

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: P331330-930

Luminaire Tested: **SA2XXDIP-C675D330U930-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331330-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C675D330U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

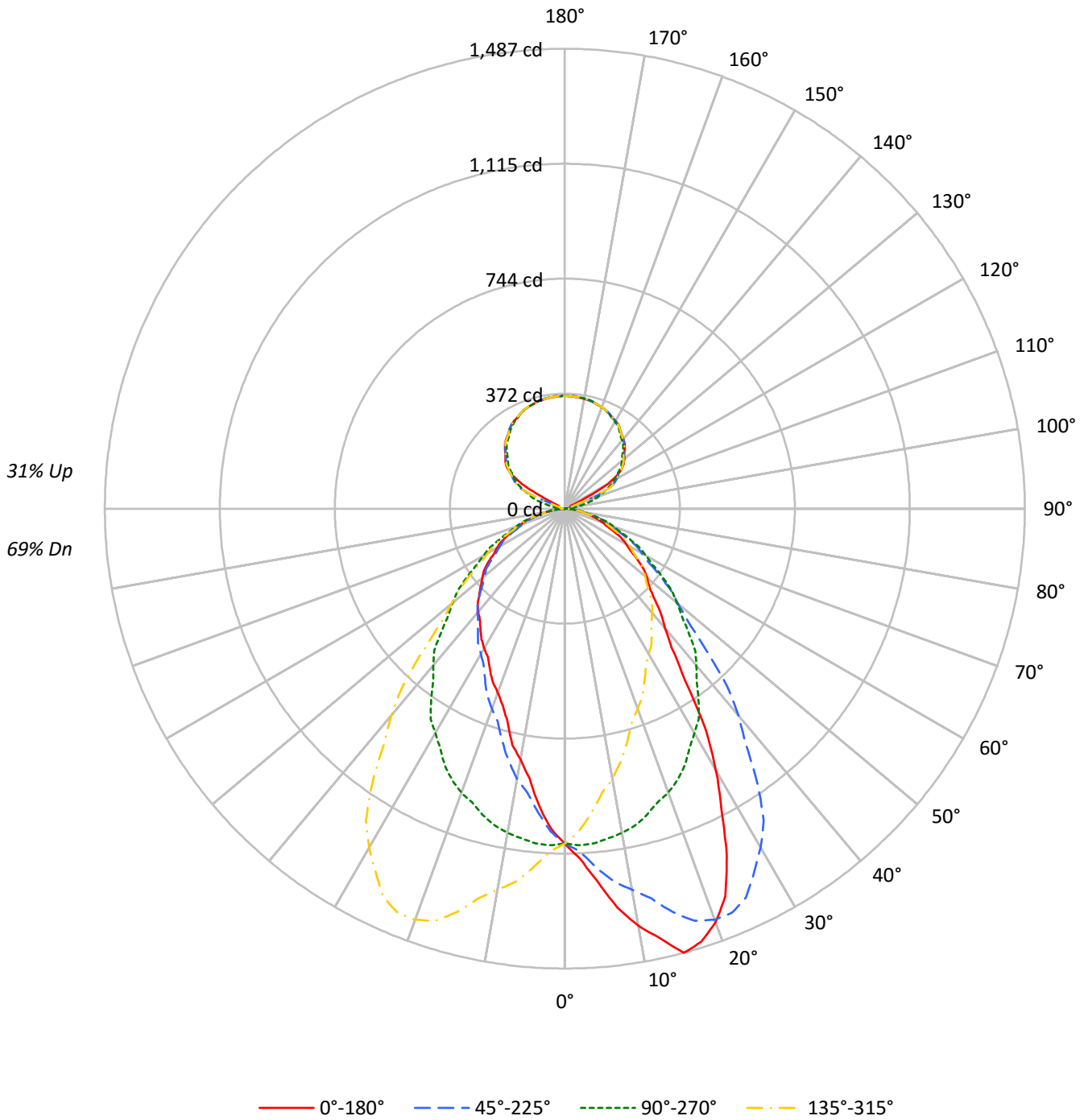
Lumens per Lamp: N/A
Luminaire Lumens: 3457.7 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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



TEST NUMBER: P331330-930
CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

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	94	94	94	83	83	83	74	74	74	69				
1	103	99	95	91	97	93	90	87	83	81	79	74	73	71	66	65	64	60				
2	94	87	81	76	89	82	77	73	74	70	66	66	63	60	59	57	55	51				
3	86	77	70	64	81	73	67	61	66	61	57	59	55	52	53	50	47	44				
4	79	69	61	55	75	65	58	53	59	53	49	53	49	45	48	44	41	38				
5	73	62	54	48	69	59	51	46	53	47	43	48	43	40	43	40	36	34				
6	68	56	48	42	64	53	46	40	48	42	38	44	39	35	40	36	32	30				
7	63	51	43	37	59	48	41	36	44	38	34	40	35	31	36	32	29	27				
8	59	46	39	33	55	44	37	32	41	35	30	37	32	28	34	29	26	24				
9	55	43	35	30	52	41	34	29	37	31	27	34	29	26	31	27	24	22				
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17486	17486	17486	17486
5°	19603	17598	15595	17598
10°	22463	17454	13496	17454
15°	24849	17135	11925	17135
20°	24471	16790	10869	16790
25°	22066	16335	10203	16335
30°	18233	15605	9715	15605
35°	13291	14840	9368	14840
40°	10614	13940	9177	13940
45°	9275	12896	8914	12896
50°	8719	11886	8741	11886
55°	8037	10860	8504	10860
60°	7363	9771	8147	9771
65°	6709	8795	7790	8795
70°	6090	7841	7270	7841
75°	5402	6775	6438	6775
80°	4649	5607	5188	5607
85°	4168	4168	3075	4168



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	3.0
10°-20°	299.8	8.7
20°-30°	435.1	12.6
30°-40°	459.2	13.3
40°-50°	406.6	11.8
50°-60°	324.5	9.4
60°-70°	220.5	6.4
70°-80°	113.1	3.3
80°-90°	28.2	0.8
90°-100°	12.1	0.4
100°-110°	44.6	1.3
110°-120°	119.1	3.4
120°-130°	196.6	5.7
130°-140°	209.1	6.0
140°-150°	194.4	5.6
150°-160°	156.3	4.5
160°-170°	100.7	2.9
170°-180°	34.7	1.0
0°-30°	838.1	24.2
0°-40°	1297.3	37.5
0°-60°	2028.3	58.7
0°-90°	2390.1	69.1
90°-120°	175.8	5.1
90°-150°	776.0	22.4
90°-180°	1068.0	30.9
0°-180°	3457.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1083	1083	1083	1083	1083	
5°	1210	1086	962	1086	1210	121
15°	1487	1025	713	1025	1487	410
25°	1239	917	573	917	1239	560
35°	674	753	475	753	674	439
45°	406	565	390	565	406	319
55°	286	386	302	386	286	256
65°	176	230	204	230	176	175
75°	87	109	103	109	87	93
85°	22	22	17	22	22	25
90°	7	0	7	0	7	4
95°	11	17	11	17	11	11
105°	20	80	20	80	20	21
115°	22	152	22	152	22	54
125°	225	214	225	214	225	195
135°	274	265	274	265	274	211
145°	312	308	312	308	312	195
155°	339	339	339	339	339	156
165°	356	357	356	357	356	101
175°	363	365	363	365	363	35
180°	364	364	364	364	364	



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1132.9	1133.2	1133.9	1128.5	1127.9	1127.9	1123.2	1119.2	1114.6	1108.2	1108.9
5°	1209.5	1214.1	1215.7	1210.7	1203.2	1202.4	1195.3	1183.7	1172.8	1164.1	1157.9
7.5°	1300.9	1302.7	1298.6	1292.0	1286.5	1276.5	1263.3	1250.4	1232.3	1215.8	1203.5
10°	1370.1	1372.6	1365.5	1356.0	1348.1	1336.4	1317.3	1297.7	1274.0	1251.1	1232.7
12.5°	1422.7	1428.9	1419.8	1418.5	1405.0	1389.0	1366.2	1356.3	1322.9	1291.0	1271.4
15°	1486.6	1486.2	1487.1	1479.2	1469.2	1466.6	1442.5	1416.3	1369.3	1350.5	1318.1
17.5°	1468.2	1474.5	1477.4	1477.3	1477.1	1475.5	1467.8	1451.2	1427.7	1397.3	1359.8
20°	1424.2	1432.6	1433.8	1443.4	1448.8	1455.9	1458.7	1454.2	1439.7	1414.2	1381.8
22.5°	1356.3	1358.6	1362.5	1377.4	1389.2	1406.9	1416.2	1431.6	1426.0	1413.6	1386.4
25°	1238.6	1234.4	1249.0	1256.5	1283.5	1311.8	1332.3	1354.7	1374.7	1386.7	1378.8
27.5°	1097.2	1091.0	1112.8	1132.7	1154.7	1185.4	1217.2	1254.7	1285.9	1324.9	1338.3
30°	978.0	981.8	1002.7	1023.9	1057.1	1100.4	1136.2	1177.5	1222.0	1265.7	1296.0
32.5°	849.5	864.0	877.1	909.6	938.9	987.2	1039.7	1091.2	1146.7	1196.4	1243.4
35°	674.3	690.9	709.2	733.0	774.1	822.0	873.2	942.6	1018.5	1086.3	1142.1
37.5°	567.5	564.8	575.4	592.5	625.9	664.5	723.4	792.1	881.3	961.0	1039.7
40°	503.6	501.9	509.4	525.2	550.7	578.9	630.6	690.9	773.7	871.1	964.7
42.5°	459.7	460.6	464.8	476.0	493.3	516.7	555.3	606.7	682.5	774.2	874.8
45°	406.2	409.1	413.7	419.1	429.1	448.3	469.9	506.5	566.5	643.0	742.1
47.5°	367.8	367.9	372.5	377.2	383.2	394.0	411.6	434.6	476.9	539.2	624.4
50°	347.1	344.2	347.6	351.2	357.5	365.0	376.7	398.3	426.6	477.0	548.1
52.5°	321.8	321.9	324.9	326.3	331.9	339.3	350.0	365.0	390.6	430.0	488.5
55°	285.5	287.6	289.3	291.7	296.8	302.1	310.5	320.5	340.5	370.0	413.3
57.5°	251.4	252.0	253.7	258.4	261.6	266.6	274.5	283.6	296.6	318.5	351.0
60°	228.0	228.0	231.4	233.5	237.7	242.6	248.9	257.6	269.3	287.1	313.4
62.5°	206.8	206.4	207.7	211.2	214.3	219.0	225.3	232.7	243.6	259.5	281.1
65°	175.6	174.8	177.3	178.1	181.5	186.1	191.0	198.9	207.7	219.3	238.5
67.5°	145.7	146.7	148.0	149.6	151.4	156.2	159.6	165.2	172.5	182.2	195.2
70°	129.0	129.0	129.0	130.3	132.7	135.3	138.6	143.2	150.3	158.6	170.2
72.5°	110.4	111.7	113.0	112.3	115.4	116.9	120.9	123.5	130.3	135.6	145.9
75°	86.6	86.6	86.6	88.6	89.9	91.2	93.7	96.1	99.5	106.2	111.5
77.5°	64.6	64.4	64.8	65.3	66.7	68.2	68.9	71.2	74.3	77.3	81.9
80°	50.0	50.8	51.2	52.0	52.0	52.8	53.2	56.2	58.3	60.3	63.3
82.5°	38.6	38.8	38.9	39.1	39.4	39.9	40.9	41.9	42.6	44.4	46.6
85°	22.5	22.1	22.1	22.9	22.5	22.5	23.3	24.1	24.1	24.5	25.8
87.5°	10.1	10.0	10.4	10.0	9.9	10.3	10.2	9.9	10.1	10.4	10.6
90°	7.1	7.0	6.8	6.8	6.7	6.4	6.1	5.9	5.5	5.3	4.8
92.5°	7.1	7.0	7.0	6.9	6.8	6.7	6.6	6.4	6.3	6.1	5.9
95°	11.3	11.4	11.4	11.5	11.6	11.4	11.2	10.8	10.6	10.3	9.9
97.5°	15.2	15.1	15.0	14.9	14.8	14.7	14.4	14.3	14.0	13.8	12.8
100°	17.7	17.5	17.4	17.3	17.2	16.9	16.5	16.0	15.5	15.0	14.0
102.5°	18.9	18.8	18.6	18.4	18.3	17.9	17.3	16.6	16.1	15.4	23.8
105°	20.1	19.8	19.6	19.3	19.1	18.7	18.0	17.4	16.7	16.1	32.0
107.5°	20.6	20.4	20.1	19.9	19.6	19.9	20.5	21.2	21.9	22.5	41.7
110°	20.8	20.6	20.4	20.1	19.9	22.7	28.5	34.4	40.3	46.1	63.0



TEST NUMBER: P331330-930
 CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	21.0	20.9	20.6	20.5	20.3	30.9	52.3	73.6	95.0	116.3	120.5
115°	21.6	25.8	30.1	34.2	38.5	54.1	81.3	108.4	135.5	162.7	161.2
117.5°	88.3	102.2	116.0	129.9	143.7	153.9	160.5	167.1	173.6	180.2	179.1
120°	160.8	168.7	176.6	184.5	192.4	196.0	195.3	194.6	194.0	193.2	192.2
122.5°	200.6	202.2	203.7	205.3	206.8	207.3	206.9	206.5	206.1	205.7	204.6
125°	225.3	225.2	225.0	224.9	224.7	224.4	224.0	223.6	223.1	222.7	221.6
127.5°	241.0	240.9	240.9	240.9	240.8	240.5	239.9	239.4	238.7	238.1	237.3
130°	250.7	250.8	250.8	250.9	250.9	250.6	250.0	249.3	248.7	248.1	247.4
132.5°	260.2	260.2	260.3	260.3	260.4	260.2	259.6	259.1	258.5	258.0	257.3
135°	273.9	274.0	274.1	274.3	274.3	274.1	273.5	273.0	272.4	271.8	271.3
137.5°	286.4	286.6	286.8	287.0	287.1	287.0	286.4	285.8	285.3	284.7	284.1
140°	294.2	294.5	294.8	295.1	295.4	295.2	294.7	294.2	293.7	293.1	292.5
142.5°	301.7	302.1	302.4	302.6	303.0	302.9	302.4	301.9	301.4	300.9	300.2
145°	312.3	312.7	313.0	313.2	313.6	313.5	313.1	312.7	312.3	311.9	310.9
147.5°	321.7	322.0	322.2	322.5	322.7	322.7	322.4	322.0	321.7	321.5	320.5
150°	327.4	327.7	328.0	328.3	328.6	328.6	328.2	327.8	327.5	327.2	326.2
152.5°	332.2	332.6	333.0	333.4	333.8	333.8	333.5	333.1	332.7	332.4	331.5
155°	339.0	339.5	340.0	340.4	340.9	341.0	340.6	340.2	339.9	339.5	338.8
157.5°	345.2	345.6	346.1	346.5	347.0	347.0	346.7	346.3	345.8	345.4	345.0
160°	348.8	349.2	349.6	350.0	350.4	350.4	350.1	349.8	349.4	349.0	348.7
162.5°	351.7	352.2	352.7	353.2	353.8	353.8	353.4	352.9	352.6	352.2	351.9
165°	356.1	356.5	356.9	357.3	357.8	357.8	357.3	356.9	356.5	356.1	356.0
167.5°	358.9	359.5	360.0	360.5	361.0	361.1	360.7	360.3	359.9	359.5	359.3
170°	360.6	361.2	361.7	362.2	362.7	362.8	362.4	362.0	361.6	361.2	361.0
172.5°	361.9	362.4	363.0	363.5	364.0	364.0	363.6	363.2	362.8	362.4	362.3
175°	363.0	363.5	364.2	364.8	365.3	365.4	365.0	364.6	364.2	363.8	363.7
177.5°	363.7	364.1	364.5	364.9	365.3	365.4	365.1	364.8	364.4	364.1	364.0
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1111.3	1108.6	1106.9	1100.9	1095.6	1090.3	1088.6	1089.2	1082.0	1075.0	1072.0
5°	1154.5	1146.2	1138.3	1127.1	1113.8	1099.2	1091.7	1085.8	1071.3	1055.5	1046.4
7.5°	1193.4	1181.5	1166.2	1145.0	1125.7	1102.8	1088.2	1075.3	1053.9	1031.7	1018.0
10°	1217.0	1200.7	1181.1	1155.4	1131.6	1103.8	1084.2	1064.6	1039.7	1013.0	996.4
12.5°	1237.3	1215.4	1196.1	1163.0	1135.0	1100.1	1076.8	1049.3	1023.0	991.4	975.1
15°	1285.6	1245.3	1208.6	1171.2	1136.6	1087.9	1062.2	1025.1	990.5	951.5	932.7
17.5°	1323.0	1277.7	1219.9	1172.3	1132.0	1078.2	1040.2	995.9	955.0	910.3	884.8
20°	1344.3	1292.2	1230.3	1173.7	1125.4	1063.8	1022.6	977.2	929.4	879.0	851.5
22.5°	1357.0	1302.3	1241.0	1168.7	1112.1	1052.1	1000.3	950.6	902.0	847.7	818.9
25°	1361.0	1311.0	1246.1	1164.5	1095.4	1027.6	965.2	916.9	858.2	807.4	765.4
27.5°	1341.2	1305.4	1242.9	1156.7	1076.2	996.9	927.3	872.6	810.7	755.5	713.3
30°	1316.9	1296.0	1235.3	1148.7	1060.9	975.6	898.9	837.0	775.3	719.6	676.3
32.5°	1279.2	1274.7	1221.3	1137.3	1044.6	948.6	869.4	806.7	738.4	683.6	642.4
35°	1205.3	1225.3	1191.6	1112.1	1013.8	910.2	824.5	752.9	682.2	629.7	591.0
37.5°	1106.3	1155.8	1147.0	1075.1	972.4	868.5	773.8	699.0	631.5	578.6	540.6
40°	1038.0	1101.2	1110.4	1046.8	943.1	836.2	735.8	661.4	595.6	547.3	509.0
42.5°	964.7	1038.7	1063.8	1012.8	911.1	802.2	701.9	624.7	559.6	512.7	478.7
45°	842.0	939.8	985.1	956.0	857.8	746.2	643.0	564.8	505.6	461.5	435.4
47.5°	727.2	834.1	895.0	884.8	798.4	687.9	586.0	510.9	453.3	418.1	394.6
50°	646.0	755.8	829.5	832.8	755.8	646.4	544.0	473.2	420.4	387.5	368.4
52.5°	575.4	680.2	760.6	778.2	708.2	603.1	506.4	435.9	389.4	359.1	342.0
55°	483.2	571.9	660.9	693.4	637.2	537.3	447.8	385.8	342.1	321.3	306.3
57.5°	401.7	475.6	557.9	593.8	559.1	473.6	389.7	335.9	300.4	282.2	270.7
60°	358.7	417.0	490.2	533.1	503.2	427.1	353.8	302.6	273.5	257.2	246.4
62.5°	318.8	370.4	432.4	471.6	455.3	383.4	317.8	272.6	247.4	232.2	224.5
65°	263.0	303.9	351.7	387.9	377.1	322.5	268.9	230.2	210.2	198.1	191.8
67.5°	216.6	246.1	279.2	311.0	302.2	263.6	220.5	190.4	175.5	165.1	161.3
70°	187.3	209.8	239.3	264.7	257.6	226.0	191.8	166.1	153.2	144.4	140.6
72.5°	159.3	177.8	200.3	221.1	216.3	190.0	161.6	142.1	132.2	124.1	121.0
75°	120.3	134.4	148.1	161.9	160.6	140.2	123.6	108.6	100.7	94.5	93.2
77.5°	88.8	96.7	106.1	114.2	111.9	100.3	87.2	78.7	72.8	68.6	68.0
80°	67.8	72.4	79.1	84.9	82.0	77.0	66.6	60.3	56.2	52.0	50.4
82.5°	49.2	53.8	57.8	60.9	58.7	54.1	47.6	43.4	40.8	38.1	37.3
85°	25.8	28.3	30.0	30.8	30.0	27.1	24.1	22.5	20.4	19.2	18.8
87.5°	10.8	10.8	10.7	11.3	10.1	9.9	8.5	7.3	7.2	6.9	6.4
90°	4.3	3.8	3.4	2.9	2.2	1.5	0.9	0.2	0.9	1.5	2.2
92.5°	5.6	5.4	5.2	5.1	5.1	5.2	5.3	5.3	5.3	5.2	5.1
95°	9.5	9.0	8.6	9.4	11.3	13.3	15.2	17.1	15.2	13.3	11.3
97.5°	11.8	10.9	9.9	12.2	17.7	23.1	28.5	34.0	28.5	23.1	17.7
100°	13.0	12.1	11.0	14.6	22.6	30.6	38.6	46.6	38.6	30.6	22.6
102.5°	32.1	40.4	48.8	53.8	55.5	57.2	58.9	60.6	58.9	57.2	55.5
105°	48.1	64.1	80.1	87.2	85.4	83.6	81.9	80.1	81.9	83.6	85.4
107.5°	60.9	80.1	99.2	108.1	106.7	105.3	103.9	102.4	103.9	105.3	106.7
110°	80.0	96.9	113.8	121.7	120.5	119.3	118.0	116.8	118.0	119.3	120.5



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	124.7	128.9	133.1	134.6	133.5	132.5	131.3	130.3	131.3	132.5	133.5
115°	159.7	158.2	156.8	155.6	154.6	153.6	152.5	151.6	152.5	153.6	154.6
117.5°	178.1	177.2	176.1	175.0	174.0	172.8	171.7	170.6	171.7	172.8	174.0
120°	191.1	190.0	189.0	188.0	187.2	186.3	185.4	184.5	185.4	186.3	187.2
122.5°	203.3	202.2	201.1	200.1	199.1	198.2	197.3	196.3	197.3	198.2	199.1
125°	220.5	219.4	218.3	217.4	216.6	215.8	215.1	214.3	215.1	215.8	216.6
127.5°	236.5	235.6	234.8	234.0	233.2	232.3	231.5	230.6	231.5	232.3	233.2
130°	246.8	246.1	245.5	244.7	243.8	242.8	241.9	240.9	241.9	242.8	243.8
132.5°	256.7	256.0	255.4	254.7	253.9	253.1	252.3	251.5	252.3	253.1	253.9
135°	270.8	270.2	269.7	269.0	268.0	267.1	266.1	265.2	266.1	267.1	268.0
137.5°	283.5	282.9	282.3	281.7	281.0	280.4	279.7	279.1	279.7	280.4	281.0
140°	291.9	291.2	290.6	290.0	289.5	289.0	288.6	288.1	288.6	289.0	289.5
142.5°	299.5	298.7	298.0	297.4	297.0	296.5	296.1	295.7	296.1	296.5	297.0
145°	309.9	308.8	307.9	307.4	307.4	307.5	307.6	307.6	307.6	307.5	307.4
147.5°	319.5	318.5	317.5	317.2	317.3	317.6	317.8	318.0	317.8	317.6	317.3
150°	325.3	324.3	323.4	323.1	323.5	323.9	324.3	324.7	324.3	323.9	323.5
152.5°	330.6	329.7	328.8	328.6	329.1	329.5	330.0	330.4	330.0	329.5	329.1
155°	338.1	337.5	336.7	336.6	337.1	337.7	338.2	338.8	338.2	337.7	337.1
157.5°	344.5	344.0	343.5	343.4	343.9	344.3	344.8	345.2	344.8	344.3	343.9
160°	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0	348.7	348.3	348.0
162.5°	351.6	351.2	351.0	351.0	351.3	351.7	352.0	352.4	352.0	351.7	351.3
165°	355.8	355.6	355.5	355.6	355.9	356.2	356.6	356.9	356.6	356.2	355.9
167.5°	359.1	359.0	358.8	358.9	359.2	359.6	360.0	360.3	360.0	359.6	359.2
170°	360.9	360.8	360.7	360.8	361.2	361.5	361.8	362.2	361.8	361.5	361.2
172.5°	362.2	362.1	361.9	362.1	362.4	362.7	363.1	363.5	363.1	362.7	362.4
175°	363.5	363.5	363.3	363.5	363.9	364.3	364.7	365.1	364.7	364.3	363.9
177.5°	364.0	363.9	363.9	364.0	364.4	364.7	365.0	365.3	365.0	364.7	364.4
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1068.6	1066.7	1059.6	1056.0	1049.9	1044.3	1040.6	1042.4	1043.7	1043.0	1042.0
5°	1038.0	1030.0	1018.0	1007.6	1000.1	986.3	980.6	977.6	975.2	972.2	969.3
7.5°	1001.5	989.0	971.8	956.9	942.9	925.9	916.2	910.3	904.3	897.7	891.9
10°	975.6	958.1	939.8	918.9	902.3	886.9	873.2	864.1	855.7	847.8	842.0
12.5°	948.3	928.1	905.5	877.0	858.7	836.7	834.5	818.4	805.4	800.5	793.7
15°	904.8	876.5	847.8	814.1	799.5	779.5	767.0	754.6	743.3	735.4	733.4
17.5°	855.4	818.8	790.3	766.1	742.2	721.7	710.2	700.2	691.0	680.4	679.0
20°	817.8	786.2	755.0	733.8	709.2	688.4	674.3	664.2	656.3	650.1	644.7
22.5°	782.2	747.5	719.0	695.8	671.6	654.8	643.6	634.0	627.4	620.4	615.4
25°	725.0	698.0	666.8	640.5	620.5	609.8	600.5	592.2	588.1	583.5	577.7
27.5°	675.0	644.9	615.7	595.4	577.9	568.3	561.7	556.1	552.2	549.5	546.3
30°	639.7	609.3	586.4	566.5	551.9	542.3	538.2	534.8	530.3	528.6	526.9
32.5°	605.8	578.4	558.8	541.4	527.6	521.3	517.5	514.5	510.9	509.2	505.9
35°	557.7	534.8	515.7	506.1	494.9	489.4	486.6	482.3	479.1	477.4	477.0
37.5°	512.5	492.6	480.0	467.7	463.0	459.7	455.7	452.8	451.8	451.6	451.2
40°	483.2	467.0	455.8	445.7	443.7	438.6	435.4	432.8	432.8	433.3	432.8
42.5°	456.6	442.0	432.1	423.5	421.0	418.0	414.7	414.5	415.2	416.6	415.2
45°	416.2	405.8	398.7	394.5	390.0	387.0	386.6	387.9	388.3	388.7	390.0
47.5°	379.0	372.2	365.7	361.2	359.1	358.7	358.2	360.4	362.3	363.1	365.0
50°	357.1	349.2	343.8	340.9	339.2	338.3	339.2	341.7	343.3	345.4	346.7
52.5°	332.5	326.9	323.1	320.9	320.2	320.7	320.9	323.8	326.4	327.1	327.8
55°	298.4	294.2	293.4	289.7	291.3	290.9	293.0	294.6	297.2	299.6	300.1
57.5°	264.5	261.1	258.9	259.2	259.7	261.5	263.3	266.2	268.9	271.5	271.7
60°	241.8	240.1	238.9	238.9	239.7	242.2	244.3	247.2	248.9	250.5	251.8
62.5°	221.2	219.5	218.3	218.9	221.1	222.6	225.0	226.6	228.2	229.9	230.5
65°	188.5	187.7	189.0	189.8	190.2	192.2	195.2	196.4	198.1	198.9	201.9
67.5°	158.5	158.7	158.5	159.6	162.1	162.6	165.3	168.2	168.5	170.2	172.0
70°	138.2	139.0	139.8	140.6	142.8	143.6	145.7	146.9	148.5	149.9	151.1
72.5°	119.5	119.7	120.5	120.3	122.1	123.9	125.7	126.9	128.6	130.2	131.4
75°	92.0	92.0	92.8	93.2	95.3	97.4	96.9	97.8	99.5	101.1	102.0
77.5°	67.2	66.3	67.2	67.6	68.2	70.0	70.4	71.5	73.4	72.8	73.8
80°	51.2	50.0	51.2	51.6	51.6	53.7	53.7	54.5	55.8	54.5	55.8
82.5°	36.5	36.0	36.9	36.9	37.6	37.7	38.4	38.6	39.8	39.2	39.8
85°	18.3	17.9	18.3	17.9	18.3	18.8	18.8	18.3	18.3	19.2	17.9
87.5°	6.2	6.0	5.8	5.9	5.6	5.4	5.1	5.1	5.2	4.6	4.6
90°	2.9	3.4	3.8	4.3	4.8	5.3	5.5	5.9	6.1	6.4	6.7
92.5°	5.1	5.2	5.4	5.6	5.9	6.1	6.3	6.4	6.6	6.7	6.8
95°	9.4	8.6	9.0	9.5	9.9	10.3	10.6	10.8	11.2	11.4	11.6
97.5°	12.2	9.9	10.9	11.8	12.8	13.8	14.0	14.3	14.4	14.7	14.8
100°	14.6	11.0	12.1	13.0	14.0	15.0	15.5	16.0	16.5	16.9	17.2
102.5°	53.8	48.8	40.4	32.1	23.8	15.4	16.1	16.6	17.3	17.9	18.3
105°	87.2	80.1	64.1	48.1	32.0	16.1	16.7	17.4	18.0	18.7	19.1
107.5°	108.1	99.2	80.1	60.9	41.7	22.5	21.9	21.2	20.5	19.9	19.6
110°	121.7	113.8	96.9	80.0	63.0	46.1	40.3	34.4	28.5	22.7	19.9



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	134.6	133.1	128.9	124.7	120.5	116.3	95.0	73.6	52.3	30.9	20.3
115°	155.6	156.8	158.2	159.7	161.2	162.7	135.5	108.4	81.3	54.1	38.5
117.5°	175.0	176.1	177.2	178.1	179.1	180.2	173.6	167.1	160.5	153.9	143.7
120°	188.0	189.0	190.0	191.1	192.2	193.2	194.0	194.6	195.3	196.0	192.4
122.5°	200.1	201.1	202.2	203.3	204.6	205.7	206.1	206.5	206.9	207.3	206.8
125°	217.4	218.3	219.4	220.5	221.6	222.7	223.1	223.6	224.0	224.4	224.7
127.5°	234.0	234.8	235.6	236.5	237.3	238.1	238.7	239.4	239.9	240.5	240.8
130°	244.7	245.5	246.1	246.8	247.4	248.1	248.7	249.3	250.0	250.6	250.9
132.5°	254.7	255.4	256.0	256.7	257.3	258.0	258.5	259.1	259.6	260.2	260.4
135°	269.0	269.7	270.2	270.8	271.3	271.8	272.4	273.0	273.5	274.1	274.3
137.5°	281.7	282.3	282.9	283.5	284.1	284.7	285.3	285.8	286.4	287.0	287.1
140°	290.0	290.6	291.2	291.9	292.5	293.1	293.7	294.2	294.7	295.2	295.4
142.5°	297.4	298.0	298.7	299.5	300.2	300.9	301.4	301.9	302.4	302.9	303.0
145°	307.4	307.9	308.8	309.9	310.9	311.9	312.3	312.7	313.1	313.5	313.6
147.5°	317.2	317.5	318.5	319.5	320.5	321.5	321.7	322.0	322.4	322.7	322.7
150°	323.1	323.4	324.3	325.3	326.2	327.2	327.5	327.8	328.2	328.6	328.6
152.5°	328.6	328.8	329.7	330.6	331.5	332.4	332.7	333.1	333.5	333.8	333.8
155°	336.6	336.7	337.5	338.1	338.8	339.5	339.9	340.2	340.6	341.0	340.9
157.5°	343.4	343.5	344.0	344.5	345.0	345.4	345.8	346.3	346.7	347.0	347.0
160°	347.6	347.6	348.0	348.3	348.7	349.0	349.4	349.8	350.1	350.4	350.4
162.5°	351.0	351.0	351.2	351.6	351.9	352.2	352.6	352.9	353.4	353.8	353.8
165°	355.6	355.5	355.6	355.8	356.0	356.1	356.5	356.9	357.3	357.8	357.8
167.5°	358.9	358.8	359.0	359.1	359.3	359.5	359.9	360.3	360.7	361.1	361.0
170°	360.8	360.7	360.8	360.9	361.0	361.2	361.6	362.0	362.4	362.8	362.7
172.5°	362.1	361.9	362.1	362.2	362.3	362.4	362.8	363.2	363.6	364.0	364.0
175°	363.5	363.3	363.5	363.5	363.7	363.8	364.2	364.6	365.0	365.4	365.3
177.5°	364.0	363.9	363.9	364.0	364.0	364.1	364.4	364.8	365.1	365.4	365.3
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1038.7	1038.0	1038.0	1035.0	1038.0	1038.0	1038.7	1042.0	1043.0	1043.7	1042.4
5°	963.5	962.2	960.2	962.2	960.2	962.2	963.5	969.3	972.2	975.2	977.6
7.5°	889.2	884.2	883.5	878.5	883.5	884.2	889.2	891.9	897.7	904.3	910.3
10°	834.9	831.5	831.1	823.2	831.1	831.5	834.9	842.0	847.8	855.7	864.1
12.5°	793.6	785.6	787.2	782.6	787.2	785.6	793.6	793.7	800.5	805.4	818.4
15°	722.1	722.1	720.4	713.4	720.4	722.1	722.1	733.4	735.4	743.3	754.6
17.5°	670.7	669.9	665.9	667.9	665.9	669.9	670.7	679.0	680.4	691.0	700.2
20°	640.1	637.6	632.6	632.6	632.6	637.6	640.1	644.7	650.1	656.3	664.2
22.5°	611.1	611.0	605.7	607.3	605.7	611.0	611.1	615.4	620.4	627.4	634.0
25°	577.2	574.0	571.4	572.7	571.4	574.0	577.2	577.7	583.5	588.1	592.2
27.5°	545.1	543.3	543.2	539.7	543.2	543.3	545.1	546.3	549.5	552.2	556.1
30°	526.5	522.4	523.2	521.1	523.2	522.4	526.5	526.9	528.6	530.3	534.8
32.5°	505.2	503.7	502.9	501.1	502.9	503.7	505.2	505.9	509.2	510.9	514.5
35°	476.1	476.5	474.5	475.3	474.5	476.5	476.1	477.0	477.4	479.1	482.3
37.5°	450.8	452.1	451.1	451.3	451.1	452.1	450.8	451.2	451.6	451.8	452.8
40°	434.1	434.1	434.1	435.4	434.1	434.1	434.1	432.8	433.3	432.8	432.8
42.5°	418.1	417.4	416.8	416.7	416.8	417.4	418.1	415.2	416.6	415.2	414.5
45°	390.8	392.1	392.5	390.4	392.5	392.1	390.8	390.0	388.7	388.3	387.9
47.5°	366.1	366.2	366.1	367.9	366.1	366.2	366.1	365.0	363.1	362.3	360.4
50°	348.8	348.0	348.8	348.0	348.8	348.0	348.8	346.7	345.4	343.3	341.7
52.5°	330.4	330.6	330.1	330.0	330.1	330.6	330.4	327.8	327.1	326.4	323.8
55°	301.7	302.6	302.1	302.1	302.1	302.6	301.7	300.1	299.6	297.2	294.6
57.5°	272.1	272.8	273.4	271.5	273.4	272.8	272.1	271.7	271.5	268.9	266.2
60°	251.4	253.5	253.1	252.3	253.1	253.5	251.4	251.8	250.5	248.9	247.2
62.5°	232.4	233.2	233.1	232.9	233.1	233.2	232.4	230.5	229.9	228.2	226.6
65°	203.1	203.9	202.7	203.9	202.7	203.9	203.1	201.9	198.9	198.1	196.4
67.5°	171.5	171.8	172.8	173.3	172.8	171.8	171.5	172.0	170.2	168.5	168.2
70°	151.9	151.5	152.7	154.0	152.7	151.5	151.9	151.1	149.9	148.5	146.9
72.5°	131.3	132.2	131.8	132.6	131.8	132.2	131.3	131.4	130.2	128.6	126.9
75°	101.1	102.4	102.0	103.2	102.0	102.4	101.1	102.0	101.1	99.5	97.8
77.5°	73.1	73.2	73.1	73.8	73.1	73.2	73.1	73.8	72.8	73.4	71.5
80°	55.8	55.0	54.1	55.8	54.1	55.0	55.8	55.8	54.5	55.8	54.5
82.5°	38.8	39.3	38.5	38.5	38.5	39.3	38.8	39.8	39.2	39.8	38.6
85°	17.9	17.4	16.6	16.6	16.6	17.4	17.9	17.9	19.2	18.3	18.3
87.5°	4.6	4.4	4.4	4.1	4.4	4.4	4.6	4.6	4.6	5.2	5.1
90°	6.8	6.8	7.0	7.1	7.0	6.8	6.8	6.7	6.4	6.1	5.9
92.5°	6.9	7.0	7.0	7.1	7.0	7.0	6.9	6.8	6.7	6.6	6.4
95°	11.5	11.4	11.4	11.3	11.4	11.4	11.5	11.6	11.4	11.2	10.8
97.5°	14.9	15.0	15.1	15.2	15.1	15.0	14.9	14.8	14.7	14.4	14.3
100°	17.3	17.4	17.5	17.7	17.5	17.4	17.3	17.2	16.9	16.5	16.0
102.5°	18.4	18.6	18.8	18.9	18.8	18.6	18.4	18.3	17.9	17.3	16.6
105°	19.3	19.6	19.8	20.1	19.8	19.6	19.3	19.1	18.7	18.0	17.4
107.5°	19.9	20.1	20.4	20.6	20.4	20.1	19.9	19.6	19.9	20.5	21.2
110°	20.1	20.4	20.6	20.8	20.6	20.4	20.1	19.9	22.7	28.5	34.4



TEST NUMBER: P331330-930
 CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.5	20.6	20.9	21.0	20.9	20.6	20.5	20.3	30.9	52.3	73.6
115°	34.2	30.1	25.8	21.6	25.8	30.1	34.2	38.5	54.1	81.3	108.4
117.5°	129.9	116.0	102.2	88.3	102.2	116.0	129.9	143.7	153.9	160.5	167.1
120°	184.5	176.6	168.7	160.8	168.7	176.6	184.5	192.4	196.0	195.3	194.6
122.5°	205.3	203.7	202.2	200.6	202.2	203.7	205.3	206.8	207.3	206.9	206.5
125°	224.9	225.0	225.2	225.3	225.2	225.0	224.9	224.7	224.4	224.0	223.6
127.5°	240.9	240.9	240.9	241.0	240.9	240.9	240.9	240.8	240.5	239.9	239.4
130°	250.9	250.8	250.8	250.7	250.8	250.8	250.9	250.9	250.6	250.0	249.3
132.5°	260.3	260.3	260.2	260.2	260.2	260.3	260.3	260.4	260.2	259.6	259.1
135°	274.3	274.1	274.0	273.9	274.0	274.1	274.3	274.3	274.1	273.5	273.0
137.5°	287.0	286.8	286.6	286.4	286.6	286.8	287.0	287.1	287.0	286.4	285.8
140°	295.1	294.8	294.5	294.2	294.5	294.8	295.1	295.4	295.2	294.7	294.2
142.5°	302.6	302.4	302.1	301.7	302.1	302.4	302.6	303.0	302.9	302.4	301.9
145°	313.2	313.0	312.7	312.3	312.7	313.0	313.2	313.6	313.5	313.1	312.7
147.5°	322.5	322.2	322.0	321.7	322.0	322.2	322.5	322.7	322.7	322.4	322.0
150°	328.3	328.0	327.7	327.4	327.7	328.0	328.3	328.6	328.6	328.2	327.8
152.5°	333.4	333.0	332.6	332.2	332.6	333.0	333.4	333.8	333.8	333.5	333.1
155°	340.4	340.0	339.5	339.0	339.5	340.0	340.4	340.9	341.0	340.6	340.2
157.5°	346.5	346.1	345.6	345.2	345.6	346.1	346.5	347.0	347.0	346.7	346.3
160°	350.0	349.6	349.2	348.8	349.2	349.6	350.0	350.4	350.4	350.1	349.8
162.5°	353.2	352.7	352.2	351.7	352.2	352.7	353.2	353.8	353.8	353.4	352.9
165°	357.3	356.9	356.5	356.1	356.5	356.9	357.3	357.8	357.8	357.3	356.9
167.5°	360.5	360.0	359.5	358.9	359.5	360.0	360.5	361.0	361.1	360.7	360.3
170°	362.2	361.7	361.2	360.6	361.2	361.7	362.2	362.7	362.8	362.4	362.0
172.5°	363.5	363.0	362.4	361.9	362.4	363.0	363.5	364.0	364.0	363.6	363.2
175°	364.8	364.2	363.5	363.0	363.5	364.2	364.8	365.3	365.4	365.0	364.6
177.5°	364.9	364.5	364.1	363.7	364.1	364.5	364.9	365.3	365.4	365.1	364.8
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1040.6	1044.3	1049.9	1056.0	1059.6	1066.7	1068.6	1072.0	1075.0	1082.0	1089.2
5°	980.6	986.3	1000.1	1007.6	1018.0	1030.0	1038.0	1046.4	1055.5	1071.3	1085.8
7.5°	916.2	925.9	942.9	956.9	971.8	989.0	1001.5	1018.0	1031.7	1053.9	1075.3
10°	873.2	886.9	902.3	918.9	939.8	958.1	975.6	996.4	1013.0	1039.7	1064.6
12.5°	834.5	836.7	858.7	877.0	905.5	928.1	948.3	975.1	991.4	1023.0	1049.3
15°	767.0	779.5	799.5	814.1	847.8	876.5	904.8	932.7	951.5	990.5	1025.1
17.5°	710.2	721.7	742.2	766.1	790.3	818.8	855.4	884.8	910.3	955.0	995.9
20°	674.3	688.4	709.2	733.8	755.0	786.2	817.8	851.5	879.0	929.4	977.2
22.5°	643.6	654.8	671.6	695.8	719.0	747.5	782.2	818.9	847.7	902.0	950.6
25°	600.5	609.8	620.5	640.5	666.8	698.0	725.0	765.4	807.4	858.2	916.9
27.5°	561.7	568.3	577.9	595.4	615.7	644.9	675.0	713.3	755.5	810.7	872.6
30°	538.2	542.3	551.9	566.5	586.4	609.3	639.7	676.3	719.6	775.3	837.0
32.5°	517.5	521.3	527.6	541.4	558.8	578.4	605.8	642.4	683.6	738.4	806.7
35°	486.6	489.4	494.9	506.1	515.7	534.8	557.7	591.0	629.7	682.2	752.9
37.5°	455.7	459.7	463.0	467.7	480.0	492.6	512.5	540.6	578.6	631.5	699.0
40°	435.4	438.6	443.7	445.7	455.8	467.0	483.2	509.0	547.3	595.6	661.4
42.5°	414.7	418.0	421.0	423.5	432.1	442.0	456.6	478.7	512.7	559.6	624.7
45°	386.6	387.0	390.0	394.5	398.7	405.8	416.2	435.4	461.5	505.6	564.8
47.5°	358.2	358.7	359.1	361.2	365.7	372.2	379.0	394.6	418.1	453.3	510.9
50°	339.2	338.3	339.2	340.9	343.8	349.2	357.1	368.4	387.5	420.4	473.2
52.5°	320.9	320.7	320.2	320.9	323.1	326.9	332.5	342.0	359.1	389.4	435.9
55°	293.0	290.9	291.3	289.7	293.4	294.2	298.4	306.3	321.3	342.1	385.8
57.5°	263.3	261.5	259.7	259.2	258.9	261.1	264.5	270.7	282.2	300.4	335.9
60°	244.3	242.2	239.7	238.9	238.9	240.1	241.8	246.4	257.2	273.5	302.6
62.5°	225.0	222.6	221.1	218.9	218.3	219.5	221.2	224.5	232.2	247.4	272.6
65°	195.2	192.2	190.2	189.8	189.0	187.7	188.5	191.8	198.1	210.2	230.2
67.5°	165.3	162.6	162.1	159.6	158.5	158.7	158.5	161.3	165.1	175.5	190.4
70°	145.7	143.6	142.8	140.6	139.8	139.0	138.2	140.6	144.4	153.2	166.1
72.5°	125.7	123.9	122.1	120.3	120.5	119.7	119.5	121.0	124.1	132.2	142.1
75°	96.9	97.4	95.3	93.2	92.8	92.0	92.0	93.2	94.5	100.7	108.6
77.5°	70.4	70.0	68.2	67.6	67.2	66.3	67.2	68.0	68.6	72.8	78.7
80°	53.7	53.7	51.6	51.6	51.2	50.0	51.2	50.4	52.0	56.2	60.3
82.5°	38.4	37.7	37.6	36.9	36.9	36.0	36.5	37.3	38.1	40.8	43.4
85°	18.8	18.8	18.3	17.9	18.3	17.9	18.3	18.8	19.2	20.4	22.5
87.5°	5.1	5.4	5.6	5.9	5.8	6.0	6.2	6.4	6.9	7.2	7.3
90°	5.5	5.3	4.8	4.3	3.8	3.4	2.9	2.2	1.5	0.9	0.2
92.5°	6.3	6.1	5.9	5.6	5.4	5.2	5.1	5.1	5.2	5.3	5.3
95°	10.6	10.3	9.9	9.5	9.0	8.6	9.4	11.3	13.3	15.2	17.1
97.5°	14.0	13.8	12.8	11.8	10.9	9.9	12.2	17.7	23.1	28.5	34.0
100°	15.5	15.0	14.0	13.0	12.1	11.0	14.6	22.6	30.6	38.6	46.6
102.5°	16.1	15.4	23.8	32.1	40.4	48.8	53.8	55.5	57.2	58.9	60.6
105°	16.7	16.1	32.0	48.1	64.1	80.1	87.2	85.4	83.6	81.9	80.1
107.5°	21.9	22.5	41.7	60.9	80.1	99.2	108.1	106.7	105.3	103.9	102.4
110°	40.3	46.1	63.0	80.0	96.9	113.8	121.7	120.5	119.3	118.0	116.8



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	95.0	116.3	120.5	124.7	128.9	133.1	134.6	133.5	132.5	131.3	130.3
115°	135.5	162.7	161.2	159.7	158.2	156.8	155.6	154.6	153.6	152.5	151.6
117.5°	173.6	180.2	179.1	178.1	177.2	176.1	175.0	174.0	172.8	171.7	170.6
120°	194.0	193.2	192.2	191.1	190.0	189.0	188.0	187.2	186.3	185.4	184.5
122.5°	206.1	205.7	204.6	203.3	202.2	201.1	200.1	199.1	198.2	197.3	196.3
125°	223.1	222.7	221.6	220.5	219.4	218.3	217.4	216.6	215.8	215.1	214.3
127.5°	238.7	238.1	237.3	236.5	235.6	234.8	234.0	233.2	232.3	231.5	230.6
130°	248.7	248.1	247.4	246.8	246.1	245.5	244.7	243.8	242.8	241.9	240.9
132.5°	258.5	258.0	257.3	256.7	256.0	255.4	254.7	253.9	253.1	252.3	251.5
135°	272.4	271.8	271.3	270.8	270.2	269.7	269.0	268.0	267.1	266.1	265.2
137.5°	285.3	284.7	284.1	283.5	282.9	282.3	281.7	281.0	280.4	279.7	279.1
140°	293.7	293.1	292.5	291.9	291.2	290.6	290.0	289.5	289.0	288.6	288.1
142.5°	301.4	300.9	300.2	299.5	298.7	298.0	297.4	297.0	296.5	296.1	295.7
145°	312.3	311.9	310.9	309.9	308.8	307.9	307.4	307.4	307.5	307.6	307.6
147.5°	321.7	321.5	320.5	319.5	318.5	317.5	317.2	317.3	317.6	317.8	318.0
150°	327.5	327.2	326.2	325.3	324.3	323.4	323.1	323.5	323.9	324.3	324.7
152.5°	332.7	332.4	331.5	330.6	329.7	328.8	328.6	329.1	329.5	330.0	330.4
155°	339.9	339.5	338.8	338.1	337.5	336.7	336.6	337.1	337.7	338.2	338.8
157.5°	345.8	345.4	345.0	344.5	344.0	343.5	343.4	343.9	344.3	344.8	345.2
160°	349.4	349.0	348.7	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0
162.5°	352.6	352.2	351.9	351.6	351.2	351.0	351.0	351.3	351.7	352.0	352.4
165°	356.5	356.1	356.0	355.8	355.6	355.5	355.6	355.9	356.2	356.6	356.9
167.5°	359.9	359.5	359.3	359.1	359.0	358.8	358.9	359.2	359.6	360.0	360.3
170°	361.6	361.2	361.0	360.9	360.8	360.7	360.8	361.2	361.5	361.8	362.2
172.5°	362.8	362.4	362.3	362.2	362.1	361.9	362.1	362.4	362.7	363.1	363.5
175°	364.2	363.8	363.7	363.5	363.5	363.3	363.5	363.9	364.3	364.7	365.1
177.5°	364.4	364.1	364.0	364.0	363.9	363.9	364.0	364.4	364.7	365.0	365.3
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1088.6	1090.3	1095.6	1100.9	1106.9	1108.6	1111.3	1108.9	1108.2	1114.6	1119.2
5°	1091.7	1099.2	1113.8	1127.1	1138.3	1146.2	1154.5	1157.9	1164.1	1172.8	1183.7
7.5°	1088.2	1102.8	1125.7	1145.0	1166.2	1181.5	1193.4	1203.5	1215.8	1232.3	1250.4
10°	1084.2	1103.8	1131.6	1155.4	1181.1	1200.7	1217.0	1232.7	1251.1	1274.0	1297.7
12.5°	1076.8	1100.1	1135.0	1163.0	1196.1	1215.4	1237.3	1271.4	1291.0	1322.9	1356.3
15°	1062.2	1087.9	1136.6	1171.2	1208.6	1245.3	1285.6	1318.1	1350.5	1369.3	1416.3
17.5°	1040.2	1078.2	1132.0	1172.3	1219.9	1277.7	1323.0	1359.8	1397.3	1427.7	1451.2
20°	1022.6	1063.8	1125.4	1173.7	1230.3	1292.2	1344.3	1381.8	1414.2	1439.7	1454.2
22.5°	1000.3	1052.1	1112.1	1168.7	1241.0	1302.3	1357.0	1386.4	1413.6	1426.0	1431.6
25°	965.2	1027.6	1095.4	1164.5	1246.1	1311.0	1361.0	1378.8	1386.7	1374.7	1354.7
27.5°	927.3	996.9	1076.2	1156.7	1242.9	1305.4	1341.2	1338.3	1324.9	1285.9	1254.7
30°	898.9	975.6	1060.9	1148.7	1235.3	1296.0	1316.9	1296.0	1265.7	1222.0	1177.5
32.5°	869.4	948.6	1044.6	1137.3	1221.3	1274.7	1279.2	1243.4	1196.4	1146.7	1091.2
35°	824.5	910.2	1013.8	1112.1	1191.6	1225.3	1205.3	1142.1	1086.3	1018.5	942.6
37.5°	773.8	868.5	972.4	1075.1	1147.0	1155.8	1106.3	1039.7	961.0	881.3	792.1
40°	735.8	836.2	943.1	1046.8	1110.4	1101.2	1038.0	964.7	871.1	773.7	690.9
42.5°	701.9	802.2	911.1	1012.8	1063.8	1038.7	964.7	874.8	774.2	682.5	606.7
45°	643.0	746.2	857.8	956.0	985.1	939.8	842.0	742.1	643.0	566.5	506.5
47.5°	586.0	687.9	798.4	884.8	895.0	834.1	727.2	624.4	539.2	476.9	434.6
50°	544.0	646.4	755.8	832.8	829.5	755.8	646.0	548.1	477.0	426.6	398.3
52.5°	506.4	603.1	708.2	778.2	760.6	680.2	575.4	488.5	430.0	390.6	365.0
55°	447.8	537.3	637.2	693.4	660.9	571.9	483.2	413.3	370.0	340.5	320.5
57.5°	389.7	473.6	559.1	593.8	557.9	475.6	401.7	351.0	318.5	296.6	283.6
60°	353.8	427.1	503.2	533.1	490.2	417.0	358.7	313.4	287.1	269.3	257.6
62.5°	317.8	383.4	455.3	471.6	432.4	370.4	318.8	281.1	259.5	243.6	232.7
65°	268.9	322.5	377.1	387.9	351.7	303.9	263.0	238.5	219.3	207.7	198.9
67.5°	220.5	263.6	302.2	311.0	279.2	246.1	216.6	195.2	182.2	172.5	165.2
70°	191.8	226.0	257.6	264.7	239.3	209.8	187.3	170.2	158.6	150.3	143.2
72.5°	161.6	190.0	216.3	221.1	200.3	177.8	159.3	145.9	135.6	130.3	123.5
75°	123.6	140.2	160.6	161.9	148.1	134.4	120.3	111.5	106.2	99.5	96.1
77.5°	87.2	100.3	111.9	114.2	106.1	96.7	88.8	81.9	77.3	74.3	71.2
80°	66.6	77.0	82.0	84.9	79.1	72.4	67.8	63.3	60.3	58.3	56.2
82.5°	47.6	54.1	58.7	60.9	57.8	53.8	49.2	46.6	44.4	42.6	41.9
85°	24.1	27.1	30.0	30.8	30.0	28.3	25.8	25.8	24.5	24.1	24.1
87.5°	8.5	9.9	10.1	11.3	10.7	10.8	10.8	10.6	10.4	10.1	9.9
90°	0.9	1.5	2.2	2.9	3.4	3.8	4.3	4.8	5.3	5.5	5.9
92.5°	5.3	5.2	5.1	5.1	5.2	5.4	5.6	5.9	6.1	6.3	6.4
95°	15.2	13.3	11.3	9.4	8.6	9.0	9.5	9.9	10.3	10.6	10.8
97.5°	28.5	23.1	17.7	12.2	9.9	10.9	11.8	12.8	13.8	14.0	14.3
100°	38.6	30.6	22.6	14.6	11.0	12.1	13.0	14.0	15.0	15.5	16.0
102.5°	58.9	57.2	55.5	53.8	48.8	40.4	32.1	23.8	15.4	16.1	16.6
105°	81.9	83.6	85.4	87.2	80.1	64.1	48.1	32.0	16.1	16.7	17.4
107.5°	103.9	105.3	106.7	108.1	99.2	80.1	60.9	41.7	22.5	21.9	21.2
110°	118.0	119.3	120.5	121.7	113.8	96.9	80.0	63.0	46.1	40.3	34.4



TEST NUMBER: P331330-930
 CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	131.3	132.5	133.5	134.6	133.1	128.9	124.7	120.5	116.3	95.0	73.6
115°	152.5	153.6	154.6	155.6	156.8	158.2	159.7	161.2	162.7	135.5	108.4
117.5°	171.7	172.8	174.0	175.0	176.1	177.2	178.1	179.1	180.2	173.6	167.1
120°	185.4	186.3	187.2	188.0	189.0	190.0	191.1	192.2	193.2	194.0	194.6
122.5°	197.3	198.2	199.1	200.1	201.1	202.2	203.3	204.6	205.7	206.1	206.5
125°	215.1	215.8	216.6	217.4	218.3	219.4	220.5	221.6	222.7	223.1	223.6
127.5°	231.5	232.3	233.2	234.0	234.8	235.6	236.5	237.3	238.1	238.7	239.4
130°	241.9	242.8	243.8	244.7	245.5	246.1	246.8	247.4	248.1	248.7	249.3
132.5°	252.3	253.1	253.9	254.7	255.4	256.0	256.7	257.3	258.0	258.5	259.1
135°	266.1	267.1	268.0	269.0	269.7	270.2	270.8	271.3	271.8	272.4	273.0
137.5°	279.7	280.4	281.0	281.7	282.3	282.9	283.5	284.1	284.7	285.3	285.8
140°	288.6	289.0	289.5	290.0	290.6	291.2	291.9	292.5	293.1	293.7	294.2
142.5°	296.1	296.5	297.0	297.4	298.0	298.7	299.5	300.2	300.9	301.4	301.9
145°	307.6	307.5	307.4	307.4	307.9	308.8	309.9	310.9	311.9	312.3	312.7
147.5°	317.8	317.6	317.3	317.2	317.5	318.5	319.5	320.5	321.5	321.7	322.0
150°	324.3	323.9	323.5	323.1	323.4	324.3	325.3	326.2	327.2	327.5	327.8
152.5°	330.0	329.5	329.1	328.6	328.8	329.7	330.6	331.5	332.4	332.7	333.1
155°	338.2	337.7	337.1	336.6	336.7	337.5	338.1	338.8	339.5	339.9	340.2
157.5°	344.8	344.3	343.9	343.4	343.5	344.0	344.5	345.0	345.4	345.8	346.3
160°	348.7	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0	349.4	349.8
162.5°	352.0	351.7	351.3	351.0	351.0	351.2	351.6	351.9	352.2	352.6	352.9
165°	356.6	356.2	355.9	355.6	355.5	355.6	355.8	356.0	356.1	356.5	356.9
167.5°	360.0	359.6	359.2	358.9	358.8	359.0	359.1	359.3	359.5	359.9	360.3
170°	361.8	361.5	361.2	360.8	360.7	360.8	360.9	361.0	361.2	361.6	362.0
172.5°	363.1	362.7	362.4	362.1	361.9	362.1	362.2	362.3	362.4	362.8	363.2
175°	364.7	364.3	363.9	363.5	363.3	363.5	363.5	363.7	363.8	364.2	364.6
177.5°	365.0	364.7	364.4	364.0	363.9	363.9	364.0	364.0	364.1	364.4	364.8
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1123.2	1127.9	1127.9	1128.5	1133.9	1133.2	1132.9
5°	1195.3	1202.4	1203.2	1210.7	1215.7	1214.1	1209.5
7.5°	1263.3	1276.5	1286.5	1292.0	1298.6	1302.7	1300.9
10°	1317.3	1336.4	1348.1	1356.0	1365.5	1372.6	1370.1
12.5°	1366.2	1389.0	1405.0	1418.5	1419.8	1428.9	1422.7
15°	1442.5	1466.6	1469.2	1479.2	1487.1	1486.2	1486.6
17.5°	1467.8	1475.5	1477.1	1477.3	1477.4	1474.5	1468.2
20°	1458.7	1455.9	1448.8	1443.4	1433.8	1432.6	1424.2
22.5°	1416.2	1406.9	1389.2	1377.4	1362.5	1358.6	1356.3
25°	1332.3	1311.8	1283.5	1256.5	1249.0	1234.4	1238.6
27.5°	1217.2	1185.4	1154.7	1132.7	1112.8	1091.0	1097.2
30°	1136.2	1100.4	1057.1	1023.9	1002.7	981.8	978.0
32.5°	1039.7	987.2	938.9	909.6	877.1	864.0	849.5
35°	873.2	822.0	774.1	733.0	709.2	690.9	674.3
37.5°	723.4	664.5	625.9	592.5	575.4	564.8	567.5
40°	630.6	578.9	550.7	525.2	509.4	501.9	503.6
42.5°	555.3	516.7	493.3	476.0	464.8	460.6	459.7
45°	469.9	448.3	429.1	419.1	413.7	409.1	406.2
47.5°	411.6	394.0	383.2	377.2	372.5	367.9	367.8
50°	376.7	365.0	357.5	351.2	347.6	344.2	347.1
52.5°	350.0	339.3	331.9	326.3	324.9	321.9	321.8
55°	310.5	302.1	296.8	291.7	289.3	287.6	285.5
57.5°	274.5	266.6	261.6	258.4	253.7	252.0	251.4
60°	248.9	242.6	237.7	233.5	231.4	228.0	228.0
62.5°	225.3	219.0	214.3	211.2	207.7	206.4	206.8
65°	191.0	186.1	181.5	178.1	177.3	174.8	175.6
67.5°	159.6	156.2	151.4	149.6	148.0	146.7	145.7
70°	138.6	135.3	132.7	130.3	129.0	129.0	129.0
72.5°	120.9	116.9	115.4	112.3	113.0	111.7	110.4
75°	93.7	91.2	89.9	88.6	86.6	86.6	86.6
77.5°	68.9	68.2	66.7	65.3	64.8	64.4	64.6
80°	53.2	52.8	52.0	52.0	51.2	50.8	50.0
82.5°	40.9	39.9	39.4	39.1	38.9	38.8	38.6
85°	23.3	22.5	22.5	22.9	22.1	22.1	22.5
87.5°	10.2	10.3	9.9	10.0	10.4	10.0	10.1
90°	6.1	6.4	6.7	6.8	6.8	7.0	7.1
92.5°	6.6	6.7	6.8	6.9	7.0	7.0	7.1
95°	11.2	11.4	11.6	11.5	11.4	11.4	11.3
97.5°	14.4	14.7	14.8	14.9	15.0	15.1	15.2
100°	16.5	16.9	17.2	17.3	17.4	17.5	17.7
102.5°	17.3	17.9	18.3	18.4	18.6	18.8	18.9
105°	18.0	18.7	19.1	19.3	19.6	19.8	20.1
107.5°	20.5	19.9	19.6	19.9	20.1	20.4	20.6
110°	28.5	22.7	19.9	20.1	20.4	20.6	20.8



TEST NUMBER: P331330-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	52.3	30.9	20.3	20.5	20.6	20.9	21.0
115°	81.3	54.1	38.5	34.2	30.1	25.8	21.6
117.5°	160.5	153.9	143.7	129.9	116.0	102.2	88.3
120°	195.3	196.0	192.4	184.5	176.6	168.7	160.8
122.5°	206.9	207.3	206.8	205.3	203.7	202.2	200.6
125°	224.0	224.4	224.7	224.9	225.0	225.2	225.3
127.5°	239.9	240.5	240.8	240.9	240.9	240.9	241.0
130°	250.0	250.6	250.9	250.9	250.8	250.8	250.7
132.5°	259.6	260.2	260.4	260.3	260.3	260.2	260.2
135°	273.5	274.1	274.3	274.3	274.1	274.0	273.9
137.5°	286.4	287.0	287.1	287.0	286.8	286.6	286.4
140°	294.7	295.2	295.4	295.1	294.8	294.5	294.2
142.5°	302.4	302.9	303.0	302.6	302.4	302.1	301.7
145°	313.1	313.5	313.6	313.2	313.0	312.7	312.3
147.5°	322.4	322.7	322.7	322.5	322.2	322.0	321.7
150°	328.2	328.6	328.6	328.3	328.0	327.7	327.4
152.5°	333.5	333.8	333.8	333.4	333.0	332.6	332.2
155°	340.6	341.0	340.9	340.4	340.0	339.5	339.0
157.5°	346.7	347.0	347.0	346.5	346.1	345.6	345.2
160°	350.1	350.4	350.4	350.0	349.6	349.2	348.8
162.5°	353.4	353.8	353.8	353.2	352.7	352.2	351.7
165°	357.3	357.8	357.8	357.3	356.9	356.5	356.1
167.5°	360.7	361.1	361.0	360.5	360.0	359.5	358.9
170°	362.4	362.8	362.7	362.2	361.7	361.2	360.6
172.5°	363.6	364.0	364.0	363.5	363.0	362.4	361.9
175°	365.0	365.4	365.3	364.8	364.2	363.5	363.0
177.5°	365.1	365.4	365.3	364.9	364.5	364.1	363.7
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3

(END OF REPORT)