

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: P331647-940

Luminaire Tested: **SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331647-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2797.8 lumens  
Efficiency: N/A  
Efficacy: 101.7 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: General Diffuse

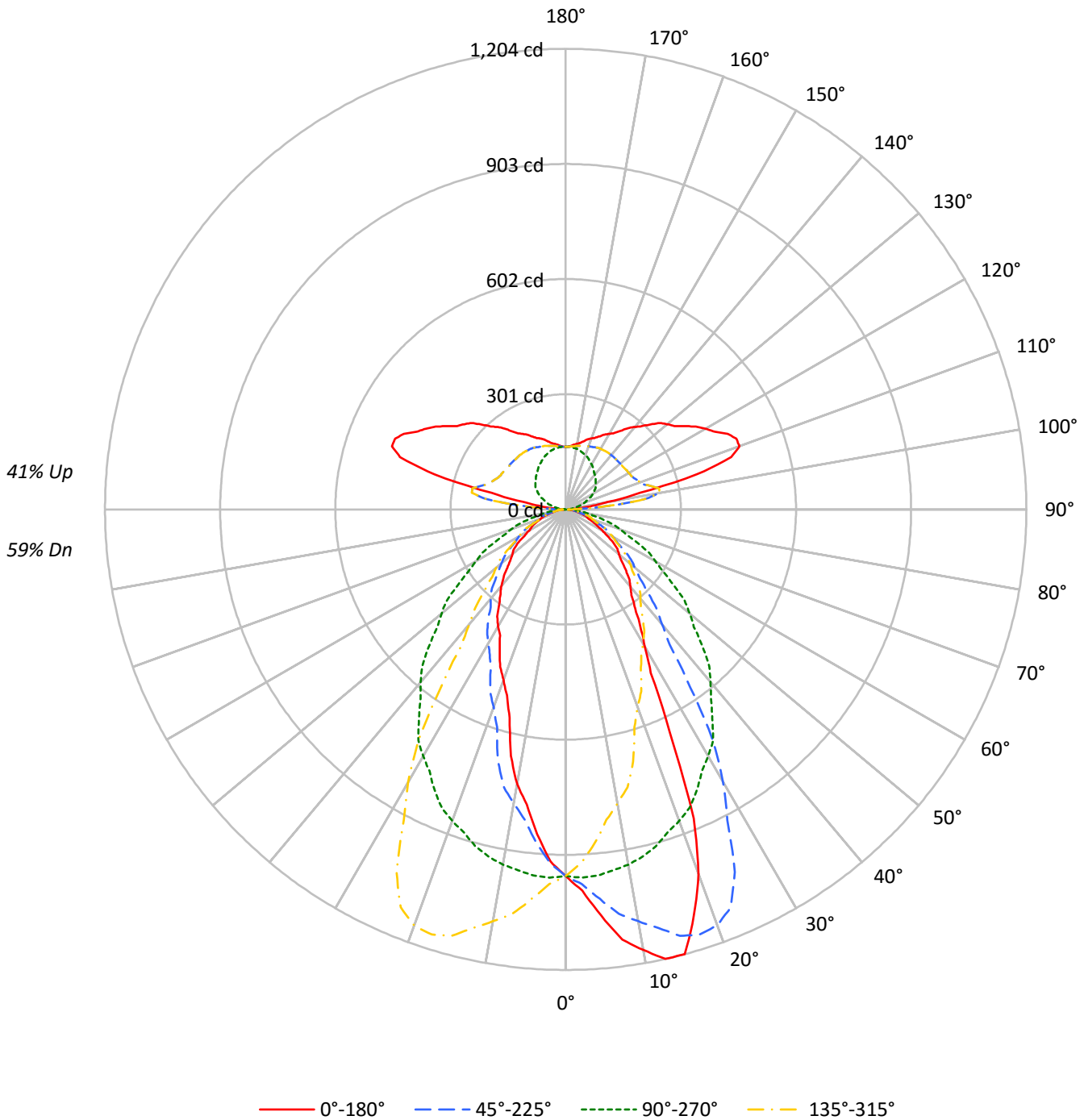
Input Watts (W): 27.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

### Luminous Intensity Polar Plot





TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	101	97	93	90	94	91	87	85	79	77	75	68	67	65	59	57	56	52
2	93	86	80	75	86	80	75	71	70	67	63	61	58	56	53	51	49	45
3	85	76	69	64	79	72	66	61	63	58	54	55	52	49	48	45	43	39
4	78	68	61	55	73	64	58	52	57	52	47	50	46	43	43	40	38	35
5	72	61	54	48	68	58	51	46	51	46	42	45	41	38	40	36	34	31
6	67	56	48	42	63	53	46	41	47	41	37	41	37	34	36	33	30	28
7	62	51	43	38	58	48	41	36	43	37	33	38	34	30	34	30	27	25
8	58	46	39	34	55	44	37	33	39	34	30	35	31	27	31	28	25	23
9	55	43	35	31	51	41	34	29	36	31	27	33	28	25	29	25	23	21
10	51	39	32	28	48	38	31	27	34	29	25	30	26	23	27	24	21	19

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

	0°	90°	180°	270°
0°	15474	15474	15474	15474
5°	17280	15571	13807	15571
10°	19174	15462	11968	15462
15°	20117	15234	9429	15234
20°	17438	14899	8158	14899
25°	11437	14439	7285	14439
30°	7700	13882	6594	13882
35°	6236	13180	5947	13180
40°	5545	12416	5503	12416
45°	5019	11520	4912	11520
50°	4567	10630	4549	10630
55°	4293	9647	4236	9647
60°	3591	8741	3549	8741
65°	3030	7939	3435	7939
70°	2799	7091	3238	7091
75°	2620	6170	2994	6170
80°	2408	5077	2659	5077
85°	2205	4020	2353	4020



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	3.2
10°-20°	253.1	9.0
20°-30°	326.2	11.7
30°-40°	310.0	11.1
40°-50°	265.6	9.5
50°-60°	202.2	7.2
60°-70°	127.8	4.6
70°-80°	63.8	2.3
80°-90°	18.1	0.6
90°-100°	65.5	2.3
100°-110°	222.3	7.9
110°-120°	236.2	8.4
120°-130°	194.4	6.9
130°-140°	156.1	5.6
140°-150°	118.0	4.2
150°-160°	82.9	3.0
160°-170°	48.8	1.7
170°-180°	15.9	0.6
0°-30°	670.2	24.0
0°-40°	980.2	35.0
0°-60°	1448.0	51.8
0°-90°	1657.7	59.3
90°-120°	524.0	18.7
90°-150°	992.5	35.5
90°-180°	1140.0	40.7
0°-180°	2797.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	958	958	958	958	958	
5°	1066	961	852	961	1066	105
15°	1204	911	564	911	1204	325
25°	642	810	409	810	642	305
35°	316	669	302	669	316	202
45°	220	504	215	504	220	170
55°	152	343	150	343	152	134
65°	79	208	90	208	79	81
75°	42	99	48	99	42	45
85°	12	22	13	22	12	13
90°	10	0	10	0	10	6
95°	36	11	36	11	36	47
105°	355	38	355	38	355	344
115°	467	68	467	68	467	458
125°	379	94	379	94	379	343
135°	314	111	314	111	314	244
145°	251	127	251	127	251	159
155°	211	144	211	144	211	98
165°	185	157	185	157	185	53
175°	167	164	167	164	167	16
180°	164	164	164	164	164	



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	997.3	998.1	998.9	997.0	997.0	995.4	991.9	989.3	981.8	980.7	980.7
5°	1066.2	1065.6	1066.9	1062.6	1056.6	1055.3	1048.9	1040.6	1032.0	1022.3	1020.3
7.5°	1134.9	1133.9	1131.2	1130.4	1125.9	1115.8	1105.6	1094.8	1080.4	1066.3	1059.3
10°	1169.5	1180.4	1173.8	1162.2	1164.5	1148.9	1140.5	1126.2	1114.2	1093.2	1088.6
12.5°	1203.5	1207.9	1205.8	1199.2	1196.2	1185.4	1174.1	1161.6	1139.5	1120.7	1104.3
15°	1203.5	1209.8	1211.5	1209.4	1211.1	1210.4	1204.4	1194.1	1174.8	1154.1	1136.2
17.5°	1114.6	1119.0	1129.9	1137.3	1146.7	1166.4	1176.1	1179.9	1177.0	1165.2	1152.5
20°	1014.9	1007.6	1038.3	1053.9	1067.3	1100.5	1129.2	1140.1	1157.8	1157.5	1154.1
22.5°	873.8	875.5	904.6	923.1	962.1	995.3	1028.0	1069.3	1103.5	1126.1	1139.2
25°	642.0	654.7	683.7	708.9	752.2	814.2	870.5	935.8	997.3	1046.0	1092.3
27.5°	482.1	483.1	506.0	529.5	555.2	605.9	676.8	754.7	842.6	915.0	998.4
30°	413.0	410.9	420.6	434.9	456.9	496.1	549.5	626.1	713.6	822.9	920.1
32.5°	363.9	364.0	371.3	381.9	400.1	426.6	463.2	525.3	608.1	715.5	829.5
35°	316.4	316.0	321.4	329.0	336.6	353.7	378.6	411.3	468.2	568.5	685.0
37.5°	282.2	283.7	286.3	291.1	299.5	309.0	324.0	345.9	386.5	445.8	543.7
40°	263.1	263.8	267.4	271.4	276.4	283.7	296.0	313.7	343.3	390.6	462.2
42.5°	245.5	246.1	248.8	252.4	256.4	263.8	273.9	289.2	313.3	350.1	409.2
45°	219.8	219.8	222.1	223.7	228.1	234.8	243.1	255.7	272.4	299.7	339.0
47.5°	195.6	195.7	197.2	200.1	202.9	208.0	216.2	226.6	238.7	259.8	293.4
50°	181.8	182.2	183.2	185.5	187.2	191.8	198.1	207.1	219.8	236.1	264.0
52.5°	170.6	170.4	171.7	172.7	173.8	177.2	181.9	189.8	201.2	215.3	238.5
55°	152.5	151.1	153.2	154.8	155.9	157.2	159.8	164.9	174.5	186.5	203.8
57.5°	129.8	129.3	130.7	132.2	135.4	139.0	141.2	144.5	149.5	158.0	175.2
60°	111.2	111.2	114.2	115.2	118.9	123.5	128.2	130.9	135.9	141.5	154.2
62.5°	94.7	95.0	96.4	97.4	99.4	105.1	111.7	117.5	122.3	127.7	136.1
65°	79.3	79.9	79.9	80.6	81.9	83.3	85.9	90.6	98.9	106.6	112.9
67.5°	67.2	67.5	67.7	68.3	68.7	70.1	71.2	73.3	75.2	82.5	90.3
70°	59.3	60.3	59.9	60.6	60.9	61.6	63.0	63.9	67.0	68.6	73.3
72.5°	51.8	52.5	52.5	52.9	53.8	53.9	54.9	55.9	57.9	59.3	61.8
75°	42.0	41.6	42.0	42.6	43.0	43.2	43.2	44.6	45.7	47.0	48.6
77.5°	32.4	32.7	32.6	32.7	32.7	33.3	33.3	33.9	34.9	35.6	36.4
80°	25.9	26.3	25.9	26.3	26.7	26.9	26.7	26.9	28.0	28.6	28.6
82.5°	20.2	20.2	20.4	20.4	20.5	20.6	21.0	21.1	21.8	21.7	21.9
85°	11.9	11.7	11.7	11.7	11.9	12.3	11.9	11.9	12.3	12.3	12.3
87.5°	6.3	6.6	6.6	6.6	6.6	6.5	6.4	6.8	6.6	7.0	6.6
90°	10.4	10.4	10.4	10.4	10.4	10.1	9.5	10.1	10.4	10.7	10.4
92.5°	17.5	17.9	17.7	18.7	19.0	21.0	23.5	27.5	34.6	40.9	40.4
95°	35.9	35.6	36.6	39.1	43.2	50.1	63.3	82.6	108.1	123.5	109.3
97.5°	70.7	73.4	77.9	85.7	100.8	123.5	157.6	192.6	221.1	210.8	158.8
100°	112.8	118.5	127.6	141.2	167.3	205.5	248.6	287.7	294.3	248.9	171.4
102.5°	198.5	206.2	217.6	240.7	269.1	309.5	341.1	349.9	321.5	250.1	166.6
105°	355.1	359.4	373.0	392.5	412.1	422.5	418.4	382.8	317.3	233.4	157.2
107.5°	453.6	459.4	462.2	463.2	460.7	445.5	412.8	359.1	289.6	215.5	152.6
110°	483.3	483.7	480.8	474.8	461.3	435.4	395.1	338.7	272.2	207.0	151.6



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	482.8	481.1	475.7	465.7	446.9	417.2	374.2	320.0	260.1	201.4	151.8
115°	467.3	464.4	456.2	441.8	419.4	386.9	345.6	297.1	245.1	195.4	153.1
117.5°	439.4	437.0	428.5	413.1	390.3	359.9	322.4	279.8	235.7	192.3	155.4
120°	421.6	418.4	409.3	394.5	372.4	343.8	310.3	271.3	230.6	190.6	156.9
122.5°	402.9	400.3	392.2	377.6	357.8	331.9	300.2	264.5	226.3	189.6	158.6
125°	379.1	376.5	368.6	356.7	338.4	314.8	287.0	254.6	220.3	187.8	161.3
127.5°	358.1	356.1	349.3	338.0	322.1	300.3	274.2	244.8	214.5	186.7	164.0
130°	346.3	343.8	337.4	326.7	311.3	290.5	265.6	238.5	210.8	186.2	166.0
132.5°	333.9	331.6	325.8	315.1	300.0	280.4	257.5	232.5	207.8	185.9	168.1
135°	314.1	312.9	307.2	296.8	283.2	265.6	244.8	224.0	203.5	185.6	170.5
137.5°	294.7	292.8	287.8	278.9	266.5	251.2	234.7	217.3	200.5	185.5	172.6
140°	281.3	279.5	274.7	266.5	256.5	242.6	228.1	212.9	198.8	185.3	173.6
142.5°	268.0	267.6	263.4	255.9	246.4	234.8	222.3	209.5	197.1	185.3	174.3
145°	250.7	249.9	246.7	241.3	233.8	224.6	214.9	204.5	194.7	184.6	175.1
147.5°	236.4	235.8	233.6	229.3	223.1	216.4	208.8	200.6	192.3	183.5	175.4
150°	227.8	227.5	225.6	221.8	217.0	211.4	204.8	197.9	190.3	182.7	175.1
152.5°	220.5	220.4	219.0	215.8	212.0	207.1	201.5	195.1	188.5	181.5	174.7
155°	210.8	211.4	210.2	207.9	204.5	201.0	196.3	191.3	185.3	179.2	173.9
157.5°	202.5	202.5	202.0	200.1	197.7	194.9	191.0	186.8	182.2	177.0	172.5
160°	197.2	197.2	196.9	195.4	193.1	190.9	187.4	184.0	179.9	175.5	171.7
162.5°	192.2	192.4	192.2	191.1	188.9	187.2	184.2	181.2	177.9	174.2	170.9
165°	184.9	185.3	185.3	184.0	182.7	181.5	179.2	177.1	174.5	171.7	169.5
167.5°	178.3	178.6	178.7	178.0	177.5	176.3	174.8	173.1	171.3	169.5	168.1
170°	174.2	174.9	175.1	174.2	173.9	173.3	172.0	171.1	169.5	168.3	167.3
172.5°	170.9	171.3	171.7	171.2	170.9	170.5	169.5	168.8	167.7	166.7	166.3
175°	166.7	167.3	167.6	167.3	167.3	167.0	166.7	166.4	165.4	165.1	164.8
177.5°	164.1	164.6	164.9	164.9	164.9	164.9	164.6	164.6	164.1	163.8	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	981.2	979.2	977.3	972.5	970.1	964.7	963.9	963.7	956.8	950.1	948.2
5°	1014.9	1009.7	1001.7	992.3	982.7	972.7	966.0	960.7	947.4	934.7	927.4
7.5°	1048.9	1037.5	1023.7	1006.0	991.3	974.8	962.6	951.5	932.6	914.5	902.3
10°	1074.2	1055.6	1037.3	1013.0	994.0	975.4	958.1	943.1	921.8	897.8	880.7
12.5°	1089.9	1069.4	1044.2	1020.5	995.9	972.1	949.0	929.7	904.7	879.9	859.7
15°	1111.3	1089.2	1058.6	1024.7	993.0	962.1	935.4	911.4	878.8	849.2	824.5
17.5°	1128.6	1098.3	1065.4	1026.2	989.5	950.2	915.9	885.2	848.9	813.2	784.2
20°	1134.2	1104.2	1066.2	1027.0	983.6	937.4	900.4	867.1	828.1	789.2	755.9
22.5°	1130.7	1107.4	1065.1	1018.2	973.8	925.4	883.7	845.0	801.8	762.1	723.4
25°	1107.2	1099.2	1059.3	1008.0	957.3	901.1	852.8	810.5	761.3	718.6	676.6
27.5°	1052.4	1069.7	1044.9	990.2	934.0	873.6	819.4	771.2	720.1	672.1	630.3
30°	999.7	1039.3	1028.6	978.0	915.1	855.8	794.9	744.6	690.0	640.7	599.4
32.5°	927.5	992.9	1003.4	961.0	895.9	830.7	766.9	716.8	659.9	607.9	567.7
35°	812.5	910.4	955.4	928.4	863.1	792.9	726.9	668.7	611.4	560.1	520.1
37.5°	675.4	808.7	883.7	885.6	825.6	752.6	680.8	622.9	564.3	514.0	470.7
40°	586.4	730.9	828.5	850.2	799.5	720.6	648.0	589.1	531.8	482.5	432.9
42.5°	506.5	650.5	770.4	808.1	767.9	689.5	616.6	555.0	499.3	452.6	402.0
45°	409.6	535.5	667.6	734.9	712.7	640.0	563.1	504.5	452.2	411.9	363.3
47.5°	345.5	434.3	562.1	653.2	652.7	586.5	510.9	454.7	406.2	368.5	329.0
50°	309.0	386.3	494.5	597.7	606.4	550.8	478.8	423.2	378.0	338.3	306.7
52.5°	276.3	339.9	437.2	536.2	560.8	512.6	442.9	391.6	347.6	311.1	284.0
55°	233.4	282.7	356.7	449.2	486.5	452.5	390.6	342.7	307.0	276.4	253.1
57.5°	197.4	234.4	293.7	368.3	411.7	390.3	339.3	300.3	269.8	242.1	223.7
60°	174.9	205.1	255.4	317.7	365.6	350.6	307.0	270.7	244.8	220.8	203.5
62.5°	153.6	179.6	222.7	273.2	317.2	310.9	275.4	244.9	222.1	200.3	185.7
65°	123.5	142.5	176.1	215.8	251.1	254.0	228.5	207.8	187.4	170.1	157.2
67.5°	98.4	110.8	134.5	167.8	194.3	203.8	188.1	172.3	156.1	142.8	131.5
70°	82.9	92.9	110.2	137.2	161.5	171.5	162.5	150.2	136.2	125.2	115.6
72.5°	67.2	77.0	89.7	109.5	130.4	141.2	138.0	129.1	117.8	108.7	99.6
75°	50.6	53.6	62.2	75.6	91.9	101.2	103.5	98.9	89.9	82.9	77.6
77.5°	37.5	39.2	43.3	50.4	61.0	69.3	72.8	72.2	66.0	62.0	57.0
80°	30.0	30.9	33.0	35.9	44.0	52.3	54.6	54.6	50.3	48.6	43.6
82.5°	22.7	23.5	24.7	26.4	30.1	37.4	39.9	40.5	37.7	35.6	31.7
85°	13.0	12.7	13.3	14.4	15.0	16.9	21.0	21.7	21.0	18.3	17.3
87.5°	6.2	6.1	5.7	5.3	5.4	5.5	6.7	7.8	7.0	6.3	6.0
90°	8.5	6.3	4.7	3.7	3.1	2.5	1.2	0.4	1.2	2.5	3.1
92.5°	31.5	21.4	14.3	11.3	9.2	7.8	5.5	3.8	5.5	7.8	9.2
95°	72.8	45.4	30.9	23.3	18.3	15.4	12.3	11.1	12.3	15.4	18.3
97.5°	98.1	59.8	41.6	33.1	27.3	23.0	19.6	17.9	19.6	23.0	27.3
100°	103.3	64.9	48.2	39.4	33.1	28.0	25.2	24.3	25.2	28.0	33.1
102.5°	103.6	69.5	54.0	45.2	38.6	33.6	30.8	30.1	30.8	33.6	38.6
105°	105.2	77.2	62.4	53.6	46.6	41.9	39.7	38.4	39.7	41.9	46.6
107.5°	109.6	85.2	70.8	61.9	55.0	50.6	48.5	47.5	48.5	50.6	55.0
110°	113.1	90.4	76.6	67.4	60.8	56.7	54.8	53.6	54.8	56.7	60.8





TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	116.9	95.5	82.1	72.7	66.3	62.5	60.4	59.1	60.4	62.5	66.3
115°	122.5	103.3	89.8	81.3	75.0	71.2	69.3	67.8	69.3	71.2	75.0
117.5°	128.6	110.6	98.1	89.3	83.2	79.8	77.9	76.7	77.9	79.8	83.2
120°	132.7	115.7	103.3	94.5	88.2	85.4	83.5	82.2	83.5	85.4	88.2
122.5°	136.2	120.4	108.9	99.8	93.5	90.4	88.5	87.6	88.5	90.4	93.5
125°	141.8	127.6	116.3	107.5	101.1	97.4	95.5	94.5	95.5	97.4	101.1
127.5°	147.0	134.3	123.2	114.1	108.2	104.0	101.3	100.0	101.3	104.0	108.2
130°	150.3	138.3	127.2	118.5	112.2	107.7	104.6	103.3	104.6	107.7	112.2
132.5°	153.6	141.9	131.3	122.5	115.9	111.3	107.9	106.4	107.9	111.3	115.9
135°	157.8	146.9	136.7	128.0	120.6	115.9	112.2	110.9	112.2	115.9	120.6
137.5°	161.1	150.9	140.9	132.7	125.6	120.5	116.7	115.2	116.7	120.5	125.6
140°	162.9	153.1	143.7	135.5	128.6	123.5	119.8	118.5	119.8	123.5	128.6
142.5°	164.4	154.9	145.7	138.0	131.3	126.3	122.8	121.7	122.8	126.3	131.3
145°	166.4	157.6	149.0	142.1	135.8	131.1	128.0	126.6	128.0	131.1	135.8
147.5°	167.5	159.7	151.7	145.5	140.3	135.9	132.9	132.0	132.9	135.9	140.3
150°	167.9	160.7	153.5	147.8	143.0	138.9	136.4	135.5	136.4	138.9	143.0
152.5°	168.2	161.7	155.2	150.1	145.5	142.0	139.5	139.0	139.5	142.0	145.5
155°	168.5	163.2	157.8	153.1	149.6	146.2	144.3	144.0	144.3	146.2	149.6
157.5°	168.5	164.3	159.7	155.8	153.0	150.0	148.5	148.1	148.5	150.0	153.0
160°	168.5	164.8	161.0	157.6	155.0	152.5	151.2	150.9	151.2	152.5	155.0
162.5°	168.3	165.1	161.8	159.1	156.8	154.8	153.5	153.7	153.5	154.8	156.8
165°	167.6	165.4	162.6	160.7	159.1	157.2	156.6	156.9	156.6	157.2	159.1
167.5°	167.2	165.3	163.3	162.1	161.0	159.7	159.2	159.5	159.2	159.7	161.0
170°	166.7	165.1	163.5	162.6	161.9	161.0	160.7	161.3	160.7	161.0	161.9
172.5°	165.9	164.9	163.8	163.1	162.7	161.8	161.9	162.3	161.9	161.8	162.7
175°	165.1	164.4	163.8	163.5	163.5	162.9	163.2	163.5	163.2	162.9	163.5
177.5°	164.6	164.1	163.8	163.8	163.8	163.4	163.5	164.1	163.5	163.4	163.8
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	944.8	942.9	939.4	934.2	930.9	925.3	921.6	923.7	924.3	923.7	923.2
5°	919.4	912.4	902.8	893.4	884.8	875.5	870.1	867.8	863.1	860.5	859.2
7.5°	888.7	876.6	863.0	846.8	832.9	818.5	811.1	807.4	797.9	792.7	788.2
10°	865.8	846.8	833.1	811.8	798.9	779.9	766.9	767.2	754.2	746.9	741.5
12.5°	840.5	819.7	796.9	777.8	759.7	744.5	728.8	722.5	708.6	701.6	687.2
15°	798.5	774.2	750.3	724.2	706.0	682.3	659.7	632.0	609.8	590.4	585.1
17.5°	752.7	722.6	698.6	668.1	636.7	596.9	570.7	554.6	541.2	531.0	523.4
20°	721.3	690.6	665.0	619.0	576.8	549.7	530.5	518.2	504.2	493.2	487.1
22.5°	688.2	656.3	621.3	570.0	537.1	515.4	498.2	484.0	474.6	466.0	460.6
25°	641.3	606.4	548.8	513.4	486.9	464.2	452.2	443.5	433.5	421.9	416.6
27.5°	591.8	536.2	494.8	468.6	443.2	428.5	417.7	404.7	395.8	390.6	385.0
30°	554.7	499.2	466.9	438.2	420.3	403.9	391.3	384.0	375.3	366.3	362.7
32.5°	513.4	469.0	438.1	414.3	396.0	382.1	372.1	360.3	354.0	348.5	340.8
35°	462.2	428.6	400.3	380.9	363.6	352.3	340.6	333.7	322.4	317.7	314.7
37.5°	418.7	389.6	368.5	348.1	334.4	321.9	314.8	303.6	298.7	292.2	285.9
40°	394.2	365.6	345.4	328.7	313.3	304.0	295.1	286.1	278.7	275.7	268.0
42.5°	369.3	345.9	325.6	307.4	297.1	287.2	275.9	269.3	261.6	256.8	252.1
45°	334.7	314.1	296.7	281.7	270.4	260.1	252.7	241.7	237.5	227.7	223.7
47.5°	304.3	285.1	268.6	254.3	243.3	236.6	225.9	217.2	210.4	204.4	199.3
50°	282.7	266.7	250.7	238.1	228.1	218.5	207.5	203.1	192.4	189.5	186.5
52.5°	263.0	247.8	233.2	220.8	210.8	201.4	191.7	186.1	178.9	175.8	173.7
55°	235.4	220.8	206.8	195.8	185.8	176.1	170.1	163.2	159.8	157.5	154.8
57.5°	207.7	194.6	183.8	172.7	162.6	155.0	148.0	143.8	140.4	137.3	134.1
60°	190.1	177.5	167.8	157.5	147.2	140.9	135.5	130.5	126.5	121.9	120.6
62.5°	171.5	160.4	151.6	141.5	132.5	126.7	121.7	117.0	112.2	105.4	103.5
65°	145.9	137.2	127.9	119.6	111.6	105.9	98.5	93.3	91.2	90.6	90.2
67.5°	122.7	114.5	106.5	98.0	90.7	85.4	81.7	80.9	79.5	79.1	78.2
70°	107.2	99.6	91.6	83.6	76.6	75.6	74.3	72.9	71.2	70.6	69.9
72.5°	93.4	85.4	77.5	71.1	68.0	66.8	65.5	64.1	63.0	62.3	62.0
75°	71.6	64.3	58.9	56.6	54.9	53.9	52.0	50.9	50.3	49.3	49.0
77.5°	51.5	47.4	44.9	43.5	41.7	40.7	39.6	38.5	37.8	37.6	37.1
80°	39.3	37.3	35.7	33.6	33.0	31.7	31.3	30.3	30.7	29.6	29.6
82.5°	30.5	28.0	26.6	25.7	25.0	23.9	23.5	23.1	23.2	22.5	22.5
85°	15.7	15.0	14.4	13.6	13.6	12.7	13.0	12.7	12.7	11.9	11.7
87.5°	5.8	5.7	5.5	6.0	6.3	6.2	6.1	5.7	5.6	5.7	5.5
90°	3.7	4.7	6.3	8.5	10.4	10.7	10.4	10.1	9.5	10.1	10.4
92.5°	11.3	14.3	21.4	31.5	40.4	40.9	34.6	27.5	23.5	21.0	19.0
95°	23.3	30.9	45.4	72.8	109.3	123.5	108.1	82.6	63.3	50.1	43.2
97.5°	33.1	41.6	59.8	98.1	158.8	210.8	221.1	192.6	157.6	123.5	100.8
100°	39.4	48.2	64.9	103.3	171.4	248.9	294.3	287.7	248.6	205.5	167.3
102.5°	45.2	54.0	69.5	103.6	166.6	250.1	321.5	349.9	341.1	309.5	269.1
105°	53.6	62.4	77.2	105.2	157.2	233.4	317.3	382.8	418.4	422.5	412.1
107.5°	61.9	70.8	85.2	109.6	152.6	215.5	289.6	359.1	412.8	445.5	460.7
110°	67.4	76.6	90.4	113.1	151.6	207.0	272.2	338.7	395.1	435.4	461.3



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	72.7	82.1	95.5	116.9	151.8	201.4	260.1	320.0	374.2	417.2	446.9
115°	81.3	89.8	103.3	122.5	153.1	195.4	245.1	297.1	345.6	386.9	419.4
117.5°	89.3	98.1	110.6	128.6	155.4	192.3	235.7	279.8	322.4	359.9	390.3
120°	94.5	103.3	115.7	132.7	156.9	190.6	230.6	271.3	310.3	343.8	372.4
122.5°	99.8	108.9	120.4	136.2	158.6	189.6	226.3	264.5	300.2	331.9	357.8
125°	107.5	116.3	127.6	141.8	161.3	187.8	220.3	254.6	287.0	314.8	338.4
127.5°	114.1	123.2	134.3	147.0	164.0	186.7	214.5	244.8	274.2	300.3	322.1
130°	118.5	127.2	138.3	150.3	166.0	186.2	210.8	238.5	265.6	290.5	311.3
132.5°	122.5	131.3	141.9	153.6	168.1	185.9	207.8	232.5	257.5	280.4	300.0
135°	128.0	136.7	146.9	157.8	170.5	185.6	203.5	224.0	244.8	265.6	283.2
137.5°	132.7	140.9	150.9	161.1	172.6	185.5	200.5	217.3	234.7	251.2	266.5
140°	135.5	143.7	153.1	162.9	173.6	185.3	198.8	212.9	228.1	242.6	256.5
142.5°	138.0	145.7	154.9	164.4	174.3	185.3	197.1	209.5	222.3	234.8	246.4
145°	142.1	149.0	157.6	166.4	175.1	184.6	194.7	204.5	214.9	224.6	233.8
147.5°	145.5	151.7	159.7	167.5	175.4	183.5	192.3	200.6	208.8	216.4	223.1
150°	147.8	153.5	160.7	167.9	175.1	182.7	190.3	197.9	204.8	211.4	217.0
152.5°	150.1	155.2	161.7	168.2	174.7	181.5	188.5	195.1	201.5	207.1	212.0
155°	153.1	157.8	163.2	168.5	173.9	179.2	185.3	191.3	196.3	201.0	204.5
157.5°	155.8	159.7	164.3	168.5	172.5	177.0	182.2	186.8	191.0	194.9	197.7
160°	157.6	161.0	164.8	168.5	171.7	175.5	179.9	184.0	187.4	190.9	193.1
162.5°	159.1	161.8	165.1	168.3	170.9	174.2	177.9	181.2	184.2	187.2	188.9
165°	160.7	162.6	165.4	167.6	169.5	171.7	174.5	177.1	179.2	181.5	182.7
167.5°	162.1	163.3	165.3	167.2	168.1	169.5	171.3	173.1	174.8	176.3	177.5
170°	162.6	163.5	165.1	166.7	167.3	168.3	169.5	171.1	172.0	173.3	173.9
172.5°	163.1	163.8	164.9	165.9	166.3	166.7	167.7	168.8	169.5	170.5	170.9
175°	163.5	163.8	164.4	165.1	164.8	165.1	165.4	166.4	166.7	167.0	167.3
177.5°	163.8	163.8	164.1	164.6	164.1	163.8	164.1	164.6	164.6	164.9	164.9
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	920.2	920.8	920.0	920.5	920.0	920.8	920.2	923.2	923.7	924.3	923.7
5°	857.5	853.5	852.8	851.9	852.8	853.5	857.5	859.2	860.5	863.1	867.8
7.5°	782.5	781.9	780.2	777.8	780.2	781.9	782.5	788.2	792.7	797.9	807.4
10°	734.2	732.6	732.3	730.0	732.3	732.6	734.2	741.5	746.9	754.2	767.2
12.5°	677.8	667.1	665.9	660.1	665.9	667.1	677.8	687.2	701.6	708.6	722.5
15°	577.1	575.1	568.5	564.1	568.5	575.1	577.1	585.1	590.4	609.8	632.0
17.5°	519.5	513.0	511.0	510.1	511.0	513.0	519.5	523.4	531.0	541.2	554.6
20°	482.5	476.5	475.5	474.8	475.5	476.5	482.5	487.1	493.2	504.2	518.2
22.5°	456.9	450.7	448.1	446.1	448.1	450.7	456.9	460.6	466.0	474.6	484.0
25°	413.2	410.9	409.6	408.9	409.6	410.9	413.2	416.6	421.9	433.5	443.5
27.5°	379.1	374.0	372.9	371.2	372.9	374.0	379.1	385.0	390.6	395.8	404.7
30°	359.6	357.9	355.6	353.7	355.6	357.9	359.6	362.7	366.3	375.3	384.0
32.5°	336.7	335.4	333.2	332.3	333.2	335.4	336.7	340.8	348.5	354.0	360.3
35°	311.4	306.7	304.7	301.7	304.7	306.7	311.4	314.7	317.7	322.4	333.7
37.5°	284.5	282.0	279.3	280.3	279.3	282.0	284.5	285.9	292.2	298.7	303.6
40°	263.8	262.1	261.4	261.1	261.4	262.1	263.8	268.0	275.7	278.7	286.1
42.5°	247.2	242.6	240.9	240.9	240.9	242.6	247.2	252.1	256.8	261.6	269.3
45°	222.1	217.8	214.8	215.1	214.8	217.8	222.1	223.7	227.7	237.5	241.7
47.5°	196.4	196.3	194.4	195.0	194.4	196.3	196.4	199.3	204.4	210.4	217.2
50°	184.1	182.2	180.8	181.1	180.8	182.2	184.1	186.5	189.5	192.4	203.1
52.5°	172.5	170.7	169.6	171.0	169.6	170.7	172.5	173.7	175.8	178.9	186.1
55°	153.2	151.1	150.9	150.5	150.9	151.1	153.2	154.8	157.5	159.8	163.2
57.5°	131.7	130.4	128.3	127.5	128.3	130.4	131.7	134.1	137.3	140.4	143.8
60°	116.2	113.5	110.2	109.9	110.2	113.5	116.2	120.6	121.9	126.5	130.5
62.5°	102.1	101.6	100.9	100.9	100.9	101.6	102.1	103.5	105.4	112.2	117.0
65°	89.6	89.3	89.6	89.9	89.6	89.3	89.6	90.2	90.6	91.2	93.3
67.5°	78.0	77.5	76.9	77.1	76.9	77.5	78.0	78.2	79.1	79.5	80.9
70°	69.3	68.9	68.6	68.6	68.6	68.9	69.3	69.9	70.6	71.2	72.9
72.5°	60.7	60.6	60.4	60.1	60.4	60.6	60.7	62.0	62.3	63.0	64.1
75°	48.6	48.0	48.0	48.0	48.0	48.0	48.6	49.0	49.3	50.3	50.9
77.5°	37.0	36.7	36.4	36.1	36.4	36.7	37.0	37.1	37.6	37.8	38.5
80°	29.3	29.0	28.6	28.6	28.6	29.0	29.3	29.6	29.6	30.7	30.3
82.5°	22.4	22.0	21.9	21.7	21.9	22.0	22.4	22.5	22.5	23.2	23.1
85°	11.9	12.3	11.9	12.7	11.9	12.3	11.9	11.7	11.9	12.7	12.7
87.5°	5.5	5.3	5.5	5.3	5.5	5.3	5.5	5.5	5.7	5.6	5.7
90°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.1	9.5	10.1
92.5°	18.7	17.7	17.9	17.5	17.9	17.7	18.7	19.0	21.0	23.5	27.5
95°	39.1	36.6	35.6	35.9	35.6	36.6	39.1	43.2	50.1	63.3	82.6
97.5°	85.7	77.9	73.4	70.7	73.4	77.9	85.7	100.8	123.5	157.6	192.6
100°	141.2	127.6	118.5	112.8	118.5	127.6	141.2	167.3	205.5	248.6	287.7
102.5°	240.7	217.6	206.2	198.5	206.2	217.6	240.7	269.1	309.5	341.1	349.9
105°	392.5	373.0	359.4	355.1	359.4	373.0	392.5	412.1	422.5	418.4	382.8
107.5°	463.2	462.2	459.4	453.6	459.4	462.2	463.2	460.7	445.5	412.8	359.1
110°	474.8	480.8	483.7	483.3	483.7	480.8	474.8	461.3	435.4	395.1	338.7



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	465.7	475.7	481.1	482.8	481.1	475.7	465.7	446.9	417.2	374.2	320.0
115°	441.8	456.2	464.4	467.3	464.4	456.2	441.8	419.4	386.9	345.6	297.1
117.5°	413.1	428.5	437.0	439.4	437.0	428.5	413.1	390.3	359.9	322.4	279.8
120°	394.5	409.3	418.4	421.6	418.4	409.3	394.5	372.4	343.8	310.3	271.3
122.5°	377.6	392.2	400.3	402.9	400.3	392.2	377.6	357.8	331.9	300.2	264.5
125°	356.7	368.6	376.5	379.1	376.5	368.6	356.7	338.4	314.8	287.0	254.6
127.5°	338.0	349.3	356.1	358.1	356.1	349.3	338.0	322.1	300.3	274.2	244.8
130°	326.7	337.4	343.8	346.3	343.8	337.4	326.7	311.3	290.5	265.6	238.5
132.5°	315.1	325.8	331.6	333.9	331.6	325.8	315.1	300.0	280.4	257.5	232.5
135°	296.8	307.2	312.9	314.1	312.9	307.2	296.8	283.2	265.6	244.8	224.0
137.5°	278.9	287.8	292.8	294.7	292.8	287.8	278.9	266.5	251.2	234.7	217.3
140°	266.5	274.7	279.5	281.3	279.5	274.7	266.5	256.5	242.6	228.1	212.9
142.5°	255.9	263.4	267.6	268.0	267.6	263.4	255.9	246.4	234.8	222.3	209.5
145°	241.3	246.7	249.9	250.7	249.9	246.7	241.3	233.8	224.6	214.9	204.5
147.5°	229.3	233.6	235.8	236.4	235.8	233.6	229.3	223.1	216.4	208.8	200.6
150°	221.8	225.6	227.5	227.8	227.5	225.6	221.8	217.0	211.4	204.8	197.9
152.5°	215.8	219.0	220.4	220.5	220.4	219.0	215.8	212.0	207.1	201.5	195.1
155°	207.9	210.2	211.4	210.8	211.4	210.2	207.9	204.5	201.0	196.3	191.3
157.5°	200.1	202.0	202.5	202.5	202.5	202.0	200.1	197.7	194.9	191.0	186.8
160°	195.4	196.9	197.2	197.2	197.2	196.9	195.4	193.1	190.9	187.4	184.0
162.5°	191.1	192.2	192.4	192.2	192.4	192.2	191.1	188.9	187.2	184.2	181.2
165°	184.0	185.3	185.3	184.9	185.3	185.3	184.0	182.7	181.5	179.2	177.1
167.5°	178.0	178.7	178.6	178.3	178.6	178.7	178.0	177.5	176.3	174.8	173.1
170°	174.2	175.1	174.9	174.2	174.9	175.1	174.2	173.9	173.3	172.0	171.1
172.5°	171.2	171.7	171.3	170.9	171.3	171.7	171.2	170.9	170.5	169.5	168.8
175°	167.3	167.6	167.3	166.7	167.3	167.6	167.3	167.3	167.0	166.7	166.4
177.5°	164.9	164.9	164.6	164.1	164.6	164.9	164.9	164.9	164.9	164.6	164.6
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331647-940  
 CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	921.6	925.3	930.9	934.2	939.4	942.9	944.8	948.2	950.1	956.8	963.7
5°	870.1	875.5	884.8	893.4	902.8	912.4	919.4	927.4	934.7	947.4	960.7
7.5°	811.1	818.5	832.9	846.8	863.0	876.6	888.7	902.3	914.5	932.6	951.5
10°	766.9	779.9	798.9	811.8	833.1	846.8	865.8	880.7	897.8	921.8	943.1
12.5°	728.8	744.5	759.7	777.8	796.9	819.7	840.5	859.7	879.9	904.7	929.7
15°	659.7	682.3	706.0	724.2	750.3	774.2	798.5	824.5	849.2	878.8	911.4
17.5°	570.7	596.9	636.7	668.1	698.6	722.6	752.7	784.2	813.2	848.9	885.2
20°	530.5	549.7	576.8	619.0	665.0	690.6	721.3	755.9	789.2	828.1	867.1
22.5°	498.2	515.4	537.1	570.0	621.3	656.3	688.2	723.4	762.1	801.8	845.0
25°	452.2	464.2	486.9	513.4	548.8	606.4	641.3	676.6	718.6	761.3	810.5
27.5°	417.7	428.5	443.2	468.6	494.8	536.2	591.8	630.3	672.1	720.1	771.2
30°	391.3	403.9	420.3	438.2	466.9	499.2	554.7	599.4	640.7	690.0	744.6
32.5°	372.1	382.1	396.0	414.3	438.1	469.0	513.4	567.7	607.9	659.9	716.8
35°	340.6	352.3	363.6	380.9	400.3	428.6	462.2	520.1	560.1	611.4	668.7
37.5°	314.8	321.9	334.4	348.1	368.5	389.6	418.7	470.7	514.0	564.3	622.9
40°	295.1	304.0	313.3	328.7	345.4	365.6	394.2	432.9	482.5	531.8	589.1
42.5°	275.9	287.2	297.1	307.4	325.6	345.9	369.3	402.0	452.6	499.3	555.0
45°	252.7	260.1	270.4	281.7	296.7	314.1	334.7	363.3	411.9	452.2	504.5
47.5°	225.9	236.6	243.3	254.3	268.6	285.1	304.3	329.0	368.5	406.2	454.7
50°	207.5	218.5	228.1	238.1	250.7	266.7	282.7	306.7	338.3	378.0	423.2
52.5°	191.7	201.4	210.8	220.8	233.2	247.8	263.0	284.0	311.1	347.6	391.6
55°	170.1	176.1	185.8	195.8	206.8	220.8	235.4	253.1	276.4	307.0	342.7
57.5°	148.0	155.0	162.6	172.7	183.8	194.6	207.7	223.7	242.1	269.8	300.3
60°	135.5	140.9	147.2	157.5	167.8	177.5	190.1	203.5	220.8	244.8	270.7
62.5°	121.7	126.7	132.5	141.5	151.6	160.4	171.5	185.7	200.3	222.1	244.9
65°	98.5	105.9	111.6	119.6	127.9	137.2	145.9	157.2	170.1	187.4	207.8
67.5°	81.7	85.4	90.7	98.0	106.5	114.5	122.7	131.5	142.8	156.1	172.3
70°	74.3	75.6	76.6	83.6	91.6	99.6	107.2	115.6	125.2	136.2	150.2
72.5°	65.5	66.8	68.0	71.1	77.5	85.4	93.4	99.6	108.7	117.8	129.1
75°	52.0	53.9	54.9	56.6	58.9	64.3	71.6	77.6	82.9	89.9	98.9
77.5°	39.6	40.7	41.7	43.5	44.9	47.4	51.5	57.0	62.0	66.0	72.2
80°	31.3	31.7	33.0	33.6	35.7	37.3	39.3	43.6	48.6	50.3	54.6
82.5°	23.5	23.9	25.0	25.7	26.6	28.0	30.5	31.7	35.6	37.7	40.5
85°	13.0	12.7	13.6	13.6	14.4	15.0	15.7	17.3	18.3	21.0	21.7
87.5°	6.1	6.2	6.3	6.0	5.5	5.7	5.8	6.0	6.3	7.0	7.8
90°	10.4	10.7	10.4	8.5	6.3	4.7	3.7	3.1	2.5	1.2	0.4
92.5°	34.6	40.9	40.4	31.5	21.4	14.3	11.3	9.2	7.8	5.5	3.8
95°	108.1	123.5	109.3	72.8	45.4	30.9	23.3	18.3	15.4	12.3	11.1
97.5°	221.1	210.8	158.8	98.1	59.8	41.6	33.1	27.3	23.0	19.6	17.9
100°	294.3	248.9	171.4	103.3	64.9	48.2	39.4	33.1	28.0	25.2	24.3
102.5°	321.5	250.1	166.6	103.6	69.5	54.0	45.2	38.6	33.6	30.8	30.1
105°	317.3	233.4	157.2	105.2	77.2	62.4	53.6	46.6	41.9	39.7	38.4
107.5°	289.6	215.5	152.6	109.6	85.2	70.8	61.9	55.0	50.6	48.5	47.5
110°	272.2	207.0	151.6	113.1	90.4	76.6	67.4	60.8	56.7	54.8	53.6



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.1	201.4	151.8	116.9	95.5	82.1	72.7	66.3	62.5	60.4	59.1
115°	245.1	195.4	153.1	122.5	103.3	89.8	81.3	75.0	71.2	69.3	67.8
117.5°	235.7	192.3	155.4	128.6	110.6	98.1	89.3	83.2	79.8	77.9	76.7
120°	230.6	190.6	156.9	132.7	115.7	103.3	94.5	88.2	85.4	83.5	82.2
122.5°	226.3	189.6	158.6	136.2	120.4	108.9	99.8	93.5	90.4	88.5	87.6
125°	220.3	187.8	161.3	141.8	127.6	116.3	107.5	101.1	97.4	95.5	94.5
127.5°	214.5	186.7	164.0	147.0	134.3	123.2	114.1	108.2	104.0	101.3	100.0
130°	210.8	186.2	166.0	150.3	138.3	127.2	118.5	112.2	107.7	104.6	103.3
132.5°	207.8	185.9	168.1	153.6	141.9	131.3	122.5	115.9	111.3	107.9	106.4
135°	203.5	185.6	170.5	157.8	146.9	136.7	128.0	120.6	115.9	112.2	110.9
137.5°	200.5	185.5	172.6	161.1	150.9	140.9	132.7	125.6	120.5	116.7	115.2
140°	198.8	185.3	173.6	162.9	153.1	143.7	135.5	128.6	123.5	119.8	118.5
142.5°	197.1	185.3	174.3	164.4	154.9	145.7	138.0	131.3	126.3	122.8	121.7
145°	194.7	184.6	175.1	166.4	157.6	149.0	142.1	135.8	131.1	128.0	126.6
147.5°	192.3	183.5	175.4	167.5	159.7	151.7	145.5	140.3	135.9	132.9	132.0
150°	190.3	182.7	175.1	167.9	160.7	153.5	147.8	143.0	138.9	136.4	135.5
152.5°	188.5	181.5	174.7	168.2	161.7	155.2	150.1	145.5	142.0	139.5	139.0
155°	185.3	179.2	173.9	168.5	163.2	157.8	153.1	149.6	146.2	144.3	144.0
157.5°	182.2	177.0	172.5	168.5	164.3	159.7	155.8	153.0	150.0	148.5	148.1
160°	179.9	175.5	171.7	168.5	164.8	161.0	157.6	155.0	152.5	151.2	150.9
162.5°	177.9	174.2	170.9	168.3	165.1	161.8	159.1	156.8	154.8	153.5	153.7
165°	174.5	171.7	169.5	167.6	165.4	162.6	160.7	159.1	157.2	156.6	156.9
167.5°	171.3	169.5	168.1	167.2	165.3	163.3	162.1	161.0	159.7	159.2	159.5
170°	169.5	168.3	167.3	166.7	165.1	163.5	162.6	161.9	161.0	160.7	161.3
172.5°	167.7	166.7	166.3	165.9	164.9	163.8	163.1	162.7	161.8	161.9	162.3
175°	165.4	165.1	164.8	165.1	164.4	163.8	163.5	163.5	162.9	163.2	163.5
177.5°	164.1	163.8	164.1	164.6	164.1	163.8	163.8	163.8	163.4	163.5	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	963.9	964.7	970.1	972.5	977.3	979.2	981.2	980.7	980.7	981.8	989.3
5°	966.0	972.7	982.7	992.3	1001.7	1009.7	1014.9	1020.3	1022.3	1032.0	1040.6
7.5°	962.6	974.8	991.3	1006.0	1023.7	1037.5	1048.9	1059.3	1066.3	1080.4	1094.8
10°	958.1	975.4	994.0	1013.0	1037.3	1055.6	1074.2	1088.6	1093.2	1114.2	1126.2
12.5°	949.0	972.1	995.9	1020.5	1044.2	1069.4	1089.9	1104.3	1120.7	1139.5	1161.6
15°	935.4	962.1	993.0	1024.7	1058.6	1089.2	1111.3	1136.2	1154.1	1174.8	1194.1
17.5°	915.9	950.2	989.5	1026.2	1065.4	1098.3	1128.6	1152.5	1165.2	1177.0	1179.9
20°	900.4	937.4	983.6	1027.0	1066.2	1104.2	1134.2	1154.1	1157.5	1157.8	1140.1
22.5°	883.7	925.4	973.8	1018.2	1065.1	1107.4	1130.7	1139.2	1126.1	1103.5	1069.3
25°	852.8	901.1	957.3	1008.0	1059.3	1099.2	1107.2	1092.3	1046.0	997.3	935.8
27.5°	819.4	873.6	934.0	990.2	1044.9	1069.7	1052.4	998.4	915.0	842.6	754.7
30°	794.9	855.8	915.1	978.0	1028.6	1039.3	999.7	920.1	822.9	713.6	626.1
32.5°	766.9	830.7	895.9	961.0	1003.4	992.9	927.5	829.5	715.5	608.1	525.3
35°	726.9	792.9	863.1	928.4	955.4	910.4	812.5	685.0	568.5	468.2	411.3
37.5°	680.8	752.6	825.6	885.6	883.7	808.7	675.4	543.7	445.8	386.5	345.9
40°	648.0	720.6	799.5	850.2	828.5	730.9	586.4	462.2	390.6	343.3	313.7
42.5°	616.6	689.5	767.9	808.1	770.4	650.5	506.5	409.2	350.1	313.3	289.2
45°	563.1	640.0	712.7	734.9	667.6	535.5	409.6	339.0	299.7	272.4	255.7
47.5°	510.9	586.5	652.7	653.2	562.1	434.3	345.5	293.4	259.8	238.7	226.6
50°	478.8	550.8	606.4	597.7	494.5	386.3	309.0	264.0	236.1	219.8	207.1
52.5°	442.9	512.6	560.8	536.2	437.2	339.9	276.3	238.5	215.3	201.2	189.8
55°	390.6	452.5	486.5	449.2	356.7	282.7	233.4	203.8	186.5	174.5	164.9
57.5°	339.3	390.3	411.7	368.3	293.7	234.4	197.4	175.2	158.0	149.5	144.5
60°	307.0	350.6	365.6	317.7	255.4	205.1	174.9	154.2	141.5	135.9	130.9
62.5°	275.4	310.9	317.2	273.2	222.7	179.6	153.6	136.1	127.7	122.3	117.5
65°	228.5	254.0	251.1	215.8	176.1	142.5	123.5	112.9	106.6	98.9	90.6
67.5°	188.1	203.8	194.3	167.8	134.5	110.8	98.4	90.3	82.5	75.2	73.3
70°	162.5	171.5	161.5	137.2	110.2	92.9	82.9	73.3	68.6	67.0	63.9
72.5°	138.0	141.2	130.4	109.5	89.7	77.0	67.2	61.8	59.3	57.9	55.9
75°	103.5	101.2	91.9	75.6	62.2	53.6	50.6	48.6	47.0	45.7	44.6
77.5°	72.8	69.3	61.0	50.4	43.3	39.2	37.5	36.4	35.6	34.9	33.9
80°	54.6	52.3	44.0	35.9	33.0	30.9	30.0	28.6	28.6	28.0	26.9
82.5°	39.9	37.4	30.1	26.4	24.7	23.5	22.7	21.9	21.7	21.8	21.1
85°	21.0	16.9	15.0	14.4	13.3	12.7	13.0	12.3	12.3	12.3	11.9
87.5°	6.7	5.5	5.4	5.3	5.7	6.1	6.2	6.6	7.0	6.6	6.8
90°	1.2	2.5	3.1	3.7	4.7	6.3	8.5	10.4	10.7	10.4	10.1
92.5°	5.5	7.8	9.2	11.3	14.3	21.4	31.5	40.4	40.9	34.6	27.5
95°	12.3	15.4	18.3	23.3	30.9	45.4	72.8	109.3	123.5	108.1	82.6
97.5°	19.6	23.0	27.3	33.1	41.6	59.8	98.1	158.8	210.8	221.1	192.6
100°	25.2	28.0	33.1	39.4	48.2	64.9	103.3	171.4	248.9	294.3	287.7
102.5°	30.8	33.6	38.6	45.2	54.0	69.5	103.6	166.6	250.1	321.5	349.9
105°	39.7	41.9	46.6	53.6	62.4	77.2	105.2	157.2	233.4	317.3	382.8
107.5°	48.5	50.6	55.0	61.9	70.8	85.2	109.6	152.6	215.5	289.6	359.1
110°	54.8	56.7	60.8	67.4	76.6	90.4	113.1	151.6	207.0	272.2	338.7





TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.4	62.5	66.3	72.7	82.1	95.5	116.9	151.8	201.4	260.1	320.0
115°	69.3	71.2	75.0	81.3	89.8	103.3	122.5	153.1	195.4	245.1	297.1
117.5°	77.9	79.8	83.2	89.3	98.1	110.6	128.6	155.4	192.3	235.7	279.8
120°	83.5	85.4	88.2	94.5	103.3	115.7	132.7	156.9	190.6	230.6	271.3
122.5°	88.5	90.4	93.5	99.8	108.9	120.4	136.2	158.6	189.6	226.3	264.5
125°	95.5	97.4	101.1	107.5	116.3	127.6	141.8	161.3	187.8	220.3	254.6
127.5°	101.3	104.0	108.2	114.1	123.2	134.3	147.0	164.0	186.7	214.5	244.8
130°	104.6	107.7	112.2	118.5	127.2	138.3	150.3	166.0	186.2	210.8	238.5
132.5°	107.9	111.3	115.9	122.5	131.3	141.9	153.6	168.1	185.9	207.8	232.5
135°	112.2	115.9	120.6	128.0	136.7	146.9	157.8	170.5	185.6	203.5	224.0
137.5°	116.7	120.5	125.6	132.7	140.9	150.9	161.1	172.6	185.5	200.5	217.3
140°	119.8	123.5	128.6	135.5	143.7	153.1	162.9	173.6	185.3	198.8	212.9
142.5°	122.8	126.3	131.3	138.0	145.7	154.9	164.4	174.3	185.3	197.1	209.5
145°	128.0	131.1	135.8	142.1	149.0	157.6	166.4	175.1	184.6	194.7	204.5
147.5°	132.9	135.9	140.3	145.5	151.7	159.7	167.5	175.4	183.5	192.3	200.6
150°	136.4	138.9	143.0	147.8	153.5	160.7	167.9	175.1	182.7	190.3	197.9
152.5°	139.5	142.0	145.5	150.1	155.2	161.7	168.2	174.7	181.5	188.5	195.1
155°	144.3	146.2	149.6	153.1	157.8	163.2	168.5	173.9	179.2	185.3	191.3
157.5°	148.5	150.0	153.0	155.8	159.7	164.3	168.5	172.5	177.0	182.2	186.8
160°	151.2	152.5	155.0	157.6	161.0	164.8	168.5	171.7	175.5	179.9	184.0
162.5°	153.5	154.8	156.8	159.1	161.8	165.1	168.3	170.9	174.2	177.9	181.2
165°	156.6	157.2	159.1	160.7	162.6	165.4	167.6	169.5	171.7	174.5	177.1
167.5°	159.2	159.7	161.0	162.1	163.3	165.3	167.2	168.1	169.5	171.3	173.1
170°	160.7	161.0	161.9	162.6	163.5	165.1	166.7	167.3	168.3	169.5	171.1
172.5°	161.9	161.8	162.7	163.1	163.8	164.9	165.9	166.3	166.7	167.7	168.8
175°	163.2	162.9	163.5	163.5	163.8	164.4	165.1	164.8	165.1	165.4	166.4
177.5°	163.5	163.4	163.8	163.8	163.8	164.1	164.6	164.1	163.8	164.1	164.6
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331647-940  
 CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	991.9	995.4	997.0	997.0	998.9	998.1	997.3
5°	1048.9	1055.3	1056.6	1062.6	1066.9	1065.6	1066.2
7.5°	1105.6	1115.8	1125.9	1130.4	1131.2	1133.9	1134.9
10°	1140.5	1148.9	1164.5	1162.2	1173.8	1180.4	1169.5
12.5°	1174.1	1185.4	1196.2	1199.2	1205.8	1207.9	1203.5
15°	1204.4	1210.4	1211.1	1209.4	1211.5	1209.8	1203.5
17.5°	1176.1	1166.4	1146.7	1137.3	1129.9	1119.0	1114.6
20°	1129.2	1100.5	1067.3	1053.9	1038.3	1007.6	1014.9
22.5°	1028.0	995.3	962.1	923.1	904.6	875.5	873.8
25°	870.5	814.2	752.2	708.9	683.7	654.7	642.0
27.5°	676.8	605.9	555.2	529.5	506.0	483.1	482.1
30°	549.5	496.1	456.9	434.9	420.6	410.9	413.0
32.5°	463.2	426.6	400.1	381.9	371.3	364.0	363.9
35°	378.6	353.7	336.6	329.0	321.4	316.0	316.4
37.5°	324.0	309.0	299.5	291.1	286.3	283.7	282.2
40°	296.0	283.7	276.4	271.4	267.4	263.8	263.1
42.5°	273.9	263.8	256.4	252.4	248.8	246.1	245.5
45°	243.1	234.8	228.1	223.7	222.1	219.8	219.8
47.5°	216.2	208.0	202.9	200.1	197.2	195.7	195.6
50°	198.1	191.8	187.2	185.5	183.2	182.2	181.8
52.5°	181.9	177.2	173.8	172.7	171.7	170.4	170.6
55°	159.8	157.2	155.9	154.8	153.2	151.1	152.5
57.5°	141.2	139.0	135.4	132.2	130.7	129.3	129.8
60°	128.2	123.5	118.9	115.2	114.2	111.2	111.2
62.5°	111.7	105.1	99.4	97.4	96.4	95.0	94.7
65°	85.9	83.3	81.9	80.6	79.9	79.9	79.3
67.5°	71.2	70.1	68.7	68.3	67.7	67.5	67.2
70°	63.0	61.6	60.9	60.6	59.9	60.3	59.3
72.5°	54.9	53.9	53.8	52.9	52.5	52.5	51.8
75°	43.2	43.2	43.0	42.6	42.0	41.6	42.0
77.5°	33.3	33.3	32.7	32.7	32.6	32.7	32.4
80°	26.7	26.9	26.7	26.3	25.9	26.3	25.9
82.5°	21.0	20.6	20.5	20.4	20.4	20.2	20.2
85°	11.9	12.3	11.9	11.7	11.7	11.7	11.9
87.5°	6.4	6.5	6.6	6.6	6.6	6.6	6.3
90°	9.5	10.1	10.4	10.4	10.4	10.4	10.4
92.5°	23.5	21.0	19.0	18.7	17.7	17.9	17.5
95°	63.3	50.1	43.2	39.1	36.6	35.6	35.9
97.5°	157.6	123.5	100.8	85.7	77.9	73.4	70.7
100°	248.6	205.5	167.3	141.2	127.6	118.5	112.8
102.5°	341.1	309.5	269.1	240.7	217.6	206.2	198.5
105°	418.4	422.5	412.1	392.5	373.0	359.4	355.1
107.5°	412.8	445.5	460.7	463.2	462.2	459.4	453.6
110°	395.1	435.4	461.3	474.8	480.8	483.7	483.3



TEST NUMBER: P331647-940

CATALOG NUMBER: SA2XXRDIP-C485D330U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	374.2	417.2	446.9	465.7	475.7	481.1	482.8
115°	345.6	386.9	419.4	441.8	456.2	464.4	467.3
117.5°	322.4	359.9	390.3	413.1	428.5	437.0	439.4
120°	310.3	343.8	372.4	394.5	409.3	418.4	421.6
122.5°	300.2	331.9	357.8	377.6	392.2	400.3	402.9
125°	287.0	314.8	338.4	356.7	368.6	376.5	379.1
127.5°	274.2	300.3	322.1	338.0	349.3	356.1	358.1
130°	265.6	290.5	311.3	326.7	337.4	343.8	346.3
132.5°	257.5	280.4	300.0	315.1	325.8	331.6	333.9
135°	244.8	265.6	283.2	296.8	307.2	312.9	314.1
137.5°	234.7	251.2	266.5	278.9	287.8	292.8	294.7
140°	228.1	242.6	256.5	266.5	274.7	279.5	281.3
142.5°	222.3	234.8	246.4	255.9	263.4	267.6	268.0
145°	214.9	224.6	233.8	241.3	246.7	249.9	250.7
147.5°	208.8	216.4	223.1	229.3	233.6	235.8	236.4
150°	204.8	211.4	217.0	221.8	225.6	227.5	227.8
152.5°	201.5	207.1	212.0	215.8	219.0	220.4	220.5
155°	196.3	201.0	204.5	207.9	210.2	211.4	210.8
157.5°	191.0	194.9	197.7	200.1	202.0	202.5	202.5
160°	187.4	190.9	193.1	195.4	196.9	197.2	197.2
162.5°	184.2	187.2	188.9	191.1	192.2	192.4	192.2
165°	179.2	181.5	182.7	184.0	185.3	185.3	184.9
167.5°	174.8	176.3	177.5	178.0	178.7	178.6	178.3
170°	172.0	173.3	173.9	174.2	175.1	174.9	174.2
172.5°	169.5	170.5	170.9	171.2	171.7	171.3	170.9
175°	166.7	167.0	167.3	167.3	167.6	167.3	166.7
177.5°	164.6	164.9	164.9	164.9	164.9	164.6	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8

(END OF REPORT)