

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: P331332-930

Luminaire Tested: **SA2XXDIP-C675D330U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331332-930
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-C675D330U930-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

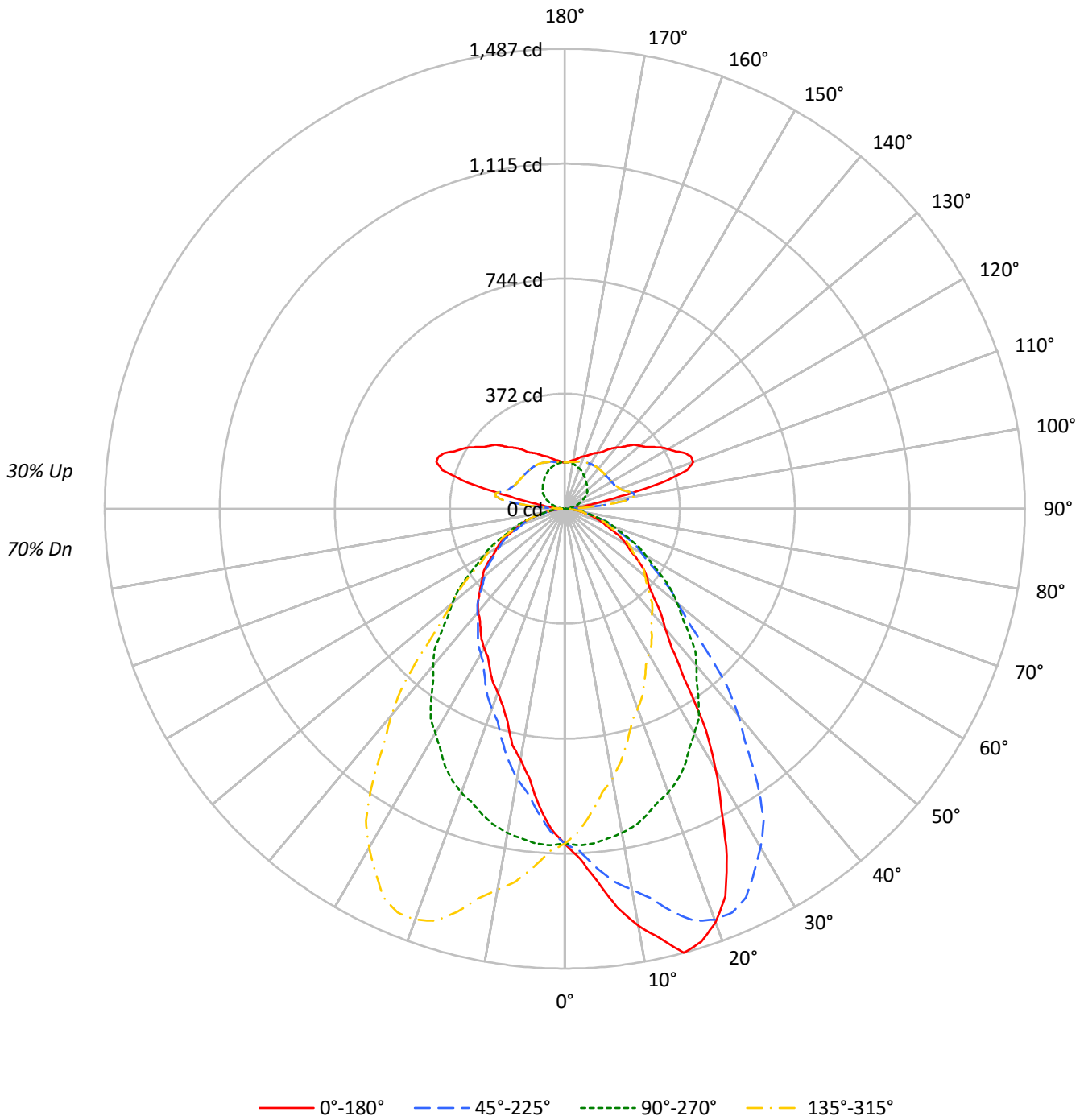
Lumens per Lamp: N/A
Luminaire Lumens: 3432.9 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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	94	94	94	84	84	84	74	74	74	74	74	74	70	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	65	64	64	64	64	60	
2	94	87	81	76	89	83	77	73	74	70	66	67	63	61	59	57	55	55	55	55	51	
3	86	77	70	64	82	73	67	62	66	61	57	59	55	52	53	50	48	48	48	48	44	
4	79	69	61	55	75	65	58	53	59	54	49	53	49	45	48	45	42	42	42	42	39	
5	73	62	54	48	69	59	52	46	53	47	43	48	44	40	44	40	37	37	37	37	34	
6	68	56	48	42	64	53	46	41	49	42	38	44	39	35	40	36	33	33	33	33	30	
7	63	51	43	37	60	49	41	36	44	38	34	40	35	32	37	33	29	29	29	29	27	
8	59	46	39	33	56	44	37	32	41	35	30	37	32	28	34	30	27	27	27	27	24	
9	55	43	35	30	52	41	34	29	37	32	27	34	29	26	31	27	24	24	24	24	22	
10	51	39	32	27	49	38	31	26	35	29	25	32	27	24	29	25	22	22	22	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: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	3.0
10°-20°	299.8	8.7
20°-30°	435.1	12.7
30°-40°	459.2	13.4
40°-50°	406.6	11.8
50°-60°	324.5	9.5
60°-70°	220.5	6.4
70°-80°	113.1	3.3
80°-90°	28.6	0.8
90°-100°	59.9	1.7
100°-110°	203.2	5.9
110°-120°	215.9	6.3
120°-130°	177.7	5.2
130°-140°	142.7	4.2
140°-150°	107.9	3.1
150°-160°	75.8	2.2
160°-170°	44.6	1.3
170°-180°	14.5	0.4
0°-30°	838.1	24.4
0°-40°	1297.3	37.8
0°-60°	2028.3	59.1
0°-90°	2390.5	69.6
90°-120°	479.1	14.0
90°-150°	907.4	26.4
90°-180°	1042.0	30.4
0°-180°	3432.9	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°	10	0	10	0	10	6
95°	33	10	33	10	33	43
105°	325	35	325	35	325	314
115°	427	62	427	62	427	418
125°	347	86	347	86	347	313
135°	287	101	287	101	287	223
145°	229	116	229	116	229	146
155°	193	132	193	132	193	90
165°	169	144	169	144	169	48
175°	152	150	152	150	152	15
180°	150	150	150	150	150	



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

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°	10.6	10.6	10.9	10.6	10.6	10.8	10.7	10.5	10.9	11.3	11.6
90°	9.5	9.5	9.5	9.5	9.5	9.2	8.6	9.2	9.5	9.8	9.5
92.5°	16.0	16.4	16.2	17.1	17.4	19.2	21.5	25.1	31.6	37.4	36.9
95°	32.9	32.5	33.4	35.7	39.5	45.8	57.9	75.5	98.8	112.9	100.0
97.5°	64.7	67.1	71.3	78.4	92.1	112.9	144.1	176.1	202.2	192.7	145.2
100°	103.1	108.4	116.7	129.1	153.0	187.8	227.3	263.0	269.0	227.6	156.7
102.5°	181.5	188.5	198.9	220.0	246.1	283.0	311.9	319.9	293.9	228.7	152.3
105°	324.7	328.6	341.0	358.9	376.8	386.3	382.5	350.0	290.1	213.4	143.7
107.5°	414.7	420.0	422.6	423.5	421.3	407.3	377.4	328.3	264.8	197.1	139.5
110°	441.9	442.2	439.6	434.1	421.8	398.1	361.3	309.7	248.9	189.2	138.6



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	441.4	439.9	435.0	425.8	408.6	381.5	342.1	292.6	237.8	184.2	138.8
115°	427.2	424.6	417.1	403.9	383.4	353.8	316.0	271.7	224.1	178.6	140.0
117.5°	401.8	399.6	391.8	377.7	356.9	329.1	294.8	255.8	215.5	175.9	142.1
120°	385.5	382.5	374.2	360.7	340.5	314.3	283.7	248.0	210.8	174.3	143.5
122.5°	368.4	366.0	358.6	345.2	327.1	303.5	274.5	241.8	206.9	173.3	145.0
125°	346.6	344.2	337.0	326.1	309.4	287.8	262.4	232.8	201.4	171.7	147.5
127.5°	327.4	325.5	319.4	309.1	294.5	274.6	250.7	223.8	196.2	170.7	149.9
130°	316.6	314.3	308.5	298.7	284.6	265.6	242.9	218.1	192.7	170.2	151.8
132.5°	305.3	303.2	297.9	288.1	274.3	256.4	235.5	212.5	190.0	170.0	153.7
135°	287.2	286.1	280.9	271.3	258.9	242.9	223.8	204.8	186.1	169.7	155.9
137.5°	269.5	267.7	263.2	255.0	243.7	229.7	214.6	198.7	183.4	169.6	157.8
140°	257.2	255.5	251.2	243.7	234.5	221.8	208.6	194.7	181.7	169.4	158.7
142.5°	245.0	244.7	240.8	234.0	225.3	214.7	203.3	191.5	180.2	169.4	159.4
145°	229.3	228.4	225.6	220.6	213.8	205.4	196.5	186.9	178.1	168.8	160.1
147.5°	216.1	215.6	213.6	209.7	204.0	197.9	190.9	183.4	175.9	167.8	160.4
150°	208.3	208.0	206.3	202.8	198.4	193.3	187.3	180.9	174.0	167.1	160.1
152.5°	201.6	201.5	200.2	197.3	193.9	189.4	184.3	178.4	172.4	165.9	159.7
155°	192.7	193.3	192.2	190.1	186.9	183.8	179.4	174.9	169.4	163.9	159.0
157.5°	185.2	185.2	184.7	183.0	180.8	178.2	174.6	170.8	166.6	161.8	157.7
160°	180.3	180.3	180.0	178.6	176.6	174.6	171.4	168.2	164.4	160.5	157.0
162.5°	175.7	175.9	175.7	174.7	172.7	171.1	168.4	165.7	162.7	159.3	156.3
165°	169.1	169.4	169.4	168.2	167.1	165.9	163.9	161.9	159.6	157.0	155.0
167.5°	163.0	163.3	163.4	162.7	162.2	161.2	159.8	158.2	156.6	155.0	153.7
170°	159.3	159.9	160.1	159.3	159.0	158.4	157.3	156.5	155.0	153.8	153.0
172.5°	156.3	156.6	156.9	156.5	156.2	155.9	155.0	154.3	153.4	152.5	152.1
175°	152.4	153.0	153.3	153.0	153.0	152.7	152.4	152.1	151.2	150.9	150.7
177.5°	150.0	150.5	150.7	150.7	150.7	150.7	150.5	150.5	150.0	149.8	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

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°	11.6	11.2	10.8	11.3	10.2	10.1	8.6	7.4	7.3	7.1	6.6
90°	7.7	5.8	4.3	3.4	2.9	2.3	1.1	0.3	1.1	2.3	2.9
92.5°	28.8	19.6	13.0	10.4	8.4	7.2	5.1	3.5	5.1	7.2	8.4
95°	66.5	41.5	28.2	21.3	16.7	14.1	11.3	10.1	11.3	14.1	16.7
97.5°	89.7	54.7	38.1	30.2	24.9	21.0	17.9	16.4	17.9	21.0	24.9
100°	94.5	59.4	44.1	36.0	30.2	25.6	23.1	22.2	23.1	25.6	30.2
102.5°	94.7	63.5	49.4	41.3	35.3	30.7	28.1	27.5	28.1	30.7	35.3
105°	96.2	70.6	57.1	49.0	42.6	38.3	36.3	35.1	36.3	38.3	42.6
107.5°	100.2	77.9	64.7	56.6	50.3	46.3	44.4	43.5	44.4	46.3	50.3
110°	103.4	82.7	70.0	61.6	55.6	51.9	50.1	49.0	50.1	51.9	55.6



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	106.9	87.3	75.1	66.4	60.7	57.2	55.2	54.1	55.2	57.2	60.7
115°	112.0	94.5	82.1	74.4	68.6	65.1	63.3	62.0	63.3	65.1	68.6
117.5°	117.6	101.1	89.7	81.6	76.1	73.0	71.3	70.1	71.3	73.0	76.1
120°	121.3	105.7	94.5	86.4	80.6	78.1	76.3	75.2	76.3	78.1	80.6
122.5°	124.5	110.1	99.5	91.2	85.5	82.7	81.0	80.1	81.0	82.7	85.5
125°	129.6	116.7	106.3	98.2	92.5	89.0	87.3	86.4	87.3	89.0	92.5
127.5°	134.4	122.8	112.7	104.4	98.9	95.1	92.6	91.5	92.6	95.1	98.9
130°	137.4	126.5	116.3	108.4	102.6	98.5	95.6	94.5	95.6	98.5	102.6
132.5°	140.4	129.7	120.1	112.0	106.0	101.7	98.7	97.3	98.7	101.7	106.0
135°	144.3	134.3	125.0	117.0	110.3	106.0	102.6	101.4	102.6	106.0	110.3
137.5°	147.3	137.9	128.8	121.3	114.8	110.1	106.7	105.3	106.7	110.1	114.8
140°	149.0	140.0	131.3	123.8	117.6	112.9	109.5	108.4	109.5	112.9	117.6
142.5°	150.3	141.6	133.2	126.2	120.1	115.4	112.3	111.3	112.3	115.4	120.1
145°	152.1	144.1	136.2	130.0	124.2	119.8	117.0	115.8	117.0	119.8	124.2
147.5°	153.1	146.0	138.7	133.1	128.2	124.3	121.5	120.7	121.5	124.3	128.2
150°	153.5	146.9	140.3	135.1	130.8	127.0	124.7	123.8	124.7	127.0	130.8
152.5°	153.8	147.8	141.9	137.2	133.1	129.8	127.5	127.1	127.5	129.8	133.1
155°	154.1	149.2	144.3	140.0	136.8	133.6	131.9	131.7	131.9	133.6	136.8
157.5°	154.1	150.2	146.0	142.4	139.9	137.1	135.7	135.4	135.7	137.1	139.9
160°	154.1	150.7	147.2	144.1	141.7	139.4	138.3	137.9	138.3	139.4	141.7
162.5°	153.8	150.9	147.9	145.4	143.3	141.5	140.3	140.6	140.3	141.5	143.3
165°	153.3	151.2	148.6	146.9	145.4	143.7	143.2	143.5	143.2	143.7	145.4
167.5°	152.9	151.2	149.3	148.2	147.2	146.0	145.5	145.9	145.5	146.0	147.2
170°	152.4	150.9	149.5	148.6	148.1	147.2	146.9	147.5	146.9	147.2	148.1
172.5°	151.7	150.7	149.8	149.1	148.8	147.9	148.1	148.4	148.1	147.9	148.8
175°	150.9	150.3	149.8	149.5	149.5	149.0	149.2	149.5	149.2	149.0	149.5
177.5°	150.5	150.0	149.8	149.8	149.8	149.4	149.5	150.0	149.5	149.4	149.8
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

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°	6.4	6.2	6.1	6.5	6.5	6.3	5.9	5.9	5.7	5.1	5.2
90°	3.4	4.3	5.8	7.7	9.5	9.8	9.5	9.2	8.6	9.2	9.5
92.5°	10.4	13.0	19.6	28.8	36.9	37.4	31.6	25.1	21.5	19.2	17.4
95°	21.3	28.2	41.5	66.5	100.0	112.9	98.8	75.5	57.9	45.8	39.5
97.5°	30.2	38.1	54.7	89.7	145.2	192.7	202.2	176.1	144.1	112.9	92.1
100°	36.0	44.1	59.4	94.5	156.7	227.6	269.0	263.0	227.3	187.8	153.0
102.5°	41.3	49.4	63.5	94.7	152.3	228.7	293.9	319.9	311.9	283.0	246.1
105°	49.0	57.1	70.6	96.2	143.7	213.4	290.1	350.0	382.5	386.3	376.8
107.5°	56.6	64.7	77.9	100.2	139.5	197.1	264.8	328.3	377.4	407.3	421.3
110°	61.6	70.0	82.7	103.4	138.6	189.2	248.9	309.7	361.3	398.1	421.8



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	66.4	75.1	87.3	106.9	138.8	184.2	237.8	292.6	342.1	381.5	408.6
115°	74.4	82.1	94.5	112.0	140.0	178.6	224.1	271.7	316.0	353.8	383.4
117.5°	81.6	89.7	101.1	117.6	142.1	175.9	215.5	255.8	294.8	329.1	356.9
120°	86.4	94.5	105.7	121.3	143.5	174.3	210.8	248.0	283.7	314.3	340.5
122.5°	91.2	99.5	110.1	124.5	145.0	173.3	206.9	241.8	274.5	303.5	327.1
125°	98.2	106.3	116.7	129.6	147.5	171.7	201.4	232.8	262.4	287.8	309.4
127.5°	104.4	112.7	122.8	134.4	149.9	170.7	196.2	223.8	250.7	274.6	294.5
130°	108.4	116.3	126.5	137.4	151.8	170.2	192.7	218.1	242.9	265.6	284.6
132.5°	112.0	120.1	129.7	140.4	153.7	170.0	190.0	212.5	235.5	256.4	274.3
135°	117.0	125.0	134.3	144.3	155.9	169.7	186.1	204.8	223.8	242.9	258.9
137.5°	121.3	128.8	137.9	147.3	157.8	169.6	183.4	198.7	214.6	229.7	243.7
140°	123.8	131.3	140.0	149.0	158.7	169.4	181.7	194.7	208.6	221.8	234.5
142.5°	126.2	133.2	141.6	150.3	159.4	169.4	180.2	191.5	203.3	214.7	225.3
145°	130.0	136.2	144.1	152.1	160.1	168.8	178.1	186.9	196.5	205.4	213.8
147.5°	133.1	138.7	146.0	153.1	160.4	167.8	175.9	183.4	190.9	197.9	204.0
150°	135.1	140.3	146.9	153.5	160.1	167.1	174.0	180.9	187.3	193.3	198.4
152.5°	137.2	141.9	147.8	153.8	159.7	165.9	172.4	178.4	184.3	189.4	193.9
155°	140.0	144.3	149.2	154.1	159.0	163.9	169.4	174.9	179.4	183.8	186.9
157.5°	142.4	146.0	150.2	154.1	157.7	161.8	166.6	170.8	174.6	178.2	180.8
160°	144.1	147.2	150.7	154.1	157.0	160.5	164.4	168.2	171.4	174.6	176.6
162.5°	145.4	147.9	150.9	153.8	156.3	159.3	162.7	165.7	168.4	171.1	172.7
165°	146.9	148.6	151.2	153.3	155.0	157.0	159.6	161.9	163.9	165.9	167.1
167.5°	148.2	149.3	151.2	152.9	153.7	155.0	156.6	158.2	159.8	161.2	162.2
170°	148.6	149.5	150.9	152.4	153.0	153.8	155.0	156.5	157.3	158.4	159.0
172.5°	149.1	149.8	150.7	151.7	152.1	152.5	153.4	154.3	155.0	155.9	156.2
175°	149.5	149.8	150.3	150.9	150.7	150.9	151.2	152.1	152.4	152.7	153.0
177.5°	149.8	149.8	150.0	150.5	150.0	149.8	150.0	150.5	150.5	150.7	150.7
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

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°	5.2	4.9	4.9	4.6	4.9	4.9	5.2	5.2	5.1	5.7	5.9
90°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.2	8.6	9.2
92.5°	17.1	16.2	16.4	16.0	16.4	16.2	17.1	17.4	19.2	21.5	25.1
95°	35.7	33.4	32.5	32.9	32.5	33.4	35.7	39.5	45.8	57.9	75.5
97.5°	78.4	71.3	67.1	64.7	67.1	71.3	78.4	92.1	112.9	144.1	176.1
100°	129.1	116.7	108.4	103.1	108.4	116.7	129.1	153.0	187.8	227.3	263.0
102.5°	220.0	198.9	188.5	181.5	188.5	198.9	220.0	246.1	283.0	311.9	319.9
105°	358.9	341.0	328.6	324.7	328.6	341.0	358.9	376.8	386.3	382.5	350.0
107.5°	423.5	422.6	420.0	414.7	420.0	422.6	423.5	421.3	407.3	377.4	328.3
110°	434.1	439.6	442.2	441.9	442.2	439.6	434.1	421.8	398.1	361.3	309.7



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	425.8	435.0	439.9	441.4	439.9	435.0	425.8	408.6	381.5	342.1	292.6
115°	403.9	417.1	424.6	427.2	424.6	417.1	403.9	383.4	353.8	316.0	271.7
117.5°	377.7	391.8	399.6	401.8	399.6	391.8	377.7	356.9	329.1	294.8	255.8
120°	360.7	374.2	382.5	385.5	382.5	374.2	360.7	340.5	314.3	283.7	248.0
122.5°	345.2	358.6	366.0	368.4	366.0	358.6	345.2	327.1	303.5	274.5	241.8
125°	326.1	337.0	344.2	346.6	344.2	337.0	326.1	309.4	287.8	262.4	232.8
127.5°	309.1	319.4	325.5	327.4	325.5	319.4	309.1	294.5	274.6	250.7	223.8
130°	298.7	308.5	314.3	316.6	314.3	308.5	298.7	284.6	265.6	242.9	218.1
132.5°	288.1	297.9	303.2	305.3	303.2	297.9	288.1	274.3	256.4	235.5	212.5
135°	271.3	280.9	286.1	287.2	286.1	280.9	271.3	258.9	242.9	223.8	204.8
137.5°	255.0	263.2	267.7	269.5	267.7	263.2	255.0	243.7	229.7	214.6	198.7
140°	243.7	251.2	255.5	257.2	255.5	251.2	243.7	234.5	221.8	208.6	194.7
142.5°	234.0	240.8	244.7	245.0	244.7	240.8	234.0	225.3	214.7	203.3	191.5
145°	220.6	225.6	228.4	229.3	228.4	225.6	220.6	213.8	205.4	196.5	186.9
147.5°	209.7	213.6	215.6	216.1	215.6	213.6	209.7	204.0	197.9	190.9	183.4
150°	202.8	206.3	208.0	208.3	208.0	206.3	202.8	198.4	193.3	187.3	180.9
152.5°	197.3	200.2	201.5	201.6	201.5	200.2	197.3	193.9	189.4	184.3	178.4
155°	190.1	192.2	193.3	192.7	193.3	192.2	190.1	186.9	183.8	179.4	174.9
157.5°	183.0	184.7	185.2	185.2	185.2	184.7	183.0	180.8	178.2	174.6	170.8
160°	178.6	180.0	180.3	180.3	180.3	180.0	178.6	176.6	174.6	171.4	168.2
162.5°	174.7	175.7	175.9	175.7	175.9	175.7	174.7	172.7	171.1	168.4	165.7
165°	168.2	169.4	169.4	169.1	169.4	169.4	168.2	167.1	165.9	163.9	161.9
167.5°	162.7	163.4	163.3	163.0	163.3	163.4	162.7	162.2	161.2	159.8	158.2
170°	159.3	160.1	159.9	159.3	159.9	160.1	159.3	159.0	158.4	157.3	156.5
172.5°	156.5	156.9	156.6	156.3	156.6	156.9	156.5	156.2	155.9	155.0	154.3
175°	153.0	153.3	153.0	152.4	153.0	153.3	153.0	153.0	152.7	152.4	152.1
177.5°	150.7	150.7	150.5	150.0	150.5	150.7	150.7	150.7	150.7	150.5	150.5
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

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°	5.9	6.3	6.5	6.5	6.1	6.2	6.4	6.6	7.1	7.3	7.4
90°	9.5	9.8	9.5	7.7	5.8	4.3	3.4	2.9	2.3	1.1	0.3
92.5°	31.6	37.4	36.9	28.8	19.6	13.0	10.4	8.4	7.2	5.1	3.5
95°	98.8	112.9	100.0	66.5	41.5	28.2	21.3	16.7	14.1	11.3	10.1
97.5°	202.2	192.7	145.2	89.7	54.7	38.1	30.2	24.9	21.0	17.9	16.4
100°	269.0	227.6	156.7	94.5	59.4	44.1	36.0	30.2	25.6	23.1	22.2
102.5°	293.9	228.7	152.3	94.7	63.5	49.4	41.3	35.3	30.7	28.1	27.5
105°	290.1	213.4	143.7	96.2	70.6	57.1	49.0	42.6	38.3	36.3	35.1
107.5°	264.8	197.1	139.5	100.2	77.9	64.7	56.6	50.3	46.3	44.4	43.5
110°	248.9	189.2	138.6	103.4	82.7	70.0	61.6	55.6	51.9	50.1	49.0



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.8	184.2	138.8	106.9	87.3	75.1	66.4	60.7	57.2	55.2	54.1
115°	224.1	178.6	140.0	112.0	94.5	82.1	74.4	68.6	65.1	63.3	62.0
117.5°	215.5	175.9	142.1	117.6	101.1	89.7	81.6	76.1	73.0	71.3	70.1
120°	210.8	174.3	143.5	121.3	105.7	94.5	86.4	80.6	78.1	76.3	75.2
122.5°	206.9	173.3	145.0	124.5	110.1	99.5	91.2	85.5	82.7	81.0	80.1
125°	201.4	171.7	147.5	129.6	116.7	106.3	98.2	92.5	89.0	87.3	86.4
127.5°	196.2	170.7	149.9	134.4	122.8	112.7	104.4	98.9	95.1	92.6	91.5
130°	192.7	170.2	151.8	137.4	126.5	116.3	108.4	102.6	98.5	95.6	94.5
132.5°	190.0	170.0	153.7	140.4	129.7	120.1	112.0	106.0	101.7	98.7	97.3
135°	186.1	169.7	155.9	144.3	134.3	125.0	117.0	110.3	106.0	102.6	101.4
137.5°	183.4	169.6	157.8	147.3	137.9	128.8	121.3	114.8	110.1	106.7	105.3
140°	181.7	169.4	158.7	149.0	140.0	131.3	123.8	117.6	112.9	109.5	108.4
142.5°	180.2	169.4	159.4	150.3	141.6	133.2	126.2	120.1	115.4	112.3	111.3
145°	178.1	168.8	160.1	152.1	144.1	136.2	130.0	124.2	119.8	117.0	115.8
147.5°	175.9	167.8	160.4	153.1	146.0	138.7	133.1	128.2	124.3	121.5	120.7
150°	174.0	167.1	160.1	153.5	146.9	140.3	135.1	130.8	127.0	124.7	123.8
152.5°	172.4	165.9	159.7	153.8	147.8	141.9	137.2	133.1	129.8	127.5	127.1
155°	169.4	163.9	159.0	154.1	149.2	144.3	140.0	136.8	133.6	131.9	131.7
157.5°	166.6	161.8	157.7	154.1	150.2	146.0	142.4	139.9	137.1	135.7	135.4
160°	164.4	160.5	157.0	154.1	150.7	147.2	144.1	141.7	139.4	138.3	137.9
162.5°	162.7	159.3	156.3	153.8	150.9	147.9	145.4	143.3	141.5	140.3	140.6
165°	159.6	157.0	155.0	153.3	151.2	148.6	146.9	145.4	143.7	143.2	143.5
167.5°	156.6	155.0	153.7	152.9	151.2	149.3	148.2	147.2	146.0	145.5	145.9
170°	155.0	153.8	153.0	152.4	150.9	149.5	148.6	148.1	147.2	146.9	147.5
172.5°	153.4	152.5	152.1	151.7	150.7	149.8	149.1	148.8	147.9	148.1	148.4
175°	151.2	150.9	150.7	150.9	150.3	149.8	149.5	149.5	149.0	149.2	149.5
177.5°	150.0	149.8	150.0	150.5	150.0	149.8	149.8	149.8	149.8	149.5	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

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°	8.6	10.1	10.2	11.3	10.8	11.2	11.6	11.6	11.3	10.9	10.5
90°	1.1	2.3	2.9	3.4	4.3	5.8	7.7	9.5	9.8	9.5	9.2
92.5°	5.1	7.2	8.4	10.4	13.0	19.6	28.8	36.9	37.4	31.6	25.1
95°	11.3	14.1	16.7	21.3	28.2	41.5	66.5	100.0	112.9	98.8	75.5
97.5°	17.9	21.0	24.9	30.2	38.1	54.7	89.7	145.2	192.7	202.2	176.1
100°	23.1	25.6	30.2	36.0	44.1	59.4	94.5	156.7	227.6	269.0	263.0
102.5°	28.1	30.7	35.3	41.3	49.4	63.5	94.7	152.3	228.7	293.9	319.9
105°	36.3	38.3	42.6	49.0	57.1	70.6	96.2	143.7	213.4	290.1	350.0
107.5°	44.4	46.3	50.3	56.6	64.7	77.9	100.2	139.5	197.1	264.8	328.3
110°	50.1	51.9	55.6	61.6	70.0	82.7	103.4	138.6	189.2	248.9	309.7



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	55.2	57.2	60.7	66.4	75.1	87.3	106.9	138.8	184.2	237.8	292.6
115°	63.3	65.1	68.6	74.4	82.1	94.5	112.0	140.0	178.6	224.1	271.7
117.5°	71.3	73.0	76.1	81.6	89.7	101.1	117.6	142.1	175.9	215.5	255.8
120°	76.3	78.1	80.6	86.4	94.5	105.7	121.3	143.5	174.3	210.8	248.0
122.5°	81.0	82.7	85.5	91.2	99.5	110.1	124.5	145.0	173.3	206.9	241.8
125°	87.3	89.0	92.5	98.2	106.3	116.7	129.6	147.5	171.7	201.4	232.8
127.5°	92.6	95.1	98.9	104.4	112.7	122.8	134.4	149.9	170.7	196.2	223.8
130°	95.6	98.5	102.6	108.4	116.3	126.5	137.4	151.8	170.2	192.7	218.1
132.5°	98.7	101.7	106.0	112.0	120.1	129.7	140.4	153.7	170.0	190.0	212.5
135°	102.6	106.0	110.3	117.0	125.0	134.3	144.3	155.9	169.7	186.1	204.8
137.5°	106.7	110.1	114.8	121.3	128.8	137.9	147.3	157.8	169.6	183.4	198.7
140°	109.5	112.9	117.6	123.8	131.3	140.0	149.0	158.7	169.4	181.7	194.7
142.5°	112.3	115.4	120.1	126.2	133.2	141.6	150.3	159.4	169.4	180.2	191.5
145°	117.0	119.8	124.2	130.0	136.2	144.1	152.1	160.1	168.8	178.1	186.9
147.5°	121.5	124.3	128.2	133.1	138.7	146.0	153.1	160.4	167.8	175.9	183.4
150°	124.7	127.0	130.8	135.1	140.3	146.9	153.5	160.1	167.1	174.0	180.9
152.5°	127.5	129.8	133.1	137.2	141.9	147.8	153.8	159.7	165.9	172.4	178.4
155°	131.9	133.6	136.8	140.0	144.3	149.2	154.1	159.0	163.9	169.4	174.9
157.5°	135.7	137.1	139.9	142.4	146.0	150.2	154.1	157.7	161.8	166.6	170.8
160°	138.3	139.4	141.7	144.1	147.2	150.7	154.1	157.0	160.5	164.4	168.2
162.5°	140.3	141.5	143.3	145.4	147.9	150.9	153.8	156.3	159.3	162.7	165.7
165°	143.2	143.7	145.4	146.9	148.6	151.2	153.3	155.0	157.0	159.6	161.9
167.5°	145.5	146.0	147.2	148.2	149.3	151.2	152.9	153.7	155.0	156.6	158.2
170°	146.9	147.2	148.1	148.6	149.5	150.9	152.4	153.0	153.8	155.0	156.5
172.5°	148.1	147.9	148.8	149.1	149.8	150.7	151.7	152.1	152.5	153.4	154.3
175°	149.2	149.0	149.5	149.5	149.8	150.3	150.9	150.7	150.9	151.2	152.1
177.5°	149.5	149.4	149.8	149.8	149.8	150.0	150.5	150.0	149.8	150.0	150.5
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

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°	10.7	10.8	10.6	10.6	10.9	10.6	10.6
90°	8.6	9.2	9.5	9.5	9.5	9.5	9.5
92.5°	21.5	19.2	17.4	17.1	16.2	16.4	16.0
95°	57.9	45.8	39.5	35.7	33.4	32.5	32.9
97.5°	144.1	112.9	92.1	78.4	71.3	67.1	64.7
100°	227.3	187.8	153.0	129.1	116.7	108.4	103.1
102.5°	311.9	283.0	246.1	220.0	198.9	188.5	181.5
105°	382.5	386.3	376.8	358.9	341.0	328.6	324.7
107.5°	377.4	407.3	421.3	423.5	422.6	420.0	414.7
110°	361.3	398.1	421.8	434.1	439.6	442.2	441.9



TEST NUMBER: P331332-930

CATALOG NUMBER: SA2XXDIP-C675D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	342.1	381.5	408.6	425.8	435.0	439.9	441.4
115°	316.0	353.8	383.4	403.9	417.1	424.6	427.2
117.5°	294.8	329.1	356.9	377.7	391.8	399.6	401.8
120°	283.7	314.3	340.5	360.7	374.2	382.5	385.5
122.5°	274.5	303.5	327.1	345.2	358.6	366.0	368.4
125°	262.4	287.8	309.4	326.1	337.0	344.2	346.6
127.5°	250.7	274.6	294.5	309.1	319.4	325.5	327.4
130°	242.9	265.6	284.6	298.7	308.5	314.3	316.6
132.5°	235.5	256.4	274.3	288.1	297.9	303.2	305.3
135°	223.8	242.9	258.9	271.3	280.9	286.1	287.2
137.5°	214.6	229.7	243.7	255.0	263.2	267.7	269.5
140°	208.6	221.8	234.5	243.7	251.2	255.5	257.2
142.5°	203.3	214.7	225.3	234.0	240.8	244.7	245.0
145°	196.5	205.4	213.8	220.6	225.6	228.4	229.3
147.5°	190.9	197.9	204.0	209.7	213.6	215.6	216.1
150°	187.3	193.3	198.4	202.8	206.3	208.0	208.3
152.5°	184.3	189.4	193.9	197.3	200.2	201.5	201.6
155°	179.4	183.8	186.9	190.1	192.2	193.3	192.7
157.5°	174.6	178.2	180.8	183.0	184.7	185.2	185.2
160°	171.4	174.6	176.6	178.6	180.0	180.3	180.3
162.5°	168.4	171.1	172.7	174.7	175.7	175.9	175.7
165°	163.9	165.9	167.1	168.2	169.4	169.4	169.1
167.5°	159.8	161.2	162.2	162.7	163.4	163.3	163.0
170°	157.3	158.4	159.0	159.3	160.1	159.9	159.3
172.5°	155.0	155.9	156.2	156.5	156.9	156.6	156.3
175°	152.4	152.7	153.0	153.0	153.3	153.0	152.4
177.5°	150.5	150.7	150.7	150.7	150.7	150.5	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8

(END OF REPORT)