

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331287-930

Luminaire Tested: **S122DIP-S485D330U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331287-930
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-S485D330U930-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2791.6 lumens
Efficiency: N/A
Efficacy: 101.5 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: Semi-Direct

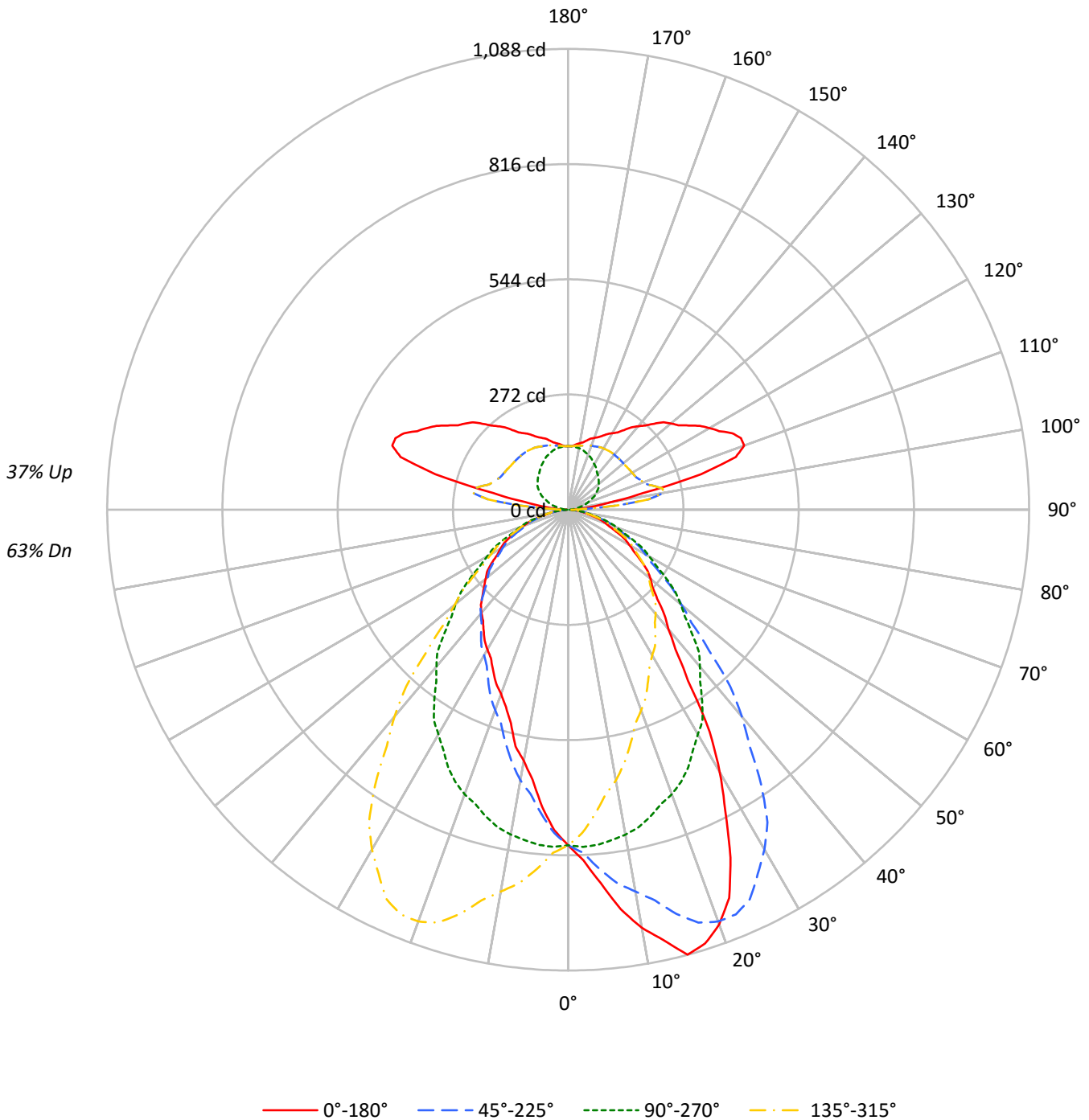
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	97	93	90	95	91	88	85	80	78	76	70	68	67	61	60	58	54
2	93	85	79	74	87	80	75	71	71	67	64	62	59	57	54	52	50	46
3	85	76	69	63	79	71	65	60	63	58	54	56	52	49	49	46	43	40
4	78	67	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35
5	72	60	52	47	67	57	50	45	51	45	41	45	41	37	40	36	33	31
6	67	55	47	41	62	52	44	39	46	40	36	41	36	33	36	33	30	27
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	33	30	27	24
8	57	45	38	32	54	43	36	31	39	33	29	35	30	26	31	27	24	22
9	54	42	34	29	50	39	33	28	36	30	26	32	27	24	29	25	22	20
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12791	12791	12791	12791
5°	14340	12875	11408	12875
10°	16433	12770	9875	12770
15°	18180	12535	8724	12535
20°	17904	12283	7952	12283
25°	16142	11948	7464	11948
30°	13340	11415	7107	11415
35°	9723	10857	6853	10857
40°	7765	10197	6713	10197
45°	6786	9435	6521	9435
50°	6380	8696	6393	8696
55°	5880	7947	6221	7947
60°	5389	7149	5958	7149
65°	4909	6434	5700	6434
70°	4456	5736	5320	5736
75°	3949	4959	4710	4959
80°	3394	4110	3794	4110
85°	3057	3057	2242	3057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	2.7
10°-20°	219.3	7.9
20°-30°	318.3	11.4
30°-40°	335.9	12.0
40°-50°	297.4	10.7
50°-60°	237.4	8.5
60°-70°	161.3	5.8
70°-80°	82.7	3.0
80°-90°	21.3	0.8
90°-100°	59.9	2.1
100°-110°	203.2	7.3
110°-120°	215.9	7.7
120°-130°	177.7	6.4
130°-140°	142.7	5.1
140°-150°	107.9	3.9
150°-160°	75.8	2.7
160°-170°	44.6	1.6
170°-180°	14.5	0.5
0°-30°	613.1	22.0
0°-40°	949.1	34.0
0°-60°	1483.9	53.2
0°-90°	1749.2	62.7
90°-120°	479.1	17.2
90°-150°	907.4	32.5
90°-180°	1042.0	37.3
0°-180°	2791.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	792	792	792	792	792	
5°	885	794	704	794	885	88
15°	1088	750	522	750	1088	300
25°	906	671	419	671	906	410
35°	493	551	348	551	493	321
45°	297	413	286	413	297	234
55°	209	282	221	282	209	187
65°	128	168	149	168	128	128
75°	63	80	76	80	63	68
85°	16	16	12	16	16	18
90°	10	0	10	0	10	6
95°	33	10	33	10	33	43
105°	325	35	325	35	325	314
115°	427	62	427	62	427	418
125°	347	86	347	86	347	313
135°	287	101	287	101	287	223
145°	229	116	229	116	229	146
155°	193	132	193	132	193	90
165°	169	144	169	144	169	48
175°	152	150	152	150	152	15
180°	150	150	150	150	150	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	828.8	829.1	829.5	825.7	825.2	825.2	821.7	818.8	815.4	810.7	811.2
5°	884.8	888.2	889.4	885.7	880.3	879.6	874.5	865.9	858.0	851.7	847.1
7.5°	951.7	953.0	950.1	945.3	941.2	933.8	924.2	914.8	901.6	889.4	880.4
10°	1002.3	1004.2	999.0	992.0	986.2	977.7	963.7	949.3	932.1	915.3	901.9
12.5°	1040.8	1045.4	1038.7	1037.8	1027.8	1016.2	999.5	992.2	967.8	944.5	930.1
15°	1087.6	1087.3	1087.9	1082.1	1074.8	1073.0	1055.3	1036.2	1001.8	988.1	964.3
17.5°	1074.1	1078.7	1080.8	1080.8	1080.6	1079.5	1073.7	1061.7	1044.4	1022.2	994.8
20°	1042.0	1048.0	1049.0	1056.0	1059.9	1065.1	1067.2	1063.9	1053.2	1034.6	1010.9
22.5°	992.2	993.9	996.8	1007.7	1016.3	1029.2	1036.0	1047.3	1043.2	1034.1	1014.3
25°	906.1	903.1	913.7	919.2	939.0	959.7	974.6	991.1	1005.7	1014.6	1008.8
27.5°	802.7	798.2	814.2	828.7	844.7	867.2	890.4	917.9	940.7	969.3	979.1
30°	715.5	718.3	733.5	749.0	773.4	805.0	831.2	861.4	894.0	925.9	948.1
32.5°	621.5	632.0	641.6	665.4	686.9	722.2	760.6	798.3	838.9	875.2	909.6
35°	493.3	505.4	518.9	536.2	566.3	601.4	638.8	689.7	745.1	794.7	835.5
37.5°	415.2	413.3	420.9	433.5	457.9	486.2	529.2	579.5	644.7	703.0	760.6
40°	368.4	367.2	372.7	384.3	402.8	423.5	461.3	505.4	566.1	637.2	705.8
42.5°	336.2	337.0	340.1	348.2	360.9	378.0	406.3	443.8	499.3	566.4	640.0
45°	297.2	299.3	302.6	306.6	313.9	327.9	343.7	370.6	414.4	470.4	542.9
47.5°	269.0	269.1	272.5	276.0	280.3	288.2	301.2	318.0	348.9	394.5	456.8
50°	254.0	251.8	254.2	257.0	261.5	267.0	275.6	291.4	312.1	348.9	401.0
52.5°	235.5	235.5	237.7	238.7	242.8	248.3	256.1	267.0	285.8	314.6	357.4
55°	208.9	210.4	211.7	213.4	217.1	221.0	227.1	234.5	249.1	270.7	302.3
57.5°	183.9	184.4	185.6	189.1	191.4	195.0	200.8	207.5	217.0	233.0	256.8
60°	166.9	166.9	169.3	170.8	173.8	177.5	182.1	188.5	197.0	210.1	229.3
62.5°	151.2	151.0	152.0	154.5	156.8	160.2	164.8	170.2	178.2	189.9	205.6
65°	128.5	127.9	129.7	130.3	132.7	136.1	139.7	145.5	152.0	160.5	174.5
67.5°	106.6	107.3	108.3	109.4	110.8	114.3	116.8	120.8	126.2	133.3	142.8
70°	94.4	94.4	94.4	95.3	97.1	99.0	101.4	104.8	109.9	116.0	124.5
72.5°	80.7	81.7	82.7	82.2	84.5	85.5	88.5	90.3	95.3	99.2	106.7
75°	63.3	63.3	63.3	64.8	65.8	66.7	68.5	70.4	72.8	77.6	81.6
77.5°	47.3	47.1	47.5	47.8	48.8	49.9	50.4	52.1	54.3	56.6	59.9
80°	36.5	37.2	37.4	38.1	38.1	38.6	39.0	41.1	42.6	44.2	46.3
82.5°	28.3	28.4	28.5	28.5	28.8	29.2	29.9	30.7	31.1	32.4	34.1
85°	16.5	16.1	16.1	16.7	16.5	16.5	17.0	17.7	17.7	17.9	18.9
87.5°	8.2	8.2	8.5	8.2	8.2	8.4	8.3	8.2	8.5	8.8	9.0
90°	9.5	9.5	9.5	9.5	9.5	9.2	8.6	9.2	9.5	9.8	9.5
92.5°	16.0	16.4	16.2	17.1	17.4	19.2	21.5	25.1	31.6	37.4	36.9
95°	32.9	32.5	33.4	35.7	39.5	45.8	57.9	75.5	98.8	112.9	100.0
97.5°	64.7	67.1	71.3	78.4	92.1	112.9	144.1	176.1	202.2	192.7	145.2
100°	103.1	108.4	116.7	129.1	153.0	187.8	227.3	263.0	269.0	227.6	156.7
102.5°	181.5	188.5	198.9	220.0	246.1	283.0	311.9	319.9	293.9	228.7	152.3
105°	324.7	328.6	341.0	358.9	376.8	386.3	382.5	350.0	290.1	213.4	143.7
107.5°	414.7	420.0	422.6	423.5	421.3	407.3	377.4	328.3	264.8	197.1	139.5
110°	441.9	442.2	439.6	434.1	421.8	398.1	361.3	309.7	248.9	189.2	138.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	441.4	439.9	435.0	425.8	408.6	381.5	342.1	292.6	237.8	184.2	138.8
115°	427.2	424.6	417.1	403.9	383.4	353.8	316.0	271.7	224.1	178.6	140.0
117.5°	401.8	399.6	391.8	377.7	356.9	329.1	294.8	255.8	215.5	175.9	142.1
120°	385.5	382.5	374.2	360.7	340.5	314.3	283.7	248.0	210.8	174.3	143.5
122.5°	368.4	366.0	358.6	345.2	327.1	303.5	274.5	241.8	206.9	173.3	145.0
125°	346.6	344.2	337.0	326.1	309.4	287.8	262.4	232.8	201.4	171.7	147.5
127.5°	327.4	325.5	319.4	309.1	294.5	274.6	250.7	223.8	196.2	170.7	149.9
130°	316.6	314.3	308.5	298.7	284.6	265.6	242.9	218.1	192.7	170.2	151.8
132.5°	305.3	303.2	297.9	288.1	274.3	256.4	235.5	212.5	190.0	170.0	153.7
135°	287.2	286.1	280.9	271.3	258.9	242.9	223.8	204.8	186.1	169.7	155.9
137.5°	269.5	267.7	263.2	255.0	243.7	229.7	214.6	198.7	183.4	169.6	157.8
140°	257.2	255.5	251.2	243.7	234.5	221.8	208.6	194.7	181.7	169.4	158.7
142.5°	245.0	244.7	240.8	234.0	225.3	214.7	203.3	191.5	180.2	169.4	159.4
145°	229.3	228.4	225.6	220.6	213.8	205.4	196.5	186.9	178.1	168.8	160.1
147.5°	216.1	215.6	213.6	209.7	204.0	197.9	190.9	183.4	175.9	167.8	160.4
150°	208.3	208.0	206.3	202.8	198.4	193.3	187.3	180.9	174.0	167.1	160.1
152.5°	201.6	201.5	200.2	197.3	193.9	189.4	184.3	178.4	172.4	165.9	159.7
155°	192.7	193.3	192.2	190.1	186.9	183.8	179.4	174.9	169.4	163.9	159.0
157.5°	185.2	185.2	184.7	183.0	180.8	178.2	174.6	170.8	166.6	161.8	157.7
160°	180.3	180.3	180.0	178.6	176.6	174.6	171.4	168.2	164.4	160.5	157.0
162.5°	175.7	175.9	175.7	174.7	172.7	171.1	168.4	165.7	162.7	159.3	156.3
165°	169.1	169.4	169.4	168.2	167.1	165.9	163.9	161.9	159.6	157.0	155.0
167.5°	163.0	163.3	163.4	162.7	162.2	161.2	159.8	158.2	156.6	155.0	153.7
170°	159.3	159.9	160.1	159.3	159.0	158.4	157.3	156.5	155.0	153.8	153.0
172.5°	156.3	156.6	156.9	156.5	156.2	155.9	155.0	154.3	153.4	152.5	152.1
175°	152.4	153.0	153.3	153.0	153.0	152.7	152.4	152.1	151.2	150.9	150.7
177.5°	150.0	150.5	150.7	150.7	150.7	150.7	150.5	150.5	150.0	149.8	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	812.9	811.0	809.8	805.4	801.5	797.6	796.4	796.9	791.5	786.4	784.2
5°	844.7	838.5	832.7	824.5	814.8	804.1	798.7	794.4	783.7	772.2	765.5
7.5°	873.0	864.3	853.1	837.7	823.5	806.7	796.1	786.7	771.0	754.7	744.8
10°	890.3	878.4	864.1	845.2	827.9	807.5	793.2	778.9	760.6	741.1	729.0
12.5°	905.1	889.2	875.1	850.8	830.3	804.8	787.8	767.7	748.4	725.3	713.3
15°	940.5	911.0	884.2	856.8	831.5	795.9	777.1	749.9	724.6	696.0	682.3
17.5°	967.8	934.7	892.5	857.7	828.2	788.7	761.0	728.6	698.6	665.9	647.3
20°	983.5	945.4	900.0	858.7	823.3	778.3	748.1	714.9	679.9	643.0	623.0
22.5°	992.7	952.8	907.8	855.0	813.6	769.7	731.8	695.5	659.9	620.2	599.1
25°	995.6	959.1	911.6	851.9	801.4	751.8	706.0	670.7	627.9	590.7	559.9
27.5°	981.1	955.0	909.3	846.2	787.3	729.3	678.4	638.4	593.0	552.8	521.8
30°	963.4	948.1	903.7	840.3	776.1	713.7	657.7	612.3	567.3	526.4	494.8
32.5°	935.9	932.5	893.5	832.1	764.2	694.0	636.0	590.1	540.2	500.1	469.9
35°	881.7	896.4	871.7	813.6	741.7	665.9	603.2	550.8	499.0	460.6	432.4
37.5°	809.3	845.6	839.2	786.4	711.3	635.4	566.1	511.4	462.0	423.3	395.5
40°	759.4	805.7	812.4	765.7	690.0	611.7	538.3	483.8	435.7	400.4	372.3
42.5°	705.8	759.9	778.3	740.9	666.6	586.9	513.5	457.1	409.4	375.0	350.3
45°	616.0	687.5	720.7	699.4	627.5	545.9	470.4	413.2	370.0	337.7	318.5
47.5°	532.0	610.2	654.8	647.3	584.1	503.3	428.7	373.7	331.7	305.9	288.7
50°	472.5	552.9	606.8	609.3	552.9	472.9	397.9	346.2	307.5	283.5	269.5
52.5°	420.9	497.7	556.4	569.3	518.1	441.2	370.4	318.9	284.9	262.8	250.2
55°	353.5	418.3	483.6	507.3	466.2	393.1	327.6	282.3	250.3	235.1	224.1
57.5°	293.9	348.0	408.1	434.4	409.0	346.5	285.1	245.7	219.8	206.4	198.0
60°	262.4	305.1	358.7	390.0	368.1	312.4	258.8	221.4	200.1	188.2	180.3
62.5°	233.3	271.0	316.3	345.0	333.0	280.5	232.5	199.4	181.1	169.9	164.2
65°	192.4	222.3	257.3	283.8	275.9	235.9	196.7	168.4	153.8	145.0	140.4
67.5°	158.4	180.0	204.3	227.5	221.1	192.8	161.3	139.3	128.3	120.7	118.1
70°	137.1	153.4	175.0	193.6	188.5	165.3	140.4	121.5	112.0	105.7	102.9
72.5°	116.6	130.0	146.6	161.8	158.2	139.0	118.2	104.0	96.7	90.8	88.5
75°	88.0	98.3	108.4	118.5	117.6	102.6	90.4	79.5	73.7	69.1	68.2
77.5°	65.0	70.8	77.6	83.6	81.9	73.4	63.8	57.6	53.3	50.2	49.7
80°	49.7	53.0	57.9	62.1	60.0	56.3	48.8	44.2	41.1	38.1	36.9
82.5°	36.0	39.4	42.2	44.6	43.0	39.5	34.8	31.7	29.9	27.8	27.3
85°	18.9	20.7	21.9	22.5	21.9	19.8	17.7	16.5	14.9	14.0	13.7
87.5°	8.9	8.5	8.2	8.5	7.7	7.5	6.4	5.4	5.4	5.3	5.0
90°	7.7	5.8	4.3	3.4	2.9	2.3	1.1	0.3	1.1	2.3	2.9
92.5°	28.8	19.6	13.0	10.4	8.4	7.2	5.1	3.5	5.1	7.2	8.4
95°	66.5	41.5	28.2	21.3	16.7	14.1	11.3	10.1	11.3	14.1	16.7
97.5°	89.7	54.7	38.1	30.2	24.9	21.0	17.9	16.4	17.9	21.0	24.9
100°	94.5	59.4	44.1	36.0	30.2	25.6	23.1	22.2	23.1	25.6	30.2
102.5°	94.7	63.5	49.4	41.3	35.3	30.7	28.1	27.5	28.1	30.7	35.3
105°	96.2	70.6	57.1	49.0	42.6	38.3	36.3	35.1	36.3	38.3	42.6
107.5°	100.2	77.9	64.7	56.6	50.3	46.3	44.4	43.5	44.4	46.3	50.3
110°	103.4	82.7	70.0	61.6	55.6	51.9	50.1	49.0	50.1	51.9	55.6



TEST NUMBER: P331287-930

CATALOG NUMBER: S122DIP-S485D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	106.9	87.3	75.1	66.4	60.7	57.2	55.2	54.1	55.2	57.2	60.7
115°	112.0	94.5	82.1	74.4	68.6	65.1	63.3	62.0	63.3	65.1	68.6
117.5°	117.6	101.1	89.7	81.6	76.1	73.0	71.3	70.1	71.3	73.0	76.1
120°	121.3	105.7	94.5	86.4	80.6	78.1	76.3	75.2	76.3	78.1	80.6
122.5°	124.5	110.1	99.5	91.2	85.5	82.7	81.0	80.1	81.0	82.7	85.5
125°	129.6	116.7	106.3	98.2	92.5	89.0	87.3	86.4	87.3	89.0	92.5
127.5°	134.4	122.8	112.7	104.4	98.9	95.1	92.6	91.5	92.6	95.1	98.9
130°	137.4	126.5	116.3	108.4	102.6	98.5	95.6	94.5	95.6	98.5	102.6
132.5°	140.4	129.7	120.1	112.0	106.0	101.7	98.7	97.3	98.7	101.7	106.0
135°	144.3	134.3	125.0	117.0	110.3	106.0	102.6	101.4	102.6	106.0	110.3
137.5°	147.3	137.9	128.8	121.3	114.8	110.1	106.7	105.3	106.7	110.1	114.8
140°	149.0	140.0	131.3	123.8	117.6	112.9	109.5	108.4	109.5	112.9	117.6
142.5°	150.3	141.6	133.2	126.2	120.1	115.4	112.3	111.3	112.3	115.4	120.1
145°	152.1	144.1	136.2	130.0	124.2	119.8	117.0	115.8	117.0	119.8	124.2
147.5°	153.1	146.0	138.7	133.1	128.2	124.3	121.5	120.7	121.5	124.3	128.2
150°	153.5	146.9	140.3	135.1	130.8	127.0	124.7	123.8	124.7	127.0	130.8
152.5°	153.8	147.8	141.9	137.2	133.1	129.8	127.5	127.1	127.5	129.8	133.1
155°	154.1	149.2	144.3	140.0	136.8	133.6	131.9	131.7	131.9	133.6	136.8
157.5°	154.1	150.2	146.0	142.4	139.9	137.1	135.7	135.4	135.7	137.1	139.9
160°	154.1	150.7	147.2	144.1	141.7	139.4	138.3	137.9	138.3	139.4	141.7
162.5°	153.8	150.9	147.9	145.4	143.3	141.5	140.3	140.6	140.3	141.5	143.3
165°	153.3	151.2	148.6	146.9	145.4	143.7	143.2	143.5	143.2	143.7	145.4
167.5°	152.9	151.2	149.3	148.2	147.2	146.0	145.5	145.9	145.5	146.0	147.2
170°	152.4	150.9	149.5	148.6	148.1	147.2	146.9	147.5	146.9	147.2	148.1
172.5°	151.7	150.7	149.8	149.1	148.8	147.9	148.1	148.4	148.1	147.9	148.8
175°	150.9	150.3	149.8	149.5	149.5	149.0	149.2	149.5	149.2	149.0	149.5
177.5°	150.5	150.0	149.8	149.8	149.8	149.4	149.5	150.0	149.5	149.4	149.8
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331287-930

CATALOG NUMBER: S122DIP-S485D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	781.8	780.3	775.2	772.5	768.2	764.0	761.3	762.5	763.5	763.0	762.3
5°	759.4	753.6	744.8	737.1	731.6	721.6	717.4	715.3	713.4	711.3	709.1
7.5°	732.7	723.6	710.9	700.1	689.8	677.4	670.3	665.9	661.5	656.7	652.5
10°	713.7	700.9	687.5	672.3	660.1	648.8	638.8	632.1	626.0	620.2	616.0
12.5°	693.7	679.0	662.4	641.6	628.2	612.0	610.6	598.8	589.2	585.6	580.7
15°	661.9	641.2	620.2	595.6	584.9	570.3	561.2	552.0	543.8	538.0	536.5
17.5°	625.8	599.0	578.1	560.4	543.0	528.0	519.6	512.3	505.5	497.7	496.8
20°	598.3	575.2	552.4	536.8	518.9	503.6	493.3	485.9	480.1	475.6	471.7
22.5°	572.3	546.9	526.0	509.0	491.3	479.0	470.8	463.8	459.0	454.0	450.2
25°	530.4	510.6	487.8	468.6	454.0	446.1	439.4	433.3	430.2	426.9	422.7
27.5°	493.8	471.8	450.5	435.6	422.7	415.7	411.0	406.8	404.0	402.0	399.6
30°	468.0	445.7	429.0	414.4	403.7	396.7	393.7	391.3	387.9	386.7	385.5
32.5°	443.1	423.1	408.8	396.2	386.0	381.4	378.6	376.4	373.8	372.6	370.1
35°	408.0	391.3	377.2	370.2	362.0	358.1	356.0	352.9	350.5	349.3	348.9
37.5°	375.0	360.4	351.1	342.2	338.7	336.2	333.4	331.3	330.5	330.4	330.0
40°	353.5	341.6	333.4	326.1	324.6	320.9	318.5	316.7	316.7	317.0	316.7
42.5°	334.0	323.3	316.1	309.8	308.0	305.8	303.4	303.3	303.8	304.8	303.8
45°	304.5	296.9	291.7	288.6	285.3	283.2	282.8	283.8	284.1	284.4	285.3
47.5°	277.3	272.2	267.6	264.2	262.8	262.4	262.0	263.6	265.1	265.6	267.0
50°	261.2	255.4	251.5	249.4	248.2	247.5	248.2	250.0	251.2	252.7	253.6
52.5°	243.2	239.1	236.4	234.7	234.2	234.6	234.7	236.8	238.8	239.3	239.8
55°	218.3	215.2	214.7	211.9	213.1	212.8	214.3	215.6	217.4	219.2	219.6
57.5°	193.5	191.0	189.4	189.6	190.0	191.4	192.6	194.8	196.7	198.6	198.9
60°	176.9	175.7	174.8	174.8	175.4	177.2	178.7	180.8	182.1	183.3	184.2
62.5°	161.8	160.6	159.6	160.1	161.8	162.8	164.6	165.8	167.0	168.2	168.6
65°	137.9	137.3	138.3	138.8	139.2	140.6	142.8	143.7	145.0	145.5	147.7
67.5°	115.9	116.1	115.9	116.8	118.5	119.0	120.9	123.1	123.4	124.5	125.9
70°	101.1	101.7	102.3	102.9	104.4	105.0	106.6	107.5	108.7	109.6	110.6
72.5°	87.5	87.6	88.2	88.1	89.4	90.7	92.0	92.9	94.1	95.2	96.1
75°	67.3	67.3	67.9	68.2	69.7	71.3	70.9	71.6	72.8	74.0	74.6
77.5°	49.2	48.5	49.2	49.4	49.9	51.2	51.4	52.3	53.7	53.3	54.0
80°	37.4	36.5	37.4	37.7	37.7	39.3	39.3	39.9	40.8	39.9	40.8
82.5°	26.7	26.3	27.0	27.1	27.6	27.6	28.0	28.2	29.1	28.7	29.1
85°	13.4	13.1	13.4	13.1	13.4	13.7	13.7	13.4	13.4	14.0	13.1
87.5°	4.8	4.7	4.8	5.2	5.3	5.1	4.8	4.7	4.6	4.2	4.3
90°	3.4	4.3	5.8	7.7	9.5	9.8	9.5	9.2	8.6	9.2	9.5
92.5°	10.4	13.0	19.6	28.8	36.9	37.4	31.6	25.1	21.5	19.2	17.4
95°	21.3	28.2	41.5	66.5	100.0	112.9	98.8	75.5	57.9	45.8	39.5
97.5°	30.2	38.1	54.7	89.7	145.2	192.7	202.2	176.1	144.1	112.9	92.1
100°	36.0	44.1	59.4	94.5	156.7	227.6	269.0	263.0	227.3	187.8	153.0
102.5°	41.3	49.4	63.5	94.7	152.3	228.7	293.9	319.9	311.9	283.0	246.1
105°	49.0	57.1	70.6	96.2	143.7	213.4	290.1	350.0	382.5	386.3	376.8
107.5°	56.6	64.7	77.9	100.2	139.5	197.1	264.8	328.3	377.4	407.3	421.3
110°	61.6	70.0	82.7	103.4	138.6	189.2	248.9	309.7	361.3	398.1	421.8



TEST NUMBER: P331287-930

CATALOG NUMBER: S122DIP-S485D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	66.4	75.1	87.3	106.9	138.8	184.2	237.8	292.6	342.1	381.5	408.6
115°	74.4	82.1	94.5	112.0	140.0	178.6	224.1	271.7	316.0	353.8	383.4
117.5°	81.6	89.7	101.1	117.6	142.1	175.9	215.5	255.8	294.8	329.1	356.9
120°	86.4	94.5	105.7	121.3	143.5	174.3	210.8	248.0	283.7	314.3	340.5
122.5°	91.2	99.5	110.1	124.5	145.0	173.3	206.9	241.8	274.5	303.5	327.1
125°	98.2	106.3	116.7	129.6	147.5	171.7	201.4	232.8	262.4	287.8	309.4
127.5°	104.4	112.7	122.8	134.4	149.9	170.7	196.2	223.8	250.7	274.6	294.5
130°	108.4	116.3	126.5	137.4	151.8	170.2	192.7	218.1	242.9	265.6	284.6
132.5°	112.0	120.1	129.7	140.4	153.7	170.0	190.0	212.5	235.5	256.4	274.3
135°	117.0	125.0	134.3	144.3	155.9	169.7	186.1	204.8	223.8	242.9	258.9
137.5°	121.3	128.8	137.9	147.3	157.8	169.6	183.4	198.7	214.6	229.7	243.7
140°	123.8	131.3	140.0	149.0	158.7	169.4	181.7	194.7	208.6	221.8	234.5
142.5°	126.2	133.2	141.6	150.3	159.4	169.4	180.2	191.5	203.3	214.7	225.3
145°	130.0	136.2	144.1	152.1	160.1	168.8	178.1	186.9	196.5	205.4	213.8
147.5°	133.1	138.7	146.0	153.1	160.4	167.8	175.9	183.4	190.9	197.9	204.0
150°	135.1	140.3	146.9	153.5	160.1	167.1	174.0	180.9	187.3	193.3	198.4
152.5°	137.2	141.9	147.8	153.8	159.7	165.9	172.4	178.4	184.3	189.4	193.9
155°	140.0	144.3	149.2	154.1	159.0	163.9	169.4	174.9	179.4	183.8	186.9
157.5°	142.4	146.0	150.2	154.1	157.7	161.8	166.6	170.8	174.6	178.2	180.8
160°	144.1	147.2	150.7	154.1	157.0	160.5	164.4	168.2	171.4	174.6	176.6
162.5°	145.4	147.9	150.9	153.8	156.3	159.3	162.7	165.7	168.4	171.1	172.7
165°	146.9	148.6	151.2	153.3	155.0	157.0	159.6	161.9	163.9	165.9	167.1
167.5°	148.2	149.3	151.2	152.9	153.7	155.0	156.6	158.2	159.8	161.2	162.2
170°	148.6	149.5	150.9	152.4	153.0	153.8	155.0	156.5	157.3	158.4	159.0
172.5°	149.1	149.8	150.7	151.7	152.1	152.5	153.4	154.3	155.0	155.9	156.2
175°	149.5	149.8	150.3	150.9	150.7	150.9	151.2	152.1	152.4	152.7	153.0
177.5°	149.8	149.8	150.0	150.5	150.0	149.8	150.0	150.5	150.5	150.7	150.7
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331287-930

CATALOG NUMBER: S122DIP-S485D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	759.9	759.4	759.4	757.2	759.4	759.4	759.9	762.3	763.0	763.5	762.5
5°	704.9	703.9	702.5	703.9	702.5	703.9	704.9	709.1	711.3	713.4	715.3
7.5°	650.5	646.9	646.3	642.7	646.3	646.9	650.5	652.5	656.7	661.5	665.9
10°	610.8	608.4	608.1	602.3	608.1	608.4	610.8	616.0	620.2	626.0	632.1
12.5°	580.6	574.7	575.9	572.6	575.9	574.7	580.6	580.7	585.6	589.2	598.8
15°	528.2	528.2	527.1	521.9	527.1	528.2	528.2	536.5	538.0	543.8	552.0
17.5°	490.7	490.1	487.1	488.6	487.1	490.1	490.7	496.8	497.7	505.5	512.3
20°	468.3	466.4	462.8	462.8	462.8	466.4	468.3	471.7	475.6	480.1	485.9
22.5°	447.1	446.9	443.1	444.3	443.1	446.9	447.1	450.2	454.0	459.0	463.8
25°	422.3	419.9	418.1	419.0	418.1	419.9	422.3	422.7	426.9	430.2	433.3
27.5°	398.8	397.5	397.4	394.8	397.4	397.5	398.8	399.6	402.0	404.0	406.8
30°	385.1	382.1	382.7	381.2	382.7	382.1	385.1	385.5	386.7	387.9	391.3
32.5°	369.6	368.5	367.9	366.6	367.9	368.5	369.6	370.1	372.6	373.8	376.4
35°	348.3	348.6	347.1	347.7	347.1	348.6	348.3	348.9	349.3	350.5	352.9
37.5°	329.8	330.8	330.0	330.2	330.0	330.8	329.8	330.0	330.4	330.5	331.3
40°	317.6	317.6	317.6	318.5	317.6	317.6	317.6	316.7	317.0	316.7	316.7
42.5°	305.9	305.4	304.9	304.8	304.9	305.4	305.9	303.8	304.8	303.8	303.3
45°	285.9	286.8	287.1	285.6	287.1	286.8	285.9	285.3	284.4	284.1	283.8
47.5°	267.8	267.9	267.8	269.1	267.8	267.9	267.8	267.0	265.6	265.1	263.6
50°	255.2	254.5	255.2	254.5	255.2	254.5	255.2	253.6	252.7	251.2	250.0
52.5°	241.7	241.9	241.5	241.4	241.5	241.9	241.7	239.8	239.3	238.8	236.8
55°	220.8	221.4	221.0	221.0	221.0	221.4	220.8	219.6	219.2	217.4	215.6
57.5°	199.0	199.6	200.0	198.6	200.0	199.6	199.0	198.9	198.6	196.7	194.8
60°	183.9	185.4	185.2	184.5	185.2	185.4	183.9	184.2	183.3	182.1	180.8
62.5°	170.0	170.6	170.5	170.4	170.5	170.6	170.0	168.6	168.2	167.0	165.8
65°	148.5	149.2	148.3	149.2	148.3	149.2	148.5	147.7	145.5	145.0	143.7
67.5°	125.5	125.7	126.4	126.8	126.4	125.7	125.5	125.9	124.5	123.4	123.1
70°	111.1	110.8	111.8	112.7	111.8	110.8	111.1	110.6	109.6	108.7	107.5
72.5°	96.0	96.7	96.4	97.1	96.4	96.7	96.0	96.1	95.2	94.1	92.9
75°	74.0	74.9	74.6	75.5	74.6	74.9	74.0	74.6	74.0	72.8	71.6
77.5°	53.5	53.6	53.5	54.0	53.5	53.6	53.5	54.0	53.3	53.7	52.3
80°	40.8	40.2	39.5	40.8	39.5	40.2	40.8	40.8	39.9	40.8	39.9
82.5°	28.4	28.8	28.1	28.1	28.1	28.8	28.4	29.1	28.7	29.1	28.2
85°	13.1	12.8	12.1	12.1	12.1	12.8	13.1	13.1	14.0	13.4	13.4
87.5°	4.3	4.1	4.1	3.8	4.1	4.1	4.3	4.3	4.2	4.6	4.7
90°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.2	8.6	9.2
92.5°	17.1	16.2	16.4	16.0	16.4	16.2	17.1	17.4	19.2	21.5	25.1
95°	35.7	33.4	32.5	32.9	32.5	33.4	35.7	39.5	45.8	57.9	75.5
97.5°	78.4	71.3	67.1	64.7	67.1	71.3	78.4	92.1	112.9	144.1	176.1
100°	129.1	116.7	108.4	103.1	108.4	116.7	129.1	153.0	187.8	227.3	263.0
102.5°	220.0	198.9	188.5	181.5	188.5	198.9	220.0	246.1	283.0	311.9	319.9
105°	358.9	341.0	328.6	324.7	328.6	341.0	358.9	376.8	386.3	382.5	350.0
107.5°	423.5	422.6	420.0	414.7	420.0	422.6	423.5	421.3	407.3	377.4	328.3
110°	434.1	439.6	442.2	441.9	442.2	439.6	434.1	421.8	398.1	361.3	309.7



TEST NUMBER: P331287-930

CATALOG NUMBER: S122DIP-S485D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	425.8	435.0	439.9	441.4	439.9	435.0	425.8	408.6	381.5	342.1	292.6
115°	403.9	417.1	424.6	427.2	424.6	417.1	403.9	383.4	353.8	316.0	271.7
117.5°	377.7	391.8	399.6	401.8	399.6	391.8	377.7	356.9	329.1	294.8	255.8
120°	360.7	374.2	382.5	385.5	382.5	374.2	360.7	340.5	314.3	283.7	248.0
122.5°	345.2	358.6	366.0	368.4	366.0	358.6	345.2	327.1	303.5	274.5	241.8
125°	326.1	337.0	344.2	346.6	344.2	337.0	326.1	309.4	287.8	262.4	232.8
127.5°	309.1	319.4	325.5	327.4	325.5	319.4	309.1	294.5	274.6	250.7	223.8
130°	298.7	308.5	314.3	316.6	314.3	308.5	298.7	284.6	265.6	242.9	218.1
132.5°	288.1	297.9	303.2	305.3	303.2	297.9	288.1	274.3	256.4	235.5	212.5
135°	271.3	280.9	286.1	287.2	286.1	280.9	271.3	258.9	242.9	223.8	204.8
137.5°	255.0	263.2	267.7	269.5	267.7	263.2	255.0	243.7	229.7	214.6	198.7
140°	243.7	251.2	255.5	257.2	255.5	251.2	243.7	234.5	221.8	208.6	194.7
142.5°	234.0	240.8	244.7	245.0	244.7	240.8	234.0	225.3	214.7	203.3	191.5
145°	220.6	225.6	228.4	229.3	228.4	225.6	220.6	213.8	205.4	196.5	186.9
147.5°	209.7	213.6	215.6	216.1	215.6	213.6	209.7	204.0	197.9	190.9	183.4
150°	202.8	206.3	208.0	208.3	208.0	206.3	202.8	198.4	193.3	187.3	180.9
152.5°	197.3	200.2	201.5	201.6	201.5	200.2	197.3	193.9	189.4	184.3	178.4
155°	190.1	192.2	193.3	192.7	193.3	192.2	190.1	186.9	183.8	179.4	174.9
157.5°	183.0	184.7	185.2	185.2	185.2	184.7	183.0	180.8	178.2	174.6	170.8
160°	178.6	180.0	180.3	180.3	180.3	180.0	178.6	176.6	174.6	171.4	168.2
162.5°	174.7	175.7	175.9	175.7	175.9	175.7	174.7	172.7	171.1	168.4	165.7
165°	168.2	169.4	169.4	169.1	169.4	169.4	168.2	167.1	165.9	163.9	161.9
167.5°	162.7	163.4	163.3	163.0	163.3	163.4	162.7	162.2	161.2	159.8	158.2
170°	159.3	160.1	159.9	159.3	159.9	160.1	159.3	159.0	158.4	157.3	156.5
172.5°	156.5	156.9	156.6	156.3	156.6	156.9	156.5	156.2	155.9	155.0	154.3
175°	153.0	153.3	153.0	152.4	153.0	153.3	153.0	153.0	152.7	152.4	152.1
177.5°	150.7	150.7	150.5	150.0	150.5	150.7	150.7	150.7	150.7	150.5	150.5
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331287-930

CATALOG NUMBER: S122DIP-S485D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	761.3	764.0	768.2	772.5	775.2	780.3	781.8	784.2	786.4	791.5	796.9
5°	717.4	721.6	731.6	737.1	744.8	753.6	759.4	765.5	772.2	783.7	794.4
7.5°	670.3	677.4	689.8	700.1	710.9	723.6	732.7	744.8	754.7	771.0	786.7
10°	638.8	648.8	660.1	672.3	687.5	700.9	713.7	729.0	741.1	760.6	778.9
12.5°	610.6	612.0	628.2	641.6	662.4	679.0	693.7	713.3	725.3	748.4	767.7
15°	561.2	570.3	584.9	595.6	620.2	641.2	661.9	682.3	696.0	724.6	749.9
17.5°	519.6	528.0	543.0	560.4	578.1	599.0	625.8	647.3	665.9	698.6	728.6
20°	493.3	503.6	518.9	536.8	552.4	575.2	598.3	623.0	643.0	679.9	714.9
22.5°	470.8	479.0	491.3	509.0	526.0	546.9	572.3	599.1	620.2	659.9	695.5
25°	439.4	446.1	454.0	468.6	487.8	510.6	530.4	559.9	590.7	627.9	670.7
27.5°	411.0	415.7	422.7	435.6	450.5	471.8	493.8	521.8	552.8	593.0	638.4
30°	393.7	396.7	403.7	414.4	429.0	445.7	468.0	494.8	526.4	567.3	612.3
32.5°	378.6	381.4	386.0	396.2	408.8	423.1	443.1	469.9	500.1	540.2	590.1
35°	356.0	358.1	362.0	370.2	377.2	391.3	408.0	432.4	460.6	499.0	550.8
37.5°	333.4	336.2	338.7	342.2	351.1	360.4	375.0	395.5	423.3	462.0	511.4
40°	318.5	320.9	324.6	326.1	333.4	341.6	353.5	372.3	400.4	435.7	483.8
42.5°	303.4	305.8	308.0	309.8	316.1	323.3	334.0	350.3	375.0	409.4	457.1
45°	282.8	283.2	285.3	288.6	291.7	296.9	304.5	318.5	337.7	370.0	413.2
47.5°	262.0	262.4	262.8	264.2	267.6	272.2	277.3	288.7	305.9	331.7	373.7
50°	248.2	247.5	248.2	249.4	251.5	255.4	261.2	269.5	283.5	307.5	346.2
52.5°	234.7	234.6	234.2	234.7	236.4	239.1	243.2	250.2	262.8	284.9	318.9
55°	214.3	212.8	213.1	211.9	214.7	215.2	218.3	224.1	235.1	250.3	282.3
57.5°	192.6	191.4	190.0	189.6	189.4	191.0	193.5	198.0	206.4	219.8	245.7
60°	178.7	177.2	175.4	174.8	174.8	175.7	176.9	180.3	188.2	200.1	221.4
62.5°	164.6	162.8	161.8	160.1	159.6	160.6	161.8	164.2	169.9	181.1	199.4
65°	142.8	140.6	139.2	138.8	138.3	137.3	137.9	140.4	145.0	153.8	168.4
67.5°	120.9	119.0	118.5	116.8	115.9	116.1	115.9	118.1	120.7	128.3	139.3
70°	106.6	105.0	104.4	102.9	102.3	101.7	101.1	102.9	105.7	112.0	121.5
72.5°	92.0	90.7	89.4	88.1	88.2	87.6	87.5	88.5	90.8	96.7	104.0
75°	70.9	71.3	69.7	68.2	67.9	67.3	67.3	68.2	69.1	73.7	79.5
77.5°	51.4	51.2	49.9	49.4	49.2	48.5	49.2	49.7	50.2	53.3	57.6
80°	39.3	39.3	37.7	37.7	37.4	36.5	37.4	36.9	38.1	41.1	44.2
82.5°	28.0	27.6	27.6	27.1	27.0	26.3	26.7	27.3	27.8	29.9	31.7
85°	13.7	13.7	13.4	13.1	13.4	13.1	13.4	13.7	14.0	14.9	16.5
87.5°	4.8	5.1	5.3	5.2	4.8	4.7	4.8	5.0	5.3	5.4	5.4
90°	9.5	9.8	9.5	7.7	5.8	4.3	3.4	2.9	2.3	1.1	0.3
92.5°	31.6	37.4	36.9	28.8	19.6	13.0	10.4	8.4	7.2	5.1	3.5
95°	98.8	112.9	100.0	66.5	41.5	28.2	21.3	16.7	14.1	11.3	10.1
97.5°	202.2	192.7	145.2	89.7	54.7	38.1	30.2	24.9	21.0	17.9	16.4
100°	269.0	227.6	156.7	94.5	59.4	44.1	36.0	30.2	25.6	23.1	22.2
102.5°	293.9	228.7	152.3	94.7	63.5	49.4	41.3	35.3	30.7	28.1	27.5
105°	290.1	213.4	143.7	96.2	70.6	57.1	49.0	42.6	38.3	36.3	35.1
107.5°	264.8	197.1	139.5	100.2	77.9	64.7	56.6	50.3	46.3	44.4	43.5
110°	248.9	189.2	138.6	103.4	82.7	70.0	61.6	55.6	51.9	50.1	49.0



TEST NUMBER: P331287-930

CATALOG NUMBER: S122DIP-S485D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.8	184.2	138.8	106.9	87.3	75.1	66.4	60.7	57.2	55.2	54.1
115°	224.1	178.6	140.0	112.0	94.5	82.1	74.4	68.6	65.1	63.3	62.0
117.5°	215.5	175.9	142.1	117.6	101.1	89.7	81.6	76.1	73.0	71.3	70.1
120°	210.8	174.3	143.5	121.3	105.7	94.5	86.4	80.6	78.1	76.3	75.2
122.5°	206.9	173.3	145.0	124.5	110.1	99.5	91.2	85.5	82.7	81.0	80.1
125°	201.4	171.7	147.5	129.6	116.7	106.3	98.2	92.5	89.0	87.3	86.4
127.5°	196.2	170.7	149.9	134.4	122.8	112.7	104.4	98.9	95.1	92.6	91.5
130°	192.7	170.2	151.8	137.4	126.5	116.3	108.4	102.6	98.5	95.6	94.5
132.5°	190.0	170.0	153.7	140.4	129.7	120.1	112.0	106.0	101.7	98.7	97.3
135°	186.1	169.7	155.9	144.3	134.3	125.0	117.0	110.3	106.0	102.6	101.4
137.5°	183.4	169.6	157.8	147.3	137.9	128.8	121.3	114.8	110.1	106.7	105.3
140°	181.7	169.4	158.7	149.0	140.0	131.3	123.8	117.6	112.9	109.5	108.4
142.5°	180.2	169.4	159.4	150.3	141.6	133.2	126.2	120.1	115.4	112.3	111.3
145°	178.1	168.8	160.1	152.1	144.1	136.2	130.0	124.2	119.8	117.0	115.8
147.5°	175.9	167.8	160.4	153.1	146.0	138.7	133.1	128.2	124.3	121.5	120.7
150°	174.0	167.1	160.1	153.5	146.9	140.3	135.1	130.8	127.0	124.7	123.8
152.5°	172.4	165.9	159.7	153.8	147.8	141.9	137.2	133.1	129.8	127.5	127.1
155°	169.4	163.9	159.0	154.1	149.2	144.3	140.0	136.8	133.6	131.9	131.7
157.5°	166.6	161.8	157.7	154.1	150.2	146.0	142.4	139.9	137.1	135.7	135.4
160°	164.4	160.5	157.0	154.1	150.7	147.2	144.1	141.7	139.4	138.3	137.9
162.5°	162.7	159.3	156.3	153.8	150.9	147.9	145.4	143.3	141.5	140.3	140.6
165°	159.6	157.0	155.0	153.3	151.2	148.6	146.9	145.4	143.7	143.2	143.5
167.5°	156.6	155.0	153.7	152.9	151.2	149.3	148.2	147.2	146.0	145.5	145.9
170°	155.0	153.8	153.0	152.4	150.9	149.5	148.6	148.1	147.2	146.9	147.5
172.5°	153.4	152.5	152.1	151.7	150.7	149.8	149.1	148.8	147.9	148.1	148.4
175°	151.2	150.9	150.7	150.9	150.3	149.8	149.5	149.5	149.0	149.2	149.5
177.5°	150.0	149.8	150.0	150.5	150.0	149.8	149.8	149.8	149.4	149.5	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331287-930

CATALOG NUMBER: S122DIP-S485D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	796.4	797.6	801.5	805.4	809.8	811.0	812.9	811.2	810.7	815.4	818.8
5°	798.7	804.1	814.8	824.5	832.7	838.5	844.7	847.1	851.7	858.0	865.9
7.5°	796.1	806.7	823.5	837.7	853.1	864.3	873.0	880.4	889.4	901.6	914.8
10°	793.2	807.5	827.9	845.2	864.1	878.4	890.3	901.9	915.3	932.1	949.3
12.5°	787.8	804.8	830.3	850.8	875.1	889.2	905.1	930.1	944.5	967.8	992.2
15°	777.1	795.9	831.5	856.8	884.2	911.0	940.5	964.3	988.1	1001.8	1036.2
17.5°	761.0	788.7	828.2	857.7	892.5	934.7	967.8	994.8	1022.2	1044.4	1061.7
20°	748.1	778.3	823.3	858.7	900.0	945.4	983.5	1010.9	1034.6	1053.2	1063.9
22.5°	731.8	769.7	813.6	855.0	907.8	952.8	992.7	1014.3	1034.1	1043.2	1047.3
25°	706.0	751.8	801.4	851.9	911.6	959.1	995.6	1008.8	1014.6	1005.7	991.1
27.5°	678.4	729.3	787.3	846.2	909.3	955.0	981.1	979.1	969.3	940.7	917.9
30°	657.7	713.7	776.1	840.3	903.7	948.1	963.4	948.1	925.9	894.0	861.4
32.5°	636.0	694.0	764.2	832.1	893.5	932.5	935.9	909.6	875.2	838.9	798.3
35°	603.2	665.9	741.7	813.6	871.7	896.4	881.7	835.5	794.7	745.1	689.7
37.5°	566.1	635.4	711.3	786.4	839.2	845.6	809.3	760.6	703.0	644.7	579.5
40°	538.3	611.7	690.0	765.7	812.4	805.7	759.4	705.8	637.2	566.1	505.4
42.5°	513.5	586.9	666.6	740.9	778.3	759.9	705.8	640.0	566.4	499.3	443.8
45°	470.4	545.9	627.5	699.4	720.7	687.5	616.0	542.9	470.4	414.4	370.6
47.5°	428.7	503.3	584.1	647.3	654.8	610.2	532.0	456.8	394.5	348.9	318.0
50°	397.9	472.9	552.9	609.3	606.8	552.9	472.5	401.0	348.9	312.1	291.4
52.5°	370.4	441.2	518.1	569.3	556.4	497.7	420.9	357.4	314.6	285.8	267.0
55°	327.6	393.1	466.2	507.3	483.6	418.3	353.5	302.3	270.7	249.1	234.5
57.5°	285.1	346.5	409.0	434.4	408.1	348.0	293.9	256.8	233.0	217.0	207.5
60°	258.8	312.4	368.1	390.0	358.7	305.1	262.4	229.3	210.1	197.0	188.5
62.5°	232.5	280.5	333.0	345.0	316.3	271.0	233.3	205.6	189.9	178.2	170.2
65°	196.7	235.9	275.9	283.8	257.3	222.3	192.4	174.5	160.5	152.0	145.5
67.5°	161.3	192.8	221.1	227.5	204.3	180.0	158.4	142.8	133.3	126.2	120.8
70°	140.4	165.3	188.5	193.6	175.0	153.4	137.1	124.5	116.0	109.9	104.8
72.5°	118.2	139.0	158.2	161.8	146.6	130.0	116.6	106.7	99.2	95.3	90.3
75°	90.4	102.6	117.6	118.5	108.4	98.3	88.0	81.6	77.6	72.8	70.4
77.5°	63.8	73.4	81.9	83.6	77.6	70.8	65.0	59.9	56.6	54.3	52.1
80°	48.8	56.3	60.0	62.1	57.9	53.0	49.7	46.3	44.2	42.6	41.1
82.5°	34.8	39.5	43.0	44.6	42.2	39.4	36.0	34.1	32.4	31.1	30.7
85°	17.7	19.8	21.9	22.5	21.9	20.7	18.9	18.9	17.9	17.7	17.7
87.5°	6.4	7.5	7.7	8.5	8.2	8.5	8.9	9.0	8.8	8.5	8.2
90°	1.1	2.3	2.9	3.4	4.3	5.8	7.7	9.5	9.8	9.5	9.2
92.5°	5.1	7.2	8.4	10.4	13.0	19.6	28.8	36.9	37.4	31.6	25.1
95°	11.3	14.1	16.7	21.3	28.2	41.5	66.5	100.0	112.9	98.8	75.5
97.5°	17.9	21.0	24.9	30.2	38.1	54.7	89.7	145.2	192.7	202.2	176.1
100°	23.1	25.6	30.2	36.0	44.1	59.4	94.5	156.7	227.6	269.0	263.0
102.5°	28.1	30.7	35.3	41.3	49.4	63.5	94.7	152.3	228.7	293.9	319.9
105°	36.3	38.3	42.6	49.0	57.1	70.6	96.2	143.7	213.4	290.1	350.0
107.5°	44.4	46.3	50.3	56.6	64.7	77.9	100.2	139.5	197.1	264.8	328.3
110°	50.1	51.9	55.6	61.6	70.0	82.7	103.4	138.6	189.2	248.9	309.7



TEST NUMBER: P331287-930

CATALOG NUMBER: S122DIP-S485D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	55.2	57.2	60.7	66.4	75.1	87.3	106.9	138.8	184.2	237.8	292.6
115°	63.3	65.1	68.6	74.4	82.1	94.5	112.0	140.0	178.6	224.1	271.7
117.5°	71.3	73.0	76.1	81.6	89.7	101.1	117.6	142.1	175.9	215.5	255.8
120°	76.3	78.1	80.6	86.4	94.5	105.7	121.3	143.5	174.3	210.8	248.0
122.5°	81.0	82.7	85.5	91.2	99.5	110.1	124.5	145.0	173.3	206.9	241.8
125°	87.3	89.0	92.5	98.2	106.3	116.7	129.6	147.5	171.7	201.4	232.8
127.5°	92.6	95.1	98.9	104.4	112.7	122.8	134.4	149.9	170.7	196.2	223.8
130°	95.6	98.5	102.6	108.4	116.3	126.5	137.4	151.8	170.2	192.7	218.1
132.5°	98.7	101.7	106.0	112.0	120.1	129.7	140.4	153.7	170.0	190.0	212.5
135°	102.6	106.0	110.3	117.0	125.0	134.3	144.3	155.9	169.7	186.1	204.8
137.5°	106.7	110.1	114.8	121.3	128.8	137.9	147.3	157.8	169.6	183.4	198.7
140°	109.5	112.9	117.6	123.8	131.3	140.0	149.0	158.7	169.4	181.7	194.7
142.5°	112.3	115.4	120.1	126.2	133.2	141.6	150.3	159.4	169.4	180.2	191.5
145°	117.0	119.8	124.2	130.0	136.2	144.1	152.1	160.1	168.8	178.1	186.9
147.5°	121.5	124.3	128.2	133.1	138.7	146.0	153.1	160.4	167.8	175.9	183.4
150°	124.7	127.0	130.8	135.1	140.3	146.9	153.5	160.1	167.1	174.0	180.9
152.5°	127.5	129.8	133.1	137.2	141.9	147.8	153.8	159.7	165.9	172.4	178.4
155°	131.9	133.6	136.8	140.0	144.3	149.2	154.1	159.0	163.9	169.4	174.9
157.5°	135.7	137.1	139.9	142.4	146.0	150.2	154.1	157.7	161.8	166.6	170.8
160°	138.3	139.4	141.7	144.1	147.2	150.7	154.1	157.0	160.5	164.4	168.2
162.5°	140.3	141.5	143.3	145.4	147.9	150.9	153.8	156.3	159.3	162.7	165.7
165°	143.2	143.7	145.4	146.9	148.6	151.2	153.3	155.0	157.0	159.6	161.9
167.5°	145.5	146.0	147.2	148.2	149.3	151.2	152.9	153.7	155.0	156.6	158.2
170°	146.9	147.2	148.1	148.6	149.5	150.9	152.4	153.0	153.8	155.0	156.5
172.5°	148.1	147.9	148.8	149.1	149.8	150.7	151.7	152.1	152.5	153.4	154.3
175°	149.2	149.0	149.5	149.5	149.8	150.3	150.9	150.7	150.9	151.2	152.1
177.5°	149.5	149.4	149.8	149.8	149.8	150.0	150.5	150.0	149.8	150.0	150.5
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	821.7	825.2	825.2	825.7	829.5	829.1	828.8
5°	874.5	879.6	880.3	885.7	889.4	888.2	884.8
7.5°	924.2	933.8	941.2	945.3	950.1	953.0	951.7
10°	963.7	977.7	986.2	992.0	999.0	1004.2	1002.3
12.5°	999.5	1016.2	1027.8	1037.8	1038.7	1045.4	1040.8
15°	1055.3	1073.0	1074.8	1082.1	1087.9	1087.3	1087.6
17.5°	1073.7	1079.5	1080.6	1080.8	1080.8	1078.7	1074.1
20°	1067.2	1065.1	1059.9	1056.0	1049.0	1048.0	1042.0
22.5°	1036.0	1029.2	1016.3	1007.7	996.8	993.9	992.2
25°	974.6	959.7	939.0	919.2	913.7	903.1	906.1
27.5°	890.4	867.2	844.7	828.7	814.2	798.2	802.7
30°	831.2	805.0	773.4	749.0	733.5	718.3	715.5
32.5°	760.6	722.2	686.9	665.4	641.6	632.0	621.5
35°	638.8	601.4	566.3	536.2	518.9	505.4	493.3
37.5°	529.2	486.2	457.9	433.5	420.9	413.3	415.2
40°	461.3	423.5	402.8	384.3	372.7	367.2	368.4
42.5°	406.3	378.0	360.9	348.2	340.1	337.0	336.2
45°	343.7	327.9	313.9	306.6	302.6	299.3	297.2
47.5°	301.2	288.2	280.3	276.0	272.5	269.1	269.0
50°	275.6	267.0	261.5	257.0	254.2	251.8	254.0
52.5°	256.1	248.3	242.8	238.7	237.7	235.5	235.5
55°	227.1	221.0	217.1	213.4	211.7	210.4	208.9
57.5°	200.8	195.0	191.4	189.1	185.6	184.4	183.9
60°	182.1	177.5	173.8	170.8	169.3	166.9	166.9
62.5°	164.8	160.2	156.8	154.5	152.0	151.0	151.2
65°	139.7	136.1	132.7	130.3	129.7	127.9	128.5
67.5°	116.8	114.3	110.8	109.4	108.3	107.3	106.6
70°	101.4	99.0	97.1	95.3	94.4	94.4	94.4
72.5°	88.5	85.5	84.5	82.2	82.7	81.7	80.7
75°	68.5	66.7	65.8	64.8	63.3	63.3	63.3
77.5°	50.4	49.9	48.8	47.8	47.5	47.1	47.3
80°	39.0	38.6	38.1	38.1	37.4	37.2	36.5
82.5°	29.9	29.2	28.8	28.5	28.5	28.4	28.3
85°	17.0	16.5	16.5	16.7	16.1	16.1	16.5
87.5°	8.3	8.4	8.2	8.2	8.5	8.2	8.2
90°	8.6	9.2	9.5	9.5	9.5	9.5	9.5
92.5°	21.5	19.2	17.4	17.1	16.2	16.4	16.0
95°	57.9	45.8	39.5	35.7	33.4	32.5	32.9
97.5°	144.1	112.9	92.1	78.4	71.3	67.1	64.7
100°	227.3	187.8	153.0	129.1	116.7	108.4	103.1
102.5°	311.9	283.0	246.1	220.0	198.9	188.5	181.5
105°	382.5	386.3	376.8	358.9	341.0	328.6	324.7
107.5°	377.4	407.3	421.3	423.5	422.6	420.0	414.7
110°	361.3	398.1	421.8	434.1	439.6	442.2	441.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	342.1	381.5	408.6	425.8	435.0	439.9	441.4
115°	316.0	353.8	383.4	403.9	417.1	424.6	427.2
117.5°	294.8	329.1	356.9	377.7	391.8	399.6	401.8
120°	283.7	314.3	340.5	360.7	374.2	382.5	385.5
122.5°	274.5	303.5	327.1	345.2	358.6	366.0	368.4
125°	262.4	287.8	309.4	326.1	337.0	344.2	346.6
127.5°	250.7	274.6	294.5	309.1	319.4	325.5	327.4
130°	242.9	265.6	284.6	298.7	308.5	314.3	316.6
132.5°	235.5	256.4	274.3	288.1	297.9	303.2	305.3
135°	223.8	242.9	258.9	271.3	280.9	286.1	287.2
137.5°	214.6	229.7	243.7	255.0	263.2	267.7	269.5
140°	208.6	221.8	234.5	243.7	251.2	255.5	257.2
142.5°	203.3	214.7	225.3	234.0	240.8	244.7	245.0
145°	196.5	205.4	213.8	220.6	225.6	228.4	229.3
147.5°	190.9	197.9	204.0	209.7	213.6	215.6	216.1
150°	187.3	193.3	198.4	202.8	206.3	208.0	208.3
152.5°	184.3	189.4	193.9	197.3	200.2	201.5	201.6
155°	179.4	183.8	186.9	190.1	192.2	193.3	192.7
157.5°	174.6	178.2	180.8	183.0	184.7	185.2	185.2
160°	171.4	174.6	176.6	178.6	180.0	180.3	180.3
162.5°	168.4	171.1	172.7	174.7	175.7	175.9	175.7
165°	163.9	165.9	167.1	168.2	169.4	169.4	169.1
167.5°	159.8	161.2	162.2	162.7	163.4	163.3	163.0
170°	157.3	158.4	159.0	159.3	160.1	159.9	159.3
172.5°	155.0	155.9	156.2	156.5	156.9	156.6	156.3
175°	152.4	152.7	153.0	153.0	153.3	153.0	152.4
177.5°	150.5	150.7	150.7	150.7	150.7	150.5	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8

(END OF REPORT)