
162.5°	351.9	352.2	352.6	352.9	353.2	353.2	352.7	352.2	351.8	351.2	351.2
165°	358.6	358.8	359.2	359.5	359.9	359.8	359.4	358.8	358.4	357.8	357.8
167.5°	363.9	364.3	364.6	365.1	365.4	365.3	364.8	364.4	363.8	363.4	363.4
170°	366.7	367.1	367.6	368.0	368.4	368.4	367.8	367.4	366.8	366.4	366.5
172.5°	369.0	369.4	369.8	370.2	370.7	370.6	370.1	369.6	369.2	368.6	368.7
175°	371.4	371.8	372.3	372.7	373.1	373.1	372.6	372.1	371.6	371.1	371.2
177.5°	372.6	372.9	373.3	373.5	373.9	373.9	373.5	373.3	372.9	372.6	372.6
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1215.4	1212.5	1210.7	1204.1	1198.3	1192.5	1190.6	1191.3	1183.4	1175.7	1172.4
5°	1262.8	1253.7	1245.0	1232.7	1218.2	1202.2	1194.0	1187.6	1171.7	1154.4	1144.4
7.5°	1305.2	1292.2	1275.5	1252.3	1231.2	1206.1	1190.2	1176.1	1152.7	1128.4	1113.4
10°	1331.1	1313.2	1291.8	1263.6	1237.7	1207.2	1185.8	1164.4	1137.1	1108.0	1089.8
12.5°	1353.3	1329.3	1308.2	1272.0	1241.4	1203.2	1177.8	1147.6	1118.9	1084.3	1066.5
15°	1406.1	1362.0	1321.9	1280.9	1243.1	1189.9	1161.7	1121.1	1083.3	1040.6	1020.1
17.5°	1447.0	1397.4	1334.3	1282.2	1238.1	1179.2	1137.7	1089.2	1044.6	995.6	967.8
20°	1470.3	1413.4	1345.6	1283.7	1230.8	1163.5	1118.5	1068.8	1016.5	961.4	931.3
22.5°	1484.2	1424.3	1357.3	1278.2	1216.3	1150.8	1094.0	1039.6	986.6	927.2	895.6
25°	1488.5	1433.9	1362.9	1273.6	1198.1	1123.9	1055.6	1002.8	938.6	883.1	837.1
27.5°	1466.9	1427.7	1359.4	1265.1	1177.1	1090.3	1014.2	954.4	886.6	826.3	780.2
30°	1440.3	1417.5	1351.0	1256.3	1160.3	1067.0	983.2	915.4	848.0	787.0	739.7
32.5°	1399.1	1394.2	1335.8	1243.9	1142.5	1037.5	950.8	882.3	807.6	747.7	702.6
35°	1318.3	1340.2	1303.2	1216.3	1108.8	995.5	901.8	823.5	746.1	688.8	646.4
37.5°	1210.0	1264.2	1254.5	1175.8	1063.5	949.9	846.3	764.5	690.7	632.8	591.3
40°	1135.2	1204.4	1214.5	1144.9	1031.5	914.5	804.8	723.4	651.4	598.6	556.7
42.5°	1055.2	1136.0	1163.5	1107.7	996.5	877.4	767.7	683.2	612.1	560.7	523.6
45°	920.9	1027.9	1077.5	1045.6	938.2	816.2	703.3	617.7	553.0	504.8	476.2
47.5°	795.3	912.2	978.9	967.7	873.3	752.4	640.9	558.7	495.8	457.3	431.6
50°	706.5	826.6	907.2	910.9	826.6	706.9	594.9	517.5	459.8	423.8	402.9
52.5°	629.3	744.0	831.9	851.1	774.5	659.6	553.8	476.8	425.9	392.8	374.1
55°	528.5	625.4	722.8	758.4	696.9	587.6	489.8	422.0	374.2	351.4	335.0
57.5°	439.3	520.2	610.2	649.4	611.5	518.0	426.2	367.4	328.6	308.6	296.0
60°	392.4	456.1	536.2	583.1	550.4	467.1	386.9	330.9	299.1	281.3	269.5
62.5°	348.7	405.1	472.9	515.8	497.9	419.4	347.6	298.2	270.6	254.0	245.5
65°	287.7	332.3	384.7	424.3	412.4	352.8	294.1	251.7	229.9	216.7	209.8
67.5°	236.9	269.1	305.4	340.1	330.6	288.3	241.2	208.2	191.9	180.6	176.5
70°	204.8	229.4	261.7	289.5	281.8	247.2	209.8	181.6	167.6	157.9	153.8
72.5°	174.2	194.5	219.1	241.8	236.6	207.9	176.7	155.4	144.5	135.7	132.3
75°	131.5	147.0	162.0	177.1	175.7	153.4	135.2	118.8	110.1	103.3	101.9
77.5°	97.1	105.8	116.0	124.9	122.4	109.7	95.4	86.1	79.6	75.1	74.4
80°	74.2	79.2	86.5	92.8	89.7	84.2	72.9	66.0	61.4	56.9	55.1
82.5°	53.8	58.9	63.2	66.6	64.2	59.1	52.1	47.4	44.7	41.6	40.8
85°	28.2	30.9	32.8	33.7	32.8	29.6	26.4	24.6	22.3	21.0	20.5
87.5°	12.5	12.2	11.9	12.4	11.1	11.0	9.4	8.1	7.8	7.7	7.1
90°	7.9	6.4	4.9	3.7	2.9	2.0	1.2	0.4	1.2	2.0	2.9
92.5°	9.3	8.9	8.6	8.1	7.5	6.9	6.2	5.6	6.2	6.9	7.5
95°	19.9	19.7	19.6	19.2	18.5	17.7	17.1	16.4	17.1	17.7	18.5
97.5°	33.3	33.1	32.8	32.4	31.7	31.1	30.6	30.0	30.6	31.1	31.7
100°	43.1	42.8	42.6	42.3	41.7	41.1	40.6	40.0	40.6	41.1	41.7
102.5°	53.2	53.0	52.8	52.3	51.9	51.5	51.0	50.6	51.0	51.5	51.9
105°	69.0	68.9	68.8	68.6	68.4	68.1	67.9	67.8	67.9	68.1	68.4
107.5°	86.4	86.4	86.4	86.2	86.0	85.6	85.3	85.0	85.3	85.6	86.0
110°	98.0	98.0	98.0	97.7	97.4	96.9	96.5	96.1	96.5	96.9	97.4



TEST NUMBER: P331331-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	109.9	109.9	110.0	109.9	109.4	109.1	108.6	108.2	108.6	109.1	109.4
115°	127.5	127.7	127.9	127.7	127.2	126.9	126.4	126.0	126.4	126.9	127.2
117.5°	145.3	145.7	146.2	146.1	145.4	144.9	144.4	143.7	144.4	144.9	145.4
120°	156.8	157.3	157.8	157.8	157.3	156.8	156.2	155.6	156.2	156.8	157.3
122.5°	168.5	168.9	169.3	169.2	168.4	167.8	167.1	166.5	167.1	167.8	168.4
125°	185.7	185.8	186.1	185.8	185.2	184.6	184.0	183.3	184.0	184.6	185.2
127.5°	202.8	203.0	203.2	203.0	202.2	201.4	200.6	199.8	200.6	201.4	202.2
130°	213.9	214.0	214.2	213.7	212.9	212.0	211.1	210.2	211.1	212.0	212.9
132.5°	225.2	225.1	225.1	224.7	223.9	223.2	222.5	221.8	222.5	223.2	223.9
135°	241.0	240.9	240.8	240.3	239.5	238.8	238.0	237.2	238.0	238.8	239.5
137.5°	256.8	256.6	256.5	256.1	255.5	254.8	254.1	253.5	254.1	254.8	255.5
140°	267.1	266.7	266.4	265.9	265.3	264.7	264.0	263.4	264.0	264.7	265.3
142.5°	276.9	276.6	276.4	276.0	275.4	274.7	274.1	273.5	274.1	274.7	275.4
145°	291.2	290.8	290.3	289.9	289.4	288.9	288.5	287.9	288.5	288.9	289.4
147.5°	304.3	303.9	303.6	303.2	302.6	302.0	301.5	300.9	301.5	302.0	302.6
150°	312.3	312.0	311.7	311.4	310.9	310.5	310.1	309.7	310.1	310.5	310.9
152.5°	320.2	319.9	319.6	319.1	318.8	318.3	317.9	317.5	317.9	318.3	318.8
155°	330.6	330.5	330.3	330.0	329.8	329.7	329.4	329.2	329.4	329.7	329.8
157.5°	340.2	340.1	339.9	339.8	339.7	339.5	339.4	339.2	339.4	339.5	339.7
160°	346.1	346.0	346.0	345.8	345.7	345.5	345.4	345.3	345.4	345.5	345.7
162.5°	351.2	351.1	351.0	351.0	350.9	350.9	350.9	350.8	350.9	350.9	350.9
165°	357.8	357.8	357.8	357.9	358.0	358.0	358.1	358.2	358.1	358.0	358.0
167.5°	363.4	363.4	363.5	363.6	363.7	364.0	364.2	364.4	364.2	364.0	363.7
170°	366.5	366.6	366.7	366.8	367.0	367.2	367.5	367.7	367.5	367.2	367.0
172.5°	368.8	368.9	368.9	369.1	369.3	369.5	369.7	369.9	369.7	369.5	369.3
175°	371.4	371.6	371.7	371.8	372.0	372.3	372.5	372.7	372.5	372.3	372.0
177.5°	372.8	372.9	373.0	373.2	373.4	373.4	373.6	373.8	373.6	373.4	373.4
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



TEST NUMBER: P331331-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1168.8	1166.6	1159.0	1154.9	1148.3	1142.2	1138.2	1140.1	1141.5	1140.8	1139.6
5°	1135.2	1126.6	1113.4	1102.1	1093.9	1078.8	1072.5	1069.3	1066.6	1063.4	1060.2
7.5°	1095.4	1081.7	1062.8	1046.6	1031.3	1012.6	1002.0	995.6	989.1	981.9	975.5
10°	1067.0	1047.8	1027.9	1005.0	986.9	970.0	955.0	945.0	935.9	927.3	920.9
12.5°	1037.1	1015.1	990.3	959.2	939.1	915.1	912.8	895.1	880.9	875.6	868.1
15°	989.6	958.7	927.3	890.4	874.4	852.6	838.9	825.3	813.0	804.3	802.1
17.5°	935.6	895.5	864.3	837.9	811.7	789.3	776.8	765.8	755.7	744.1	742.6
20°	894.5	859.9	825.7	802.5	775.7	752.9	737.4	726.5	717.8	711.1	705.1
22.5°	855.5	817.6	786.4	761.0	734.5	716.1	703.9	693.4	686.2	678.6	673.1
25°	793.0	763.4	729.2	700.5	678.7	666.9	656.8	647.7	643.2	638.2	631.9
27.5°	738.2	705.3	673.4	651.2	632.0	621.5	614.4	608.2	604.0	601.0	597.4
30°	699.6	666.4	641.4	619.6	603.6	593.2	588.6	585.0	580.0	578.1	576.3
32.5°	662.5	632.6	611.2	592.2	577.0	570.2	566.0	562.8	558.8	557.0	553.3
35°	609.9	585.0	564.0	553.5	541.3	535.3	532.2	527.5	524.0	522.1	521.7
37.5°	560.5	538.8	525.0	511.6	506.4	502.7	498.4	495.3	494.2	493.9	493.5
40°	528.5	510.8	498.5	487.5	485.3	479.7	476.2	473.4	473.4	473.9	473.4
42.5°	499.4	483.4	472.6	463.2	460.5	457.2	453.5	453.3	454.1	455.7	454.1
45°	455.2	443.8	436.0	431.5	426.5	423.3	422.8	424.3	424.7	425.2	426.5
47.5°	414.6	407.1	400.0	395.0	392.8	392.3	391.7	394.1	396.3	397.1	399.2
50°	390.6	381.9	376.0	372.8	371.0	370.1	371.0	373.7	375.5	377.8	379.2
52.5°	363.6	357.5	353.4	351.0	350.3	350.8	351.0	354.1	357.0	357.8	358.5
55°	326.4	321.8	320.9	316.8	318.6	318.2	320.5	322.3	325.0	327.7	328.2
57.5°	289.3	285.6	283.1	283.5	284.0	286.1	287.9	291.1	294.1	296.9	297.2
60°	264.5	262.6	261.3	261.3	262.2	264.9	267.2	270.4	272.2	274.0	275.4
62.5°	241.9	240.0	238.7	239.4	241.8	243.4	246.1	247.8	249.6	251.5	252.1
65°	206.2	205.3	206.7	207.6	208.0	210.3	213.5	214.8	216.7	217.6	220.8
67.5°	173.3	173.5	173.3	174.6	177.3	177.8	180.8	184.0	184.3	186.1	188.2
70°	151.1	152.0	152.9	153.8	156.1	157.0	159.3	160.7	162.5	163.9	165.2
72.5°	130.7	130.9	131.8	131.6	133.6	135.5	137.5	138.8	140.6	142.4	143.7
75°	100.6	100.6	101.5	101.9	104.2	106.6	106.0	107.0	108.8	110.6	111.6
77.5°	73.5	72.5	73.5	73.9	74.6	76.6	77.0	78.2	80.3	79.6	80.7
80°	56.0	54.7	56.0	56.4	56.4	58.8	58.8	59.7	61.0	59.7	61.0
82.5°	39.9	39.3	40.3	40.4	41.1	41.2	42.0	42.2	43.5	42.9	43.5
85°	20.1	19.6	20.1	19.6	20.1	20.5	20.5	20.1	20.1	21.0	19.6
87.5°	7.0	6.8	6.8	7.0	7.0	7.0	6.5	6.5	6.5	5.7	5.7
90°	3.7	4.9	6.4	7.9	9.5	11.1	10.9	10.8	10.6	10.4	10.4
92.5°	8.1	8.6	8.9	9.3	9.6	10.0	10.1	10.1	10.1	10.2	10.2
95°	19.2	19.6	19.7	19.9	20.1	20.2	20.2	20.2	20.2	20.2	20.1
97.5°	32.4	32.8	33.1	33.3	33.6	33.9	33.9	33.9	33.9	33.9	33.9
100°	42.3	42.6	42.8	43.1	43.2	43.5	43.5	43.5	43.5	43.5	43.4
102.5°	52.3	52.8	53.0	53.2	53.5	53.8	53.9	53.9	53.9	54.0	54.0
105°	68.6	68.8	68.9	69.0	69.2	69.3	69.5	69.6	69.7	69.9	69.9
107.5°	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.5	86.6	86.6	86.5
110°	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	97.9



TEST NUMBER: P331331-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	109.9	110.0	109.9	109.9	109.9	109.9	109.7	109.5	109.3	109.1	109.0
115°	127.7	127.9	127.7	127.5	127.4	127.2	127.2	127.2	127.1	127.0	126.9
117.5°	146.1	146.2	145.7	145.3	144.9	144.5	144.4	144.2	144.0	143.8	143.7
120°	157.8	157.8	157.3	156.8	156.2	155.6	155.6	155.6	155.6	155.6	155.5
122.5°	169.2	169.3	168.9	168.5	168.1	167.7	167.6	167.4	167.2	167.0	166.9
125°	185.8	186.1	185.8	185.7	185.5	185.2	185.0	184.9	184.6	184.4	184.2
127.5°	203.0	203.2	203.0	202.8	202.5	202.2	202.0	201.8	201.5	201.3	201.0
130°	213.7	214.2	214.0	213.9	213.7	213.6	213.5	213.3	213.2	213.0	212.9
132.5°	224.7	225.1	225.1	225.2	225.2	225.2	224.9	224.5	224.3	224.0	223.7
135°	240.3	240.8	240.9	241.0	241.2	241.3	241.2	241.2	241.1	241.0	240.9
137.5°	256.1	256.5	256.6	256.8	257.0	257.2	257.2	257.1	257.0	257.0	256.8
140°	265.9	266.4	266.7	267.1	267.4	267.8	267.8	267.8	267.8	267.8	267.6
142.5°	276.0	276.4	276.6	276.9	277.1	277.3	277.4	277.5	277.5	277.6	277.5
145°	289.9	290.3	290.8	291.2	291.6	292.0	292.1	292.2	292.2	292.3	292.2
147.5°	303.2	303.6	303.9	304.3	304.5	304.8	305.0	305.1	305.2	305.4	305.3
150°	311.4	311.7	312.0	312.3	312.5	312.8	313.1	313.3	313.4	313.7	313.7
152.5°	319.1	319.6	319.9	320.2	320.6	320.9	321.2	321.5	321.7	322.0	322.0
155°	330.0	330.3	330.5	330.6	330.9	331.1	331.4	331.8	332.2	332.5	332.6
157.5°	339.8	339.9	340.1	340.2	340.3	340.5	340.9	341.3	341.9	342.3	342.4
160°	345.8	346.0	346.0	346.1	346.2	346.3	346.6	347.1	347.5	347.9	347.9
162.5°	351.0	351.0	351.1	351.2	351.2	351.2	351.8	352.2	352.7	353.2	353.2
165°	357.9	357.8	357.8	357.8	357.8	357.8	358.4	358.8	359.4	359.8	359.9
167.5°	363.6	363.5	363.4	363.4	363.4	363.4	363.8	364.4	364.8	365.3	365.4
170°	366.8	366.7	366.6	366.5	366.5	366.4	366.8	367.4	367.8	368.4	368.4
172.5°	369.1	368.9	368.9	368.8	368.7	368.6	369.2	369.6	370.1	370.6	370.7
175°	371.8	371.7	371.6	371.4	371.2	371.1	371.6	372.1	372.6	373.1	373.1
177.5°	373.2	373.0	372.9	372.8	372.6	372.6	372.9	373.3	373.5	373.9	373.9
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



TEST NUMBER: P331331-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1136.0	1135.2	1135.2	1132.0	1135.2	1135.2	1136.0	1139.6	1140.8	1141.5	1140.1
5°	1053.8	1052.4	1050.2	1052.4	1050.2	1052.4	1053.8	1060.2	1063.4	1066.6	1069.3
7.5°	972.5	967.1	966.3	960.8	966.3	967.1	972.5	975.5	981.9	989.1	995.6
10°	913.1	909.5	909.0	900.4	909.0	909.5	913.1	920.9	927.3	935.9	945.0
12.5°	868.0	859.3	860.9	856.0	860.9	859.3	868.0	868.1	875.6	880.9	895.1
15°	789.8	789.8	787.9	780.2	787.9	789.8	789.8	802.1	804.3	813.0	825.3
17.5°	733.6	732.7	728.3	730.5	728.3	732.7	733.6	742.6	744.1	755.7	765.8
20°	700.1	697.4	691.9	691.9	691.9	697.4	700.1	705.1	711.1	717.8	726.5
22.5°	668.4	668.2	662.5	664.2	662.5	668.2	668.4	673.1	678.6	686.2	693.4
25°	631.3	627.8	625.0	626.3	625.0	627.8	631.3	631.9	638.2	643.2	647.7
27.5°	596.2	594.2	594.1	590.3	594.1	594.2	596.2	597.4	601.0	604.0	608.2
30°	575.9	571.3	572.2	569.9	572.2	571.3	575.9	576.3	578.1	580.0	585.0
32.5°	552.5	550.9	550.0	548.0	550.0	550.9	552.5	553.3	557.0	558.8	562.8
35°	520.8	521.2	519.0	519.9	519.0	521.2	520.8	521.7	522.1	524.0	527.5
37.5°	493.0	494.5	493.4	493.7	493.4	494.5	493.0	493.5	493.9	494.2	495.3
40°	474.7	474.7	474.7	476.2	474.7	474.7	474.7	473.4	473.9	473.4	473.4
42.5°	457.3	456.6	455.8	455.8	455.8	456.6	457.3	454.1	455.7	454.1	453.3
45°	427.4	428.8	429.3	427.0	429.3	428.8	427.4	426.5	425.2	424.7	424.3
47.5°	400.4	400.6	400.4	402.4	400.4	400.6	400.4	399.2	397.1	396.3	394.1
50°	381.5	380.6	381.5	380.6	381.5	380.6	381.5	379.2	377.8	375.5	373.7
52.5°	361.4	361.6	361.1	360.9	361.1	361.6	361.4	358.5	357.8	357.0	354.1
55°	330.0	330.9	330.5	330.5	330.5	330.9	330.0	328.2	327.7	325.0	322.3
57.5°	297.6	298.4	299.0	296.9	299.0	298.4	297.6	297.2	296.9	294.1	291.1
60°	274.9	277.2	276.8	275.9	276.8	277.2	274.9	275.4	274.0	272.2	270.4
62.5°	254.2	255.0	254.9	254.8	254.9	255.0	254.2	252.1	251.5	249.6	247.8
65°	222.1	223.0	221.7	223.0	221.7	223.0	222.1	220.8	217.6	216.7	214.8
67.5°	187.6	187.9	189.0	189.6	189.0	187.9	187.6	188.2	186.1	184.3	184.0
70°	166.1	165.7	167.0	168.4	167.0	165.7	166.1	165.2	163.9	162.5	160.7
72.5°	143.6	144.5	144.1	145.1	144.1	144.5	143.6	143.7	142.4	140.6	138.8
75°	110.6	112.0	111.6	112.9	111.6	112.0	110.6	111.6	110.6	108.8	107.0
77.5°	79.9	80.1	79.9	80.7	79.9	80.1	79.9	80.7	79.6	80.3	78.2
80°	61.0	60.1	59.2	61.0	59.2	60.1	61.0	61.0	59.7	61.0	59.7
82.5°	42.4	43.0	42.1	42.1	42.1	43.0	42.4	43.5	42.9	43.5	42.2
85°	19.6	19.1	18.2	18.2	18.2	19.1	19.6	19.6	21.0	20.1	20.1
87.5°	5.7	5.4	5.4	5.1	5.4	5.4	5.7	5.7	5.7	6.5	6.5
90°	10.5	10.6	10.6	10.7	10.6	10.6	10.5	10.4	10.4	10.6	10.8
92.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.1	10.1
95°	20.0	19.8	19.7	19.5	19.7	19.8	20.0	20.1	20.2	20.2	20.2
97.5°	33.9	33.9	33.9	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9
100°	43.3	43.3	43.2	43.2	43.2	43.3	43.3	43.4	43.5	43.5	43.5
102.5°	53.9	53.9	53.9	53.8	53.9	53.9	53.9	54.0	54.0	53.9	53.9
105°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.7	69.6
107.5°	86.1	85.9	85.5	85.2	85.5	85.9	86.1	86.5	86.6	86.6	86.5
110°	97.6	97.5	97.3	97.0	97.3	97.5	97.6	97.9	98.0	98.0	98.0



TEST NUMBER: P331331-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	108.9	108.7	108.5	108.3	108.5	108.7	108.9	109.0	109.1	109.3	109.5
115°	126.6	126.4	126.3	126.0	126.3	126.4	126.6	126.9	127.0	127.1	127.2
117.5°	143.5	143.3	143.0	142.9	143.0	143.3	143.5	143.7	143.8	144.0	144.2
120°	155.3	155.1	154.9	154.7	154.9	155.1	155.3	155.5	155.6	155.6	155.6
122.5°	166.7	166.6	166.4	166.3	166.4	166.6	166.7	166.9	167.0	167.2	167.4
125°	184.2	184.1	184.0	184.0	184.0	184.1	184.2	184.2	184.4	184.6	184.9
127.5°	200.8	200.5	200.4	200.1	200.4	200.5	200.8	201.0	201.3	201.5	201.8
130°	212.6	212.2	212.0	211.7	212.0	212.2	212.6	212.9	213.0	213.2	213.3
132.5°	223.5	223.3	223.0	222.8	223.0	223.3	223.5	223.7	224.0	224.3	224.5
135°	240.7	240.5	240.3	240.0	240.3	240.5	240.7	240.9	241.0	241.1	241.2
137.5°	256.5	256.3	256.0	255.7	256.0	256.3	256.5	256.8	257.0	257.0	257.1
140°	267.3	267.1	266.8	266.5	266.8	267.1	267.3	267.6	267.8	267.8	267.8
142.5°	277.2	276.9	276.6	276.3	276.6	276.9	277.2	277.5	277.6	277.5	277.5
145°	291.9	291.7	291.4	291.1	291.4	291.7	291.9	292.2	292.3	292.2	292.2
147.5°	305.1	304.8	304.5	304.3	304.5	304.8	305.1	305.3	305.4	305.2	305.1
150°	313.4	313.3	313.1	312.8	313.1	313.3	313.4	313.7	313.7	313.4	313.3
152.5°	321.7	321.5	321.2	320.9	321.2	321.5	321.7	322.0	322.0	321.7	321.5
155°	332.3	332.2	332.0	331.7	332.0	332.2	332.3	332.6	332.5	332.2	331.8
157.5°	342.1	341.7	341.4	341.1	341.4	341.7	342.1	342.4	342.3	341.9	341.3
160°	347.7	347.4	347.1	346.9	347.1	347.4	347.7	347.9	347.9	347.5	347.1
162.5°	352.9	352.6	352.2	351.9	352.2	352.6	352.9	353.2	353.2	352.7	352.2
165°	359.5	359.2	358.8	358.6	358.8	359.2	359.5	359.9	359.8	359.4	358.8
167.5°	365.1	364.6	364.3	363.9	364.3	364.6	365.1	365.4	365.3	364.8	364.4
170°	368.0	367.6	367.1	366.7	367.1	367.6	368.0	368.4	368.4	367.8	367.4
172.5°	370.2	369.8	369.4	369.0	369.4	369.8	370.2	370.7	370.6	370.1	369.6
175°	372.7	372.3	371.8	371.4	371.8	372.3	372.7	373.1	373.1	372.6	372.1
177.5°	373.5	373.3	372.9	372.6	372.9	373.3	373.5	373.9	373.9	373.5	373.3
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



TEST NUMBER: P331331-940
 CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1138.2	1142.2	1148.3	1154.9	1159.0	1166.6	1168.8	1172.4	1175.7	1183.4	1191.3
5°	1072.5	1078.8	1093.9	1102.1	1113.4	1126.6	1135.2	1144.4	1154.4	1171.7	1187.6
7.5°	1002.0	1012.6	1031.3	1046.6	1062.8	1081.7	1095.4	1113.4	1128.4	1152.7	1176.1
10°	955.0	970.0	986.9	1005.0	1027.9	1047.8	1067.0	1089.8	1108.0	1137.1	1164.4
12.5°	912.8	915.1	939.1	959.2	990.3	1015.1	1037.1	1066.5	1084.3	1118.9	1147.6
15°	838.9	852.6	874.4	890.4	927.3	958.7	989.6	1020.1	1040.6	1083.3	1121.1
17.5°	776.8	789.3	811.7	837.9	864.3	895.5	935.6	967.8	995.6	1044.6	1089.2
20°	737.4	752.9	775.7	802.5	825.7	859.9	894.5	931.3	961.4	1016.5	1068.8
22.5°	703.9	716.1	734.5	761.0	786.4	817.6	855.5	895.6	927.2	986.6	1039.6
25°	656.8	666.9	678.7	700.5	729.2	763.4	793.0	837.1	883.1	938.6	1002.8
27.5°	614.4	621.5	632.0	651.2	673.4	705.3	738.2	780.2	826.3	886.6	954.4
30°	588.6	593.2	603.6	619.6	641.4	666.4	699.6	739.7	787.0	848.0	915.4
32.5°	566.0	570.2	577.0	592.2	611.2	632.6	662.5	702.6	747.7	807.6	882.3
35°	532.2	535.3	541.3	553.5	564.0	585.0	609.9	646.4	688.8	746.1	823.5
37.5°	498.4	502.7	506.4	511.6	525.0	538.8	560.5	591.3	632.8	690.7	764.5
40°	476.2	479.7	485.3	487.5	498.5	510.8	528.5	556.7	598.6	651.4	723.4
42.5°	453.5	457.2	460.5	463.2	472.6	483.4	499.4	523.6	560.7	612.1	683.2
45°	422.8	423.3	426.5	431.5	436.0	443.8	455.2	476.2	504.8	553.0	617.7
47.5°	391.7	392.3	392.8	395.0	400.0	407.1	414.6	431.6	457.3	495.8	558.7
50°	371.0	370.1	371.0	372.8	376.0	381.9	390.6	402.9	423.8	459.8	517.5
52.5°	351.0	350.8	350.3	351.0	353.4	357.5	363.6	374.1	392.8	425.9	476.8
55°	320.5	318.2	318.6	316.8	320.9	321.8	326.4	335.0	351.4	374.2	422.0
57.5°	287.9	286.1	284.0	283.5	283.1	285.6	289.3	296.0	308.6	328.6	367.4
60°	267.2	264.9	262.2	261.3	261.3	262.6	264.5	269.5	281.3	299.1	330.9
62.5°	246.1	243.4	241.8	239.4	238.7	240.0	241.9	245.5	254.0	270.6	298.2
65°	213.5	210.3	208.0	207.6	206.7	205.3	206.2	209.8	216.7	229.9	251.7
67.5°	180.8	177.8	177.3	174.6	173.3	173.5	173.3	176.5	180.6	191.9	208.2
70°	159.3	157.0	156.1	153.8	152.9	152.0	151.1	153.8	157.9	167.6	181.6
72.5°	137.5	135.5	133.6	131.6	131.8	130.9	130.7	132.3	135.7	144.5	155.4
75°	106.0	106.6	104.2	101.9	101.5	100.6	100.6	101.9	103.3	110.1	118.8
77.5°	77.0	76.6	74.6	73.9	73.5	72.5	73.5	74.4	75.1	79.6	86.1
80°	58.8	58.8	56.4	56.4	56.0	54.7	56.0	55.1	56.9	61.4	66.0
82.5°	42.0	41.2	41.1	40.4	40.3	39.3	39.9	40.8	41.6	44.7	47.4
85°	20.5	20.5	20.1	19.6	20.1	19.6	20.1	20.5	21.0	22.3	24.6
87.5°	6.5	7.0	7.0	7.0	6.8	6.8	7.0	7.1	7.7	7.8	8.1
90°	10.9	11.1	9.5	7.9	6.4	4.9	3.7	2.9	2.0	1.2	0.4
92.5°	10.1	10.0	9.6	9.3	8.9	8.6	8.1	7.5	6.9	6.2	5.6
95°	20.2	20.2	20.1	19.9	19.7	19.6	19.2	18.5	17.7	17.1	16.4
97.5°	33.9	33.9	33.6	33.3	33.1	32.8	32.4	31.7	31.1	30.6	30.0
100°	43.5	43.5	43.2	43.1	42.8	42.6	42.3	41.7	41.1	40.6	40.0
102.5°	53.9	53.8	53.5	53.2	53.0	52.8	52.3	51.9	51.5	51.0	50.6
105°	69.5	69.3	69.2	69.0	68.9	68.8	68.6	68.4	68.1	67.9	67.8
107.5°	86.4	86.4	86.4	86.4	86.4	86.4	86.2	86.0	85.6	85.3	85.0
110°	98.0	98.0	98.0	98.0	98.0	98.0	97.7	97.4	96.9	96.5	96.1



TEST NUMBER: P331331-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	109.7	109.9	109.9	109.9	109.9	110.0	109.9	109.4	109.1	108.6	108.2
115°	127.2	127.2	127.4	127.5	127.7	127.9	127.7	127.2	126.9	126.4	126.0
117.5°	144.4	144.5	144.9	145.3	145.7	146.2	146.1	145.4	144.9	144.4	143.7
120°	155.6	155.6	156.2	156.8	157.3	157.8	157.8	157.3	156.8	156.2	155.6
122.5°	167.6	167.7	168.1	168.5	168.9	169.3	169.2	168.4	167.8	167.1	166.5
125°	185.0	185.2	185.5	185.7	185.8	186.1	185.8	185.2	184.6	184.0	183.3
127.5°	202.0	202.2	202.5	202.8	203.0	203.2	203.0	202.2	201.4	200.6	199.8
130°	213.5	213.6	213.7	213.9	214.0	214.2	213.7	212.9	212.0	211.1	210.2
132.5°	224.9	225.2	225.2	225.2	225.1	225.1	224.7	223.9	223.2	222.5	221.8
135°	241.2	241.3	241.2	241.0	240.9	240.8	240.3	239.5	238.8	238.0	237.2
137.5°	257.2	257.2	257.0	256.8	256.6	256.5	256.1	255.5	254.8	254.1	253.5
140°	267.8	267.8	267.4	267.1	266.7	266.4	265.9	265.3	264.7	264.0	263.4
142.5°	277.4	277.3	277.1	276.9	276.6	276.4	276.0	275.4	274.7	274.1	273.5
145°	292.1	292.0	291.6	291.2	290.8	290.3	289.9	289.4	288.9	288.5	287.9
147.5°	305.0	304.8	304.5	304.3	303.9	303.6	303.2	302.6	302.0	301.5	300.9
150°	313.1	312.8	312.5	312.3	312.0	311.7	311.4	310.9	310.5	310.1	309.7
152.5°	321.2	320.9	320.6	320.2	319.9	319.6	319.1	318.8	318.3	317.9	317.5
155°	331.4	331.1	330.9	330.6	330.5	330.3	330.0	329.8	329.7	329.4	329.2
157.5°	340.9	340.5	340.3	340.2	340.1	339.9	339.8	339.7	339.5	339.4	339.2
160°	346.6	346.3	346.2	346.1	346.0	346.0	345.8	345.7	345.5	345.4	345.3
162.5°	351.8	351.2	351.2	351.2	351.1	351.0	351.0	350.9	350.9	350.9	350.8
165°	358.4	357.8	357.8	357.8	357.8	357.8	357.9	358.0	358.0	358.1	358.2
167.5°	363.8	363.4	363.4	363.4	363.4	363.5	363.6	363.7	364.0	364.2	364.4
170°	366.8	366.4	366.5	366.5	366.6	366.7	366.8	367.0	367.2	367.5	367.7
172.5°	369.2	368.6	368.7	368.8	368.9	368.9	369.1	369.3	369.5	369.7	369.9
175°	371.6	371.1	371.2	371.4	371.6	371.7	371.8	372.0	372.3	372.5	372.7
177.5°	372.9	372.6	372.6	372.8	372.9	373.0	373.2	373.4	373.4	373.6	373.8
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



TEST NUMBER: P331331-940

CATALOG NUMBER: SA2XXDIP-C675D330U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1190.6	1192.5	1198.3	1204.1	1210.7	1212.5	1215.4	1212.8	1212.1	1219.1	1224.1
5°	1194.0	1202.2	1218.2	1232.7	1245.0	1253.7	1262.8	1266.4	1273.2	1282.7	1294.6
7.5°	1190.2	1206.1	1231.2	1252.3	1275.5	1292.2	1305.2	1316.3	1329.7	1347.8	1367.6
10°	1185.8	1207.2	1237.7	1263.6	1291.8	1313.2	1331.1	1348.3	1368.3	1393.4	1419.3
12.5°	1177.8	1203.2	1241.4	1272.0	1308.2	1329.3	1353.3	1390.5	1412.0	1446.9	1483.5
15°	1161.7	1189.9	1243.1	1280.9	1321.9	1362.0	1406.1	1441.6	1477.1	1497.6	1549.1
17.5°	1137.7	1179.2	1238.1	1282.2	1334.3	1397.4	1447.0	1487.2	1528.2	1561.5	1587.2
20°	1118.5	1163.5	1230.8	1283.7	1345.6	1413.4	1470.3	1511.3	1546.8	1574.6	1590.5
22.5°	1094.0	1150.8	1216.3	1278.2	1357.3	1424.3	1484.2	1516.4	1546.0	1559.6	1565.8
25°	1055.6	1123.9	1198.1	1273.6	1362.9	1433.9	1488.5	1508.1	1516.7	1503.5	1481.7
27.5°	1014.2	1090.3	1177.1	1265.1	1359.4	1427.7	1466.9	1463.7	1449.1	1406.4	1372.3
30°	983.2	1067.0	1160.3	1256.3	1351.0	1417.5	1440.3	1417.5	1384.3	1336.5	1287.8
32.5°	950.8	1037.5	1142.5	1243.9	1335.8	1394.2	1399.1	1359.9	1308.5	1254.2	1193.5
35°	901.8	995.5	1108.8	1216.3	1303.2	1340.2	1318.3	1249.1	1188.1	1113.9	1031.0
37.5°	846.3	949.9	1063.5	1175.8	1254.5	1264.2	1210.0	1137.1	1051.1	963.9	866.4
40°	804.8	914.5	1031.5	1144.9	1214.5	1204.4	1135.2	1055.2	952.7	846.2	755.6
42.5°	767.7	877.4	996.5	1107.7	1163.5	1136.0	1055.2	956.8	846.8	746.5	663.5
45°	703.3	816.2	938.2	1045.6	1077.5	1027.9	920.9	811.6	703.3	619.6	554.0
47.5°	640.9	752.4	873.3	967.7	978.9	912.2	795.3	682.9	589.8	521.6	475.3
50°	594.9	706.9	826.6	910.9	907.2	826.6	706.5	599.5	521.7	466.5	435.6
52.5°	553.8	659.6	774.5	851.1	831.9	744.0	629.3	534.3	470.3	427.2	399.2
55°	489.8	587.6	696.9	758.4	722.8	625.4	528.5	452.0	404.7	372.4	350.5
57.5°	426.2	518.0	611.5	649.4	610.2	520.2	439.3	383.9	348.3	324.4	310.1
60°	386.9	467.1	550.4	583.1	536.2	456.1	392.4	342.8	314.1	294.5	281.8
62.5°	347.6	419.4	497.9	515.8	472.9	405.1	348.7	307.5	283.8	266.4	254.5
65°	294.1	352.8	412.4	424.3	384.7	332.3	287.7	260.8	239.9	227.1	217.6
67.5°	241.2	288.3	330.6	340.1	305.4	269.1	236.9	213.5	199.3	188.7	180.7
70°	209.8	247.2	281.8	289.5	261.7	229.4	204.8	186.2	173.4	164.3	156.6
72.5°	176.7	207.9	236.6	241.8	219.1	194.5	174.2	159.6	148.3	142.5	135.1
75°	135.2	153.4	175.7	177.1	162.0	147.0	131.5	122.0	116.1	108.8	105.1
77.5°	95.4	109.7	122.4	124.9	116.0	105.8	97.1	89.6	84.5	81.2	77.8
80°	72.9	84.2	89.7	92.8	86.5	79.2	74.2	69.2	66.0	63.8	61.4
82.5°	52.1	59.1	64.2	66.6	63.2	58.9	53.8	51.0	48.5	46.6	45.8
85°	26.4	29.6	32.8	33.7	32.8	30.9	28.2	28.2	26.8	26.4	26.4
87.5°	9.4	11.0	11.1	12.4	11.9	12.2	12.5	12.5	12.4	12.0	11.6
90°	1.2	2.0	2.9	3.7	4.9	6.4	7.9	9.5	11.1	10.9	10.8
92.5°	6.2	6.9	7.5	8.1	8.6	8.9	9.3	9.6	10.0	10.1	10.1
95°	17.1	17.7	18.5	19.2	19.6	19.7	19.9	20.1	20.2	20.2	20.2
97.5°	30.6	31.1	31.7	32.4	32.8	33.1	33.3	33.6	33.9	33.9	33.9
100°	40.6	41.1	41.7	42.3	42.6	42.8	43.1	43.2	43.5	43.5	43.5
102.5°	51.0	51.5	51.9	52.3	52.8	53.0	53.2	53.5	53.8	53.9	53.9
105°	67.9	68.1	68.4	68.6	68.8	68.9	69.0	69.2	69.3	69.5	69.6
107.5°	85.3	85.6	86.0	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.5
110°	96.5	96.9	97.4	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	108.6	109.1	109.4	109.9	110.0	109.9	109.9	109.9	109.9	109.7	109.5
115°	126.4	126.9	127.2	127.7	127.9	127.7	127.5	127.4	127.2	127.2	127.2
117.5°	144.4	144.9	145.4	146.1	146.2	145.7	145.3	144.9	144.5	144.4	144.2
120°	156.2	156.8	157.3	157.8	157.8	157.3	156.8	156.2	155.6	155.6	155.6
122.5°	167.1	167.8	168.4	169.2	169.3	168.9	168.5	168.1	167.7	167.6	167.4
125°	184.0	184.6	185.2	185.8	186.1	185.8	185.7	185.5	185.2	185.0	184.9
127.5°	200.6	201.4	202.2	203.0	203.2	203.0	202.8	202.5	202.2	202.0	201.8
130°	211.1	212.0	212.9	213.7	214.2	214.0	213.9	213.7	213.6	213.5	213.3
132.5°	222.5	223.2	223.9	224.7	225.1	225.1	225.2	225.2	225.2	224.9	224.5
135°	238.0	238.8	239.5	240.3	240.8	240.9	241.0	241.2	241.3	241.2	241.2
137.5°	254.1	254.8	255.5	256.1	256.5	256.6	256.8	257.0	257.2	257.2	257.1
140°	264.0	264.7	265.3	265.9	266.4	266.7	267.1	267.4	267.8	267.8	267.8
142.5°	274.1	274.7	275.4	276.0	276.4	276.6	276.9	277.1	277.3	277.4	277.5
145°	288.5	288.9	289.4	289.9	290.3	290.8	291.2	291.6	292.0	292.1	292.2
147.5°	301.5	302.0	302.6	303.2	303.6	303.9	304.3	304.5	304.8	305.0	305.1
150°	310.1	310.5	310.9	311.4	311.7	312.0	312.3	312.5	312.8	313.1	313.3
152.5°	317.9	318.3	318.8	319.1	319.6	319.9	320.2	320.6	320.9	321.2	321.5
155°	329.4	329.7	329.8	330.0	330.3	330.5	330.6	330.9	331.1	331.4	331.8
157.5°	339.4	339.5	339.7	339.8	339.9	340.1	340.2	340.3	340.5	340.9	341.3
160°	345.4	345.5	345.7	345.8	346.0	346.0	346.1	346.2	346.3	346.6	347.1
162.5°	350.9	350.9	350.9	351.0	351.0	351.1	351.2	351.2	351.2	351.8	352.2
165°	358.1	358.0	358.0	357.9	357.8	357.8	357.8	357.8	357.8	358.4	358.8
167.5°	364.2	364.0	363.7	363.6	363.5	363.4	363.4	363.4	363.4	363.8	364.4
170°	367.5	367.2	367.0	366.8	366.7	366.6	366.5	366.5	366.4	366.8	367.4
172.5°	369.7	369.5	369.3	369.1	368.9	368.9	368.8	368.7	368.6	369.2	369.6
175°	372.5	372.3	372.0	371.8	371.7	371.6	371.4	371.2	371.1	371.6	372.1
177.5°	373.6	373.4	373.4	373.2	373.0	372.9	372.8	372.6	372.6	372.9	373.3
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1228.5	1233.6	1233.6	1234.3	1240.2	1239.4	1239.0
5°	1307.3	1315.1	1316.0	1324.2	1329.6	1327.8	1322.9
7.5°	1381.7	1396.2	1407.0	1413.1	1420.3	1424.8	1422.8
10°	1440.7	1461.7	1474.4	1483.1	1493.5	1501.3	1498.5
12.5°	1494.2	1519.2	1536.7	1551.5	1552.9	1562.8	1556.0
15°	1577.7	1604.1	1606.9	1617.8	1626.5	1625.5	1625.9
17.5°	1605.3	1613.8	1615.5	1615.8	1615.9	1612.7	1605.8
20°	1595.4	1592.3	1584.6	1578.7	1568.2	1566.8	1557.7
22.5°	1548.9	1538.7	1519.4	1506.5	1490.2	1485.9	1483.5
25°	1457.1	1434.8	1403.8	1374.2	1366.1	1350.1	1354.7
27.5°	1331.2	1296.5	1262.9	1238.9	1217.1	1193.3	1200.1
30°	1242.7	1203.5	1156.2	1119.8	1096.6	1073.8	1069.7
32.5°	1137.1	1079.8	1026.9	994.9	959.3	944.9	929.2
35°	955.0	899.0	846.7	801.6	775.7	755.6	737.4
37.5°	791.2	726.7	684.6	648.0	629.3	617.8	620.7
40°	689.6	633.2	602.3	574.4	557.1	548.9	550.8
42.5°	607.3	565.1	539.6	520.6	508.4	503.8	502.7
45°	513.9	490.3	469.3	458.4	452.5	447.5	444.3
47.5°	450.2	430.9	419.1	412.6	407.4	402.3	402.3
50°	412.0	399.2	391.0	384.1	380.1	376.5	379.6
52.5°	382.8	371.1	363.0	356.9	355.3	352.0	352.0
55°	339.6	330.5	324.6	319.1	316.4	314.5	312.3
57.5°	300.2	291.6	286.1	282.7	277.5	275.6	274.9
60°	272.2	265.4	259.9	255.4	253.1	249.4	249.4
62.5°	246.4	239.5	234.4	231.0	227.2	225.8	226.1
65°	208.9	203.5	198.5	194.8	193.9	191.2	192.1
67.5°	174.5	170.9	165.6	163.6	161.8	160.4	159.3
70°	151.6	147.9	145.2	142.5	141.1	141.1	141.1
72.5°	132.2	127.9	126.3	122.8	123.6	122.2	120.7
75°	102.5	99.7	98.4	96.9	94.7	94.7	94.7
77.5°	75.3	74.5	72.9	71.4	70.9	70.4	70.6
80°	58.2	57.8	56.9	56.9	56.0	55.6	54.7
82.5°	44.8	43.6	43.1	42.7	42.5	42.4	42.3
85°	25.5	24.6	24.6	25.1	24.2	24.2	24.6
87.5°	11.9	11.9	11.6	11.6	11.9	11.6	11.6
90°	10.6	10.4	10.4	10.5	10.6	10.6	10.7
92.5°	10.1	10.2	10.2	10.2	10.2	10.2	10.2
95°	20.2	20.2	20.1	20.0	19.8	19.7	19.5
97.5°	33.9	33.9	33.9	33.9	33.9	33.9	33.8
100°	43.5	43.5	43.4	43.3	43.3	43.2	43.2
102.5°	53.9	54.0	54.0	53.9	53.9	53.9	53.8
105°	69.7	69.9	69.9	69.9	69.9	69.9	69.9
107.5°	86.6	86.6	86.5	86.1	85.9	85.5	85.2
110°	98.0	98.0	97.9	97.6	97.5	97.3	97.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	109.3	109.1	109.0	108.9	108.7	108.5	108.3
115°	127.1	127.0	126.9	126.6	126.4	126.3	126.0
117.5°	144.0	143.8	143.7	143.5	143.3	143.0	142.9
120°	155.6	155.6	155.5	155.3	155.1	154.9	154.7
122.5°	167.2	167.0	166.9	166.7	166.6	166.4	166.3
125°	184.6	184.4	184.2	184.2	184.1	184.0	184.0
127.5°	201.5	201.3	201.0	200.8	200.5	200.4	200.1
130°	213.2	213.0	212.9	212.6	212.2	212.0	211.7
132.5°	224.3	224.0	223.7	223.5	223.3	223.0	222.8
135°	241.1	241.0	240.9	240.7	240.5	240.3	240.0
137.5°	257.0	257.0	256.8	256.5	256.3	256.0	255.7
140°	267.8	267.8	267.6	267.3	267.1	266.8	266.5
142.5°	277.5	277.6	277.5	277.2	276.9	276.6	276.3
145°	292.2	292.3	292.2	291.9	291.7	291.4	291.1
147.5°	305.2	305.4	305.3	305.1	304.8	304.5	304.3
150°	313.4	313.7	313.7	313.4	313.3	313.1	312.8
152.5°	321.7	322.0	322.0	321.7	321.5	321.2	320.9
155°	332.2	332.5	332.6	332.3	332.2	332.0	331.7
157.5°	341.9	342.3	342.4	342.1	341.7	341.4	341.1
160°	347.5	347.9	347.9	347.7	347.4	347.1	346.9
162.5°	352.7	353.2	353.2	352.9	352.6	352.2	351.9
165°	359.4	359.8	359.9	359.5	359.2	358.8	358.6
167.5°	364.8	365.3	365.4	365.1	364.6	364.3	363.9
170°	367.8	368.4	368.4	368.0	367.6	367.1	366.7
172.5°	370.1	370.6	370.7	370.2	369.8	369.4	369.0
175°	372.6	373.1	373.1	372.7	372.3	371.8	371.4
177.5°	373.5	373.9	373.9	373.5	373.3	372.9	372.6
180°	373.4	373.4	373.4	373.4	373.4	373.4	373.4

(END OF REPORT)