

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: P331294-935

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331294-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S485D530U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3667.2 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

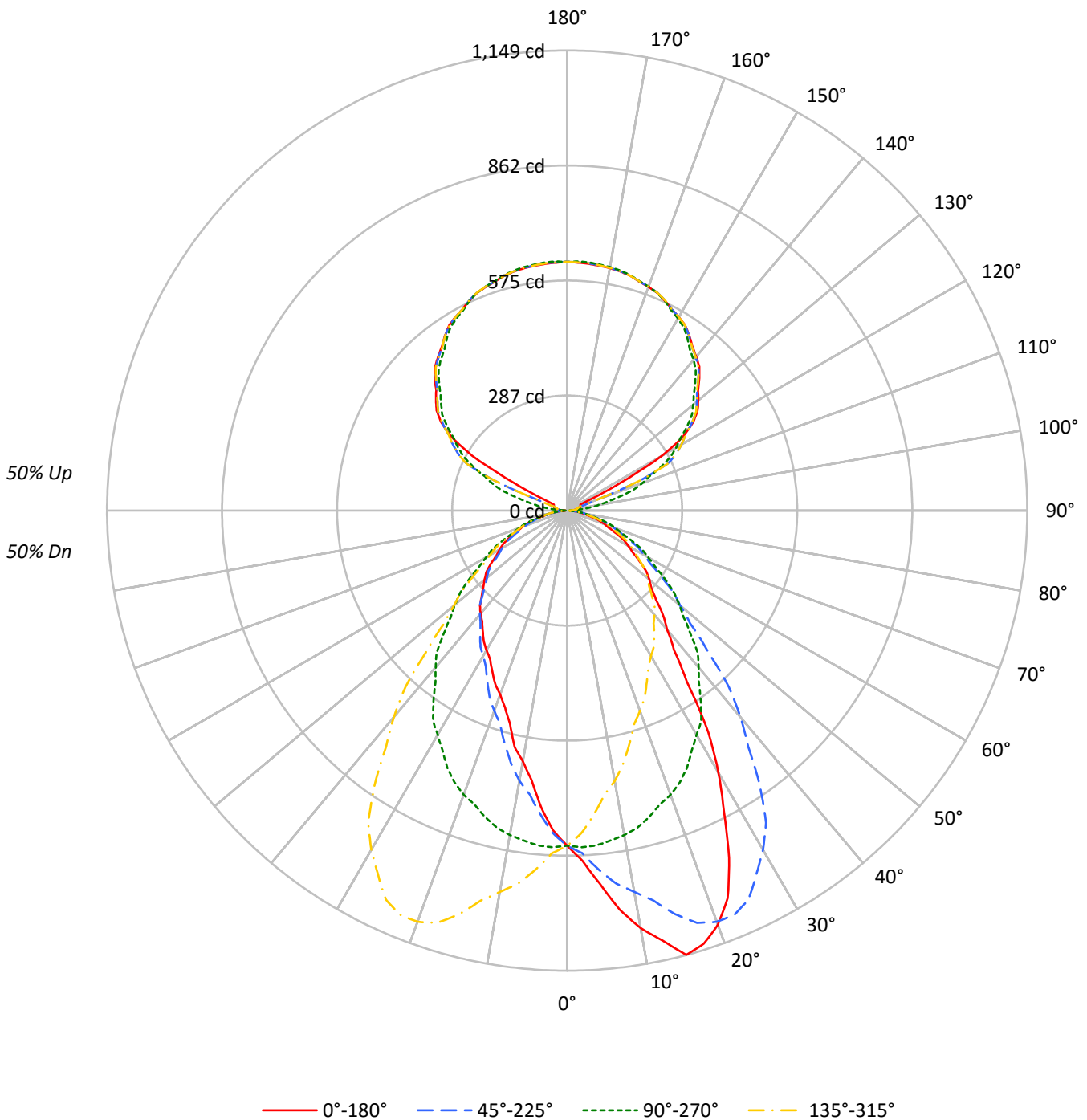
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50
1	98	94	90	87	91	87	84	81	74	72	70	62	60	59	51	50	49	43
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	43	42	37
3	82	73	66	61	76	68	62	57	58	53	50	49	46	43	40	38	36	32
4	76	65	57	52	70	61	54	49	52	47	43	44	40	37	36	34	31	28
5	70	58	50	45	64	54	47	42	47	41	37	40	36	32	33	30	28	25
6	64	52	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	60	48	40	34	55	44	37	33	38	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	22	20	18
9	52	40	32	27	48	37	31	26	32	27	23	28	24	21	24	21	18	16
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13508	13508	13508	13508
5°	15144	13598	12049	13598
10°	17354	13485	10427	13485
15°	19199	13237	9212	13237
20°	18907	12972	8399	12972
25°	17047	12618	7883	12618
30°	14087	12055	7506	12055
35°	10267	11466	7238	11466
40°	8201	10768	7088	10768
45°	7165	9965	6887	9965
50°	6737	9183	6752	9183
55°	6210	8391	6570	8391
60°	5690	7550	6290	7550
65°	5184	6793	6021	6793
70°	4707	6057	5618	6057
75°	4173	5234	4972	5234
80°	3589	4342	3998	4342
85°	3223	3223	2371	3223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	2.2
10°-20°	231.6	6.3
20°-30°	336.2	9.2
30°-40°	354.8	9.7
40°-50°	314.1	8.6
50°-60°	250.7	6.8
60°-70°	170.4	4.6
70°-80°	87.4	2.4
80°-90°	22.6	0.6
90°-100°	20.7	0.6
100°-110°	76.0	2.1
110°-120°	203.0	5.5
120°-130°	335.2	9.1
130°-140°	356.5	9.7
140°-150°	331.3	9.0
150°-160°	266.4	7.3
160°-170°	171.7	4.7
170°-180°	59.1	1.6
0°-30°	647.5	17.7
0°-40°	1002.3	27.3
0°-60°	1567.1	42.7
0°-90°	1847.4	50.4
90°-120°	299.7	8.2
90°-150°	1322.7	36.1
90°-180°	1820.0	49.6
0°-180°	3667.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	837	837	837	837	837	
5°	934	839	743	839	934	93
15°	1149	792	551	792	1149	317
25°	957	708	442	708	957	432
35°	521	582	367	582	521	339
45°	314	436	302	436	314	247
55°	221	298	233	298	221	198
65°	136	178	158	178	136	135
75°	67	84	80	84	67	71
85°	17	17	13	17	17	19
90°	12	0	12	0	12	6
95°	19	29	19	29	19	18
105°	34	137	34	137	34	36
115°	37	258	37	258	37	92
125°	384	365	384	365	384	332
135°	467	452	467	452	467	360
145°	532	524	532	524	532	333
155°	578	577	578	577	578	267
165°	607	608	607	608	607	171
175°	619	622	619	622	619	59
180°	621	621	621	621	621	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	875.3	875.6	876.0	871.9	871.4	871.4	867.8	864.7	861.1	856.2	856.7
5°	934.4	938.0	939.3	935.4	929.6	928.9	923.5	914.5	906.1	899.4	894.6
7.5°	1005.0	1006.4	1003.3	998.2	993.9	986.2	976.0	966.0	952.1	939.3	929.8
10°	1058.5	1060.5	1055.0	1047.6	1041.5	1032.5	1017.7	1002.5	984.3	966.6	952.4
12.5°	1099.2	1104.0	1096.9	1096.0	1085.5	1073.2	1055.5	1047.8	1022.1	997.5	982.2
15°	1148.6	1148.2	1148.9	1142.8	1135.1	1133.2	1114.5	1094.2	1057.9	1043.4	1018.3
17.5°	1134.3	1139.2	1141.4	1141.3	1141.2	1140.0	1133.9	1121.2	1102.9	1079.5	1050.6
20°	1100.4	1106.7	1107.8	1115.2	1119.3	1124.8	1127.0	1123.5	1112.2	1092.6	1067.6
22.5°	1047.8	1049.6	1052.7	1064.2	1073.2	1086.9	1094.1	1106.0	1101.6	1092.1	1071.2
25°	956.9	953.7	964.9	970.8	991.6	1013.5	1029.2	1046.6	1062.0	1071.4	1065.3
27.5°	847.7	842.9	859.8	875.1	892.1	915.8	940.3	969.3	993.4	1023.6	1034.0
30°	755.6	758.5	774.6	791.0	816.7	850.2	877.8	909.6	944.1	977.8	1001.3
32.5°	656.3	667.4	677.6	702.7	725.4	762.7	803.2	843.0	886.0	924.3	960.6
35°	520.9	533.7	547.9	566.3	598.1	635.1	674.6	728.3	786.9	839.2	882.4
37.5°	438.4	436.4	444.5	457.8	483.5	513.4	558.9	612.0	680.9	742.4	803.2
40°	389.1	387.8	393.6	405.8	425.4	447.3	487.2	533.7	597.8	673.0	745.4
42.5°	355.1	355.9	359.1	367.7	381.2	399.2	429.0	468.7	527.3	598.1	675.9
45°	313.8	316.1	319.6	323.8	331.5	346.3	363.0	391.3	437.6	496.8	573.3
47.5°	284.1	284.2	287.7	291.4	296.0	304.4	318.1	335.8	368.4	416.6	482.4
50°	268.2	265.9	268.5	271.4	276.2	282.0	291.0	307.7	329.6	368.5	423.4
52.5°	248.7	248.7	251.0	252.1	256.4	262.2	270.4	282.0	301.8	332.3	377.5
55°	220.6	222.2	223.5	225.4	229.3	233.4	239.9	247.6	263.0	285.9	319.3
57.5°	194.2	194.8	196.0	199.7	202.2	206.0	212.1	219.1	229.1	246.1	271.2
60°	176.2	176.2	178.7	180.4	183.6	187.4	192.3	199.1	208.0	221.9	242.1
62.5°	159.7	159.5	160.5	163.2	165.6	169.2	174.0	179.8	188.2	200.5	217.1
65°	135.7	135.1	137.0	137.6	140.2	143.7	147.6	153.7	160.5	169.4	184.3
67.5°	112.5	113.3	114.3	115.5	117.0	120.7	123.3	127.6	133.3	140.8	150.8
70°	99.7	99.7	99.7	100.7	102.5	104.5	107.1	110.6	116.1	122.5	131.5
72.5°	85.2	86.3	87.3	86.8	89.2	90.3	93.4	95.4	100.7	104.8	112.7
75°	66.9	66.9	66.9	68.4	69.5	70.4	72.3	74.3	76.9	82.0	86.2
77.5°	49.9	49.8	50.1	50.5	51.5	52.7	53.2	55.0	57.3	59.8	63.3
80°	38.6	39.3	39.5	40.2	40.2	40.8	41.2	43.4	45.0	46.7	48.9
82.5°	29.9	30.0	30.0	30.1	30.4	30.8	31.6	32.4	32.9	34.3	36.0
85°	17.4	17.0	17.0	17.7	17.4	17.4	18.0	18.7	18.7	18.9	20.0
87.5°	9.1	9.0	9.3	9.0	9.0	9.1	9.0	8.7	8.9	9.0	9.1
90°	12.1	12.0	11.7	11.5	11.4	11.0	10.5	10.0	9.5	9.0	8.2
92.5°	12.1	12.1	11.9	11.8	11.6	11.5	11.2	10.9	10.7	10.4	10.0
95°	19.3	19.5	19.5	19.6	19.7	19.5	19.0	18.5	18.0	17.6	16.8
97.5°	25.8	25.7	25.6	25.4	25.3	25.1	24.6	24.3	23.8	23.4	21.9
100°	30.1	29.9	29.7	29.5	29.3	28.8	28.0	27.2	26.4	25.6	23.9
102.5°	32.3	31.9	31.7	31.4	31.2	30.5	29.4	28.4	27.4	26.3	40.6
105°	34.2	33.8	33.3	33.0	32.5	31.8	30.7	29.6	28.5	27.4	54.7
107.5°	35.1	34.7	34.4	33.9	33.6	33.9	35.0	36.2	37.3	38.4	71.0
110°	35.5	35.1	34.7	34.3	33.9	38.7	48.6	58.6	68.6	78.6	107.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	35.8	35.6	35.2	34.9	34.6	52.6	89.0	125.4	161.9	198.4	205.4
115°	36.9	44.0	51.2	58.4	65.6	92.3	138.5	184.8	231.0	277.2	274.7
117.5°	150.4	174.1	197.7	221.3	245.0	262.3	273.5	284.7	295.9	307.0	305.4
120°	274.1	287.6	301.1	314.5	328.0	334.2	332.9	331.7	330.5	329.3	327.5
122.5°	342.0	344.7	347.2	349.9	352.5	353.4	352.8	352.0	351.3	350.6	348.6
125°	384.2	383.9	383.6	383.3	383.0	382.5	381.8	381.1	380.4	379.7	377.8
127.5°	410.8	410.7	410.7	410.6	410.5	410.0	409.0	407.9	406.9	406.0	404.5
130°	427.3	427.4	427.5	427.6	427.7	427.2	426.1	425.0	424.0	422.8	421.7
132.5°	443.5	443.6	443.7	443.8	443.8	443.5	442.6	441.6	440.7	439.7	438.6
135°	466.8	467.1	467.3	467.4	467.7	467.3	466.2	465.3	464.3	463.2	462.4
137.5°	488.2	488.5	488.8	489.1	489.5	489.2	488.2	487.2	486.3	485.3	484.2
140°	501.4	502.0	502.5	502.9	503.4	503.3	502.3	501.4	500.6	499.6	498.5
142.5°	514.4	514.9	515.4	515.9	516.4	516.3	515.4	514.6	513.8	513.0	511.7
145°	532.4	533.0	533.5	534.0	534.4	534.3	533.6	533.0	532.3	531.6	529.9
147.5°	548.4	548.8	549.2	549.7	550.0	550.0	549.5	549.0	548.5	547.9	546.2
150°	558.1	558.5	559.0	559.6	560.1	560.0	559.4	558.8	558.2	557.6	556.0
152.5°	566.4	567.0	567.7	568.3	568.9	569.0	568.4	567.8	567.2	566.6	565.1
155°	577.8	578.7	579.5	580.2	581.0	581.2	580.6	580.0	579.4	578.8	577.6
157.5°	588.3	589.1	589.9	590.6	591.5	591.5	590.8	590.1	589.4	588.8	588.0
160°	594.4	595.1	595.9	596.6	597.3	597.3	596.7	596.1	595.6	595.0	594.3
162.5°	599.5	600.4	601.2	602.1	603.0	603.0	602.4	601.7	601.0	600.3	599.8
165°	607.0	607.8	608.5	609.2	609.8	609.8	609.2	608.5	607.8	607.0	606.7
167.5°	611.8	612.7	613.6	614.5	615.4	615.5	614.8	614.1	613.4	612.7	612.4
170°	614.7	615.6	616.5	617.3	618.3	618.4	617.7	617.0	616.3	615.6	615.4
172.5°	616.8	617.8	618.6	619.6	620.4	620.5	619.8	619.1	618.5	617.8	617.5
175°	618.7	619.7	620.7	621.7	622.8	622.8	622.2	621.5	620.8	620.1	619.8
177.5°	619.9	620.6	621.3	622.1	622.8	622.8	622.3	621.7	621.2	620.6	620.5
180°	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	858.5	856.4	855.1	850.6	846.4	842.3	841.0	841.5	835.9	830.5	828.2
5°	892.0	885.5	879.4	870.7	860.5	849.2	843.4	839.0	827.7	815.5	808.4
7.5°	922.0	912.7	901.0	884.7	869.7	852.0	840.7	830.8	814.2	797.0	786.5
10°	940.2	927.6	912.6	892.6	874.3	852.7	837.7	822.5	803.2	782.6	769.8
12.5°	955.9	939.0	924.1	898.5	876.8	849.9	832.0	810.7	790.4	765.9	753.3
15°	993.2	962.1	933.8	904.8	878.1	840.5	820.6	791.9	765.3	735.0	720.6
17.5°	1022.1	987.1	942.5	905.8	874.6	832.9	803.7	769.4	737.8	703.3	683.6
20°	1038.6	998.4	950.5	906.8	869.4	821.9	790.1	755.0	718.0	679.1	657.9
22.5°	1048.4	1006.2	958.7	902.9	859.2	812.9	772.8	734.4	696.9	655.0	632.7
25°	1051.5	1012.9	962.7	899.7	846.3	793.9	745.6	708.3	663.1	623.8	591.3
27.5°	1036.1	1008.5	960.3	893.6	831.5	770.2	716.4	674.2	626.3	583.8	551.0
30°	1017.4	1001.3	954.3	887.4	819.6	753.7	694.6	646.6	599.1	555.9	522.5
32.5°	988.3	984.8	943.6	878.7	807.0	732.9	671.7	623.2	570.5	528.1	496.3
35°	931.2	946.7	920.6	859.2	783.3	703.3	637.0	581.7	527.0	486.5	456.6
37.5°	854.7	893.0	886.2	830.5	751.2	671.0	597.8	540.0	487.9	447.0	417.7
40°	801.9	850.8	857.9	808.7	728.7	646.0	568.5	510.9	460.1	422.8	393.2
42.5°	745.4	802.5	821.9	782.5	704.0	619.7	542.3	482.7	432.4	396.1	369.9
45°	650.5	726.1	761.1	738.6	662.7	576.5	496.8	436.4	390.7	356.6	336.3
47.5°	561.8	644.4	691.6	683.5	616.8	531.5	452.7	394.7	350.3	323.0	304.9
50°	499.0	583.9	640.8	643.4	583.9	499.4	420.3	365.6	324.8	299.4	284.6
52.5°	444.5	525.6	587.6	601.2	547.2	465.9	391.2	336.8	300.8	277.5	264.2
55°	373.3	441.8	510.7	535.7	492.3	415.1	345.9	298.1	264.3	248.2	236.7
57.5°	310.4	367.5	431.0	458.7	432.0	365.9	301.1	259.5	232.1	218.0	209.1
60°	277.2	322.2	378.8	411.9	388.7	329.9	273.3	233.8	211.3	198.7	190.4
62.5°	246.3	286.2	334.0	364.3	351.7	296.2	245.6	210.6	191.2	179.4	173.4
65°	203.2	234.7	271.7	299.7	291.4	249.2	207.8	177.8	162.4	153.1	148.3
67.5°	167.3	190.1	215.8	240.2	233.5	203.6	170.4	147.1	135.5	127.5	124.7
70°	144.7	162.0	184.9	204.5	199.1	174.6	148.3	128.3	118.3	111.6	108.7
72.5°	123.1	137.3	154.8	170.8	167.1	146.8	124.8	109.8	102.1	95.9	93.5
75°	92.9	103.8	114.5	125.1	124.2	108.4	95.5	83.9	77.8	73.0	72.1
77.5°	68.6	74.7	82.0	88.3	86.5	77.5	67.4	60.8	56.3	53.0	52.5
80°	52.4	56.0	61.1	65.6	63.4	59.5	51.5	46.7	43.4	40.2	38.9
82.5°	38.0	41.6	44.6	47.1	45.4	41.8	36.8	33.5	31.6	29.4	28.8
85°	20.0	21.9	23.2	23.8	23.2	20.9	18.7	17.4	15.8	14.8	14.5
87.5°	9.2	9.0	8.9	9.2	8.2	8.0	6.7	5.8	5.7	5.7	5.3
90°	7.4	6.6	5.8	4.8	3.7	2.7	1.5	0.4	1.5	2.7	3.7
92.5°	9.6	9.2	8.9	8.7	8.8	8.9	9.0	9.0	9.0	8.9	8.8
95°	16.1	15.4	14.7	16.0	19.3	22.6	25.9	29.2	25.9	22.6	19.3
97.5°	20.2	18.6	17.0	20.8	30.1	39.4	48.6	57.9	48.6	39.4	30.1
100°	22.2	20.5	18.9	24.8	38.5	52.2	65.9	79.6	65.9	52.2	38.5
102.5°	54.8	69.0	83.1	91.7	94.5	97.5	100.4	103.2	100.4	97.5	94.5
105°	82.0	109.2	136.5	148.6	145.6	142.6	139.6	136.6	139.6	142.6	145.6
107.5°	103.8	136.5	169.1	184.3	181.8	179.4	177.0	174.6	177.0	179.4	181.8
110°	136.4	165.2	194.1	207.4	205.3	203.3	201.1	199.1	201.1	203.3	205.3



TEST NUMBER: P331294-935

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	212.6	219.7	226.9	229.5	227.6	225.8	223.9	222.1	223.9	225.8	227.6
115°	272.2	269.8	267.3	265.2	263.5	261.7	260.0	258.4	260.0	261.7	263.5
117.5°	303.7	302.0	300.2	298.4	296.5	294.6	292.7	290.8	292.7	294.6	296.5
120°	325.8	324.0	322.2	320.6	319.0	317.5	316.0	314.5	316.0	317.5	319.0
122.5°	346.6	344.7	342.8	341.0	339.4	337.9	336.2	334.7	336.2	337.9	339.4
125°	375.9	374.0	372.1	370.5	369.2	367.9	366.6	365.3	366.6	367.9	369.2
127.5°	403.1	401.7	400.3	398.8	397.4	396.0	394.5	393.0	394.5	396.0	397.4
130°	420.6	419.6	418.4	417.1	415.5	413.9	412.2	410.7	412.2	413.9	415.5
132.5°	437.6	436.4	435.3	434.1	432.7	431.4	430.0	428.7	430.0	431.4	432.7
135°	461.5	460.5	459.7	458.4	456.8	455.2	453.7	452.0	453.7	455.2	456.8
137.5°	483.3	482.2	481.2	480.1	479.0	477.9	476.7	475.7	476.7	477.9	479.0
140°	497.5	496.4	495.2	494.3	493.5	492.8	491.9	491.1	491.9	492.8	493.5
142.5°	510.4	509.2	507.9	507.0	506.2	505.5	504.8	504.0	504.8	505.5	506.2
145°	528.1	526.5	524.8	524.0	524.1	524.2	524.3	524.3	524.3	524.2	524.1
147.5°	544.6	542.9	541.2	540.5	541.0	541.3	541.7	542.1	541.7	541.3	541.0
150°	554.4	552.8	551.2	550.8	551.5	552.2	552.8	553.5	552.8	552.2	551.5
152.5°	563.6	562.1	560.5	560.2	560.9	561.7	562.5	563.3	562.5	561.7	560.9
155°	576.4	575.1	573.9	573.8	574.7	575.6	576.5	577.4	576.5	575.6	574.7
157.5°	587.1	586.3	585.5	585.4	586.2	586.9	587.7	588.4	587.7	586.9	586.2
160°	593.7	593.1	592.5	592.5	593.1	593.7	594.3	595.0	594.3	593.7	593.1
162.5°	599.3	598.7	598.2	598.3	598.8	599.4	600.0	600.6	600.0	599.4	598.8
165°	606.4	606.1	605.9	606.0	606.6	607.2	607.8	608.4	607.8	607.2	606.6
167.5°	612.2	611.8	611.6	611.7	612.3	612.9	613.5	614.2	613.5	612.9	612.3
170°	615.2	615.0	614.8	615.0	615.6	616.2	616.8	617.3	616.8	616.2	615.6
172.5°	617.3	617.2	616.9	617.2	617.8	618.4	619.0	619.6	619.0	618.4	617.8
175°	619.7	619.5	619.3	619.5	620.3	621.0	621.6	622.3	621.6	621.0	620.3
177.5°	620.4	620.4	620.3	620.5	621.1	621.6	622.2	622.8	622.2	621.6	621.1
180°	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0



TEST NUMBER: P331294-935

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	825.6	824.1	818.6	815.8	811.2	806.8	804.0	805.3	806.3	805.8	805.0
5°	801.9	795.8	786.5	778.4	772.7	762.1	757.6	755.4	753.4	751.1	748.9
7.5°	773.8	764.1	750.8	739.3	728.5	715.3	707.8	703.3	698.6	693.5	689.1
10°	753.7	740.2	726.1	710.0	697.2	685.2	674.6	667.5	661.1	655.0	650.5
12.5°	732.6	717.0	699.6	677.6	663.4	646.4	644.8	632.3	622.2	618.5	613.2
15°	699.0	677.2	655.0	629.0	617.7	602.3	592.6	583.0	574.3	568.2	566.5
17.5°	660.9	632.6	610.5	591.9	573.4	557.6	548.7	541.0	533.8	525.6	524.6
20°	631.8	607.4	583.3	566.9	547.9	531.8	520.9	513.2	507.0	502.2	498.1
22.5°	604.3	577.6	555.5	537.5	518.8	505.8	497.2	489.8	484.7	479.4	475.4
25°	560.2	539.2	515.1	494.9	479.4	471.1	464.0	457.5	454.3	450.8	446.3
27.5°	521.5	498.3	475.7	460.0	446.4	439.0	434.0	429.6	426.6	424.6	422.0
30°	494.2	470.7	453.1	437.6	426.4	419.0	415.8	413.2	409.7	408.4	407.1
32.5°	468.0	446.9	431.7	418.4	407.6	402.8	399.8	397.5	394.8	393.5	390.9
35°	430.8	413.2	398.4	391.0	382.3	378.2	375.9	372.6	370.1	368.9	368.5
37.5°	396.0	380.6	370.8	361.4	357.7	355.1	352.1	349.8	349.0	348.9	348.5
40°	373.3	360.8	352.1	344.4	342.8	338.9	336.3	334.4	334.4	334.8	334.4
42.5°	352.8	341.5	333.8	327.2	325.3	323.0	320.4	320.3	320.8	321.8	320.8
45°	321.6	313.5	308.1	304.8	301.3	299.0	298.7	299.7	300.0	300.3	301.3
47.5°	292.8	287.5	282.6	279.1	277.5	277.1	276.7	278.4	279.9	280.5	282.0
50°	275.9	269.8	265.6	263.4	262.1	261.4	262.1	264.0	265.3	266.9	267.9
52.5°	256.8	252.5	249.7	247.9	247.4	247.8	247.9	250.1	252.2	252.7	253.2
55°	230.6	227.3	226.7	223.8	225.1	224.7	226.4	227.6	229.5	231.5	231.9
57.5°	204.3	201.7	200.0	200.3	200.6	202.1	203.4	205.7	207.8	209.7	210.0
60°	186.8	185.5	184.6	184.6	185.2	187.2	188.7	191.0	192.3	193.6	194.5
62.5°	170.9	169.6	168.6	169.1	170.8	171.9	173.8	175.0	176.3	177.6	178.1
65°	145.7	145.0	146.0	146.6	147.0	148.5	150.8	151.8	153.1	153.7	155.9
67.5°	122.4	122.6	122.4	123.4	125.2	125.6	127.7	130.0	130.3	131.5	132.9
70°	106.8	107.4	108.1	108.7	110.3	110.9	112.5	113.5	114.8	115.7	116.8
72.5°	92.4	92.5	93.2	93.0	94.4	95.7	97.1	98.1	99.4	100.6	101.5
75°	71.0	71.0	71.7	72.1	73.6	75.3	74.9	75.6	76.9	78.2	78.8
77.5°	51.9	51.2	51.9	52.2	52.7	54.1	54.3	55.3	56.7	56.3	57.0
80°	39.5	38.6	39.5	39.9	39.9	41.5	41.5	42.1	43.0	42.1	43.0
82.5°	28.2	27.8	28.5	28.6	29.1	29.1	29.6	29.8	30.7	30.3	30.7
85°	14.1	13.9	14.1	13.9	14.1	14.5	14.5	14.1	14.1	14.8	13.9
87.5°	5.3	5.3	5.2	5.3	5.3	5.2	5.0	5.1	5.2	4.7	4.8
90°	4.8	5.8	6.6	7.4	8.2	9.0	9.5	10.0	10.5	11.0	11.4
92.5°	8.7	8.9	9.2	9.6	10.0	10.4	10.7	10.9	11.2	11.5	11.6
95°	16.0	14.7	15.4	16.1	16.8	17.6	18.0	18.5	19.0	19.5	19.7
97.5°	20.8	17.0	18.6	20.2	21.9	23.4	23.8	24.3	24.6	25.1	25.3
100°	24.8	18.9	20.5	22.2	23.9	25.6	26.4	27.2	28.0	28.8	29.3
102.5°	91.7	83.1	69.0	54.8	40.6	26.3	27.4	28.4	29.4	30.5	31.2
105°	148.6	136.5	109.2	82.0	54.7	27.4	28.5	29.6	30.7	31.8	32.5
107.5°	184.3	169.1	136.5	103.8	71.0	38.4	37.3	36.2	35.0	33.9	33.6
110°	207.4	194.1	165.2	136.4	107.5	78.6	68.6	58.6	48.6	38.7	33.9



TEST NUMBER: P331294-935

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	229.5	226.9	219.7	212.6	205.4	198.4	161.9	125.4	89.0	52.6	34.6
115°	265.2	267.3	269.8	272.2	274.7	277.2	231.0	184.8	138.5	92.3	65.6
117.5°	298.4	300.2	302.0	303.7	305.4	307.0	295.9	284.7	273.5	262.3	245.0
120°	320.6	322.2	324.0	325.8	327.5	329.3	330.5	331.7	332.9	334.2	328.0
122.5°	341.0	342.8	344.7	346.6	348.6	350.6	351.3	352.0	352.8	353.4	352.5
125°	370.5	372.1	374.0	375.9	377.8	379.7	380.4	381.1	381.8	382.5	383.0
127.5°	398.8	400.3	401.7	403.1	404.5	406.0	406.9	407.9	409.0	410.0	410.5
130°	417.1	418.4	419.6	420.6	421.7	422.8	424.0	425.0	426.1	427.2	427.7
132.5°	434.1	435.3	436.4	437.6	438.6	439.7	440.7	441.6	442.6	443.5	443.8
135°	458.4	459.7	460.5	461.5	462.4	463.2	464.3	465.3	466.2	467.3	467.7
137.5°	480.1	481.2	482.2	483.3	484.2	485.3	486.3	487.2	488.2	489.2	489.5
140°	494.3	495.2	496.4	497.5	498.5	499.6	500.6	501.4	502.3	503.3	503.4
142.5°	507.0	507.9	509.2	510.4	511.7	513.0	513.8	514.6	515.4	516.3	516.4
145°	524.0	524.8	526.5	528.1	529.9	531.6	532.3	533.0	533.6	534.3	534.4
147.5°	540.5	541.2	542.9	544.6	546.2	547.9	548.5	549.0	549.5	550.0	550.0
150°	550.8	551.2	552.8	554.4	556.0	557.6	558.2	558.8	559.4	560.0	560.1
152.5°	560.2	560.5	562.1	563.6	565.1	566.6	567.2	567.8	568.4	569.0	568.9
155°	573.8	573.9	575.1	576.4	577.6	578.8	579.4	580.0	580.6	581.2	581.0
157.5°	585.4	585.5	586.3	587.1	588.0	588.8	589.4	590.1	590.8	591.5	591.5
160°	592.5	592.5	593.1	593.7	594.3	595.0	595.6	596.1	596.7	597.3	597.3
162.5°	598.3	598.2	598.7	599.3	599.8	600.3	601.0	601.7	602.4	603.0	603.0
165°	606.0	605.9	606.1	606.4	606.7	607.0	607.8	608.5	609.2	609.8	609.8
167.5°	611.7	611.6	611.8	612.2	612.4	612.7	613.4	614.1	614.8	615.5	615.4
170°	615.0	614.8	615.0	615.2	615.4	615.6	616.3	617.0	617.7	618.4	618.3
172.5°	617.2	616.9	617.2	617.3	617.5	617.8	618.5	619.1	619.8	620.5	620.4
175°	619.5	619.3	619.5	619.7	619.8	620.1	620.8	621.5	622.2	622.8	622.8
177.5°	620.5	620.3	620.4	620.4	620.5	620.6	621.2	621.7	622.3	622.8	622.8
180°	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0



TEST NUMBER: P331294-935

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	802.5	801.9	801.9	799.6	801.9	801.9	802.5	805.0	805.8	806.3	805.3
5°	744.4	743.4	741.8	743.4	741.8	743.4	744.4	748.9	751.1	753.4	755.4
7.5°	687.0	683.1	682.5	678.7	682.5	683.1	687.0	689.1	693.5	698.6	703.3
10°	645.1	642.5	642.1	636.0	642.1	642.5	645.1	650.5	655.0	661.1	667.5
12.5°	613.1	606.9	608.2	604.7	608.2	606.9	613.1	613.2	618.5	622.2	632.3
15°	557.8	557.8	556.6	551.1	556.6	557.8	557.8	566.5	568.2	574.3	583.0
17.5°	518.2	517.5	514.4	516.0	514.4	517.5	518.2	524.6	525.6	533.8	541.0
20°	494.6	492.6	488.8	488.8	488.8	492.6	494.6	498.1	502.2	507.0	513.2
22.5°	472.2	472.0	468.0	469.2	468.0	472.0	472.2	475.4	479.4	484.7	489.8
25°	446.0	443.4	441.5	442.5	441.5	443.4	446.0	446.3	450.8	454.3	457.5
27.5°	421.2	419.7	419.7	417.0	419.7	419.7	421.2	422.0	424.6	426.6	429.6
30°	406.7	403.6	404.2	402.6	404.2	403.6	406.7	407.1	408.4	409.7	413.2
32.5°	390.3	389.2	388.5	387.1	388.5	389.2	390.3	390.9	393.5	394.8	397.5
35°	367.8	368.2	366.5	367.2	366.5	368.2	367.8	368.5	368.9	370.1	372.6
37.5°	348.3	349.3	348.5	348.7	348.5	349.3	348.3	348.5	348.9	349.0	349.8
40°	335.4	335.4	335.4	336.3	335.4	335.4	335.4	334.4	334.8	334.4	334.4
42.5°	323.0	322.5	322.0	321.9	322.0	322.5	323.0	320.8	321.8	320.8	320.3
45°	302.0	302.9	303.2	301.6	303.2	302.9	302.0	301.3	300.3	300.0	299.7
47.5°	282.8	282.9	282.8	284.2	282.8	282.9	282.8	282.0	280.5	279.9	278.4
50°	269.5	268.8	269.5	268.8	269.5	268.8	269.5	267.9	266.9	265.3	264.0
52.5°	255.3	255.5	255.0	254.9	255.0	255.5	255.3	253.2	252.7	252.2	250.1
55°	233.2	233.8	233.4	233.4	233.4	233.8	233.2	231.9	231.5	229.5	227.6
57.5°	210.2	210.8	211.2	209.7	211.2	210.8	210.2	210.0	209.7	207.8	205.7
60°	194.2	195.8	195.5	194.8	195.5	195.8	194.2	194.5	193.6	192.3	191.0
62.5°	179.5	180.1	180.0	179.9	180.0	180.1	179.5	178.1	177.6	176.3	175.0
65°	156.9	157.6	156.6	157.6	156.6	157.6	156.9	155.9	153.7	153.1	151.8
67.5°	132.5	132.8	133.5	133.9	133.5	132.8	132.5	132.9	131.5	130.3	130.0
70°	117.4	117.0	118.0	119.0	118.0	117.0	117.4	116.8	115.7	114.8	113.5
72.5°	101.4	102.1	101.8	102.5	101.8	102.1	101.4	101.5	100.6	99.4	98.1
75°	78.2	79.1	78.8	79.7	78.8	79.1	78.2	78.8	78.2	76.9	75.6
77.5°	56.5	56.6	56.5	57.0	56.5	56.6	56.5	57.0	56.3	56.7	55.3
80°	43.0	42.4	41.8	43.0	41.8	42.4	43.0	43.0	42.1	43.0	42.1
82.5°	30.0	30.4	29.7	29.7	29.7	30.4	30.0	30.7	30.3	30.7	29.8
85°	13.9	13.5	12.8	12.8	12.8	13.5	13.9	13.9	14.8	14.1	14.1
87.5°	4.9	4.6	4.7	4.5	4.7	4.6	4.9	4.8	4.7	5.2	5.1
90°	11.5	11.7	12.0	12.1	12.0	11.7	11.5	11.4	11.0	10.5	10.0
92.5°	11.8	11.9	12.1	12.1	12.1	11.9	11.8	11.6	11.5	11.2	10.9
95°	19.6	19.5	19.5	19.3	19.5	19.5	19.6	19.7	19.5	19.0	18.5
97.5°	25.4	25.6	25.7	25.8	25.7	25.6	25.4	25.3	25.1	24.6	24.3
100°	29.5	29.7	29.9	30.1	29.9	29.7	29.5	29.3	28.8	28.0	27.2
102.5°	31.4	31.7	31.9	32.3	31.9	31.7	31.4	31.2	30.5	29.4	28.4
105°	33.0	33.3	33.8	34.2	33.8	33.3	33.0	32.5	31.8	30.7	29.6
107.5°	33.9	34.4	34.7	35.1	34.7	34.4	33.9	33.6	33.9	35.0	36.2
110°	34.3	34.7	35.1	35.5	35.1	34.7	34.3	33.9	38.7	48.6	58.6



TEST NUMBER: P331294-935

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	34.9	35.2	35.6	35.8	35.6	35.2	34.9	34.6	52.6	89.0	125.4
115°	58.4	51.2	44.0	36.9	44.0	51.2	58.4	65.6	92.3	138.5	184.8
117.5°	221.3	197.7	174.1	150.4	174.1	197.7	221.3	245.0	262.3	273.5	284.7
120°	314.5	301.1	287.6	274.1	287.6	301.1	314.5	328.0	334.2	332.9	331.7
122.5°	349.9	347.2	344.7	342.0	344.7	347.2	349.9	352.5	353.4	352.8	352.0
125°	383.3	383.6	383.9	384.2	383.9	383.6	383.3	383.0	382.5	381.8	381.1
127.5°	410.6	410.7	410.7	410.8	410.7	410.7	410.6	410.5	410.0	409.0	407.9
130°	427.6	427.5	427.4	427.3	427.4	427.5	427.6	427.7	427.2	426.1	425.0
132.5°	443.8	443.7	443.6	443.5	443.6	443.7	443.8	443.8	443.5	442.6	441.6
135°	467.4	467.3	467.1	466.8	467.1	467.3	467.4	467.7	467.3	466.2	465.3
137.5°	489.1	488.8	488.5	488.2	488.5	488.8	489.1	489.5	489.2	488.2	487.2
140°	502.9	502.5	502.0	501.4	502.0	502.5	502.9	503.4	503.3	502.3	501.4
142.5°	515.9	515.4	514.9	514.4	514.9	515.4	515.9	516.4	516.3	515.4	514.6
145°	534.0	533.5	533.0	532.4	533.0	533.5	534.0	534.4	534.3	533.6	533.0
147.5°	549.7	549.2	548.8	548.4	548.8	549.2	549.7	550.0	550.0	549.5	549.0
150°	559.6	559.0	558.5	558.1	558.5	559.0	559.6	560.1	560.0	559.4	558.8
152.5°	568.3	567.7	567.0	566.4	567.0	567.7	568.3	568.9	569.0	568.4	567.8
155°	580.2	579.5	578.7	577.8	578.7	579.5	580.2	581.0	581.2	580.6	580.0
157.5°	590.6	589.9	589.1	588.3	589.1	589.9	590.6	591.5	591.5	590.8	590.1
160°	596.6	595.9	595.1	594.4	595.1	595.9	596.6	597.3	597.3	596.7	596.1
162.5°	602.1	601.2	600.4	599.5	600.4	601.2	602.1	603.0	603.0	602.4	601.7
165°	609.2	608.5	607.8	607.0	607.8	608.5	609.2	609.8	609.8	609.2	608.5
167.5°	614.5	613.6	612.7	611.8	612.7	613.6	614.5	615.4	615.5	614.8	614.1
170°	617.3	616.5	615.6	614.7	615.6	616.5	617.3	618.3	618.4	617.7	617.0
172.5°	619.6	618.6	617.8	616.8	617.8	618.6	619.6	620.4	620.5	619.8	619.1
175°	621.7	620.7	619.7	618.7	619.7	620.7	621.7	622.8	622.8	622.2	621.5
177.5°	622.1	621.3	620.6	619.9	620.6	621.3	622.1	622.8	622.8	622.3	621.7
180°	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0



TEST NUMBER: P331294-935

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	804.0	806.8	811.2	815.8	818.6	824.1	825.6	828.2	830.5	835.9	841.5
5°	757.6	762.1	772.7	778.4	786.5	795.8	801.9	808.4	815.5	827.7	839.0
7.5°	707.8	715.3	728.5	739.3	750.8	764.1	773.8	786.5	797.0	814.2	830.8
10°	674.6	685.2	697.2	710.0	726.1	740.2	753.7	769.8	782.6	803.2	822.5
12.5°	644.8	646.4	663.4	677.6	699.6	717.0	732.6	753.3	765.9	790.4	810.7
15°	592.6	602.3	617.7	629.0	655.0	677.2	699.0	720.6	735.0	765.3	791.9
17.5°	548.7	557.6	573.4	591.9	610.5	632.6	660.9	683.6	703.3	737.8	769.4
20°	520.9	531.8	547.9	566.9	583.3	607.4	631.8	657.9	679.1	718.0	755.0
22.5°	497.2	505.8	518.8	537.5	555.5	577.6	604.3	632.7	655.0	696.9	734.4
25°	464.0	471.1	479.4	494.9	515.1	539.2	560.2	591.3	623.8	663.1	708.3
27.5°	434.0	439.0	446.4	460.0	475.7	498.3	521.5	551.0	583.8	626.3	674.2
30°	415.8	419.0	426.4	437.6	453.1	470.7	494.2	522.5	555.9	599.1	646.6
32.5°	399.8	402.8	407.6	418.4	431.7	446.9	468.0	496.3	528.1	570.5	623.2
35°	375.9	378.2	382.3	391.0	398.4	413.2	430.8	456.6	486.5	527.0	581.7
37.5°	352.1	355.1	357.7	361.4	370.8	380.6	396.0	417.7	447.0	487.9	540.0
40°	336.3	338.9	342.8	344.4	352.1	360.8	373.3	393.2	422.8	460.1	510.9
42.5°	320.4	323.0	325.3	327.2	333.8	341.5	352.8	369.9	396.1	432.4	482.7
45°	298.7	299.0	301.3	304.8	308.1	313.5	321.6	336.3	356.6	390.7	436.4
47.5°	276.7	277.1	277.5	279.1	282.6	287.5	292.8	304.9	323.0	350.3	394.7
50°	262.1	261.4	262.1	263.4	265.6	269.8	275.9	284.6	299.4	324.8	365.6
52.5°	247.9	247.8	247.4	247.9	249.7	252.5	256.8	264.2	277.5	300.8	336.8
55°	226.4	224.7	225.1	223.8	226.7	227.3	230.6	236.7	248.2	264.3	298.1
57.5°	203.4	202.1	200.6	200.3	200.0	201.7	204.3	209.1	218.0	232.1	259.5
60°	188.7	187.2	185.2	184.6	184.6	185.5	186.8	190.4	198.7	211.3	233.8
62.5°	173.8	171.9	170.8	169.1	168.6	169.6	170.9	173.4	179.4	191.2	210.6
65°	150.8	148.5	147.0	146.6	146.0	145.0	145.7	148.3	153.1	162.4	177.8
67.5°	127.7	125.6	125.2	123.4	122.4	122.6	122.4	124.7	127.5	135.5	147.1
70°	112.5	110.9	110.3	108.7	108.1	107.4	106.8	108.7	111.6	118.3	128.3
72.5°	97.1	95.7	94.4	93.0	93.2	92.5	92.4	93.5	95.9	102.1	109.8
75°	74.9	75.3	73.6	72.1	71.7	71.0	71.0	72.1	73.0	77.8	83.9
77.5°	54.3	54.1	52.7	52.2	51.9	51.2	51.9	52.5	53.0	56.3	60.8
80°	41.5	41.5	39.9	39.9	39.5	38.6	39.5	38.9	40.2	43.4	46.7
82.5°	29.6	29.1	29.1	28.6	28.5	27.8	28.2	28.8	29.4	31.6	33.5
85°	14.5	14.5	14.1	13.9	14.1	13.9	14.1	14.5	14.8	15.8	17.4
87.5°	5.0	5.2	5.3	5.3	5.2	5.3	5.3	5.3	5.7	5.7	5.8
90°	9.5	9.0	8.2	7.4	6.6	5.8	4.8	3.7	2.7	1.5	0.4
92.5°	10.7	10.4	10.0	9.6	9.2	8.9	8.7	8.8	8.9	9.0	9.0
95°	18.0	17.6	16.8	16.1	15.4	14.7	16.0	19.3	22.6	25.9	29.2
97.5°	23.8	23.4	21.9	20.2	18.6	17.0	20.8	30.1	39.4	48.6	57.9
100°	26.4	25.6	23.9	22.2	20.5	18.9	24.8	38.5	52.2	65.9	79.6
102.5°	27.4	26.3	40.6	54.8	69.0	83.1	91.7	94.5	97.5	100.4	103.2
105°	28.5	27.4	54.7	82.0	109.2	136.5	148.6	145.6	142.6	139.6	136.6
107.5°	37.3	38.4	71.0	103.8	136.5	169.1	184.3	181.8	179.4	177.0	174.6
110°	68.6	78.6	107.5	136.4	165.2	194.1	207.4	205.3	203.3	201.1	199.1



TEST NUMBER: P331294-935

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	161.9	198.4	205.4	212.6	219.7	226.9	229.5	227.6	225.8	223.9	222.1
115°	231.0	277.2	274.7	272.2	269.8	267.3	265.2	263.5	261.7	260.0	258.4
117.5°	295.9	307.0	305.4	303.7	302.0	300.2	298.4	296.5	294.6	292.7	290.8
120°	330.5	329.3	327.5	325.8	324.0	322.2	320.6	319.0	317.5	316.0	314.5
122.5°	351.3	350.6	348.6	346.6	344.7	342.8	341.0	339.4	337.9	336.2	334.7
125°	380.4	379.7	377.8	375.9	374.0	372.1	370.5	369.2	367.9	366.6	365.3
127.5°	406.9	406.0	404.5	403.1	401.7	400.3	398.8	397.4	396.0	394.5	393.0
130°	424.0	422.8	421.7	420.6	419.6	418.4	417.1	415.5	413.9	412.2	410.7
132.5°	440.7	439.7	438.6	437.6	436.4	435.3	434.1	432.7	431.4	430.0	428.7
135°	464.3	463.2	462.4	461.5	460.5	459.7	458.4	456.8	455.2	453.7	452.0
137.5°	486.3	485.3	484.2	483.3	482.2	481.2	480.1	479.0	477.9	476.7	475.7
140°	500.6	499.6	498.5	497.5	496.4	495.2	494.3	493.5	492.8	491.9	491.1
142.5°	513.8	513.0	511.7	510.4	509.2	507.9	507.0	506.2	505.5	504.8	504.0
145°	532.3	531.6	529.9	528.1	526.5	524.8	524.0	524.1	524.2	524.3	524.3
147.5°	548.5	547.9	546.2	544.6	542.9	541.2	540.5	541.0	541.3	541.7	542.1
150°	558.2	557.6	556.0	554.4	552.8	551.2	550.8	551.5	552.2	552.8	553.5
152.5°	567.2	566.6	565.1	563.6	562.1	560.5	560.2	560.9	561.7	562.5	563.3
155°	579.4	578.8	577.6	576.4	575.1	573.9	573.8	574.7	575.6	576.5	577.4
157.5°	589.4	588.8	588.0	587.1	586.3	585.5	585.4	586.2	586.9	587.7	588.4
160°	595.6	595.0	594.3	593.7	593.1	592.5	592.5	593.1	593.7	594.3	595.0
162.5°	601.0	600.3	599.8	599.3	598.7	598.2	598.3	598.8	599.4	600.0	600.6
165°	607.8	607.0	606.7	606.4	606.1	605.9	606.0	606.6	607.2	607.8	608.4
167.5°	613.4	612.7	612.4	612.2	611.8	611.6	611.7	612.3	612.9	613.5	614.2
170°	616.3	615.6	615.4	615.2	615.0	614.8	615.0	615.6	616.2	616.8	617.3
172.5°	618.5	617.8	617.5	617.3	617.2	616.9	617.2	617.8	618.4	619.0	619.6
175°	620.8	620.1	619.8	619.7	619.5	619.3	619.5	620.3	621.0	621.6	622.3
177.5°	621.2	620.6	620.5	620.4	620.4	620.3	620.5	621.1	621.6	622.2	622.8
180°	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0



TEST NUMBER: P331294-935

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	841.0	842.3	846.4	850.6	855.1	856.4	858.5	856.7	856.2	861.1	864.7
5°	843.4	849.2	860.5	870.7	879.4	885.5	892.0	894.6	899.4	906.1	914.5
7.5°	840.7	852.0	869.7	884.7	901.0	912.7	922.0	929.8	939.3	952.1	966.0
10°	837.7	852.7	874.3	892.6	912.6	927.6	940.2	952.4	966.6	984.3	1002.5
12.5°	832.0	849.9	876.8	898.5	924.1	939.0	955.9	982.2	997.5	1022.1	1047.8
15°	820.6	840.5	878.1	904.8	933.8	962.1	993.2	1018.3	1043.4	1057.9	1094.2
17.5°	803.7	832.9	874.6	905.8	942.5	987.1	1022.1	1050.6	1079.5	1102.9	1121.2
20°	790.1	821.9	869.4	906.8	950.5	998.4	1038.6	1067.6	1092.6	1112.2	1123.5
22.5°	772.8	812.9	859.2	902.9	958.7	1006.2	1048.4	1071.2	1092.1	1101.6	1106.0
25°	745.6	793.9	846.3	899.7	962.7	1012.9	1051.5	1065.3	1071.4	1062.0	1046.6
27.5°	716.4	770.2	831.5	893.6	960.3	1008.5	1036.1	1034.0	1023.6	993.4	969.3
30°	694.6	753.7	819.6	887.4	954.3	1001.3	1017.4	1001.3	977.8	944.1	909.6
32.5°	671.7	732.9	807.0	878.7	943.6	984.8	988.3	960.6	924.3	886.0	843.0
35°	637.0	703.3	783.3	859.2	920.6	946.7	931.2	882.4	839.2	786.9	728.3
37.5°	597.8	671.0	751.2	830.5	886.2	893.0	854.7	803.2	742.4	680.9	612.0
40°	568.5	646.0	728.7	808.7	857.9	850.8	801.9	745.4	673.0	597.8	533.7
42.5°	542.3	619.7	704.0	782.5	821.9	802.5	745.4	675.9	598.1	527.3	468.7
45°	496.8	576.5	662.7	738.6	761.1	726.1	650.5	573.3	496.8	437.6	391.3
47.5°	452.7	531.5	616.8	683.5	691.6	644.4	561.8	482.4	416.6	368.4	335.8
50°	420.3	499.4	583.9	643.4	640.8	583.9	499.0	423.4	368.5	329.6	307.7
52.5°	391.2	465.9	547.2	601.2	587.6	525.6	444.5	377.5	332.3	301.8	282.0
55°	345.9	415.1	492.3	535.7	510.7	441.8	373.3	319.3	285.9	263.0	247.6
57.5°	301.1	365.9	432.0	458.7	431.0	367.5	310.4	271.2	246.1	229.1	219.1
60°	273.3	329.9	388.7	411.9	378.8	322.2	277.2	242.1	221.9	208.0	199.1
62.5°	245.6	296.2	351.7	364.3	334.0	286.2	246.3	217.1	200.5	188.2	179.8
65°	207.8	249.2	291.4	299.7	271.7	234.7	203.2	184.3	169.4	160.5	153.7
67.5°	170.4	203.6	233.5	240.2	215.8	190.1	167.3	150.8	140.8	133.3	127.6
70°	148.3	174.6	199.1	204.5	184.9	162.0	144.7	131.5	122.5	116.1	110.6
72.5°	124.8	146.8	167.1	170.8	154.8	137.3	123.1	112.7	104.8	100.7	95.4
75°	95.5	108.4	124.2	125.1	114.5	103.8	92.9	86.2	82.0	76.9	74.3
77.5°	67.4	77.5	86.5	88.3	82.0	74.7	68.6	63.3	59.8	57.3	55.0
80°	51.5	59.5	63.4	65.6	61.1	56.0	52.4	48.9	46.7	45.0	43.4
82.5°	36.8	41.8	45.4	47.1	44.6	41.6	38.0	36.0	34.3	32.9	32.4
85°	18.7	20.9	23.2	23.8	23.2	21.9	20.0	20.0	18.9	18.7	18.7
87.5°	6.7	8.0	8.2	9.2	8.9	9.0	9.2	9.1	9.0	8.9	8.7
90°	1.5	2.7	3.7	4.8	5.8	6.6	7.4	8.2	9.0	9.5	10.0
92.5°	9.0	8.9	8.8	8.7	8.9	9.2	9.6	10.0	10.4	10.7	10.9
95°	25.9	22.6	19.3	16.0	14.7	15.4	16.1	16.8	17.6	18.0	18.5
97.5°	48.6	39.4	30.1	20.8	17.0	18.6	20.2	21.9	23.4	23.8	24.3
100°	65.9	52.2	38.5	24.8	18.9	20.5	22.2	23.9	25.6	26.4	27.2
102.5°	100.4	97.5	94.5	91.7	83.1	69.0	54.8	40.6	26.3	27.4	28.4
105°	139.6	142.6	145.6	148.6	136.5	109.2	82.0	54.7	27.4	28.5	29.6
107.5°	177.0	179.4	181.8	184.3	169.1	136.5	103.8	71.0	38.4	37.3	36.2
110°	201.1	203.3	205.3	207.4	194.1	165.2	136.4	107.5	78.6	68.6	58.6



TEST NUMBER: P331294-935

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	223.9	225.8	227.6	229.5	226.9	219.7	212.6	205.4	198.4	161.9	125.4
115°	260.0	261.7	263.5	265.2	267.3	269.8	272.2	274.7	277.2	231.0	184.8
117.5°	292.7	294.6	296.5	298.4	300.2	302.0	303.7	305.4	307.0	295.9	284.7
120°	316.0	317.5	319.0	320.6	322.2	324.0	325.8	327.5	329.3	330.5	331.7
122.5°	336.2	337.9	339.4	341.0	342.8	344.7	346.6	348.6	350.6	351.3	352.0
125°	366.6	367.9	369.2	370.5	372.1	374.0	375.9	377.8	379.7	380.4	381.1
127.5°	394.5	396.0	397.4	398.8	400.3	401.7	403.1	404.5	406.0	406.9	407.9
130°	412.2	413.9	415.5	417.1	418.4	419.6	420.6	421.7	422.8	424.0	425.0
132.5°	430.0	431.4	432.7	434.1	435.3	436.4	437.6	438.6	439.7	440.7	441.6
135°	453.7	455.2	456.8	458.4	459.7	460.5	461.5	462.4	463.2	464.3	465.3
137.5°	476.7	477.9	479.0	480.1	481.2	482.2	483.3	484.2	485.3	486.3	487.2
140°	491.9	492.8	493.5	494.3	495.2	496.4	497.5	498.5	499.6	500.6	501.4
142.5°	504.8	505.5	506.2	507.0	507.9	509.2	510.4	511.7	513.0	513.8	514.6
145°	524.3	524.2	524.1	524.0	524.8	526.5	528.1	529.9	531.6	532.3	533.0
147.5°	541.7	541.3	541.0	540.5	541.2	542.9	544.6	546.2	547.9	548.5	549.0
150°	552.8	552.2	551.5	550.8	551.2	552.8	554.4	556.0	557.6	558.2	558.8
152.5°	562.5	561.7	560.9	560.2	560.5	562.1	563.6	565.1	566.6	567.2	567.8
155°	576.5	575.6	574.7	573.8	573.9	575.1	576.4	577.6	578.8	579.4	580.0
157.5°	587.7	586.9	586.2	585.4	585.5	586.3	587.1	588.0	588.8	589.4	590.1
160°	594.3	593.7	593.1	592.5	592.5	593.1	593.7	594.3	595.0	595.6	596.1
162.5°	600.0	599.4	598.8	598.3	598.2	598.7	599.3	599.8	600.3	601.0	601.7
165°	607.8	607.2	606.6	606.0	605.9	606.1	606.4	606.7	607.0	607.8	608.5
167.5°	613.5	612.9	612.3	611.7	611.6	611.8	612.2	612.4	612.7	613.4	614.1
170°	616.8	616.2	615.6	615.0	614.8	615.0	615.2	615.4	615.6	616.3	617.0
172.5°	619.0	618.4	617.8	617.2	616.9	617.2	617.3	617.5	617.8	618.5	619.1
175°	621.6	621.0	620.3	619.5	619.3	619.5	619.7	619.8	620.1	620.8	621.5
177.5°	622.2	621.6	621.1	620.5	620.3	620.4	620.4	620.5	620.6	621.2	621.7
180°	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	867.8	871.4	871.4	871.9	876.0	875.6	875.3
5°	923.5	928.9	929.6	935.4	939.3	938.0	934.4
7.5°	976.0	986.2	993.9	998.2	1003.3	1006.4	1005.0
10°	1017.7	1032.5	1041.5	1047.6	1055.0	1060.5	1058.5
12.5°	1055.5	1073.2	1085.5	1096.0	1096.9	1104.0	1099.2
15°	1114.5	1133.2	1135.1	1142.8	1148.9	1148.2	1148.6
17.5°	1133.9	1140.0	1141.2	1141.3	1141.4	1139.2	1134.3
20°	1127.0	1124.8	1119.3	1115.2	1107.8	1106.7	1100.4
22.5°	1094.1	1086.9	1073.2	1064.2	1052.7	1049.6	1047.8
25°	1029.2	1013.5	991.6	970.8	964.9	953.7	956.9
27.5°	940.3	915.8	892.1	875.1	859.8	842.9	847.7
30°	877.8	850.2	816.7	791.0	774.6	758.5	755.6
32.5°	803.2	762.7	725.4	702.7	677.6	667.4	656.3
35°	674.6	635.1	598.1	566.3	547.9	533.7	520.9
37.5°	558.9	513.4	483.5	457.8	444.5	436.4	438.4
40°	487.2	447.3	425.4	405.8	393.6	387.8	389.1
42.5°	429.0	399.2	381.2	367.7	359.1	355.9	355.1
45°	363.0	346.3	331.5	323.8	319.6	316.1	313.8
47.5°	318.1	304.4	296.0	291.4	287.7	284.2	284.1
50°	291.0	282.0	276.2	271.4	268.5	265.9	268.2
52.5°	270.4	262.2	256.4	252.1	251.0	248.7	248.7
55°	239.9	233.4	229.3	225.4	223.5	222.2	220.6
57.5°	212.1	206.0	202.2	199.7	196.0	194.8	194.2
60°	192.3	187.4	183.6	180.4	178.7	176.2	176.2
62.5°	174.0	169.2	165.6	163.2	160.5	159.5	159.7
65°	147.6	143.7	140.2	137.6	137.0	135.1	135.7
67.5°	123.3	120.7	117.0	115.5	114.3	113.3	112.5
70°	107.1	104.5	102.5	100.7	99.7	99.7	99.7
72.5°	93.4	90.3	89.2	86.8	87.3	86.3	85.2
75°	72.3	70.4	69.5	68.4	66.9	66.9	66.9
77.5°	53.2	52.7	51.5	50.5	50.1	49.8	49.9
80°	41.2	40.8	40.2	40.2	39.5	39.3	38.6
82.5°	31.6	30.8	30.4	30.1	30.0	30.0	29.9
85°	18.0	17.4	17.4	17.7	17.0	17.0	17.4
87.5°	9.0	9.1	9.0	9.0	9.3	9.0	9.1
90°	10.5	11.0	11.4	11.5	11.7	12.0	12.1
92.5°	11.2	11.5	11.6	11.8	11.9	12.1	12.1
95°	19.0	19.5	19.7	19.6	19.5	19.5	19.3
97.5°	24.6	25.1	25.3	25.4	25.6	25.7	25.8
100°	28.0	28.8	29.3	29.5	29.7	29.9	30.1
102.5°	29.4	30.5	31.2	31.4	31.7	31.9	32.3
105°	30.7	31.8	32.5	33.0	33.3	33.8	34.2
107.5°	35.0	33.9	33.6	33.9	34.4	34.7	35.1
110°	48.6	38.7	33.9	34.3	34.7	35.1	35.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	89.0	52.6	34.6	34.9	35.2	35.6	35.8
115°	138.5	92.3	65.6	58.4	51.2	44.0	36.9
117.5°	273.5	262.3	245.0	221.3	197.7	174.1	150.4
120°	332.9	334.2	328.0	314.5	301.1	287.6	274.1
122.5°	352.8	353.4	352.5	349.9	347.2	344.7	342.0
125°	381.8	382.5	383.0	383.3	383.6	383.9	384.2
127.5°	409.0	410.0	410.5	410.6	410.7	410.7	410.8
130°	426.1	427.2	427.7	427.6	427.5	427.4	427.3
132.5°	442.6	443.5	443.8	443.8	443.7	443.6	443.5
135°	466.2	467.3	467.7	467.4	467.3	467.1	466.8
137.5°	488.2	489.2	489.5	489.1	488.8	488.5	488.2
140°	502.3	503.3	503.4	502.9	502.5	502.0	501.4
142.5°	515.4	516.3	516.4	515.9	515.4	514.9	514.4
145°	533.6	534.3	534.4	534.0	533.5	533.0	532.4
147.5°	549.5	550.0	550.0	549.7	549.2	548.8	548.4
150°	559.4	560.0	560.1	559.6	559.0	558.5	558.1
152.5°	568.4	569.0	568.9	568.3	567.7	567.0	566.4
155°	580.6	581.2	581.0	580.2	579.5	578.7	577.8
157.5°	590.8	591.5	591.5	590.6	589.9	589.1	588.3
160°	596.7	597.3	597.3	596.6	595.9	595.1	594.4
162.5°	602.4	603.0	603.0	602.1	601.2	600.4	599.5
165°	609.2	609.8	609.8	609.2	608.5	607.8	607.0
167.5°	614.8	615.5	615.4	614.5	613.6	612.7	611.8
170°	617.7	618.4	618.3	617.3	616.5	615.6	614.7
172.5°	619.8	620.5	620.4	619.6	618.6	617.8	616.8
175°	622.2	622.8	622.8	621.7	620.7	619.7	618.7
177.5°	622.3	622.8	622.8	622.1	621.3	620.6	619.9
180°	621.0	621.0	621.0	621.0	621.0	621.0	621.0

(END OF REPORT)