

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: P331295-935

Luminaire Tested: **S122DIP-S485D530U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331295-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S485D530U935-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3475.0 lumens
Efficiency: N/A
Efficacy: 105.9 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: General Diffuse

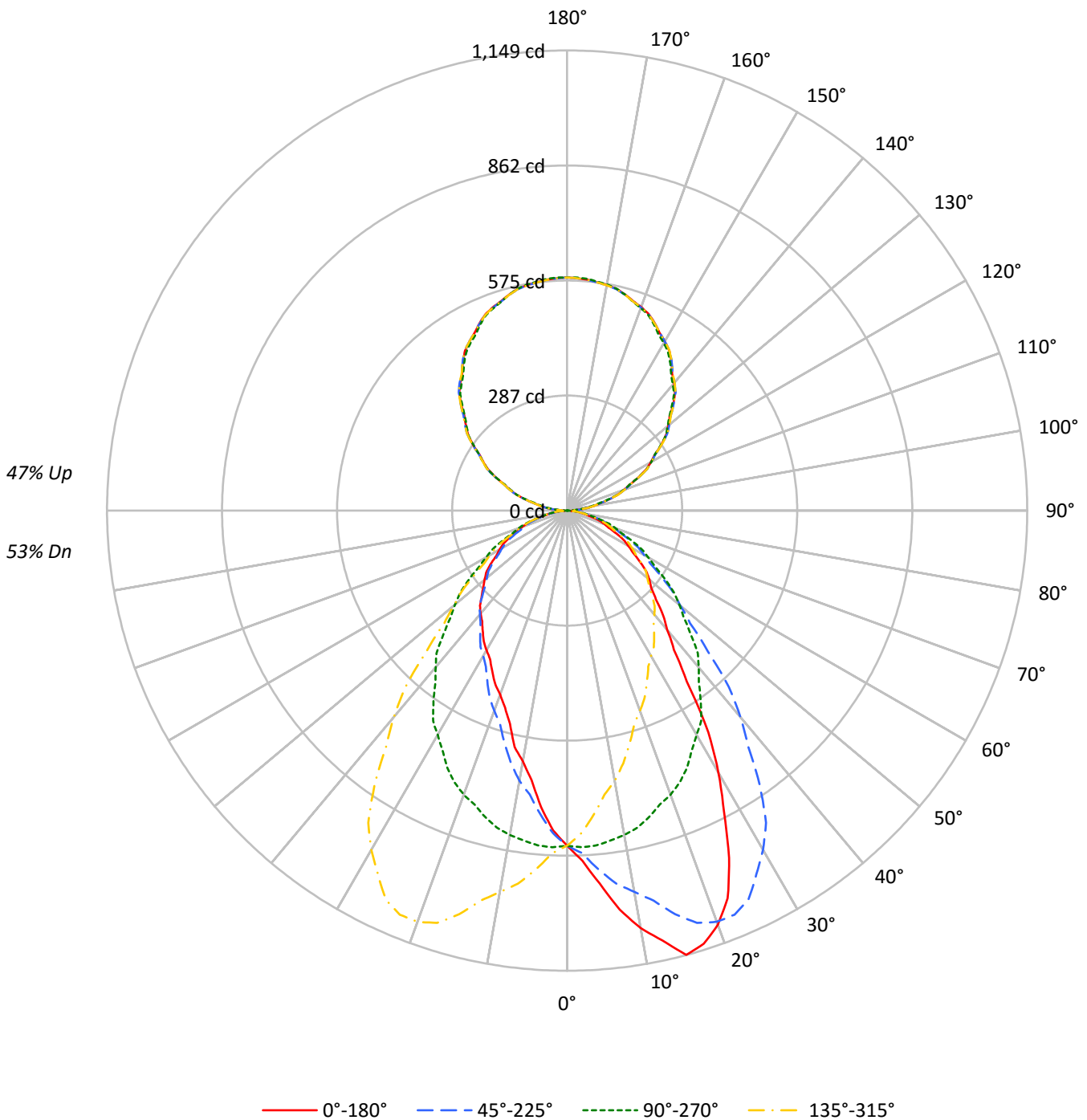
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	83	77	73	84	78	72	68	67	63	60	57	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	21	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	15

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	2.3
10°-20°	231.6	6.7
20°-30°	336.2	9.7
30°-40°	354.8	10.2
40°-50°	314.1	9.0
50°-60°	250.7	7.2
60°-70°	170.4	4.9
70°-80°	87.4	2.5
80°-90°	23.4	0.7
90°-100°	36.9	1.1
100°-110°	114.5	3.3
110°-120°	195.7	5.6
120°-130°	257.4	7.4
130°-140°	288.9	8.3
140°-150°	283.3	8.2
150°-160°	237.6	6.8
160°-170°	157.6	4.5
170°-180°	55.1	1.6
0°-30°	647.5	18.6
0°-40°	1002.3	28.8
0°-60°	1567.1	45.1
0°-90°	1848.2	53.2
90°-120°	347.1	10.0
90°-150°	1176.6	33.9
90°-180°	1627.0	46.8
0°-180°	3475.0	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°	17	0	17	0	17	8
95°	30	26	30	26	30	34
105°	109	106	109	106	109	115
115°	196	196	196	196	196	194
125°	287	286	287	286	287	256
135°	374	370	374	370	374	288
145°	454	449	454	449	454	283
155°	517	513	517	513	517	238
165°	559	558	559	558	559	158
175°	579	581	579	581	579	55
180°	582	582	582	582	582	



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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°	10.0	10.0	10.2	10.0	9.9	10.2	10.2	10.1	10.3	10.7	10.4
90°	16.7	16.6	16.4	16.4	16.3	16.3	16.5	16.8	17.0	17.2	14.8
92.5°	15.9	15.9	15.8	15.8	15.8	15.8	15.8	15.7	15.7	15.6	15.1
95°	30.5	30.7	30.9	31.1	31.3	31.4	31.4	31.4	31.4	31.4	31.2
97.5°	52.7	52.8	52.8	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.4
100°	67.2	67.4	67.5	67.6	67.7	67.8	67.8	67.8	67.8	67.8	67.4
102.5°	83.8	83.9	83.9	84.1	84.2	84.2	84.1	84.0	83.9	83.9	83.4
105°	109.0	109.0	109.0	109.0	109.0	108.9	108.7	108.5	108.2	108.1	107.8
107.5°	132.8	133.3	133.8	134.2	134.7	135.0	134.9	134.8	134.7	134.7	134.7
110°	151.2	151.5	151.9	152.2	152.6	152.7	152.7	152.7	152.7	152.7	152.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	168.9	169.1	169.4	169.6	169.9	170.1	170.4	170.7	170.9	171.2	171.3
115°	196.4	196.7	197.1	197.3	197.7	197.9	198.0	198.1	198.3	198.4	198.5
117.5°	222.6	222.9	223.3	223.6	223.9	224.2	224.5	224.7	225.0	225.2	225.8
120°	241.1	241.4	241.8	242.0	242.4	242.5	242.5	242.5	242.5	242.5	243.4
122.5°	259.2	259.4	259.6	259.8	260.1	260.4	260.6	260.9	261.1	261.4	262.0
125°	286.7	286.8	287.0	287.1	287.1	287.4	287.7	288.0	288.3	288.7	289.0
127.5°	311.9	312.2	312.5	312.9	313.2	313.7	314.0	314.4	314.8	315.2	315.6
130°	329.9	330.4	330.8	331.2	331.7	332.0	332.3	332.4	332.7	332.9	333.1
132.5°	347.2	347.6	347.9	348.3	348.6	349.0	349.5	350.0	350.5	350.9	350.9
135°	374.1	374.4	374.8	375.1	375.4	375.7	375.7	375.9	376.0	376.1	375.9
137.5°	398.5	398.9	399.3	399.8	400.2	400.5	400.5	400.6	400.7	400.8	400.5
140°	415.3	415.8	416.2	416.6	417.2	417.3	417.3	417.3	417.3	417.3	416.8
142.5°	430.7	431.1	431.5	432.0	432.4	432.6	432.5	432.4	432.3	432.2	431.9
145°	453.7	454.1	454.5	455.0	455.4	455.6	455.5	455.4	455.2	455.1	454.5
147.5°	474.2	474.6	475.0	475.4	475.9	476.0	475.7	475.4	475.2	475.0	474.5
150°	487.6	487.8	488.2	488.5	488.9	488.9	488.5	488.2	487.8	487.6	487.1
152.5°	500.2	500.5	500.9	501.4	501.8	501.8	501.4	500.9	500.5	500.2	499.6
155°	517.0	517.3	517.6	518.0	518.3	518.2	517.6	517.1	516.6	516.0	515.7
157.5°	531.5	532.1	532.6	533.1	533.6	533.6	532.8	532.0	531.3	530.5	530.4
160°	540.5	541.0	541.5	541.9	542.3	542.2	541.6	540.9	540.3	539.6	539.5
162.5°	548.5	549.0	549.5	550.0	550.5	550.4	549.7	548.9	548.2	547.4	547.3
165°	558.7	559.3	559.8	560.3	560.9	560.8	560.1	559.3	558.5	557.8	557.8
167.5°	567.1	567.7	568.3	568.9	569.5	569.4	568.6	567.8	567.1	566.3	566.3
170°	571.5	572.1	572.8	573.4	574.1	574.0	573.3	572.6	571.8	571.0	571.1
172.5°	575.1	575.7	576.4	577.0	577.6	577.6	576.9	576.1	575.3	574.5	574.6
175°	578.9	579.5	580.1	580.8	581.5	581.4	580.7	579.9	579.1	578.3	578.6
177.5°	580.7	581.2	581.7	582.2	582.7	582.7	582.2	581.7	581.2	580.7	580.8
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



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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°	10.2	9.7	9.2	9.4	8.4	8.1	6.8	5.8	5.8	5.8	5.5
90°	12.4	10.0	7.6	5.8	4.4	3.1	1.8	0.5	1.8	3.1	4.4
92.5°	14.5	13.9	13.3	12.6	11.6	10.7	9.7	8.8	9.7	10.7	11.6
95°	31.0	30.7	30.6	29.9	28.8	27.7	26.6	25.6	26.6	27.7	28.8
97.5°	52.0	51.6	51.1	50.5	49.5	48.6	47.6	46.7	47.6	48.6	49.5
100°	67.1	66.8	66.5	65.9	65.0	64.1	63.2	62.3	63.2	64.1	65.0
102.5°	83.0	82.7	82.2	81.6	80.9	80.2	79.6	78.9	79.6	80.2	80.9
105°	107.5	107.4	107.1	106.9	106.5	106.2	105.9	105.6	105.9	106.2	106.5
107.5°	134.7	134.7	134.7	134.4	133.9	133.5	132.9	132.5	132.9	133.5	133.9
110°	152.7	152.7	152.7	152.4	151.7	151.0	150.4	149.7	150.4	151.0	151.7



TEST NUMBER: P331295-935

CATALOG NUMBER: S122DIP-S485D530U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	171.3	171.4	171.5	171.3	170.6	169.9	169.3	168.6	169.3	169.9	170.6
115°	198.8	199.0	199.2	199.0	198.4	197.7	197.1	196.4	197.1	197.7	198.4
117.5°	226.4	227.1	227.7	227.6	226.7	225.8	225.0	224.1	225.0	225.8	226.7
120°	244.3	245.1	246.1	246.1	245.1	244.3	243.4	242.5	243.4	244.3	245.1
122.5°	262.6	263.2	263.8	263.6	262.6	261.6	260.5	259.4	260.5	261.6	262.6
125°	289.4	289.6	290.0	289.6	288.7	287.7	286.7	285.8	286.7	287.7	288.7
127.5°	316.0	316.4	316.8	316.3	315.1	313.8	312.6	311.3	312.6	313.8	315.1
130°	333.3	333.6	333.7	333.1	331.7	330.3	328.9	327.5	328.9	330.3	331.7
132.5°	350.9	350.9	350.8	350.2	349.0	347.8	346.7	345.5	346.7	347.8	349.0
135°	375.7	375.4	375.2	374.5	373.3	372.1	370.9	369.7	370.9	372.1	373.3
137.5°	400.3	400.0	399.7	399.1	398.1	397.1	396.1	395.1	396.1	397.1	398.1
140°	416.2	415.7	415.2	414.4	413.4	412.4	411.5	410.4	411.5	412.4	413.4
142.5°	431.5	431.2	430.8	430.1	429.1	428.2	427.1	426.2	427.1	428.2	429.1
145°	453.8	453.1	452.5	451.9	451.1	450.3	449.5	448.8	449.5	450.3	451.1
147.5°	474.1	473.6	473.2	472.5	471.7	470.7	469.8	468.9	469.8	470.7	471.7
150°	486.6	486.2	485.8	485.3	484.6	484.0	483.3	482.7	483.3	484.0	484.6
152.5°	499.0	498.5	498.0	497.4	496.8	496.1	495.5	494.8	495.5	496.1	496.8
155°	515.4	515.1	514.7	514.4	514.0	513.8	513.4	513.1	513.4	513.8	514.0
157.5°	530.2	529.9	529.8	529.6	529.3	529.1	528.9	528.7	528.9	529.1	529.3
160°	539.3	539.2	539.2	539.0	538.7	538.6	538.3	538.1	538.3	538.6	538.7
162.5°	547.3	547.1	547.0	546.9	546.9	546.8	546.8	546.7	546.8	546.8	546.9
165°	557.8	557.8	557.8	557.8	557.9	558.0	558.1	558.3	558.1	558.0	557.9
167.5°	566.4	566.4	566.4	566.5	566.9	567.2	567.6	567.8	567.6	567.2	566.9
170°	571.2	571.4	571.4	571.7	572.0	572.3	572.7	573.0	572.7	572.3	572.0
172.5°	574.8	574.9	575.0	575.2	575.5	575.8	576.2	576.5	576.2	575.8	575.5
175°	578.9	579.0	579.3	579.5	579.9	580.1	580.5	580.8	580.5	580.1	579.9
177.5°	581.0	581.2	581.3	581.5	581.8	582.0	582.3	582.6	582.3	582.0	581.8
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



TEST NUMBER: P331295-935

CATALOG NUMBER: S122DIP-S485D530U935-4F0-1E-UDD-A1

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°	5.5	5.6	5.9	6.4	6.5	6.8	6.5	6.5	6.4	5.9	5.9
90°	5.8	7.6	10.0	12.4	14.8	17.2	17.0	16.8	16.5	16.3	16.3
92.5°	12.6	13.3	13.9	14.5	15.1	15.6	15.7	15.7	15.8	15.8	15.8
95°	29.9	30.6	30.7	31.0	31.2	31.4	31.4	31.4	31.4	31.4	31.3
97.5°	50.5	51.1	51.6	52.0	52.4	52.9	52.9	52.9	52.9	52.9	52.8
100°	65.9	66.5	66.8	67.1	67.4	67.8	67.8	67.8	67.8	67.8	67.7
102.5°	81.6	82.2	82.7	83.0	83.4	83.9	83.9	84.0	84.1	84.2	84.2
105°	106.9	107.1	107.4	107.5	107.8	108.1	108.2	108.5	108.7	108.9	109.0
107.5°	134.4	134.7	134.7	134.7	134.7	134.7	134.7	134.8	134.9	135.0	134.7
110°	152.4	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.6



TEST NUMBER: P331295-935

CATALOG NUMBER: S122DIP-S485D530U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	171.3	171.5	171.4	171.3	171.3	171.2	170.9	170.7	170.4	170.1	169.9
115°	199.0	199.2	199.0	198.8	198.5	198.4	198.3	198.1	198.0	197.9	197.7
117.5°	227.6	227.7	227.1	226.4	225.8	225.2	225.0	224.7	224.5	224.2	223.9
120°	246.1	246.1	245.1	244.3	243.4	242.5	242.5	242.5	242.5	242.5	242.4
122.5°	263.6	263.8	263.2	262.6	262.0	261.4	261.1	260.9	260.6	260.4	260.1
125°	289.6	290.0	289.6	289.4	289.0	288.7	288.3	288.0	287.7	287.4	287.1
127.5°	316.3	316.8	316.4	316.0	315.6	315.2	314.8	314.4	314.0	313.7	313.2
130°	333.1	333.7	333.6	333.3	333.1	332.9	332.7	332.4	332.3	332.0	331.7
132.5°	350.2	350.8	350.9	350.9	350.9	350.9	350.5	350.0	349.5	349.0	348.6
135°	374.5	375.2	375.4	375.7	375.9	376.1	376.0	375.9	375.7	375.7	375.4
137.5°	399.1	399.7	400.0	400.3	400.5	400.8	400.7	400.6	400.5	400.5	400.2
140°	414.4	415.2	415.7	416.2	416.8	417.3	417.3	417.3	417.3	417.3	417.2
142.5°	430.1	430.8	431.2	431.5	431.9	432.2	432.3	432.4	432.5	432.6	432.4
145°	451.9	452.5	453.1	453.8	454.5	455.1	455.2	455.4	455.5	455.6	455.4
147.5°	472.5	473.2	473.6	474.1	474.5	475.0	475.2	475.4	475.7	476.0	475.9
150°	485.3	485.8	486.2	486.6	487.1	487.6	487.8	488.2	488.5	488.9	488.9
152.5°	497.4	498.0	498.5	499.0	499.6	500.2	500.5	500.9	501.4	501.8	501.8
155°	514.4	514.7	515.1	515.4	515.7	516.0	516.6	517.1	517.6	518.2	518.3
157.5°	529.6	529.8	529.9	530.2	530.4	530.5	531.3	532.0	532.8	533.6	533.6
160°	539.0	539.2	539.2	539.3	539.5	539.6	540.3	540.9	541.6	542.2	542.3
162.5°	546.9	547.0	547.1	547.3	547.3	547.4	548.2	548.9	549.7	550.4	550.5
165°	557.8	557.8	557.8	557.8	557.8	557.8	558.5	559.3	560.1	560.8	560.9
167.5°	566.5	566.4	566.4	566.4	566.3	566.3	567.1	567.8	568.6	569.4	569.5
170°	571.7	571.4	571.4	571.2	571.1	571.0	571.8	572.6	573.3	574.0	574.1
172.5°	575.2	575.0	574.9	574.8	574.6	574.5	575.3	576.1	576.9	577.6	577.6
175°	579.5	579.3	579.0	578.9	578.6	578.3	579.1	579.9	580.7	581.4	581.5
177.5°	581.5	581.3	581.2	581.0	580.8	580.7	581.2	581.7	582.2	582.7	582.7
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



TEST NUMBER: P331295-935

CATALOG NUMBER: S122DIP-S485D530U935-4F0-1E-UDD-A1

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°	5.9	5.6	5.6	5.4	5.6	5.6	5.9	5.9	5.9	6.4	6.5
90°	16.4	16.4	16.6	16.7	16.6	16.4	16.4	16.3	16.3	16.5	16.8
92.5°	15.8	15.8	15.9	15.9	15.9	15.8	15.8	15.8	15.8	15.8	15.7
95°	31.1	30.9	30.7	30.5	30.7	30.9	31.1	31.3	31.4	31.4	31.4
97.5°	52.8	52.8	52.8	52.7	52.8	52.8	52.8	52.8	52.9	52.9	52.9
100°	67.6	67.5	67.4	67.2	67.4	67.5	67.6	67.7	67.8	67.8	67.8
102.5°	84.1	83.9	83.9	83.8	83.9	83.9	84.1	84.2	84.2	84.1	84.0
105°	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	108.9	108.7	108.5
107.5°	134.2	133.8	133.3	132.8	133.3	133.8	134.2	134.7	135.0	134.9	134.8
110°	152.2	151.9	151.5	151.2	151.5	151.9	152.2	152.6	152.7	152.7	152.7



TEST NUMBER: P331295-935

CATALOG NUMBER: S122DIP-S485D530U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	169.6	169.4	169.1	168.9	169.1	169.4	169.6	169.9	170.1	170.4	170.7
115°	197.3	197.1	196.7	196.4	196.7	197.1	197.3	197.7	197.9	198.0	198.1
117.5°	223.6	223.3	222.9	222.6	222.9	223.3	223.6	223.9	224.2	224.5	224.7
120°	242.0	241.8	241.4	241.1	241.4	241.8	242.0	242.4	242.5	242.5	242.5
122.5°	259.8	259.6	259.4	259.2	259.4	259.6	259.8	260.1	260.4	260.6	260.9
125°	287.1	287.0	286.8	286.7	286.8	287.0	287.1	287.1	287.4	287.7	288.0
127.5°	312.9	312.5	312.2	311.9	312.2	312.5	312.9	313.2	313.7	314.0	314.4
130°	331.2	330.8	330.4	329.9	330.4	330.8	331.2	331.7	332.0	332.3	332.4
132.5°	348.3	347.9	347.6	347.2	347.6	347.9	348.3	348.6	349.0	349.5	350.0
135°	375.1	374.8	374.4	374.1	374.4	374.8	375.1	375.4	375.7	375.7	375.9
137.5°	399.8	399.3	398.9	398.5	398.9	399.3	399.8	400.2	400.5	400.5	400.6
140°	416.6	416.2	415.8	415.3	415.8	416.2	416.6	417.2	417.3	417.3	417.3
142.5°	432.0	431.5	431.1	430.7	431.1	431.5	432.0	432.4	432.6	432.5	432.4
145°	455.0	454.5	454.1	453.7	454.1	454.5	455.0	455.4	455.6	455.5	455.4
147.5°	475.4	475.0	474.6	474.2	474.6	475.0	475.4	475.9	476.0	475.7	475.4
150°	488.5	488.2	487.8	487.6	487.8	488.2	488.5	488.9	488.9	488.5	488.2
152.5°	501.4	500.9	500.5	500.2	500.5	500.9	501.4	501.8	501.8	501.4	500.9
155°	518.0	517.6	517.3	517.0	517.3	517.6	518.0	518.3	518.2	517.6	517.1
157.5°	533.1	532.6	532.1	531.5	532.1	532.6	533.1	533.6	533.6	532.8	532.0
160°	541.9	541.5	541.0	540.5	541.0	541.5	541.9	542.3	542.2	541.6	540.9
162.5°	550.0	549.5	549.0	548.5	549.0	549.5	550.0	550.5	550.4	549.7	548.9
165°	560.3	559.8	559.3	558.7	559.3	559.8	560.3	560.9	560.8	560.1	559.3
167.5°	568.9	568.3	567.7	567.1	567.7	568.3	568.9	569.5	569.4	568.6	567.8
170°	573.4	572.8	572.1	571.5	572.1	572.8	573.4	574.1	574.0	573.3	572.6
172.5°	577.0	576.4	575.7	575.1	575.7	576.4	577.0	577.6	577.6	576.9	576.1
175°	580.8	580.1	579.5	578.9	579.5	580.1	580.8	581.5	581.4	580.7	579.9
177.5°	582.2	581.7	581.2	580.7	581.2	581.7	582.2	582.7	582.7	582.2	581.7
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



TEST NUMBER: P331295-935

CATALOG NUMBER: S122DIP-S485D530U935-4F0-1E-UDD-A1

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°	6.5	6.8	6.5	6.4	5.9	5.6	5.5	5.5	5.8	5.8	5.8
90°	17.0	17.2	14.8	12.4	10.0	7.6	5.8	4.4	3.1	1.8	0.5
92.5°	15.7	15.6	15.1	14.5	13.9	13.3	12.6	11.6	10.7	9.7	8.8
95°	31.4	31.4	31.2	31.0	30.7	30.6	29.9	28.8	27.7	26.6	25.6
97.5°	52.9	52.9	52.4	52.0	51.6	51.1	50.5	49.5	48.6	47.6	46.7
100°	67.8	67.8	67.4	67.1	66.8	66.5	65.9	65.0	64.1	63.2	62.3
102.5°	83.9	83.9	83.4	83.0	82.7	82.2	81.6	80.9	80.2	79.6	78.9
105°	108.2	108.1	107.8	107.5	107.4	107.1	106.9	106.5	106.2	105.9	105.6
107.5°	134.7	134.7	134.7	134.7	134.7	134.7	134.4	133.9	133.5	132.9	132.5
110°	152.7	152.7	152.7	152.7	152.7	152.7	152.4	151.7	151.0	150.4	149.7



TEST NUMBER: P331295-935

CATALOG NUMBER: S122DIP-S485D530U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	170.9	171.2	171.3	171.3	171.4	171.5	171.3	170.6	169.9	169.3	168.6
115°	198.3	198.4	198.5	198.8	199.0	199.2	199.0	198.4	197.7	197.1	196.4
117.5°	225.0	225.2	225.8	226.4	227.1	227.7	227.6	226.7	225.8	225.0	224.1
120°	242.5	242.5	243.4	244.3	245.1	246.1	246.1	245.1	244.3	243.4	242.5
122.5°	261.1	261.4	262.0	262.6	263.2	263.8	263.6	262.6	261.6	260.5	259.4
125°	288.3	288.7	289.0	289.4	289.6	290.0	289.6	288.7	287.7	286.7	285.8
127.5°	314.8	315.2	315.6	316.0	316.4	316.8	316.3	315.1	313.8	312.6	311.3
130°	332.7	332.9	333.1	333.3	333.6	333.7	333.1	331.7	330.3	328.9	327.5
132.5°	350.5	350.9	350.9	350.9	350.9	350.8	350.2	349.0	347.8	346.7	345.5
135°	376.0	376.1	375.9	375.7	375.4	375.2	374.5	373.3	372.1	370.9	369.7
137.5°	400.7	400.8	400.5	400.3	400.0	399.7	399.1	398.1	397.1	396.1	395.1
140°	417.3	417.3	416.8	416.2	415.7	415.2	414.4	413.4	412.4	411.5	410.4
142.5°	432.3	432.2	431.9	431.5	431.2	430.8	430.1	429.1	428.2	427.1	426.2
145°	455.2	455.1	454.5	453.8	453.1	452.5	451.9	451.1	450.3	449.5	448.8
147.5°	475.2	475.0	474.5	474.1	473.6	473.2	472.5	471.7	470.7	469.8	468.9
150°	487.8	487.6	487.1	486.6	486.2	485.8	485.3	484.6	484.0	483.3	482.7
152.5°	500.5	500.2	499.6	499.0	498.5	498.0	497.4	496.8	496.1	495.5	494.8
155°	516.6	516.0	515.7	515.4	515.1	514.7	514.4	514.0	513.8	513.4	513.1
157.5°	531.3	530.5	530.4	530.2	529.9	529.8	529.6	529.3	529.1	528.9	528.7
160°	540.3	539.6	539.5	539.3	539.2	539.2	539.0	538.7	538.6	538.3	538.1
162.5°	548.2	547.4	547.3	547.3	547.1	547.0	546.9	546.9	546.8	546.8	546.7
165°	558.5	557.8	557.8	557.8	557.8	557.8	557.8	557.9	558.0	558.1	558.3
167.5°	567.1	566.3	566.3	566.4	566.4	566.4	566.5	566.9	567.2	567.6	567.8
170°	571.8	571.0	571.1	571.2	571.4	571.4	571.7	572.0	572.3	572.7	573.0
172.5°	575.3	574.5	574.6	574.8	574.9	575.0	575.2	575.5	575.8	576.2	576.5
175°	579.1	578.3	578.6	578.9	579.0	579.3	579.5	579.9	580.1	580.5	580.8
177.5°	581.2	580.7	580.8	581.0	581.2	581.3	581.5	581.8	582.0	582.3	582.6
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



TEST NUMBER: P331295-935

CATALOG NUMBER: S122DIP-S485D530U935-4F0-1E-UDD-A1

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°	6.8	8.1	8.4	9.4	9.2	9.7	10.2	10.4	10.7	10.3	10.1
90°	1.8	3.1	4.4	5.8	7.6	10.0	12.4	14.8	17.2	17.0	16.8
92.5°	9.7	10.7	11.6	12.6	13.3	13.9	14.5	15.1	15.6	15.7	15.7
95°	26.6	27.7	28.8	29.9	30.6	30.7	31.0	31.2	31.4	31.4	31.4
97.5°	47.6	48.6	49.5	50.5	51.1	51.6	52.0	52.4	52.9	52.9	52.9
100°	63.2	64.1	65.0	65.9	66.5	66.8	67.1	67.4	67.8	67.8	67.8
102.5°	79.6	80.2	80.9	81.6	82.2	82.7	83.0	83.4	83.9	83.9	84.0
105°	105.9	106.2	106.5	106.9	107.1	107.4	107.5	107.8	108.1	108.2	108.5
107.5°	132.9	133.5	133.9	134.4	134.7	134.7	134.7	134.7	134.7	134.7	134.8
110°	150.4	151.0	151.7	152.4	152.7	152.7	152.7	152.7	152.7	152.7	152.7



TEST NUMBER: P331295-935

CATALOG NUMBER: S122DIP-S485D530U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	169.3	169.9	170.6	171.3	171.5	171.4	171.3	171.3	171.2	170.9	170.7
115°	197.1	197.7	198.4	199.0	199.2	199.0	198.8	198.5	198.4	198.3	198.1
117.5°	225.0	225.8	226.7	227.6	227.7	227.1	226.4	225.8	225.2	225.0	224.7
120°	243.4	244.3	245.1	246.1	246.1	245.1	244.3	243.4	242.5	242.5	242.5
122.5°	260.5	261.6	262.6	263.6	263.8	263.2	262.6	262.0	261.4	261.1	260.9
125°	286.7	287.7	288.7	289.6	290.0	289.6	289.4	289.0	288.7	288.3	288.0
127.5°	312.6	313.8	315.1	316.3	316.8	316.4	316.0	315.6	315.2	314.8	314.4
130°	328.9	330.3	331.7	333.1	333.7	333.6	333.3	333.1	332.9	332.7	332.4
132.5°	346.7	347.8	349.0	350.2	350.8	350.9	350.9	350.9	350.9	350.5	350.0
135°	370.9	372.1	373.3	374.5	375.2	375.4	375.7	375.9	376.1	376.0	375.9
137.5°	396.1	397.1	398.1	399.1	399.7	400.0	400.3	400.5	400.8	400.7	400.6
140°	411.5	412.4	413.4	414.4	415.2	415.7	416.2	416.8	417.3	417.3	417.3
142.5°	427.1	428.2	429.1	430.1	430.8	431.2	431.5	431.9	432.2	432.3	432.4
145°	449.5	450.3	451.1	451.9	452.5	453.1	453.8	454.5	455.1	455.2	455.4
147.5°	469.8	470.7	471.7	472.5	473.2	473.6	474.1	474.5	475.0	475.2	475.4
150°	483.3	484.0	484.6	485.3	485.8	486.2	486.6	487.1	487.6	487.8	488.2
152.5°	495.5	496.1	496.8	497.4	498.0	498.5	499.0	499.6	500.2	500.5	500.9
155°	513.4	513.8	514.0	514.4	514.7	515.1	515.4	515.7	516.0	516.6	517.1
157.5°	528.9	529.1	529.3	529.6	529.8	529.9	530.2	530.4	530.5	531.3	532.0
160°	538.3	538.6	538.7	539.0	539.2	539.2	539.3	539.5	539.6	540.3	540.9
162.5°	546.8	546.8	546.9	546.9	547.0	547.1	547.3	547.3	547.4	548.2	548.9
165°	558.1	558.0	557.9	557.8	557.8	557.8	557.8	557.8	557.8	558.5	559.3
167.5°	567.6	567.2	566.9	566.5	566.4	566.4	566.4	566.3	566.3	567.1	567.8
170°	572.7	572.3	572.0	571.7	571.4	571.4	571.2	571.1	571.0	571.8	572.6
172.5°	576.2	575.8	575.5	575.2	575.0	574.9	574.8	574.6	574.5	575.3	576.1
175°	580.5	580.1	579.9	579.5	579.3	579.0	578.9	578.6	578.3	579.1	579.9
177.5°	582.3	582.0	581.8	581.5	581.3	581.2	581.0	580.8	580.7	581.2	581.7
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8



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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°	10.2	10.2	9.9	10.0	10.2	10.0	10.0
90°	16.5	16.3	16.3	16.4	16.4	16.6	16.7
92.5°	15.8	15.8	15.8	15.8	15.8	15.9	15.9
95°	31.4	31.4	31.3	31.1	30.9	30.7	30.5
97.5°	52.9	52.9	52.8	52.8	52.8	52.8	52.7
100°	67.8	67.8	67.7	67.6	67.5	67.4	67.2
102.5°	84.1	84.2	84.2	84.1	83.9	83.9	83.8
105°	108.7	108.9	109.0	109.0	109.0	109.0	109.0
107.5°	134.9	135.0	134.7	134.2	133.8	133.3	132.8
110°	152.7	152.7	152.6	152.2	151.9	151.5	151.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	170.4	170.1	169.9	169.6	169.4	169.1	168.9
115°	198.0	197.9	197.7	197.3	197.1	196.7	196.4
117.5°	224.5	224.2	223.9	223.6	223.3	222.9	222.6
120°	242.5	242.5	242.4	242.0	241.8	241.4	241.1
122.5°	260.6	260.4	260.1	259.8	259.6	259.4	259.2
125°	287.7	287.4	287.1	287.1	287.0	286.8	286.7
127.5°	314.0	313.7	313.2	312.9	312.5	312.2	311.9
130°	332.3	332.0	331.7	331.2	330.8	330.4	329.9
132.5°	349.5	349.0	348.6	348.3	347.9	347.6	347.2
135°	375.7	375.7	375.4	375.1	374.8	374.4	374.1
137.5°	400.5	400.5	400.2	399.8	399.3	398.9	398.5
140°	417.3	417.3	417.2	416.6	416.2	415.8	415.3
142.5°	432.5	432.6	432.4	432.0	431.5	431.1	430.7
145°	455.5	455.6	455.4	455.0	454.5	454.1	453.7
147.5°	475.7	476.0	475.9	475.4	475.0	474.6	474.2
150°	488.5	488.9	488.9	488.5	488.2	487.8	487.6
152.5°	501.4	501.8	501.8	501.4	500.9	500.5	500.2
155°	517.6	518.2	518.3	518.0	517.6	517.3	517.0
157.5°	532.8	533.6	533.6	533.1	532.6	532.1	531.5
160°	541.6	542.2	542.3	541.9	541.5	541.0	540.5
162.5°	549.7	550.4	550.5	550.0	549.5	549.0	548.5
165°	560.1	560.8	560.9	560.3	559.8	559.3	558.7
167.5°	568.6	569.4	569.5	568.9	568.3	567.7	567.1
170°	573.3	574.0	574.1	573.4	572.8	572.1	571.5
172.5°	576.9	577.6	577.6	577.0	576.4	575.7	575.1
175°	580.7	581.4	581.5	580.8	580.1	579.5	578.9
177.5°	582.2	582.7	582.7	582.2	581.7	581.2	580.7
180°	581.8	581.8	581.8	581.8	581.8	581.8	581.8

(END OF REPORT)