

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: P331295-940

Luminaire Tested: **S122DIP-S485D530U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331295-940
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-S485D530U940-4F0-1E-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: 3599.0 lumens
Efficiency: N/A
Efficacy: 109.7 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

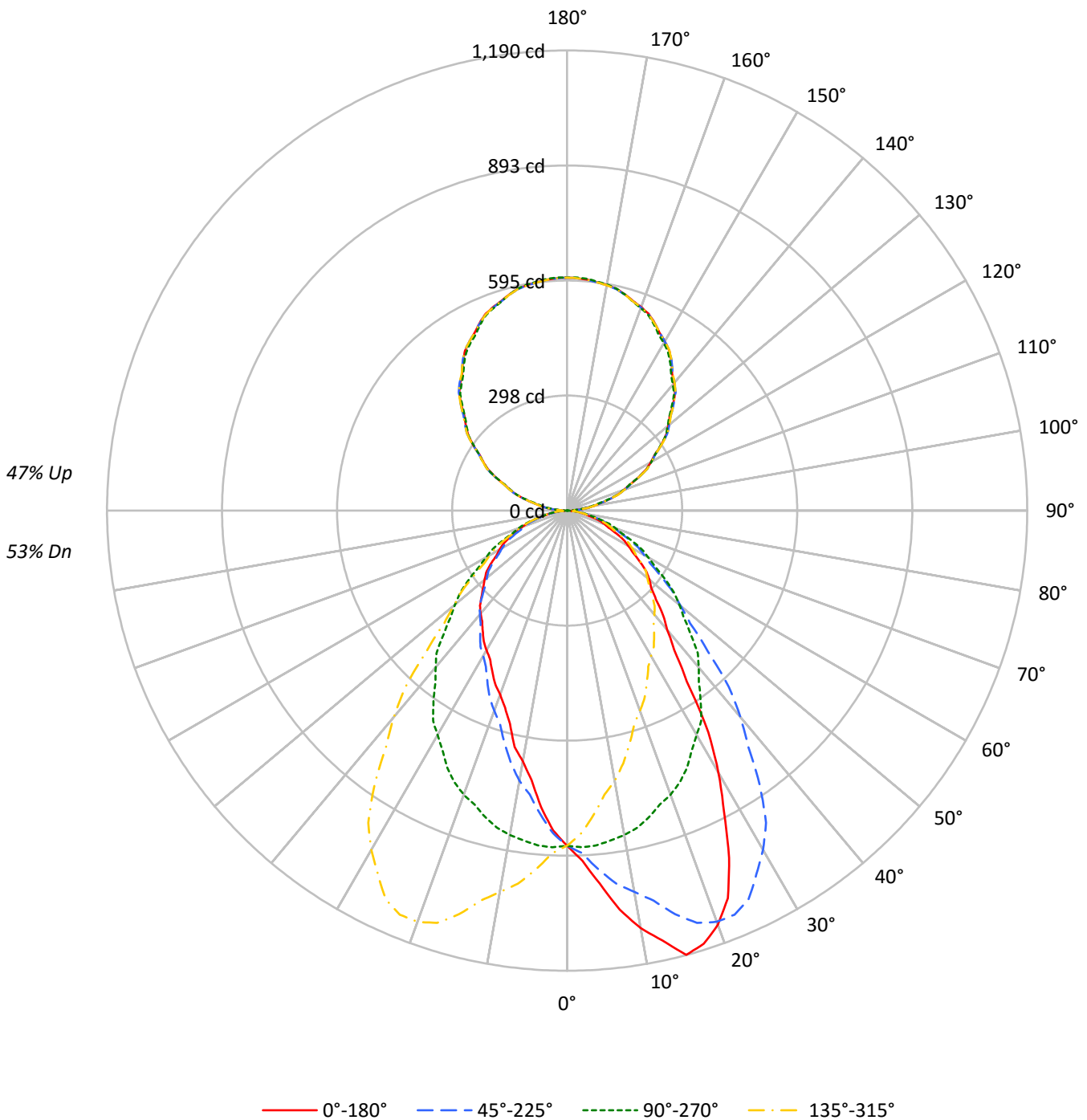
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	13990	13990	13990	13990
5°	15686	14083	12478	14083
10°	17974	13967	10799	13967
15°	19883	13710	9541	13710
20°	19581	13435	8698	13435
25°	17655	13069	8165	13069
30°	14590	12486	7774	12486
35°	10634	11874	7496	11874
40°	8494	11152	7341	11152
45°	7421	10319	7133	10319
50°	6978	9510	6993	9510
55°	6432	8690	6804	8690
60°	5893	7818	6516	7818
65°	5368	7033	6235	7033
70°	4877	6274	5816	6274
75°	4323	5421	5153	5421
80°	3710	4491	4147	4491
85°	3335	3335	2464	3335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	2.3
10°-20°	239.9	6.7
20°-30°	348.2	9.7
30°-40°	367.4	10.2
40°-50°	325.3	9.0
50°-60°	259.6	7.2
60°-70°	176.5	4.9
70°-80°	90.5	2.5
80°-90°	24.2	0.7
90°-100°	38.2	1.1
100°-110°	118.6	3.3
110°-120°	202.7	5.6
120°-130°	266.6	7.4
130°-140°	299.2	8.3
140°-150°	293.4	8.2
150°-160°	246.1	6.8
160°-170°	163.2	4.5
170°-180°	57.0	1.6
0°-30°	670.6	18.6
0°-40°	1038.0	28.8
0°-60°	1623.0	45.1
0°-90°	1914.1	53.2
90°-120°	359.5	10.0
90°-150°	1218.6	33.9
90°-180°	1685.0	46.8
0°-180°	3599.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	866	866	866	866	866	
5°	968	869	770	869	968	97
15°	1190	820	571	820	1190	328
25°	991	734	458	734	991	448
35°	540	602	380	602	540	351
45°	325	452	312	452	325	256
55°	228	309	242	309	228	205
65°	140	184	163	184	140	140
75°	69	87	83	87	69	74
85°	18	18	13	18	18	20
90°	17	0	17	0	17	8
95°	32	26	32	26	32	35
105°	113	109	113	109	113	119
115°	203	203	203	203	203	201
125°	297	296	297	296	297	265
135°	387	383	387	383	387	298
145°	470	465	470	465	470	293
155°	536	531	536	531	536	246
165°	579	578	579	578	579	163
175°	600	602	600	602	600	57
180°	602	602	602	602	602	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	906.5	906.8	907.2	903.0	902.5	902.5	898.8	895.5	891.8	886.7	887.3
5°	967.8	971.4	972.8	968.8	962.8	962.1	956.4	947.1	938.4	931.5	926.5
7.5°	1040.9	1042.3	1039.1	1033.8	1029.4	1021.4	1010.8	1000.5	986.1	972.8	963.0
10°	1096.3	1098.3	1092.6	1084.9	1078.6	1069.3	1054.0	1038.3	1019.4	1001.0	986.4
12.5°	1138.4	1143.4	1136.0	1135.1	1124.2	1111.4	1093.1	1085.2	1058.5	1033.0	1017.3
15°	1189.5	1189.2	1189.9	1183.6	1175.5	1173.6	1154.2	1133.3	1095.6	1080.7	1054.6
17.5°	1174.7	1179.8	1182.1	1182.1	1181.9	1180.6	1174.4	1161.2	1142.3	1118.0	1088.1
20°	1139.6	1146.2	1147.3	1154.9	1159.2	1164.9	1167.2	1163.6	1151.9	1131.6	1105.6
22.5°	1085.2	1087.1	1090.2	1102.2	1111.5	1125.7	1133.1	1145.4	1140.9	1131.0	1109.4
25°	991.0	987.7	999.3	1005.4	1027.0	1049.6	1066.0	1084.0	1099.9	1109.6	1103.3
27.5°	878.0	873.0	890.5	906.3	923.9	948.4	973.8	1003.9	1028.9	1060.2	1070.9
30°	782.6	785.6	802.3	819.2	845.9	880.5	909.1	942.1	977.8	1012.7	1037.0
32.5°	679.8	691.3	701.8	727.8	751.3	789.9	831.9	873.1	917.6	957.3	994.9
35°	539.5	552.8	567.5	586.5	619.4	657.7	698.7	754.3	814.9	869.2	913.8
37.5°	454.1	452.0	460.4	474.1	500.8	531.7	578.8	633.8	705.2	768.9	831.9
40°	403.0	401.6	407.6	420.3	440.6	463.2	504.5	552.8	619.1	697.0	772.0
42.5°	367.7	368.5	371.9	380.8	394.8	413.4	444.3	485.4	546.1	619.5	700.0
45°	325.0	327.3	331.0	335.4	343.3	358.6	375.9	405.3	453.3	514.5	593.8
47.5°	294.3	294.4	298.0	301.8	306.6	315.2	329.4	347.8	381.6	431.5	499.6
50°	277.8	275.4	278.0	281.1	286.1	292.0	301.4	318.7	341.3	381.7	438.5
52.5°	257.5	257.5	259.9	261.1	265.6	271.5	280.1	292.0	312.5	344.1	390.9
55°	228.5	230.2	231.5	233.4	237.5	241.7	248.4	256.5	272.4	296.0	330.6
57.5°	201.2	201.7	203.0	206.8	209.4	213.3	219.6	226.9	237.3	254.9	280.9
60°	182.5	182.5	185.1	186.8	190.1	194.1	199.1	206.2	215.4	229.8	250.7
62.5°	165.4	165.1	166.2	169.0	171.5	175.2	180.2	186.2	194.9	207.7	224.9
65°	140.5	139.9	141.9	142.5	145.2	148.8	152.8	159.2	166.2	175.5	190.8
67.5°	116.5	117.3	118.4	119.7	121.2	125.0	127.7	132.2	138.0	145.8	156.2
70°	103.3	103.3	103.3	104.2	106.2	108.3	110.9	114.6	120.2	126.9	136.2
72.5°	88.3	89.3	90.4	89.9	92.4	93.5	96.8	98.8	104.2	108.5	116.7
75°	69.3	69.3	69.3	70.9	72.0	72.9	74.9	77.0	79.6	84.9	89.3
77.5°	51.7	51.5	51.9	52.3	53.3	54.6	55.1	57.0	59.4	61.9	65.5
80°	39.9	40.7	40.9	41.6	41.6	42.3	42.6	44.9	46.6	48.3	50.6
82.5°	30.9	31.0	31.1	31.2	31.5	31.9	32.7	33.5	34.1	35.5	37.3
85°	18.0	17.7	17.7	18.3	18.0	18.0	18.6	19.4	19.4	19.6	20.7
87.5°	10.3	10.3	10.6	10.3	10.3	10.6	10.6	10.4	10.7	11.1	10.8
90°	17.3	17.2	17.0	16.9	16.9	16.9	17.1	17.4	17.6	17.8	15.3
92.5°	16.5	16.5	16.4	16.4	16.4	16.3	16.3	16.2	16.2	16.1	15.6
95°	31.6	31.7	32.0	32.2	32.5	32.5	32.5	32.5	32.5	32.5	32.3
97.5°	54.6	54.7	54.7	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.3
100°	69.6	69.8	69.9	70.0	70.1	70.2	70.2	70.2	70.2	70.2	69.8
102.5°	86.8	86.9	86.9	87.1	87.2	87.2	87.1	87.0	86.9	86.9	86.4
105°	112.9	112.9	112.9	112.9	112.9	112.8	112.5	112.4	112.1	111.9	111.6
107.5°	137.5	138.0	138.6	139.0	139.6	139.8	139.7	139.6	139.6	139.5	139.5
110°	156.6	156.9	157.3	157.7	158.0	158.1	158.1	158.1	158.1	158.1	158.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	175.0	175.1	175.4	175.7	175.9	176.2	176.5	176.7	177.0	177.3	177.4
115°	203.4	203.8	204.1	204.4	204.7	205.0	205.1	205.2	205.4	205.5	205.6
117.5°	230.5	230.9	231.2	231.6	231.9	232.2	232.5	232.7	233.0	233.3	233.9
120°	249.7	250.0	250.4	250.7	251.0	251.2	251.2	251.2	251.2	251.2	252.1
122.5°	268.4	268.7	268.9	269.1	269.4	269.7	269.9	270.2	270.5	270.7	271.3
125°	296.9	297.0	297.2	297.3	297.4	297.7	298.0	298.3	298.6	299.0	299.3
127.5°	323.0	323.3	323.7	324.0	324.4	324.9	325.2	325.7	326.0	326.5	326.9
130°	341.7	342.1	342.6	343.0	343.5	343.8	344.1	344.3	344.6	344.7	345.0
132.5°	359.6	360.0	360.3	360.7	361.1	361.5	361.9	362.5	363.0	363.5	363.5
135°	387.4	387.8	388.2	388.5	388.8	389.1	389.1	389.3	389.4	389.5	389.3
137.5°	412.7	413.1	413.6	414.0	414.5	414.7	414.8	414.9	415.0	415.1	414.8
140°	430.2	430.6	431.1	431.5	432.0	432.2	432.2	432.2	432.2	432.2	431.7
142.5°	446.0	446.5	446.9	447.4	447.8	448.0	447.9	447.8	447.7	447.6	447.3
145°	469.8	470.3	470.7	471.2	471.6	471.8	471.7	471.6	471.4	471.4	470.7
147.5°	491.1	491.5	492.0	492.4	492.8	492.9	492.7	492.4	492.1	492.0	491.4
150°	505.0	505.2	505.6	506.0	506.3	506.3	506.0	505.6	505.2	505.0	504.4
152.5°	518.0	518.4	518.8	519.2	519.7	519.7	519.2	518.8	518.4	518.0	517.4
155°	535.5	535.7	536.1	536.5	536.8	536.7	536.1	535.6	535.0	534.4	534.0
157.5°	550.5	551.1	551.6	552.1	552.7	552.6	551.8	551.0	550.3	549.5	549.3
160°	559.8	560.3	560.8	561.2	561.7	561.5	560.9	560.2	559.5	558.8	558.7
162.5°	568.0	568.6	569.1	569.6	570.2	570.1	569.3	568.5	567.8	566.9	566.9
165°	578.6	579.3	579.8	580.3	580.9	580.8	580.1	579.3	578.5	577.7	577.7
167.5°	587.4	588.0	588.6	589.2	589.8	589.7	588.9	588.1	587.3	586.5	586.5
170°	591.9	592.5	593.3	593.9	594.6	594.5	593.8	593.0	592.2	591.4	591.5
172.5°	595.6	596.2	596.9	597.6	598.2	598.2	597.4	596.6	595.8	595.0	595.1
175°	599.5	600.2	600.8	601.5	602.3	602.2	601.4	600.6	599.8	599.0	599.2
177.5°	601.4	601.9	602.4	603.0	603.5	603.5	603.0	602.4	601.9	601.4	601.5
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	889.1	887.0	885.6	880.9	876.6	872.4	871.0	871.6	865.7	860.1	857.7
5°	923.8	917.1	910.8	901.8	891.2	879.5	873.5	868.9	857.2	844.5	837.2
7.5°	954.8	945.3	933.1	916.2	900.7	882.3	870.7	860.4	843.3	825.5	814.6
10°	973.7	960.7	945.1	924.4	905.4	883.2	867.5	851.9	831.9	810.6	797.3
12.5°	990.0	972.5	957.1	930.6	908.1	880.2	861.7	839.6	818.6	793.3	780.2
15°	1028.7	996.4	967.1	937.1	909.5	870.5	849.9	820.2	792.6	761.3	746.3
17.5°	1058.5	1022.3	976.2	938.1	905.8	862.6	832.3	796.8	764.1	728.3	708.0
20°	1075.7	1034.0	984.4	939.1	900.4	851.2	818.2	781.9	743.6	703.3	681.4
22.5°	1085.7	1042.1	992.9	935.1	889.8	841.9	800.4	760.6	721.8	678.3	655.2
25°	1089.0	1049.0	997.0	931.7	876.5	822.2	772.2	733.6	686.7	646.0	612.4
27.5°	1073.1	1044.5	994.5	925.5	861.1	797.6	742.0	698.2	648.6	604.6	570.7
30°	1053.6	1037.0	988.4	919.1	848.8	780.6	719.3	669.7	620.5	575.8	541.2
32.5°	1023.6	1019.9	977.2	910.1	835.8	759.0	695.6	645.4	590.8	547.0	514.0
35°	964.4	980.4	953.4	889.8	811.2	728.3	659.7	602.4	545.8	503.8	472.9
37.5°	885.2	924.9	917.8	860.1	778.0	694.9	619.1	559.3	505.3	463.0	432.6
40°	830.5	881.2	888.5	837.5	754.7	669.1	588.8	529.1	476.5	437.9	407.2
42.5°	772.0	831.1	851.2	810.4	729.1	641.9	561.6	499.9	447.8	410.2	383.1
45°	673.7	752.0	788.3	764.9	686.3	597.1	514.5	451.9	404.7	369.3	348.3
47.5°	581.8	667.4	716.2	707.9	638.8	550.5	468.9	408.8	362.7	334.6	315.8
50°	516.8	604.8	663.7	666.4	604.8	517.2	435.2	378.6	336.4	310.0	294.7
52.5°	460.4	544.3	608.6	622.7	566.7	482.5	405.1	348.8	311.6	287.4	273.7
55°	386.6	457.5	528.9	554.8	509.9	429.9	358.3	308.7	273.8	257.1	245.1
57.5°	321.5	380.6	446.4	475.1	447.4	379.0	311.8	268.8	240.4	225.8	216.6
60°	287.0	333.7	392.3	426.6	402.6	341.7	283.0	242.1	218.8	205.8	197.2
62.5°	255.1	296.4	345.9	377.3	364.3	306.7	254.3	218.1	198.0	185.8	179.6
65°	210.4	243.1	281.4	310.4	301.8	258.1	215.2	184.1	168.2	158.5	153.6
67.5°	173.3	196.9	223.5	248.8	241.8	210.9	176.5	152.3	140.4	132.1	129.1
70°	149.9	167.8	191.5	211.8	206.2	180.8	153.6	132.9	122.5	115.6	112.5
72.5°	127.5	142.2	160.3	176.9	173.1	152.0	129.3	113.7	105.8	99.3	96.8
75°	96.2	107.5	118.6	129.6	128.6	112.3	98.9	86.9	80.6	75.6	74.6
77.5°	71.1	77.4	84.9	91.4	89.6	80.3	69.8	63.0	58.3	54.9	54.4
80°	54.3	58.0	63.3	67.9	65.6	61.6	53.3	48.3	44.9	41.6	40.3
82.5°	39.3	43.1	46.2	48.8	47.0	43.2	38.1	34.7	32.7	30.4	29.9
85°	20.7	22.6	24.0	24.6	24.0	21.7	19.4	18.0	16.3	15.3	15.0
87.5°	10.5	10.1	9.5	9.7	8.6	8.4	7.0	6.0	6.0	6.0	5.7
90°	12.8	10.3	7.8	6.0	4.5	3.2	1.9	0.5	1.9	3.2	4.5
92.5°	15.0	14.4	13.8	13.0	12.0	11.1	10.1	9.1	10.1	11.1	12.0
95°	32.1	31.8	31.7	30.9	29.9	28.7	27.6	26.5	27.6	28.7	29.9
97.5°	53.9	53.4	53.0	52.3	51.3	50.3	49.3	48.3	49.3	50.3	51.3
100°	69.5	69.2	68.8	68.2	67.3	66.3	65.5	64.6	65.5	66.3	67.3
102.5°	86.0	85.6	85.2	84.5	83.8	83.1	82.4	81.7	82.4	83.1	83.8
105°	111.4	111.2	110.9	110.7	110.3	110.0	109.7	109.3	109.7	110.0	110.3
107.5°	139.5	139.5	139.5	139.2	138.7	138.2	137.7	137.2	137.7	138.2	138.7
110°	158.1	158.1	158.1	157.8	157.1	156.4	155.8	155.1	155.8	156.4	157.1



TEST NUMBER: P331295-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	177.5	177.5	177.6	177.4	176.6	175.9	175.3	174.6	175.3	175.9	176.6
115°	205.9	206.1	206.3	206.1	205.5	204.7	204.1	203.4	204.1	204.7	205.5
117.5°	234.5	235.2	235.9	235.7	234.8	233.9	233.0	232.1	233.0	233.9	234.8
120°	253.0	253.9	254.9	254.9	253.9	253.0	252.1	251.2	252.1	253.0	253.9
122.5°	272.0	272.6	273.2	273.0	272.0	270.9	269.7	268.7	269.7	270.9	272.0
125°	299.7	300.0	300.3	300.0	299.0	298.0	296.9	296.0	296.9	298.0	299.0
127.5°	327.3	327.7	328.1	327.6	326.4	325.0	323.8	322.4	323.8	325.0	326.4
130°	345.2	345.4	345.6	345.0	343.6	342.1	340.6	339.2	340.6	342.1	343.6
132.5°	363.4	363.4	363.3	362.7	361.5	360.3	359.1	357.8	359.1	360.3	361.5
135°	389.1	388.8	388.6	387.9	386.6	385.4	384.1	382.9	384.1	385.4	386.6
137.5°	414.6	414.3	413.9	413.3	412.3	411.3	410.3	409.2	410.3	411.3	412.3
140°	431.1	430.5	430.0	429.2	428.1	427.1	426.1	425.1	426.1	427.1	428.1
142.5°	446.9	446.6	446.1	445.4	444.4	443.4	442.4	441.4	442.4	443.4	444.4
145°	470.0	469.3	468.7	468.0	467.2	466.4	465.6	464.8	465.6	466.4	467.2
147.5°	491.0	490.5	490.1	489.4	488.5	487.5	486.5	485.6	486.5	487.5	488.5
150°	504.0	503.5	503.1	502.6	501.9	501.2	500.5	499.9	500.5	501.2	501.9
152.5°	516.8	516.3	515.8	515.1	514.5	513.8	513.2	512.5	513.2	513.8	514.5
155°	533.8	533.4	533.1	532.7	532.4	532.1	531.7	531.4	531.7	532.1	532.4
157.5°	549.1	548.8	548.7	548.5	548.2	548.0	547.8	547.5	547.8	548.0	548.2
160°	558.6	558.5	558.4	558.2	557.9	557.8	557.5	557.3	557.5	557.8	557.9
162.5°	566.8	566.6	566.5	566.4	566.4	566.3	566.3	566.2	566.3	566.3	566.4
165°	577.7	577.7	577.7	577.7	577.8	577.9	578.0	578.2	578.0	577.9	577.8
167.5°	586.6	586.6	586.6	586.7	587.1	587.5	587.8	588.1	587.8	587.5	587.1
170°	591.6	591.7	591.8	592.1	592.4	592.7	593.1	593.4	593.1	592.7	592.4
172.5°	595.3	595.4	595.5	595.8	596.0	596.4	596.7	597.1	596.7	596.4	596.0
175°	599.5	599.7	599.9	600.2	600.6	600.8	601.2	601.5	601.2	600.8	600.6
177.5°	601.7	601.9	602.1	602.3	602.5	602.8	603.1	603.4	603.1	602.8	602.5
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



TEST NUMBER: P331295-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	855.1	853.5	847.8	844.9	840.2	835.6	832.7	834.0	835.1	834.6	833.7
5°	830.5	824.2	814.6	806.2	800.2	789.3	784.6	782.3	780.2	777.9	775.6
7.5°	801.4	791.4	777.6	765.7	754.5	740.8	733.1	728.3	723.5	718.3	713.6
10°	780.6	766.6	752.0	735.3	722.0	709.6	698.7	691.3	684.7	678.3	673.7
12.5°	758.8	742.6	724.5	701.8	687.1	669.4	667.8	654.9	644.4	640.5	635.1
15°	724.0	701.3	678.3	651.4	639.7	623.8	613.8	603.8	594.8	588.4	586.7
17.5°	684.5	655.1	632.3	613.0	593.9	577.5	568.3	560.3	552.9	544.4	543.3
20°	654.3	629.1	604.1	587.1	567.5	550.8	539.5	531.5	525.1	520.1	515.9
22.5°	625.9	598.2	575.3	556.7	537.3	523.9	515.0	507.3	502.0	496.5	492.4
25°	580.1	558.5	533.5	512.6	496.5	487.9	480.5	473.9	470.6	466.9	462.3
27.5°	540.1	516.0	492.7	476.4	462.4	454.7	449.5	445.0	441.8	439.7	437.0
30°	511.8	487.5	469.2	453.3	441.6	433.9	430.6	427.9	424.3	422.9	421.6
32.5°	484.6	462.8	447.1	433.3	422.1	417.1	414.1	411.7	408.8	407.5	404.8
35°	446.2	427.9	412.6	404.9	395.9	391.6	389.3	385.9	383.3	382.0	381.7
37.5°	410.1	394.1	384.1	374.3	370.4	367.7	364.6	362.3	361.5	361.3	361.0
40°	386.6	373.6	364.6	356.7	355.0	351.0	348.3	346.3	346.3	346.7	346.3
42.5°	365.3	353.7	345.7	338.9	336.9	334.5	331.8	331.7	332.3	333.3	332.3
45°	333.1	324.7	319.1	315.7	312.0	309.7	309.3	310.4	310.7	311.0	312.0
47.5°	303.3	297.7	292.7	289.0	287.4	287.0	286.6	288.3	289.9	290.5	292.0
50°	285.7	279.4	275.1	272.8	271.4	270.7	271.4	273.4	274.7	276.4	277.4
52.5°	266.0	261.5	258.6	256.7	256.2	256.6	256.7	259.0	261.2	261.7	262.3
55°	238.8	235.4	234.8	231.8	233.1	232.7	234.4	235.8	237.7	239.8	240.1
57.5°	211.6	208.9	207.1	207.4	207.8	209.3	210.6	213.0	215.2	217.2	217.5
60°	193.5	192.2	191.2	191.2	191.8	193.9	195.5	197.8	199.1	200.5	201.4
62.5°	177.0	175.7	174.6	175.1	176.9	178.1	180.0	181.3	182.6	184.0	184.4
65°	150.9	150.2	151.2	151.9	152.2	153.8	156.2	157.2	158.5	159.2	161.5
67.5°	126.8	127.0	126.8	127.8	129.7	130.1	132.2	134.6	134.9	136.2	137.7
70°	110.6	111.2	111.9	112.5	114.2	114.9	116.5	117.5	118.9	119.8	120.9
72.5°	95.7	95.8	96.5	96.3	97.7	99.2	100.6	101.6	102.9	104.2	105.1
75°	73.6	73.6	74.3	74.6	76.2	77.9	77.6	78.3	79.6	81.0	81.6
77.5°	53.8	53.1	53.8	54.0	54.6	56.0	56.3	57.2	58.8	58.3	59.0
80°	40.9	39.9	40.9	41.3	41.3	43.0	43.0	43.6	44.6	43.6	44.6
82.5°	29.2	28.8	29.5	29.6	30.1	30.1	30.7	30.9	31.8	31.4	31.8
85°	14.6	14.4	14.6	14.4	14.6	15.0	15.0	14.6	14.6	15.3	14.4
87.5°	5.7	5.8	6.1	6.6	6.8	7.0	6.7	6.7	6.6	6.1	6.1
90°	6.0	7.8	10.3	12.8	15.3	17.8	17.6	17.4	17.1	16.9	16.9
92.5°	13.0	13.8	14.4	15.0	15.6	16.1	16.2	16.2	16.3	16.3	16.4
95°	30.9	31.7	31.8	32.1	32.3	32.5	32.5	32.5	32.5	32.5	32.5
97.5°	52.3	53.0	53.4	53.9	54.3	54.8	54.8	54.8	54.8	54.8	54.7
100°	68.2	68.8	69.2	69.5	69.8	70.2	70.2	70.2	70.2	70.2	70.1
102.5°	84.5	85.2	85.6	86.0	86.4	86.9	86.9	87.0	87.1	87.2	87.2
105°	110.7	110.9	111.2	111.4	111.6	111.9	112.1	112.4	112.5	112.8	112.9
107.5°	139.2	139.5	139.5	139.5	139.5	139.5	139.6	139.6	139.7	139.8	139.6
110°	157.8	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.0



TEST NUMBER: P331295-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	177.4	177.6	177.5	177.5	177.4	177.3	177.0	176.7	176.5	176.2	175.9
115°	206.1	206.3	206.1	205.9	205.6	205.5	205.4	205.2	205.1	205.0	204.7
117.5°	235.7	235.9	235.2	234.5	233.9	233.3	233.0	232.7	232.5	232.2	231.9
120°	254.9	254.9	253.9	253.0	252.1	251.2	251.2	251.2	251.2	251.2	251.0
122.5°	273.0	273.2	272.6	272.0	271.3	270.7	270.5	270.2	269.9	269.7	269.4
125°	300.0	300.3	300.0	299.7	299.3	299.0	298.6	298.3	298.0	297.7	297.4
127.5°	327.6	328.1	327.7	327.3	326.9	326.5	326.0	325.7	325.2	324.9	324.4
130°	345.0	345.6	345.4	345.2	345.0	344.7	344.6	344.3	344.1	343.8	343.5
132.5°	362.7	363.3	363.4	363.4	363.5	363.5	363.0	362.5	361.9	361.5	361.1
135°	387.9	388.6	388.8	389.1	389.3	389.5	389.4	389.3	389.1	389.1	388.8
137.5°	413.3	413.9	414.3	414.6	414.8	415.1	415.0	414.9	414.8	414.7	414.5
140°	429.2	430.0	430.5	431.1	431.7	432.2	432.2	432.2	432.2	432.2	432.0
142.5°	445.4	446.1	446.6	446.9	447.3	447.6	447.7	447.8	447.9	448.0	447.8
145°	468.0	468.7	469.3	470.0	470.7	471.4	471.4	471.6	471.7	471.8	471.6
147.5°	489.4	490.1	490.5	491.0	491.4	492.0	492.1	492.4	492.7	492.9	492.8
150°	502.6	503.1	503.5	504.0	504.4	505.0	505.2	505.6	506.0	506.3	506.3
152.5°	515.1	515.8	516.3	516.8	517.4	518.0	518.4	518.8	519.2	519.7	519.7
155°	532.7	533.1	533.4	533.8	534.0	534.4	535.0	535.6	536.1	536.7	536.8
157.5°	548.5	548.7	548.8	549.1	549.3	549.5	550.3	551.0	551.8	552.6	552.7
160°	558.2	558.4	558.5	558.6	558.7	558.8	559.5	560.2	560.9	561.5	561.7
162.5°	566.4	566.5	566.6	566.8	566.9	566.9	567.8	568.5	569.3	570.1	570.2
165°	577.7	577.7	577.7	577.7	577.7	577.7	578.5	579.3	580.1	580.8	580.9
167.5°	586.7	586.6	586.6	586.6	586.5	586.5	587.3	588.1	588.9	589.7	589.8
170°	592.1	591.8	591.7	591.6	591.5	591.4	592.2	593.0	593.8	594.5	594.6
172.5°	595.8	595.5	595.4	595.3	595.1	595.0	595.8	596.6	597.4	598.2	598.2
175°	600.2	599.9	599.7	599.5	599.2	599.0	599.8	600.6	601.4	602.2	602.3
177.5°	602.3	602.1	601.9	601.7	601.5	601.4	601.9	602.4	603.0	603.5	603.5
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



TEST NUMBER: P331295-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	831.1	830.5	830.5	828.1	830.5	830.5	831.1	833.7	834.6	835.1	834.0
5°	771.0	769.9	768.3	769.9	768.3	769.9	771.0	775.6	777.9	780.2	782.3
7.5°	711.5	707.5	706.9	702.9	706.9	707.5	711.5	713.6	718.3	723.5	728.3
10°	668.1	665.4	665.0	658.7	665.0	665.4	668.1	673.7	678.3	684.7	691.3
12.5°	635.0	628.6	629.9	626.2	629.9	628.6	635.0	635.1	640.5	644.4	654.9
15°	577.7	577.7	576.5	570.8	576.5	577.7	577.7	586.7	588.4	594.8	603.8
17.5°	536.7	536.0	532.8	534.4	532.8	536.0	536.7	543.3	544.4	552.9	560.3
20°	512.2	510.1	506.2	506.2	506.2	510.1	512.2	515.9	520.1	525.1	531.5
22.5°	489.0	488.8	484.6	486.0	484.6	488.8	489.0	492.4	496.5	502.0	507.3
25°	461.9	459.2	457.3	458.3	457.3	459.2	461.9	462.3	466.9	470.6	473.9
27.5°	436.2	434.7	434.6	431.9	434.6	434.7	436.2	437.0	439.7	441.8	445.0
30°	421.2	417.9	418.6	417.0	418.6	417.9	421.2	421.6	422.9	424.3	427.9
32.5°	404.2	403.1	402.3	400.9	402.3	403.1	404.2	404.8	407.5	408.8	411.7
35°	380.9	381.3	379.6	380.3	379.6	381.3	380.9	381.7	382.0	383.3	385.9
37.5°	360.7	361.8	361.0	361.1	361.0	361.8	360.7	361.0	361.3	361.5	362.3
40°	347.3	347.3	347.3	348.3	347.3	347.3	347.3	346.3	346.7	346.3	346.3
42.5°	334.6	334.0	333.5	333.4	333.5	334.0	334.6	332.3	333.3	332.3	331.7
45°	312.7	313.7	314.1	312.4	314.1	313.7	312.7	312.0	311.0	310.7	310.4
47.5°	292.9	293.0	292.9	294.4	292.9	293.0	292.9	292.0	290.5	289.9	288.3
50°	279.1	278.4	279.1	278.4	279.1	278.4	279.1	277.4	276.4	274.7	273.4
52.5°	264.4	264.6	264.1	264.0	264.1	264.6	264.4	262.3	261.7	261.2	259.0
55°	241.5	242.1	241.7	241.7	241.7	242.1	241.5	240.1	239.8	237.7	235.8
57.5°	217.7	218.3	218.7	217.2	218.7	218.3	217.7	217.5	217.2	215.2	213.0
60°	201.2	202.8	202.5	201.8	202.5	202.8	201.2	201.4	200.5	199.1	197.8
62.5°	185.9	186.5	186.5	186.4	186.5	186.5	185.9	184.4	184.0	182.6	181.3
65°	162.5	163.2	162.2	163.2	162.2	163.2	162.5	161.5	159.2	158.5	157.2
67.5°	137.2	137.5	138.2	138.7	138.2	137.5	137.2	137.7	136.2	134.9	134.6
70°	121.5	121.2	122.3	123.2	122.3	121.2	121.5	120.9	119.8	118.9	117.5
72.5°	105.0	105.8	105.4	106.2	105.4	105.8	105.0	105.1	104.2	102.9	101.6
75°	81.0	81.9	81.6	82.6	81.6	81.9	81.0	81.6	81.0	79.6	78.3
77.5°	58.5	58.6	58.5	59.0	58.5	58.6	58.5	59.0	58.3	58.8	57.2
80°	44.6	44.0	43.2	44.6	43.2	44.0	44.6	44.6	43.6	44.6	43.6
82.5°	31.0	31.5	30.8	30.8	30.8	31.5	31.0	31.8	31.4	31.8	30.9
85°	14.4	14.0	13.3	13.3	13.3	14.0	14.4	14.4	15.3	14.6	14.6
87.5°	6.1	5.8	5.8	5.6	5.8	5.8	6.1	6.1	6.1	6.6	6.7
90°	16.9	17.0	17.2	17.3	17.2	17.0	16.9	16.9	16.9	17.1	17.4
92.5°	16.4	16.4	16.5	16.5	16.5	16.4	16.4	16.4	16.3	16.3	16.2
95°	32.2	32.0	31.7	31.6	31.7	32.0	32.2	32.5	32.5	32.5	32.5
97.5°	54.7	54.7	54.7	54.6	54.7	54.7	54.7	54.7	54.8	54.8	54.8
100°	70.0	69.9	69.8	69.6	69.8	69.9	70.0	70.1	70.2	70.2	70.2
102.5°	87.1	86.9	86.9	86.8	86.9	86.9	87.1	87.2	87.2	87.1	87.0
105°	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.9	112.8	112.5	112.4
107.5°	139.0	138.6	138.0	137.5	138.0	138.6	139.0	139.6	139.8	139.7	139.6
110°	157.7	157.3	156.9	156.6	156.9	157.3	157.7	158.0	158.1	158.1	158.1



TEST NUMBER: P331295-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	175.7	175.4	175.1	175.0	175.1	175.4	175.7	175.9	176.2	176.5	176.7
115°	204.4	204.1	203.8	203.4	203.8	204.1	204.4	204.7	205.0	205.1	205.2
117.5°	231.6	231.2	230.9	230.5	230.9	231.2	231.6	231.9	232.2	232.5	232.7
120°	250.7	250.4	250.0	249.7	250.0	250.4	250.7	251.0	251.2	251.2	251.2
122.5°	269.1	268.9	268.7	268.4	268.7	268.9	269.1	269.4	269.7	269.9	270.2
125°	297.3	297.2	297.0	296.9	297.0	297.2	297.3	297.4	297.7	298.0	298.3
127.5°	324.0	323.7	323.3	323.0	323.3	323.7	324.0	324.4	324.9	325.2	325.7
130°	343.0	342.6	342.1	341.7	342.1	342.6	343.0	343.5	343.8	344.1	344.3
132.5°	360.7	360.3	360.0	359.6	360.0	360.3	360.7	361.1	361.5	361.9	362.5
135°	388.5	388.2	387.8	387.4	387.8	388.2	388.5	388.8	389.1	389.1	389.3
137.5°	414.0	413.6	413.1	412.7	413.1	413.6	414.0	414.5	414.7	414.8	414.9
140°	431.5	431.1	430.6	430.2	430.6	431.1	431.5	432.0	432.2	432.2	432.2
142.5°	447.4	446.9	446.5	446.0	446.5	446.9	447.4	447.8	448.0	447.9	447.8
145°	471.2	470.7	470.3	469.8	470.3	470.7	471.2	471.6	471.8	471.7	471.6
147.5°	492.4	492.0	491.5	491.1	491.5	492.0	492.4	492.8	492.9	492.7	492.4
150°	506.0	505.6	505.2	505.0	505.2	505.6	506.0	506.3	506.3	506.0	505.6
152.5°	519.2	518.8	518.4	518.0	518.4	518.8	519.2	519.7	519.7	519.2	518.8
155°	536.5	536.1	535.7	535.5	535.7	536.1	536.5	536.8	536.7	536.1	535.6
157.5°	552.1	551.6	551.1	550.5	551.1	551.6	552.1	552.7	552.6	551.8	551.0
160°	561.2	560.8	560.3	559.8	560.3	560.8	561.2	561.7	561.5	560.9	560.2
162.5°	569.6	569.1	568.6	568.0	568.6	569.1	569.6	570.2	570.1	569.3	568.5
165°	580.3	579.8	579.3	578.6	579.3	579.8	580.3	580.9	580.8	580.1	579.3
167.5°	589.2	588.6	588.0	587.4	588.0	588.6	589.2	589.8	589.7	588.9	588.1
170°	593.9	593.3	592.5	591.9	592.5	593.3	593.9	594.6	594.5	593.8	593.0
172.5°	597.6	596.9	596.2	595.6	596.2	596.9	597.6	598.2	598.2	597.4	596.6
175°	601.5	600.8	600.2	599.5	600.2	600.8	601.5	602.3	602.2	601.4	600.6
177.5°	603.0	602.4	601.9	601.4	601.9	602.4	603.0	603.5	603.5	603.0	602.4
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



TEST NUMBER: P331295-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	832.7	835.6	840.2	844.9	847.8	853.5	855.1	857.7	860.1	865.7	871.6
5°	784.6	789.3	800.2	806.2	814.6	824.2	830.5	837.2	844.5	857.2	868.9
7.5°	733.1	740.8	754.5	765.7	777.6	791.4	801.4	814.6	825.5	843.3	860.4
10°	698.7	709.6	722.0	735.3	752.0	766.6	780.6	797.3	810.6	831.9	851.9
12.5°	667.8	669.4	687.1	701.8	724.5	742.6	758.8	780.2	793.3	818.6	839.6
15°	613.8	623.8	639.7	651.4	678.3	701.3	724.0	746.3	761.3	792.6	820.2
17.5°	568.3	577.5	593.9	613.0	632.3	655.1	684.5	708.0	728.3	764.1	796.8
20°	539.5	550.8	567.5	587.1	604.1	629.1	654.3	681.4	703.3	743.6	781.9
22.5°	515.0	523.9	537.3	556.7	575.3	598.2	625.9	655.2	678.3	721.8	760.6
25°	480.5	487.9	496.5	512.6	533.5	558.5	580.1	612.4	646.0	686.7	733.6
27.5°	449.5	454.7	462.4	476.4	492.7	516.0	540.1	570.7	604.6	648.6	698.2
30°	430.6	433.9	441.6	453.3	469.2	487.5	511.8	541.2	575.8	620.5	669.7
32.5°	414.1	417.1	422.1	433.3	447.1	462.8	484.6	514.0	547.0	590.8	645.4
35°	389.3	391.6	395.9	404.9	412.6	427.9	446.2	472.9	503.8	545.8	602.4
37.5°	364.6	367.7	370.4	374.3	384.1	394.1	410.1	432.6	463.0	505.3	559.3
40°	348.3	351.0	355.0	356.7	364.6	373.6	386.6	407.2	437.9	476.5	529.1
42.5°	331.8	334.5	336.9	338.9	345.7	353.7	365.3	383.1	410.2	447.8	499.9
45°	309.3	309.7	312.0	315.7	319.1	324.7	333.1	348.3	369.3	404.7	451.9
47.5°	286.6	287.0	287.4	289.0	292.7	297.7	303.3	315.8	334.6	362.7	408.8
50°	271.4	270.7	271.4	272.8	275.1	279.4	285.7	294.7	310.0	336.4	378.6
52.5°	256.7	256.6	256.2	256.7	258.6	261.5	266.0	273.7	287.4	311.6	348.8
55°	234.4	232.7	233.1	231.8	234.8	235.4	238.8	245.1	257.1	273.8	308.7
57.5°	210.6	209.3	207.8	207.4	207.1	208.9	211.6	216.6	225.8	240.4	268.8
60°	195.5	193.9	191.8	191.2	191.2	192.2	193.5	197.2	205.8	218.8	242.1
62.5°	180.0	178.1	176.9	175.1	174.6	175.7	177.0	179.6	185.8	198.0	218.1
65°	156.2	153.8	152.2	151.9	151.2	150.2	150.9	153.6	158.5	168.2	184.1
67.5°	132.2	130.1	129.7	127.8	126.8	127.0	126.8	129.1	132.1	140.4	152.3
70°	116.5	114.9	114.2	112.5	111.9	111.2	110.6	112.5	115.6	122.5	132.9
72.5°	100.6	99.2	97.7	96.3	96.5	95.8	95.7	96.8	99.3	105.8	113.7
75°	77.6	77.9	76.2	74.6	74.3	73.6	73.6	74.6	75.6	80.6	86.9
77.5°	56.3	56.0	54.6	54.0	53.8	53.1	53.8	54.4	54.9	58.3	63.0
80°	43.0	43.0	41.3	41.3	40.9	39.9	40.9	40.3	41.6	44.9	48.3
82.5°	30.7	30.1	30.1	29.6	29.5	28.8	29.2	29.9	30.4	32.7	34.7
85°	15.0	15.0	14.6	14.4	14.6	14.4	14.6	15.0	15.3	16.3	18.0
87.5°	6.7	7.0	6.8	6.6	6.1	5.8	5.7	5.7	6.0	6.0	6.0
90°	17.6	17.8	15.3	12.8	10.3	7.8	6.0	4.5	3.2	1.9	0.5
92.5°	16.2	16.1	15.6	15.0	14.4	13.8	13.0	12.0	11.1	10.1	9.1
95°	32.5	32.5	32.3	32.1	31.8	31.7	30.9	29.9	28.7	27.6	26.5
97.5°	54.8	54.8	54.3	53.9	53.4	53.0	52.3	51.3	50.3	49.3	48.3
100°	70.2	70.2	69.8	69.5	69.2	68.8	68.2	67.3	66.3	65.5	64.6
102.5°	86.9	86.9	86.4	86.0	85.6	85.2	84.5	83.8	83.1	82.4	81.7
105°	112.1	111.9	111.6	111.4	111.2	110.9	110.7	110.3	110.0	109.7	109.3
107.5°	139.6	139.5	139.5	139.5	139.5	139.5	139.2	138.7	138.2	137.7	137.2
110°	158.1	158.1	158.1	158.1	158.1	158.1	157.8	157.1	156.4	155.8	155.1



TEST NUMBER: P331295-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	177.0	177.3	177.4	177.5	177.5	177.6	177.4	176.6	175.9	175.3	174.6
115°	205.4	205.5	205.6	205.9	206.1	206.3	206.1	205.5	204.7	204.1	203.4
117.5°	233.0	233.3	233.9	234.5	235.2	235.9	235.7	234.8	233.9	233.0	232.1
120°	251.2	251.2	252.1	253.0	253.9	254.9	254.9	253.9	253.0	252.1	251.2
122.5°	270.5	270.7	271.3	272.0	272.6	273.2	273.0	272.0	270.9	269.7	268.7
125°	298.6	299.0	299.3	299.7	300.0	300.3	300.0	299.0	298.0	296.9	296.0
127.5°	326.0	326.5	326.9	327.3	327.7	328.1	327.6	326.4	325.0	323.8	322.4
130°	344.6	344.7	345.0	345.2	345.4	345.6	345.0	343.6	342.1	340.6	339.2
132.5°	363.0	363.5	363.5	363.4	363.4	363.3	362.7	361.5	360.3	359.1	357.8
135°	389.4	389.5	389.3	389.1	388.8	388.6	387.9	386.6	385.4	384.1	382.9
137.5°	415.0	415.1	414.8	414.6	414.3	413.9	413.3	412.3	411.3	410.3	409.2
140°	432.2	432.2	431.7	431.1	430.5	430.0	429.2	428.1	427.1	426.1	425.1
142.5°	447.7	447.6	447.3	446.9	446.6	446.1	445.4	444.4	443.4	442.4	441.4
145°	471.4	471.4	470.7	470.0	469.3	468.7	468.0	467.2	466.4	465.6	464.8
147.5°	492.1	492.0	491.4	491.0	490.5	490.1	489.4	488.5	487.5	486.5	485.6
150°	505.2	505.0	504.4	504.0	503.5	503.1	502.6	501.9	501.2	500.5	499.9
152.5°	518.4	518.0	517.4	516.8	516.3	515.8	515.1	514.5	513.8	513.2	512.5
155°	535.0	534.4	534.0	533.8	533.4	533.1	532.7	532.4	532.1	531.7	531.4
157.5°	550.3	549.5	549.3	549.1	548.8	548.7	548.5	548.2	548.0	547.8	547.5
160°	559.5	558.8	558.7	558.6	558.5	558.4	558.2	557.9	557.8	557.5	557.3
162.5°	567.8	566.9	566.9	566.8	566.6	566.5	566.4	566.4	566.3	566.3	566.2
165°	578.5	577.7	577.7	577.7	577.7	577.7	577.7	577.8	577.9	578.0	578.2
167.5°	587.3	586.5	586.5	586.6	586.6	586.6	586.7	587.1	587.5	587.8	588.1
170°	592.2	591.4	591.5	591.6	591.7	591.8	592.1	592.4	592.7	593.1	593.4
172.5°	595.8	595.0	595.1	595.3	595.4	595.5	595.8	596.0	596.4	596.7	597.1
175°	599.8	599.0	599.2	599.5	599.7	599.9	600.2	600.6	600.8	601.2	601.5
177.5°	601.9	601.4	601.5	601.7	601.9	602.1	602.3	602.5	602.8	603.1	603.4
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



TEST NUMBER: P331295-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	871.0	872.4	876.6	880.9	885.6	887.0	889.1	887.3	886.7	891.8	895.5
5°	873.5	879.5	891.2	901.8	910.8	917.1	923.8	926.5	931.5	938.4	947.1
7.5°	870.7	882.3	900.7	916.2	933.1	945.3	954.8	963.0	972.8	986.1	1000.5
10°	867.5	883.2	905.4	924.4	945.1	960.7	973.7	986.4	1001.0	1019.4	1038.3
12.5°	861.7	880.2	908.1	930.6	957.1	972.5	990.0	1017.3	1033.0	1058.5	1085.2
15°	849.9	870.5	909.5	937.1	967.1	996.4	1028.7	1054.6	1080.7	1095.6	1133.3
17.5°	832.3	862.6	905.8	938.1	976.2	1022.3	1058.5	1088.1	1118.0	1142.3	1161.2
20°	818.2	851.2	900.4	939.1	984.4	1034.0	1075.7	1105.6	1131.6	1151.9	1163.6
22.5°	800.4	841.9	889.8	935.1	992.9	1042.1	1085.7	1109.4	1131.0	1140.9	1145.4
25°	772.2	822.2	876.5	931.7	997.0	1049.0	1089.0	1103.3	1109.6	1099.9	1084.0
27.5°	742.0	797.6	861.1	925.5	994.5	1044.5	1073.1	1070.9	1060.2	1028.9	1003.9
30°	719.3	780.6	848.8	919.1	988.4	1037.0	1053.6	1037.0	1012.7	977.8	942.1
32.5°	695.6	759.0	835.8	910.1	977.2	1019.9	1023.6	994.9	957.3	917.6	873.1
35°	659.7	728.3	811.2	889.8	953.4	980.4	964.4	913.8	869.2	814.9	754.3
37.5°	619.1	694.9	778.0	860.1	917.8	924.9	885.2	831.9	768.9	705.2	633.8
40°	588.8	669.1	754.7	837.5	888.5	881.2	830.5	772.0	697.0	619.1	552.8
42.5°	561.6	641.9	729.1	810.4	851.2	831.1	772.0	700.0	619.5	546.1	485.4
45°	514.5	597.1	686.3	764.9	788.3	752.0	673.7	593.8	514.5	453.3	405.3
47.5°	468.9	550.5	638.8	707.9	716.2	667.4	581.8	499.6	431.5	381.6	347.8
50°	435.2	517.2	604.8	666.4	663.7	604.8	516.8	438.5	381.7	341.3	318.7
52.5°	405.1	482.5	566.7	622.7	608.6	544.3	460.4	390.9	344.1	312.5	292.0
55°	358.3	429.9	509.9	554.8	528.9	457.5	386.6	330.6	296.0	272.4	256.5
57.5°	311.8	379.0	447.4	475.1	446.4	380.6	321.5	280.9	254.9	237.3	226.9
60°	283.0	341.7	402.6	426.6	392.3	333.7	287.0	250.7	229.8	215.4	206.2
62.5°	254.3	306.7	364.3	377.3	345.9	296.4	255.1	224.9	207.7	194.9	186.2
65°	215.2	258.1	301.8	310.4	281.4	243.1	210.4	190.8	175.5	166.2	159.2
67.5°	176.5	210.9	241.8	248.8	223.5	196.9	173.3	156.2	145.8	138.0	132.2
70°	153.6	180.8	206.2	211.8	191.5	167.8	149.9	136.2	126.9	120.2	114.6
72.5°	129.3	152.0	173.1	176.9	160.3	142.2	127.5	116.7	108.5	104.2	98.8
75°	98.9	112.3	128.6	129.6	118.6	107.5	96.2	89.3	84.9	79.6	77.0
77.5°	69.8	80.3	89.6	91.4	84.9	77.4	71.1	65.5	61.9	59.4	57.0
80°	53.3	61.6	65.6	67.9	63.3	58.0	54.3	50.6	48.3	46.6	44.9
82.5°	38.1	43.2	47.0	48.8	46.2	43.1	39.3	37.3	35.5	34.1	33.5
85°	19.4	21.7	24.0	24.6	24.0	22.6	20.7	20.7	19.6	19.4	19.4
87.5°	7.0	8.4	8.6	9.7	9.5	10.1	10.5	10.8	11.1	10.7	10.4
90°	1.9	3.2	4.5	6.0	7.8	10.3	12.8	15.3	17.8	17.6	17.4
92.5°	10.1	11.1	12.0	13.0	13.8	14.4	15.0	15.6	16.1	16.2	16.2
95°	27.6	28.7	29.9	30.9	31.7	31.8	32.1	32.3	32.5	32.5	32.5
97.5°	49.3	50.3	51.3	52.3	53.0	53.4	53.9	54.3	54.8	54.8	54.8
100°	65.5	66.3	67.3	68.2	68.8	69.2	69.5	69.8	70.2	70.2	70.2
102.5°	82.4	83.1	83.8	84.5	85.2	85.6	86.0	86.4	86.9	86.9	87.0
105°	109.7	110.0	110.3	110.7	110.9	111.2	111.4	111.6	111.9	112.1	112.4
107.5°	137.7	138.2	138.7	139.2	139.5	139.5	139.5	139.5	139.5	139.6	139.6
110°	155.8	156.4	157.1	157.8	158.1	158.1	158.1	158.1	158.1	158.1	158.1



TEST NUMBER: P331295-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	175.3	175.9	176.6	177.4	177.6	177.5	177.5	177.4	177.3	177.0	176.7
115°	204.1	204.7	205.5	206.1	206.3	206.1	205.9	205.6	205.5	205.4	205.2
117.5°	233.0	233.9	234.8	235.7	235.9	235.2	234.5	233.9	233.3	233.0	232.7
120°	252.1	253.0	253.9	254.9	254.9	253.9	253.0	252.1	251.2	251.2	251.2
122.5°	269.7	270.9	272.0	273.0	273.2	272.6	272.0	271.3	270.7	270.5	270.2
125°	296.9	298.0	299.0	300.0	300.3	300.0	299.7	299.3	299.0	298.6	298.3
127.5°	323.8	325.0	326.4	327.6	328.1	327.7	327.3	326.9	326.5	326.0	325.7
130°	340.6	342.1	343.6	345.0	345.6	345.4	345.2	345.0	344.7	344.6	344.3
132.5°	359.1	360.3	361.5	362.7	363.3	363.4	363.4	363.5	363.5	363.0	362.5
135°	384.1	385.4	386.6	387.9	388.6	388.8	389.1	389.3	389.5	389.4	389.3
137.5°	410.3	411.3	412.3	413.3	413.9	414.3	414.6	414.8	415.1	415.0	414.9
140°	426.1	427.1	428.1	429.2	430.0	430.5	431.1	431.7	432.2	432.2	432.2
142.5°	442.4	443.4	444.4	445.4	446.1	446.6	446.9	447.3	447.6	447.7	447.8
145°	465.6	466.4	467.2	468.0	468.7	469.3	470.0	470.7	471.4	471.4	471.6
147.5°	486.5	487.5	488.5	489.4	490.1	490.5	491.0	491.4	492.0	492.1	492.4
150°	500.5	501.2	501.9	502.6	503.1	503.5	504.0	504.4	505.0	505.2	505.6
152.5°	513.2	513.8	514.5	515.1	515.8	516.3	516.8	517.4	518.0	518.4	518.8
155°	531.7	532.1	532.4	532.7	533.1	533.4	533.8	534.0	534.4	535.0	535.6
157.5°	547.8	548.0	548.2	548.5	548.7	548.8	549.1	549.3	549.5	550.3	551.0
160°	557.5	557.8	557.9	558.2	558.4	558.5	558.6	558.7	558.8	559.5	560.2
162.5°	566.3	566.3	566.4	566.4	566.5	566.6	566.8	566.9	566.9	567.8	568.5
165°	578.0	577.9	577.8	577.7	577.7	577.7	577.7	577.7	577.7	578.5	579.3
167.5°	587.8	587.5	587.1	586.7	586.6	586.6	586.6	586.5	586.5	587.3	588.1
170°	593.1	592.7	592.4	592.1	591.8	591.7	591.6	591.5	591.4	592.2	593.0
172.5°	596.7	596.4	596.0	595.8	595.5	595.4	595.3	595.1	595.0	595.8	596.6
175°	601.2	600.8	600.6	600.2	599.9	599.7	599.5	599.2	599.0	599.8	600.6
177.5°	603.1	602.8	602.5	602.3	602.1	601.9	601.7	601.5	601.4	601.9	602.4
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	898.8	902.5	902.5	903.0	907.2	906.8	906.5
5°	956.4	962.1	962.8	968.8	972.8	971.4	967.8
7.5°	1010.8	1021.4	1029.4	1033.8	1039.1	1042.3	1040.9
10°	1054.0	1069.3	1078.6	1084.9	1092.6	1098.3	1096.3
12.5°	1093.1	1111.4	1124.2	1135.1	1136.0	1143.4	1138.4
15°	1154.2	1173.6	1175.5	1183.6	1189.9	1189.2	1189.5
17.5°	1174.4	1180.6	1181.9	1182.1	1182.1	1179.8	1174.7
20°	1167.2	1164.9	1159.2	1154.9	1147.3	1146.2	1139.6
22.5°	1133.1	1125.7	1111.5	1102.2	1090.2	1087.1	1085.2
25°	1066.0	1049.6	1027.0	1005.4	999.3	987.7	991.0
27.5°	973.8	948.4	923.9	906.3	890.5	873.0	878.0
30°	909.1	880.5	845.9	819.2	802.3	785.6	782.6
32.5°	831.9	789.9	751.3	727.8	701.8	691.3	679.8
35°	698.7	657.7	619.4	586.5	567.5	552.8	539.5
37.5°	578.8	531.7	500.8	474.1	460.4	452.0	454.1
40°	504.5	463.2	440.6	420.3	407.6	401.6	403.0
42.5°	444.3	413.4	394.8	380.8	371.9	368.5	367.7
45°	375.9	358.6	343.3	335.4	331.0	327.3	325.0
47.5°	329.4	315.2	306.6	301.8	298.0	294.4	294.3
50°	301.4	292.0	286.1	281.1	278.0	275.4	277.8
52.5°	280.1	271.5	265.6	261.1	259.9	257.5	257.5
55°	248.4	241.7	237.5	233.4	231.5	230.2	228.5
57.5°	219.6	213.3	209.4	206.8	203.0	201.7	201.2
60°	199.1	194.1	190.1	186.8	185.1	182.5	182.5
62.5°	180.2	175.2	171.5	169.0	166.2	165.1	165.4
65°	152.8	148.8	145.2	142.5	141.9	139.9	140.5
67.5°	127.7	125.0	121.2	119.7	118.4	117.3	116.5
70°	110.9	108.3	106.2	104.2	103.3	103.3	103.3
72.5°	96.8	93.5	92.4	89.9	90.4	89.3	88.3
75°	74.9	72.9	72.0	70.9	69.3	69.3	69.3
77.5°	55.1	54.6	53.3	52.3	51.9	51.5	51.7
80°	42.6	42.3	41.6	41.6	40.9	40.7	39.9
82.5°	32.7	31.9	31.5	31.2	31.1	31.0	30.9
85°	18.6	18.0	18.0	18.3	17.7	17.7	18.0
87.5°	10.6	10.6	10.3	10.3	10.6	10.3	10.3
90°	17.1	16.9	16.9	16.9	17.0	17.2	17.3
92.5°	16.3	16.3	16.4	16.4	16.4	16.5	16.5
95°	32.5	32.5	32.5	32.2	32.0	31.7	31.6
97.5°	54.8	54.8	54.7	54.7	54.7	54.7	54.6
100°	70.2	70.2	70.1	70.0	69.9	69.8	69.6
102.5°	87.1	87.2	87.2	87.1	86.9	86.9	86.8
105°	112.5	112.8	112.9	112.9	112.9	112.9	112.9
107.5°	139.7	139.8	139.6	139.0	138.6	138.0	137.5
110°	158.1	158.1	158.0	157.7	157.3	156.9	156.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	176.5	176.2	175.9	175.7	175.4	175.1	175.0
115°	205.1	205.0	204.7	204.4	204.1	203.8	203.4
117.5°	232.5	232.2	231.9	231.6	231.2	230.9	230.5
120°	251.2	251.2	251.0	250.7	250.4	250.0	249.7
122.5°	269.9	269.7	269.4	269.1	268.9	268.7	268.4
125°	298.0	297.7	297.4	297.3	297.2	297.0	296.9
127.5°	325.2	324.9	324.4	324.0	323.7	323.3	323.0
130°	344.1	343.8	343.5	343.0	342.6	342.1	341.7
132.5°	361.9	361.5	361.1	360.7	360.3	360.0	359.6
135°	389.1	389.1	388.8	388.5	388.2	387.8	387.4
137.5°	414.8	414.7	414.5	414.0	413.6	413.1	412.7
140°	432.2	432.2	432.0	431.5	431.1	430.6	430.2
142.5°	447.9	448.0	447.8	447.4	446.9	446.5	446.0
145°	471.7	471.8	471.6	471.2	470.7	470.3	469.8
147.5°	492.7	492.9	492.8	492.4	492.0	491.5	491.1
150°	506.0	506.3	506.3	506.0	505.6	505.2	505.0
152.5°	519.2	519.7	519.7	519.2	518.8	518.4	518.0
155°	536.1	536.7	536.8	536.5	536.1	535.7	535.5
157.5°	551.8	552.6	552.7	552.1	551.6	551.1	550.5
160°	560.9	561.5	561.7	561.2	560.8	560.3	559.8
162.5°	569.3	570.1	570.2	569.6	569.1	568.6	568.0
165°	580.1	580.8	580.9	580.3	579.8	579.3	578.6
167.5°	588.9	589.7	589.8	589.2	588.6	588.0	587.4
170°	593.8	594.5	594.6	593.9	593.3	592.5	591.9
172.5°	597.4	598.2	598.2	597.6	596.9	596.2	595.6
175°	601.4	602.2	602.3	601.5	600.8	600.2	599.5
177.5°	603.0	603.5	603.5	603.0	602.4	601.9	601.4
180°	602.5	602.5	602.5	602.5	602.5	602.5	602.5

(END OF REPORT)