

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: P331507-930

Luminaire Tested: **S122DIW-S485D970U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331507-930
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: S122DIW-S485D970U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4905.7 lumens
Efficiency: N/A
Efficacy: 108.5 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-Indirect

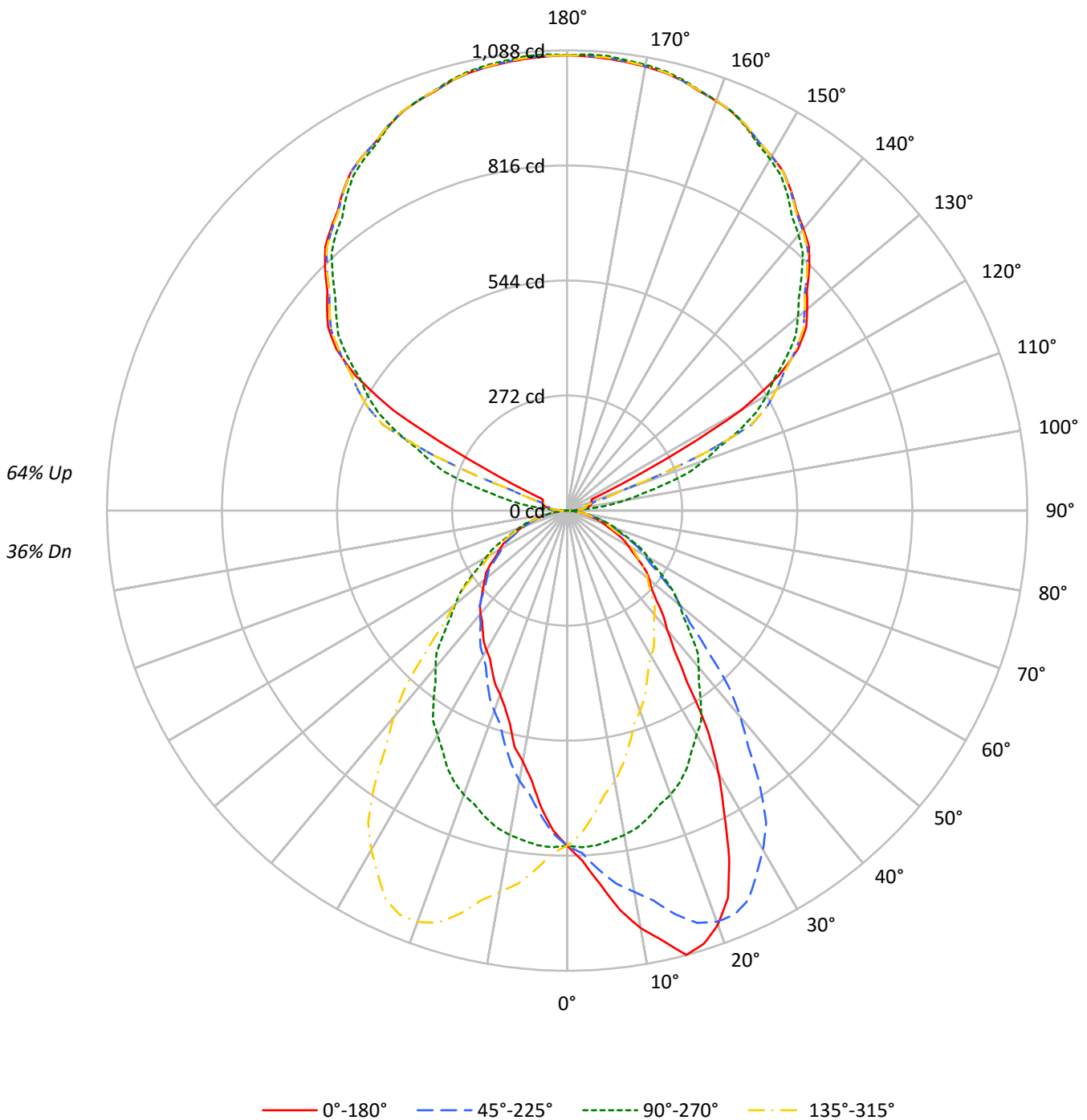
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36
1	95	91	87	84	86	82	79	76	66	64	62	52	51	49	38	38	37	31
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	28	26	24	20
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17
6	61	50	42	37	56	46	39	34	38	32	29	30	26	24	23	20	19	15
7	57	45	37	32	51	41	35	30	34	29	25	27	24	21	21	18	17	14
8	53	41	34	28	48	38	31	26	31	26	23	25	21	19	19	17	15	12
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	18	15	14	11
10	46	34	27	23	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.5
10°-20°	219.3	4.5
20°-30°	318.3	6.5
30°-40°	335.9	6.8
40°-50°	297.4	6.1
50°-60°	237.4	4.8
60°-70°	161.3	3.3
70°-80°	82.7	1.7
80°-90°	22.6	0.5
90°-100°	35.9	0.7
100°-110°	131.7	2.7
110°-120°	352.0	7.2
120°-130°	581.1	11.8
130°-140°	618.0	12.6
140°-150°	574.4	11.7
150°-160°	461.8	9.4
160°-170°	297.6	6.1
170°-180°	102.4	2.1
0°-30°	613.1	12.5
0°-40°	949.1	19.3
0°-60°	1483.9	30.2
0°-90°	1750.5	35.7
90°-120°	519.7	10.6
90°-150°	2293.2	46.7
90°-180°	3155.0	64.3
0°-180°	4905.7	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	19
90°	21	1	21	1	21	10
95°	34	51	34	51	34	31
105°	59	237	59	237	59	62
115°	64	448	64	448	64	160
125°	666	633	666	633	666	576
135°	809	784	809	784	809	624
145°	923	909	923	909	923	577
155°	1002	1001	1002	1001	1002	462
165°	1052	1055	1052	1055	1052	297
175°	1073	1079	1073	1079	1073	102
180°	1077	1077	1077	1077	1077	



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

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°	10.5	10.4	10.7	10.4	10.3	10.4	10.2	9.8	9.9	9.9	9.9
90°	21.0	20.7	20.3	20.0	19.6	19.1	18.2	17.3	16.5	15.6	14.2
92.5°	21.0	20.8	20.6	20.4	20.2	19.9	19.4	19.0	18.5	18.1	17.4
95°	33.5	33.7	33.8	34.0	34.2	33.8	33.0	32.1	31.2	30.4	29.2
97.5°	44.7	44.5	44.3	44.1	43.9	43.5	42.7	42.1	41.3	40.7	37.8
100°	52.2	51.9	51.5	51.1	50.8	50.0	48.6	47.2	45.8	44.4	41.5
102.5°	55.9	55.4	55.0	54.5	54.0	52.8	51.0	49.2	47.5	45.7	40.3
105°	59.2	58.5	57.8	57.2	56.4	55.1	53.2	51.4	49.4	47.5	44.8
107.5°	60.9	60.3	59.5	58.9	58.1	58.8	60.7	62.6	64.6	66.5	123.2
110°	61.6	60.8	60.2	59.4	58.8	67.1	84.4	101.7	119.0	136.3	186.4



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	62.2	61.6	61.1	60.5	59.9	91.2	154.4	217.5	280.7	343.9	356.2
115°	63.9	76.3	88.8	101.3	113.7	160.0	240.2	320.3	400.5	480.7	476.4
117.5°	260.8	301.8	342.8	383.7	424.7	454.9	474.3	493.6	513.0	532.4	529.5
120°	475.2	498.6	522.0	545.4	568.7	579.4	577.2	575.2	573.2	571.0	567.9
122.5°	593.0	597.5	602.1	606.6	611.1	612.8	611.6	610.3	609.0	607.8	604.4
125°	666.1	665.5	665.0	664.6	664.0	663.2	661.9	660.7	659.5	658.3	655.0
127.5°	712.2	712.1	712.0	711.9	711.8	710.9	709.1	707.4	705.6	703.8	701.3
130°	740.9	741.0	741.2	741.4	741.6	740.7	738.8	736.9	735.0	733.1	731.2
132.5°	768.9	769.1	769.2	769.4	769.6	768.9	767.3	765.6	764.0	762.4	760.4
135°	809.4	809.8	810.1	810.5	810.8	810.1	808.4	806.7	804.9	803.2	801.6
137.5°	846.4	846.9	847.5	848.2	848.7	848.2	846.4	844.7	843.1	841.4	839.6
140°	869.4	870.3	871.1	872.0	872.9	872.5	871.0	869.4	867.9	866.3	864.4
142.5°	891.9	892.8	893.6	894.5	895.3	895.0	893.6	892.2	890.8	889.3	887.2
145°	923.2	924.1	924.9	925.8	926.7	926.4	925.3	924.1	922.8	921.6	918.7
147.5°	950.7	951.5	952.2	952.9	953.7	953.6	952.7	951.8	950.9	950.0	947.1
150°	967.6	968.4	969.3	970.2	971.0	970.9	969.9	968.9	967.8	966.8	964.0
152.5°	981.9	983.1	984.2	985.4	986.5	986.5	985.5	984.5	983.4	982.4	979.7
155°	1001.8	1003.2	1004.6	1006.0	1007.4	1007.5	1006.5	1005.5	1004.4	1003.4	1001.4
157.5°	1020.1	1021.4	1022.8	1024.1	1025.5	1025.6	1024.4	1023.2	1022.1	1020.8	1019.4
160°	1030.7	1031.9	1033.1	1034.3	1035.5	1035.6	1034.5	1033.6	1032.5	1031.4	1030.5
162.5°	1039.4	1040.9	1042.4	1043.8	1045.4	1045.5	1044.3	1043.2	1042.0	1040.8	1039.9
165°	1052.5	1053.7	1054.9	1056.1	1057.4	1057.4	1056.1	1054.9	1053.7	1052.5	1052.0
167.5°	1060.8	1062.3	1063.9	1065.4	1067.0	1067.1	1065.9	1064.7	1063.5	1062.3	1061.8
170°	1065.8	1067.3	1068.9	1070.4	1072.0	1072.1	1070.9	1069.8	1068.5	1067.3	1067.0
172.5°	1069.5	1071.1	1072.6	1074.2	1075.7	1075.9	1074.6	1073.4	1072.3	1071.1	1070.7
175°	1072.8	1074.5	1076.2	1077.9	1079.7	1079.9	1078.7	1077.5	1076.3	1075.1	1074.7
177.5°	1074.8	1076.0	1077.3	1078.5	1079.8	1079.9	1078.9	1078.0	1077.0	1076.0	1075.9
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

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°	9.9	9.6	9.3	9.5	8.4	8.0	6.6	5.5	5.6	5.8	5.7
90°	12.8	11.4	10.0	8.4	6.5	4.6	2.7	0.8	2.7	4.6	6.5
92.5°	16.7	16.0	15.3	15.1	15.2	15.4	15.6	15.7	15.6	15.4	15.2
95°	28.0	26.7	25.5	27.8	33.5	39.2	44.9	50.6	44.9	39.2	33.5
97.5°	35.1	32.3	29.4	36.1	52.2	68.3	84.4	100.5	84.4	68.3	52.2
100°	38.5	35.5	32.6	43.0	66.8	90.4	114.1	137.9	114.1	90.4	66.8
102.5°	94.9	119.5	144.1	158.9	164.0	169.0	174.0	179.0	174.0	169.0	164.0
105°	142.0	189.3	236.6	257.6	252.4	247.2	242.1	236.8	242.1	247.2	252.4
107.5°	179.9	236.6	293.3	319.5	315.3	311.1	307.0	302.7	307.0	311.1	315.3
110°	236.4	286.4	336.5	359.6	356.0	352.4	348.8	345.1	348.8	352.4	356.0



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	368.6	381.0	393.3	397.9	394.7	391.4	388.2	385.0	388.2	391.4	394.7
115°	472.0	467.7	463.3	459.7	456.8	453.9	450.9	447.9	450.9	453.9	456.8
117.5°	526.4	523.5	520.5	517.4	514.0	510.8	507.5	504.2	507.5	510.8	514.0
120°	564.8	561.7	558.6	555.7	553.1	550.5	548.0	545.4	548.0	550.5	553.1
122.5°	601.0	597.6	594.3	591.2	588.4	585.7	582.9	580.2	582.9	585.7	588.4
125°	651.8	648.4	645.1	642.4	640.1	637.9	635.6	633.3	635.6	637.9	640.1
127.5°	698.9	696.4	694.0	691.5	689.0	686.5	684.0	681.5	684.0	686.5	689.0
130°	729.3	727.3	725.5	723.1	720.3	717.6	714.9	712.1	714.9	717.6	720.3
132.5°	758.6	756.7	754.7	752.6	750.2	748.0	745.6	743.2	745.6	748.0	750.2
135°	800.1	798.5	797.0	794.8	792.1	789.3	786.5	783.7	786.5	789.3	792.1
137.5°	837.8	836.1	834.3	832.4	830.5	828.6	826.6	824.7	826.6	828.6	830.5
140°	862.5	860.5	858.7	857.0	855.7	854.3	852.9	851.5	852.9	854.3	855.7
142.5°	885.0	882.8	880.6	878.9	877.7	876.4	875.1	873.9	875.1	876.4	877.7
145°	915.7	912.8	909.9	908.5	908.7	908.8	909.0	909.1	909.0	908.8	908.7
147.5°	944.1	941.3	938.3	937.2	937.8	938.5	939.1	939.9	939.1	938.5	937.8
150°	961.2	958.5	955.7	955.0	956.2	957.3	958.5	959.8	958.5	957.3	956.2
152.5°	977.1	974.4	971.8	971.2	972.6	973.9	975.3	976.6	975.3	973.9	972.6
155°	999.2	997.2	995.1	994.8	996.4	997.9	999.5	1001.1	999.5	997.9	996.4
157.5°	1018.0	1016.5	1015.0	1015.0	1016.3	1017.6	1019.0	1020.3	1019.0	1017.6	1016.3
160°	1029.4	1028.3	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4	1030.5	1029.4	1028.3
162.5°	1039.0	1038.1	1037.2	1037.3	1038.3	1039.3	1040.4	1041.5	1040.4	1039.3	1038.3
165°	1051.4	1050.9	1050.4	1050.7	1051.7	1052.7	1053.8	1054.8	1053.8	1052.7	1051.7
167.5°	1061.4	1060.9	1060.4	1060.6	1061.7	1062.7	1063.7	1064.8	1063.7	1062.7	1061.7
170°	1066.6	1066.2	1065.9	1066.2	1067.3	1068.4	1069.3	1070.4	1069.3	1068.4	1067.3
172.5°	1070.3	1070.0	1069.7	1070.0	1071.1	1072.0	1073.1	1074.2	1073.1	1072.0	1071.1
175°	1074.4	1074.1	1073.7	1074.2	1075.4	1076.5	1077.7	1079.0	1077.7	1076.5	1075.4
177.5°	1075.7	1075.6	1075.5	1075.9	1076.8	1077.8	1078.8	1079.8	1078.8	1077.8	1076.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

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°	5.8	5.9	6.0	6.2	6.3	6.3	6.2	6.4	6.5	6.3	6.4
90°	8.4	10.0	11.4	12.8	14.2	15.6	16.5	17.3	18.2	19.1	19.6
92.5°	15.1	15.3	16.0	16.7	17.4	18.1	18.5	19.0	19.4	19.9	20.2
95°	27.8	25.5	26.7	28.0	29.2	30.4	31.2	32.1	33.0	33.8	34.2
97.5°	36.1	29.4	32.3	35.1	37.8	40.7	41.3	42.1	42.7	43.5	43.9
100°	43.0	32.6	35.5	38.5	41.5	44.4	45.8	47.2	48.6	50.0	50.8
102.5°	158.9	144.1	119.5	94.9	70.3	45.7	47.5	49.2	51.0	52.8	54.0
105°	257.6	236.6	189.3	142.0	94.8	47.5	49.4	51.4	53.2	55.1	56.4
107.5°	319.5	293.3	236.6	179.9	123.2	66.5	64.6	62.6	60.7	58.8	58.1
110°	359.6	336.5	286.4	236.4	186.4	136.3	119.0	101.7	84.4	67.1	58.8



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	397.9	393.3	381.0	368.6	356.2	343.9	280.7	217.5	154.4	91.2	59.9
115°	459.7	463.3	467.7	472.0	476.4	480.7	400.5	320.3	240.2	160.0	113.7
117.5°	517.4	520.5	523.5	526.4	529.5	532.4	513.0	493.6	474.3	454.9	424.7
120°	555.7	558.6	561.7	564.8	567.9	571.0	573.2	575.2	577.2	579.4	568.7
122.5°	591.2	594.3	597.6	601.0	604.4	607.8	609.0	610.3	611.6	612.8	611.1
125°	642.4	645.1	648.4	651.8	655.0	658.3	659.5	660.7	661.9	663.2	664.0
127.5°	691.5	694.0	696.4	698.9	701.3	703.8	705.6	707.4	709.1	710.9	711.8
130°	723.1	725.5	727.3	729.3	731.2	733.1	735.0	736.9	738.8	740.7	741.6
132.5°	752.6	754.7	756.7	758.6	760.4	762.4	764.0	765.6	767.3	768.9	769.6
135°	794.8	797.0	798.5	800.1	801.6	803.2	804.9	806.7	808.4	810.1	810.8
137.5°	832.4	834.3	836.1	837.8	839.6	841.4	843.1	844.7	846.4	848.2	848.7
140°	857.0	858.7	860.5	862.5	864.4	866.3	867.9	869.4	871.0	872.5	872.9
142.5°	878.9	880.6	882.8	885.0	887.2	889.3	890.8	892.2	893.6	895.0	895.3
145°	908.5	909.9	912.8	915.7	918.7	921.6	922.8	924.1	925.3	926.4	926.7
147.5°	937.2	938.3	941.3	944.1	947.1	950.0	950.9	951.8	952.7	953.6	953.7
150°	955.0	955.7	958.5	961.2	964.0	966.8	967.8	968.9	969.9	970.9	971.0
152.5°	971.2	971.8	974.4	977.1	979.7	982.4	983.4	984.5	985.5	986.5	986.5
155°	994.8	995.1	997.2	999.2	1001.4	1003.4	1004.4	1005.5	1006.5	1007.5	1007.4
157.5°	1015.0	1015.0	1016.5	1018.0	1019.4	1020.8	1022.1	1023.2	1024.4	1025.6	1025.5
160°	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4	1032.5	1033.6	1034.5	1035.6	1035.5
162.5°	1037.3	1037.2	1038.1	1039.0	1039.9	1040.8	1042.0	1043.2	1044.3	1045.5	1045.4
165°	1050.7	1050.4	1050.9	1051.4	1052.0	1052.5	1053.7	1054.9	1056.1	1057.4	1057.4
167.5°	1060.6	1060.4	1060.9	1061.4	1061.8	1062.3	1063.5	1064.7	1065.9	1067.1	1067.0
170°	1066.2	1065.9	1066.2	1066.6	1067.0	1067.3	1068.5	1069.8	1070.9	1072.1	1072.0
172.5°	1070.0	1069.7	1070.0	1070.3	1070.7	1071.1	1072.3	1073.4	1074.6	1075.9	1075.7
175°	1074.2	1073.7	1074.1	1074.4	1074.7	1075.1	1076.3	1077.5	1078.7	1079.9	1079.7
177.5°	1075.9	1075.5	1075.6	1075.7	1075.9	1076.0	1077.0	1078.0	1078.9	1079.9	1079.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

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°	6.4	6.3	6.4	6.2	6.4	6.3	6.4	6.4	6.3	6.5	6.4
90°	20.0	20.3	20.7	21.0	20.7	20.3	20.0	19.6	19.1	18.2	17.3
92.5°	20.4	20.6	20.8	21.0	20.8	20.6	20.4	20.2	19.9	19.4	19.0
95°	34.0	33.8	33.7	33.5	33.7	33.8	34.0	34.2	33.8	33.0	32.1
97.5°	44.1	44.3	44.5	44.7	44.5	44.3	44.1	43.9	43.5	42.7	42.1
100°	51.1	51.5	51.9	52.2	51.9	51.5	51.1	50.8	50.0	48.6	47.2
102.5°	54.5	55.0	55.4	55.9	55.4	55.0	54.5	54.0	52.8	51.0	49.2
105°	57.2	57.8	58.5	59.2	58.5	57.8	57.2	56.4	55.1	53.2	51.4
107.5°	58.9	59.5	60.3	60.9	60.3	59.5	58.9	58.1	58.8	60.7	62.6
110°	59.4	60.2	60.8	61.6	60.8	60.2	59.4	58.8	67.1	84.4	101.7



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	60.5	61.1	61.6	62.2	61.6	61.1	60.5	59.9	91.2	154.4	217.5
115°	101.3	88.8	76.3	63.9	76.3	88.8	101.3	113.7	160.0	240.2	320.3
117.5°	383.7	342.8	301.8	260.8	301.8	342.8	383.7	424.7	454.9	474.3	493.6
120°	545.4	522.0	498.6	475.2	498.6	522.0	545.4	568.7	579.4	577.2	575.2
122.5°	606.6	602.1	597.5	593.0	597.5	602.1	606.6	611.1	612.8	611.6	610.3
125°	664.6	665.0	665.5	666.1	665.5	665.0	664.6	664.0	663.2	661.9	660.7
127.5°	711.9	712.0	712.1	712.2	712.1	712.0	711.9	711.8	710.9	709.1	707.4
130°	741.4	741.2	741.0	740.9	741.0	741.2	741.4	741.6	740.7	738.8	736.9
132.5°	769.4	769.2	769.1	768.9	769.1	769.2	769.4	769.6	768.9	767.3	765.6
135°	810.5	810.1	809.8	809.4	809.8	810.1	810.5	810.8	810.1	808.4	806.7
137.5°	848.2	847.5	846.9	846.4	846.9	847.5	848.2	848.7	848.2	846.4	844.7
140°	872.0	871.1	870.3	869.4	870.3	871.1	872.0	872.9	872.5	871.0	869.4
142.5°	894.5	893.6	892.8	891.9	892.8	893.6	894.5	895.3	895.0	893.6	892.2
145°	925.8	924.9	924.1	923.2	924.1	924.9	925.8	926.7	926.4	925.3	924.1
147.5°	952.9	952.2	951.5	950.7	951.5	952.2	952.9	953.7	953.6	952.7	951.8
150°	970.2	969.3	968.4	967.6	968.4	969.3	970.2	971.0	970.9	969.9	968.9
152.5°	985.4	984.2	983.1	981.9	983.1	984.2	985.4	986.5	986.5	985.5	984.5
155°	1006.0	1004.6	1003.2	1001.8	1003.2	1004.6	1006.0	1007.4	1007.5	1006.5	1005.5
157.5°	1024.1	1022.8	1021.4	1020.1	1021.4	1022.8	1024.1	1025.5	1025.6	1024.4	1023.2
160°	1034.3	1033.1	1031.9	1030.7	1031.9	1033.1	1034.3	1035.5	1035.6	1034.5	1033.6
162.5°	1043.8	1042.4	1040.9	1039.4	1040.9	1042.4	1043.8	1045.4	1045.5	1044.3	1043.2
165°	1056.1	1054.9	1053.7	1052.5	1053.7	1054.9	1056.1	1057.4	1057.4	1056.1	1054.9
167.5°	1065.4	1063.9	1062.3	1060.8	1062.3	1063.9	1065.4	1067.0	1067.1	1065.9	1064.7
170°	1070.4	1068.9	1067.3	1065.8	1067.3	1068.9	1070.4	1072.0	1072.1	1070.9	1069.8
172.5°	1074.2	1072.6	1071.1	1069.5	1071.1	1072.6	1074.2	1075.7	1075.9	1074.6	1073.4
175°	1077.9	1076.2	1074.5	1072.8	1074.5	1076.2	1077.9	1079.7	1079.9	1078.7	1077.5
177.5°	1078.5	1077.3	1076.0	1074.8	1076.0	1077.3	1078.5	1079.8	1079.9	1078.9	1078.0
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

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°	6.2	6.3	6.3	6.2	6.0	5.9	5.8	5.7	5.8	5.6	5.5
90°	16.5	15.6	14.2	12.8	11.4	10.0	8.4	6.5	4.6	2.7	0.8
92.5°	18.5	18.1	17.4	16.7	16.0	15.3	15.1	15.2	15.4	15.6	15.7
95°	31.2	30.4	29.2	28.0	26.7	25.5	27.8	33.5	39.2	44.9	50.6
97.5°	41.3	40.7	37.8	35.1	32.3	29.4	36.1	52.2	68.3	84.4	100.5
100°	45.8	44.4	41.5	38.5	35.5	32.6	43.0	66.8	90.4	114.1	137.9
102.5°	47.5	45.7	70.3	94.9	119.5	144.1	158.9	164.0	169.0	174.0	179.0
105°	49.4	47.5	94.8	142.0	189.3	236.6	257.6	252.4	247.2	242.1	236.8
107.5°	64.6	66.5	123.2	179.9	236.6	293.3	319.5	315.3	311.1	307.0	302.7
110°	119.0	136.3	186.4	236.4	286.4	336.5	359.6	356.0	352.4	348.8	345.1



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	280.7	343.9	356.2	368.6	381.0	393.3	397.9	394.7	391.4	388.2	385.0
115°	400.5	480.7	476.4	472.0	467.7	463.3	459.7	456.8	453.9	450.9	447.9
117.5°	513.0	532.4	529.5	526.4	523.5	520.5	517.4	514.0	510.8	507.5	504.2
120°	573.2	571.0	567.9	564.8	561.7	558.6	555.7	553.1	550.5	548.0	545.4
122.5°	609.0	607.8	604.4	601.0	597.6	594.3	591.2	588.4	585.7	582.9	580.2
125°	659.5	658.3	655.0	651.8	648.4	645.1	642.4	640.1	637.9	635.6	633.3
127.5°	705.6	703.8	701.3	698.9	696.4	694.0	691.5	689.0	686.5	684.0	681.5
130°	735.0	733.1	731.2	729.3	727.3	725.5	723.1	720.3	717.6	714.9	712.1
132.5°	764.0	762.4	760.4	758.6	756.7	754.7	752.6	750.2	748.0	745.6	743.2
135°	804.9	803.2	801.6	800.1	798.5	797.0	794.8	792.1	789.3	786.5	783.7
137.5°	843.1	841.4	839.6	837.8	836.1	834.3	832.4	830.5	828.6	826.6	824.7
140°	867.9	866.3	864.4	862.5	860.5	858.7	857.0	855.7	854.3	852.9	851.5
142.5°	890.8	889.3	887.2	885.0	882.8	880.6	878.9	877.7	876.4	875.1	873.9
145°	922.8	921.6	918.7	915.7	912.8	909.9	908.5	908.7	908.8	909.0	909.1
147.5°	950.9	950.0	947.1	944.1	941.3	938.3	937.2	937.8	938.5	939.1	939.9
150°	967.8	966.8	964.0	961.2	958.5	955.7	955.0	956.2	957.3	958.5	959.8
152.5°	983.4	982.4	979.7	977.1	974.4	971.8	971.2	972.6	973.9	975.3	976.6
155°	1004.4	1003.4	1001.4	999.2	997.2	995.1	994.8	996.4	997.9	999.5	1001.1
157.5°	1022.1	1020.8	1019.4	1018.0	1016.5	1015.0	1015.0	1016.3	1017.6	1019.0	1020.3
160°	1032.5	1031.4	1030.5	1029.4	1028.3	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4
162.5°	1042.0	1040.8	1039.9	1039.0	1038.1	1037.2	1037.3	1038.3	1039.3	1040.4	1041.5
165°	1053.7	1052.5	1052.0	1051.4	1050.9	1050.4	1050.7	1051.7	1052.7	1053.8	1054.8
167.5°	1063.5	1062.3	1061.8	1061.4	1060.9	1060.4	1060.6	1061.7	1062.7	1063.7	1064.8
170°	1068.5	1067.3	1067.0	1066.6	1066.2	1065.9	1066.2	1067.3	1068.4	1069.3	1070.4
172.5°	1072.3	1071.1	1070.7	1070.3	1070.0	1069.7	1070.0	1071.1	1072.0	1073.1	1074.2
175°	1076.3	1075.1	1074.7	1074.4	1074.1	1073.7	1074.2	1075.4	1076.5	1077.7	1079.0
177.5°	1077.0	1076.0	1075.9	1075.7	1075.6	1075.5	1075.9	1076.8	1077.8	1078.8	1079.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

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°	6.6	8.0	8.4	9.5	9.3	9.6	9.9	9.9	9.9	9.9	9.8
90°	2.7	4.6	6.5	8.4	10.0	11.4	12.8	14.2	15.6	16.5	17.3
92.5°	15.6	15.4	15.2	15.1	15.3	16.0	16.7	17.4	18.1	18.5	19.0
95°	44.9	39.2	33.5	27.8	25.5	26.7	28.0	29.2	30.4	31.2	32.1
97.5°	84.4	68.3	52.2	36.1	29.4	32.3	35.1	37.8	40.7	41.3	42.1
100°	114.1	90.4	66.8	43.0	32.6	35.5	38.5	41.5	44.4	45.8	47.2
102.5°	174.0	169.0	164.0	158.9	144.1	119.5	94.9	70.3	45.7	47.5	49.2
105°	242.1	247.2	252.4	257.6	236.6	189.3	142.0	94.8	47.5	49.4	51.4
107.5°	307.0	311.1	315.3	319.5	293.3	236.6	179.9	123.2	66.5	64.6	62.6
110°	348.8	352.4	356.0	359.6	336.5	286.4	236.4	186.4	136.3	119.0	101.7



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	388.2	391.4	394.7	397.9	393.3	381.0	368.6	356.2	343.9	280.7	217.5
115°	450.9	453.9	456.8	459.7	463.3	467.7	472.0	476.4	480.7	400.5	320.3
117.5°	507.5	510.8	514.0	517.4	520.5	523.5	526.4	529.5	532.4	513.0	493.6
120°	548.0	550.5	553.1	555.7	558.6	561.7	564.8	567.9	571.0	573.2	575.2
122.5°	582.9	585.7	588.4	591.2	594.3	597.6	601.0	604.4	607.8	609.0	610.3
125°	635.6	637.9	640.1	642.4	645.1	648.4	651.8	655.0	658.3	659.5	660.7
127.5°	684.0	686.5	689.0	691.5	694.0	696.4	698.9	701.3	703.8	705.6	707.4
130°	714.9	717.6	720.3	723.1	725.5	727.3	729.3	731.2	733.1	735.0	736.9
132.5°	745.6	748.0	750.2	752.6	754.7	756.7	758.6	760.4	762.4	764.0	765.6
135°	786.5	789.3	792.1	794.8	797.0	798.5	800.1	801.6	803.2	804.9	806.7
137.5°	826.6	828.6	830.5	832.4	834.3	836.1	837.8	839.6	841.4	843.1	844.7
140°	852.9	854.3	855.7	857.0	858.7	860.5	862.5	864.4	866.3	867.9	869.4
142.5°	875.1	876.4	877.7	878.9	880.6	882.8	885.0	887.2	889.3	890.8	892.2
145°	909.0	908.8	908.7	908.5	909.9	912.8	915.7	918.7	921.6	922.8	924.1
147.5°	939.1	938.5	937.8	937.2	938.3	941.3	944.1	947.1	950.0	950.9	951.8
150°	958.5	957.3	956.2	955.0	955.7	958.5	961.2	964.0	966.8	967.8	968.9
152.5°	975.3	973.9	972.6	971.2	971.8	974.4	977.1	979.7	982.4	983.4	984.5
155°	999.5	997.9	996.4	994.8	995.1	997.2	999.2	1001.4	1003.4	1004.4	1005.5
157.5°	1019.0	1017.6	1016.3	1015.0	1015.0	1016.5	1018.0	1019.4	1020.8	1022.1	1023.2
160°	1030.5	1029.4	1028.3	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4	1032.5	1033.6
162.5°	1040.4	1039.3	1038.3	1037.3	1037.2	1038.1	1039.0	1039.9	1040.8	1042.0	1043.2
165°	1053.8	1052.7	1051.7	1050.7	1050.4	1050.9	1051.4	1052.0	1052.5	1053.7	1054.9
167.5°	1063.7	1062.7	1061.7	1060.6	1060.4	1060.9	1061.4	1061.8	1062.3	1063.5	1064.7
170°	1069.3	1068.4	1067.3	1066.2	1065.9	1066.2	1066.6	1067.0	1067.3	1068.5	1069.8
172.5°	1073.1	1072.0	1071.1	1070.0	1069.7	1070.0	1070.3	1070.7	1071.1	1072.3	1073.4
175°	1077.7	1076.5	1075.4	1074.2	1073.7	1074.1	1074.4	1074.7	1075.1	1076.3	1077.5
177.5°	1078.8	1077.8	1076.8	1075.9	1075.5	1075.6	1075.7	1075.9	1076.0	1077.0	1078.0
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

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°	10.2	10.4	10.3	10.4	10.7	10.4	10.5
90°	18.2	19.1	19.6	20.0	20.3	20.7	21.0
92.5°	19.4	19.9	20.2	20.4	20.6	20.8	21.0
95°	33.0	33.8	34.2	34.0	33.8	33.7	33.5
97.5°	42.7	43.5	43.9	44.1	44.3	44.5	44.7
100°	48.6	50.0	50.8	51.1	51.5	51.9	52.2
102.5°	51.0	52.8	54.0	54.5	55.0	55.4	55.9
105°	53.2	55.1	56.4	57.2	57.8	58.5	59.2
107.5°	60.7	58.8	58.1	58.9	59.5	60.3	60.9
110°	84.4	67.1	58.8	59.4	60.2	60.8	61.6



TEST NUMBER: P331507-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	154.4	91.2	59.9	60.5	61.1	61.6	62.2
115°	240.2	160.0	113.7	101.3	88.8	76.3	63.9
117.5°	474.3	454.9	424.7	383.7	342.8	301.8	260.8
120°	577.2	579.4	568.7	545.4	522.0	498.6	475.2
122.5°	611.6	612.8	611.1	606.6	602.1	597.5	593.0
125°	661.9	663.2	664.0	664.6	665.0	665.5	666.1
127.5°	709.1	710.9	711.8	711.9	712.0	712.1	712.2
130°	738.8	740.7	741.6	741.4	741.2	741.0	740.9
132.5°	767.3	768.9	769.6	769.4	769.2	769.1	768.9
135°	808.4	810.1	810.8	810.5	810.1	809.8	809.4
137.5°	846.4	848.2	848.7	848.2	847.5	846.9	846.4
140°	871.0	872.5	872.9	872.0	871.1	870.3	869.4
142.5°	893.6	895.0	895.3	894.5	893.6	892.8	891.9
145°	925.3	926.4	926.7	925.8	924.9	924.1	923.2
147.5°	952.7	953.6	953.7	952.9	952.2	951.5	950.7
150°	969.9	970.9	971.0	970.2	969.3	968.4	967.6
152.5°	985.5	986.5	986.5	985.4	984.2	983.1	981.9
155°	1006.5	1007.5	1007.4	1006.0	1004.6	1003.2	1001.8
157.5°	1024.4	1025.6	1025.5	1024.1	1022.8	1021.4	1020.1
160°	1034.5	1035.6	1035.5	1034.3	1033.1	1031.9	1030.7
162.5°	1044.3	1045.5	1045.4	1043.8	1042.4	1040.9	1039.4
165°	1056.1	1057.4	1057.4	1056.1	1054.9	1053.7	1052.5
167.5°	1065.9	1067.1	1067.0	1065.4	1063.9	1062.3	1060.8
170°	1070.9	1072.1	1072.0	1070.4	1068.9	1067.3	1065.8
172.5°	1074.6	1075.9	1075.7	1074.2	1072.6	1071.1	1069.5
175°	1078.7	1079.9	1079.7	1077.9	1076.2	1074.5	1072.8
177.5°	1078.9	1079.9	1079.8	1078.5	1077.3	1076.0	1074.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6

(END OF REPORT)