

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331330-935

Luminaire Tested: **SA2XXDIP-C675D330U935-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331330-935  
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-C675D330U935-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

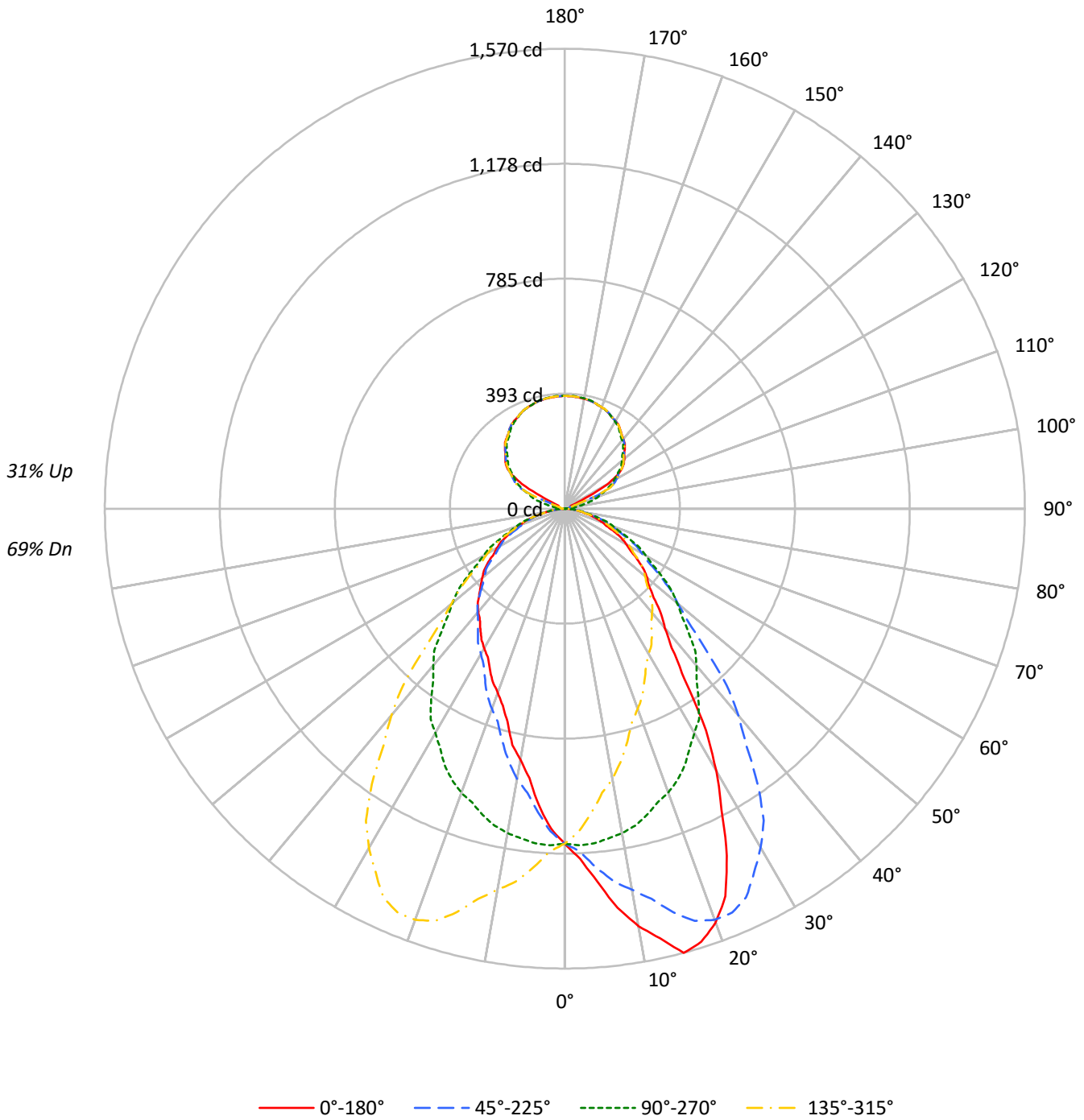
Lumens per Lamp: N/A  
Luminaire Lumens: 3651.5 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	94	94	94	83	83	83	74	74	74	69
1	103	99	95	91	97	93	90	87	83	81	79	74	73	71	66	65	64	60
2	94	87	81	76	89	82	77	73	74	70	66	66	63	60	59	57	55	51
3	86	77	70	64	81	73	67	61	66	61	57	59	55	52	53	50	47	44
4	79	69	61	55	75	65	58	53	59	53	49	53	49	45	48	44	41	38
5	73	62	54	48	69	59	51	46	53	47	43	48	43	40	43	40	36	34
6	68	56	48	42	64	53	46	40	48	42	38	44	39	35	40	36	32	30
7	63	51	43	37	59	48	41	36	44	38	34	40	35	31	36	32	29	27
8	59	46	39	33	55	44	37	32	41	35	30	37	32	28	34	29	26	24
9	55	43	35	30	52	41	34	29	37	31	27	34	29	26	31	27	24	22
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22	20

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

	0°	90°	180°	270°
0°	18466	18466	18466	18466
5°	20702	18585	16470	18585
10°	23722	18433	14254	18433
15°	26242	18094	12593	18094
20°	25844	17732	11478	17732
25°	23302	17250	10774	17250
30°	19257	16479	10260	16479
35°	14034	15672	9895	15672
40°	11209	14720	9691	14720
45°	9796	13618	9412	13618
50°	9206	12552	9231	12552
55°	8487	11468	8982	11468
60°	7776	10317	8603	10317
65°	7087	9287	8225	9287
70°	6430	8280	7676	8280
75°	5702	7155	6800	7155
80°	4909	5923	5477	5923
85°	4409	4409	3260	4409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	3.0
10°-20°	316.6	8.7
20°-30°	459.5	12.6
30°-40°	484.9	13.3
40°-50°	429.4	11.8
50°-60°	342.6	9.4
60°-70°	232.9	6.4
70°-80°	119.4	3.3
80°-90°	29.7	0.8
90°-100°	12.8	0.4
100°-110°	47.1	1.3
110°-120°	125.8	3.4
120°-130°	207.7	5.7
130°-140°	220.8	6.0
140°-150°	205.3	5.6
150°-160°	165.0	4.5
160°-170°	106.3	2.9
170°-180°	36.6	1.0
0°-30°	885.1	24.2
0°-40°	1370.0	37.5
0°-60°	2142.0	58.7
0°-90°	2524.1	69.1
90°-120°	185.7	5.1
90°-150°	819.5	22.4
90°-180°	1127.0	30.9
0°-180°	3651.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1144	1144	1144	1144	1144	
5°	1277	1147	1016	1147	1277	128
15°	1570	1082	753	1082	1570	433
25°	1308	968	605	968	1308	591
35°	712	795	502	795	712	463
45°	429	596	412	596	429	337
55°	302	407	319	407	302	270
65°	186	243	215	243	186	184
75°	91	115	109	115	91	98
85°	24	24	18	24	24	26
90°	8	0	8	0	8	5
95°	12	18	12	18	12	11
105°	21	85	21	85	21	22
115°	23	160	23	160	23	57
125°	238	226	238	226	238	206
135°	289	280	289	280	289	223
145°	330	325	330	325	330	206
155°	358	358	358	358	358	165
165°	376	377	376	377	376	106
175°	383	386	383	386	383	37
180°	385	385	385	385	385	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1196.4	1196.7	1197.5	1191.8	1191.1	1191.1	1186.2	1182.0	1177.1	1170.4	1171.0
5°	1277.3	1282.1	1283.8	1278.6	1270.7	1269.8	1262.3	1250.0	1238.5	1229.3	1222.8
7.5°	1373.8	1375.7	1371.4	1364.4	1358.6	1348.1	1334.1	1320.5	1301.4	1283.9	1270.9
10°	1446.9	1449.6	1442.1	1432.0	1423.7	1411.4	1391.1	1370.5	1345.4	1321.2	1301.8
12.5°	1502.4	1509.0	1499.4	1498.1	1483.8	1466.9	1442.8	1432.4	1397.1	1363.4	1342.6
15°	1569.9	1569.5	1570.5	1562.1	1551.5	1548.9	1523.4	1495.7	1446.0	1426.2	1392.0
17.5°	1550.5	1557.1	1560.2	1560.1	1559.9	1558.2	1550.1	1532.6	1507.7	1475.6	1436.0
20°	1504.1	1512.9	1514.2	1524.3	1530.0	1537.5	1540.5	1535.7	1520.4	1493.5	1459.2
22.5°	1432.4	1434.8	1438.9	1454.7	1467.1	1485.7	1495.6	1511.8	1505.9	1492.8	1464.1
25°	1308.0	1303.6	1319.1	1326.9	1355.5	1385.3	1407.0	1430.6	1451.7	1464.5	1456.1
27.5°	1158.7	1152.2	1175.2	1196.2	1219.4	1251.8	1285.4	1325.0	1358.0	1399.2	1413.3
30°	1032.9	1036.8	1058.9	1081.2	1116.4	1162.1	1199.9	1243.5	1290.5	1336.6	1368.6
32.5°	897.2	912.4	926.3	960.6	991.5	1042.6	1097.9	1152.4	1211.0	1263.4	1313.1
35°	712.0	729.6	749.0	774.0	817.5	868.1	922.1	995.5	1075.6	1147.2	1206.1
37.5°	599.3	596.5	607.6	625.7	661.0	701.7	764.0	836.5	930.7	1014.9	1097.9
40°	531.8	530.0	538.0	554.7	581.5	611.4	665.9	729.6	817.1	919.9	1018.8
42.5°	485.4	486.5	490.9	502.7	521.0	545.6	586.4	640.7	720.7	817.6	923.9
45°	429.0	432.0	436.9	442.6	453.1	473.4	496.2	534.9	598.2	679.1	783.7
47.5°	388.4	388.5	393.4	398.4	404.7	416.0	434.7	458.9	503.6	569.5	659.4
50°	366.5	363.5	367.0	370.9	377.5	385.5	397.8	420.6	450.5	503.7	578.9
52.5°	339.8	339.9	343.1	344.6	350.5	358.3	369.6	385.5	412.5	454.1	515.9
55°	301.5	303.7	305.5	308.1	313.4	319.1	327.9	338.5	359.6	390.7	436.4
57.5°	265.4	266.1	267.9	272.9	276.3	281.5	289.9	299.5	313.2	336.3	370.7
60°	240.8	240.8	244.4	246.6	251.0	256.2	262.9	272.1	284.4	303.2	331.0
62.5°	218.3	218.0	219.4	223.0	226.4	231.3	237.9	245.7	257.3	274.1	296.9
65°	185.5	184.6	187.3	188.1	191.7	196.5	201.7	210.1	219.3	231.6	251.8
67.5°	153.9	154.9	156.3	158.0	159.9	165.0	168.5	174.4	182.2	192.4	206.1
70°	136.2	136.2	136.2	137.6	140.2	142.8	146.4	151.2	158.7	167.5	179.8
72.5°	116.6	118.0	119.3	118.6	121.9	123.5	127.7	130.4	137.6	143.2	154.1
75°	91.4	91.4	91.4	93.6	95.0	96.3	98.9	101.5	105.0	112.1	117.8
77.5°	68.2	68.0	68.4	69.0	70.4	72.0	72.8	75.2	78.4	81.6	86.5
80°	52.8	53.6	54.1	54.9	54.9	55.8	56.2	59.3	61.6	63.7	66.8
82.5°	40.8	41.0	41.1	41.2	41.6	42.1	43.2	44.3	45.0	46.8	49.2
85°	23.8	23.3	23.3	24.2	23.8	23.8	24.6	25.5	25.5	25.9	27.2
87.5°	10.7	10.6	10.9	10.6	10.5	10.8	10.8	10.4	10.7	10.9	11.2
90°	7.5	7.4	7.2	7.1	7.1	6.8	6.5	6.2	5.9	5.6	5.1
92.5°	7.5	7.4	7.4	7.3	7.2	7.1	7.0	6.8	6.6	6.5	6.2
95°	12.0	12.1	12.1	12.1	12.2	12.1	11.8	11.5	11.2	10.8	10.4
97.5°	16.0	15.9	15.8	15.8	15.7	15.5	15.2	15.1	14.8	14.6	13.5
100°	18.7	18.5	18.4	18.3	18.2	17.8	17.4	16.9	16.4	15.8	14.8
102.5°	20.0	19.8	19.6	19.5	19.3	18.9	18.3	17.6	17.0	16.3	25.1
105°	21.2	20.9	20.7	20.4	20.1	19.7	19.0	18.3	17.7	17.0	33.8
107.5°	21.8	21.5	21.3	21.0	20.8	21.0	21.7	22.4	23.1	23.8	44.0
110°	22.0	21.8	21.5	21.3	21.0	23.9	30.1	36.3	42.5	48.7	66.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	22.2	22.0	21.8	21.6	21.4	32.6	55.2	77.7	100.3	122.9	127.3
115°	22.8	27.3	31.8	36.2	40.6	57.2	85.8	114.5	143.1	171.8	170.2
117.5°	93.2	107.9	122.5	137.2	151.8	162.6	169.4	176.4	183.3	190.3	189.2
120°	169.8	178.1	186.5	194.8	203.2	207.0	206.3	205.5	204.8	204.1	202.9
122.5°	211.9	213.5	215.2	216.8	218.3	219.0	218.5	218.1	217.7	217.2	216.0
125°	238.0	237.8	237.6	237.5	237.3	236.9	236.5	236.1	235.7	235.2	234.0
127.5°	254.5	254.4	254.4	254.4	254.3	254.0	253.4	252.8	252.1	251.5	250.6
130°	264.8	264.8	264.8	264.9	265.0	264.7	264.0	263.3	262.6	262.0	261.3
132.5°	274.7	274.8	274.9	274.9	275.0	274.7	274.1	273.6	273.0	272.4	271.7
135°	289.2	289.4	289.5	289.6	289.7	289.5	288.9	288.3	287.7	287.1	286.5
137.5°	302.5	302.6	302.9	303.1	303.2	303.1	302.5	301.9	301.3	300.7	300.1
140°	310.6	311.0	311.3	311.6	311.9	311.8	311.3	310.6	310.1	309.5	308.9
142.5°	318.7	319.0	319.3	319.6	319.9	319.9	319.3	318.8	318.3	317.8	317.0
145°	329.8	330.2	330.5	330.8	331.1	331.1	330.6	330.2	329.8	329.3	328.3
147.5°	339.8	340.0	340.3	340.5	340.8	340.8	340.4	340.1	339.8	339.5	338.5
150°	345.8	346.0	346.4	346.7	347.0	347.0	346.6	346.2	345.9	345.5	344.5
152.5°	350.9	351.3	351.7	352.1	352.5	352.5	352.1	351.8	351.4	351.0	350.1
155°	358.0	358.5	359.0	359.5	360.0	360.1	359.6	359.3	359.0	358.5	357.8
157.5°	364.5	365.0	365.5	365.9	366.4	366.4	366.1	365.7	365.2	364.8	364.3
160°	368.3	368.8	369.2	369.6	370.1	370.1	369.7	369.4	368.9	368.6	368.2
162.5°	371.4	372.0	372.5	373.0	373.6	373.6	373.2	372.7	372.4	372.0	371.6
165°	376.1	376.5	376.9	377.4	377.8	377.8	377.4	376.9	376.5	376.1	375.9
167.5°	379.0	379.6	380.1	380.7	381.3	381.3	380.9	380.5	380.0	379.6	379.4
170°	380.8	381.4	381.9	382.5	383.1	383.1	382.7	382.3	381.9	381.4	381.3
172.5°	382.2	382.7	383.3	383.8	384.4	384.4	384.0	383.6	383.1	382.7	382.6
175°	383.3	383.9	384.6	385.2	385.8	385.9	385.5	385.0	384.6	384.2	384.1
177.5°	384.1	384.5	385.0	385.4	385.8	385.9	385.6	385.2	384.9	384.5	384.4
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1173.5	1170.7	1169.0	1162.6	1157.0	1151.4	1149.6	1150.3	1142.6	1135.2	1132.0
5°	1219.3	1210.5	1202.1	1190.2	1176.2	1160.8	1152.9	1146.7	1131.4	1114.7	1105.0
7.5°	1260.2	1247.7	1231.6	1209.2	1188.8	1164.6	1149.2	1135.6	1113.0	1089.5	1075.0
10°	1285.2	1268.0	1247.3	1220.1	1195.1	1165.6	1145.0	1124.3	1097.9	1069.8	1052.2
12.5°	1306.7	1283.5	1263.2	1228.2	1198.6	1161.7	1137.2	1108.1	1080.4	1047.0	1029.8
15°	1357.7	1315.1	1276.3	1236.8	1200.3	1148.9	1121.7	1082.5	1046.0	1004.8	985.0
17.5°	1397.1	1349.3	1288.3	1238.0	1195.5	1138.6	1098.5	1051.7	1008.6	961.3	934.4
20°	1419.7	1364.7	1299.2	1239.5	1188.4	1123.4	1080.0	1032.0	981.5	928.2	899.2
22.5°	1433.0	1375.3	1310.5	1234.2	1174.4	1111.1	1056.4	1003.8	952.6	895.3	864.8
25°	1437.3	1384.5	1316.0	1229.8	1156.8	1085.2	1019.3	968.3	906.3	852.6	808.3
27.5°	1416.3	1378.5	1312.6	1221.5	1136.5	1052.7	979.3	921.5	856.1	797.9	753.3
30°	1390.7	1368.6	1304.5	1213.1	1120.3	1030.3	949.3	883.9	818.8	759.9	714.2
32.5°	1350.9	1346.2	1289.8	1201.1	1103.1	1001.8	918.1	851.9	779.8	721.9	678.4
35°	1272.9	1294.0	1258.4	1174.4	1070.7	961.2	870.7	795.1	720.4	665.0	624.1
37.5°	1168.3	1220.6	1211.3	1135.3	1026.9	917.1	817.2	738.1	666.9	611.1	570.9
40°	1096.1	1163.0	1172.7	1105.4	996.0	883.0	777.1	698.4	629.0	578.0	537.5
42.5°	1018.8	1096.9	1123.4	1069.5	962.2	847.1	741.2	659.7	591.0	541.4	505.6
45°	889.2	992.5	1040.3	1009.6	905.9	788.1	679.1	596.4	534.0	487.4	459.8
47.5°	767.9	880.8	945.2	934.4	843.2	726.5	618.8	539.5	478.7	441.5	416.7
50°	682.2	798.1	876.0	879.5	798.1	682.6	574.5	499.7	443.9	409.2	389.0
52.5°	607.6	718.3	803.2	821.8	747.9	636.9	534.8	460.4	411.2	379.3	361.2
55°	510.3	603.9	697.9	732.3	672.9	567.4	472.9	407.4	361.3	339.3	323.5
57.5°	424.2	502.3	589.2	627.1	590.5	500.2	411.6	354.7	317.3	298.0	285.9
60°	378.8	440.4	517.7	563.0	531.4	451.0	373.6	319.5	288.8	271.6	260.2
62.5°	336.7	391.2	456.6	498.0	480.8	404.9	335.6	287.9	261.3	245.2	237.0
65°	277.8	320.9	371.4	409.7	398.2	340.6	284.0	243.1	222.0	209.2	202.6
67.5°	228.8	259.8	294.9	328.4	319.2	278.4	232.9	201.0	185.3	174.4	170.4
70°	197.8	221.5	252.7	279.6	272.1	238.7	202.6	175.4	161.8	152.5	148.5
72.5°	168.2	187.8	211.5	233.5	228.4	200.7	170.7	150.1	139.6	131.0	127.8
75°	127.0	142.0	156.4	171.0	169.6	148.1	130.5	114.7	106.3	99.8	98.4
77.5°	93.8	102.1	112.0	120.6	118.2	105.9	92.1	83.1	76.9	72.5	71.8
80°	71.6	76.5	83.5	89.6	86.6	81.3	70.3	63.7	59.3	54.9	53.2
82.5°	51.9	56.8	61.0	64.3	62.0	57.1	50.3	45.8	43.1	40.2	39.4
85°	27.2	29.9	31.7	32.5	31.7	28.6	25.5	23.8	21.5	20.2	19.8
87.5°	11.5	11.4	11.3	11.9	10.7	10.5	9.0	7.7	7.6	7.3	6.8
90°	4.6	4.0	3.6	3.0	2.3	1.6	0.9	0.3	0.9	1.6	2.3
92.5°	5.9	5.7	5.5	5.3	5.4	5.5	5.6	5.6	5.6	5.5	5.4
95°	10.0	9.6	9.1	9.9	12.0	14.0	16.0	18.1	16.0	14.0	12.0
97.5°	12.5	11.5	10.5	12.9	18.7	24.4	30.1	35.9	30.1	24.4	18.7
100°	13.8	12.7	11.6	15.4	23.8	32.3	40.8	49.2	40.8	32.3	23.8
102.5°	33.9	42.7	51.5	56.8	58.6	60.4	62.2	64.0	62.2	60.4	58.6
105°	50.8	67.7	84.6	92.0	90.2	88.3	86.4	84.6	86.4	88.3	90.2
107.5°	64.3	84.6	104.8	114.2	112.7	111.2	109.7	108.1	109.7	111.2	112.7
110°	84.5	102.4	120.2	128.5	127.3	126.0	124.6	123.3	124.6	126.0	127.3





TEST NUMBER: P331330-935

CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	131.7	136.1	140.5	142.2	141.0	139.9	138.7	137.6	138.7	139.9	141.0
115°	168.7	167.1	165.6	164.3	163.2	162.2	161.1	160.1	161.1	162.2	163.2
117.5°	188.1	187.1	186.0	184.9	183.7	182.5	181.3	180.2	181.3	182.5	183.7
120°	201.8	200.7	199.6	198.5	197.7	196.7	195.8	194.8	195.8	196.7	197.7
122.5°	214.7	213.5	212.3	211.3	210.3	209.3	208.4	207.3	208.4	209.3	210.3
125°	232.9	231.7	230.6	229.5	228.8	227.9	227.1	226.4	227.1	227.9	228.8
127.5°	249.8	248.8	248.0	247.1	246.2	245.3	244.4	243.5	244.4	245.3	246.2
130°	260.6	259.9	259.2	258.4	257.4	256.4	255.5	254.4	255.5	256.4	257.4
132.5°	271.0	270.4	269.7	269.0	268.1	267.3	266.4	265.6	266.4	267.3	268.1
135°	285.9	285.3	284.8	284.0	283.0	282.1	281.0	280.1	281.0	282.1	283.0
137.5°	299.4	298.8	298.2	297.5	296.8	296.1	295.4	294.7	295.4	296.1	296.8
140°	308.2	307.5	306.9	306.3	305.7	305.2	304.8	304.3	304.8	305.2	305.7
142.5°	316.2	315.5	314.7	314.1	313.7	313.1	312.7	312.3	312.7	313.1	313.7
145°	327.3	326.1	325.1	324.6	324.7	324.8	324.9	324.9	324.9	324.8	324.7
147.5°	337.4	336.3	335.3	334.9	335.1	335.4	335.6	335.9	335.6	335.4	335.1
150°	343.5	342.5	341.6	341.2	341.6	342.1	342.5	342.9	342.5	342.1	341.6
152.5°	349.1	348.2	347.2	347.1	347.5	348.0	348.5	349.0	348.5	348.0	347.5
155°	357.1	356.4	355.6	355.5	356.0	356.6	357.1	357.7	357.1	356.6	356.0
157.5°	363.8	363.3	362.7	362.7	363.2	363.6	364.1	364.5	364.1	363.6	363.2
160°	367.8	367.5	367.1	367.1	367.5	367.8	368.2	368.6	368.2	367.8	367.5
162.5°	371.3	370.9	370.7	370.7	371.0	371.4	371.8	372.1	371.8	371.4	371.0
165°	375.7	375.6	375.4	375.5	375.8	376.2	376.6	376.9	376.6	376.2	375.8
167.5°	379.3	379.1	378.9	379.0	379.4	379.8	380.1	380.5	380.1	379.8	379.4
170°	381.2	381.0	380.9	381.0	381.4	381.8	382.1	382.5	382.1	381.8	381.4
172.5°	382.5	382.4	382.2	382.4	382.7	383.1	383.5	383.8	383.5	383.1	382.7
175°	383.9	383.8	383.7	383.8	384.3	384.7	385.1	385.6	385.1	384.7	384.3
177.5°	384.4	384.4	384.4	384.4	384.8	385.1	385.5	385.8	385.5	385.1	384.8
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331330-935

CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1128.5	1126.4	1119.0	1115.2	1108.8	1102.9	1099.0	1100.8	1102.2	1101.5	1100.4
5°	1096.1	1087.8	1075.0	1064.1	1056.2	1041.6	1035.5	1032.4	1029.8	1026.7	1023.6
7.5°	1057.7	1044.5	1026.2	1010.6	995.7	977.8	967.5	961.3	955.0	948.0	941.9
10°	1030.3	1011.8	992.5	970.4	952.9	936.6	922.1	912.5	903.7	895.4	889.2
12.5°	1001.4	980.2	956.2	926.2	906.8	883.6	881.3	864.3	850.6	845.4	838.2
15°	955.5	925.7	895.4	859.7	844.3	823.2	810.0	796.9	785.0	776.6	774.5
17.5°	903.4	864.7	834.6	809.0	783.8	762.2	750.0	739.4	729.7	718.5	717.0
20°	863.7	830.3	797.3	774.9	749.0	726.9	712.0	701.5	693.1	686.6	680.8
22.5°	826.0	789.5	759.3	734.8	709.2	691.5	679.7	669.5	662.5	655.2	649.9
25°	765.7	737.1	704.1	676.4	655.3	643.9	634.2	625.4	621.0	616.2	610.1
27.5°	712.8	681.1	650.2	628.8	610.3	600.1	593.2	587.3	583.2	580.3	576.9
30°	675.5	643.4	619.3	598.2	582.8	572.7	568.3	564.8	560.0	558.2	556.5
32.5°	639.7	610.8	590.1	571.8	557.2	550.5	546.5	543.4	539.6	537.8	534.3
35°	588.9	564.8	544.6	534.4	522.6	516.9	513.8	509.4	505.9	504.1	503.7
37.5°	541.2	520.2	507.0	494.0	489.0	485.4	481.2	478.2	477.2	476.9	476.5
40°	510.3	493.2	481.3	470.7	468.6	463.2	459.8	457.1	457.1	457.5	457.1
42.5°	482.2	466.7	456.3	447.2	444.6	441.4	437.9	437.7	438.5	440.0	438.5
45°	439.5	428.5	421.0	416.6	411.8	408.7	408.3	409.7	410.1	410.5	411.8
47.5°	400.3	393.0	386.2	381.4	379.3	378.8	378.2	380.6	382.6	383.4	385.5
50°	377.1	368.8	363.1	360.0	358.2	357.3	358.2	360.8	362.6	364.8	366.1
52.5°	351.1	345.2	341.2	338.9	338.2	338.7	338.9	341.9	344.7	345.4	346.1
55°	315.1	310.7	309.9	305.9	307.6	307.2	309.4	311.2	313.8	316.4	316.9
57.5°	279.3	275.8	273.4	273.7	274.2	276.2	278.0	281.1	284.0	286.7	287.0
60°	255.4	253.6	252.3	252.3	253.1	255.8	258.0	261.1	262.9	264.6	265.9
62.5°	233.6	231.8	230.5	231.2	233.5	235.1	237.6	239.3	241.0	242.8	243.4
65°	199.1	198.2	199.6	200.4	200.9	203.0	206.1	207.4	209.2	210.1	213.2
67.5°	167.4	167.6	167.4	168.6	171.2	171.7	174.6	177.6	178.0	179.7	181.7
70°	145.9	146.8	147.7	148.5	150.8	151.6	153.9	155.2	156.9	158.3	159.5
72.5°	126.2	126.4	127.3	127.1	129.0	130.9	132.8	134.1	135.8	137.5	138.8
75°	97.1	97.1	98.0	98.4	100.7	102.9	102.4	103.3	105.0	106.8	107.7
77.5°	70.9	70.0	70.9	71.4	72.1	74.0	74.3	75.5	77.5	76.9	77.9
80°	54.1	52.8	54.1	54.5	54.5	56.7	56.7	57.6	58.9	57.6	58.9
82.5°	38.6	38.0	38.9	39.0	39.7	39.8	40.6	40.7	42.0	41.4	42.0
85°	19.4	18.9	19.4	18.9	19.4	19.8	19.8	19.4	19.4	20.2	18.9
87.5°	6.5	6.4	6.1	6.2	5.9	5.7	5.4	5.4	5.5	4.9	4.9
90°	3.0	3.6	4.0	4.6	5.1	5.6	5.9	6.2	6.5	6.8	7.1
92.5°	5.3	5.5	5.7	5.9	6.2	6.5	6.6	6.8	7.0	7.1	7.2
95°	9.9	9.1	9.6	10.0	10.4	10.8	11.2	11.5	11.8	12.1	12.2
97.5°	12.9	10.5	11.5	12.5	13.5	14.6	14.8	15.1	15.2	15.5	15.7
100°	15.4	11.6	12.7	13.8	14.8	15.8	16.4	16.9	17.4	17.8	18.2
102.5°	56.8	51.5	42.7	33.9	25.1	16.3	17.0	17.6	18.3	18.9	19.3
105°	92.0	84.6	67.7	50.8	33.8	17.0	17.7	18.3	19.0	19.7	20.1
107.5°	114.2	104.8	84.6	64.3	44.0	23.8	23.1	22.4	21.7	21.0	20.8
110°	128.5	120.2	102.4	84.5	66.6	48.7	42.5	36.3	30.1	23.9	21.0



TEST NUMBER: P331330-935

CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	142.2	140.5	136.1	131.7	127.3	122.9	100.3	77.7	55.2	32.6	21.4
115°	164.3	165.6	167.1	168.7	170.2	171.8	143.1	114.5	85.8	57.2	40.6
117.5°	184.9	186.0	187.1	188.1	189.2	190.3	183.3	176.4	169.4	162.6	151.8
120°	198.5	199.6	200.7	201.8	202.9	204.1	204.8	205.5	206.3	207.0	203.2
122.5°	211.3	212.3	213.5	214.7	216.0	217.2	217.7	218.1	218.5	219.0	218.3
125°	229.5	230.6	231.7	232.9	234.0	235.2	235.7	236.1	236.5	236.9	237.3
127.5°	247.1	248.0	248.8	249.8	250.6	251.5	252.1	252.8	253.4	254.0	254.3
130°	258.4	259.2	259.9	260.6	261.3	262.0	262.6	263.3	264.0	264.7	265.0
132.5°	269.0	269.7	270.4	271.0	271.7	272.4	273.0	273.6	274.1	274.7	275.0
135°	284.0	284.8	285.3	285.9	286.5	287.1	287.7	288.3	288.9	289.5	289.7
137.5°	297.5	298.2	298.8	299.4	300.1	300.7	301.3	301.9	302.5	303.1	303.2
140°	306.3	306.9	307.5	308.2	308.9	309.5	310.1	310.6	311.3	311.8	311.9
142.5°	314.1	314.7	315.5	316.2	317.0	317.8	318.3	318.8	319.3	319.9	319.9
145°	324.6	325.1	326.1	327.3	328.3	329.3	329.8	330.2	330.6	331.1	331.1
147.5°	334.9	335.3	336.3	337.4	338.5	339.5	339.8	340.1	340.4	340.8	340.8
150°	341.2	341.6	342.5	343.5	344.5	345.5	345.9	346.2	346.6	347.0	347.0
152.5°	347.1	347.2	348.2	349.1	350.1	351.0	351.4	351.8	352.1	352.5	352.5
155°	355.5	355.6	356.4	357.1	357.8	358.5	359.0	359.3	359.6	360.1	360.0
157.5°	362.7	362.7	363.3	363.8	364.3	364.8	365.2	365.7	366.1	366.4	366.4
160°	367.1	367.1	367.5	367.8	368.2	368.6	368.9	369.4	369.7	370.1	370.1
162.5°	370.7	370.7	370.9	371.3	371.6	372.0	372.4	372.7	373.2	373.6	373.6
165°	375.5	375.4	375.6	375.7	375.9	376.1	376.5	376.9	377.4	377.8	377.8
167.5°	379.0	378.9	379.1	379.3	379.4	379.6	380.0	380.5	380.9	381.3	381.3
170°	381.0	380.9	381.0	381.2	381.3	381.4	381.9	382.3	382.7	383.1	383.1
172.5°	382.4	382.2	382.4	382.5	382.6	382.7	383.1	383.6	384.0	384.4	384.4
175°	383.8	383.7	383.8	383.9	384.1	384.2	384.6	385.0	385.5	385.9	385.8
177.5°	384.4	384.4	384.4	384.4	384.4	384.5	384.9	385.2	385.6	385.9	385.8
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331330-935

CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1096.9	1096.1	1096.1	1093.0	1096.1	1096.1	1096.9	1100.4	1101.5	1102.2	1100.8
5°	1017.5	1016.2	1014.0	1016.2	1014.0	1016.2	1017.5	1023.6	1026.7	1029.8	1032.4
7.5°	939.0	933.8	933.0	927.7	933.0	933.8	939.0	941.9	948.0	955.0	961.3
10°	881.7	878.1	877.7	869.4	877.7	878.1	881.7	889.2	895.4	903.7	912.5
12.5°	838.1	829.7	831.3	826.5	831.3	829.7	838.1	838.2	845.4	850.6	864.3
15°	762.6	762.6	760.8	753.4	760.8	762.6	762.6	774.5	776.6	785.0	796.9
17.5°	708.3	707.5	703.3	705.3	703.3	707.5	708.3	717.0	718.5	729.7	739.4
20°	676.0	673.4	668.0	668.0	668.0	673.4	676.0	680.8	686.6	693.1	701.5
22.5°	645.4	645.2	639.6	641.4	639.6	645.2	645.4	649.9	655.2	662.5	669.5
25°	609.6	606.1	603.5	604.8	603.5	606.1	609.6	610.1	616.2	621.0	625.4
27.5°	575.7	573.8	573.6	570.0	573.6	573.8	575.7	576.9	580.3	583.2	587.3
30°	556.0	551.6	552.5	550.3	552.5	551.6	556.0	556.5	558.2	560.0	564.8
32.5°	533.5	531.9	531.1	529.2	531.1	531.9	533.5	534.3	537.8	539.6	543.4
35°	502.8	503.3	501.1	502.0	501.1	503.3	502.8	503.7	504.1	505.9	509.4
37.5°	476.0	477.4	476.4	476.6	476.4	477.4	476.0	476.5	476.9	477.2	478.2
40°	458.4	458.4	458.4	459.8	458.4	458.4	458.4	457.1	457.5	457.1	457.1
42.5°	441.5	440.8	440.1	440.1	440.1	440.8	441.5	438.5	440.0	438.5	437.7
45°	412.7	414.1	414.5	412.2	414.5	414.1	412.7	411.8	410.5	410.1	409.7
47.5°	386.6	386.8	386.6	388.6	386.6	386.8	386.6	385.5	383.4	382.6	380.6
50°	368.3	367.5	368.3	367.5	368.3	367.5	368.3	366.1	364.8	362.6	360.8
52.5°	349.0	349.1	348.6	348.4	348.6	349.1	349.0	346.1	345.4	344.7	341.9
55°	318.7	319.5	319.1	319.1	319.1	319.5	318.7	316.9	316.4	313.8	311.2
57.5°	287.3	288.1	288.7	286.7	288.7	288.1	287.3	287.0	286.7	284.0	281.1
60°	265.4	267.7	267.3	266.4	267.3	267.7	265.4	265.9	264.6	262.9	261.1
62.5°	245.5	246.2	246.2	246.0	246.2	246.2	245.5	243.4	242.8	241.0	239.3
65°	214.5	215.3	214.0	215.3	214.0	215.3	214.5	213.2	210.1	209.2	207.4
67.5°	181.2	181.4	182.4	183.0	182.4	181.4	181.2	181.7	179.7	178.0	177.6
70°	160.4	160.0	161.3	162.6	161.3	160.0	160.4	159.5	158.3	156.9	155.2
72.5°	138.6	139.6	139.1	140.1	139.1	139.6	138.6	138.8	137.5	135.8	134.1
75°	106.8	108.1	107.7	109.0	107.7	108.1	106.8	107.7	106.8	105.0	103.3
77.5°	77.1	77.3	77.1	77.9	77.1	77.3	77.1	77.9	76.9	77.5	75.5
80°	58.9	58.0	57.2	58.9	57.2	58.0	58.9	58.9	57.6	58.9	57.6
82.5°	41.0	41.5	40.6	40.6	40.6	41.5	41.0	42.0	41.4	42.0	40.7
85°	18.9	18.4	17.6	17.6	17.6	18.4	18.9	18.9	20.2	19.4	19.4
87.5°	4.9	4.6	4.6	4.3	4.6	4.6	4.9	4.9	4.9	5.5	5.4
90°	7.1	7.2	7.4	7.5	7.4	7.2	7.1	7.1	6.8	6.5	6.2
92.5°	7.3	7.4	7.4	7.5	7.4	7.4	7.3	7.2	7.1	7.0	6.8
95°	12.1	12.1	12.1	12.0	12.1	12.1	12.1	12.2	12.1	11.8	11.5
97.5°	15.8	15.8	15.9	16.0	15.9	15.8	15.8	15.7	15.5	15.2	15.1
100°	18.3	18.4	18.5	18.7	18.5	18.4	18.3	18.2	17.8	17.4	16.9
102.5°	19.5	19.6	19.8	20.0	19.8	19.6	19.5	19.3	18.9	18.3	17.6
105°	20.4	20.7	20.9	21.2	20.9	20.7	20.4	20.1	19.7	19.0	18.3
107.5°	21.0	21.3	21.5	21.8	21.5	21.3	21.0	20.8	21.0	21.7	22.4
110°	21.3	21.5	21.8	22.0	21.8	21.5	21.3	21.0	23.9	30.1	36.3



TEST NUMBER: P331330-935

CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	21.6	21.8	22.0	22.2	22.0	21.8	21.6	21.4	32.6	55.2	77.7
115°	36.2	31.8	27.3	22.8	27.3	31.8	36.2	40.6	57.2	85.8	114.5
117.5°	137.2	122.5	107.9	93.2	107.9	122.5	137.2	151.8	162.6	169.4	176.4
120°	194.8	186.5	178.1	169.8	178.1	186.5	194.8	203.2	207.0	206.3	205.5
122.5°	216.8	215.2	213.5	211.9	213.5	215.2	216.8	218.3	219.0	218.5	218.1
125°	237.5	237.6	237.8	238.0	237.8	237.6	237.5	237.3	236.9	236.5	236.1
127.5°	254.4	254.4	254.4	254.5	254.4	254.4	254.4	254.3	254.0	253.4	252.8
130°	264.9	264.8	264.8	264.8	264.8	264.8	264.9	265.0	264.7	264.0	263.3
132.5°	274.9	274.9	274.8	274.7	274.8	274.9	274.9	275.0	274.7	274.1	273.6
135°	289.6	289.5	289.4	289.2	289.4	289.5	289.6	289.7	289.5	288.9	288.3
137.5°	303.1	302.9	302.6	302.5	302.6	302.9	303.1	303.2	303.1	302.5	301.9
140°	311.6	311.3	311.0	310.6	311.0	311.3	311.6	311.9	311.8	311.3	310.6
142.5°	319.6	319.3	319.0	318.7	319.0	319.3	319.6	319.9	319.9	319.3	318.8
145°	330.8	330.5	330.2	329.8	330.2	330.5	330.8	331.1	331.1	330.6	330.2
147.5°	340.5	340.3	340.0	339.8	340.0	340.3	340.5	340.8	340.8	340.4	340.1
150°	346.7	346.4	346.0	345.8	346.0	346.4	346.7	347.0	347.0	346.6	346.2
152.5°	352.1	351.7	351.3	350.9	351.3	351.7	352.1	352.5	352.5	352.1	351.8
155°	359.5	359.0	358.5	358.0	358.5	359.0	359.5	360.0	360.1	359.6	359.3
157.5°	365.9	365.5	365.0	364.5	365.0	365.5	365.9	366.4	366.4	366.1	365.7
160°	369.6	369.2	368.8	368.3	368.8	369.2	369.6	370.1	370.1	369.7	369.4
162.5°	373.0	372.5	372.0	371.4	372.0	372.5	373.0	373.6	373.6	373.2	372.7
165°	377.4	376.9	376.5	376.1	376.5	376.9	377.4	377.8	377.8	377.4	376.9
167.5°	380.7	380.1	379.6	379.0	379.6	380.1	380.7	381.3	381.3	380.9	380.5
170°	382.5	381.9	381.4	380.8	381.4	381.9	382.5	383.1	383.1	382.7	382.3
172.5°	383.8	383.3	382.7	382.2	382.7	383.3	383.8	384.4	384.4	384.0	383.6
175°	385.2	384.6	383.9	383.3	383.9	384.6	385.2	385.8	385.9	385.5	385.0
177.5°	385.4	385.0	384.5	384.1	384.5	385.0	385.4	385.8	385.9	385.6	385.2
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331330-935  
 CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1099.0	1102.9	1108.8	1115.2	1119.0	1126.4	1128.5	1132.0	1135.2	1142.6	1150.3
5°	1035.5	1041.6	1056.2	1064.1	1075.0	1087.8	1096.1	1105.0	1114.7	1131.4	1146.7
7.5°	967.5	977.8	995.7	1010.6	1026.2	1044.5	1057.7	1075.0	1089.5	1113.0	1135.6
10°	922.1	936.6	952.9	970.4	992.5	1011.8	1030.3	1052.2	1069.8	1097.9	1124.3
12.5°	881.3	883.6	906.8	926.2	956.2	980.2	1001.4	1029.8	1047.0	1080.4	1108.1
15°	810.0	823.2	844.3	859.7	895.4	925.7	955.5	985.0	1004.8	1046.0	1082.5
17.5°	750.0	762.2	783.8	809.0	834.6	864.7	903.4	934.4	961.3	1008.6	1051.7
20°	712.0	726.9	749.0	774.9	797.3	830.3	863.7	899.2	928.2	981.5	1032.0
22.5°	679.7	691.5	709.2	734.8	759.3	789.5	826.0	864.8	895.3	952.6	1003.8
25°	634.2	643.9	655.3	676.4	704.1	737.1	765.7	808.3	852.6	906.3	968.3
27.5°	593.2	600.1	610.3	628.8	650.2	681.1	712.8	753.3	797.9	856.1	921.5
30°	568.3	572.7	582.8	598.2	619.3	643.4	675.5	714.2	759.9	818.8	883.9
32.5°	546.5	550.5	557.2	571.8	590.1	610.8	639.7	678.4	721.9	779.8	851.9
35°	513.8	516.9	522.6	534.4	544.6	564.8	588.9	624.1	665.0	720.4	795.1
37.5°	481.2	485.4	489.0	494.0	507.0	520.2	541.2	570.9	611.1	666.9	738.1
40°	459.8	463.2	468.6	470.7	481.3	493.2	510.3	537.5	578.0	629.0	698.4
42.5°	437.9	441.4	444.6	447.2	456.3	466.7	482.2	505.6	541.4	591.0	659.7
45°	408.3	408.7	411.8	416.6	421.0	428.5	439.5	459.8	487.4	534.0	596.4
47.5°	378.2	378.8	379.3	381.4	386.2	393.0	400.3	416.7	441.5	478.7	539.5
50°	358.2	357.3	358.2	360.0	363.1	368.8	377.1	389.0	409.2	443.9	499.7
52.5°	338.9	338.7	338.2	338.9	341.2	345.2	351.1	361.2	379.3	411.2	460.4
55°	309.4	307.2	307.6	305.9	309.9	310.7	315.1	323.5	339.3	361.3	407.4
57.5°	278.0	276.2	274.2	273.7	273.4	275.8	279.3	285.9	298.0	317.3	354.7
60°	258.0	255.8	253.1	252.3	252.3	253.6	255.4	260.2	271.6	288.8	319.5
62.5°	237.6	235.1	233.5	231.2	230.5	231.8	233.6	237.0	245.2	261.3	287.9
65°	206.1	203.0	200.9	200.4	199.6	198.2	199.1	202.6	209.2	222.0	243.1
67.5°	174.6	171.7	171.2	168.6	167.4	167.6	167.4	170.4	174.4	185.3	201.0
70°	153.9	151.6	150.8	148.5	147.7	146.8	145.9	148.5	152.5	161.8	175.4
72.5°	132.8	130.9	129.0	127.1	127.3	126.4	126.2	127.8	131.0	139.6	150.1
75°	102.4	102.9	100.7	98.4	98.0	97.1	97.1	98.4	99.8	106.3	114.7
77.5°	74.3	74.0	72.1	71.4	70.9	70.0	70.9	71.8	72.5	76.9	83.1
80°	56.7	56.7	54.5	54.5	54.1	52.8	54.1	53.2	54.9	59.3	63.7
82.5°	40.6	39.8	39.7	39.0	38.9	38.0	38.6	39.4	40.2	43.1	45.8
85°	19.8	19.8	19.4	18.9	19.4	18.9	19.4	19.8	20.2	21.5	23.8
87.5°	5.4	5.7	5.9	6.2	6.1	6.4	6.5	6.8	7.3	7.6	7.7
90°	5.9	5.6	5.1	4.6	4.0	3.6	3.0	2.3	1.6	0.9	0.3
92.5°	6.6	6.5	6.2	5.9	5.7	5.5	5.3	5.4	5.5	5.6	5.6
95°	11.2	10.8	10.4	10.0	9.6	9.1	9.9	12.0	14.0	16.0	18.1
97.5°	14.8	14.6	13.5	12.5	11.5	10.5	12.9	18.7	24.4	30.1	35.9
100°	16.4	15.8	14.8	13.8	12.7	11.6	15.4	23.8	32.3	40.8	49.2
102.5°	17.0	16.3	25.1	33.9	42.7	51.5	56.8	58.6	60.4	62.2	64.0
105°	17.7	17.0	33.8	50.8	67.7	84.6	92.0	90.2	88.3	86.4	84.6
107.5°	23.1	23.8	44.0	64.3	84.6	104.8	114.2	112.7	111.2	109.7	108.1
110°	42.5	48.7	66.6	84.5	102.4	120.2	128.5	127.3	126.0	124.6	123.3



TEST NUMBER: P331330-935

CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	100.3	122.9	127.3	131.7	136.1	140.5	142.2	141.0	139.9	138.7	137.6
115°	143.1	171.8	170.2	168.7	167.1	165.6	164.3	163.2	162.2	161.1	160.1
117.5°	183.3	190.3	189.2	188.1	187.1	186.0	184.9	183.7	182.5	181.3	180.2
120°	204.8	204.1	202.9	201.8	200.7	199.6	198.5	197.7	196.7	195.8	194.8
122.5°	217.7	217.2	216.0	214.7	213.5	212.3	211.3	210.3	209.3	208.4	207.3
125°	235.7	235.2	234.0	232.9	231.7	230.6	229.5	228.8	227.9	227.1	226.4
127.5°	252.1	251.5	250.6	249.8	248.8	248.0	247.1	246.2	245.3	244.4	243.5
130°	262.6	262.0	261.3	260.6	259.9	259.2	258.4	257.4	256.4	255.5	254.4
132.5°	273.0	272.4	271.7	271.0	270.4	269.7	269.0	268.1	267.3	266.4	265.6
135°	287.7	287.1	286.5	285.9	285.3	284.8	284.0	283.0	282.1	281.0	280.1
137.5°	301.3	300.7	300.1	299.4	298.8	298.2	297.5	296.8	296.1	295.4	294.7
140°	310.1	309.5	308.9	308.2	307.5	306.9	306.3	305.7	305.2	304.8	304.3
142.5°	318.3	317.8	317.0	316.2	315.5	314.7	314.1	313.7	313.1	312.7	312.3
145°	329.8	329.3	328.3	327.3	326.1	325.1	324.6	324.7	324.8	324.9	324.9
147.5°	339.8	339.5	338.5	337.4	336.3	335.3	334.9	335.1	335.4	335.6	335.9
150°	345.9	345.5	344.5	343.5	342.5	341.6	341.2	341.6	342.1	342.5	342.9
152.5°	351.4	351.0	350.1	349.1	348.2	347.2	347.1	347.5	348.0	348.5	349.0
155°	359.0	358.5	357.8	357.1	356.4	355.6	355.5	356.0	356.6	357.1	357.7
157.5°	365.2	364.8	364.3	363.8	363.3	362.7	362.7	363.2	363.6	364.1	364.5
160°	368.9	368.6	368.2	367.8	367.5	367.1	367.1	367.5	367.8	368.2	368.6
162.5°	372.4	372.0	371.6	371.3	370.9	370.7	370.7	371.0	371.4	371.8	372.1
165°	376.5	376.1	375.9	375.7	375.6	375.4	375.5	375.8	376.2	376.6	376.9
167.5°	380.0	379.6	379.4	379.3	379.1	378.9	379.0	379.4	379.8	380.1	380.5
170°	381.9	381.4	381.3	381.2	381.0	380.9	381.0	381.4	381.8	382.1	382.5
172.5°	383.1	382.7	382.6	382.5	382.4	382.2	382.4	382.7	383.1	383.5	383.8
175°	384.6	384.2	384.1	383.9	383.8	383.7	383.8	384.3	384.7	385.1	385.6
177.5°	384.9	384.5	384.4	384.4	384.4	384.4	384.4	384.8	385.1	385.5	385.8
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331330-935  
 CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1149.6	1151.4	1157.0	1162.6	1169.0	1170.7	1173.5	1171.0	1170.4	1177.1	1182.0
5°	1152.9	1160.8	1176.2	1190.2	1202.1	1210.5	1219.3	1222.8	1229.3	1238.5	1250.0
7.5°	1149.2	1164.6	1188.8	1209.2	1231.6	1247.7	1260.2	1270.9	1283.9	1301.4	1320.5
10°	1145.0	1165.6	1195.1	1220.1	1247.3	1268.0	1285.2	1301.8	1321.2	1345.4	1370.5
12.5°	1137.2	1161.7	1198.6	1228.2	1263.2	1283.5	1306.7	1342.6	1363.4	1397.1	1432.4
15°	1121.7	1148.9	1200.3	1236.8	1276.3	1315.1	1357.7	1392.0	1426.2	1446.0	1495.7
17.5°	1098.5	1138.6	1195.5	1238.0	1288.3	1349.3	1397.1	1436.0	1475.6	1507.7	1532.6
20°	1080.0	1123.4	1188.4	1239.5	1299.2	1364.7	1419.7	1459.2	1493.5	1520.4	1535.7
22.5°	1056.4	1111.1	1174.4	1234.2	1310.5	1375.3	1433.0	1464.1	1492.8	1505.9	1511.8
25°	1019.3	1085.2	1156.8	1229.8	1316.0	1384.5	1437.3	1456.1	1464.5	1451.7	1430.6
27.5°	979.3	1052.7	1136.5	1221.5	1312.6	1378.5	1416.3	1413.3	1399.2	1358.0	1325.0
30°	949.3	1030.3	1120.3	1213.1	1304.5	1368.6	1390.7	1368.6	1336.6	1290.5	1243.5
32.5°	918.1	1001.8	1103.1	1201.1	1289.8	1346.2	1350.9	1313.1	1263.4	1211.0	1152.4
35°	870.7	961.2	1070.7	1174.4	1258.4	1294.0	1272.9	1206.1	1147.2	1075.6	995.5
37.5°	817.2	917.1	1026.9	1135.3	1211.3	1220.6	1168.3	1097.9	1014.9	930.7	836.5
40°	777.1	883.0	996.0	1105.4	1172.7	1163.0	1096.1	1018.8	919.9	817.1	729.6
42.5°	741.2	847.1	962.2	1069.5	1123.4	1096.9	1018.8	923.9	817.6	720.7	640.7
45°	679.1	788.1	905.9	1009.6	1040.3	992.5	889.2	783.7	679.1	598.2	534.9
47.5°	618.8	726.5	843.2	934.4	945.2	880.8	767.9	659.4	569.5	503.6	458.9
50°	574.5	682.6	798.1	879.5	876.0	798.1	682.2	578.9	503.7	450.5	420.6
52.5°	534.8	636.9	747.9	821.8	803.2	718.3	607.6	515.9	454.1	412.5	385.5
55°	472.9	567.4	672.9	732.3	697.9	603.9	510.3	436.4	390.7	359.6	338.5
57.5°	411.6	500.2	590.5	627.1	589.2	502.3	424.2	370.7	336.3	313.2	299.5
60°	373.6	451.0	531.4	563.0	517.7	440.4	378.8	331.0	303.2	284.4	272.1
62.5°	335.6	404.9	480.8	498.0	456.6	391.2	336.7	296.9	274.1	257.3	245.7
65°	284.0	340.6	398.2	409.7	371.4	320.9	277.8	251.8	231.6	219.3	210.1
67.5°	232.9	278.4	319.2	328.4	294.9	259.8	228.8	206.1	192.4	182.2	174.4
70°	202.6	238.7	272.1	279.6	252.7	221.5	197.8	179.8	167.5	158.7	151.2
72.5°	170.7	200.7	228.4	233.5	211.5	187.8	168.2	154.1	143.2	137.6	130.4
75°	130.5	148.1	169.6	171.0	156.4	142.0	127.0	117.8	112.1	105.0	101.5
77.5°	92.1	105.9	118.2	120.6	112.0	102.1	93.8	86.5	81.6	78.4	75.2
80°	70.3	81.3	86.6	89.6	83.5	76.5	71.6	66.8	63.7	61.6	59.3
82.5°	50.3	57.1	62.0	64.3	61.0	56.8	51.9	49.2	46.8	45.0	44.3
85°	25.5	28.6	31.7	32.5	31.7	29.9	27.2	27.2	25.9	25.5	25.5
87.5°	9.0	10.5	10.7	11.9	11.3	11.4	11.5	11.2	10.9	10.7	10.4
90°	0.9	1.6	2.3	3.0	3.6	4.0	4.6	5.1	5.6	5.9	6.2
92.5°	5.6	5.5	5.4	5.3	5.5	5.7	5.9	6.2	6.5	6.6	6.8
95°	16.0	14.0	12.0	9.9	9.1	9.6	10.0	10.4	10.8	11.2	11.5
97.5°	30.1	24.4	18.7	12.9	10.5	11.5	12.5	13.5	14.6	14.8	15.1
100°	40.8	32.3	23.8	15.4	11.6	12.7	13.8	14.8	15.8	16.4	16.9
102.5°	62.2	60.4	58.6	56.8	51.5	42.7	33.9	25.1	16.3	17.0	17.6
105°	86.4	88.3	90.2	92.0	84.6	67.7	50.8	33.8	17.0	17.7	18.3
107.5°	109.7	111.2	112.7	114.2	104.8	84.6	64.3	44.0	23.8	23.1	22.4
110°	124.6	126.0	127.3	128.5	120.2	102.4	84.5	66.6	48.7	42.5	36.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	138.7	139.9	141.0	142.2	140.5	136.1	131.7	127.3	122.9	100.3	77.7
115°	161.1	162.2	163.2	164.3	165.6	167.1	168.7	170.2	171.8	143.1	114.5
117.5°	181.3	182.5	183.7	184.9	186.0	187.1	188.1	189.2	190.3	183.3	176.4
120°	195.8	196.7	197.7	198.5	199.6	200.7	201.8	202.9	204.1	204.8	205.5
122.5°	208.4	209.3	210.3	211.3	212.3	213.5	214.7	216.0	217.2	217.7	218.1
125°	227.1	227.9	228.8	229.5	230.6	231.7	232.9	234.0	235.2	235.7	236.1
127.5°	244.4	245.3	246.2	247.1	248.0	248.8	249.8	250.6	251.5	252.1	252.8
130°	255.5	256.4	257.4	258.4	259.2	259.9	260.6	261.3	262.0	262.6	263.3
132.5°	266.4	267.3	268.1	269.0	269.7	270.4	271.0	271.7	272.4	273.0	273.6
135°	281.0	282.1	283.0	284.0	284.8	285.3	285.9	286.5	287.1	287.7	288.3
137.5°	295.4	296.1	296.8	297.5	298.2	298.8	299.4	300.1	300.7	301.3	301.9
140°	304.8	305.2	305.7	306.3	306.9	307.5	308.2	308.9	309.5	310.1	310.6
142.5°	312.7	313.1	313.7	314.1	314.7	315.5	316.2	317.0	317.8	318.3	318.8
145°	324.9	324.8	324.7	324.6	325.1	326.1	327.3	328.3	329.3	329.8	330.2
147.5°	335.6	335.4	335.1	334.9	335.3	336.3	337.4	338.5	339.5	339.8	340.1
150°	342.5	342.1	341.6	341.2	341.6	342.5	343.5	344.5	345.5	345.9	346.2
152.5°	348.5	348.0	347.5	347.1	347.2	348.2	349.1	350.1	351.0	351.4	351.8
155°	357.1	356.6	356.0	355.5	355.6	356.4	357.1	357.8	358.5	359.0	359.3
157.5°	364.1	363.6	363.2	362.7	362.7	363.3	363.8	364.3	364.8	365.2	365.7
160°	368.2	367.8	367.5	367.1	367.1	367.5	367.8	368.2	368.6	368.9	369.4
162.5°	371.8	371.4	371.0	370.7	370.7	370.9	371.3	371.6	372.0	372.4	372.7
165°	376.6	376.2	375.8	375.5	375.4	375.6	375.7	375.9	376.1	376.5	376.9
167.5°	380.1	379.8	379.4	379.0	378.9	379.1	379.3	379.4	379.6	380.0	380.5
170°	382.1	381.8	381.4	381.0	380.9	381.0	381.2	381.3	381.4	381.9	382.3
172.5°	383.5	383.1	382.7	382.4	382.2	382.4	382.5	382.6	382.7	383.1	383.6
175°	385.1	384.7	384.3	383.8	383.7	383.8	383.9	384.1	384.2	384.6	385.0
177.5°	385.5	385.1	384.8	384.4	384.4	384.4	384.4	384.4	384.5	384.9	385.2
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1186.2	1191.1	1191.1	1191.8	1197.5	1196.7	1196.4
5°	1262.3	1269.8	1270.7	1278.6	1283.8	1282.1	1277.3
7.5°	1334.1	1348.1	1358.6	1364.4	1371.4	1375.7	1373.8
10°	1391.1	1411.4	1423.7	1432.0	1442.1	1449.6	1446.9
12.5°	1442.8	1466.9	1483.8	1498.1	1499.4	1509.0	1502.4
15°	1523.4	1548.9	1551.5	1562.1	1570.5	1569.5	1569.9
17.5°	1550.1	1558.2	1559.9	1560.1	1560.2	1557.1	1550.5
20°	1540.5	1537.5	1530.0	1524.3	1514.2	1512.9	1504.1
22.5°	1495.6	1485.7	1467.1	1454.7	1438.9	1434.8	1432.4
25°	1407.0	1385.3	1355.5	1326.9	1319.1	1303.6	1308.0
27.5°	1285.4	1251.8	1219.4	1196.2	1175.2	1152.2	1158.7
30°	1199.9	1162.1	1116.4	1081.2	1058.9	1036.8	1032.9
32.5°	1097.9	1042.6	991.5	960.6	926.3	912.4	897.2
35°	922.1	868.1	817.5	774.0	749.0	729.6	712.0
37.5°	764.0	701.7	661.0	625.7	607.6	596.5	599.3
40°	665.9	611.4	581.5	554.7	538.0	530.0	531.8
42.5°	586.4	545.6	521.0	502.7	490.9	486.5	485.4
45°	496.2	473.4	453.1	442.6	436.9	432.0	429.0
47.5°	434.7	416.0	404.7	398.4	393.4	388.5	388.4
50°	397.8	385.5	377.5	370.9	367.0	363.5	366.5
52.5°	369.6	358.3	350.5	344.6	343.1	339.9	339.8
55°	327.9	319.1	313.4	308.1	305.5	303.7	301.5
57.5°	289.9	281.5	276.3	272.9	267.9	266.1	265.4
60°	262.9	256.2	251.0	246.6	244.4	240.8	240.8
62.5°	237.9	231.3	226.4	223.0	219.4	218.0	218.3
65°	201.7	196.5	191.7	188.1	187.3	184.6	185.5
67.5°	168.5	165.0	159.9	158.0	156.3	154.9	153.9
70°	146.4	142.8	140.2	137.6	136.2	136.2	136.2
72.5°	127.7	123.5	121.9	118.6	119.3	118.0	116.6
75°	98.9	96.3	95.0	93.6	91.4	91.4	91.4
77.5°	72.8	72.0	70.4	69.0	68.4	68.0	68.2
80°	56.2	55.8	54.9	54.9	54.1	53.6	52.8
82.5°	43.2	42.1	41.6	41.2	41.1	41.0	40.8
85°	24.6	23.8	23.8	24.2	23.3	23.3	23.8
87.5°	10.8	10.8	10.5	10.6	10.9	10.6	10.7
90°	6.5	6.8	7.1	7.1	7.2	7.4	7.5
92.5°	7.0	7.1	7.2	7.3	7.4	7.4	7.5
95°	11.8	12.1	12.2	12.1	12.1	12.1	12.0
97.5°	15.2	15.5	15.7	15.8	15.8	15.9	16.0
100°	17.4	17.8	18.2	18.3	18.4	18.5	18.7
102.5°	18.3	18.9	19.3	19.5	19.6	19.8	20.0
105°	19.0	19.7	20.1	20.4	20.7	20.9	21.2
107.5°	21.7	21.0	20.8	21.0	21.3	21.5	21.8
110°	30.1	23.9	21.0	21.3	21.5	21.8	22.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	55.2	32.6	21.4	21.6	21.8	22.0	22.2
115°	85.8	57.2	40.6	36.2	31.8	27.3	22.8
117.5°	169.4	162.6	151.8	137.2	122.5	107.9	93.2
120°	206.3	207.0	203.2	194.8	186.5	178.1	169.8
122.5°	218.5	219.0	218.3	216.8	215.2	213.5	211.9
125°	236.5	236.9	237.3	237.5	237.6	237.8	238.0
127.5°	253.4	254.0	254.3	254.4	254.4	254.4	254.5
130°	264.0	264.7	265.0	264.9	264.8	264.8	264.8
132.5°	274.1	274.7	275.0	274.9	274.9	274.8	274.7
135°	288.9	289.5	289.7	289.6	289.5	289.4	289.2
137.5°	302.5	303.1	303.2	303.1	302.9	302.6	302.5
140°	311.3	311.8	311.9	311.6	311.3	311.0	310.6
142.5°	319.3	319.9	319.9	319.6	319.3	319.0	318.7
145°	330.6	331.1	331.1	330.8	330.5	330.2	329.8
147.5°	340.4	340.8	340.8	340.5	340.3	340.0	339.8
150°	346.6	347.0	347.0	346.7	346.4	346.0	345.8
152.5°	352.1	352.5	352.5	352.1	351.7	351.3	350.9
155°	359.6	360.1	360.0	359.5	359.0	358.5	358.0
157.5°	366.1	366.4	366.4	365.9	365.5	365.0	364.5
160°	369.7	370.1	370.1	369.6	369.2	368.8	368.3
162.5°	373.2	373.6	373.6	373.0	372.5	372.0	371.4
165°	377.4	377.8	377.8	377.4	376.9	376.5	376.1
167.5°	380.9	381.3	381.3	380.7	380.1	379.6	379.0
170°	382.7	383.1	383.1	382.5	381.9	381.4	380.8
172.5°	384.0	384.4	384.4	383.8	383.3	382.7	382.2
175°	385.5	385.9	385.8	385.2	384.6	383.9	383.3
177.5°	385.6	385.9	385.8	385.4	385.0	384.5	384.1
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7

(END OF REPORT)