

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: P331676-935

Luminaire Tested: **SA2XXRDIP-C675D330U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331676-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C675D330U935-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

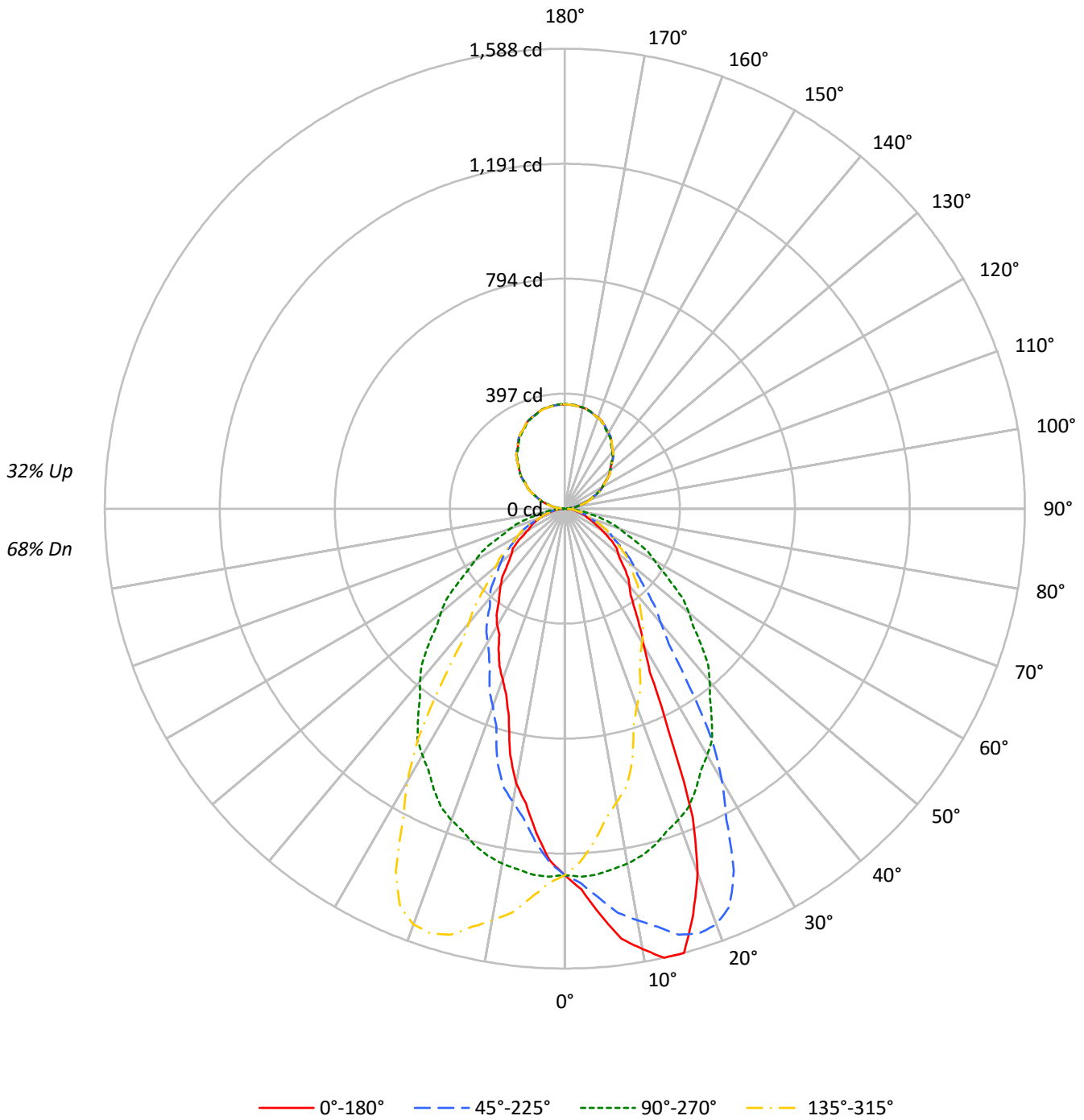
Lumens per Lamp: N/A
Luminaire Lumens: 3195.3 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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	105	105	105	105	94	94	94	83	83	83	73	73	73	68				
1	103	99	95	92	97	94	90	88	84	81	79	75	73	71	66	65	64	60				
2	95	88	82	77	89	83	78	74	75	71	67	67	64	61	60	57	55	52				
3	87	78	71	66	82	74	68	63	67	62	58	60	56	53	54	51	49	45				
4	80	70	63	57	76	67	60	55	60	55	51	55	50	47	49	46	43	40				
5	74	63	56	50	70	60	53	48	55	49	45	50	45	41	45	41	38	36				
6	69	57	50	44	65	55	48	43	50	44	40	46	41	37	41	37	34	32				
7	64	52	45	39	61	50	43	38	46	40	36	42	37	33	38	34	31	29				
8	60	48	41	35	57	46	39	34	42	37	32	39	34	30	35	31	28	26				
9	56	44	37	32	53	43	36	31	39	33	30	36	31	28	33	29	26	24				
10	53	41	34	29	50	39	33	29	36	31	27	34	29	26	31	27	24	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20423	20423	20423	20423
5°	22809	20551	18220	20551
10°	25306	20407	15795	20407
15°	26551	20107	12445	20107
20°	23017	19663	10768	19663
25°	15096	19057	9615	19057
30°	10161	18321	8701	18321
35°	8229	17394	7849	17394
40°	7318	16387	7263	16387
45°	6624	15203	6485	15203
50°	6028	14031	6006	14031
55°	5666	12732	5590	12732
60°	4740	11538	4682	11538
65°	3996	10476	4531	10476
70°	3696	9356	4277	9356
75°	3456	8141	3949	8141
80°	3189	6704	3515	6704
85°	2927	5298	3094	5298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.8
10°-20°	334.1	10.5
20°-30°	430.5	13.5
30°-40°	409.1	12.8
40°-50°	350.5	11.0
50°-60°	266.9	8.4
60°-70°	168.7	5.3
70°-80°	84.3	2.6
80°-90°	23.4	0.7
90°-100°	22.8	0.7
100°-110°	70.9	2.2
110°-120°	121.3	3.8
120°-130°	159.5	5.0
130°-140°	179.0	5.6
140°-150°	175.5	5.5
150°-160°	147.2	4.6
160°-170°	97.6	3.1
170°-180°	34.1	1.1
0°-30°	884.5	27.7
0°-40°	1293.7	40.5
0°-60°	1911.1	59.8
0°-90°	2187.4	68.5
90°-120°	215.0	6.7
90°-150°	729.0	22.8
90°-180°	1008.0	31.5
0°-180°	3195.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1265	1265	1265	1265	1265	
5°	1407	1268	1124	1268	1407	139
15°	1588	1203	744	1203	1588	428
25°	847	1070	540	1070	847	402
35°	418	882	398	882	418	267
45°	290	666	284	666	290	224
55°	201	452	199	452	201	177
65°	105	274	119	274	105	106
75°	55	130	63	130	55	59
85°	16	29	17	29	16	17
90°	10	0	10	0	10	5
95°	19	16	19	16	19	21
105°	68	65	68	65	68	71
115°	122	122	122	122	122	120
125°	178	177	178	177	178	158
135°	232	229	232	229	232	178
145°	281	278	281	278	281	176
155°	320	318	320	318	320	147
165°	346	346	346	346	346	98
175°	359	360	359	360	359	34
180°	360	360	360	360	360	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1316.2	1317.2	1318.4	1315.9	1315.9	1313.7	1309.2	1305.7	1295.8	1294.4	1294.4
5°	1407.3	1406.4	1408.2	1402.5	1394.6	1392.8	1384.4	1373.5	1362.0	1349.3	1346.6
7.5°	1497.8	1496.5	1493.0	1492.0	1485.9	1472.7	1459.2	1444.9	1425.9	1407.4	1398.1
10°	1543.5	1558.1	1549.2	1533.9	1537.0	1516.3	1505.3	1486.4	1470.6	1442.9	1436.8
12.5°	1588.5	1594.2	1591.5	1582.7	1578.7	1564.4	1549.6	1533.2	1504.0	1479.1	1457.5
15°	1588.4	1596.7	1598.9	1596.3	1598.4	1597.6	1589.7	1576.1	1550.6	1523.3	1499.6
17.5°	1471.1	1476.9	1491.3	1501.1	1513.4	1539.4	1552.2	1557.2	1553.4	1537.9	1521.2
20°	1339.6	1329.9	1370.4	1391.0	1408.6	1452.5	1490.3	1504.9	1528.1	1527.7	1523.3
22.5°	1153.2	1155.5	1193.9	1218.4	1269.7	1313.6	1356.8	1411.4	1456.4	1486.2	1503.7
25°	847.4	864.1	902.3	935.7	992.8	1074.6	1148.8	1235.0	1316.3	1380.4	1441.6
27.5°	636.4	637.7	668.0	698.8	732.7	799.7	893.2	996.1	1112.0	1207.6	1317.7
30°	545.0	542.3	555.1	574.0	603.0	654.9	725.1	826.3	941.8	1086.0	1214.4
32.5°	480.3	480.4	490.1	504.0	528.1	563.1	611.2	693.4	802.6	944.3	1094.8
35°	417.5	417.1	424.1	434.2	444.4	466.7	499.7	542.8	617.9	750.2	904.0
37.5°	372.6	374.4	377.9	384.2	395.4	407.9	427.7	456.6	510.1	588.3	717.6
40°	347.2	348.1	352.9	358.2	364.8	374.4	390.7	414.0	453.1	515.6	610.0
42.5°	324.0	324.9	328.3	333.2	338.4	348.1	361.5	381.7	413.4	462.1	540.0
45°	290.1	290.1	293.2	295.3	301.1	309.9	320.8	337.5	359.6	395.5	447.4
47.5°	258.2	258.3	260.4	264.2	267.8	274.6	285.4	299.0	315.0	342.9	387.2
50°	240.0	240.4	241.7	244.8	247.0	253.1	261.5	273.4	290.1	311.6	348.5
52.5°	225.2	224.9	226.6	227.9	229.5	233.8	240.0	250.6	265.4	284.2	314.8
55°	201.3	199.5	202.2	204.4	205.7	207.4	210.9	217.6	230.3	246.2	269.0
57.5°	171.4	170.7	172.5	174.6	178.7	183.5	186.4	190.6	197.3	208.6	231.3
60°	146.8	146.8	150.8	152.1	156.9	163.1	169.2	172.7	179.3	186.8	203.5
62.5°	125.0	125.4	127.2	128.5	131.2	138.8	147.4	155.2	161.4	168.5	179.6
65°	104.6	105.5	105.5	106.3	108.1	109.9	113.4	119.5	130.5	140.6	149.0
67.5°	88.8	89.0	89.3	90.1	90.7	92.6	93.9	96.7	99.3	108.8	119.2
70°	78.3	79.6	79.1	80.0	80.4	81.3	83.1	84.4	88.3	90.6	96.7
72.5°	68.4	69.3	69.2	69.8	70.9	71.1	72.5	73.9	76.4	78.3	81.5
75°	55.4	54.9	55.4	56.2	56.7	57.2	57.2	58.9	60.2	62.0	64.1
77.5°	42.7	43.1	43.0	43.1	43.2	44.0	43.9	44.8	46.1	46.9	48.0
80°	34.3	34.7	34.3	34.7	35.1	35.6	35.1	35.6	36.9	37.8	37.8
82.5°	26.5	26.6	26.9	26.9	27.0	27.1	27.8	27.9	28.8	28.7	29.0
85°	15.8	15.4	15.4	15.4	15.8	16.3	15.8	15.8	16.3	16.3	16.3
87.5°	7.7	8.0	8.0	8.0	8.0	8.0	8.0	8.4	8.1	8.4	7.8
90°	10.3	10.2	10.2	10.2	10.1	10.1	10.2	10.4	10.5	10.7	9.1
92.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.7	9.7	9.7	9.6	9.3
95°	18.9	19.0	19.1	19.3	19.4	19.5	19.5	19.5	19.5	19.5	19.4
97.5°	32.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.5
100°	41.7	41.8	41.8	41.8	41.9	42.0	42.0	42.0	42.0	42.0	41.8
102.5°	51.9	52.0	52.0	52.1	52.2	52.2	52.1	52.1	52.0	51.9	51.7
105°	67.5	67.5	67.5	67.5	67.5	67.5	67.3	67.2	67.1	66.9	66.8
107.5°	82.2	82.6	82.9	83.2	83.5	83.6	83.6	83.5	83.4	83.4	83.4
110°	93.7	93.9	94.1	94.3	94.5	94.6	94.6	94.6	94.6	94.6	94.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	104.6	104.8	105.0	105.1	105.2	105.4	105.6	105.7	105.9	106.1	106.1
115°	121.7	121.9	122.1	122.3	122.5	122.6	122.7	122.8	122.9	122.9	123.0
117.5°	137.9	138.1	138.4	138.5	138.7	138.9	139.1	139.2	139.4	139.6	139.9
120°	149.4	149.6	149.7	150.0	150.2	150.2	150.2	150.2	150.2	150.2	150.8
122.5°	160.6	160.7	160.8	161.0	161.2	161.3	161.4	161.6	161.8	162.0	162.3
125°	177.6	177.7	177.8	177.9	177.9	178.1	178.2	178.5	178.7	178.8	179.1
127.5°	193.2	193.5	193.6	193.9	194.1	194.3	194.6	194.8	195.0	195.3	195.5
130°	204.4	204.7	204.9	205.3	205.5	205.7	205.9	206.0	206.1	206.2	206.4
132.5°	215.2	215.3	215.6	215.8	216.0	216.3	216.5	216.8	217.1	217.4	217.4
135°	231.8	232.0	232.2	232.4	232.6	232.7	232.8	232.9	232.9	233.0	232.9
137.5°	246.8	247.2	247.5	247.7	248.0	248.1	248.1	248.2	248.3	248.3	248.1
140°	257.4	257.6	257.9	258.1	258.4	258.6	258.6	258.6	258.6	258.6	258.2
142.5°	266.8	267.1	267.3	267.7	267.9	268.0	267.9	267.9	267.9	267.8	267.6
145°	281.0	281.4	281.6	281.9	282.1	282.2	282.1	282.1	282.1	282.0	281.5
147.5°	293.8	294.0	294.3	294.5	294.8	294.9	294.7	294.5	294.5	294.3	294.0
150°	302.0	302.3	302.5	302.6	302.9	302.9	302.6	302.5	302.3	302.0	301.8
152.5°	309.9	310.1	310.4	310.6	310.9	310.9	310.6	310.4	310.1	309.9	309.5
155°	320.3	320.6	320.7	320.9	321.2	321.1	320.7	320.4	320.0	319.7	319.5
157.5°	329.3	329.7	329.9	330.3	330.6	330.5	330.1	329.6	329.2	328.7	328.6
160°	334.9	335.2	335.4	335.7	336.0	336.0	335.5	335.1	334.7	334.3	334.2
162.5°	339.8	340.1	340.4	340.8	341.0	341.0	340.5	340.1	339.7	339.1	339.1
165°	346.2	346.5	346.8	347.2	347.5	347.4	347.0	346.5	346.0	345.5	345.5
167.5°	351.4	351.7	352.1	352.5	352.8	352.8	352.2	351.8	351.3	350.9	350.9
170°	354.0	354.5	354.9	355.3	355.7	355.7	355.2	354.7	354.2	353.8	353.9
172.5°	356.3	356.7	357.1	357.5	357.9	357.8	357.4	356.9	356.5	355.9	356.0
175°	358.6	359.0	359.5	359.9	360.2	360.2	359.7	359.3	358.8	358.3	358.4
177.5°	359.7	360.1	360.4	360.7	361.0	361.0	360.7	360.4	360.1	359.7	359.8
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1295.1	1292.3	1289.9	1283.5	1280.4	1273.3	1272.3	1272.0	1262.7	1254.0	1251.5
5°	1339.6	1332.6	1322.0	1309.7	1296.9	1283.8	1275.0	1268.0	1250.3	1233.6	1224.0
7.5°	1384.4	1369.3	1351.1	1327.8	1308.4	1286.6	1270.4	1255.9	1231.0	1207.0	1190.9
10°	1417.8	1393.2	1369.1	1337.0	1311.9	1287.3	1264.5	1244.7	1216.5	1184.9	1162.4
12.5°	1438.6	1411.5	1378.2	1346.8	1314.4	1283.1	1252.5	1227.1	1194.0	1161.3	1134.7
15°	1466.6	1437.6	1397.1	1352.4	1310.6	1269.7	1234.6	1202.9	1159.9	1120.8	1088.2
17.5°	1489.5	1449.7	1406.2	1354.4	1306.1	1254.0	1208.8	1168.4	1120.4	1073.2	1034.9
20°	1496.9	1457.4	1407.3	1355.4	1298.3	1237.2	1188.4	1144.4	1093.0	1041.6	997.6
22.5°	1492.4	1461.6	1405.8	1343.8	1285.3	1221.3	1166.2	1115.3	1058.3	1005.7	954.8
25°	1461.4	1450.8	1398.1	1330.3	1263.6	1189.3	1125.6	1069.7	1004.7	948.5	893.0
27.5°	1389.0	1411.8	1379.1	1307.0	1232.7	1153.1	1081.4	1017.9	950.4	887.1	831.9
30°	1319.4	1371.7	1357.6	1290.8	1207.7	1129.5	1049.1	982.7	910.7	845.6	791.1
32.5°	1224.1	1310.5	1324.2	1268.3	1182.4	1096.5	1012.2	946.2	870.9	802.4	749.2
35°	1072.4	1201.6	1260.9	1225.3	1139.2	1046.5	959.4	882.5	806.9	739.3	686.5
37.5°	891.4	1067.4	1166.2	1168.8	1089.7	993.2	898.5	822.2	744.8	678.3	621.3
40°	774.0	964.7	1093.5	1122.1	1055.2	951.1	855.2	777.5	701.9	636.8	571.4
42.5°	668.5	858.5	1016.8	1066.5	1013.4	909.9	813.8	732.5	659.0	597.4	530.5
45°	540.6	706.7	881.2	970.0	940.6	844.7	743.2	665.8	596.8	543.6	479.5
47.5°	456.0	573.1	741.9	862.0	861.5	774.0	674.2	600.1	536.1	486.3	434.3
50°	407.9	509.8	652.6	788.9	800.3	726.9	632.0	558.6	498.9	446.5	404.8
52.5°	364.6	448.7	577.0	707.7	740.2	676.7	584.5	516.8	458.7	410.7	374.9
55°	308.1	373.2	470.7	592.9	642.1	597.3	515.6	452.3	405.2	364.8	334.0
57.5°	260.6	309.4	387.7	486.1	543.4	515.2	447.7	396.3	356.1	319.5	295.2
60°	230.7	270.7	337.1	419.3	482.6	462.8	405.2	357.3	323.0	291.4	268.5
62.5°	202.6	236.9	293.9	360.6	418.6	410.4	363.3	323.2	293.2	264.3	245.0
65°	163.1	188.1	232.5	284.8	331.4	335.4	301.5	274.2	247.5	224.5	207.4
67.5°	129.8	146.2	177.5	221.5	256.4	268.9	248.2	227.4	206.1	188.5	173.6
70°	109.4	122.6	145.5	181.1	213.2	226.4	214.5	198.2	179.8	165.2	152.5
72.5°	88.7	101.5	118.4	144.5	172.0	186.2	182.1	170.5	155.5	143.4	131.4
75°	66.8	70.8	82.2	99.8	121.3	133.6	136.7	130.5	118.6	109.4	102.4
77.5°	49.4	51.7	57.3	66.5	80.5	91.5	96.0	95.3	87.1	81.7	75.2
80°	39.5	40.9	43.5	47.4	58.0	69.0	72.1	72.1	66.4	64.1	57.6
82.5°	30.0	31.0	32.6	34.8	39.7	49.3	52.8	53.5	49.9	46.9	41.8
85°	17.1	16.7	17.6	18.9	19.8	22.4	27.7	28.6	27.7	24.2	22.8
87.5°	7.5	7.6	7.2	6.7	6.9	7.1	8.7	10.2	9.0	8.1	7.6
90°	7.7	6.2	4.7	3.5	2.8	1.9	1.1	0.3	1.1	1.9	2.8
92.5°	9.0	8.6	8.3	7.8	7.2	6.6	6.0	5.4	6.0	6.6	7.2
95°	19.2	19.0	18.9	18.5	17.8	17.1	16.5	15.8	16.5	17.1	17.8
97.5°	32.2	31.9	31.7	31.3	30.7	30.0	29.5	28.9	29.5	30.0	30.7
100°	41.6	41.3	41.2	40.8	40.3	39.7	39.2	38.7	39.2	39.7	40.3
102.5°	51.4	51.1	51.0	50.5	50.1	49.7	49.2	48.8	49.2	49.7	50.1
105°	66.6	66.6	66.4	66.2	66.0	65.8	65.6	65.4	65.6	65.8	66.0
107.5°	83.4	83.4	83.4	83.3	83.0	82.7	82.4	82.1	82.4	82.7	83.0
110°	94.6	94.6	94.6	94.4	94.0	93.6	93.2	92.8	93.2	93.6	94.0



TEST NUMBER: P331676-935

CATALOG NUMBER: SA2XXRDIP-C675D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	106.2	106.2	106.2	106.1	105.6	105.3	104.9	104.4	104.9	105.3	105.6
115°	123.1	123.3	123.5	123.3	122.9	122.5	122.1	121.7	122.1	122.5	122.9
117.5°	140.3	140.7	141.1	141.0	140.4	139.9	139.4	138.8	139.4	139.9	140.4
120°	151.4	151.9	152.4	152.4	151.9	151.4	150.8	150.2	150.8	151.4	151.9
122.5°	162.7	163.1	163.5	163.3	162.6	162.0	161.4	160.7	161.4	162.0	162.6
125°	179.3	179.4	179.7	179.4	178.8	178.2	177.6	177.0	177.6	178.2	178.8
127.5°	195.8	196.0	196.2	196.0	195.2	194.5	193.7	193.0	193.7	194.5	195.2
130°	206.6	206.6	206.8	206.4	205.5	204.7	203.8	202.9	203.8	204.7	205.5
132.5°	217.4	217.3	217.3	217.0	216.2	215.5	214.8	214.1	214.8	215.5	216.2
135°	232.7	232.6	232.5	232.0	231.3	230.6	229.8	229.0	229.8	230.6	231.3
137.5°	248.0	247.8	247.6	247.3	246.7	246.0	245.4	244.8	245.4	246.0	246.7
140°	257.9	257.5	257.2	256.8	256.1	255.5	254.9	254.3	254.9	255.5	256.1
142.5°	267.3	267.1	266.9	266.5	265.9	265.3	264.7	264.1	264.7	265.3	265.9
145°	281.2	280.8	280.3	279.9	279.5	279.0	278.5	278.0	278.5	279.0	279.5
147.5°	293.8	293.4	293.2	292.7	292.2	291.6	291.1	290.5	291.1	291.6	292.2
150°	301.5	301.3	301.0	300.7	300.2	299.8	299.5	299.0	299.5	299.8	300.2
152.5°	309.2	308.8	308.6	308.2	307.8	307.4	306.9	306.6	306.9	307.4	307.8
155°	319.3	319.1	318.9	318.7	318.5	318.3	318.1	317.9	318.1	318.3	318.5
157.5°	328.5	328.4	328.2	328.1	328.0	327.8	327.7	327.5	327.7	327.8	328.0
160°	334.2	334.1	334.1	333.9	333.8	333.6	333.6	333.4	333.6	333.6	333.8
162.5°	339.1	339.0	338.9	338.9	338.8	338.8	338.8	338.7	338.8	338.8	338.8
165°	345.5	345.5	345.5	345.6	345.7	345.7	345.8	345.9	345.8	345.7	345.7
167.5°	350.9	350.9	350.9	351.0	351.2	351.5	351.6	351.8	351.6	351.5	351.2
170°	353.9	354.0	354.0	354.2	354.4	354.6	354.8	355.0	354.8	354.6	354.4
172.5°	356.1	356.2	356.2	356.4	356.5	356.8	357.0	357.1	357.0	356.8	356.5
175°	358.6	358.8	358.9	359.0	359.2	359.5	359.6	359.9	359.6	359.5	359.2
177.5°	360.0	360.1	360.2	360.3	360.5	360.6	360.8	360.9	360.8	360.6	360.5
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331676-935

CATALOG NUMBER: SA2XXRDIP-C675D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1247.0	1244.5	1239.9	1232.9	1228.6	1221.2	1216.3	1219.2	1219.9	1219.2	1218.5
5°	1213.5	1204.2	1191.5	1179.1	1167.8	1155.5	1148.4	1145.3	1139.2	1135.7	1133.9
7.5°	1172.9	1157.0	1139.0	1117.6	1099.3	1080.3	1070.6	1065.7	1053.1	1046.3	1040.3
10°	1142.7	1117.7	1099.7	1071.5	1054.4	1029.3	1012.2	1012.6	995.5	985.8	978.8
12.5°	1109.3	1081.8	1051.8	1026.5	1002.6	982.6	961.9	953.6	935.3	926.0	907.1
15°	1054.0	1021.8	990.2	955.9	931.8	900.5	870.6	834.1	804.7	779.2	772.2
17.5°	993.4	953.7	922.0	881.8	840.3	787.8	753.2	732.0	714.3	700.9	690.8
20°	951.9	911.5	877.7	817.0	761.2	725.7	700.2	683.9	665.4	650.9	643.0
22.5°	908.4	866.2	820.0	752.3	708.9	680.3	657.5	638.9	626.4	615.0	607.9
25°	846.4	800.3	724.3	677.7	642.6	612.7	596.8	585.4	572.2	556.8	549.8
27.5°	781.1	707.7	653.1	618.5	584.9	565.4	551.2	534.2	522.4	515.5	508.2
30°	732.2	658.8	616.2	578.4	554.7	533.1	516.4	506.8	495.3	483.5	478.6
32.5°	677.7	619.1	578.2	546.7	522.6	504.3	491.1	475.4	467.2	459.9	449.8
35°	610.0	565.7	528.3	502.8	479.9	465.0	449.6	440.4	425.4	419.3	415.3
37.5°	552.7	514.2	486.4	459.4	441.3	424.8	415.4	400.7	394.3	385.7	377.4
40°	520.4	482.6	455.7	433.8	413.5	401.2	389.4	377.5	367.8	363.9	353.8
42.5°	487.3	456.6	429.7	405.6	392.1	379.1	364.1	355.4	345.3	339.0	332.7
45°	441.7	414.5	391.6	371.8	356.9	343.3	333.6	319.1	313.4	300.6	295.3
47.5°	401.7	376.3	354.5	335.7	321.1	312.2	298.1	286.7	277.6	269.8	263.0
50°	373.2	352.1	331.0	314.3	301.1	288.3	273.8	268.1	254.0	250.0	246.2
52.5°	347.2	327.1	307.7	291.4	278.2	265.8	253.0	245.6	236.1	232.1	229.3
55°	310.7	291.4	272.9	258.4	245.2	232.5	224.5	215.3	210.9	207.8	204.4
57.5°	274.1	256.8	242.6	227.9	214.6	204.6	195.4	189.9	185.3	181.2	177.0
60°	251.0	234.3	221.5	207.8	194.2	185.9	178.9	172.3	167.0	160.8	159.1
62.5°	226.4	211.7	200.1	186.8	175.0	167.3	160.6	154.4	148.0	139.1	136.6
65°	192.5	181.1	168.8	157.8	147.2	139.7	130.1	123.0	120.5	119.5	119.1
67.5°	162.0	151.1	140.5	129.3	119.7	112.8	107.9	106.8	105.0	104.4	103.2
70°	141.5	131.4	120.9	110.3	101.1	99.8	98.0	96.3	94.0	93.2	92.3
72.5°	123.2	112.8	102.2	93.8	89.8	88.2	86.4	84.6	83.2	82.3	81.7
75°	94.5	84.8	77.8	74.7	72.5	71.2	68.5	67.2	66.4	65.0	64.6
77.5°	68.0	62.6	59.3	57.4	55.1	53.7	52.2	50.9	49.9	49.7	49.0
80°	51.8	49.2	47.0	44.4	43.5	41.8	41.3	40.0	40.5	39.1	39.1
82.5°	40.3	36.9	35.0	33.8	33.0	31.6	31.1	30.5	30.6	29.6	29.6
85°	20.7	19.8	18.9	18.0	18.0	16.7	17.1	16.7	16.7	15.8	15.4
87.5°	7.4	7.2	6.9	7.1	7.5	7.4	7.4	7.0	7.0	7.0	6.5
90°	3.5	4.7	6.2	7.7	9.1	10.7	10.5	10.4	10.2	10.1	10.1
92.5°	7.8	8.3	8.6	9.0	9.3	9.6	9.7	9.7	9.7	9.8	9.8
95°	18.5	18.9	19.0	19.2	19.4	19.5	19.5	19.5	19.5	19.5	19.4
97.5°	31.3	31.7	31.9	32.2	32.5	32.7	32.7	32.7	32.7	32.7	32.7
100°	40.8	41.2	41.3	41.6	41.8	42.0	42.0	42.0	42.0	42.0	41.9
102.5°	50.5	51.0	51.1	51.4	51.7	51.9	52.0	52.1	52.1	52.2	52.2
105°	66.2	66.4	66.6	66.6	66.8	66.9	67.1	67.2	67.3	67.5	67.5
107.5°	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.6	83.6	83.5
110°	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.5



TEST NUMBER: P331676-935

CATALOG NUMBER: SA2XXRDIP-C675D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	106.1	106.2	106.2	106.2	106.1	106.1	105.9	105.7	105.6	105.4	105.2
115°	123.3	123.5	123.3	123.1	123.0	122.9	122.9	122.8	122.7	122.6	122.5
117.5°	141.0	141.1	140.7	140.3	139.9	139.6	139.4	139.2	139.1	138.9	138.7
120°	152.4	152.4	151.9	151.4	150.8	150.2	150.2	150.2	150.2	150.2	150.2
122.5°	163.3	163.5	163.1	162.7	162.3	162.0	161.8	161.6	161.4	161.3	161.2
125°	179.4	179.7	179.4	179.3	179.1	178.8	178.7	178.5	178.2	178.1	177.9
127.5°	196.0	196.2	196.0	195.8	195.5	195.3	195.0	194.8	194.6	194.3	194.1
130°	206.4	206.8	206.6	206.6	206.4	206.2	206.1	206.0	205.9	205.7	205.5
132.5°	217.0	217.3	217.3	217.4	217.4	217.4	217.1	216.8	216.5	216.3	216.0
135°	232.0	232.5	232.6	232.7	232.9	233.0	232.9	232.9	232.8	232.7	232.6
137.5°	247.3	247.6	247.8	248.0	248.1	248.3	248.3	248.2	248.1	248.1	248.0
140°	256.8	257.2	257.5	257.9	258.2	258.6	258.6	258.6	258.6	258.6	258.4
142.5°	266.5	266.9	267.1	267.3	267.6	267.8	267.9	267.9	267.9	268.0	267.9
145°	279.9	280.3	280.8	281.2	281.5	282.0	282.1	282.1	282.1	282.2	282.1
147.5°	292.7	293.2	293.4	293.8	294.0	294.3	294.5	294.5	294.7	294.9	294.8
150°	300.7	301.0	301.3	301.5	301.8	302.0	302.3	302.5	302.6	302.9	302.9
152.5°	308.2	308.6	308.8	309.2	309.5	309.9	310.1	310.4	310.6	310.9	310.9
155°	318.7	318.9	319.1	319.3	319.5	319.7	320.0	320.4	320.7	321.1	321.2
157.5°	328.1	328.2	328.4	328.5	328.6	328.7	329.2	329.6	330.1	330.5	330.6
160°	333.9	334.1	334.1	334.2	334.2	334.3	334.7	335.1	335.5	336.0	336.0
162.5°	338.9	338.9	339.0	339.1	339.1	339.1	339.7	340.1	340.5	341.0	341.0
165°	345.6	345.5	345.5	345.5	345.5	345.5	346.0	346.5	347.0	347.4	347.5
167.5°	351.0	350.9	350.9	350.9	350.9	350.9	351.3	351.8	352.2	352.8	352.8
170°	354.2	354.0	354.0	353.9	353.9	353.8	354.2	354.7	355.2	355.7	355.7
172.5°	356.4	356.2	356.2	356.1	356.0	355.9	356.5	356.9	357.4	357.8	357.9
175°	359.0	358.9	358.8	358.6	358.4	358.3	358.8	359.3	359.7	360.2	360.2
177.5°	360.3	360.2	360.1	360.0	359.8	359.7	360.1	360.4	360.7	361.0	361.0
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331676-935

CATALOG NUMBER: SA2XXRDIP-C675D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1214.6	1215.3	1214.3	1215.0	1214.3	1215.3	1214.6	1218.5	1219.2	1219.9	1219.2
5°	1131.7	1126.4	1125.6	1124.2	1125.6	1126.4	1131.7	1133.9	1135.7	1139.2	1145.3
7.5°	1032.8	1031.9	1029.8	1026.7	1029.8	1031.9	1032.8	1040.3	1046.3	1053.1	1065.7
10°	969.1	966.9	966.5	963.4	966.5	966.9	969.1	978.8	985.8	995.5	1012.6
12.5°	894.6	880.4	878.9	871.2	878.9	880.4	894.6	907.1	926.0	935.3	953.6
15°	761.6	759.1	750.2	744.5	750.2	759.1	761.6	772.2	779.2	804.7	834.1
17.5°	685.7	677.1	674.3	673.1	674.3	677.1	685.7	690.8	700.9	714.3	732.0
20°	636.8	629.0	627.6	626.7	627.6	629.0	636.8	643.0	650.9	665.4	683.9
22.5°	603.0	594.8	591.4	588.8	591.4	594.8	603.0	607.9	615.0	626.4	638.9
25°	545.4	542.3	540.6	539.7	540.6	542.3	545.4	549.8	556.8	572.2	585.4
27.5°	500.3	493.5	492.2	490.0	492.2	493.5	500.3	508.2	515.5	522.4	534.2
30°	474.7	472.4	469.4	466.7	469.4	472.4	474.7	478.6	483.5	495.3	506.8
32.5°	444.4	442.6	439.9	438.6	439.9	442.6	444.4	449.8	459.9	467.2	475.4
35°	411.0	404.8	402.2	398.2	402.2	404.8	411.0	415.3	419.3	425.4	440.4
37.5°	375.5	372.3	368.6	369.9	368.6	372.3	375.5	377.4	385.7	394.3	400.7
40°	348.1	345.9	345.0	344.6	345.0	345.9	348.1	353.8	363.9	367.8	377.5
42.5°	326.3	320.2	318.0	317.9	318.0	320.2	326.3	332.7	339.0	345.3	355.4
45°	293.2	287.4	283.4	284.0	283.4	287.4	293.2	295.3	300.6	313.4	319.1
47.5°	259.2	259.1	256.6	257.4	256.6	259.1	259.2	263.0	269.8	277.6	286.7
50°	243.1	240.4	238.7	239.1	238.7	240.4	243.1	246.2	250.0	254.0	268.1
52.5°	227.6	225.3	223.9	225.8	223.9	225.3	227.6	229.3	232.1	236.1	245.6
55°	202.2	199.5	199.1	198.6	199.1	199.5	202.2	204.4	207.8	210.9	215.3
57.5°	173.7	172.0	169.4	168.2	169.4	172.0	173.7	177.0	181.2	185.3	189.9
60°	153.3	149.9	145.5	145.0	145.5	149.9	153.3	159.1	160.8	167.0	172.3
62.5°	134.7	134.1	133.2	133.1	133.2	134.1	134.7	136.6	139.1	148.0	154.4
65°	118.2	117.8	118.2	118.6	118.2	117.8	118.2	119.1	119.5	120.5	123.0
67.5°	103.1	102.2	101.4	101.8	101.4	102.2	103.1	103.2	104.4	105.0	106.8
70°	91.4	91.0	90.6	90.6	90.6	91.0	91.4	92.3	93.2	94.0	96.3
72.5°	80.2	80.1	79.6	79.3	79.6	80.1	80.2	81.7	82.3	83.2	84.6
75°	64.1	63.3	63.3	63.3	63.3	63.3	64.1	64.6	65.0	66.4	67.2
77.5°	48.9	48.5	48.0	47.6	48.0	48.5	48.9	49.0	49.7	49.9	50.9
80°	38.7	38.2	37.8	37.8	37.8	38.2	38.7	39.1	39.1	40.5	40.0
82.5°	29.5	29.1	29.0	28.7	29.0	29.1	29.5	29.6	29.6	30.6	30.5
85°	15.8	16.3	15.8	16.7	15.8	16.3	15.8	15.4	15.8	16.7	16.7
87.5°	6.6	6.3	6.6	6.3	6.6	6.3	6.6	6.5	7.0	7.0	7.0
90°	10.2	10.2	10.2	10.3	10.2	10.2	10.2	10.1	10.1	10.2	10.4
92.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.7	9.7
95°	19.3	19.1	19.0	18.9	19.0	19.1	19.3	19.4	19.5	19.5	19.5
97.5°	32.7	32.7	32.7	32.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7
100°	41.8	41.8	41.8	41.7	41.8	41.8	41.8	41.9	42.0	42.0	42.0
102.5°	52.1	52.0	52.0	51.9	52.0	52.0	52.1	52.2	52.2	52.1	52.1
105°	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.3	67.2
107.5°	83.2	82.9	82.6	82.2	82.6	82.9	83.2	83.5	83.6	83.6	83.5
110°	94.3	94.1	93.9	93.7	93.9	94.1	94.3	94.5	94.6	94.6	94.6



TEST NUMBER: P331676-935

CATALOG NUMBER: SA2XXRDIP-C675D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	105.1	105.0	104.8	104.6	104.8	105.0	105.1	105.2	105.4	105.6	105.7
115°	122.3	122.1	121.9	121.7	121.9	122.1	122.3	122.5	122.6	122.7	122.8
117.5°	138.5	138.4	138.1	137.9	138.1	138.4	138.5	138.7	138.9	139.1	139.2
120°	150.0	149.7	149.6	149.4	149.6	149.7	150.0	150.2	150.2	150.2	150.2
122.5°	161.0	160.8	160.7	160.6	160.7	160.8	161.0	161.2	161.3	161.4	161.6
125°	177.9	177.8	177.7	177.6	177.7	177.8	177.9	177.9	178.1	178.2	178.5
127.5°	193.9	193.6	193.5	193.2	193.5	193.6	193.9	194.1	194.3	194.6	194.8
130°	205.3	204.9	204.7	204.4	204.7	204.9	205.3	205.5	205.7	205.9	206.0
132.5°	215.8	215.6	215.3	215.2	215.3	215.6	215.8	216.0	216.3	216.5	216.8
135°	232.4	232.2	232.0	231.8	232.0	232.2	232.4	232.6	232.7	232.8	232.9
137.5°	247.7	247.5	247.2	246.8	247.2	247.5	247.7	248.0	248.1	248.1	248.2
140°	258.1	257.9	257.6	257.4	257.6	257.9	258.1	258.4	258.6	258.6	258.6
142.5°	267.7	267.3	267.1	266.8	267.1	267.3	267.7	267.9	268.0	267.9	267.9
145°	281.9	281.6	281.4	281.0	281.4	281.6	281.9	282.1	282.2	282.1	282.1
147.5°	294.5	294.3	294.0	293.8	294.0	294.3	294.5	294.8	294.9	294.7	294.5
150°	302.6	302.5	302.3	302.0	302.3	302.5	302.6	302.9	302.9	302.6	302.5
152.5°	310.6	310.4	310.1	309.9	310.1	310.4	310.6	310.9	310.9	310.6	310.4
155°	320.9	320.7	320.6	320.3	320.6	320.7	320.9	321.2	321.1	320.7	320.4
157.5°	330.3	329.9	329.7	329.3	329.7	329.9	330.3	330.6	330.5	330.1	329.6
160°	335.7	335.4	335.2	334.9	335.2	335.4	335.7	336.0	336.0	335.5	335.1
162.5°	340.8	340.4	340.1	339.8	340.1	340.4	340.8	341.0	341.0	340.5	340.1
165°	347.2	346.8	346.5	346.2	346.5	346.8	347.2	347.5	347.4	347.0	346.5
167.5°	352.5	352.1	351.7	351.4	351.7	352.1	352.5	352.8	352.8	352.2	351.8
170°	355.3	354.9	354.5	354.0	354.5	354.9	355.3	355.7	355.7	355.2	354.7
172.5°	357.5	357.1	356.7	356.3	356.7	357.1	357.5	357.9	357.8	357.4	356.9
175°	359.9	359.5	359.0	358.6	359.0	359.5	359.9	360.2	360.2	359.7	359.3
177.5°	360.7	360.4	360.1	359.7	360.1	360.4	360.7	361.0	361.0	360.7	360.4
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331676-935

CATALOG NUMBER: SA2XXRDIP-C675D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1216.3	1221.2	1228.6	1232.9	1239.9	1244.5	1247.0	1251.5	1254.0	1262.7	1272.0
5°	1148.4	1155.5	1167.8	1179.1	1191.5	1204.2	1213.5	1224.0	1233.6	1250.3	1268.0
7.5°	1070.6	1080.3	1099.3	1117.6	1139.0	1157.0	1172.9	1190.9	1207.0	1231.0	1255.9
10°	1012.2	1029.3	1054.4	1071.5	1099.7	1117.7	1142.7	1162.4	1184.9	1216.5	1244.7
12.5°	961.9	982.6	1002.6	1026.5	1051.8	1081.8	1109.3	1134.7	1161.3	1194.0	1227.1
15°	870.6	900.5	931.8	955.9	990.2	1021.8	1054.0	1088.2	1120.8	1159.9	1202.9
17.5°	753.2	787.8	840.3	881.8	922.0	953.7	993.4	1034.9	1073.2	1120.4	1168.4
20°	700.2	725.7	761.2	817.0	877.7	911.5	951.9	997.6	1041.6	1093.0	1144.4
22.5°	657.5	680.3	708.9	752.3	820.0	866.2	908.4	954.8	1005.7	1058.3	1115.3
25°	596.8	612.7	642.6	677.7	724.3	800.3	846.4	893.0	948.5	1004.7	1069.7
27.5°	551.2	565.4	584.9	618.5	653.1	707.7	781.1	831.9	887.1	950.4	1017.9
30°	516.4	533.1	554.7	578.4	616.2	658.8	732.2	791.1	845.6	910.7	982.7
32.5°	491.1	504.3	522.6	546.7	578.2	619.1	677.7	749.2	802.4	870.9	946.2
35°	449.6	465.0	479.9	502.8	528.3	565.7	610.0	686.5	739.3	806.9	882.5
37.5°	415.4	424.8	441.3	459.4	486.4	514.2	552.7	621.3	678.3	744.8	822.2
40°	389.4	401.2	413.5	433.8	455.7	482.6	520.4	571.4	636.8	701.9	777.5
42.5°	364.1	379.1	392.1	405.6	429.7	456.6	487.3	530.5	597.4	659.0	732.5
45°	333.6	343.3	356.9	371.8	391.6	414.5	441.7	479.5	543.6	596.8	665.8
47.5°	298.1	312.2	321.1	335.7	354.5	376.3	401.7	434.3	486.3	536.1	600.1
50°	273.8	288.3	301.1	314.3	331.0	352.1	373.2	404.8	446.5	498.9	558.6
52.5°	253.0	265.8	278.2	291.4	307.7	327.1	347.2	374.9	410.7	458.7	516.8
55°	224.5	232.5	245.2	258.4	272.9	291.4	310.7	334.0	364.8	405.2	452.3
57.5°	195.4	204.6	214.6	227.9	242.6	256.8	274.1	295.2	319.5	356.1	396.3
60°	178.9	185.9	194.2	207.8	221.5	234.3	251.0	268.5	291.4	323.0	357.3
62.5°	160.6	167.3	175.0	186.8	200.1	211.7	226.4	245.0	264.3	293.2	323.2
65°	130.1	139.7	147.2	157.8	168.8	181.1	192.5	207.4	224.5	247.5	274.2
67.5°	107.9	112.8	119.7	129.3	140.5	151.1	162.0	173.6	188.5	206.1	227.4
70°	98.0	99.8	101.1	110.3	120.9	131.4	141.5	152.5	165.2	179.8	198.2
72.5°	86.4	88.2	89.8	93.8	102.2	112.8	123.2	131.4	143.4	155.5	170.5
75°	68.5	71.2	72.5	74.7	77.8	84.8	94.5	102.4	109.4	118.6	130.5
77.5°	52.2	53.7	55.1	57.4	59.3	62.6	68.0	75.2	81.7	87.1	95.3
80°	41.3	41.8	43.5	44.4	47.0	49.2	51.8	57.6	64.1	66.4	72.1
82.5°	31.1	31.6	33.0	33.8	35.0	36.9	40.3	41.8	46.9	49.9	53.5
85°	17.1	16.7	18.0	18.0	18.9	19.8	20.7	22.8	24.2	27.7	28.6
87.5°	7.4	7.4	7.5	7.1	6.9	7.2	7.4	7.6	8.1	9.0	10.2
90°	10.5	10.7	9.1	7.7	6.2	4.7	3.5	2.8	1.9	1.1	0.3
92.5°	9.7	9.6	9.3	9.0	8.6	8.3	7.8	7.2	6.6	6.0	5.4
95°	19.5	19.5	19.4	19.2	19.0	18.9	18.5	17.8	17.1	16.5	15.8
97.5°	32.7	32.7	32.5	32.2	31.9	31.7	31.3	30.7	30.0	29.5	28.9
100°	42.0	42.0	41.8	41.6	41.3	41.2	40.8	40.3	39.7	39.2	38.7
102.5°	52.0	51.9	51.7	51.4	51.1	51.0	50.5	50.1	49.7	49.2	48.8
105°	67.1	66.9	66.8	66.6	66.6	66.4	66.2	66.0	65.8	65.6	65.4
107.5°	83.4	83.4	83.4	83.4	83.4	83.4	83.3	83.0	82.7	82.4	82.1
110°	94.6	94.6	94.6	94.6	94.6	94.6	94.4	94.0	93.6	93.2	92.8



TEST NUMBER: P331676-935
 CATALOG NUMBER: SA2XXRDIP-C675D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	105.9	106.1	106.1	106.2	106.2	106.2	106.1	105.6	105.3	104.9	104.4
115°	122.9	122.9	123.0	123.1	123.3	123.5	123.3	122.9	122.5	122.1	121.7
117.5°	139.4	139.6	139.9	140.3	140.7	141.1	141.0	140.4	139.9	139.4	138.8
120°	150.2	150.2	150.8	151.4	151.9	152.4	152.4	151.9	151.4	150.8	150.2
122.5°	161.8	162.0	162.3	162.7	163.1	163.5	163.3	162.6	162.0	161.4	160.7
125°	178.7	178.8	179.1	179.3	179.4	179.7	179.4	178.8	178.2	177.6	177.0
127.5°	195.0	195.3	195.5	195.8	196.0	196.2	196.0	195.2	194.5	193.7	193.0
130°	206.1	206.2	206.4	206.6	206.6	206.8	206.4	205.5	204.7	203.8	202.9
132.5°	217.1	217.4	217.4	217.4	217.3	217.3	217.0	216.2	215.5	214.8	214.1
135°	232.9	233.0	232.9	232.7	232.6	232.5	232.0	231.3	230.6	229.8	229.0
137.5°	248.3	248.3	248.1	248.0	247.8	247.6	247.3	246.7	246.0	245.4	244.8
140°	258.6	258.6	258.2	257.9	257.5	257.2	256.8	256.1	255.5	254.9	254.3
142.5°	267.9	267.8	267.6	267.3	267.1	266.9	266.5	265.9	265.3	264.7	264.1
145°	282.1	282.0	281.5	281.2	280.8	280.3	279.9	279.5	279.0	278.5	278.0
147.5°	294.5	294.3	294.0	293.8	293.4	293.2	292.7	292.2	291.6	291.1	290.5
150°	302.3	302.0	301.8	301.5	301.3	301.0	300.7	300.2	299.8	299.5	299.0
152.5°	310.1	309.9	309.5	309.2	308.8	308.6	308.2	307.8	307.4	306.9	306.6
155°	320.0	319.7	319.5	319.3	319.1	318.9	318.7	318.5	318.3	318.1	317.9
157.5°	329.2	328.7	328.6	328.5	328.4	328.2	328.1	328.0	327.8	327.7	327.5
160°	334.7	334.3	334.2	334.2	334.1	334.1	333.9	333.8	333.6	333.6	333.4
162.5°	339.7	339.1	339.1	339.1	339.0	338.9	338.9	338.8	338.8	338.8	338.7
165°	346.0	345.5	345.5	345.5	345.5	345.5	345.6	345.7	345.7	345.8	345.9
167.5°	351.3	350.9	350.9	350.9	350.9	350.9	351.0	351.2	351.5	351.6	351.8
170°	354.2	353.8	353.9	353.9	354.0	354.0	354.2	354.4	354.6	354.8	355.0
172.5°	356.5	355.9	356.0	356.1	356.2	356.2	356.4	356.5	356.8	357.0	357.1
175°	358.8	358.3	358.4	358.6	358.8	358.9	359.0	359.2	359.5	359.6	359.9
177.5°	360.1	359.7	359.8	360.0	360.1	360.2	360.3	360.5	360.6	360.8	360.9
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



TEST NUMBER: P331676-935
 CATALOG NUMBER: SA2XXRDIP-C675D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1272.3	1273.3	1280.4	1283.5	1289.9	1292.3	1295.1	1294.4	1294.4	1295.8	1305.7
5°	1275.0	1283.8	1296.9	1309.7	1322.0	1332.6	1339.6	1346.6	1349.3	1362.0	1373.5
7.5°	1270.4	1286.6	1308.4	1327.8	1351.1	1369.3	1384.4	1398.1	1407.4	1425.9	1444.9
10°	1264.5	1287.3	1311.9	1337.0	1369.1	1393.2	1417.8	1436.8	1442.9	1470.6	1486.4
12.5°	1252.5	1283.1	1314.4	1346.8	1378.2	1411.5	1438.6	1457.5	1479.1	1504.0	1533.2
15°	1234.6	1269.7	1310.6	1352.4	1397.1	1437.6	1466.6	1499.6	1523.3	1550.6	1576.1
17.5°	1208.8	1254.0	1306.1	1354.4	1406.2	1449.7	1489.5	1521.2	1537.9	1553.4	1557.2
20°	1188.4	1237.2	1298.3	1355.4	1407.3	1457.4	1496.9	1523.3	1527.7	1528.1	1504.9
22.5°	1166.2	1221.3	1285.3	1343.8	1405.8	1461.6	1492.4	1503.7	1486.2	1456.4	1411.4
25°	1125.6	1189.3	1263.6	1330.3	1398.1	1450.8	1461.4	1441.6	1380.4	1316.3	1235.0
27.5°	1081.4	1153.1	1232.7	1307.0	1379.1	1411.8	1389.0	1317.7	1207.6	1112.0	996.1
30°	1049.1	1129.5	1207.7	1290.8	1357.6	1371.7	1319.4	1214.4	1086.0	941.8	826.3
32.5°	1012.2	1096.5	1182.4	1268.3	1324.2	1310.5	1224.1	1094.8	944.3	802.6	693.4
35°	959.4	1046.5	1139.2	1225.3	1260.9	1201.6	1072.4	904.0	750.2	617.9	542.8
37.5°	898.5	993.2	1089.7	1168.8	1166.2	1067.4	891.4	717.6	588.3	510.1	456.6
40°	855.2	951.1	1055.2	1122.1	1093.5	964.7	774.0	610.0	515.6	453.1	414.0
42.5°	813.8	909.9	1013.4	1066.5	1016.8	858.5	668.5	540.0	462.1	413.4	381.7
45°	743.2	844.7	940.6	970.0	881.2	706.7	540.6	447.4	395.5	359.6	337.5
47.5°	674.2	774.0	861.5	862.0	741.9	573.1	456.0	387.2	342.9	315.0	299.0
50°	632.0	726.9	800.3	788.9	652.6	509.8	407.9	348.5	311.6	290.1	273.4
52.5°	584.5	676.7	740.2	707.7	577.0	448.7	364.6	314.8	284.2	265.4	250.6
55°	515.6	597.3	642.1	592.9	470.7	373.2	308.1	269.0	246.2	230.3	217.6
57.5°	447.7	515.2	543.4	486.1	387.7	309.4	260.6	231.3	208.6	197.3	190.6
60°	405.2	462.8	482.6	419.3	337.1	270.7	230.7	203.5	186.8	179.3	172.7
62.5°	363.3	410.4	418.6	360.6	293.9	236.9	202.6	179.6	168.5	161.4	155.2
65°	301.5	335.4	331.4	284.8	232.5	188.1	163.1	149.0	140.6	130.5	119.5
67.5°	248.2	268.9	256.4	221.5	177.5	146.2	129.8	119.2	108.8	99.3	96.7
70°	214.5	226.4	213.2	181.1	145.5	122.6	109.4	96.7	90.6	88.3	84.4
72.5°	182.1	186.2	172.0	144.5	118.4	101.5	88.7	81.5	78.3	76.4	73.9
75°	136.7	133.6	121.3	99.8	82.2	70.8	66.8	64.1	62.0	60.2	58.9
77.5°	96.0	91.5	80.5	66.5	57.3	51.7	49.4	48.0	46.9	46.1	44.8
80°	72.1	69.0	58.0	47.4	43.5	40.9	39.5	37.8	37.8	36.9	35.6
82.5°	52.8	49.3	39.7	34.8	32.6	31.0	30.0	29.0	28.7	28.8	27.9
85°	27.7	22.4	19.8	18.9	17.6	16.7	17.1	16.3	16.3	16.3	15.8
87.5°	8.7	7.1	6.9	6.7	7.2	7.6	7.5	7.8	8.4	8.1	8.4
90°	1.1	1.9	2.8	3.5	4.7	6.2	7.7	9.1	10.7	10.5	10.4
92.5°	6.0	6.6	7.2	7.8	8.3	8.6	9.0	9.3	9.6	9.7	9.7
95°	16.5	17.1	17.8	18.5	18.9	19.0	19.2	19.4	19.5	19.5	19.5
97.5°	29.5	30.0	30.7	31.3	31.7	31.9	32.2	32.5	32.7	32.7	32.7
100°	39.2	39.7	40.3	40.8	41.2	41.3	41.6	41.8	42.0	42.0	42.0
102.5°	49.2	49.7	50.1	50.5	51.0	51.1	51.4	51.7	51.9	52.0	52.1
105°	65.6	65.8	66.0	66.2	66.4	66.6	66.6	66.8	66.9	67.1	67.2
107.5°	82.4	82.7	83.0	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.5
110°	93.2	93.6	94.0	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6



TEST NUMBER: P331676-935

CATALOG NUMBER: SA2XXRDIP-C675D330U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.9	105.3	105.6	106.1	106.2	106.2	106.2	106.1	106.1	105.9	105.7
115°	122.1	122.5	122.9	123.3	123.5	123.3	123.1	123.0	122.9	122.9	122.8
117.5°	139.4	139.9	140.4	141.0	141.1	140.7	140.3	139.9	139.6	139.4	139.2
120°	150.8	151.4	151.9	152.4	152.4	151.9	151.4	150.8	150.2	150.2	150.2
122.5°	161.4	162.0	162.6	163.3	163.5	163.1	162.7	162.3	162.0	161.8	161.6
125°	177.6	178.2	178.8	179.4	179.7	179.4	179.3	179.1	178.8	178.7	178.5
127.5°	193.7	194.5	195.2	196.0	196.2	196.0	195.8	195.5	195.3	195.0	194.8
130°	203.8	204.7	205.5	206.4	206.8	206.6	206.6	206.4	206.2	206.1	206.0
132.5°	214.8	215.5	216.2	217.0	217.3	217.3	217.4	217.4	217.4	217.1	216.8
135°	229.8	230.6	231.3	232.0	232.5	232.6	232.7	232.9	233.0	232.9	232.9
137.5°	245.4	246.0	246.7	247.3	247.6	247.8	248.0	248.1	248.3	248.3	248.2
140°	254.9	255.5	256.1	256.8	257.2	257.5	257.9	258.2	258.6	258.6	258.6
142.5°	264.7	265.3	265.9	266.5	266.9	267.1	267.3	267.6	267.8	267.9	267.9
145°	278.5	279.0	279.5	279.9	280.3	280.8	281.2	281.5	282.0	282.1	282.1
147.5°	291.1	291.6	292.2	292.7	293.2	293.4	293.8	294.0	294.3	294.5	294.5
150°	299.5	299.8	300.2	300.7	301.0	301.3	301.5	301.8	302.0	302.3	302.5
152.5°	306.9	307.4	307.8	308.2	308.6	308.8	309.2	309.5	309.9	310.1	310.4
155°	318.1	318.3	318.5	318.7	318.9	319.1	319.3	319.5	319.7	320.0	320.4
157.5°	327.7	327.8	328.0	328.1	328.2	328.4	328.5	328.6	328.7	329.2	329.6
160°	333.6	333.6	333.8	333.9	334.1	334.1	334.2	334.2	334.3	334.7	335.1
162.5°	338.8	338.8	338.8	338.9	338.9	339.0	339.1	339.1	339.1	339.7	340.1
165°	345.8	345.7	345.7	345.6	345.5	345.5	345.5	345.5	345.5	346.0	346.5
167.5°	351.6	351.5	351.2	351.0	350.9	350.9	350.9	350.9	350.9	351.3	351.8
170°	354.8	354.6	354.4	354.2	354.0	354.0	353.9	353.9	353.8	354.2	354.7
172.5°	357.0	356.8	356.5	356.4	356.2	356.2	356.1	356.0	355.9	356.5	356.9
175°	359.6	359.5	359.2	359.0	358.9	358.8	358.6	358.4	358.3	358.8	359.3
177.5°	360.8	360.6	360.5	360.3	360.2	360.1	360.0	359.8	359.7	360.1	360.4
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5	360.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1309.2	1313.7	1315.9	1315.9	1318.4	1317.2	1316.2
5°	1384.4	1392.8	1394.6	1402.5	1408.2	1406.4	1407.3
7.5°	1459.2	1472.7	1485.9	1492.0	1493.0	1496.5	1497.8
10°	1505.3	1516.3	1537.0	1533.9	1549.2	1558.1	1543.5
12.5°	1549.6	1564.4	1578.7	1582.7	1591.5	1594.2	1588.5
15°	1589.7	1597.6	1598.4	1596.3	1598.9	1596.7	1588.4
17.5°	1552.2	1539.4	1513.4	1501.1	1491.3	1476.9	1471.1
20°	1490.3	1452.5	1408.6	1391.0	1370.4	1329.9	1339.6
22.5°	1356.8	1313.6	1269.7	1218.4	1193.9	1155.5	1153.2
25°	1148.8	1074.6	992.8	935.7	902.3	864.1	847.4
27.5°	893.2	799.7	732.7	698.8	668.0	637.7	636.4
30°	725.1	654.9	603.0	574.0	555.1	542.3	545.0
32.5°	611.2	563.1	528.1	504.0	490.1	480.4	480.3
35°	499.7	466.7	444.4	434.2	424.1	417.1	417.5
37.5°	427.7	407.9	395.4	384.2	377.9	374.4	372.6
40°	390.7	374.4	364.8	358.2	352.9	348.1	347.2
42.5°	361.5	348.1	338.4	333.2	328.3	324.9	324.0
45°	320.8	309.9	301.1	295.3	293.2	290.1	290.1
47.5°	285.4	274.6	267.8	264.2	260.4	258.3	258.2
50°	261.5	253.1	247.0	244.8	241.7	240.4	240.0
52.5°	240.0	233.8	229.5	227.9	226.6	224.9	225.2
55°	210.9	207.4	205.7	204.4	202.2	199.5	201.3
57.5°	186.4	183.5	178.7	174.6	172.5	170.7	171.4
60°	169.2	163.1	156.9	152.1	150.8	146.8	146.8
62.5°	147.4	138.8	131.2	128.5	127.2	125.4	125.0
65°	113.4	109.9	108.1	106.3	105.5	105.5	104.6
67.5°	93.9	92.6	90.7	90.1	89.3	89.0	88.8
70°	83.1	81.3	80.4	80.0	79.1	79.6	78.3
72.5°	72.5	71.1	70.9	69.8	69.2	69.3	68.4
75°	57.2	57.2	56.7	56.2	55.4	54.9	55.4
77.5°	43.9	44.0	43.2	43.1	43.0	43.1	42.7
80°	35.1	35.6	35.1	34.7	34.3	34.7	34.3
82.5°	27.8	27.1	27.0	26.9	26.9	26.6	26.5
85°	15.8	16.3	15.8	15.4	15.4	15.4	15.8
87.5°	8.0	8.0	8.0	8.0	8.0	8.0	7.7
90°	10.2	10.1	10.1	10.2	10.2	10.2	10.3
92.5°	9.7	9.8	9.8	9.8	9.8	9.8	9.8
95°	19.5	19.5	19.4	19.3	19.1	19.0	18.9
97.5°	32.7	32.7	32.7	32.7	32.7	32.7	32.6
100°	42.0	42.0	41.9	41.8	41.8	41.8	41.7
102.5°	52.1	52.2	52.2	52.1	52.0	52.0	51.9
105°	67.3	67.5	67.5	67.5	67.5	67.5	67.5
107.5°	83.6	83.6	83.5	83.2	82.9	82.6	82.2
110°	94.6	94.6	94.5	94.3	94.1	93.9	93.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	105.6	105.4	105.2	105.1	105.0	104.8	104.6
115°	122.7	122.6	122.5	122.3	122.1	121.9	121.7
117.5°	139.1	138.9	138.7	138.5	138.4	138.1	137.9
120°	150.2	150.2	150.2	150.0	149.7	149.6	149.4
122.5°	161.4	161.3	161.2	161.0	160.8	160.7	160.6
125°	178.2	178.1	177.9	177.9	177.8	177.7	177.6
127.5°	194.6	194.3	194.1	193.9	193.6	193.5	193.2
130°	205.9	205.7	205.5	205.3	204.9	204.7	204.4
132.5°	216.5	216.3	216.0	215.8	215.6	215.3	215.2
135°	232.8	232.7	232.6	232.4	232.2	232.0	231.8
137.5°	248.1	248.1	248.0	247.7	247.5	247.2	246.8
140°	258.6	258.6	258.4	258.1	257.9	257.6	257.4
142.5°	267.9	268.0	267.9	267.7	267.3	267.1	266.8
145°	282.1	282.2	282.1	281.9	281.6	281.4	281.0
147.5°	294.7	294.9	294.8	294.5	294.3	294.0	293.8
150°	302.6	302.9	302.9	302.6	302.5	302.3	302.0
152.5°	310.6	310.9	310.9	310.6	310.4	310.1	309.9
155°	320.7	321.1	321.2	320.9	320.7	320.6	320.3
157.5°	330.1	330.5	330.6	330.3	329.9	329.7	329.3
160°	335.5	336.0	336.0	335.7	335.4	335.2	334.9
162.5°	340.5	341.0	341.0	340.8	340.4	340.1	339.8
165°	347.0	347.4	347.5	347.2	346.8	346.5	346.2
167.5°	352.2	352.8	352.8	352.5	352.1	351.7	351.4
170°	355.2	355.7	355.7	355.3	354.9	354.5	354.0
172.5°	357.4	357.8	357.9	357.5	357.1	356.7	356.3
175°	359.7	360.2	360.2	359.9	359.5	359.0	358.6
177.5°	360.7	361.0	361.0	360.7	360.4	360.1	359.7
180°	360.5	360.5	360.5	360.5	360.5	360.5	360.5

(END OF REPORT)