

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: P331287-935

Luminaire Tested: **SA2XXDIP-C485D330U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331287-935
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: SA2XXDIP-C485D330U935-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2948.1 lumens
Efficiency: N/A
Efficacy: 107.2 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

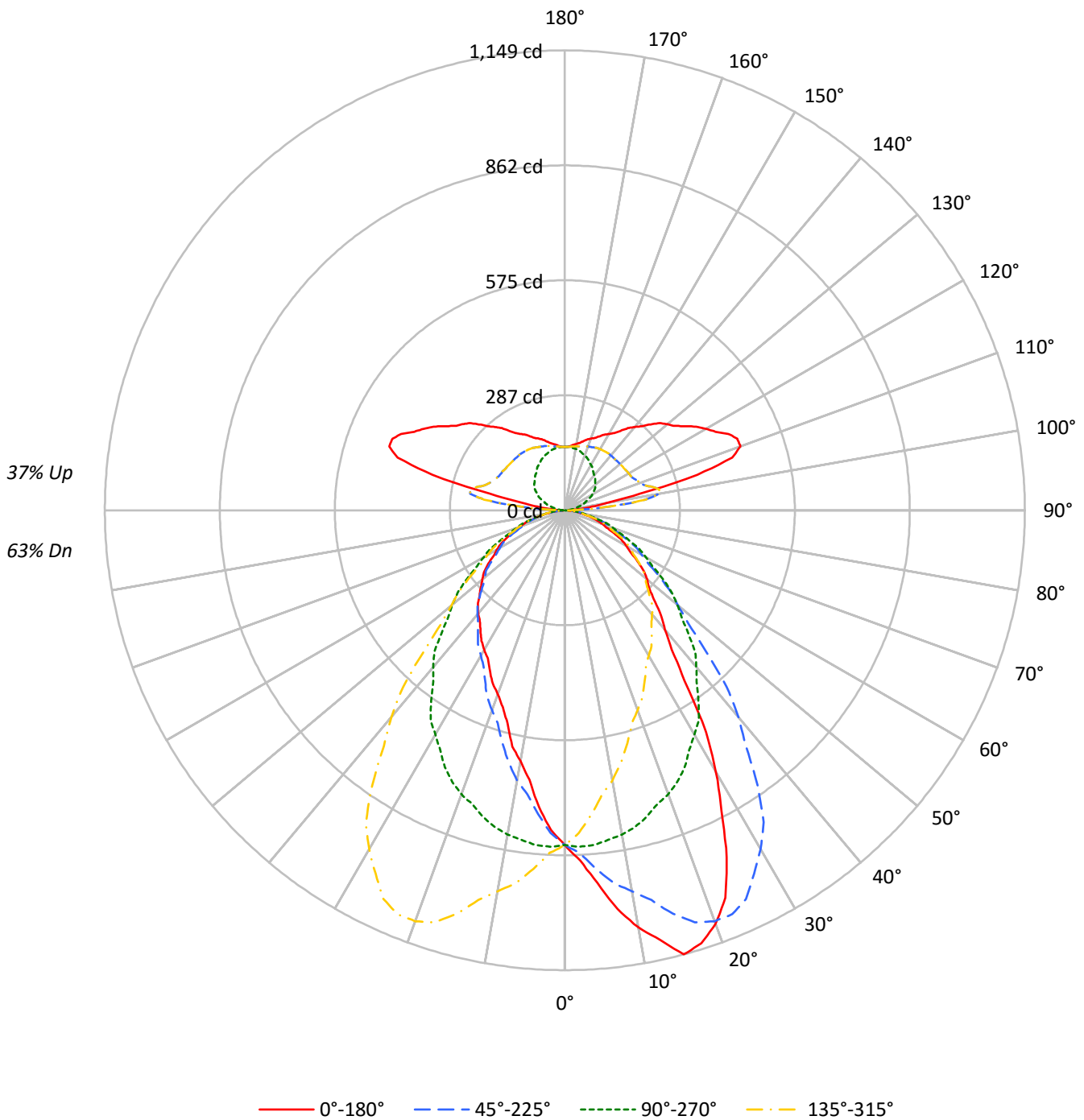
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	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	68	67	61	60	58	54				
2	93	85	79	74	87	80	75	71	71	67	64	62	59	57	54	52	50	46				
3	85	76	69	63	79	71	65	60	63	58	54	56	52	49	49	46	43	40				
4	78	67	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35				
5	72	60	52	47	67	57	50	45	51	45	41	45	41	37	40	36	33	31				
6	67	55	47	41	62	52	44	39	46	40	36	41	36	33	36	33	30	27				
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	33	30	27	24				
8	57	45	38	32	54	43	36	31	39	33	29	35	30	26	31	27	24	22				
9	54	42	34	29	50	39	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°	13508	13508	13508	13508
5°	15144	13598	12049	13598
10°	17354	13485	10427	13485
15°	19199	13237	9212	13237
20°	18907	12972	8399	12972
25°	17047	12618	7883	12618
30°	14087	12055	7506	12055
35°	10267	11466	7238	11466
40°	8201	10768	7088	10768
45°	7165	9965	6887	9965
50°	6737	9183	6752	9183
55°	6210	8391	6570	8391
60°	5690	7550	6290	7550
65°	5184	6793	6021	6793
70°	4707	6057	5618	6057
75°	4173	5234	4972	5234
80°	3589	4342	3998	4342
85°	3223	3223	2371	3223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	2.7
10°-20°	231.6	7.9
20°-30°	336.2	11.4
30°-40°	354.8	12.0
40°-50°	314.1	10.7
50°-60°	250.7	8.5
60°-70°	170.4	5.8
70°-80°	87.4	3.0
80°-90°	22.5	0.8
90°-100°	63.3	2.1
100°-110°	214.7	7.3
110°-120°	228.0	7.7
120°-130°	187.7	6.4
130°-140°	150.7	5.1
140°-150°	113.9	3.9
150°-160°	80.1	2.7
160°-170°	47.1	1.6
170°-180°	15.3	0.5
0°-30°	647.5	22.0
0°-40°	1002.3	34.0
0°-60°	1567.1	53.2
0°-90°	1847.3	62.7
90°-120°	505.9	17.2
90°-150°	958.3	32.5
90°-180°	1101.0	37.3
0°-180°	2948.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	837	837	837	837	837	
5°	934	839	743	839	934	93
15°	1149	792	551	792	1149	317
25°	957	708	442	708	957	432
35°	521	582	367	582	521	339
45°	314	436	302	436	314	247
55°	221	298	233	298	221	198
65°	136	178	158	178	136	135
75°	67	84	80	84	67	71
85°	17	17	13	17	17	19
90°	10	0	10	0	10	6
95°	35	11	35	11	35	45
105°	343	37	343	37	343	332
115°	451	65	451	65	451	442
125°	366	91	366	91	366	331
135°	303	107	303	107	303	236
145°	242	122	242	122	242	154
155°	204	139	204	139	204	95
165°	179	152	179	152	179	51
175°	161	158	161	158	161	16
180°	158	158	158	158	158	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	875.3	875.6	876.0	871.9	871.4	871.4	867.8	864.7	861.1	856.2	856.7
5°	934.4	938.0	939.3	935.4	929.6	928.9	923.5	914.5	906.1	899.4	894.6
7.5°	1005.0	1006.4	1003.3	998.2	993.9	986.2	976.0	966.0	952.1	939.3	929.8
10°	1058.5	1060.5	1055.0	1047.6	1041.5	1032.5	1017.7	1002.5	984.3	966.6	952.4
12.5°	1099.2	1104.0	1096.9	1096.0	1085.5	1073.2	1055.5	1047.8	1022.1	997.5	982.2
15°	1148.6	1148.2	1148.9	1142.8	1135.1	1133.2	1114.5	1094.2	1057.9	1043.4	1018.3
17.5°	1134.3	1139.2	1141.4	1141.3	1141.2	1140.0	1133.9	1121.2	1102.9	1079.5	1050.6
20°	1100.4	1106.7	1107.8	1115.2	1119.3	1124.8	1127.0	1123.5	1112.2	1092.6	1067.6
22.5°	1047.8	1049.6	1052.7	1064.2	1073.2	1086.9	1094.1	1106.0	1101.6	1092.1	1071.2
25°	956.9	953.7	964.9	970.8	991.6	1013.5	1029.2	1046.6	1062.0	1071.4	1065.3
27.5°	847.7	842.9	859.8	875.1	892.1	915.8	940.3	969.3	993.4	1023.6	1034.0
30°	755.6	758.5	774.6	791.0	816.7	850.2	877.8	909.6	944.1	977.8	1001.3
32.5°	656.3	667.4	677.6	702.7	725.4	762.7	803.2	843.0	886.0	924.3	960.6
35°	520.9	533.7	547.9	566.3	598.1	635.1	674.6	728.3	786.9	839.2	882.4
37.5°	438.4	436.4	444.5	457.8	483.5	513.4	558.9	612.0	680.9	742.4	803.2
40°	389.1	387.8	393.6	405.8	425.4	447.3	487.2	533.7	597.8	673.0	745.4
42.5°	355.1	355.9	359.1	367.7	381.2	399.2	429.0	468.7	527.3	598.1	675.9
45°	313.8	316.1	319.6	323.8	331.5	346.3	363.0	391.3	437.6	496.8	573.3
47.5°	284.1	284.2	287.7	291.4	296.0	304.4	318.1	335.8	368.4	416.6	482.4
50°	268.2	265.9	268.5	271.4	276.2	282.0	291.0	307.7	329.6	368.5	423.4
52.5°	248.7	248.7	251.0	252.1	256.4	262.2	270.4	282.0	301.8	332.3	377.5
55°	220.6	222.2	223.5	225.4	229.3	233.4	239.9	247.6	263.0	285.9	319.3
57.5°	194.2	194.8	196.0	199.7	202.2	206.0	212.1	219.1	229.1	246.1	271.2
60°	176.2	176.2	178.7	180.4	183.6	187.4	192.3	199.1	208.0	221.9	242.1
62.5°	159.7	159.5	160.5	163.2	165.6	169.2	174.0	179.8	188.2	200.5	217.1
65°	135.7	135.1	137.0	137.6	140.2	143.7	147.6	153.7	160.5	169.4	184.3
67.5°	112.5	113.3	114.3	115.5	117.0	120.7	123.3	127.6	133.3	140.8	150.8
70°	99.7	99.7	99.7	100.7	102.5	104.5	107.1	110.6	116.1	122.5	131.5
72.5°	85.2	86.3	87.3	86.8	89.2	90.3	93.4	95.4	100.7	104.8	112.7
75°	66.9	66.9	66.9	68.4	69.5	70.4	72.3	74.3	76.9	82.0	86.2
77.5°	49.9	49.8	50.1	50.5	51.5	52.7	53.2	55.0	57.3	59.8	63.3
80°	38.6	39.3	39.5	40.2	40.2	40.8	41.2	43.4	45.0	46.7	48.9
82.5°	29.9	30.0	30.0	30.1	30.4	30.8	31.6	32.4	32.9	34.3	36.0
85°	17.4	17.0	17.0	17.7	17.4	17.4	18.0	18.7	18.7	18.9	20.0
87.5°	8.7	8.7	9.0	8.7	8.7	8.9	8.8	8.6	9.0	9.3	9.5
90°	10.1	10.1	10.1	10.1	10.1	9.7	9.1	9.7	10.1	10.3	10.1
92.5°	16.9	17.3	17.1	18.1	18.3	20.2	22.7	26.5	33.4	39.5	39.0
95°	34.7	34.4	35.3	37.7	41.7	48.4	61.1	79.7	104.4	119.2	105.6
97.5°	68.3	70.9	75.3	82.7	97.3	119.2	152.1	186.0	213.5	203.5	153.3
100°	108.9	114.4	123.2	136.3	161.5	198.4	240.0	277.8	284.1	240.3	165.5
102.5°	191.7	199.1	210.1	232.4	259.8	298.9	329.3	337.9	310.4	241.5	160.8
105°	342.9	347.1	360.2	379.0	398.0	407.9	404.0	369.6	306.3	225.4	151.8
107.5°	438.0	443.6	446.3	447.3	444.9	430.2	398.6	346.7	279.7	208.1	147.3
110°	466.7	467.0	464.3	458.5	445.4	420.4	381.5	327.0	262.9	199.8	146.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	466.1	464.5	459.3	449.7	431.5	402.9	361.3	309.0	251.2	194.5	146.5
115°	451.2	448.4	440.5	426.5	404.9	373.6	333.7	286.9	236.7	188.6	147.8
117.5°	424.3	422.0	413.7	398.9	376.9	347.5	311.3	270.2	227.6	185.7	150.1
120°	407.1	404.0	395.2	380.9	359.6	331.9	299.6	261.9	222.7	184.1	151.5
122.5°	389.0	386.5	378.7	364.5	345.4	320.5	289.9	255.4	218.5	183.0	153.2
125°	366.0	363.5	355.9	344.4	326.7	303.9	277.2	245.8	212.7	181.3	155.8
127.5°	345.8	343.8	337.3	326.4	311.0	290.0	264.8	236.3	207.2	180.3	158.3
130°	334.3	331.9	325.8	315.5	300.6	280.5	256.5	230.3	203.5	179.8	160.3
132.5°	322.4	320.2	314.6	304.3	289.6	270.8	248.7	224.5	200.6	179.5	162.3
135°	303.3	302.1	296.6	286.5	273.5	256.5	236.3	216.3	196.5	179.2	164.6
137.5°	284.6	282.8	277.9	269.3	257.4	242.5	226.6	209.8	193.6	179.1	166.7
140°	271.6	269.8	265.3	257.4	247.6	234.3	220.2	205.6	191.9	178.9	167.6
142.5°	258.7	258.4	254.3	247.1	237.9	226.7	214.6	202.2	190.3	178.9	168.3
145°	242.1	241.3	238.2	233.0	225.8	216.9	207.5	197.4	188.0	178.2	169.1
147.5°	228.3	227.6	225.6	221.4	215.4	209.0	201.6	193.7	185.7	177.2	169.4
150°	220.0	219.6	217.8	214.1	209.6	204.1	197.8	191.1	183.7	176.4	169.1
152.5°	212.9	212.8	211.5	208.4	204.7	200.0	194.6	188.4	182.0	175.2	168.7
155°	203.5	204.1	202.9	200.8	197.4	194.1	189.5	184.7	178.9	173.1	167.9
157.5°	195.5	195.5	195.0	193.2	190.9	188.2	184.4	180.4	175.9	170.9	166.5
160°	190.5	190.5	190.1	188.6	186.5	184.3	181.0	177.6	173.7	169.4	165.8
162.5°	185.5	185.8	185.5	184.5	182.4	180.7	177.9	175.0	171.8	168.2	165.1
165°	178.6	178.9	178.9	177.6	176.4	175.2	173.1	171.0	168.5	165.8	163.7
167.5°	172.1	172.5	172.5	171.9	171.3	170.2	168.8	167.1	165.4	163.7	162.3
170°	168.2	168.8	169.1	168.2	167.9	167.3	166.1	165.2	163.7	162.5	161.5
172.5°	165.1	165.4	165.7	165.3	165.0	164.6	163.7	163.0	162.0	161.0	160.6
175°	160.9	161.5	161.9	161.5	161.5	161.3	160.9	160.7	159.7	159.4	159.1
177.5°	158.4	158.9	159.2	159.2	159.2	159.2	158.9	158.9	158.4	158.2	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	858.5	856.4	855.1	850.6	846.4	842.3	841.0	841.5	835.9	830.5	828.2
5°	892.0	885.5	879.4	870.7	860.5	849.2	843.4	839.0	827.7	815.5	808.4
7.5°	922.0	912.7	901.0	884.7	869.7	852.0	840.7	830.8	814.2	797.0	786.5
10°	940.2	927.6	912.6	892.6	874.3	852.7	837.7	822.5	803.2	782.6	769.8
12.5°	955.9	939.0	924.1	898.5	876.8	849.9	832.0	810.7	790.4	765.9	753.3
15°	993.2	962.1	933.8	904.8	878.1	840.5	820.6	791.9	765.3	735.0	720.6
17.5°	1022.1	987.1	942.5	905.8	874.6	832.9	803.7	769.4	737.8	703.3	683.6
20°	1038.6	998.4	950.5	906.8	869.4	821.9	790.1	755.0	718.0	679.1	657.9
22.5°	1048.4	1006.2	958.7	902.9	859.2	812.9	772.8	734.4	696.9	655.0	632.7
25°	1051.5	1012.9	962.7	899.7	846.3	793.9	745.6	708.3	663.1	623.8	591.3
27.5°	1036.1	1008.5	960.3	893.6	831.5	770.2	716.4	674.2	626.3	583.8	551.0
30°	1017.4	1001.3	954.3	887.4	819.6	753.7	694.6	646.6	599.1	555.9	522.5
32.5°	988.3	984.8	943.6	878.7	807.0	732.9	671.7	623.2	570.5	528.1	496.3
35°	931.2	946.7	920.6	859.2	783.3	703.3	637.0	581.7	527.0	486.5	456.6
37.5°	854.7	893.0	886.2	830.5	751.2	671.0	597.8	540.0	487.9	447.0	417.7
40°	801.9	850.8	857.9	808.7	728.7	646.0	568.5	510.9	460.1	422.8	393.2
42.5°	745.4	802.5	821.9	782.5	704.0	619.7	542.3	482.7	432.4	396.1	369.9
45°	650.5	726.1	761.1	738.6	662.7	576.5	496.8	436.4	390.7	356.6	336.3
47.5°	561.8	644.4	691.6	683.5	616.8	531.5	452.7	394.7	350.3	323.0	304.9
50°	499.0	583.9	640.8	643.4	583.9	499.4	420.3	365.6	324.8	299.4	284.6
52.5°	444.5	525.6	587.6	601.2	547.2	465.9	391.2	336.8	300.8	277.5	264.2
55°	373.3	441.8	510.7	535.7	492.3	415.1	345.9	298.1	264.3	248.2	236.7
57.5°	310.4	367.5	431.0	458.7	432.0	365.9	301.1	259.5	232.1	218.0	209.1
60°	277.2	322.2	378.8	411.9	388.7	329.9	273.3	233.8	211.3	198.7	190.4
62.5°	246.3	286.2	334.0	364.3	351.7	296.2	245.6	210.6	191.2	179.4	173.4
65°	203.2	234.7	271.7	299.7	291.4	249.2	207.8	177.8	162.4	153.1	148.3
67.5°	167.3	190.1	215.8	240.2	233.5	203.6	170.4	147.1	135.5	127.5	124.7
70°	144.7	162.0	184.9	204.5	199.1	174.6	148.3	128.3	118.3	111.6	108.7
72.5°	123.1	137.3	154.8	170.8	167.1	146.8	124.8	109.8	102.1	95.9	93.5
75°	92.9	103.8	114.5	125.1	124.2	108.4	95.5	83.9	77.8	73.0	72.1
77.5°	68.6	74.7	82.0	88.3	86.5	77.5	67.4	60.8	56.3	53.0	52.5
80°	52.4	56.0	61.1	65.6	63.4	59.5	51.5	46.7	43.4	40.2	38.9
82.5°	38.0	41.6	44.6	47.1	45.4	41.8	36.8	33.5	31.6	29.4	28.8
85°	20.0	21.9	23.2	23.8	23.2	20.9	18.7	17.4	15.8	14.8	14.5
87.5°	9.4	9.0	8.6	9.0	8.1	7.9	6.7	5.7	5.7	5.6	5.3
90°	8.2	6.1	4.6	3.6	3.0	2.4	1.2	0.3	1.2	2.4	3.0
92.5°	30.4	20.7	13.8	10.9	8.9	7.6	5.3	3.7	5.3	7.6	8.9
95°	70.3	43.8	29.8	22.5	17.7	14.9	11.9	10.7	11.9	14.9	17.7
97.5°	94.7	57.8	40.2	31.9	26.3	22.2	18.9	17.3	18.9	22.2	26.3
100°	99.8	62.7	46.6	38.1	31.9	27.0	24.4	23.4	24.4	27.0	31.9
102.5°	100.0	67.1	52.2	43.7	37.3	32.5	29.7	29.0	29.7	32.5	37.3
105°	101.6	74.6	60.3	51.7	45.0	40.5	38.3	37.1	38.3	40.5	45.0
107.5°	105.8	82.2	68.4	59.8	53.1	48.9	46.8	45.9	46.8	48.9	53.1
110°	109.2	87.3	74.0	65.1	58.7	54.8	53.0	51.7	53.0	54.8	58.7



TEST NUMBER: P331287-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	112.9	92.2	79.3	70.2	64.1	60.4	58.3	57.1	58.3	60.4	64.1
115°	118.3	99.8	86.7	78.5	72.4	68.8	66.9	65.4	66.9	68.8	72.4
117.5°	124.2	106.8	94.7	86.2	80.3	77.1	75.3	74.0	75.3	77.1	80.3
120°	128.1	111.7	99.8	91.3	85.2	82.5	80.6	79.4	80.6	82.5	85.2
122.5°	131.5	116.2	105.1	96.3	90.3	87.3	85.5	84.6	85.5	87.3	90.3
125°	136.9	123.2	112.3	103.8	97.6	94.0	92.2	91.3	92.2	94.0	97.6
127.5°	142.0	129.7	119.0	110.2	104.4	100.4	97.8	96.6	97.8	100.4	104.4
130°	145.1	133.5	122.9	114.4	108.3	104.0	101.0	99.8	101.0	104.0	108.3
132.5°	148.3	137.0	126.8	118.3	111.9	107.5	104.2	102.7	104.2	107.5	111.9
135°	152.4	141.8	132.0	123.6	116.5	111.9	108.3	107.1	108.3	111.9	116.5
137.5°	155.6	145.7	136.0	128.1	121.2	116.3	112.7	111.2	112.7	116.3	121.2
140°	157.3	147.8	138.7	130.8	124.2	119.2	115.6	114.4	115.6	119.2	124.2
142.5°	158.8	149.6	140.7	133.3	126.8	121.9	118.6	117.5	118.6	121.9	126.8
145°	160.7	152.1	143.9	137.2	131.1	126.6	123.6	122.3	123.6	126.6	131.1
147.5°	161.7	154.2	146.5	140.5	135.4	131.2	128.3	127.4	128.3	131.2	135.4
150°	162.1	155.2	148.2	142.7	138.1	134.1	131.7	130.8	131.7	134.1	138.1
152.5°	162.4	156.1	149.8	144.9	140.5	137.1	134.7	134.2	134.7	137.1	140.5
155°	162.7	157.6	152.4	147.8	144.5	141.1	139.3	139.1	139.3	141.1	144.5
157.5°	162.7	158.6	154.2	150.4	147.7	144.8	143.4	143.0	143.4	144.8	147.7
160°	162.7	159.1	155.5	152.1	149.6	147.2	146.0	145.7	146.0	147.2	149.6
162.5°	162.5	159.4	156.2	153.6	151.4	149.5	148.2	148.4	148.2	149.5	151.4
165°	161.9	159.7	157.0	155.2	153.6	151.8	151.2	151.5	151.2	151.8	153.6
167.5°	161.4	159.6	157.6	156.5	155.4	154.2	153.7	154.0	153.7	154.2	155.4
170°	160.9	159.4	157.9	157.0	156.4	155.5	155.2	155.8	155.2	155.5	156.4
172.5°	160.2	159.2	158.2	157.5	157.1	156.2	156.4	156.7	156.4	156.2	157.1
175°	159.4	158.8	158.2	157.9	157.9	157.3	157.6	157.9	157.6	157.3	157.9
177.5°	158.9	158.4	158.2	158.2	158.2	157.7	157.9	158.4	157.9	157.7	158.2
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331287-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	825.6	824.1	818.6	815.8	811.2	806.8	804.0	805.3	806.3	805.8	805.0
5°	801.9	795.8	786.5	778.4	772.7	762.1	757.6	755.4	753.4	751.1	748.9
7.5°	773.8	764.1	750.8	739.3	728.5	715.3	707.8	703.3	698.6	693.5	689.1
10°	753.7	740.2	726.1	710.0	697.2	685.2	674.6	667.5	661.1	655.0	650.5
12.5°	732.6	717.0	699.6	677.6	663.4	646.4	644.8	632.3	622.2	618.5	613.2
15°	699.0	677.2	655.0	629.0	617.7	602.3	592.6	583.0	574.3	568.2	566.5
17.5°	660.9	632.6	610.5	591.9	573.4	557.6	548.7	541.0	533.8	525.6	524.6
20°	631.8	607.4	583.3	566.9	547.9	531.8	520.9	513.2	507.0	502.2	498.1
22.5°	604.3	577.6	555.5	537.5	518.8	505.8	497.2	489.8	484.7	479.4	475.4
25°	560.2	539.2	515.1	494.9	479.4	471.1	464.0	457.5	454.3	450.8	446.3
27.5°	521.5	498.3	475.7	460.0	446.4	439.0	434.0	429.6	426.6	424.6	422.0
30°	494.2	470.7	453.1	437.6	426.4	419.0	415.8	413.2	409.7	408.4	407.1
32.5°	468.0	446.9	431.7	418.4	407.6	402.8	399.8	397.5	394.8	393.5	390.9
35°	430.8	413.2	398.4	391.0	382.3	378.2	375.9	372.6	370.1	368.9	368.5
37.5°	396.0	380.6	370.8	361.4	357.7	355.1	352.1	349.8	349.0	348.9	348.5
40°	373.3	360.8	352.1	344.4	342.8	338.9	336.3	334.4	334.4	334.8	334.4
42.5°	352.8	341.5	333.8	327.2	325.3	323.0	320.4	320.3	320.8	321.8	320.8
45°	321.6	313.5	308.1	304.8	301.3	299.0	298.7	299.7	300.0	300.3	301.3
47.5°	292.8	287.5	282.6	279.1	277.5	277.1	276.7	278.4	279.9	280.5	282.0
50°	275.9	269.8	265.6	263.4	262.1	261.4	262.1	264.0	265.3	266.9	267.9
52.5°	256.8	252.5	249.7	247.9	247.4	247.8	247.9	250.1	252.2	252.7	253.2
55°	230.6	227.3	226.7	223.8	225.1	224.7	226.4	227.6	229.5	231.5	231.9
57.5°	204.3	201.7	200.0	200.3	200.6	202.1	203.4	205.7	207.8	209.7	210.0
60°	186.8	185.5	184.6	184.6	185.2	187.2	188.7	191.0	192.3	193.6	194.5
62.5°	170.9	169.6	168.6	169.1	170.8	171.9	173.8	175.0	176.3	177.6	178.1
65°	145.7	145.0	146.0	146.6	147.0	148.5	150.8	151.8	153.1	153.7	155.9
67.5°	122.4	122.6	122.4	123.4	125.2	125.6	127.7	130.0	130.3	131.5	132.9
70°	106.8	107.4	108.1	108.7	110.3	110.9	112.5	113.5	114.8	115.7	116.8
72.5°	92.4	92.5	93.2	93.0	94.4	95.7	97.1	98.1	99.4	100.6	101.5
75°	71.0	71.0	71.7	72.1	73.6	75.3	74.9	75.6	76.9	78.2	78.8
77.5°	51.9	51.2	51.9	52.2	52.7	54.1	54.3	55.3	56.7	56.3	57.0
80°	39.5	38.6	39.5	39.9	39.9	41.5	41.5	42.1	43.0	42.1	43.0
82.5°	28.2	27.8	28.5	28.6	29.1	29.1	29.6	29.8	30.7	30.3	30.7
85°	14.1	13.9	14.1	13.9	14.1	14.5	14.5	14.1	14.1	14.8	13.9
87.5°	5.1	5.0	5.1	5.5	5.6	5.4	5.1	5.0	4.9	4.5	4.6
90°	3.6	4.6	6.1	8.2	10.1	10.3	10.1	9.7	9.1	9.7	10.1
92.5°	10.9	13.8	20.7	30.4	39.0	39.5	33.4	26.5	22.7	20.2	18.3
95°	22.5	29.8	43.8	70.3	105.6	119.2	104.4	79.7	61.1	48.4	41.7
97.5°	31.9	40.2	57.8	94.7	153.3	203.5	213.5	186.0	152.1	119.2	97.3
100°	38.1	46.6	62.7	99.8	165.5	240.3	284.1	277.8	240.0	198.4	161.5
102.5°	43.7	52.2	67.1	100.0	160.8	241.5	310.4	337.9	329.3	298.9	259.8
105°	51.7	60.3	74.6	101.6	151.8	225.4	306.3	369.6	404.0	407.9	398.0
107.5°	59.8	68.4	82.2	105.8	147.3	208.1	279.7	346.7	398.6	430.2	444.9
110°	65.1	74.0	87.3	109.2	146.4	199.8	262.9	327.0	381.5	420.4	445.4



TEST NUMBER: P331287-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	70.2	79.3	92.2	112.9	146.5	194.5	251.2	309.0	361.3	402.9	431.5
115°	78.5	86.7	99.8	118.3	147.8	188.6	236.7	286.9	333.7	373.6	404.9
117.5°	86.2	94.7	106.8	124.2	150.1	185.7	227.6	270.2	311.3	347.5	376.9
120°	91.3	99.8	111.7	128.1	151.5	184.1	222.7	261.9	299.6	331.9	359.6
122.5°	96.3	105.1	116.2	131.5	153.2	183.0	218.5	255.4	289.9	320.5	345.4
125°	103.8	112.3	123.2	136.9	155.8	181.3	212.7	245.8	277.2	303.9	326.7
127.5°	110.2	119.0	129.7	142.0	158.3	180.3	207.2	236.3	264.8	290.0	311.0
130°	114.4	122.9	133.5	145.1	160.3	179.8	203.5	230.3	256.5	280.5	300.6
132.5°	118.3	126.8	137.0	148.3	162.3	179.5	200.6	224.5	248.7	270.8	289.6
135°	123.6	132.0	141.8	152.4	164.6	179.2	196.5	216.3	236.3	256.5	273.5
137.5°	128.1	136.0	145.7	155.6	166.7	179.1	193.6	209.8	226.6	242.5	257.4
140°	130.8	138.7	147.8	157.3	167.6	178.9	191.9	205.6	220.2	234.3	247.6
142.5°	133.3	140.7	149.6	158.8	168.3	178.9	190.3	202.2	214.6	226.7	237.9
145°	137.2	143.9	152.1	160.7	169.1	178.2	188.0	197.4	207.5	216.9	225.8
147.5°	140.5	146.5	154.2	161.7	169.4	177.2	185.7	193.7	201.6	209.0	215.4
150°	142.7	148.2	155.2	162.1	169.1	176.4	183.7	191.1	197.8	204.1	209.6
152.5°	144.9	149.8	156.1	162.4	168.7	175.2	182.0	188.4	194.6	200.0	204.7
155°	147.8	152.4	157.6	162.7	167.9	173.1	178.9	184.7	189.5	194.1	197.4
157.5°	150.4	154.2	158.6	162.7	166.5	170.9	175.9	180.4	184.4	188.2	190.9
160°	152.1	155.5	159.1	162.7	165.8	169.4	173.7	177.6	181.0	184.3	186.5
162.5°	153.6	156.2	159.4	162.5	165.1	168.2	171.8	175.0	177.9	180.7	182.4
165°	155.2	157.0	159.7	161.9	163.7	165.8	168.5	171.0	173.1	175.2	176.4
167.5°	156.5	157.6	159.6	161.4	162.3	163.7	165.4	167.1	168.8	170.2	171.3
170°	157.0	157.9	159.4	160.9	161.5	162.5	163.7	165.2	166.1	167.3	167.9
172.5°	157.5	158.2	159.2	160.2	160.6	161.0	162.0	163.0	163.7	164.6	165.0
175°	157.9	158.2	158.8	159.4	159.1	159.4	159.7	160.7	160.9	161.3	161.5
177.5°	158.2	158.2	158.4	158.9	158.4	158.2	158.4	158.9	158.9	159.2	159.2
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331287-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	802.5	801.9	801.9	799.6	801.9	801.9	802.5	805.0	805.8	806.3	805.3
5°	744.4	743.4	741.8	743.4	741.8	743.4	744.4	748.9	751.1	753.4	755.4
7.5°	687.0	683.1	682.5	678.7	682.5	683.1	687.0	689.1	693.5	698.6	703.3
10°	645.1	642.5	642.1	636.0	642.1	642.5	645.1	650.5	655.0	661.1	667.5
12.5°	613.1	606.9	608.2	604.7	608.2	606.9	613.1	613.2	618.5	622.2	632.3
15°	557.8	557.8	556.6	551.1	556.6	557.8	557.8	566.5	568.2	574.3	583.0
17.5°	518.2	517.5	514.4	516.0	514.4	517.5	518.2	524.6	525.6	533.8	541.0
20°	494.6	492.6	488.8	488.8	488.8	492.6	494.6	498.1	502.2	507.0	513.2
22.5°	472.2	472.0	468.0	469.2	468.0	472.0	472.2	475.4	479.4	484.7	489.8
25°	446.0	443.4	441.5	442.5	441.5	443.4	446.0	446.3	450.8	454.3	457.5
27.5°	421.2	419.7	419.7	417.0	419.7	419.7	421.2	422.0	424.6	426.6	429.6
30°	406.7	403.6	404.2	402.6	404.2	403.6	406.7	407.1	408.4	409.7	413.2
32.5°	390.3	389.2	388.5	387.1	388.5	389.2	390.3	390.9	393.5	394.8	397.5
35°	367.8	368.2	366.5	367.2	366.5	368.2	367.8	368.5	368.9	370.1	372.6
37.5°	348.3	349.3	348.5	348.7	348.5	349.3	348.3	348.5	348.9	349.0	349.8
40°	335.4	335.4	335.4	336.3	335.4	335.4	335.4	334.4	334.8	334.4	334.4
42.5°	323.0	322.5	322.0	321.9	322.0	322.5	323.0	320.8	321.8	320.8	320.3
45°	302.0	302.9	303.2	301.6	303.2	302.9	302.0	301.3	300.3	300.0	299.7
47.5°	282.8	282.9	282.8	284.2	282.8	282.9	282.8	282.0	280.5	279.9	278.4
50°	269.5	268.8	269.5	268.8	269.5	268.8	269.5	267.9	266.9	265.3	264.0
52.5°	255.3	255.5	255.0	254.9	255.0	255.5	255.3	253.2	252.7	252.2	250.1
55°	233.2	233.8	233.4	233.4	233.4	233.8	233.2	231.9	231.5	229.5	227.6
57.5°	210.2	210.8	211.2	209.7	211.2	210.8	210.2	210.0	209.7	207.8	205.7
60°	194.2	195.8	195.5	194.8	195.5	195.8	194.2	194.5	193.6	192.3	191.0
62.5°	179.5	180.1	180.0	179.9	180.0	180.1	179.5	178.1	177.6	176.3	175.0
65°	156.9	157.6	156.6	157.6	156.6	157.6	156.9	155.9	153.7	153.1	151.8
67.5°	132.5	132.8	133.5	133.9	133.5	132.8	132.5	132.9	131.5	130.3	130.0
70°	117.4	117.0	118.0	119.0	118.0	117.0	117.4	116.8	115.7	114.8	113.5
72.5°	101.4	102.1	101.8	102.5	101.8	102.1	101.4	101.5	100.6	99.4	98.1
75°	78.2	79.1	78.8	79.7	78.8	79.1	78.2	78.8	78.2	76.9	75.6
77.5°	56.5	56.6	56.5	57.0	56.5	56.6	56.5	57.0	56.3	56.7	55.3
80°	43.0	42.4	41.8	43.0	41.8	42.4	43.0	43.0	42.1	43.0	42.1
82.5°	30.0	30.4	29.7	29.7	29.7	30.4	30.0	30.7	30.3	30.7	29.8
85°	13.9	13.5	12.8	12.8	12.8	13.5	13.9	13.9	14.8	14.1	14.1
87.5°	4.6	4.3	4.3	4.0	4.3	4.3	4.6	4.6	4.5	4.9	5.0
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	9.7	9.1	9.7
92.5°	18.1	17.1	17.3	16.9	17.3	17.1	18.1	18.3	20.2	22.7	26.5
95°	37.7	35.3	34.4	34.7	34.4	35.3	37.7	41.7	48.4	61.1	79.7
97.5°	82.7	75.3	70.9	68.3	70.9	75.3	82.7	97.3	119.2	152.1	186.0
100°	136.3	123.2	114.4	108.9	114.4	123.2	136.3	161.5	198.4	240.0	277.8
102.5°	232.4	210.1	199.1	191.7	199.1	210.1	232.4	259.8	298.9	329.3	337.9
105°	379.0	360.2	347.1	342.9	347.1	360.2	379.0	398.0	407.9	404.0	369.6
107.5°	447.3	446.3	443.6	438.0	443.6	446.3	447.3	444.9	430.2	398.6	346.7
110°	458.5	464.3	467.0	466.7	467.0	464.3	458.5	445.4	420.4	381.5	327.0



TEST NUMBER: P331287-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	449.7	459.3	464.5	466.1	464.5	459.3	449.7	431.5	402.9	361.3	309.0
115°	426.5	440.5	448.4	451.2	448.4	440.5	426.5	404.9	373.6	333.7	286.9
117.5°	398.9	413.7	422.0	424.3	422.0	413.7	398.9	376.9	347.5	311.3	270.2
120°	380.9	395.2	404.0	407.1	404.0	395.2	380.9	359.6	331.9	299.6	261.9
122.5°	364.5	378.7	386.5	389.0	386.5	378.7	364.5	345.4	320.5	289.9	255.4
125°	344.4	355.9	363.5	366.0	363.5	355.9	344.4	326.7	303.9	277.2	245.8
127.5°	326.4	337.3	343.8	345.8	343.8	337.3	326.4	311.0	290.0	264.8	236.3
130°	315.5	325.8	331.9	334.3	331.9	325.8	315.5	300.6	280.5	256.5	230.3
132.5°	304.3	314.6	320.2	322.4	320.2	314.6	304.3	289.6	270.8	248.7	224.5
135°	286.5	296.6	302.1	303.3	302.1	296.6	286.5	273.5	256.5	236.3	216.3
137.5°	269.3	277.9	282.8	284.6	282.8	277.9	269.3	257.4	242.5	226.6	209.8
140°	257.4	265.3	269.8	271.6	269.8	265.3	257.4	247.6	234.3	220.2	205.6
142.5°	247.1	254.3	258.4	258.7	258.4	254.3	247.1	237.9	226.7	214.6	202.2
145°	233.0	238.2	241.3	242.1	241.3	238.2	233.0	225.8	216.9	207.5	197.4
147.5°	221.4	225.6	227.6	228.3	227.6	225.6	221.4	215.4	209.0	201.6	193.7
150°	214.1	217.8	219.6	220.0	219.6	217.8	214.1	209.6	204.1	197.8	191.1
152.5°	208.4	211.5	212.8	212.9	212.8	211.5	208.4	204.7	200.0	194.6	188.4
155°	200.8	202.9	204.1	203.5	204.1	202.9	200.8	197.4	194.1	189.5	184.7
157.5°	193.2	195.0	195.5	195.5	195.5	195.0	193.2	190.9	188.2	184.4	180.4
160°	188.6	190.1	190.5	190.5	190.5	190.1	188.6	186.5	184.3	181.0	177.6
162.5°	184.5	185.5	185.8	185.5	185.8	185.5	184.5	182.4	180.7	177.9	175.0
165°	177.6	178.9	178.9	178.6	178.9	178.9	177.6	176.4	175.2	173.1	171.0
167.5°	171.9	172.5	172.5	172.1	172.5	172.5	171.9	171.3	170.2	168.8	167.1
170°	168.2	169.1	168.8	168.2	168.8	169.1	168.2	167.9	167.3	166.1	165.2
172.5°	165.3	165.7	165.4	165.1	165.4	165.7	165.3	165.0	164.6	163.7	163.0
175°	161.5	161.9	161.5	160.9	161.5	161.9	161.5	161.5	161.3	160.9	160.7
177.5°	159.2	159.2	158.9	158.4	158.9	159.2	159.2	159.2	159.2	158.9	158.9
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331287-935
 CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	804.0	806.8	811.2	815.8	818.6	824.1	825.6	828.2	830.5	835.9	841.5
5°	757.6	762.1	772.7	778.4	786.5	795.8	801.9	808.4	815.5	827.7	839.0
7.5°	707.8	715.3	728.5	739.3	750.8	764.1	773.8	786.5	797.0	814.2	830.8
10°	674.6	685.2	697.2	710.0	726.1	740.2	753.7	769.8	782.6	803.2	822.5
12.5°	644.8	646.4	663.4	677.6	699.6	717.0	732.6	753.3	765.9	790.4	810.7
15°	592.6	602.3	617.7	629.0	655.0	677.2	699.0	720.6	735.0	765.3	791.9
17.5°	548.7	557.6	573.4	591.9	610.5	632.6	660.9	683.6	703.3	737.8	769.4
20°	520.9	531.8	547.9	566.9	583.3	607.4	631.8	657.9	679.1	718.0	755.0
22.5°	497.2	505.8	518.8	537.5	555.5	577.6	604.3	632.7	655.0	696.9	734.4
25°	464.0	471.1	479.4	494.9	515.1	539.2	560.2	591.3	623.8	663.1	708.3
27.5°	434.0	439.0	446.4	460.0	475.7	498.3	521.5	551.0	583.8	626.3	674.2
30°	415.8	419.0	426.4	437.6	453.1	470.7	494.2	522.5	555.9	599.1	646.6
32.5°	399.8	402.8	407.6	418.4	431.7	446.9	468.0	496.3	528.1	570.5	623.2
35°	375.9	378.2	382.3	391.0	398.4	413.2	430.8	456.6	486.5	527.0	581.7
37.5°	352.1	355.1	357.7	361.4	370.8	380.6	396.0	417.7	447.0	487.9	540.0
40°	336.3	338.9	342.8	344.4	352.1	360.8	373.3	393.2	422.8	460.1	510.9
42.5°	320.4	323.0	325.3	327.2	333.8	341.5	352.8	369.9	396.1	432.4	482.7
45°	298.7	299.0	301.3	304.8	308.1	313.5	321.6	336.3	356.6	390.7	436.4
47.5°	276.7	277.1	277.5	279.1	282.6	287.5	292.8	304.9	323.0	350.3	394.7
50°	262.1	261.4	262.1	263.4	265.6	269.8	275.9	284.6	299.4	324.8	365.6
52.5°	247.9	247.8	247.4	247.9	249.7	252.5	256.8	264.2	277.5	300.8	336.8
55°	226.4	224.7	225.1	223.8	226.7	227.3	230.6	236.7	248.2	264.3	298.1
57.5°	203.4	202.1	200.6	200.3	200.0	201.7	204.3	209.1	218.0	232.1	259.5
60°	188.7	187.2	185.2	184.6	184.6	185.5	186.8	190.4	198.7	211.3	233.8
62.5°	173.8	171.9	170.8	169.1	168.6	169.6	170.9	173.4	179.4	191.2	210.6
65°	150.8	148.5	147.0	146.6	146.0	145.0	145.7	148.3	153.1	162.4	177.8
67.5°	127.7	125.6	125.2	123.4	122.4	122.6	122.4	124.7	127.5	135.5	147.1
70°	112.5	110.9	110.3	108.7	108.1	107.4	106.8	108.7	111.6	118.3	128.3
72.5°	97.1	95.7	94.4	93.0	93.2	92.5	92.4	93.5	95.9	102.1	109.8
75°	74.9	75.3	73.6	72.1	71.7	71.0	71.0	72.1	73.0	77.8	83.9
77.5°	54.3	54.1	52.7	52.2	51.9	51.2	51.9	52.5	53.0	56.3	60.8
80°	41.5	41.5	39.9	39.9	39.5	38.6	39.5	38.9	40.2	43.4	46.7
82.5°	29.6	29.1	29.1	28.6	28.5	27.8	28.2	28.8	29.4	31.6	33.5
85°	14.5	14.5	14.1	13.9	14.1	13.9	14.1	14.5	14.8	15.8	17.4
87.5°	5.1	5.4	5.6	5.5	5.1	5.0	5.1	5.3	5.6	5.7	5.7
90°	10.1	10.3	10.1	8.2	6.1	4.6	3.6	3.0	2.4	1.2	0.3
92.5°	33.4	39.5	39.0	30.4	20.7	13.8	10.9	8.9	7.6	5.3	3.7
95°	104.4	119.2	105.6	70.3	43.8	29.8	22.5	17.7	14.9	11.9	10.7
97.5°	213.5	203.5	153.3	94.7	57.8	40.2	31.9	26.3	22.2	18.9	17.3
100°	284.1	240.3	165.5	99.8	62.7	46.6	38.1	31.9	27.0	24.4	23.4
102.5°	310.4	241.5	160.8	100.0	67.1	52.2	43.7	37.3	32.5	29.7	29.0
105°	306.3	225.4	151.8	101.6	74.6	60.3	51.7	45.0	40.5	38.3	37.1
107.5°	279.7	208.1	147.3	105.8	82.2	68.4	59.8	53.1	48.9	46.8	45.9
110°	262.9	199.8	146.4	109.2	87.3	74.0	65.1	58.7	54.8	53.0	51.7



TEST NUMBER: P331287-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	251.2	194.5	146.5	112.9	92.2	79.3	70.2	64.1	60.4	58.3	57.1
115°	236.7	188.6	147.8	118.3	99.8	86.7	78.5	72.4	68.8	66.9	65.4
117.5°	227.6	185.7	150.1	124.2	106.8	94.7	86.2	80.3	77.1	75.3	74.0
120°	222.7	184.1	151.5	128.1	111.7	99.8	91.3	85.2	82.5	80.6	79.4
122.5°	218.5	183.0	153.2	131.5	116.2	105.1	96.3	90.3	87.3	85.5	84.6
125°	212.7	181.3	155.8	136.9	123.2	112.3	103.8	97.6	94.0	92.2	91.3
127.5°	207.2	180.3	158.3	142.0	129.7	119.0	110.2	104.4	100.4	97.8	96.6
130°	203.5	179.8	160.3	145.1	133.5	122.9	114.4	108.3	104.0	101.0	99.8
132.5°	200.6	179.5	162.3	148.3	137.0	126.8	118.3	111.9	107.5	104.2	102.7
135°	196.5	179.2	164.6	152.4	141.8	132.0	123.6	116.5	111.9	108.3	107.1
137.5°	193.6	179.1	166.7	155.6	145.7	136.0	128.1	121.2	116.3	112.7	111.2
140°	191.9	178.9	167.6	157.3	147.8	138.7	130.8	124.2	119.2	115.6	114.4
142.5°	190.3	178.9	168.3	158.8	149.6	140.7	133.3	126.8	121.9	118.6	117.5
145°	188.0	178.2	169.1	160.7	152.1	143.9	137.2	131.1	126.6	123.6	122.3
147.5°	185.7	177.2	169.4	161.7	154.2	146.5	140.5	135.4	131.2	128.3	127.4
150°	183.7	176.4	169.1	162.1	155.2	148.2	142.7	138.1	134.1	131.7	130.8
152.5°	182.0	175.2	168.7	162.4	156.1	149.8	144.9	140.5	137.1	134.7	134.2
155°	178.9	173.1	167.9	162.7	157.6	152.4	147.8	144.5	141.1	139.3	139.1
157.5°	175.9	170.9	166.5	162.7	158.6	154.2	150.4	147.7	144.8	143.4	143.0
160°	173.7	169.4	165.8	162.7	159.1	155.5	152.1	149.6	147.2	146.0	145.7
162.5°	171.8	168.2	165.1	162.5	159.4	156.2	153.6	151.4	149.5	148.2	148.4
165°	168.5	165.8	163.7	161.9	159.7	157.0	155.2	153.6	151.8	151.2	151.5
167.5°	165.4	163.7	162.3	161.4	159.6	157.6	156.5	155.4	154.2	153.7	154.0
170°	163.7	162.5	161.5	160.9	159.4	157.9	157.0	156.4	155.5	155.2	155.8
172.5°	162.0	161.0	160.6	160.2	159.2	158.2	157.5	157.1	156.2	156.4	156.7
175°	159.7	159.4	159.1	159.4	158.8	158.2	157.9	157.9	157.3	157.6	157.9
177.5°	158.4	158.2	158.4	158.9	158.4	158.2	158.2	158.2	157.7	157.9	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331287-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	841.0	842.3	846.4	850.6	855.1	856.4	858.5	856.7	856.2	861.1	864.7
5°	843.4	849.2	860.5	870.7	879.4	885.5	892.0	894.6	899.4	906.1	914.5
7.5°	840.7	852.0	869.7	884.7	901.0	912.7	922.0	929.8	939.3	952.1	966.0
10°	837.7	852.7	874.3	892.6	912.6	927.6	940.2	952.4	966.6	984.3	1002.5
12.5°	832.0	849.9	876.8	898.5	924.1	939.0	955.9	982.2	997.5	1022.1	1047.8
15°	820.6	840.5	878.1	904.8	933.8	962.1	993.2	1018.3	1043.4	1057.9	1094.2
17.5°	803.7	832.9	874.6	905.8	942.5	987.1	1022.1	1050.6	1079.5	1102.9	1121.2
20°	790.1	821.9	869.4	906.8	950.5	998.4	1038.6	1067.6	1092.6	1112.2	1123.5
22.5°	772.8	812.9	859.2	902.9	958.7	1006.2	1048.4	1071.2	1092.1	1101.6	1106.0
25°	745.6	793.9	846.3	899.7	962.7	1012.9	1051.5	1065.3	1071.4	1062.0	1046.6
27.5°	716.4	770.2	831.5	893.6	960.3	1008.5	1036.1	1034.0	1023.6	993.4	969.3
30°	694.6	753.7	819.6	887.4	954.3	1001.3	1017.4	1001.3	977.8	944.1	909.6
32.5°	671.7	732.9	807.0	878.7	943.6	984.8	988.3	960.6	924.3	886.0	843.0
35°	637.0	703.3	783.3	859.2	920.6	946.7	931.2	882.4	839.2	786.9	728.3
37.5°	597.8	671.0	751.2	830.5	886.2	893.0	854.7	803.2	742.4	680.9	612.0
40°	568.5	646.0	728.7	808.7	857.9	850.8	801.9	745.4	673.0	597.8	533.7
42.5°	542.3	619.7	704.0	782.5	821.9	802.5	745.4	675.9	598.1	527.3	468.7
45°	496.8	576.5	662.7	738.6	761.1	726.1	650.5	573.3	496.8	437.6	391.3
47.5°	452.7	531.5	616.8	683.5	691.6	644.4	561.8	482.4	416.6	368.4	335.8
50°	420.3	499.4	583.9	643.4	640.8	583.9	499.0	423.4	368.5	329.6	307.7
52.5°	391.2	465.9	547.2	601.2	587.6	525.6	444.5	377.5	332.3	301.8	282.0
55°	345.9	415.1	492.3	535.7	510.7	441.8	373.3	319.3	285.9	263.0	247.6
57.5°	301.1	365.9	432.0	458.7	431.0	367.5	310.4	271.2	246.1	229.1	219.1
60°	273.3	329.9	388.7	411.9	378.8	322.2	277.2	242.1	221.9	208.0	199.1
62.5°	245.6	296.2	351.7	364.3	334.0	286.2	246.3	217.1	200.5	188.2	179.8
65°	207.8	249.2	291.4	299.7	271.7	234.7	203.2	184.3	169.4	160.5	153.7
67.5°	170.4	203.6	233.5	240.2	215.8	190.1	167.3	150.8	140.8	133.3	127.6
70°	148.3	174.6	199.1	204.5	184.9	162.0	144.7	131.5	122.5	116.1	110.6
72.5°	124.8	146.8	167.1	170.8	154.8	137.3	123.1	112.7	104.8	100.7	95.4
75°	95.5	108.4	124.2	125.1	114.5	103.8	92.9	86.2	82.0	76.9	74.3
77.5°	67.4	77.5	86.5	88.3	82.0	74.7	68.6	63.3	59.8	57.3	55.0
80°	51.5	59.5	63.4	65.6	61.1	56.0	52.4	48.9	46.7	45.0	43.4
82.5°	36.8	41.8	45.4	47.1	44.6	41.6	38.0	36.0	34.3	32.9	32.4
85°	18.7	20.9	23.2	23.8	23.2	21.9	20.0	20.0	18.9	18.7	18.7
87.5°	6.7	7.9	8.1	9.0	8.6	9.0	9.4	9.5	9.3	9.0	8.6
90°	1.2	2.4	3.0	3.6	4.6	6.1	8.2	10.1	10.3	10.1	9.7
92.5°	5.3	7.6	8.9	10.9	13.8	20.7	30.4	39.0	39.5	33.4	26.5
95°	11.9	14.9	17.7	22.5	29.8	43.8	70.3	105.6	119.2	104.4	79.7
97.5°	18.9	22.2	26.3	31.9	40.2	57.8	94.7	153.3	203.5	213.5	186.0
100°	24.4	27.0	31.9	38.1	46.6	62.7	99.8	165.5	240.3	284.1	277.8
102.5°	29.7	32.5	37.3	43.7	52.2	67.1	100.0	160.8	241.5	310.4	337.9
105°	38.3	40.5	45.0	51.7	60.3	74.6	101.6	151.8	225.4	306.3	369.6
107.5°	46.8	48.9	53.1	59.8	68.4	82.2	105.8	147.3	208.1	279.7	346.7
110°	53.0	54.8	58.7	65.1	74.0	87.3	109.2	146.4	199.8	262.9	327.0



TEST NUMBER: P331287-935

CATALOG NUMBER: SA2XXDIP-C485D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	58.3	60.4	64.1	70.2	79.3	92.2	112.9	146.5	194.5	251.2	309.0
115°	66.9	68.8	72.4	78.5	86.7	99.8	118.3	147.8	188.6	236.7	286.9
117.5°	75.3	77.1	80.3	86.2	94.7	106.8	124.2	150.1	185.7	227.6	270.2
120°	80.6	82.5	85.2	91.3	99.8	111.7	128.1	151.5	184.1	222.7	261.9
122.5°	85.5	87.3	90.3	96.3	105.1	116.2	131.5	153.2	183.0	218.5	255.4
125°	92.2	94.0	97.6	103.8	112.3	123.2	136.9	155.8	181.3	212.7	245.8
127.5°	97.8	100.4	104.4	110.2	119.0	129.7	142.0	158.3	180.3	207.2	236.3
130°	101.0	104.0	108.3	114.4	122.9	133.5	145.1	160.3	179.8	203.5	230.3
132.5°	104.2	107.5	111.9	118.3	126.8	137.0	148.3	162.3	179.5	200.6	224.5
135°	108.3	111.9	116.5	123.6	132.0	141.8	152.4	164.6	179.2	196.5	216.3
137.5°	112.7	116.3	121.2	128.1	136.0	145.7	155.6	166.7	179.1	193.6	209.8
140°	115.6	119.2	124.2	130.8	138.7	147.8	157.3	167.6	178.9	191.9	205.6
142.5°	118.6	121.9	126.8	133.3	140.7	149.6	158.8	168.3	178.9	190.3	202.2
145°	123.6	126.6	131.1	137.2	143.9	152.1	160.7	169.1	178.2	188.0	197.4
147.5°	128.3	131.2	135.4	140.5	146.5	154.2	161.7	169.4	177.2	185.7	193.7
150°	131.7	134.1	138.1	142.7	148.2	155.2	162.1	169.1	176.4	183.7	191.1
152.5°	134.7	137.1	140.5	144.9	149.8	156.1	162.4	168.7	175.2	182.0	188.4
155°	139.3	141.1	144.5	147.8	152.4	157.6	162.7	167.9	173.1	178.9	184.7
157.5°	143.4	144.8	147.7	150.4	154.2	158.6	162.7	166.5	170.9	175.9	180.4
160°	146.0	147.2	149.6	152.1	155.5	159.1	162.7	165.8	169.4	173.7	177.6
162.5°	148.2	149.5	151.4	153.6	156.2	159.4	162.5	165.1	168.2	171.8	175.0
165°	151.2	151.8	153.6	155.2	157.0	159.7	161.9	163.7	165.8	168.5	171.0
167.5°	153.7	154.2	155.4	156.5	157.6	159.6	161.4	162.3	163.7	165.4	167.1
170°	155.2	155.5	156.4	157.0	157.9	159.4	160.9	161.5	162.5	163.7	165.2
172.5°	156.4	156.2	157.1	157.5	158.2	159.2	160.2	160.6	161.0	162.0	163.0
175°	157.6	157.3	157.9	157.9	158.2	158.8	159.4	159.1	159.4	159.7	160.7
177.5°	157.9	157.7	158.2	158.2	158.2	158.4	158.9	158.4	158.2	158.4	158.9
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	867.8	871.4	871.4	871.9	876.0	875.6	875.3
5°	923.5	928.9	929.6	935.4	939.3	938.0	934.4
7.5°	976.0	986.2	993.9	998.2	1003.3	1006.4	1005.0
10°	1017.7	1032.5	1041.5	1047.6	1055.0	1060.5	1058.5
12.5°	1055.5	1073.2	1085.5	1096.0	1096.9	1104.0	1099.2
15°	1114.5	1133.2	1135.1	1142.8	1148.9	1148.2	1148.6
17.5°	1133.9	1140.0	1141.2	1141.3	1141.4	1139.2	1134.3
20°	1127.0	1124.8	1119.3	1115.2	1107.8	1106.7	1100.4
22.5°	1094.1	1086.9	1073.2	1064.2	1052.7	1049.6	1047.8
25°	1029.2	1013.5	991.6	970.8	964.9	953.7	956.9
27.5°	940.3	915.8	892.1	875.1	859.8	842.9	847.7
30°	877.8	850.2	816.7	791.0	774.6	758.5	755.6
32.5°	803.2	762.7	725.4	702.7	677.6	667.4	656.3
35°	674.6	635.1	598.1	566.3	547.9	533.7	520.9
37.5°	558.9	513.4	483.5	457.8	444.5	436.4	438.4
40°	487.2	447.3	425.4	405.8	393.6	387.8	389.1
42.5°	429.0	399.2	381.2	367.7	359.1	355.9	355.1
45°	363.0	346.3	331.5	323.8	319.6	316.1	313.8
47.5°	318.1	304.4	296.0	291.4	287.7	284.2	284.1
50°	291.0	282.0	276.2	271.4	268.5	265.9	268.2
52.5°	270.4	262.2	256.4	252.1	251.0	248.7	248.7
55°	239.9	233.4	229.3	225.4	223.5	222.2	220.6
57.5°	212.1	206.0	202.2	199.7	196.0	194.8	194.2
60°	192.3	187.4	183.6	180.4	178.7	176.2	176.2
62.5°	174.0	169.2	165.6	163.2	160.5	159.5	159.7
65°	147.6	143.7	140.2	137.6	137.0	135.1	135.7
67.5°	123.3	120.7	117.0	115.5	114.3	113.3	112.5
70°	107.1	104.5	102.5	100.7	99.7	99.7	99.7
72.5°	93.4	90.3	89.2	86.8	87.3	86.3	85.2
75°	72.3	70.4	69.5	68.4	66.9	66.9	66.9
77.5°	53.2	52.7	51.5	50.5	50.1	49.8	49.9
80°	41.2	40.8	40.2	40.2	39.5	39.3	38.6
82.5°	31.6	30.8	30.4	30.1	30.0	30.0	29.9
85°	18.0	17.4	17.4	17.7	17.0	17.0	17.4
87.5°	8.8	8.9	8.7	8.7	9.0	8.7	8.7
90°	9.1	9.7	10.1	10.1	10.1	10.1	10.1
92.5°	22.7	20.2	18.3	18.1	17.1	17.3	16.9
95°	61.1	48.4	41.7	37.7	35.3	34.4	34.7
97.5°	152.1	119.2	97.3	82.7	75.3	70.9	68.3
100°	240.0	198.4	161.5	136.3	123.2	114.4	108.9
102.5°	329.3	298.9	259.8	232.4	210.1	199.1	191.7
105°	404.0	407.9	398.0	379.0	360.2	347.1	342.9
107.5°	398.6	430.2	444.9	447.3	446.3	443.6	438.0
110°	381.5	420.4	445.4	458.5	464.3	467.0	466.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	361.3	402.9	431.5	449.7	459.3	464.5	466.1
115°	333.7	373.6	404.9	426.5	440.5	448.4	451.2
117.5°	311.3	347.5	376.9	398.9	413.7	422.0	424.3
120°	299.6	331.9	359.6	380.9	395.2	404.0	407.1
122.5°	289.9	320.5	345.4	364.5	378.7	386.5	389.0
125°	277.2	303.9	326.7	344.4	355.9	363.5	366.0
127.5°	264.8	290.0	311.0	326.4	337.3	343.8	345.8
130°	256.5	280.5	300.6	315.5	325.8	331.9	334.3
132.5°	248.7	270.8	289.6	304.3	314.6	320.2	322.4
135°	236.3	256.5	273.5	286.5	296.6	302.1	303.3
137.5°	226.6	242.5	257.4	269.3	277.9	282.8	284.6
140°	220.2	234.3	247.6	257.4	265.3	269.8	271.6
142.5°	214.6	226.7	237.9	247.1	254.3	258.4	258.7
145°	207.5	216.9	225.8	233.0	238.2	241.3	242.1
147.5°	201.6	209.0	215.4	221.4	225.6	227.6	228.3
150°	197.8	204.1	209.6	214.1	217.8	219.6	220.0
152.5°	194.6	200.0	204.7	208.4	211.5	212.8	212.9
155°	189.5	194.1	197.4	200.8	202.9	204.1	203.5
157.5°	184.4	188.2	190.9	193.2	195.0	195.5	195.5
160°	181.0	184.3	186.5	188.6	190.1	190.5	190.5
162.5°	177.9	180.7	182.4	184.5	185.5	185.8	185.5
165°	173.1	175.2	176.4	177.6	178.9	178.9	178.6
167.5°	168.8	170.2	171.3	171.9	172.5	172.5	172.1
170°	166.1	167.3	167.9	168.2	169.1	168.8	168.2
172.5°	163.7	164.6	165.0	165.3	165.7	165.4	165.1
175°	160.9	161.3	161.5	161.5	161.9	161.5	160.9
177.5°	158.9	159.2	159.2	159.2	159.2	158.9	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2

(END OF REPORT)