

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: P331296-940

Luminaire Tested: **S122DIP-S485D530U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331296-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
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-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3754.2 lumens
Efficiency: N/A
Efficacy: 114.5 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

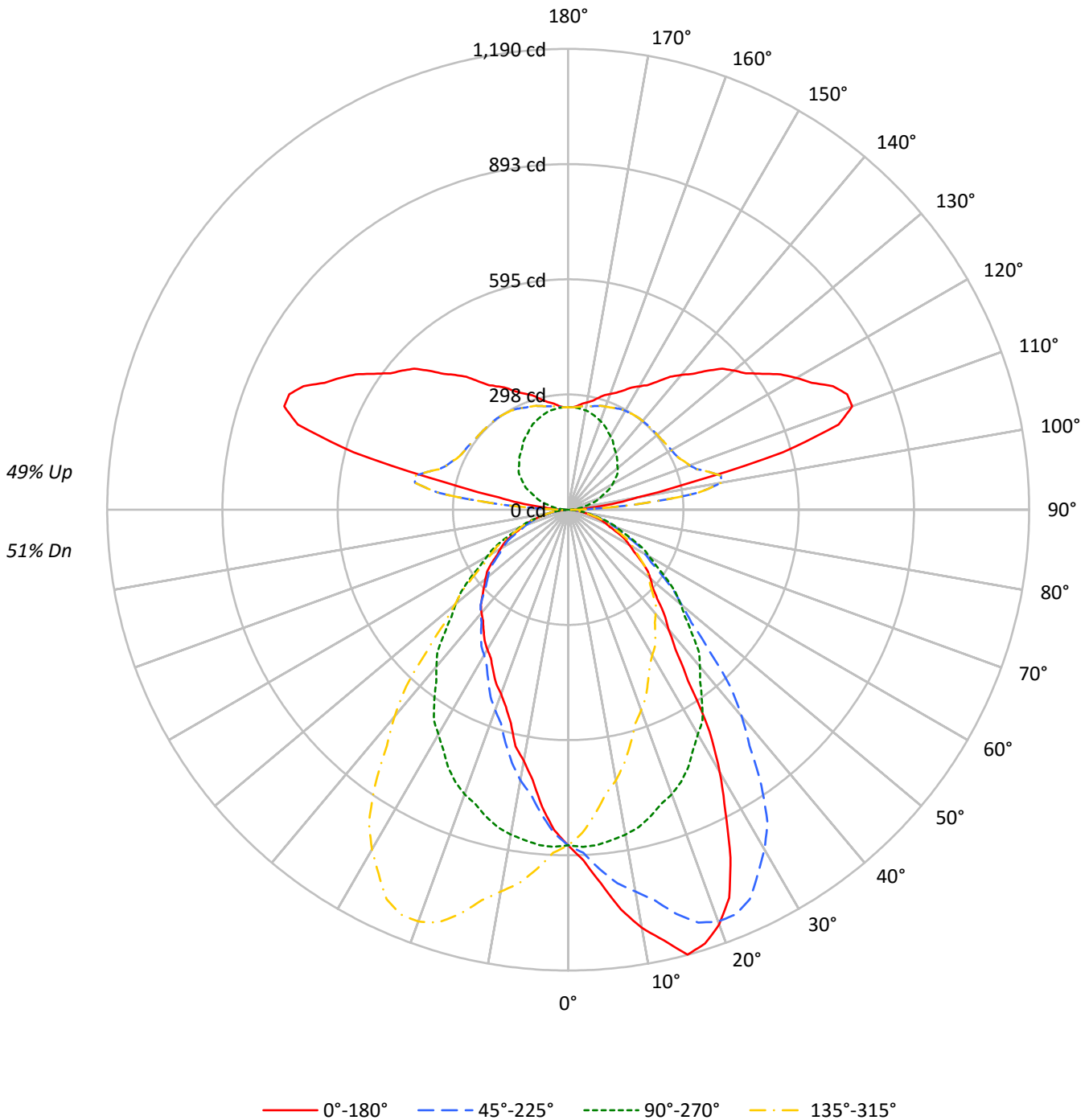
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51	51	51	51	51	51	51		
1	98	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44	44	44	44	44	44	44		
2	90	83	77	72	83	77	72	67	66	62	59	55	53	50	46	44	42	38	38	38	38	38	38	38		
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32	32	32	32	32	32	32		
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28	28	28	28	28	28	28		
5	70	58	50	45	64	54	47	42	47	42	37	40	36	33	33	30	28	25	25	25	25	25	25	25		
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	31	27	25	22	22	22	22	22	22	22		
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	22	20	20	20	20	20	20	20		
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	23	20	18	18	18	18	18	18	18		
9	52	40	32	27	48	37	31	26	33	27	23	28	24	21	24	21	18	16	16	16	16	16	16	16		
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15	15	15	15	15	15	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	2.2
10°-20°	239.9	6.4
20°-30°	348.2	9.3
30°-40°	367.4	9.8
40°-50°	325.3	8.7
50°-60°	259.6	6.9
60°-70°	176.5	4.7
70°-80°	90.5	2.4
80°-90°	24.2	0.6
90°-100°	105.7	2.8
100°-110°	358.8	9.6
110°-120°	381.2	10.2
120°-130°	313.8	8.4
130°-140°	252.0	6.7
140°-150°	190.4	5.1
150°-160°	133.8	3.6
160°-170°	78.8	2.1
170°-180°	25.6	0.7
0°-30°	670.6	17.9
0°-40°	1038.0	27.6
0°-60°	1623.0	43.2
0°-90°	1914.1	51.0
90°-120°	845.7	22.5
90°-150°	1601.9	42.7
90°-180°	1840.0	49.0
0°-180°	3754.2	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	10
95°	58	18	58	18	58	75
105°	573	62	573	62	573	555
115°	754	109	754	109	754	738
125°	612	153	612	153	612	553
135°	507	179	507	179	507	394
145°	405	204	405	204	405	257
155°	340	232	340	232	340	159
165°	298	253	298	253	298	85
175°	269	264	269	264	269	26
180°	264	264	264	264	264	



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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	10.5	10.3	10.3	10.4	10.3	10.2	10.5	10.9	11.1
90°	16.8	16.8	16.8	16.8	16.8	16.2	15.2	16.2	16.8	17.3	16.8
92.5°	28.2	29.0	28.6	30.2	30.6	33.8	38.1	44.3	55.8	66.1	65.2
95°	58.0	57.4	59.0	63.0	69.6	80.9	102.2	133.2	174.4	199.4	176.5
97.5°	114.1	118.4	125.8	138.3	162.6	199.4	254.4	310.9	357.0	340.3	256.3
100°	182.1	191.2	206.0	227.8	270.0	331.5	401.3	464.3	474.9	401.7	276.6
102.5°	320.4	332.8	351.2	388.5	434.4	499.6	550.5	564.8	518.9	403.8	268.9
105°	573.1	580.2	602.1	633.6	665.1	682.0	675.3	617.9	512.1	376.8	253.8
107.5°	732.1	741.5	745.9	747.6	743.7	719.1	666.2	579.6	467.4	347.9	246.2
110°	780.1	780.6	776.1	766.3	744.5	702.8	637.7	546.7	439.3	334.1	244.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	779.3	776.5	767.9	751.7	721.3	673.5	604.0	516.6	419.8	325.1	245.0
115°	754.1	749.6	736.4	712.9	676.9	624.5	557.9	479.6	395.7	315.3	247.2
117.5°	709.3	705.4	691.5	666.8	630.0	580.9	520.4	451.7	380.4	310.5	250.8
120°	680.4	675.3	660.6	636.7	601.1	554.8	500.9	437.8	372.3	307.6	253.2
122.5°	650.3	646.0	632.9	609.4	577.5	535.7	484.6	426.9	365.3	306.0	256.1
125°	611.8	607.7	594.9	575.7	546.2	508.0	463.2	410.9	355.4	303.1	260.4
127.5°	578.0	574.7	563.7	545.6	520.0	484.7	442.6	395.1	346.3	301.4	264.7
130°	558.8	554.8	544.7	527.4	502.4	468.9	428.7	385.0	340.2	300.5	268.0
132.5°	539.0	535.3	525.9	508.6	484.1	452.6	415.7	375.2	335.3	300.1	271.3
135°	507.0	505.0	495.8	479.0	457.2	428.7	395.1	361.6	328.5	299.5	275.1
137.5°	475.6	472.6	464.6	450.1	430.3	405.4	378.8	350.7	323.7	299.4	278.6
140°	454.1	451.0	443.4	430.3	413.9	391.6	368.2	343.8	320.9	299.0	280.2
142.5°	432.6	431.9	425.2	413.1	397.7	379.0	358.8	338.0	318.1	299.0	281.4
145°	404.7	403.2	398.1	389.5	377.4	362.6	346.8	330.0	314.2	298.0	282.8
147.5°	381.5	380.6	377.1	370.2	360.2	349.4	337.1	323.9	310.4	296.1	283.1
150°	367.7	367.1	364.1	358.0	350.4	341.3	330.6	319.3	307.2	295.0	282.8
152.5°	355.9	355.8	353.6	348.2	342.2	334.3	325.3	314.9	304.3	292.9	282.0
155°	340.2	341.3	339.2	335.6	330.0	324.4	316.8	308.7	299.0	289.4	280.7
157.5°	326.9	326.9	326.0	323.0	319.1	314.7	308.3	301.5	294.0	285.7	278.4
160°	318.3	318.3	317.8	315.3	311.7	308.2	302.6	296.9	290.3	283.3	277.1
162.5°	310.2	310.6	310.1	308.4	304.8	302.1	297.3	292.5	287.1	281.2	275.9
165°	298.5	299.0	299.0	296.9	295.0	292.9	289.4	285.8	281.7	277.1	273.6
167.5°	287.8	288.4	288.5	287.3	286.4	284.5	282.1	279.4	276.4	273.6	271.3
170°	281.2	282.2	282.8	281.2	280.7	279.7	277.7	276.2	273.6	271.5	270.0
172.5°	275.9	276.5	277.1	276.3	275.8	275.2	273.6	272.5	270.7	269.1	268.4
175°	269.0	270.0	270.5	270.0	270.0	269.6	269.0	268.5	267.0	266.4	266.0
177.5°	264.8	265.6	266.1	266.1	266.1	266.1	265.6	265.6	264.8	264.4	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



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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°	10.7	10.0	9.5	9.7	8.7	8.6	7.0	6.0	6.0	6.2	5.8
90°	13.7	10.2	7.7	6.1	5.1	4.1	2.1	0.5	2.1	4.1	5.1
92.5°	50.7	34.6	23.1	18.3	14.9	12.6	8.9	6.2	8.9	12.6	14.9
95°	117.4	73.2	49.8	37.6	29.5	24.9	19.8	17.8	19.8	24.9	29.5
97.5°	158.3	96.7	67.2	53.4	44.1	37.1	31.7	29.0	31.7	37.1	44.1
100°	166.8	104.8	77.8	63.6	53.4	45.3	40.7	39.1	40.7	45.3	53.4
102.5°	167.2	112.1	87.1	72.9	62.3	54.2	49.7	48.5	49.7	54.2	62.3
105°	169.9	124.6	100.7	86.4	75.3	67.6	64.1	62.1	64.1	67.6	75.3
107.5°	176.8	137.4	114.2	99.9	88.8	81.8	78.3	76.7	78.3	81.8	88.8
110°	182.5	146.0	123.6	108.8	98.2	91.6	88.5	86.4	88.5	91.6	98.2



TEST NUMBER: P331296-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	188.7	154.1	132.5	117.3	107.1	100.9	97.5	95.4	97.5	100.9	107.1
115°	197.8	166.8	144.9	131.2	121.0	114.9	111.9	109.3	111.9	114.9	121.0
117.5°	207.6	178.5	158.3	144.0	134.3	128.9	125.8	123.8	125.8	128.9	134.3
120°	214.1	186.6	166.8	152.6	142.4	137.8	134.7	132.7	134.7	137.8	142.4
122.5°	219.8	194.4	175.8	161.1	151.0	146.0	142.9	141.2	142.9	146.0	151.0
125°	228.8	206.0	187.6	173.4	163.3	157.1	154.1	152.6	154.1	157.1	163.3
127.5°	237.3	216.8	198.9	184.3	174.5	167.8	163.5	161.5	163.5	167.8	174.5
130°	242.5	223.3	205.5	191.2	181.0	173.9	168.8	166.8	168.8	173.9	181.0
132.5°	247.9	228.9	212.0	197.7	187.2	179.6	174.2	171.7	174.2	179.6	187.2
135°	254.8	237.0	220.7	206.4	194.7	187.2	181.0	179.0	181.0	187.2	194.7
137.5°	260.0	243.5	227.4	214.2	202.6	194.5	188.3	185.9	188.3	194.5	202.6
140°	262.9	247.2	231.9	218.6	207.5	199.4	193.2	191.2	193.2	199.4	207.5
142.5°	265.4	250.0	235.1	222.7	212.0	203.8	198.1	196.5	198.1	203.8	212.0
145°	268.5	254.2	240.5	229.3	219.2	211.5	206.4	204.5	206.4	211.5	219.2
147.5°	270.3	257.7	244.8	234.9	226.4	219.4	214.5	212.9	214.5	219.4	226.4
150°	271.1	259.3	247.6	238.5	230.9	224.3	220.2	218.6	220.2	224.3	230.9
152.5°	271.4	261.0	250.5	242.2	235.0	229.2	225.1	224.4	225.1	229.2	235.0
155°	272.1	263.4	254.8	247.2	241.6	235.9	232.9	232.4	232.9	235.9	241.6
157.5°	272.1	265.1	257.8	251.5	246.9	242.1	239.6	239.1	239.6	242.1	246.9
160°	272.1	266.0	259.8	254.2	250.2	246.1	244.1	243.6	244.1	246.1	250.2
162.5°	271.6	266.4	261.1	256.7	253.1	249.8	247.7	248.1	247.7	249.8	253.1
165°	270.5	267.0	262.4	259.3	256.8	253.8	252.7	253.2	252.7	253.8	256.8
167.5°	269.8	266.9	263.5	261.6	259.8	257.8	256.9	257.5	256.9	257.8	259.8
170°	269.0	266.4	263.9	262.4	261.4	259.8	259.3	260.4	259.3	259.8	261.4
172.5°	267.8	266.1	264.3	263.2	262.6	261.1	261.4	262.0	261.4	261.1	262.6
175°	266.4	265.5	264.4	263.9	263.9	262.9	263.4	263.9	263.4	262.9	263.9
177.5°	265.6	264.8	264.4	264.4	264.4	263.6	264.0	264.8	264.0	263.6	264.4
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331296-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A4

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	6.8	7.0	7.0	6.5	6.4	6.2	5.9	6.1
90°	6.1	7.7	10.2	13.7	16.8	17.3	16.8	16.2	15.2	16.2	16.8
92.5°	18.3	23.1	34.6	50.7	65.2	66.1	55.8	44.3	38.1	33.8	30.6
95°	37.6	49.8	73.2	117.4	176.5	199.4	174.4	133.2	102.2	80.9	69.6
97.5°	53.4	67.2	96.7	158.3	256.3	340.3	357.0	310.9	254.4	199.4	162.6
100°	63.6	77.8	104.8	166.8	276.6	401.7	474.9	464.3	401.3	331.5	270.0
102.5°	72.9	87.1	112.1	167.2	268.9	403.8	518.9	564.8	550.5	499.6	434.4
105°	86.4	100.7	124.6	169.9	253.8	376.8	512.1	617.9	675.3	682.0	665.1
107.5°	99.9	114.2	137.4	176.8	246.2	347.9	467.4	579.6	666.2	719.1	743.7
110°	108.8	123.6	146.0	182.5	244.6	334.1	439.3	546.7	637.7	702.8	744.5



TEST NUMBER: P331296-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	117.3	132.5	154.1	188.7	245.0	325.1	419.8	516.6	604.0	673.5	721.3
115°	131.2	144.9	166.8	197.8	247.2	315.3	395.7	479.6	557.9	624.5	676.9
117.5°	144.0	158.3	178.5	207.6	250.8	310.5	380.4	451.7	520.4	580.9	630.0
120°	152.6	166.8	186.6	214.1	253.2	307.6	372.3	437.8	500.9	554.8	601.1
122.5°	161.1	175.8	194.4	219.8	256.1	306.0	365.3	426.9	484.6	535.7	577.5
125°	173.4	187.6	206.0	228.8	260.4	303.1	355.4	410.9	463.2	508.0	546.2
127.5°	184.3	198.9	216.8	237.3	264.7	301.4	346.3	395.1	442.6	484.7	520.0
130°	191.2	205.5	223.3	242.5	268.0	300.5	340.2	385.0	428.7	468.9	502.4
132.5°	197.7	212.0	228.9	247.9	271.3	300.1	335.3	375.2	415.7	452.6	484.1
135°	206.4	220.7	237.0	254.8	275.1	299.5	328.5	361.6	395.1	428.7	457.2
137.5°	214.2	227.4	243.5	260.0	278.6	299.4	323.7	350.7	378.8	405.4	430.3
140°	218.6	231.9	247.2	262.9	280.2	299.0	320.9	343.8	368.2	391.6	413.9
142.5°	222.7	235.1	250.0	265.4	281.4	299.0	318.1	338.0	358.8	379.0	397.7
145°	229.3	240.5	254.2	268.5	282.8	298.0	314.2	330.0	346.8	362.6	377.4
147.5°	234.9	244.8	257.7	270.3	283.1	296.1	310.4	323.9	337.1	349.4	360.2
150°	238.5	247.6	259.3	271.1	282.8	295.0	307.2	319.3	330.6	341.3	350.4
152.5°	242.2	250.5	261.0	271.4	282.0	292.9	304.3	314.9	325.3	334.3	342.2
155°	247.2	254.8	263.4	272.1	280.7	289.4	299.0	308.7	316.8	324.4	330.0
157.5°	251.5	257.8	265.1	272.1	278.4	285.7	294.0	301.5	308.3	314.7	319.1
160°	254.2	259.8	266.0	272.1	277.1	283.3	290.3	296.9	302.6	308.2	311.7
162.5°	256.7	261.1	266.4	271.6	275.9	281.2	287.1	292.5	297.3	302.1	304.8
165°	259.3	262.4	267.0	270.5	273.6	277.1	281.7	285.8	289.4	292.9	295.0
167.5°	261.6	263.5	266.9	269.8	271.3	273.6	276.4	279.4	282.1	284.5	286.4
170°	262.4	263.9	266.4	269.0	270.0	271.5	273.6	276.2	277.7	279.7	280.7
172.5°	263.2	264.3	266.1	267.8	268.4	269.1	270.7	272.5	273.6	275.2	275.8
175°	263.9	264.4	265.5	266.4	266.0	266.4	267.0	268.5	269.0	269.6	270.0
177.5°	264.4	264.4	264.8	265.6	264.8	264.4	264.8	265.6	265.6	266.1	266.1
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331296-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A4

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	5.5	5.8	5.8	6.1	6.1	5.9	6.2	6.4
90°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.2	15.2	16.2
92.5°	30.2	28.6	29.0	28.2	29.0	28.6	30.2	30.6	33.8	38.1	44.3
95°	63.0	59.0	57.4	58.0	57.4	59.0	63.0	69.6	80.9	102.2	133.2
97.5°	138.3	125.8	118.4	114.1	118.4	125.8	138.3	162.6	199.4	254.4	310.9
100°	227.8	206.0	191.2	182.1	191.2	206.0	227.8	270.0	331.5	401.3	464.3
102.5°	388.5	351.2	332.8	320.4	332.8	351.2	388.5	434.4	499.6	550.5	564.8
105°	633.6	602.1	580.2	573.1	580.2	602.1	633.6	665.1	682.0	675.3	617.9
107.5°	747.6	745.9	741.5	732.1	741.5	745.9	747.6	743.7	719.1	666.2	579.6
110°	766.3	776.1	780.6	780.1	780.6	776.1	766.3	744.5	702.8	637.7	546.7



TEST NUMBER: P331296-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	751.7	767.9	776.5	779.3	776.5	767.9	751.7	721.3	673.5	604.0	516.6
115°	712.9	736.4	749.6	754.1	749.6	736.4	712.9	676.9	624.5	557.9	479.6
117.5°	666.8	691.5	705.4	709.3	705.4	691.5	666.8	630.0	580.9	520.4	451.7
120°	636.7	660.6	675.3	680.4	675.3	660.6	636.7	601.1	554.8	500.9	437.8
122.5°	609.4	632.9	646.0	650.3	646.0	632.9	609.4	577.5	535.7	484.6	426.9
125°	575.7	594.9	607.7	611.8	607.7	594.9	575.7	546.2	508.0	463.2	410.9
127.5°	545.6	563.7	574.7	578.0	574.7	563.7	545.6	520.0	484.7	442.6	395.1
130°	527.4	544.7	554.8	558.8	554.8	544.7	527.4	502.4	468.9	428.7	385.0
132.5°	508.6	525.9	535.3	539.0	535.3	525.9	508.6	484.1	452.6	415.7	375.2
135°	479.0	495.8	505.0	507.0	505.0	495.8	479.0	457.2	428.7	395.1	361.6
137.5°	450.1	464.6	472.6	475.6	472.6	464.6	450.1	430.3	405.4	378.8	350.7
140°	430.3	443.4	451.0	454.1	451.0	443.4	430.3	413.9	391.6	368.2	343.8
142.5°	413.1	425.2	431.9	432.6	431.9	425.2	413.1	397.7	379.0	358.8	338.0
145°	389.5	398.1	403.2	404.7	403.2	398.1	389.5	377.4	362.6	346.8	330.0
147.5°	370.2	377.1	380.6	381.5	380.6	377.1	370.2	360.2	349.4	337.1	323.9
150°	358.0	364.1	367.1	367.7	367.1	364.1	358.0	350.4	341.3	330.6	319.3
152.5°	348.2	353.6	355.8	355.9	355.8	353.6	348.2	342.2	334.3	325.3	314.9
155°	335.6	339.2	341.3	340.2	341.3	339.2	335.6	330.0	324.4	316.8	308.7
157.5°	323.0	326.0	326.9	326.9	326.9	326.0	323.0	319.1	314.7	308.3	301.5
160°	315.3	317.8	318.3	318.3	318.3	317.8	315.3	311.7	308.2	302.6	296.9
162.5°	308.4	310.1	310.6	310.2	310.6	310.1	308.4	304.8	302.1	297.3	292.5
165°	296.9	299.0	299.0	298.5	299.0	299.0	296.9	295.0	292.9	289.4	285.8
167.5°	287.3	288.5	288.4	287.8	288.4	288.5	287.3	286.4	284.5	282.1	279.4
170°	281.2	282.8	282.2	281.2	282.2	282.8	281.2	280.7	279.7	277.7	276.2
172.5°	276.3	277.1	276.5	275.9	276.5	277.1	276.3	275.8	275.2	273.6	272.5
175°	270.0	270.5	270.0	269.0	270.0	270.5	270.0	270.0	269.6	269.0	268.5
177.5°	266.1	266.1	265.6	264.8	265.6	266.1	266.1	266.1	266.1	265.6	265.6
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331296-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A4

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°	6.5	7.0	7.0	6.8	6.1	5.8	5.7	5.8	6.2	6.0	6.0
90°	16.8	17.3	16.8	13.7	10.2	7.7	6.1	5.1	4.1	2.1	0.5
92.5°	55.8	66.1	65.2	50.7	34.6	23.1	18.3	14.9	12.6	8.9	6.2
95°	174.4	199.4	176.5	117.4	73.2	49.8	37.6	29.5	24.9	19.8	17.8
97.5°	357.0	340.3	256.3	158.3	96.7	67.2	53.4	44.1	37.1	31.7	29.0
100°	474.9	401.7	276.6	166.8	104.8	77.8	63.6	53.4	45.3	40.7	39.1
102.5°	518.9	403.8	268.9	167.2	112.1	87.1	72.9	62.3	54.2	49.7	48.5
105°	512.1	376.8	253.8	169.9	124.6	100.7	86.4	75.3	67.6	64.1	62.1
107.5°	467.4	347.9	246.2	176.8	137.4	114.2	99.9	88.8	81.8	78.3	76.7
110°	439.3	334.1	244.6	182.5	146.0	123.6	108.8	98.2	91.6	88.5	86.4



TEST NUMBER: P331296-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	419.8	325.1	245.0	188.7	154.1	132.5	117.3	107.1	100.9	97.5	95.4
115°	395.7	315.3	247.2	197.8	166.8	144.9	131.2	121.0	114.9	111.9	109.3
117.5°	380.4	310.5	250.8	207.6	178.5	158.3	144.0	134.3	128.9	125.8	123.8
120°	372.3	307.6	253.2	214.1	186.6	166.8	152.6	142.4	137.8	134.7	132.7
122.5°	365.3	306.0	256.1	219.8	194.4	175.8	161.1	151.0	146.0	142.9	141.2
125°	355.4	303.1	260.4	228.8	206.0	187.6	173.4	163.3	157.1	154.1	152.6
127.5°	346.3	301.4	264.7	237.3	216.8	198.9	184.3	174.5	167.8	163.5	161.5
130°	340.2	300.5	268.0	242.5	223.3	205.5	191.2	181.0	173.9	168.8	166.8
132.5°	335.3	300.1	271.3	247.9	228.9	212.0	197.7	187.2	179.6	174.2	171.7
135°	328.5	299.5	275.1	254.8	237.0	220.7	206.4	194.7	187.2	181.0	179.0
137.5°	323.7	299.4	278.6	260.0	243.5	227.4	214.2	202.6	194.5	188.3	185.9
140°	320.9	299.0	280.2	262.9	247.2	231.9	218.6	207.5	199.4	193.2	191.2
142.5°	318.1	299.0	281.4	265.4	250.0	235.1	222.7	212.0	203.8	198.1	196.5
145°	314.2	298.0	282.8	268.5	254.2	240.5	229.3	219.2	211.5	206.4	204.5
147.5°	310.4	296.1	283.1	270.3	257.7	244.8	234.9	226.4	219.4	214.5	212.9
150°	307.2	295.0	282.8	271.1	259.3	247.6	238.5	230.9	224.3	220.2	218.6
152.5°	304.3	292.9	282.0	271.4	261.0	250.5	242.2	235.0	229.2	225.1	224.4
155°	299.0	289.4	280.7	272.1	263.4	254.8	247.2	241.6	235.9	232.9	232.4
157.5°	294.0	285.7	278.4	272.1	265.1	257.8	251.5	246.9	242.1	239.6	239.1
160°	290.3	283.3	277.1	272.1	266.0	259.8	254.2	250.2	246.1	244.1	243.6
162.5°	287.1	281.2	275.9	271.6	266.4	261.1	256.7	253.1	249.8	247.7	248.1
165°	281.7	277.1	273.6	270.5	267.0	262.4	259.3	256.8	253.8	252.7	253.2
167.5°	276.4	273.6	271.3	269.8	266.9	263.5	261.6	259.8	257.8	256.9	257.5
170°	273.6	271.5	270.0	269.0	266.4	263.9	262.4	261.4	259.8	259.3	260.4
172.5°	270.7	269.1	268.4	267.8	266.1	264.3	263.2	262.6	261.1	261.4	262.0
175°	267.0	266.4	266.0	266.4	265.5	264.4	263.9	263.9	262.9	263.4	263.9
177.5°	264.8	264.4	264.8	265.6	264.8	264.4	264.4	264.4	263.6	264.0	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331296-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A4

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	8.6	8.7	9.7	9.5	10.0	10.7	11.1	10.9	10.5	10.2
90°	2.1	4.1	5.1	6.1	7.7	10.2	13.7	16.8	17.3	16.8	16.2
92.5°	8.9	12.6	14.9	18.3	23.1	34.6	50.7	65.2	66.1	55.8	44.3
95°	19.8	24.9	29.5	37.6	49.8	73.2	117.4	176.5	199.4	174.4	133.2
97.5°	31.7	37.1	44.1	53.4	67.2	96.7	158.3	256.3	340.3	357.0	310.9
100°	40.7	45.3	53.4	63.6	77.8	104.8	166.8	276.6	401.7	474.9	464.3
102.5°	49.7	54.2	62.3	72.9	87.1	112.1	167.2	268.9	403.8	518.9	564.8
105°	64.1	67.6	75.3	86.4	100.7	124.6	169.9	253.8	376.8	512.1	617.9
107.5°	78.3	81.8	88.8	99.9	114.2	137.4	176.8	246.2	347.9	467.4	579.6
110°	88.5	91.6	98.2	108.8	123.6	146.0	182.5	244.6	334.1	439.3	546.7



TEST NUMBER: P331296-940

CATALOG NUMBER: S122DIP-S485D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	97.5	100.9	107.1	117.3	132.5	154.1	188.7	245.0	325.1	419.8	516.6
115°	111.9	114.9	121.0	131.2	144.9	166.8	197.8	247.2	315.3	395.7	479.6
117.5°	125.8	128.9	134.3	144.0	158.3	178.5	207.6	250.8	310.5	380.4	451.7
120°	134.7	137.8	142.4	152.6	166.8	186.6	214.1	253.2	307.6	372.3	437.8
122.5°	142.9	146.0	151.0	161.1	175.8	194.4	219.8	256.1	306.0	365.3	426.9
125°	154.1	157.1	163.3	173.4	187.6	206.0	228.8	260.4	303.1	355.4	410.9
127.5°	163.5	167.8	174.5	184.3	198.9	216.8	237.3	264.7	301.4	346.3	395.1
130°	168.8	173.9	181.0	191.2	205.5	223.3	242.5	268.0	300.5	340.2	385.0
132.5°	174.2	179.6	187.2	197.7	212.0	228.9	247.9	271.3	300.1	335.3	375.2
135°	181.0	187.2	194.7	206.4	220.7	237.0	254.8	275.1	299.5	328.5	361.6
137.5°	188.3	194.5	202.6	214.2	227.4	243.5	260.0	278.6	299.4	323.7	350.7
140°	193.2	199.4	207.5	218.6	231.9	247.2	262.9	280.2	299.0	320.9	343.8
142.5°	198.1	203.8	212.0	222.7	235.1	250.0	265.4	281.4	299.0	318.1	338.0
145°	206.4	211.5	219.2	229.3	240.5	254.2	268.5	282.8	298.0	314.2	330.0
147.5°	214.5	219.4	226.4	234.9	244.8	257.7	270.3	283.1	296.1	310.4	323.9
150°	220.2	224.3	230.9	238.5	247.6	259.3	271.1	282.8	295.0	307.2	319.3
152.5°	225.1	229.2	235.0	242.2	250.5	261.0	271.4	282.0	292.9	304.3	314.9
155°	232.9	235.9	241.6	247.2	254.8	263.4	272.1	280.7	289.4	299.0	308.7
157.5°	239.6	242.1	246.9	251.5	257.8	265.1	272.1	278.4	285.7	294.0	301.5
160°	244.1	246.1	250.2	254.2	259.8	266.0	272.1	277.1	283.3	290.3	296.9
162.5°	247.7	249.8	253.1	256.7	261.1	266.4	271.6	275.9	281.2	287.1	292.5
165°	252.7	253.8	256.8	259.3	262.4	267.0	270.5	273.6	277.1	281.7	285.8
167.5°	256.9	257.8	259.8	261.6	263.5	266.9	269.8	271.3	273.6	276.4	279.4
170°	259.3	259.8	261.4	262.4	263.9	266.4	269.0	270.0	271.5	273.6	276.2
172.5°	261.4	261.1	262.6	263.2	264.3	266.1	267.8	268.4	269.1	270.7	272.5
175°	263.4	262.9	263.9	263.9	264.4	265.5	266.4	266.0	266.4	267.0	268.5
177.5°	264.0	263.6	264.4	264.4	264.4	264.8	265.6	264.8	264.4	264.8	265.6
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



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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°	10.3	10.4	10.3	10.3	10.5	10.3	10.3
90°	15.2	16.2	16.8	16.8	16.8	16.8	16.8
92.5°	38.1	33.8	30.6	30.2	28.6	29.0	28.2
95°	102.2	80.9	69.6	63.0	59.0	57.4	58.0
97.5°	254.4	199.4	162.6	138.3	125.8	118.4	114.1
100°	401.3	331.5	270.0	227.8	206.0	191.2	182.1
102.5°	550.5	499.6	434.4	388.5	351.2	332.8	320.4
105°	675.3	682.0	665.1	633.6	602.1	580.2	573.1
107.5°	666.2	719.1	743.7	747.6	745.9	741.5	732.1
110°	637.7	702.8	744.5	766.3	776.1	780.6	780.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	604.0	673.5	721.3	751.7	767.9	776.5	779.3
115°	557.9	624.5	676.9	712.9	736.4	749.6	754.1
117.5°	520.4	580.9	630.0	666.8	691.5	705.4	709.3
120°	500.9	554.8	601.1	636.7	660.6	675.3	680.4
122.5°	484.6	535.7	577.5	609.4	632.9	646.0	650.3
125°	463.2	508.0	546.2	575.7	594.9	607.7	611.8
127.5°	442.6	484.7	520.0	545.6	563.7	574.7	578.0
130°	428.7	468.9	502.4	527.4	544.7	554.8	558.8
132.5°	415.7	452.6	484.1	508.6	525.9	535.3	539.0
135°	395.1	428.7	457.2	479.0	495.8	505.0	507.0
137.5°	378.8	405.4	430.3	450.1	464.6	472.6	475.6
140°	368.2	391.6	413.9	430.3	443.4	451.0	454.1
142.5°	358.8	379.0	397.7	413.1	425.2	431.9	432.6
145°	346.8	362.6	377.4	389.5	398.1	403.2	404.7
147.5°	337.1	349.4	360.2	370.2	377.1	380.6	381.5
150°	330.6	341.3	350.4	358.0	364.1	367.1	367.7
152.5°	325.3	334.3	342.2	348.2	353.6	355.8	355.9
155°	316.8	324.4	330.0	335.6	339.2	341.3	340.2
157.5°	308.3	314.7	319.1	323.0	326.0	326.9	326.9
160°	302.6	308.2	311.7	315.3	317.8	318.3	318.3
162.5°	297.3	302.1	304.8	308.4	310.1	310.6	310.2
165°	289.4	292.9	295.0	296.9	299.0	299.0	298.5
167.5°	282.1	284.5	286.4	287.3	288.5	288.4	287.8
170°	277.7	279.7	280.7	281.2	282.8	282.2	281.2
172.5°	273.6	275.2	275.8	276.3	277.1	276.5	275.9
175°	269.0	269.6	270.0	270.0	270.5	270.0	269.0
177.5°	265.6	266.1	266.1	266.1	266.1	265.6	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4

(END OF REPORT)