

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: P331525-927

Luminaire Tested: **S122DIW-S675D435U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331525-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S675D435U927-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 435 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3693.9 lumens  
Efficiency: N/A  
Efficacy: 98.0 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

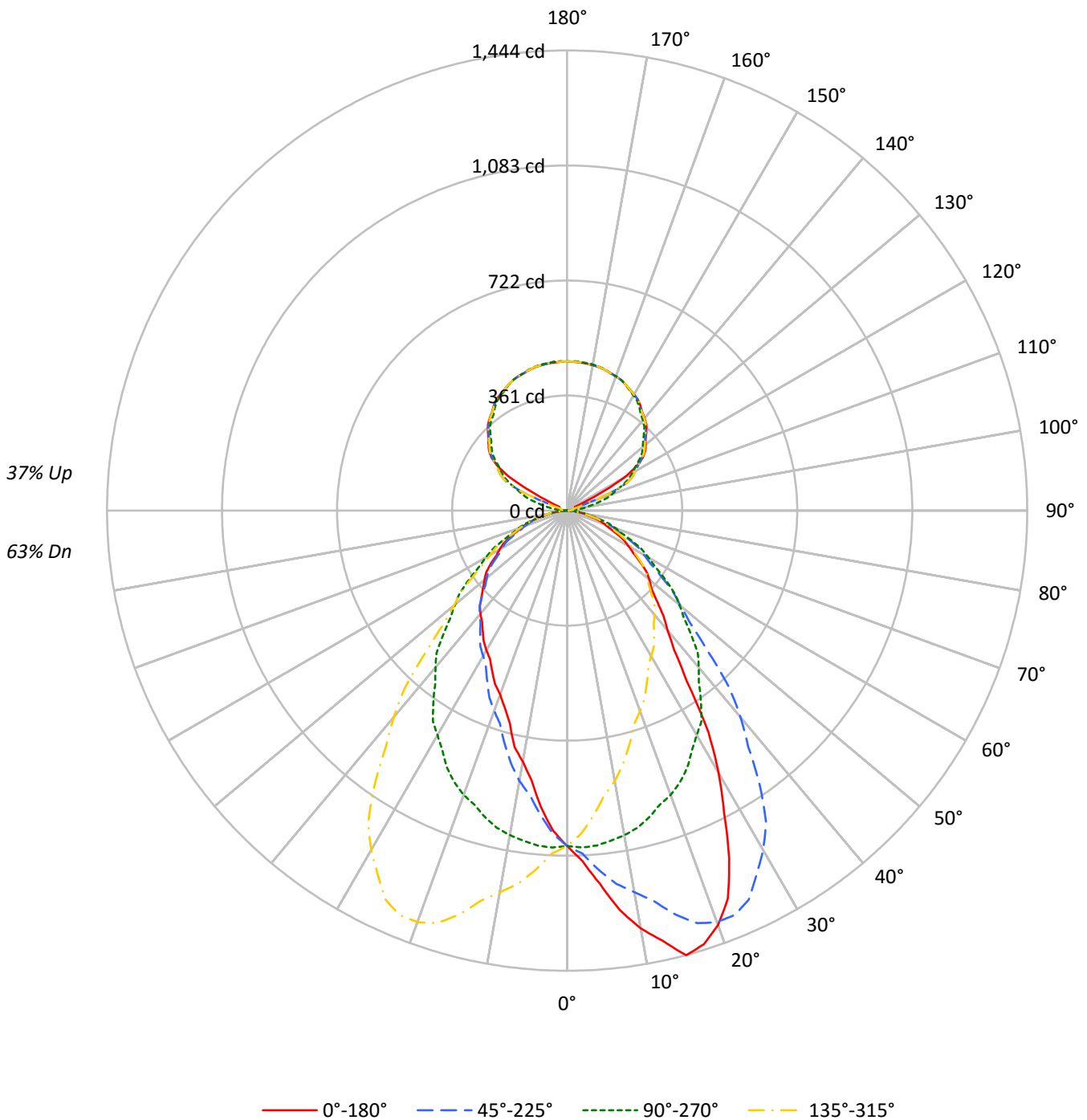
Input Watts (W): 37.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	97	93	90	95	91	88	85	80	78	76	70	69	67	61	60	59	54
2	93	86	80	75	87	81	75	71	71	67	64	62	59	57	54	52	50	46
3	85	76	69	63	80	71	65	60	63	58	54	56	52	49	49	46	43	40
4	78	68	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35
5	72	61	53	47	67	57	50	45	51	45	41	45	41	37	40	36	34	31
6	67	55	47	41	62	52	45	39	46	40	36	41	37	33	37	33	30	27
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	34	30	27	24
8	58	45	38	32	54	43	36	31	39	33	29	35	30	27	31	27	24	22
9	54	42	34	29	50	40	33	28	36	30	26	32	27	24	29	25	22	20
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	27	23	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	16990	16990	16990	16990
5°	19047	17099	15152	17099
10°	21827	16959	13114	16959
15°	24145	16649	11587	16649
20°	23778	16314	10562	16314
25°	21440	15871	9912	15871
30°	17717	15163	9439	15163
35°	12912	14420	9102	14420
40°	10313	13544	8916	13544
45°	9012	12529	8661	12529
50°	8470	11549	8493	11549
55°	7809	10553	8265	10553
60°	7156	9494	7915	9494
65°	6518	8542	7568	8542
70°	5915	7619	7062	7619
75°	5246	6581	6257	6581
80°	4519	5449	5040	5449
85°	4057	4057	3001	4057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	2.7
10°-20°	291.3	7.9
20°-30°	422.8	11.4
30°-40°	446.2	12.1
40°-50°	395.0	10.7
50°-60°	315.3	8.5
60°-70°	214.3	5.8
70°-80°	109.9	3.0
80°-90°	27.6	0.7
90°-100°	15.6	0.4
100°-110°	57.2	1.5
110°-120°	153.0	4.1
120°-130°	252.6	6.8
130°-140°	268.6	7.3
140°-150°	249.7	6.8
150°-160°	200.7	5.4
160°-170°	129.3	3.5
170°-180°	44.5	1.2
0°-30°	814.3	22.0
0°-40°	1260.5	34.1
0°-60°	1970.8	53.4
0°-90°	2322.6	62.9
90°-120°	225.9	6.1
90°-150°	996.7	27.0
90°-180°	1371.0	37.1
0°-180°	3693.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1052	1052	1052	1052	1052	
5°	1175	1055	935	1055	1175	117
15°	1444	996	693	996	1444	399
25°	1204	891	556	891	1204	544
35°	655	732	462	732	655	426
45°	395	549	379	549	395	310
55°	277	375	294	375	277	249
65°	171	224	198	224	171	170
75°	84	106	100	106	84	90
85°	22	22	16	22	22	24
90°	9	0	9	0	9	5
95°	15	22	15	22	15	14
105°	26	103	26	103	26	27
115°	28	195	28	195	28	70
125°	290	275	290	275	290	250
135°	352	341	352	341	352	271
145°	401	395	401	395	401	251
155°	436	435	436	435	436	201
165°	457	458	457	458	457	129
175°	466	469	466	469	466	44
180°	468	468	468	468	468	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1100.7	1101.1	1101.8	1096.5	1095.9	1095.9	1091.4	1087.5	1083.0	1076.8	1077.4
5°	1175.2	1179.6	1181.2	1176.4	1169.1	1168.3	1161.4	1150.1	1139.6	1131.1	1125.1
7.5°	1264.0	1265.7	1261.8	1255.4	1250.0	1240.3	1227.5	1215.0	1197.4	1181.3	1169.3
10°	1331.3	1333.7	1326.8	1317.6	1309.9	1298.5	1279.9	1260.9	1237.9	1215.6	1197.8
12.5°	1382.4	1388.4	1379.6	1378.3	1365.2	1349.6	1327.5	1317.9	1285.4	1254.4	1235.3
15°	1444.5	1444.1	1444.9	1437.3	1427.5	1425.1	1401.6	1376.2	1330.5	1312.2	1280.7
17.5°	1426.6	1432.7	1435.5	1435.4	1435.2	1433.7	1426.2	1410.1	1387.2	1357.6	1321.2
20°	1383.9	1391.9	1393.1	1402.5	1407.7	1414.6	1417.4	1412.9	1398.8	1374.1	1342.6
22.5°	1317.9	1320.1	1323.9	1338.4	1349.8	1367.0	1376.0	1391.0	1385.5	1373.5	1347.1
25°	1203.5	1199.4	1213.6	1220.8	1247.1	1274.6	1294.5	1316.3	1335.7	1347.4	1339.7
27.5°	1066.1	1060.1	1081.2	1100.6	1122.0	1151.8	1182.6	1219.1	1249.4	1287.4	1300.4
30°	950.3	953.9	974.2	994.8	1027.1	1069.2	1104.0	1144.1	1187.3	1229.8	1259.3
32.5°	825.5	839.5	852.2	883.8	912.3	959.3	1010.2	1060.3	1114.2	1162.4	1208.2
35°	655.1	671.3	689.1	712.2	752.2	798.7	848.4	915.9	989.6	1055.5	1109.7
37.5°	551.4	548.8	559.0	575.7	608.2	645.6	702.9	769.7	856.3	933.7	1010.2
40°	489.3	487.7	495.0	510.3	535.0	562.5	612.7	671.3	751.8	846.4	937.4
42.5°	446.6	447.6	451.6	462.5	479.3	502.0	539.6	589.5	663.1	752.3	850.0
45°	394.7	397.5	402.0	407.3	416.9	435.5	456.5	492.2	550.4	624.8	721.0
47.5°	357.4	357.4	361.9	366.5	372.3	382.8	400.0	422.2	463.3	523.9	606.7
50°	337.2	334.5	337.7	341.3	347.4	354.7	366.0	387.0	414.5	463.4	532.6
52.5°	312.7	312.8	315.7	317.0	322.5	329.7	340.1	354.7	379.5	417.8	474.7
55°	277.4	279.4	281.1	283.4	288.4	293.6	301.7	311.4	330.8	359.5	401.6
57.5°	244.2	244.9	246.5	251.1	254.2	259.0	266.7	275.5	288.2	309.4	341.0
60°	221.6	221.6	224.8	226.9	230.9	235.8	241.9	250.3	261.7	279.0	304.5
62.5°	200.9	200.6	201.8	205.2	208.3	212.8	218.9	226.1	236.7	252.2	273.1
65°	170.6	169.8	172.3	173.1	176.3	180.8	185.6	193.3	201.8	213.1	231.7
67.5°	141.6	142.5	143.8	145.4	147.1	151.8	155.0	160.5	167.6	177.1	189.6
70°	125.3	125.3	125.3	126.6	129.0	131.4	134.7	139.1	146.0	154.1	165.4
72.5°	107.3	108.5	109.8	109.1	112.2	113.6	117.5	120.0	126.6	131.7	141.8
75°	84.1	84.1	84.1	86.1	87.4	88.6	91.0	93.4	96.6	103.1	108.4
77.5°	62.7	62.6	63.0	63.5	64.8	66.2	66.9	69.2	72.2	75.1	79.6
80°	48.6	49.4	49.7	50.5	50.5	51.3	51.7	54.6	56.6	58.6	61.5
82.5°	37.5	37.7	37.8	37.9	38.3	38.7	39.8	40.7	41.4	43.1	45.3
85°	21.9	21.5	21.5	22.3	21.9	21.9	22.7	23.4	23.4	23.8	25.0
87.5°	10.2	10.2	10.5	10.1	10.1	10.4	10.3	9.9	10.1	10.4	10.6
90°	9.1	9.0	8.9	8.7	8.6	8.2	7.9	7.5	7.1	6.7	6.2
92.5°	9.1	9.0	9.0	8.9	8.8	8.6	8.5	8.2	8.1	7.8	7.5
95°	14.6	14.7	14.7	14.8	14.9	14.7	14.3	13.9	13.5	13.2	12.7
97.5°	19.4	19.3	19.3	19.2	19.1	18.9	18.6	18.3	18.0	17.7	16.5
100°	22.7	22.5	22.4	22.3	22.1	21.7	21.1	20.5	19.9	19.3	18.0
102.5°	24.3	24.1	23.9	23.7	23.4	23.0	22.2	21.4	20.6	19.8	30.6
105°	25.7	25.4	25.1	24.8	24.6	24.0	23.1	22.3	21.5	20.7	41.2
107.5°	26.5	26.1	25.9	25.6	25.3	25.5	26.4	27.3	28.0	28.9	53.6
110°	26.8	26.5	26.1	25.8	25.5	29.2	36.7	44.2	51.7	59.3	81.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	27.0	26.8	26.5	26.3	26.1	39.7	67.1	94.6	122.0	149.5	154.8
115°	27.7	33.2	38.6	44.0	49.4	69.6	104.4	139.3	174.0	208.9	207.0
117.5°	113.4	131.2	148.9	166.8	184.6	197.6	206.1	214.5	223.0	231.4	230.1
120°	206.5	216.7	226.9	237.0	247.2	251.8	250.9	250.0	249.1	248.2	246.8
122.5°	257.7	259.7	261.7	263.6	265.6	266.3	265.8	265.2	264.7	264.2	262.7
125°	289.5	289.3	289.1	288.8	288.6	288.2	287.7	287.2	286.6	286.1	284.7
127.5°	309.5	309.5	309.4	309.4	309.3	309.0	308.2	307.4	306.7	305.9	304.8
130°	322.0	322.1	322.2	322.3	322.3	321.9	321.1	320.3	319.4	318.6	317.8
132.5°	334.2	334.3	334.3	334.4	334.5	334.1	333.4	332.8	332.1	331.4	330.5
135°	351.8	352.0	352.1	352.3	352.4	352.1	351.3	350.6	349.8	349.1	348.4
137.5°	367.8	368.1	368.4	368.6	368.8	368.6	367.9	367.2	366.4	365.7	364.9
140°	377.9	378.3	378.6	379.0	379.4	379.2	378.6	377.9	377.2	376.5	375.7
142.5°	387.6	388.0	388.4	388.7	389.1	389.0	388.4	387.8	387.1	386.5	385.6
145°	401.2	401.6	402.0	402.3	402.7	402.7	402.1	401.6	401.1	400.5	399.3
147.5°	413.2	413.5	413.8	414.2	414.5	414.5	414.1	413.7	413.3	412.9	411.6
150°	420.6	420.9	421.3	421.7	422.1	422.0	421.5	421.1	420.6	420.2	419.0
152.5°	426.7	427.2	427.8	428.3	428.7	428.8	428.3	427.9	427.4	427.0	425.8
155°	435.5	436.0	436.7	437.2	437.8	437.9	437.4	437.0	436.6	436.1	435.2
157.5°	443.4	443.9	444.5	445.1	445.7	445.8	445.2	444.7	444.2	443.7	443.1
160°	448.0	448.5	449.0	449.6	450.0	450.1	449.6	449.2	448.8	448.3	447.8
162.5°	451.8	452.4	453.0	453.7	454.3	454.4	453.9	453.4	452.9	452.3	451.9
165°	457.4	458.0	458.5	459.0	459.5	459.5	459.0	458.5	458.0	457.4	457.2
167.5°	461.1	461.7	462.4	463.0	463.7	463.8	463.3	462.8	462.2	461.7	461.5
170°	463.2	463.9	464.5	465.2	465.9	466.0	465.5	464.9	464.4	463.9	463.7
172.5°	464.9	465.5	466.2	466.8	467.5	467.6	467.1	466.5	466.0	465.5	465.3
175°	466.3	467.0	467.8	468.5	469.3	469.4	468.8	468.3	467.8	467.2	467.1
177.5°	467.1	467.6	468.2	468.7	469.3	469.4	468.9	468.5	468.1	467.6	467.6
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1079.7	1077.1	1075.5	1069.7	1064.5	1059.4	1057.7	1058.4	1051.3	1044.5	1041.6
5°	1121.8	1113.7	1106.0	1095.1	1082.2	1068.0	1060.7	1055.0	1040.9	1025.6	1016.7
7.5°	1159.5	1148.0	1133.1	1112.5	1093.8	1071.5	1057.3	1044.8	1024.1	1002.4	989.1
10°	1182.5	1166.6	1147.6	1122.6	1099.5	1072.5	1053.4	1034.4	1010.2	984.3	968.1
12.5°	1202.2	1180.9	1162.2	1130.0	1102.8	1068.9	1046.3	1019.5	994.0	963.3	947.5
15°	1249.2	1210.0	1174.3	1138.0	1104.4	1057.1	1032.1	996.0	962.4	924.5	906.3
17.5°	1285.5	1241.4	1185.3	1139.1	1099.9	1047.6	1010.7	967.7	928.0	884.5	859.8
20°	1306.2	1255.6	1195.4	1140.4	1093.4	1033.6	993.6	949.5	903.0	854.1	827.4
22.5°	1318.5	1265.4	1205.8	1135.5	1080.5	1022.3	971.9	923.6	876.5	823.7	795.7
25°	1322.4	1273.8	1210.8	1131.5	1064.4	998.5	937.8	890.9	833.9	784.5	743.7
27.5°	1303.1	1268.4	1207.7	1123.9	1045.7	968.6	901.0	847.9	787.7	734.1	693.1
30°	1279.5	1259.3	1200.2	1116.1	1030.8	947.9	873.5	813.3	753.4	699.2	657.1
32.5°	1242.9	1238.6	1186.7	1105.1	1014.9	921.7	844.7	783.8	717.5	664.2	624.2
35°	1171.2	1190.6	1157.8	1080.5	985.1	884.4	801.1	731.6	662.8	611.9	574.3
37.5°	1074.9	1123.1	1114.5	1044.6	944.8	843.8	751.9	679.1	613.6	562.2	525.3
40°	1008.5	1070.0	1079.0	1017.1	916.4	812.5	714.9	642.6	578.7	531.8	494.6
42.5°	937.4	1009.2	1033.6	984.0	885.3	779.4	682.0	607.0	543.8	498.1	465.2
45°	818.1	913.1	957.2	928.9	833.5	725.1	624.8	548.7	491.3	448.5	423.0
47.5°	706.5	810.4	869.7	859.7	775.8	668.4	569.3	496.4	440.5	406.2	383.4
50°	627.6	734.4	806.0	809.2	734.4	628.0	528.5	459.8	408.4	376.5	357.9
52.5°	559.0	660.9	739.0	756.1	688.1	586.0	492.0	423.6	378.3	349.0	332.3
55°	469.5	555.6	642.1	673.8	619.1	522.0	435.1	374.9	332.4	312.2	297.6
57.5°	390.3	462.2	542.1	576.9	543.3	460.2	378.7	326.4	291.9	274.2	263.0
60°	348.6	405.2	476.3	518.0	488.9	414.9	343.7	294.0	265.7	249.9	239.4
62.5°	309.7	359.9	420.1	458.2	442.4	372.6	308.8	264.9	240.4	225.6	218.1
65°	255.6	295.2	341.7	376.9	366.4	313.4	261.3	223.6	204.2	192.5	186.4
67.5°	210.5	239.1	271.3	302.1	293.7	256.1	214.3	185.0	170.5	160.4	156.8
70°	182.0	203.8	232.5	257.2	250.3	219.6	186.4	161.4	148.9	140.3	136.7
72.5°	154.8	172.8	194.6	214.8	210.2	184.7	157.0	138.1	128.4	120.6	117.6
75°	116.8	130.6	143.9	157.3	156.1	136.3	120.1	105.5	97.8	91.8	90.5
77.5°	86.3	94.0	103.1	111.0	108.8	97.4	84.8	76.4	70.7	66.7	66.1
80°	65.9	70.3	76.8	82.5	79.7	74.8	64.7	58.6	54.6	50.5	49.0
82.5°	47.8	52.3	56.2	59.2	57.0	52.5	46.3	42.1	39.7	37.0	36.3
85°	25.0	27.5	29.2	29.9	29.2	26.3	23.4	21.9	19.8	18.6	18.2
87.5°	10.9	10.7	10.6	11.1	10.0	9.7	8.3	7.2	7.1	6.9	6.4
90°	5.5	5.0	4.4	3.6	2.9	2.0	1.2	0.3	1.2	2.0	2.9
92.5°	7.3	7.0	6.7	6.6	6.6	6.7	6.7	6.8	6.7	6.7	6.6
95°	12.1	11.6	11.1	12.0	14.6	17.0	19.5	22.0	19.5	17.0	14.6
97.5°	15.2	14.0	12.8	15.7	22.7	29.7	36.7	43.6	36.7	29.7	22.7
100°	16.7	15.4	14.2	18.7	29.0	39.3	49.6	60.0	49.6	39.3	29.0
102.5°	41.3	52.0	62.7	69.1	71.3	73.4	75.7	77.8	75.7	73.4	71.3
105°	61.7	82.3	102.8	111.9	109.7	107.4	105.2	102.9	105.2	107.4	109.7
107.5°	78.2	102.8	127.5	138.9	137.0	135.2	133.4	131.6	133.4	135.2	137.0
110°	102.7	124.5	146.2	156.3	154.7	153.1	151.5	150.0	151.5	153.1	154.7





TEST NUMBER: P331525-927

CATALOG NUMBER: S122DIW-S675D435U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	160.2	165.6	171.0	172.9	171.5	170.2	168.7	167.3	168.7	170.2	171.5
115°	205.2	203.3	201.4	199.8	198.5	197.3	196.0	194.7	196.0	197.3	198.5
117.5°	228.8	227.5	226.2	224.8	223.4	222.0	220.5	219.1	220.5	222.0	223.4
120°	245.5	244.2	242.8	241.5	240.4	239.2	238.1	237.0	238.1	239.2	240.4
122.5°	261.2	259.8	258.3	256.9	255.7	254.5	253.3	252.2	253.3	254.5	255.7
125°	283.3	281.9	280.4	279.2	278.2	277.3	276.2	275.3	276.2	277.3	278.2
127.5°	303.7	302.7	301.6	300.6	299.4	298.3	297.3	296.2	297.3	298.3	299.4
130°	317.0	316.2	315.3	314.3	313.1	311.9	310.7	309.5	310.7	311.9	313.1
132.5°	329.7	328.8	328.0	327.1	326.1	325.0	324.0	323.1	324.0	325.0	326.1
135°	347.8	347.1	346.3	345.5	344.2	343.0	341.8	340.6	341.8	343.0	344.2
137.5°	364.2	363.4	362.6	361.8	361.0	360.1	359.3	358.5	359.3	360.1	361.0
140°	374.9	374.1	373.2	372.5	371.9	371.3	370.7	370.1	370.7	371.3	371.9
142.5°	384.6	383.7	382.8	382.0	381.4	380.9	380.4	379.9	380.4	380.9	381.4
145°	398.0	396.7	395.5	394.8	394.9	395.0	395.1	395.1	395.1	395.0	394.9
147.5°	410.4	409.1	407.8	407.3	407.7	407.9	408.2	408.4	408.2	407.9	407.7
150°	417.8	416.6	415.3	415.0	415.6	416.1	416.6	417.2	416.6	416.1	415.6
152.5°	424.7	423.5	422.4	422.1	422.7	423.3	423.9	424.5	423.9	423.3	422.7
155°	434.3	433.4	432.5	432.4	433.1	433.7	434.4	435.1	434.4	433.7	433.1
157.5°	442.4	441.8	441.2	441.2	441.7	442.3	442.8	443.4	442.8	442.3	441.7
160°	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3	447.8	447.4	446.9
162.5°	451.5	451.1	450.8	450.8	451.3	451.7	452.2	452.7	452.2	451.7	451.3
165°	457.0	456.8	456.5	456.6	457.1	457.6	458.0	458.4	458.0	457.6	457.1
167.5°	461.3	461.1	460.9	461.0	461.4	461.9	462.3	462.8	462.3	461.9	461.4
170°	463.6	463.4	463.3	463.4	463.9	464.3	464.8	465.2	464.8	464.3	463.9
172.5°	465.2	465.0	464.9	465.0	465.5	466.0	466.4	466.8	466.4	466.0	465.5
175°	467.0	466.8	466.7	466.8	467.4	467.9	468.4	469.0	468.4	467.9	467.4
177.5°	467.5	467.5	467.4	467.6	468.0	468.4	468.9	469.3	468.9	468.4	468.0
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331525-927

CATALOG NUMBER: S122DIW-S675D435U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1038.3	1036.4	1029.6	1026.0	1020.2	1014.7	1011.1	1012.8	1014.1	1013.4	1012.4
5°	1008.5	1000.8	989.1	979.1	971.8	958.4	952.8	949.9	947.5	944.7	941.8
7.5°	973.1	961.0	944.2	929.8	916.2	899.6	890.2	884.5	878.7	872.3	866.6
10°	947.9	930.9	913.1	892.9	876.7	861.7	848.4	839.6	831.5	823.8	818.1
12.5°	921.4	901.8	879.8	852.2	834.3	812.9	810.9	795.2	782.6	777.8	771.2
15°	879.2	851.7	823.8	791.0	776.8	757.4	745.3	733.2	722.2	714.5	712.6
17.5°	831.2	795.6	767.9	744.3	721.1	701.2	690.1	680.3	671.4	661.1	659.7
20°	794.6	763.9	733.6	713.0	689.1	668.8	655.1	645.4	637.7	631.7	626.4
22.5°	760.0	726.4	698.6	676.0	652.5	636.2	625.3	616.0	609.6	602.9	597.9
25°	704.5	678.2	647.8	622.3	602.9	592.5	583.5	575.4	571.4	567.0	561.3
27.5°	655.8	626.6	598.3	578.5	561.5	552.2	545.8	540.3	536.5	533.9	530.8
30°	621.5	592.0	569.8	550.4	536.2	527.0	522.9	519.7	515.2	513.6	512.0
32.5°	588.6	562.0	543.0	526.1	512.6	506.5	502.8	499.9	496.5	494.8	491.5
35°	541.9	519.7	501.1	491.7	480.9	475.5	472.8	468.7	465.5	463.8	463.4
37.5°	498.0	478.6	466.4	454.5	449.9	446.6	442.8	440.0	439.0	438.8	438.4
40°	469.5	453.8	442.8	433.1	431.1	426.2	423.0	420.6	420.6	421.0	420.6
42.5°	443.6	429.4	419.9	411.5	409.1	406.2	402.9	402.7	403.5	404.8	403.5
45°	404.4	394.3	387.4	383.3	378.9	376.0	375.7	376.9	377.3	377.7	378.9
47.5°	368.3	361.6	355.4	350.9	349.0	348.5	348.0	350.1	352.0	352.8	354.7
50°	347.0	339.3	334.1	331.2	329.5	328.8	329.5	332.0	333.6	335.6	336.8
52.5°	323.1	317.6	313.9	311.8	311.2	311.6	311.8	314.6	317.1	317.8	318.5
55°	289.9	285.9	285.1	281.5	283.0	282.7	284.7	286.3	288.8	291.1	291.6
57.5°	257.0	253.7	251.5	251.8	252.3	254.1	255.8	258.6	261.3	263.8	264.0
60°	235.0	233.3	232.1	232.1	232.9	235.4	237.4	240.2	241.9	243.4	244.6
62.5°	214.9	213.3	212.1	212.7	214.8	216.3	218.6	220.1	221.7	223.4	223.9
65°	183.2	182.4	183.6	184.4	184.8	186.8	189.6	190.8	192.5	193.3	196.1
67.5°	154.0	154.2	154.0	155.1	157.5	158.0	160.7	163.4	163.7	165.3	167.2
70°	134.3	135.1	135.9	136.7	138.7	139.5	141.6	142.8	144.3	145.6	146.8
72.5°	116.1	116.3	117.1	116.9	118.7	120.4	122.2	123.3	124.9	126.5	127.7
75°	89.4	89.4	90.2	90.5	92.6	94.7	94.2	95.1	96.6	98.2	99.1
77.5°	65.3	64.4	65.3	65.7	66.3	68.0	68.4	69.5	71.3	70.7	71.7
80°	49.7	48.6	49.7	50.1	50.1	52.2	52.2	53.0	54.2	53.0	54.2
82.5°	35.5	34.9	35.8	35.9	36.5	36.6	37.3	37.5	38.7	38.1	38.7
85°	17.8	17.4	17.8	17.4	17.8	18.2	18.2	17.8	17.8	18.6	17.4
87.5°	6.3	6.0	5.9	5.9	5.8	5.5	5.3	5.4	5.5	4.9	4.9
90°	3.6	4.4	5.0	5.5	6.2	6.7	7.1	7.5	7.9	8.2	8.6
92.5°	6.6	6.7	7.0	7.3	7.5	7.8	8.1	8.2	8.5	8.6	8.8
95°	12.0	11.1	11.6	12.1	12.7	13.2	13.5	13.9	14.3	14.7	14.9
97.5°	15.7	12.8	14.0	15.2	16.5	17.7	18.0	18.3	18.6	18.9	19.1
100°	18.7	14.2	15.4	16.7	18.0	19.3	19.9	20.5	21.1	21.7	22.1
102.5°	69.1	62.7	52.0	41.3	30.6	19.8	20.6	21.4	22.2	23.0	23.4
105°	111.9	102.8	82.3	61.7	41.2	20.7	21.5	22.3	23.1	24.0	24.6
107.5°	138.9	127.5	102.8	78.2	53.6	28.9	28.0	27.3	26.4	25.5	25.3
110°	156.3	146.2	124.5	102.7	81.0	59.3	51.7	44.2	36.7	29.2	25.5



TEST NUMBER: P331525-927

CATALOG NUMBER: S122DIW-S675D435U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	172.9	171.0	165.6	160.2	154.8	149.5	122.0	94.6	67.1	39.7	26.1
115°	199.8	201.4	203.3	205.2	207.0	208.9	174.0	139.3	104.4	69.6	49.4
117.5°	224.8	226.2	227.5	228.8	230.1	231.4	223.0	214.5	206.1	197.6	184.6
120°	241.5	242.8	244.2	245.5	246.8	248.2	249.1	250.0	250.9	251.8	247.2
122.5°	256.9	258.3	259.8	261.2	262.7	264.2	264.7	265.2	265.8	266.3	265.6
125°	279.2	280.4	281.9	283.3	284.7	286.1	286.6	287.2	287.7	288.2	288.6
127.5°	300.6	301.6	302.7	303.7	304.8	305.9	306.7	307.4	308.2	309.0	309.3
130°	314.3	315.3	316.2	317.0	317.8	318.6	319.4	320.3	321.1	321.9	322.3
132.5°	327.1	328.0	328.8	329.7	330.5	331.4	332.1	332.8	333.4	334.1	334.5
135°	345.5	346.3	347.1	347.8	348.4	349.1	349.8	350.6	351.3	352.1	352.4
137.5°	361.8	362.6	363.4	364.2	364.9	365.7	366.4	367.2	367.9	368.6	368.8
140°	372.5	373.2	374.1	374.9	375.7	376.5	377.2	377.9	378.6	379.2	379.4
142.5°	382.0	382.8	383.7	384.6	385.6	386.5	387.1	387.8	388.4	389.0	389.1
145°	394.8	395.5	396.7	398.0	399.3	400.5	401.1	401.6	402.1	402.7	402.7
147.5°	407.3	407.8	409.1	410.4	411.6	412.9	413.3	413.7	414.1	414.5	414.5
150°	415.0	415.3	416.6	417.8	419.0	420.2	420.6	421.1	421.5	422.0	422.1
152.5°	422.1	422.4	423.5	424.7	425.8	427.0	427.4	427.9	428.3	428.8	428.7
155°	432.4	432.5	433.4	434.3	435.2	436.1	436.6	437.0	437.4	437.9	437.8
157.5°	441.2	441.2	441.8	442.4	443.1	443.7	444.2	444.7	445.2	445.8	445.7
160°	446.5	446.5	446.9	447.4	447.8	448.3	448.8	449.2	449.6	450.1	450.0
162.5°	450.8	450.8	451.1	451.5	451.9	452.3	452.9	453.4	453.9	454.4	454.3
165°	456.6	456.5	456.8	457.0	457.2	457.4	458.0	458.5	459.0	459.5	459.5
167.5°	461.0	460.9	461.1	461.3	461.5	461.7	462.2	462.8	463.3	463.8	463.7
170°	463.4	463.3	463.4	463.6	463.7	463.9	464.4	464.9	465.5	466.0	465.9
172.5°	465.0	464.9	465.0	465.2	465.3	465.5	466.0	466.5	467.1	467.6	467.5
175°	466.8	466.7	466.8	467.0	467.1	467.2	467.8	468.3	468.8	469.4	469.3
177.5°	467.6	467.4	467.5	467.5	467.6	467.6	468.1	468.5	468.9	469.4	469.3
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331525-927

CATALOG NUMBER: S122DIW-S675D435U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1009.2	1008.5	1008.5	1005.7	1008.5	1008.5	1009.2	1012.4	1013.4	1014.1	1012.8
5°	936.2	934.9	933.0	934.9	933.0	934.9	936.2	941.8	944.7	947.5	949.9
7.5°	864.0	859.1	858.4	853.6	858.4	859.1	864.0	866.6	872.3	878.7	884.5
10°	811.2	807.9	807.6	799.9	807.6	807.9	811.2	818.1	823.8	831.5	839.6
12.5°	771.1	763.3	764.9	760.4	764.9	763.3	771.1	771.2	777.8	782.6	795.2
15°	701.6	701.6	700.0	693.2	700.0	701.6	701.6	712.6	714.5	722.2	733.2
17.5°	651.7	650.9	647.1	649.0	647.1	650.9	651.7	659.7	661.1	671.4	680.3
20°	621.9	619.6	614.7	614.7	614.7	619.6	621.9	626.4	631.7	637.7	645.4
22.5°	593.8	593.7	588.5	590.1	588.5	593.7	593.8	597.9	602.9	609.6	616.0
25°	560.9	557.7	555.2	556.4	555.2	557.7	560.9	561.3	567.0	571.4	575.4
27.5°	529.7	527.9	527.8	524.4	527.8	527.9	529.7	530.8	533.9	536.5	540.3
30°	511.6	507.6	508.3	506.3	508.3	507.6	511.6	512.0	513.6	515.2	519.7
32.5°	490.8	489.4	488.6	486.9	488.6	489.4	490.8	491.5	494.8	496.5	499.9
35°	462.6	463.0	461.1	461.8	461.1	463.0	462.6	463.4	463.8	465.5	468.7
37.5°	438.0	439.3	438.3	438.6	438.3	439.3	438.0	438.4	438.8	439.0	440.0
40°	421.8	421.8	421.8	423.0	421.8	421.8	421.8	420.6	421.0	420.6	420.6
42.5°	406.2	405.6	405.0	404.9	405.0	405.6	406.2	403.5	404.8	403.5	402.7
45°	379.7	381.0	381.4	379.3	381.4	381.0	379.7	378.9	377.7	377.3	376.9
47.5°	355.7	355.8	355.7	357.5	355.7	355.8	355.7	354.7	352.8	352.0	350.1
50°	338.9	338.1	338.9	338.1	338.9	338.1	338.9	336.8	335.6	333.6	332.0
52.5°	321.1	321.2	320.8	320.6	320.8	321.2	321.1	318.5	317.8	317.1	314.6
55°	293.2	294.0	293.6	293.6	293.6	294.0	293.2	291.6	291.1	288.8	286.3
57.5°	264.4	265.1	265.6	263.8	265.6	265.1	264.4	264.0	263.8	261.3	258.6
60°	244.2	246.3	245.9	245.1	245.9	246.3	244.2	244.6	243.4	241.9	240.2
62.5°	225.9	226.6	226.5	226.3	226.5	226.6	225.9	223.9	223.4	221.7	220.1
65°	197.3	198.1	196.9	198.1	196.9	198.1	197.3	196.1	193.3	192.5	190.8
67.5°	166.7	166.9	167.9	168.4	167.9	166.9	166.7	167.2	165.3	163.7	163.4
70°	147.6	147.2	148.4	149.6	148.4	147.2	147.6	146.8	145.6	144.3	142.8
72.5°	127.5	128.4	128.0	128.9	128.0	128.4	127.5	127.7	126.5	124.9	123.3
75°	98.2	99.5	99.1	100.3	99.1	99.5	98.2	99.1	98.2	96.6	95.1
77.5°	71.0	71.1	71.0	71.7	71.0	71.1	71.0	71.7	70.7	71.3	69.5
80°	54.2	53.4	52.6	54.2	52.6	53.4	54.2	54.2	53.0	54.2	53.0
82.5°	37.7	38.2	37.4	37.4	37.4	38.2	37.7	38.7	38.1	38.7	37.5
85°	17.4	17.0	16.2	16.2	16.2	17.0	17.4	17.4	18.6	17.8	17.8
87.5°	5.0	4.7	4.7	4.4	4.7	4.7	5.0	4.9	4.9	5.5	5.4
90°	8.7	8.9	9.0	9.1	9.0	8.9	8.7	8.6	8.2	7.9	7.5
92.5°	8.9	9.0	9.0	9.1	9.0	9.0	8.9	8.8	8.6	8.5	8.2
95°	14.8	14.7	14.7	14.6	14.7	14.7	14.8	14.9	14.7	14.3	13.9
97.5°	19.2	19.3	19.3	19.4	19.3	19.3	19.2	19.1	18.9	18.6	18.3
100°	22.3	22.4	22.5	22.7	22.5	22.4	22.3	22.1	21.7	21.1	20.5
102.5°	23.7	23.9	24.1	24.3	24.1	23.9	23.7	23.4	23.0	22.2	21.4
105°	24.8	25.1	25.4	25.7	25.4	25.1	24.8	24.6	24.0	23.1	22.3
107.5°	25.6	25.9	26.1	26.5	26.1	25.9	25.6	25.3	25.5	26.4	27.3
110°	25.8	26.1	26.5	26.8	26.5	26.1	25.8	25.5	29.2	36.7	44.2



TEST NUMBER: P331525-927

CATALOG NUMBER: S122DIW-S675D435U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	26.3	26.5	26.8	27.0	26.8	26.5	26.3	26.1	39.7	67.1	94.6
115°	44.0	38.6	33.2	27.7	33.2	38.6	44.0	49.4	69.6	104.4	139.3
117.5°	166.8	148.9	131.2	113.4	131.2	148.9	166.8	184.6	197.6	206.1	214.5
120°	237.0	226.9	216.7	206.5	216.7	226.9	237.0	247.2	251.8	250.9	250.0
122.5°	263.6	261.7	259.7	257.7	259.7	261.7	263.6	265.6	266.3	265.8	265.2
125°	288.8	289.1	289.3	289.5	289.3	289.1	288.8	288.6	288.2	287.7	287.2
127.5°	309.4	309.4	309.5	309.5	309.5	309.4	309.4	309.3	309.0	308.2	307.4
130°	322.3	322.2	322.1	322.0	322.1	322.2	322.3	322.3	321.9	321.1	320.3
132.5°	334.4	334.3	334.3	334.2	334.3	334.3	334.4	334.5	334.1	333.4	332.8
135°	352.3	352.1	352.0	351.8	352.0	352.1	352.3	352.4	352.1	351.3	350.6
137.5°	368.6	368.4	368.1	367.8	368.1	368.4	368.6	368.8	368.6	367.9	367.2
140°	379.0	378.6	378.3	377.9	378.3	378.6	379.0	379.4	379.2	378.6	377.9
142.5°	388.7	388.4	388.0	387.6	388.0	388.4	388.7	389.1	389.0	388.4	387.8
145°	402.3	402.0	401.6	401.2	401.6	402.0	402.3	402.7	402.7	402.1	401.6
147.5°	414.2	413.8	413.5	413.2	413.5	413.8	414.2	414.5	414.5	414.1	413.7
150°	421.7	421.3	420.9	420.6	420.9	421.3	421.7	422.1	422.0	421.5	421.1
152.5°	428.3	427.8	427.2	426.7	427.2	427.8	428.3	428.7	428.8	428.3	427.9
155°	437.2	436.7	436.0	435.5	436.0	436.7	437.2	437.8	437.9	437.4	437.0
157.5°	445.1	444.5	443.9	443.4	443.9	444.5	445.1	445.7	445.8	445.2	444.7
160°	449.6	449.0	448.5	448.0	448.5	449.0	449.6	450.0	450.1	449.6	449.2
162.5°	453.7	453.0	452.4	451.8	452.4	453.0	453.7	454.3	454.4	453.9	453.4
165°	459.0	458.5	458.0	457.4	458.0	458.5	459.0	459.5	459.5	459.0	458.5
167.5°	463.0	462.4	461.7	461.1	461.7	462.4	463.0	463.7	463.8	463.3	462.8
170°	465.2	464.5	463.9	463.2	463.9	464.5	465.2	465.9	466.0	465.5	464.9
172.5°	466.8	466.2	465.5	464.9	465.5	466.2	466.8	467.5	467.6	467.1	466.5
175°	468.5	467.8	467.0	466.3	467.0	467.8	468.5	469.3	469.4	468.8	468.3
177.5°	468.7	468.2	467.6	467.1	467.6	468.2	468.7	469.3	469.4	468.9	468.5
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331525-927

CATALOG NUMBER: S122DIW-S675D435U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1011.1	1014.7	1020.2	1026.0	1029.6	1036.4	1038.3	1041.6	1044.5	1051.3	1058.4
5°	952.8	958.4	971.8	979.1	989.1	1000.8	1008.5	1016.7	1025.6	1040.9	1055.0
7.5°	890.2	899.6	916.2	929.8	944.2	961.0	973.1	989.1	1002.4	1024.1	1044.8
10°	848.4	861.7	876.7	892.9	913.1	930.9	947.9	968.1	984.3	1010.2	1034.4
12.5°	810.9	812.9	834.3	852.2	879.8	901.8	921.4	947.5	963.3	994.0	1019.5
15°	745.3	757.4	776.8	791.0	823.8	851.7	879.2	906.3	924.5	962.4	996.0
17.5°	690.1	701.2	721.1	744.3	767.9	795.6	831.2	859.8	884.5	928.0	967.7
20°	655.1	668.8	689.1	713.0	733.6	763.9	794.6	827.4	854.1	903.0	949.5
22.5°	625.3	636.2	652.5	676.0	698.6	726.4	760.0	795.7	823.7	876.5	923.6
25°	583.5	592.5	602.9	622.3	647.8	678.2	704.5	743.7	784.5	833.9	890.9
27.5°	545.8	552.2	561.5	578.5	598.3	626.6	655.8	693.1	734.1	787.7	847.9
30°	522.9	527.0	536.2	550.4	569.8	592.0	621.5	657.1	699.2	753.4	813.3
32.5°	502.8	506.5	512.6	526.1	543.0	562.0	588.6	624.2	664.2	717.5	783.8
35°	472.8	475.5	480.9	491.7	501.1	519.7	541.9	574.3	611.9	662.8	731.6
37.5°	442.8	446.6	449.9	454.5	466.4	478.6	498.0	525.3	562.2	613.6	679.1
40°	423.0	426.2	431.1	433.1	442.8	453.8	469.5	494.6	531.8	578.7	642.6
42.5°	402.9	406.2	409.1	411.5	419.9	429.4	443.6	465.2	498.1	543.8	607.0
45°	375.7	376.0	378.9	383.3	387.4	394.3	404.4	423.0	448.5	491.3	548.7
47.5°	348.0	348.5	349.0	350.9	355.4	361.6	368.3	383.4	406.2	440.5	496.4
50°	329.5	328.8	329.5	331.2	334.1	339.3	347.0	357.9	376.5	408.4	459.8
52.5°	311.8	311.6	311.2	311.8	313.9	317.6	323.1	332.3	349.0	378.3	423.6
55°	284.7	282.7	283.0	281.5	285.1	285.9	289.9	297.6	312.2	332.4	374.9
57.5°	255.8	254.1	252.3	251.8	251.5	253.7	257.0	263.0	274.2	291.9	326.4
60°	237.4	235.4	232.9	232.1	232.1	233.3	235.0	239.4	249.9	265.7	294.0
62.5°	218.6	216.3	214.8	212.7	212.1	213.3	214.9	218.1	225.6	240.4	264.9
65°	189.6	186.8	184.8	184.4	183.6	182.4	183.2	186.4	192.5	204.2	223.6
67.5°	160.7	158.0	157.5	155.1	154.0	154.2	154.0	156.8	160.4	170.5	185.0
70°	141.6	139.5	138.7	136.7	135.9	135.1	134.3	136.7	140.3	148.9	161.4
72.5°	122.2	120.4	118.7	116.9	117.1	116.3	116.1	117.6	120.6	128.4	138.1
75°	94.2	94.7	92.6	90.5	90.2	89.4	89.4	90.5	91.8	97.8	105.5
77.5°	68.4	68.0	66.3	65.7	65.3	64.4	65.3	66.1	66.7	70.7	76.4
80°	52.2	52.2	50.1	50.1	49.7	48.6	49.7	49.0	50.5	54.6	58.6
82.5°	37.3	36.6	36.5	35.9	35.8	34.9	35.5	36.3	37.0	39.7	42.1
85°	18.2	18.2	17.8	17.4	17.8	17.4	17.8	18.2	18.6	19.8	21.9
87.5°	5.3	5.5	5.8	5.9	5.9	6.0	6.3	6.4	6.9	7.1	7.2
90°	7.1	6.7	6.2	5.5	5.0	4.4	3.6	2.9	2.0	1.2	0.3
92.5°	8.1	7.8	7.5	7.3	7.0	6.7	6.6	6.6	6.7	6.7	6.8
95°	13.5	13.2	12.7	12.1	11.6	11.1	12.0	14.6	17.0	19.5	22.0
97.5°	18.0	17.7	16.5	15.2	14.0	12.8	15.7	22.7	29.7	36.7	43.6
100°	19.9	19.3	18.0	16.7	15.4	14.2	18.7	29.0	39.3	49.6	60.0
102.5°	20.6	19.8	30.6	41.3	52.0	62.7	69.1	71.3	73.4	75.7	77.8
105°	21.5	20.7	41.2	61.7	82.3	102.8	111.9	109.7	107.4	105.2	102.9
107.5°	28.0	28.9	53.6	78.2	102.8	127.5	138.9	137.0	135.2	133.4	131.6
110°	51.7	59.3	81.0	102.7	124.5	146.2	156.3	154.7	153.1	151.5	150.0



TEST NUMBER: P331525-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	122.0	149.5	154.8	160.2	165.6	171.0	172.9	171.5	170.2	168.7	167.3
115°	174.0	208.9	207.0	205.2	203.3	201.4	199.8	198.5	197.3	196.0	194.7
117.5°	223.0	231.4	230.1	228.8	227.5	226.2	224.8	223.4	222.0	220.5	219.1
120°	249.1	248.2	246.8	245.5	244.2	242.8	241.5	240.4	239.2	238.1	237.0
122.5°	264.7	264.2	262.7	261.2	259.8	258.3	256.9	255.7	254.5	253.3	252.2
125°	286.6	286.1	284.7	283.3	281.9	280.4	279.2	278.2	277.3	276.2	275.3
127.5°	306.7	305.9	304.8	303.7	302.7	301.6	300.6	299.4	298.3	297.3	296.2
130°	319.4	318.6	317.8	317.0	316.2	315.3	314.3	313.1	311.9	310.7	309.5
132.5°	332.1	331.4	330.5	329.7	328.8	328.0	327.1	326.1	325.0	324.0	323.1
135°	349.8	349.1	348.4	347.8	347.1	346.3	345.5	344.2	343.0	341.8	340.6
137.5°	366.4	365.7	364.9	364.2	363.4	362.6	361.8	361.0	360.1	359.3	358.5
140°	377.2	376.5	375.7	374.9	374.1	373.2	372.5	371.9	371.3	370.7	370.1
142.5°	387.1	386.5	385.6	384.6	383.7	382.8	382.0	381.4	380.9	380.4	379.9
145°	401.1	400.5	399.3	398.0	396.7	395.5	394.8	394.9	395.0	395.1	395.1
147.5°	413.3	412.9	411.6	410.4	409.1	407.8	407.3	407.7	407.9	408.2	408.4
150°	420.6	420.2	419.0	417.8	416.6	415.3	415.0	415.6	416.1	416.6	417.2
152.5°	427.4	427.0	425.8	424.7	423.5	422.4	422.1	422.7	423.3	423.9	424.5
155°	436.6	436.1	435.2	434.3	433.4	432.5	432.4	433.1	433.7	434.4	435.1
157.5°	444.2	443.7	443.1	442.4	441.8	441.2	441.2	441.7	442.3	442.8	443.4
160°	448.8	448.3	447.8	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3
162.5°	452.9	452.3	451.9	451.5	451.1	450.8	450.8	451.3	451.7	452.2	452.7
165°	458.0	457.4	457.2	457.0	456.8	456.5	456.6	457.1	457.6	458.0	458.4
167.5°	462.2	461.7	461.5	461.3	461.1	460.9	461.0	461.4	461.9	462.3	462.8
170°	464.4	463.9	463.7	463.6	463.4	463.3	463.4	463.9	464.3	464.8	465.2
172.5°	466.0	465.5	465.3	465.2	465.0	464.9	465.0	465.5	466.0	466.4	466.8
175°	467.8	467.2	467.1	467.0	466.8	466.7	466.8	467.4	467.9	468.4	469.0
177.5°	468.1	467.6	467.6	467.5	467.5	467.4	467.6	468.0	468.4	468.9	469.3
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331525-927

CATALOG NUMBER: S122DIW-S675D435U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1057.7	1059.4	1064.5	1069.7	1075.5	1077.1	1079.7	1077.4	1076.8	1083.0	1087.5
5°	1060.7	1068.0	1082.2	1095.1	1106.0	1113.7	1121.8	1125.1	1131.1	1139.6	1150.1
7.5°	1057.3	1071.5	1093.8	1112.5	1133.1	1148.0	1159.5	1169.3	1181.3	1197.4	1215.0
10°	1053.4	1072.5	1099.5	1122.6	1147.6	1166.6	1182.5	1197.8	1215.6	1237.9	1260.9
12.5°	1046.3	1068.9	1102.8	1130.0	1162.2	1180.9	1202.2	1235.3	1254.4	1285.4	1317.9
15°	1032.1	1057.1	1104.4	1138.0	1174.3	1210.0	1249.2	1280.7	1312.2	1330.5	1376.2
17.5°	1010.7	1047.6	1099.9	1139.1	1185.3	1241.4	1285.5	1321.2	1357.6	1387.2	1410.1
20°	993.6	1033.6	1093.4	1140.4	1195.4	1255.6	1306.2	1342.6	1374.1	1398.8	1412.9
22.5°	971.9	1022.3	1080.5	1135.5	1205.8	1265.4	1318.5	1347.1	1373.5	1385.5	1391.0
25°	937.8	998.5	1064.4	1131.5	1210.8	1273.8	1322.4	1339.7	1347.4	1335.7	1316.3
27.5°	901.0	968.6	1045.7	1123.9	1207.7	1268.4	1303.1	1300.4	1287.4	1249.4	1219.1
30°	873.5	947.9	1030.8	1116.1	1200.2	1259.3	1279.5	1259.3	1229.8	1187.3	1144.1
32.5°	844.7	921.7	1014.9	1105.1	1186.7	1238.6	1242.9	1208.2	1162.4	1114.2	1060.3
35°	801.1	884.4	985.1	1080.5	1157.8	1190.6	1171.2	1109.7	1055.5	989.6	915.9
37.5°	751.9	843.8	944.8	1044.6	1114.5	1123.1	1074.9	1010.2	933.7	856.3	769.7
40°	714.9	812.5	916.4	1017.1	1079.0	1070.0	1008.5	937.4	846.4	751.8	671.3
42.5°	682.0	779.4	885.3	984.0	1033.6	1009.2	937.4	850.0	752.3	663.1	589.5
45°	624.8	725.1	833.5	928.9	957.2	913.1	818.1	721.0	624.8	550.4	492.2
47.5°	569.3	668.4	775.8	859.7	869.7	810.4	706.5	606.7	523.9	463.3	422.2
50°	528.5	628.0	734.4	809.2	806.0	734.4	627.6	532.6	463.4	414.5	387.0
52.5°	492.0	586.0	688.1	756.1	739.0	660.9	559.0	474.7	417.8	379.5	354.7
55°	435.1	522.0	619.1	673.8	642.1	555.6	469.5	401.6	359.5	330.8	311.4
57.5°	378.7	460.2	543.3	576.9	542.1	462.2	390.3	341.0	309.4	288.2	275.5
60°	343.7	414.9	488.9	518.0	476.3	405.2	348.6	304.5	279.0	261.7	250.3
62.5°	308.8	372.6	442.4	458.2	420.1	359.9	309.7	273.1	252.2	236.7	226.1
65°	261.3	313.4	366.4	376.9	341.7	295.2	255.6	231.7	213.1	201.8	193.3
67.5°	214.3	256.1	293.7	302.1	271.3	239.1	210.5	189.6	177.1	167.6	160.5
70°	186.4	219.6	250.3	257.2	232.5	203.8	182.0	165.4	154.1	146.0	139.1
72.5°	157.0	184.7	210.2	214.8	194.6	172.8	154.8	141.8	131.7	126.6	120.0
75°	120.1	136.3	156.1	157.3	143.9	130.6	116.8	108.4	103.1	96.6	93.4
77.5°	84.8	97.4	108.8	111.0	103.1	94.0	86.3	79.6	75.1	72.2	69.2
80°	64.7	74.8	79.7	82.5	76.8	70.3	65.9	61.5	58.6	56.6	54.6
82.5°	46.3	52.5	57.0	59.2	56.2	52.3	47.8	45.3	43.1	41.4	40.7
85°	23.4	26.3	29.2	29.9	29.2	27.5	25.0	25.0	23.8	23.4	23.4
87.5°	8.3	9.7	10.0	11.1	10.6	10.7	10.9	10.6	10.4	10.1	9.9
90°	1.2	2.0	2.9	3.6	4.4	5.0	5.5	6.2	6.7	7.1	7.5
92.5°	6.7	6.7	6.6	6.6	6.7	7.0	7.3	7.5	7.8	8.1	8.2
95°	19.5	17.0	14.6	12.0	11.1	11.6	12.1	12.7	13.2	13.5	13.9
97.5°	36.7	29.7	22.7	15.7	12.8	14.0	15.2	16.5	17.7	18.0	18.3
100°	49.6	39.3	29.0	18.7	14.2	15.4	16.7	18.0	19.3	19.9	20.5
102.5°	75.7	73.4	71.3	69.1	62.7	52.0	41.3	30.6	19.8	20.6	21.4
105°	105.2	107.4	109.7	111.9	102.8	82.3	61.7	41.2	20.7	21.5	22.3
107.5°	133.4	135.2	137.0	138.9	127.5	102.8	78.2	53.6	28.9	28.0	27.3
110°	151.5	153.1	154.7	156.3	146.2	124.5	102.7	81.0	59.3	51.7	44.2





TEST NUMBER: P331525-927

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	168.7	170.2	171.5	172.9	171.0	165.6	160.2	154.8	149.5	122.0	94.6
115°	196.0	197.3	198.5	199.8	201.4	203.3	205.2	207.0	208.9	174.0	139.3
117.5°	220.5	222.0	223.4	224.8	226.2	227.5	228.8	230.1	231.4	223.0	214.5
120°	238.1	239.2	240.4	241.5	242.8	244.2	245.5	246.8	248.2	249.1	250.0
122.5°	253.3	254.5	255.7	256.9	258.3	259.8	261.2	262.7	264.2	264.7	265.2
125°	276.2	277.3	278.2	279.2	280.4	281.9	283.3	284.7	286.1	286.6	287.2
127.5°	297.3	298.3	299.4	300.6	301.6	302.7	303.7	304.8	305.9	306.7	307.4
130°	310.7	311.9	313.1	314.3	315.3	316.2	317.0	317.8	318.6	319.4	320.3
132.5°	324.0	325.0	326.1	327.1	328.0	328.8	329.7	330.5	331.4	332.1	332.8
135°	341.8	343.0	344.2	345.5	346.3	347.1	347.8	348.4	349.1	349.8	350.6
137.5°	359.3	360.1	361.0	361.8	362.6	363.4	364.2	364.9	365.7	366.4	367.2
140°	370.7	371.3	371.9	372.5	373.2	374.1	374.9	375.7	376.5	377.2	377.9
142.5°	380.4	380.9	381.4	382.0	382.8	383.7	384.6	385.6	386.5	387.1	387.8
145°	395.1	395.0	394.9	394.8	395.5	396.7	398.0	399.3	400.5	401.1	401.6
147.5°	408.2	407.9	407.7	407.3	407.8	409.1	410.4	411.6	412.9	413.3	413.7
150°	416.6	416.1	415.6	415.0	415.3	416.6	417.8	419.0	420.2	420.6	421.1
152.5°	423.9	423.3	422.7	422.1	422.4	423.5	424.7	425.8	427.0	427.4	427.9
155°	434.4	433.7	433.1	432.4	432.5	433.4	434.3	435.2	436.1	436.6	437.0
157.5°	442.8	442.3	441.7	441.2	441.2	441.8	442.4	443.1	443.7	444.2	444.7
160°	447.8	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3	448.8	449.2
162.5°	452.2	451.7	451.3	450.8	450.8	451.1	451.5	451.9	452.3	452.9	453.4
165°	458.0	457.6	457.1	456.6	456.5	456.8	457.0	457.2	457.4	458.0	458.5
167.5°	462.3	461.9	461.4	461.0	460.9	461.1	461.3	461.5	461.7	462.2	462.8
170°	464.8	464.3	463.9	463.4	463.3	463.4	463.6	463.7	463.9	464.4	464.9
172.5°	466.4	466.0	465.5	465.0	464.9	465.0	465.2	465.3	465.5	466.0	466.5
175°	468.4	467.9	467.4	466.8	466.7	466.8	467.0	467.1	467.2	467.8	468.3
177.5°	468.9	468.4	468.0	467.6	467.4	467.5	467.5	467.6	467.6	468.1	468.5
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1091.4	1095.9	1095.9	1096.5	1101.8	1101.1	1100.7
5°	1161.4	1168.3	1169.1	1176.4	1181.2	1179.6	1175.2
7.5°	1227.5	1240.3	1250.0	1255.4	1261.8	1265.7	1264.0
10°	1279.9	1298.5	1309.9	1317.6	1326.8	1333.7	1331.3
12.5°	1327.5	1349.6	1365.2	1378.3	1379.6	1388.4	1382.4
15°	1401.6	1425.1	1427.5	1437.3	1444.9	1444.1	1444.5
17.5°	1426.2	1433.7	1435.2	1435.4	1435.5	1432.7	1426.6
20°	1417.4	1414.6	1407.7	1402.5	1393.1	1391.9	1383.9
22.5°	1376.0	1367.0	1349.8	1338.4	1323.9	1320.1	1317.9
25°	1294.5	1274.6	1247.1	1220.8	1213.6	1199.4	1203.5
27.5°	1182.6	1151.8	1122.0	1100.6	1081.2	1060.1	1066.1
30°	1104.0	1069.2	1027.1	994.8	974.2	953.9	950.3
32.5°	1010.2	959.3	912.3	883.8	852.2	839.5	825.5
35°	848.4	798.7	752.2	712.2	689.1	671.3	655.1
37.5°	702.9	645.6	608.2	575.7	559.0	548.8	551.4
40°	612.7	562.5	535.0	510.3	495.0	487.7	489.3
42.5°	539.6	502.0	479.3	462.5	451.6	447.6	446.6
45°	456.5	435.5	416.9	407.3	402.0	397.5	394.7
47.5°	400.0	382.8	372.3	366.5	361.9	357.4	357.4
50°	366.0	354.7	347.4	341.3	337.7	334.5	337.2
52.5°	340.1	329.7	322.5	317.0	315.7	312.8	312.7
55°	301.7	293.6	288.4	283.4	281.1	279.4	277.4
57.5°	266.7	259.0	254.2	251.1	246.5	244.9	244.2
60°	241.9	235.8	230.9	226.9	224.8	221.6	221.6
62.5°	218.9	212.8	208.3	205.2	201.8	200.6	200.9
65°	185.6	180.8	176.3	173.1	172.3	169.8	170.6
67.5°	155.0	151.8	147.1	145.4	143.8	142.5	141.6
70°	134.7	131.4	129.0	126.6	125.3	125.3	125.3
72.5°	117.5	113.6	112.2	109.1	109.8	108.5	107.3
75°	91.0	88.6	87.4	86.1	84.1	84.1	84.1
77.5°	66.9	66.2	64.8	63.5	63.0	62.6	62.7
80°	51.7	51.3	50.5	50.5	49.7	49.4	48.6
82.5°	39.8	38.7	38.3	37.9	37.8	37.7	37.5
85°	22.7	21.9	21.9	22.3	21.5	21.5	21.9
87.5°	10.3	10.4	10.1	10.1	10.5	10.2	10.2
90°	7.9	8.2	8.6	8.7	8.9	9.0	9.1
92.5°	8.5	8.6	8.8	8.9	9.0	9.0	9.1
95°	14.3	14.7	14.9	14.8	14.7	14.7	14.6
97.5°	18.6	18.9	19.1	19.2	19.3	19.3	19.4
100°	21.1	21.7	22.1	22.3	22.4	22.5	22.7
102.5°	22.2	23.0	23.4	23.7	23.9	24.1	24.3
105°	23.1	24.0	24.6	24.8	25.1	25.4	25.7
107.5°	26.4	25.5	25.3	25.6	25.9	26.1	26.5
110°	36.7	29.2	25.5	25.8	26.1	26.5	26.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	67.1	39.7	26.1	26.3	26.5	26.8	27.0
115°	104.4	69.6	49.4	44.0	38.6	33.2	27.7
117.5°	206.1	197.6	184.6	166.8	148.9	131.2	113.4
120°	250.9	251.8	247.2	237.0	226.9	216.7	206.5
122.5°	265.8	266.3	265.6	263.6	261.7	259.7	257.7
125°	287.7	288.2	288.6	288.8	289.1	289.3	289.5
127.5°	308.2	309.0	309.3	309.4	309.4	309.5	309.5
130°	321.1	321.9	322.3	322.3	322.2	322.1	322.0
132.5°	333.4	334.1	334.5	334.4	334.3	334.3	334.2
135°	351.3	352.1	352.4	352.3	352.1	352.0	351.8
137.5°	367.9	368.6	368.8	368.6	368.4	368.1	367.8
140°	378.6	379.2	379.4	379.0	378.6	378.3	377.9
142.5°	388.4	389.0	389.1	388.7	388.4	388.0	387.6
145°	402.1	402.7	402.7	402.3	402.0	401.6	401.2
147.5°	414.1	414.5	414.5	414.2	413.8	413.5	413.2
150°	421.5	422.0	422.1	421.7	421.3	420.9	420.6
152.5°	428.3	428.8	428.7	428.3	427.8	427.2	426.7
155°	437.4	437.9	437.8	437.2	436.7	436.0	435.5
157.5°	445.2	445.8	445.7	445.1	444.5	443.9	443.4
160°	449.6	450.1	450.0	449.6	449.0	448.5	448.0
162.5°	453.9	454.4	454.3	453.7	453.0	452.4	451.8
165°	459.0	459.5	459.5	459.0	458.5	458.0	457.4
167.5°	463.3	463.8	463.7	463.0	462.4	461.7	461.1
170°	465.5	466.0	465.9	465.2	464.5	463.9	463.2
172.5°	467.1	467.6	467.5	466.8	466.2	465.5	464.9
175°	468.8	469.4	469.3	468.5	467.8	467.0	466.3
177.5°	468.9	469.4	469.3	468.7	468.2	467.6	467.1
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9

(END OF REPORT)