

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: P331339-940

Luminaire Tested: **SA2XXDIP-C675D530U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331339-940
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-C675D530U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

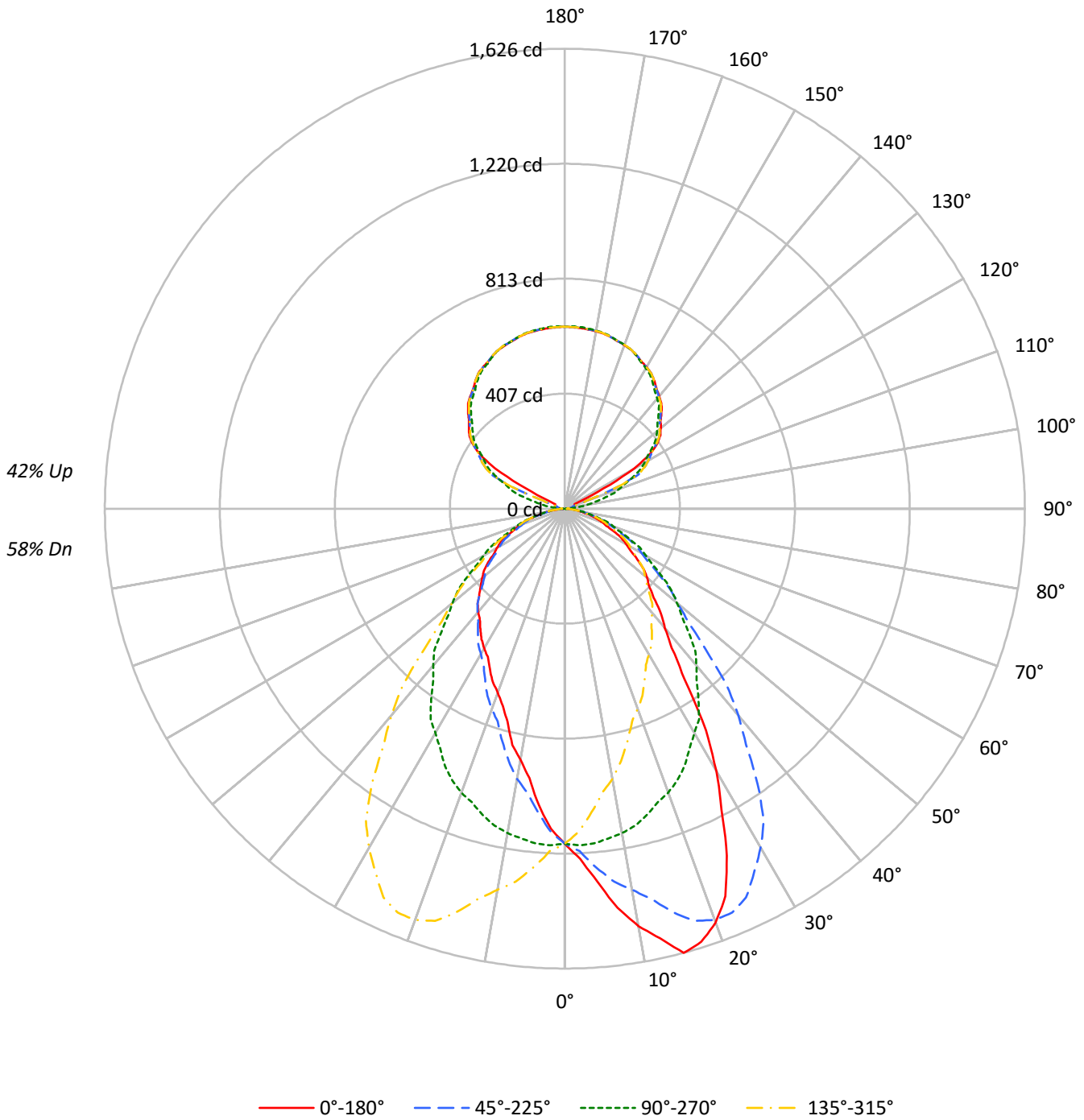
Lumens per Lamp: N/A
Luminaire Lumens: 4499.4 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 40.3
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58				
1	100	96	92	89	93	90	86	84	78	76	73	67	65	64	57	56	55	50				
2	92	84	79	74	85	79	74	69	69	65	62	60	57	54	51	49	47	43				
3	84	75	68	62	78	70	64	59	61	56	53	53	50	46	46	43	41	37				
4	77	67	59	53	72	63	56	50	55	50	45	48	44	40	41	38	36	32				
5	71	60	52	46	66	56	49	44	49	44	39	43	39	35	37	34	31	28				
6	66	54	46	40	61	51	44	38	45	39	35	39	35	31	34	31	28	25				
7	61	49	41	35	57	46	39	34	41	35	31	36	31	28	31	28	25	23				
8	57	45	37	32	53	42	35	30	37	32	28	33	28	25	29	25	23	20				
9	53	41	33	28	49	39	32	27	34	29	25	31	26	23	27	23	21	19				
10	50	38	30	26	46	36	29	25	32	26	23	28	24	21	25	21	19	17				

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	2.5
10°-20°	327.9	7.3
20°-30°	475.9	10.6
30°-40°	502.2	11.2
40°-50°	444.7	9.9
50°-60°	354.9	7.9
60°-70°	241.2	5.4
70°-80°	123.7	2.7
80°-90°	31.4	0.7
90°-100°	21.5	0.5
100°-110°	78.7	1.7
110°-120°	210.3	4.7
120°-130°	347.1	7.7
130°-140°	369.2	8.2
140°-150°	343.1	7.6
150°-160°	275.9	6.1
160°-170°	177.8	4.0
170°-180°	61.2	1.4
0°-30°	916.7	20.4
0°-40°	1418.9	31.5
0°-60°	2218.4	49.3
0°-90°	2614.7	58.1
90°-120°	310.4	6.9
90°-150°	1369.9	30.4
90°-180°	1885.0	41.9
0°-180°	4499.4	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°	13	0	13	0	13	7
95°	20	30	20	30	20	19
105°	35	141	35	141	35	37
115°	38	268	38	268	38	96
125°	398	378	398	378	398	344
135°	484	468	484	468	484	373
145°	551	543	551	543	551	345
155°	598	598	598	598	598	276
165°	629	630	629	630	629	177
175°	641	644	641	644	641	61
180°	643	643	643	643	643	



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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°	11.9	11.9	12.3	11.9	11.9	12.1	12.0	11.5	11.8	12.0	12.2
90°	12.6	12.4	12.1	11.9	11.8	11.4	10.9	10.3	9.8	9.3	8.5
92.5°	12.6	12.5	12.3	12.2	12.0	11.9	11.6	11.3	11.1	10.8	10.3
95°	20.0	20.2	20.2	20.3	20.4	20.2	19.7	19.2	18.6	18.2	17.4
97.5°	26.8	26.6	26.5	26.3	26.2	25.9	25.5	25.1	24.7	24.3	22.6
100°	31.2	30.9	30.8	30.6	30.3	29.9	29.0	28.2	27.4	26.5	24.8
102.5°	33.4	33.1	32.8	32.5	32.3	31.6	30.5	29.4	28.4	27.3	42.0
105°	35.4	35.0	34.5	34.2	33.7	32.9	31.8	30.7	29.5	28.4	56.6
107.5°	36.4	35.9	35.6	35.1	34.8	35.1	36.3	37.5	38.6	39.8	73.6
110°	36.7	36.4	35.9	35.5	35.1	40.0	50.4	60.7	71.1	81.4	111.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	37.1	36.8	36.5	36.1	35.8	54.5	92.2	129.9	167.6	205.5	212.8
115°	38.2	45.6	53.1	60.5	67.9	95.6	143.5	191.4	239.2	287.1	284.5
117.5°	155.8	180.3	204.7	229.2	253.7	271.7	283.3	294.9	306.5	318.0	316.3
120°	283.8	297.8	311.8	325.7	339.7	346.1	344.8	343.6	342.3	341.1	339.2
122.5°	354.2	357.0	359.6	362.4	365.1	366.0	365.3	364.5	363.8	363.1	361.1
125°	397.9	397.6	397.3	397.0	396.6	396.1	395.4	394.7	394.0	393.2	391.3
127.5°	425.4	425.3	425.3	425.3	425.2	424.6	423.6	422.5	421.4	420.4	418.9
130°	442.6	442.6	442.7	442.8	443.0	442.5	441.3	440.1	439.1	437.9	436.8
132.5°	459.3	459.4	459.5	459.6	459.7	459.3	458.3	457.4	456.4	455.4	454.2
135°	483.5	483.8	483.9	484.1	484.4	483.9	482.9	481.9	480.8	479.7	478.8
137.5°	505.6	506.0	506.2	506.6	506.9	506.7	505.6	504.6	503.6	502.6	501.5
140°	519.3	519.9	520.4	520.8	521.4	521.2	520.2	519.3	518.4	517.5	516.3
142.5°	532.7	533.2	533.8	534.3	534.8	534.7	533.8	533.0	532.1	531.3	529.9
145°	551.4	552.0	552.5	553.0	553.5	553.4	552.7	552.0	551.3	550.5	548.8
147.5°	567.9	568.4	568.8	569.3	569.6	569.6	569.1	568.6	568.0	567.5	565.7
150°	578.0	578.5	579.0	579.5	580.1	580.0	579.3	578.7	578.1	577.5	575.9
152.5°	586.6	587.2	587.9	588.6	589.2	589.3	588.7	588.1	587.5	586.8	585.2
155°	598.4	599.3	600.1	600.9	601.7	601.9	601.3	600.7	600.0	599.4	598.2
157.5°	609.3	610.1	610.9	611.7	612.6	612.6	611.9	611.2	610.5	609.8	608.9
160°	615.6	616.4	617.2	617.9	618.6	618.6	618.0	617.3	616.8	616.2	615.5
162.5°	620.9	621.8	622.7	623.6	624.5	624.6	623.8	623.1	622.4	621.7	621.2
165°	628.7	629.5	630.2	630.9	631.6	631.6	630.9	630.2	629.5	628.7	628.4
167.5°	633.6	634.5	635.5	636.4	637.4	637.5	636.8	636.0	635.3	634.5	634.3
170°	636.6	637.6	638.5	639.4	640.3	640.4	639.7	639.0	638.3	637.6	637.3
172.5°	638.8	639.8	640.7	641.7	642.6	642.7	641.9	641.2	640.5	639.8	639.5
175°	640.8	641.9	642.8	643.9	645.0	645.1	644.4	643.6	642.9	642.2	641.9
177.5°	642.0	642.7	643.5	644.3	645.0	645.1	644.5	643.9	643.4	642.7	642.7
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



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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	12.3	12.1	12.7	11.3	11.1	9.5	8.1	7.9	7.8	7.3
90°	7.7	6.9	6.0	5.0	3.8	2.8	1.6	0.4	1.6	2.8	3.8
92.5°	10.0	9.5	9.2	9.0	9.1	9.2	9.3	9.4	9.3	9.2	9.1
95°	16.7	16.0	15.2	16.6	20.0	23.5	26.8	30.2	26.8	23.5	20.0
97.5°	21.0	19.3	17.6	21.6	31.2	40.8	50.4	60.0	50.4	40.8	31.2
100°	23.0	21.2	19.5	25.7	39.9	54.0	68.2	82.4	68.2	54.0	39.9
102.5°	56.7	71.4	86.1	95.0	97.9	100.9	104.0	106.9	104.0	100.9	97.9
105°	84.9	113.1	141.3	153.9	150.8	147.7	144.5	141.4	144.5	147.7	150.8
107.5°	107.5	141.3	175.1	190.8	188.3	185.8	183.3	180.8	183.3	185.8	188.3
110°	141.2	171.1	201.0	214.8	212.7	210.5	208.3	206.2	208.3	210.5	212.7



TEST NUMBER: P331339-940

CATALOG NUMBER: SA2XXDIP-C675D530U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	220.2	227.6	235.0	237.6	235.8	233.8	231.9	230.0	231.9	233.8	235.8
115°	282.0	279.4	276.8	274.6	272.9	271.1	269.3	267.6	269.3	271.1	272.9
117.5°	314.5	312.7	310.9	309.1	307.1	305.1	303.2	301.2	303.2	305.1	307.1
120°	337.4	335.6	333.7	332.0	330.4	328.9	327.3	325.7	327.3	328.9	330.4
122.5°	359.0	357.0	355.0	353.1	351.5	349.9	348.2	346.6	348.2	349.9	351.5
125°	389.3	387.4	385.4	383.7	382.4	381.0	379.7	378.4	379.7	381.0	382.4
127.5°	417.5	416.0	414.6	413.0	411.5	410.1	408.6	407.1	408.6	410.1	411.5
130°	435.6	434.5	433.4	431.9	430.3	428.6	427.0	425.3	427.0	428.6	430.3
132.5°	453.2	452.0	450.8	449.6	448.2	446.7	445.3	444.0	445.3	446.7	448.2
135°	478.0	477.0	476.1	474.7	473.1	471.4	469.8	468.1	469.8	471.4	473.1
137.5°	500.5	499.4	498.4	497.2	496.1	494.9	493.7	492.7	493.7	494.9	496.1
140°	515.2	514.1	512.9	511.9	511.1	510.3	509.4	508.6	509.4	510.3	511.1
142.5°	528.6	527.4	526.0	525.0	524.2	523.5	522.8	522.0	522.8	523.5	524.2
145°	547.0	545.3	543.5	542.7	542.8	542.9	543.0	543.1	543.0	542.9	542.8
147.5°	564.0	562.2	560.5	559.8	560.3	560.6	561.0	561.4	561.0	560.6	560.3
150°	574.2	572.6	570.9	570.4	571.1	571.9	572.6	573.3	572.6	571.9	571.1
152.5°	583.7	582.1	580.5	580.1	580.9	581.8	582.6	583.4	582.6	581.8	580.9
155°	596.9	595.7	594.4	594.2	595.2	596.1	597.1	598.0	597.1	596.1	595.2
157.5°	608.1	607.2	606.4	606.3	607.1	607.9	608.7	609.4	608.7	607.9	607.1
160°	614.9	614.3	613.7	613.7	614.3	614.9	615.5	616.2	615.5	614.9	614.3
162.5°	620.6	620.1	619.6	619.6	620.2	620.8	621.4	622.1	621.4	620.8	620.2
165°	628.0	627.8	627.5	627.6	628.2	628.8	629.5	630.1	629.5	628.8	628.2
167.5°	634.0	633.6	633.4	633.6	634.2	634.8	635.4	636.1	635.4	634.8	634.2
170°	637.1	636.9	636.7	636.9	637.6	638.2	638.8	639.4	638.8	638.2	637.6
172.5°	639.4	639.2	638.9	639.2	639.8	640.4	641.1	641.7	641.1	640.4	639.8
175°	641.8	641.6	641.4	641.6	642.4	643.1	643.8	644.5	643.8	643.1	642.4
177.5°	642.6	642.5	642.4	642.7	643.3	643.8	644.4	645.0	644.4	643.8	643.3
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



TEST NUMBER: P331339-940

CATALOG NUMBER: SA2XXDIP-C675D530U940-4F0-1E-UDD-A

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°	7.2	7.0	6.9	7.0	6.8	6.6	6.3	6.4	6.5	5.9	6.0
90°	5.0	6.0	6.9	7.7	8.5	9.3	9.8	10.3	10.9	11.4	11.8
92.5°	9.0	9.2	9.5	10.0	10.3	10.8	11.1	11.3	11.6	11.9	12.0
95°	16.6	15.2	16.0	16.7	17.4	18.2	18.6	19.2	19.7	20.2	20.4
97.5°	21.6	17.6	19.3	21.0	22.6	24.3	24.7	25.1	25.5	25.9	26.2
100°	25.7	19.5	21.2	23.0	24.8	26.5	27.4	28.2	29.0	29.9	30.3
102.5°	95.0	86.1	71.4	56.7	42.0	27.3	28.4	29.4	30.5	31.6	32.3
105°	153.9	141.3	113.1	84.9	56.6	28.4	29.5	30.7	31.8	32.9	33.7
107.5°	190.8	175.1	141.3	107.5	73.6	39.8	38.6	37.5	36.3	35.1	34.8
110°	214.8	201.0	171.1	141.2	111.3	81.4	71.1	60.7	50.4	40.0	35.1



TEST NUMBER: P331339-940

CATALOG NUMBER: SA2XXDIP-C675D530U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	237.6	235.0	227.6	220.2	212.8	205.5	167.6	129.9	92.2	54.5	35.8
115°	274.6	276.8	279.4	282.0	284.5	287.1	239.2	191.4	143.5	95.6	67.9
117.5°	309.1	310.9	312.7	314.5	316.3	318.0	306.5	294.9	283.3	271.7	253.7
120°	332.0	333.7	335.6	337.4	339.2	341.1	342.3	343.6	344.8	346.1	339.7
122.5°	353.1	355.0	357.0	359.0	361.1	363.1	363.8	364.5	365.3	366.0	365.1
125°	383.7	385.4	387.4	389.3	391.3	393.2	394.0	394.7	395.4	396.1	396.6
127.5°	413.0	414.6	416.0	417.5	418.9	420.4	421.4	422.5	423.6	424.6	425.2
130°	431.9	433.4	434.5	435.6	436.8	437.9	439.1	440.1	441.3	442.5	443.0
132.5°	449.6	450.8	452.0	453.2	454.2	455.4	456.4	457.4	458.3	459.3	459.7
135°	474.7	476.1	477.0	478.0	478.8	479.7	480.8	481.9	482.9	483.9	484.4
137.5°	497.2	498.4	499.4	500.5	501.5	502.6	503.6	504.6	505.6	506.7	506.9
140°	511.9	512.9	514.1	515.2	516.3	517.5	518.4	519.3	520.2	521.2	521.4
142.5°	525.0	526.0	527.4	528.6	529.9	531.3	532.1	533.0	533.8	534.7	534.8
145°	542.7	543.5	545.3	547.0	548.8	550.5	551.3	552.0	552.7	553.4	553.5
147.5°	559.8	560.5	562.2	564.0	565.7	567.5	568.0	568.6	569.1	569.6	569.6
150°	570.4	570.9	572.6	574.2	575.9	577.5	578.1	578.7	579.3	580.0	580.1
152.5°	580.1	580.5	582.1	583.7	585.2	586.8	587.5	588.1	588.7	589.3	589.2
155°	594.2	594.4	595.7	596.9	598.2	599.4	600.0	600.7	601.3	601.9	601.7
157.5°	606.3	606.4	607.2	608.1	608.9	609.8	610.5	611.2	611.9	612.6	612.6
160°	613.7	613.7	614.3	614.9	615.5	616.2	616.8	617.3	618.0	618.6	618.6
162.5°	619.6	619.6	620.1	620.6	621.2	621.7	622.4	623.1	623.8	624.6	624.5
165°	627.6	627.5	627.8	628.0	628.4	628.7	629.5	630.2	630.9	631.6	631.6
167.5°	633.6	633.4	633.6	634.0	634.3	634.5	635.3	636.0	636.8	637.5	637.4
170°	636.9	636.7	636.9	637.1	637.3	637.6	638.3	639.0	639.7	640.4	640.3
172.5°	639.2	638.9	639.2	639.4	639.5	639.8	640.5	641.2	641.9	642.7	642.6
175°	641.6	641.4	641.6	641.8	641.9	642.2	642.9	643.6	644.4	645.1	645.0
177.5°	642.7	642.4	642.5	642.6	642.7	642.7	643.4	643.9	644.5	645.1	645.0
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



TEST NUMBER: P331339-940

CATALOG NUMBER: SA2XXDIP-C675D530U940-4F0-1E-UDD-A

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°	6.1	5.7	5.7	5.4	5.7	5.7	6.1	6.0	5.9	6.5	6.4
90°	11.9	12.1	12.4	12.6	12.4	12.1	11.9	11.8	11.4	10.9	10.3
92.5°	12.2	12.3	12.5	12.6	12.5	12.3	12.2	12.0	11.9	11.6	11.3
95°	20.3	20.2	20.2	20.0	20.2	20.2	20.3	20.4	20.2	19.7	19.2
97.5°	26.3	26.5	26.6	26.8	26.6	26.5	26.3	26.2	25.9	25.5	25.1
100°	30.6	30.8	30.9	31.2	30.9	30.8	30.6	30.3	29.9	29.0	28.2
102.5°	32.5	32.8	33.1	33.4	33.1	32.8	32.5	32.3	31.6	30.5	29.4
105°	34.2	34.5	35.0	35.4	35.0	34.5	34.2	33.7	32.9	31.8	30.7
107.5°	35.1	35.6	35.9	36.4	35.9	35.6	35.1	34.8	35.1	36.3	37.5
110°	35.5	35.9	36.4	36.7	36.4	35.9	35.5	35.1	40.0	50.4	60.7



TEST NUMBER: P331339-940

CATALOG NUMBER: SA2XXDIP-C675D530U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	36.1	36.5	36.8	37.1	36.8	36.5	36.1	35.8	54.5	92.2	129.9
115°	60.5	53.1	45.6	38.2	45.6	53.1	60.5	67.9	95.6	143.5	191.4
117.5°	229.2	204.7	180.3	155.8	180.3	204.7	229.2	253.7	271.7	283.3	294.9
120°	325.7	311.8	297.8	283.8	297.8	311.8	325.7	339.7	346.1	344.8	343.6
122.5°	362.4	359.6	357.0	354.2	357.0	359.6	362.4	365.1	366.0	365.3	364.5
125°	397.0	397.3	397.6	397.9	397.6	397.3	397.0	396.6	396.1	395.4	394.7
127.5°	425.3	425.3	425.3	425.4	425.3	425.3	425.3	425.2	424.6	423.6	422.5
130°	442.8	442.7	442.6	442.6	442.6	442.7	442.8	443.0	442.5	441.3	440.1
132.5°	459.6	459.5	459.4	459.3	459.4	459.5	459.6	459.7	459.3	458.3	457.4
135°	484.1	483.9	483.8	483.5	483.8	483.9	484.1	484.4	483.9	482.9	481.9
137.5°	506.6	506.2	506.0	505.6	506.0	506.2	506.6	506.9	506.7	505.6	504.6
140°	520.8	520.4	519.9	519.3	519.9	520.4	520.8	521.4	521.2	520.2	519.3
142.5°	534.3	533.8	533.2	532.7	533.2	533.8	534.3	534.8	534.7	533.8	533.0
145°	553.0	552.5	552.0	551.4	552.0	552.5	553.0	553.5	553.4	552.7	552.0
147.5°	569.3	568.8	568.4	567.9	568.4	568.8	569.3	569.6	569.6	569.1	568.6
150°	579.5	579.0	578.5	578.0	578.5	579.0	579.5	580.1	580.0	579.3	578.7
152.5°	588.6	587.9	587.2	586.6	587.2	587.9	588.6	589.2	589.3	588.7	588.1
155°	600.9	600.1	599.3	598.4	599.3	600.1	600.9	601.7	601.9	601.3	600.7
157.5°	611.7	610.9	610.1	609.3	610.1	610.9	611.7	612.6	612.6	611.9	611.2
160°	617.9	617.2	616.4	615.6	616.4	617.2	617.9	618.6	618.6	618.0	617.3
162.5°	623.6	622.7	621.8	620.9	621.8	622.7	623.6	624.5	624.6	623.8	623.1
165°	630.9	630.2	629.5	628.7	629.5	630.2	630.9	631.6	631.6	630.9	630.2
167.5°	636.4	635.5	634.5	633.6	634.5	635.5	636.4	637.4	637.5	636.8	636.0
170°	639.4	638.5	637.6	636.6	637.6	638.5	639.4	640.3	640.4	639.7	639.0
172.5°	641.7	640.7	639.8	638.8	639.8	640.7	641.7	642.6	642.7	641.9	641.2
175°	643.9	642.8	641.9	640.8	641.9	642.8	643.9	645.0	645.1	644.4	643.6
177.5°	644.3	643.5	642.7	642.0	642.7	643.5	644.3	645.0	645.1	644.5	643.9
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



TEST NUMBER: P331339-940
 CATALOG NUMBER: SA2XXDIP-C675D530U940-4F0-1E-UDD-A

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°	6.3	6.6	6.8	7.0	6.9	7.0	7.2	7.3	7.8	7.9	8.1
90°	9.8	9.3	8.5	7.7	6.9	6.0	5.0	3.8	2.8	1.6	0.4
92.5°	11.1	10.8	10.3	10.0	9.5	9.2	9.0	9.1	9.2	9.3	9.4
95°	18.6	18.2	17.4	16.7	16.0	15.2	16.6	20.0	23.5	26.8	30.2
97.5°	24.7	24.3	22.6	21.0	19.3	17.6	21.6	31.2	40.8	50.4	60.0
100°	27.4	26.5	24.8	23.0	21.2	19.5	25.7	39.9	54.0	68.2	82.4
102.5°	28.4	27.3	42.0	56.7	71.4	86.1	95.0	97.9	100.9	104.0	106.9
105°	29.5	28.4	56.6	84.9	113.1	141.3	153.9	150.8	147.7	144.5	141.4
107.5°	38.6	39.8	73.6	107.5	141.3	175.1	190.8	188.3	185.8	183.3	180.8
110°	71.1	81.4	111.3	141.2	171.1	201.0	214.8	212.7	210.5	208.3	206.2



TEST NUMBER: P331339-940

CATALOG NUMBER: SA2XXDIP-C675D530U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	167.6	205.5	212.8	220.2	227.6	235.0	237.6	235.8	233.8	231.9	230.0
115°	239.2	287.1	284.5	282.0	279.4	276.8	274.6	272.9	271.1	269.3	267.6
117.5°	306.5	318.0	316.3	314.5	312.7	310.9	309.1	307.1	305.1	303.2	301.2
120°	342.3	341.1	339.2	337.4	335.6	333.7	332.0	330.4	328.9	327.3	325.7
122.5°	363.8	363.1	361.1	359.0	357.0	355.0	353.1	351.5	349.9	348.2	346.6
125°	394.0	393.2	391.3	389.3	387.4	385.4	383.7	382.4	381.0	379.7	378.4
127.5°	421.4	420.4	418.9	417.5	416.0	414.6	413.0	411.5	410.1	408.6	407.1
130°	439.1	437.9	436.8	435.6	434.5	433.4	431.9	430.3	428.6	427.0	425.3
132.5°	456.4	455.4	454.2	453.2	452.0	450.8	449.6	448.2	446.7	445.3	444.0
135°	480.8	479.7	478.8	478.0	477.0	476.1	474.7	473.1	471.4	469.8	468.1
137.5°	503.6	502.6	501.5	500.5	499.4	498.4	497.2	496.1	494.9	493.7	492.7
140°	518.4	517.5	516.3	515.2	514.1	512.9	511.9	511.1	510.3	509.4	508.6
142.5°	532.1	531.3	529.9	528.6	527.4	526.0	525.0	524.2	523.5	522.8	522.0
145°	551.3	550.5	548.8	547.0	545.3	543.5	542.7	542.8	542.9	543.0	543.1
147.5°	568.0	567.5	565.7	564.0	562.2	560.5	559.8	560.3	560.6	561.0	561.4
150°	578.1	577.5	575.9	574.2	572.6	570.9	570.4	571.1	571.9	572.6	573.3
152.5°	587.5	586.8	585.2	583.7	582.1	580.5	580.1	580.9	581.8	582.6	583.4
155°	600.0	599.4	598.2	596.9	595.7	594.4	594.2	595.2	596.1	597.1	598.0
157.5°	610.5	609.8	608.9	608.1	607.2	606.4	606.3	607.1	607.9	608.7	609.4
160°	616.8	616.2	615.5	614.9	614.3	613.7	613.7	614.3	614.9	615.5	616.2
162.5°	622.4	621.7	621.2	620.6	620.1	619.6	619.6	620.2	620.8	621.4	622.1
165°	629.5	628.7	628.4	628.0	627.8	627.5	627.6	628.2	628.8	629.5	630.1
167.5°	635.3	634.5	634.3	634.0	633.6	633.4	633.6	634.2	634.8	635.4	636.1
170°	638.3	637.6	637.3	637.1	636.9	636.7	636.9	637.6	638.2	638.8	639.4
172.5°	640.5	639.8	639.5	639.4	639.2	638.9	639.2	639.8	640.4	641.1	641.7
175°	642.9	642.2	641.9	641.8	641.6	641.4	641.6	642.4	643.1	643.8	644.5
177.5°	643.4	642.7	642.7	642.6	642.5	642.4	642.7	643.3	643.8	644.4	645.0
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



TEST NUMBER: P331339-940

CATALOG NUMBER: SA2XXDIP-C675D530U940-4F0-1E-UDD-A

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°	9.5	11.1	11.3	12.7	12.1	12.3	12.5	12.2	12.0	11.8	11.5
90°	1.6	2.8	3.8	5.0	6.0	6.9	7.7	8.5	9.3	9.8	10.3
92.5°	9.3	9.2	9.1	9.0	9.2	9.5	10.0	10.3	10.8	11.1	11.3
95°	26.8	23.5	20.0	16.6	15.2	16.0	16.7	17.4	18.2	18.6	19.2
97.5°	50.4	40.8	31.2	21.6	17.6	19.3	21.0	22.6	24.3	24.7	25.1
100°	68.2	54.0	39.9	25.7	19.5	21.2	23.0	24.8	26.5	27.4	28.2
102.5°	104.0	100.9	97.9	95.0	86.1	71.4	56.7	42.0	27.3	28.4	29.4
105°	144.5	147.7	150.8	153.9	141.3	113.1	84.9	56.6	28.4	29.5	30.7
107.5°	183.3	185.8	188.3	190.8	175.1	141.3	107.5	73.6	39.8	38.6	37.5
110°	208.3	210.5	212.7	214.8	201.0	171.1	141.2	111.3	81.4	71.1	60.7



TEST NUMBER: P331339-940

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	231.9	233.8	235.8	237.6	235.0	227.6	220.2	212.8	205.5	167.6	129.9
115°	269.3	271.1	272.9	274.6	276.8	279.4	282.0	284.5	287.1	239.2	191.4
117.5°	303.2	305.1	307.1	309.1	310.9	312.7	314.5	316.3	318.0	306.5	294.9
120°	327.3	328.9	330.4	332.0	333.7	335.6	337.4	339.2	341.1	342.3	343.6
122.5°	348.2	349.9	351.5	353.1	355.0	357.0	359.0	361.1	363.1	363.8	364.5
125°	379.7	381.0	382.4	383.7	385.4	387.4	389.3	391.3	393.2	394.0	394.7
127.5°	408.6	410.1	411.5	413.0	414.6	416.0	417.5	418.9	420.4	421.4	422.5
130°	427.0	428.6	430.3	431.9	433.4	434.5	435.6	436.8	437.9	439.1	440.1
132.5°	445.3	446.7	448.2	449.6	450.8	452.0	453.2	454.2	455.4	456.4	457.4
135°	469.8	471.4	473.1	474.7	476.1	477.0	478.0	478.8	479.7	480.8	481.9
137.5°	493.7	494.9	496.1	497.2	498.4	499.4	500.5	501.5	502.6	503.6	504.6
140°	509.4	510.3	511.1	511.9	512.9	514.1	515.2	516.3	517.5	518.4	519.3
142.5°	522.8	523.5	524.2	525.0	526.0	527.4	528.6	529.9	531.3	532.1	533.0
145°	543.0	542.9	542.8	542.7	543.5	545.3	547.0	548.8	550.5	551.3	552.0
147.5°	561.0	560.6	560.3	559.8	560.5	562.2	564.0	565.7	567.5	568.0	568.6
150°	572.6	571.9	571.1	570.4	570.9	572.6	574.2	575.9	577.5	578.1	578.7
152.5°	582.6	581.8	580.9	580.1	580.5	582.1	583.7	585.2	586.8	587.5	588.1
155°	597.1	596.1	595.2	594.2	594.4	595.7	596.9	598.2	599.4	600.0	600.7
157.5°	608.7	607.9	607.1	606.3	606.4	607.2	608.1	608.9	609.8	610.5	611.2
160°	615.5	614.9	614.3	613.7	613.7	614.3	614.9	615.5	616.2	616.8	617.3
162.5°	621.4	620.8	620.2	619.6	619.6	620.1	620.6	621.2	621.7	622.4	623.1
165°	629.5	628.8	628.2	627.6	627.5	627.8	628.0	628.4	628.7	629.5	630.2
167.5°	635.4	634.8	634.2	633.6	633.4	633.6	634.0	634.3	634.5	635.3	636.0
170°	638.8	638.2	637.6	636.9	636.7	636.9	637.1	637.3	637.6	638.3	639.0
172.5°	641.1	640.4	639.8	639.2	638.9	639.2	639.4	639.5	639.8	640.5	641.2
175°	643.8	643.1	642.4	641.6	641.4	641.6	641.8	641.9	642.2	642.9	643.6
177.5°	644.4	643.8	643.3	642.7	642.4	642.5	642.6	642.7	642.7	643.4	643.9
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1



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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°	12.0	12.1	11.9	11.9	12.3	11.9	11.9
90°	10.9	11.4	11.8	11.9	12.1	12.4	12.6
92.5°	11.6	11.9	12.0	12.2	12.3	12.5	12.6
95°	19.7	20.2	20.4	20.3	20.2	20.2	20.0
97.5°	25.5	25.9	26.2	26.3	26.5	26.6	26.8
100°	29.0	29.9	30.3	30.6	30.8	30.9	31.2
102.5°	30.5	31.6	32.3	32.5	32.8	33.1	33.4
105°	31.8	32.9	33.7	34.2	34.5	35.0	35.4
107.5°	36.3	35.1	34.8	35.1	35.6	35.9	36.4
110°	50.4	40.0	35.1	35.5	35.9	36.4	36.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	92.2	54.5	35.8	36.1	36.5	36.8	37.1
115°	143.5	95.6	67.9	60.5	53.1	45.6	38.2
117.5°	283.3	271.7	253.7	229.2	204.7	180.3	155.8
120°	344.8	346.1	339.7	325.7	311.8	297.8	283.8
122.5°	365.3	366.0	365.1	362.4	359.6	357.0	354.2
125°	395.4	396.1	396.6	397.0	397.3	397.6	397.9
127.5°	423.6	424.6	425.2	425.3	425.3	425.3	425.4
130°	441.3	442.5	443.0	442.8	442.7	442.6	442.6
132.5°	458.3	459.3	459.7	459.6	459.5	459.4	459.3
135°	482.9	483.9	484.4	484.1	483.9	483.8	483.5
137.5°	505.6	506.7	506.9	506.6	506.2	506.0	505.6
140°	520.2	521.2	521.4	520.8	520.4	519.9	519.3
142.5°	533.8	534.7	534.8	534.3	533.8	533.2	532.7
145°	552.7	553.4	553.5	553.0	552.5	552.0	551.4
147.5°	569.1	569.6	569.6	569.3	568.8	568.4	567.9
150°	579.3	580.0	580.1	579.5	579.0	578.5	578.0
152.5°	588.7	589.3	589.2	588.6	587.9	587.2	586.6
155°	601.3	601.9	601.7	600.9	600.1	599.3	598.4
157.5°	611.9	612.6	612.6	611.7	610.9	610.1	609.3
160°	618.0	618.6	618.6	617.9	617.2	616.4	615.6
162.5°	623.8	624.6	624.5	623.6	622.7	621.8	620.9
165°	630.9	631.6	631.6	630.9	630.2	629.5	628.7
167.5°	636.8	637.5	637.4	636.4	635.5	634.5	633.6
170°	639.7	640.4	640.3	639.4	638.5	637.6	636.6
172.5°	641.9	642.7	642.6	641.7	640.7	639.8	638.8
175°	644.4	645.1	645.0	643.9	642.8	641.9	640.8
177.5°	644.5	645.1	645.0	644.3	643.5	642.7	642.0
180°	643.1	643.1	643.1	643.1	643.1	643.1	643.1

(END OF REPORT)