

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: P331501-935

Luminaire Tested: **S122DIW-S485D710U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331501-935
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: S122DIW-S485D710U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4289.1 lumens
Efficiency: N/A
Efficacy: 114.1 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

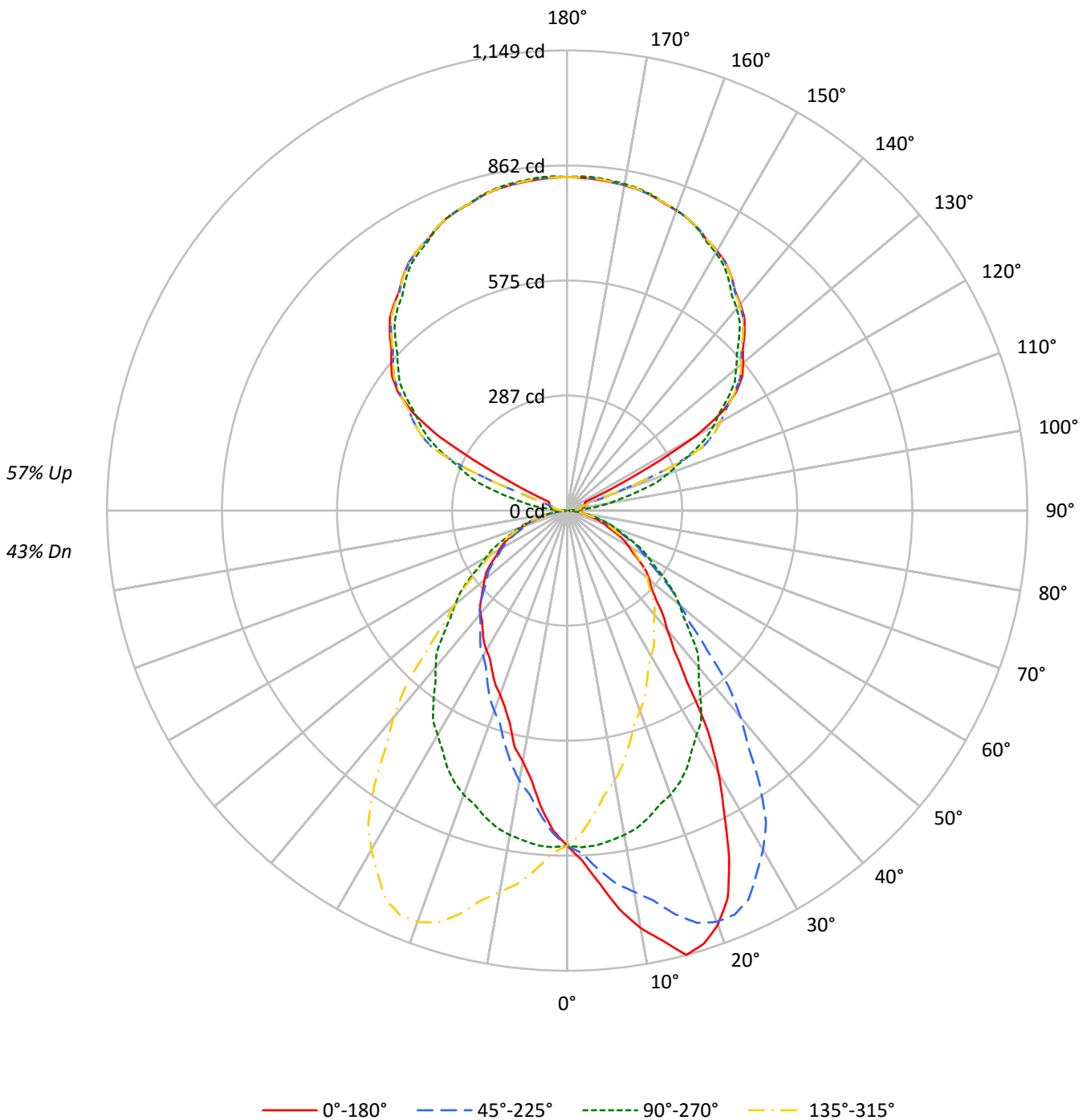
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43																				
1	97	93	89	85	88	85	82	79	70	68	66	57	55	54	45	44	43	37																				
2	88	81	75	70	81	75	70	65	62	58	55	50	48	46	40	38	37	32																				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	33	32	27																				
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24																				
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	26	24	21																				
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	27	24	22	19																				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17																				
8	54	42	35	29	49	39	32	28	33	28	24	28	24	21	22	20	17	15																				
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14																				
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13																				

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	1.9
10°-20°	231.6	5.4
20°-30°	336.2	7.8
30°-40°	354.8	8.3
40°-50°	314.1	7.3
50°-60°	250.7	5.8
60°-70°	170.4	4.0
70°-80°	87.4	2.0
80°-90°	23.1	0.5
90°-100°	27.8	0.6
100°-110°	101.9	2.4
110°-120°	272.4	6.4
120°-130°	449.6	10.5
130°-140°	478.2	11.1
140°-150°	444.4	10.4
150°-160°	357.3	8.3
160°-170°	230.3	5.4
170°-180°	79.3	1.8
0°-30°	647.5	15.1
0°-40°	1002.3	23.4
0°-60°	1567.1	36.5
0°-90°	1847.9	43.1
90°-120°	402.1	9.4
90°-150°	1774.3	41.4
90°-180°	2441.0	56.9
0°-180°	4289.1	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°	16	1	16	1	16	8
95°	26	39	26	39	26	24
105°	46	183	46	183	46	48
115°	49	347	49	347	49	124
125°	515	490	515	490	515	446
135°	626	606	626	606	626	483
145°	714	703	714	703	714	447
155°	775	775	775	775	775	358
165°	814	816	814	816	814	230
175°	830	835	830	835	830	79
180°	833	833	833	833	833	



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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°	9.9	9.9	10.1	9.8	9.7	9.9	9.7	9.4	9.5	9.6	9.6
90°	16.3	16.0	15.8	15.5	15.2	14.7	14.0	13.4	12.7	12.1	11.0
92.5°	16.3	16.1	15.9	15.8	15.7	15.4	15.1	14.7	14.3	13.9	13.4
95°	25.9	26.1	26.2	26.3	26.4	26.2	25.5	24.9	24.2	23.5	22.6
97.5°	34.6	34.4	34.3	34.1	33.9	33.6	33.1	32.5	32.0	31.4	29.3
100°	40.4	40.1	39.9	39.6	39.3	38.7	37.5	36.5	35.4	34.4	32.1
102.5°	43.3	42.9	42.5	42.2	41.8	40.9	39.5	38.1	36.7	35.3	54.3
105°	45.8	45.3	44.8	44.2	43.7	42.6	41.2	39.7	38.2	36.8	73.4
107.5°	47.1	46.6	46.1	45.5	45.0	45.5	47.0	48.5	49.9	51.5	95.3
110°	47.6	47.1	46.6	46.0	45.5	51.9	65.3	78.7	92.1	105.5	144.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	48.1	47.7	47.3	46.8	46.4	70.6	119.5	168.3	217.2	266.0	275.6
115°	49.4	59.1	68.7	78.4	88.0	123.8	185.8	247.9	309.9	371.9	368.5
117.5°	201.8	233.5	265.2	296.9	328.6	351.9	366.9	381.9	396.9	411.9	409.6
120°	367.6	385.7	403.8	421.9	440.0	448.2	446.6	445.1	443.4	441.8	439.4
122.5°	458.8	462.4	465.8	469.3	472.9	474.2	473.1	472.2	471.2	470.3	467.6
125°	515.3	515.0	514.5	514.1	513.8	513.1	512.1	511.2	510.2	509.3	506.8
127.5°	551.0	551.0	550.9	550.8	550.7	550.0	548.6	547.3	545.9	544.5	542.6
130°	573.3	573.3	573.5	573.6	573.8	573.1	571.6	570.2	568.7	567.2	565.7
132.5°	595.0	595.0	595.2	595.3	595.5	594.9	593.7	592.4	591.1	589.9	588.4
135°	626.3	626.5	626.8	627.1	627.3	626.8	625.4	624.1	622.8	621.5	620.3
137.5°	654.8	655.3	655.7	656.2	656.7	656.3	654.9	653.6	652.3	651.0	649.6
140°	672.7	673.3	674.0	674.7	675.4	675.1	673.9	672.7	671.5	670.3	668.7
142.5°	690.0	690.7	691.4	692.1	692.7	692.5	691.4	690.3	689.2	688.1	686.4
145°	714.3	714.9	715.6	716.3	717.0	716.8	715.8	714.9	714.0	713.1	710.8
147.5°	735.6	736.2	736.8	737.3	737.9	737.8	737.1	736.4	735.7	734.9	732.7
150°	748.6	749.2	749.9	750.6	751.3	751.2	750.4	749.6	748.8	748.0	745.9
152.5°	759.7	760.6	761.5	762.3	763.3	763.3	762.5	761.6	760.9	760.1	758.0
155°	775.2	776.2	777.3	778.3	779.4	779.5	778.8	777.9	777.1	776.4	774.7
157.5°	789.2	790.3	791.3	792.4	793.4	793.5	792.6	791.7	790.7	789.8	788.7
160°	797.5	798.4	799.3	800.2	801.2	801.2	800.5	799.6	798.8	798.1	797.2
162.5°	804.2	805.3	806.5	807.6	808.8	808.9	808.0	807.1	806.2	805.3	804.6
165°	814.3	815.3	816.2	817.1	818.0	818.0	817.1	816.2	815.3	814.3	813.9
167.5°	820.7	821.9	823.1	824.3	825.5	825.6	824.8	823.8	822.9	821.9	821.6
170°	824.6	825.8	827.0	828.2	829.4	829.5	828.5	827.7	826.7	825.8	825.5
172.5°	827.4	828.6	829.8	831.0	832.2	832.4	831.5	830.5	829.6	828.6	828.4
175°	830.0	831.3	832.7	834.0	835.3	835.5	834.6	833.7	832.8	831.8	831.6
177.5°	831.6	832.5	833.4	834.5	835.4	835.5	834.7	834.1	833.3	832.5	832.4
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



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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°	9.7	9.5	9.3	9.6	8.4	8.2	6.9	5.8	5.9	5.9	5.6
90°	9.9	8.9	7.7	6.5	5.0	3.5	2.1	0.6	2.1	3.5	5.0
92.5°	12.9	12.4	11.9	11.6	11.8	11.9	12.1	12.1	12.1	11.9	11.8
95°	21.6	20.7	19.7	21.5	25.9	30.3	34.8	39.2	34.8	30.3	25.9
97.5°	27.1	25.0	22.8	27.9	40.4	52.9	65.3	77.7	65.3	52.9	40.4
100°	29.8	27.6	25.2	33.3	51.7	70.0	88.3	106.7	88.3	70.0	51.7
102.5°	73.4	92.5	111.5	123.0	126.8	130.7	134.7	138.5	134.7	130.7	126.8
105°	109.9	146.5	183.0	199.3	195.3	191.3	187.3	183.2	187.3	191.3	195.3
107.5°	139.2	183.0	226.9	247.2	243.9	240.7	237.5	234.2	237.5	240.7	243.9
110°	182.9	221.6	260.3	278.3	275.4	272.7	269.8	267.0	269.8	272.7	275.4



TEST NUMBER: P331501-935

CATALOG NUMBER: S122DIW-S485D710U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	285.2	294.7	304.3	307.8	305.3	302.9	300.4	297.9	300.4	302.9	305.3
115°	365.2	361.9	358.5	355.7	353.4	351.1	348.9	346.6	348.9	351.1	353.4
117.5°	407.3	405.0	402.7	400.3	397.7	395.2	392.6	390.1	392.6	395.2	397.7
120°	437.0	434.5	432.1	430.0	427.9	425.9	424.0	421.9	424.0	425.9	427.9
122.5°	465.0	462.4	459.8	457.4	455.3	453.1	451.1	448.9	451.1	453.1	455.3
125°	504.2	501.7	499.1	497.0	495.2	493.5	491.8	490.0	491.8	493.5	495.2
127.5°	540.7	538.8	536.9	535.0	533.0	531.2	529.2	527.3	529.2	531.2	533.0
130°	564.2	562.7	561.3	559.5	557.3	555.2	553.0	550.9	553.0	555.2	557.3
132.5°	586.9	585.4	583.9	582.3	580.5	578.7	576.9	575.1	576.9	578.7	580.5
135°	619.1	617.9	616.6	614.9	612.8	610.6	608.5	606.4	608.5	610.6	612.8
137.5°	648.2	646.9	645.5	644.0	642.6	641.1	639.6	638.1	639.6	641.1	642.6
140°	667.3	665.8	664.3	663.1	662.0	660.9	659.9	658.8	659.9	660.9	662.0
142.5°	684.8	683.0	681.3	680.0	679.1	678.1	677.1	676.1	677.1	678.1	679.1
145°	708.5	706.2	704.0	702.8	703.0	703.2	703.3	703.4	703.3	703.2	703.0
147.5°	730.5	728.2	726.0	725.1	725.7	726.2	726.7	727.1	726.7	726.2	725.7
150°	743.7	741.6	739.4	738.8	739.8	740.7	741.7	742.6	741.7	740.7	739.8
152.5°	756.0	754.0	751.9	751.4	752.4	753.5	754.6	755.6	754.6	753.5	752.4
155°	773.1	771.5	769.9	769.7	770.9	772.1	773.4	774.6	773.4	772.1	770.9
157.5°	787.6	786.4	785.3	785.3	786.3	787.3	788.3	789.4	788.3	787.3	786.3
160°	796.4	795.7	794.8	794.8	795.7	796.4	797.2	798.1	797.2	796.4	795.7
162.5°	803.9	803.1	802.5	802.5	803.3	804.2	804.9	805.7	804.9	804.2	803.3
165°	813.5	813.1	812.7	812.9	813.7	814.5	815.3	816.1	815.3	814.5	813.7
167.5°	821.1	820.8	820.4	820.6	821.4	822.3	823.0	823.8	823.0	822.3	821.4
170°	825.3	824.9	824.7	824.9	825.8	826.6	827.3	828.2	827.3	826.6	825.8
172.5°	828.1	827.9	827.6	827.9	828.6	829.5	830.3	831.0	830.3	829.5	828.6
175°	831.3	831.0	830.7	831.0	832.0	832.9	833.9	834.8	833.9	832.9	832.0
177.5°	832.3	832.2	832.1	832.4	833.2	833.9	834.7	835.4	834.7	833.9	833.2
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



TEST NUMBER: P331501-935

CATALOG NUMBER: S122DIW-S485D710U935-4F0-1E-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°	5.7	5.7	5.6	5.9	5.8	5.8	5.6	5.8	5.9	5.5	5.6
90°	6.5	7.7	8.9	9.9	11.0	12.1	12.7	13.4	14.0	14.7	15.2
92.5°	11.6	11.9	12.4	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.7
95°	21.5	19.7	20.7	21.6	22.6	23.5	24.2	24.9	25.5	26.2	26.4
97.5°	27.9	22.8	25.0	27.1	29.3	31.4	32.0	32.5	33.1	33.6	33.9
100°	33.3	25.2	27.6	29.8	32.1	34.4	35.4	36.5	37.5	38.7	39.3
102.5°	123.0	111.5	92.5	73.4	54.3	35.3	36.7	38.1	39.5	40.9	41.8
105°	199.3	183.0	146.5	109.9	73.4	36.8	38.2	39.7	41.2	42.6	43.7
107.5°	247.2	226.9	183.0	139.2	95.3	51.5	49.9	48.5	47.0	45.5	45.0
110°	278.3	260.3	221.6	182.9	144.2	105.5	92.1	78.7	65.3	51.9	45.5



TEST NUMBER: P331501-935

CATALOG NUMBER: S122DIW-S485D710U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	307.8	304.3	294.7	285.2	275.6	266.0	217.2	168.3	119.5	70.6	46.4
115°	355.7	358.5	361.9	365.2	368.5	371.9	309.9	247.9	185.8	123.8	88.0
117.5°	400.3	402.7	405.0	407.3	409.6	411.9	396.9	381.9	366.9	351.9	328.6
120°	430.0	432.1	434.5	437.0	439.4	441.8	443.4	445.1	446.6	448.2	440.0
122.5°	457.4	459.8	462.4	465.0	467.6	470.3	471.2	472.2	473.1	474.2	472.9
125°	497.0	499.1	501.7	504.2	506.8	509.3	510.2	511.2	512.1	513.1	513.8
127.5°	535.0	536.9	538.8	540.7	542.6	544.5	545.9	547.3	548.6	550.0	550.7
130°	559.5	561.3	562.7	564.2	565.7	567.2	568.7	570.2	571.6	573.1	573.8
132.5°	582.3	583.9	585.4	586.9	588.4	589.9	591.1	592.4	593.7	594.9	595.5
135°	614.9	616.6	617.9	619.1	620.3	621.5	622.8	624.1	625.4	626.8	627.3
137.5°	644.0	645.5	646.9	648.2	649.6	651.0	652.3	653.6	654.9	656.3	656.7
140°	663.1	664.3	665.8	667.3	668.7	670.3	671.5	672.7	673.9	675.1	675.4
142.5°	680.0	681.3	683.0	684.8	686.4	688.1	689.2	690.3	691.4	692.5	692.7
145°	702.8	704.0	706.2	708.5	710.8	713.1	714.0	714.9	715.8	716.8	717.0
147.5°	725.1	726.0	728.2	730.5	732.7	734.9	735.7	736.4	737.1	737.8	737.9
150°	738.8	739.4	741.6	743.7	745.9	748.0	748.8	749.6	750.4	751.2	751.3
152.5°	751.4	751.9	754.0	756.0	758.0	760.1	760.9	761.6	762.5	763.3	763.3
155°	769.7	769.9	771.5	773.1	774.7	776.4	777.1	777.9	778.8	779.5	779.4
157.5°	785.3	785.3	786.4	787.6	788.7	789.8	790.7	791.7	792.6	793.5	793.4
160°	794.8	794.8	795.7	796.4	797.2	798.1	798.8	799.6	800.5	801.2	801.2
162.5°	802.5	802.5	803.1	803.9	804.6	805.3	806.2	807.1	808.0	808.9	808.8
165°	812.9	812.7	813.1	813.5	813.9	814.3	815.3	816.2	817.1	818.0	818.0
167.5°	820.6	820.4	820.8	821.1	821.6	821.9	822.9	823.8	824.8	825.6	825.5
170°	824.9	824.7	824.9	825.3	825.5	825.8	826.7	827.7	828.5	829.5	829.4
172.5°	827.9	827.6	827.9	828.1	828.4	828.6	829.6	830.5	831.5	832.4	832.2
175°	831.0	830.7	831.0	831.3	831.6	831.8	832.8	833.7	834.6	835.5	835.3
177.5°	832.4	832.1	832.2	832.3	832.4	832.5	833.3	834.1	834.7	835.5	835.4
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



TEST NUMBER: P331501-935

CATALOG NUMBER: S122DIW-S485D710U935-4F0-1E-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°	5.7	5.4	5.5	5.3	5.5	5.4	5.7	5.6	5.5	5.9	5.8
90°	15.5	15.8	16.0	16.3	16.0	15.8	15.5	15.2	14.7	14.0	13.4
92.5°	15.8	15.9	16.1	16.3	16.1	15.9	15.8	15.7	15.4	15.1	14.7
95°	26.3	26.2	26.1	25.9	26.1	26.2	26.3	26.4	26.2	25.5	24.9
97.5°	34.1	34.3	34.4	34.6	34.4	34.3	34.1	33.9	33.6	33.1	32.5
100°	39.6	39.9	40.1	40.4	40.1	39.9	39.6	39.3	38.7	37.5	36.5
102.5°	42.2	42.5	42.9	43.3	42.9	42.5	42.2	41.8	40.9	39.5	38.1
105°	44.2	44.8	45.3	45.8	45.3	44.8	44.2	43.7	42.6	41.2	39.7
107.5°	45.5	46.1	46.6	47.1	46.6	46.1	45.5	45.0	45.5	47.0	48.5
110°	46.0	46.6	47.1	47.6	47.1	46.6	46.0	45.5	51.9	65.3	78.7



TEST NUMBER: P331501-935

CATALOG NUMBER: S122DIW-S485D710U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	46.8	47.3	47.7	48.1	47.7	47.3	46.8	46.4	70.6	119.5	168.3
115°	78.4	68.7	59.1	49.4	59.1	68.7	78.4	88.0	123.8	185.8	247.9
117.5°	296.9	265.2	233.5	201.8	233.5	265.2	296.9	328.6	351.9	366.9	381.9
120°	421.9	403.8	385.7	367.6	385.7	403.8	421.9	440.0	448.2	446.6	445.1
122.5°	469.3	465.8	462.4	458.8	462.4	465.8	469.3	472.9	474.2	473.1	472.2
125°	514.1	514.5	515.0	515.3	515.0	514.5	514.1	513.8	513.1	512.1	511.2
127.5°	550.8	550.9	551.0	551.0	551.0	550.9	550.8	550.7	550.0	548.6	547.3
130°	573.6	573.5	573.3	573.3	573.3	573.5	573.6	573.8	573.1	571.6	570.2
132.5°	595.3	595.2	595.0	595.0	595.0	595.2	595.3	595.5	594.9	593.7	592.4
135°	627.1	626.8	626.5	626.3	626.5	626.8	627.1	627.3	626.8	625.4	624.1
137.5°	656.2	655.7	655.3	654.8	655.3	655.7	656.2	656.7	656.3	654.9	653.6
140°	674.7	674.0	673.3	672.7	673.3	674.0	674.7	675.4	675.1	673.9	672.7
142.5°	692.1	691.4	690.7	690.0	690.7	691.4	692.1	692.7	692.5	691.4	690.3
145°	716.3	715.6	714.9	714.3	714.9	715.6	716.3	717.0	716.8	715.8	714.9
147.5°	737.3	736.8	736.2	735.6	736.2	736.8	737.3	737.9	737.8	737.1	736.4
150°	750.6	749.9	749.2	748.6	749.2	749.9	750.6	751.3	751.2	750.4	749.6
152.5°	762.3	761.5	760.6	759.7	760.6	761.5	762.3	763.3	763.3	762.5	761.6
155°	778.3	777.3	776.2	775.2	776.2	777.3	778.3	779.4	779.5	778.8	777.9
157.5°	792.4	791.3	790.3	789.2	790.3	791.3	792.4	793.4	793.5	792.6	791.7
160°	800.2	799.3	798.4	797.5	798.4	799.3	800.2	801.2	801.2	800.5	799.6
162.5°	807.6	806.5	805.3	804.2	805.3	806.5	807.6	808.8	808.9	808.0	807.1
165°	817.1	816.2	815.3	814.3	815.3	816.2	817.1	818.0	818.0	817.1	816.2
167.5°	824.3	823.1	821.9	820.7	821.9	823.1	824.3	825.5	825.6	824.8	823.8
170°	828.2	827.0	825.8	824.6	825.8	827.0	828.2	829.4	829.5	828.5	827.7
172.5°	831.0	829.8	828.6	827.4	828.6	829.8	831.0	832.2	832.4	831.5	830.5
175°	834.0	832.7	831.3	830.0	831.3	832.7	834.0	835.3	835.5	834.6	833.7
177.5°	834.5	833.4	832.5	831.6	832.5	833.4	834.5	835.4	835.5	834.7	834.1
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



TEST NUMBER: P331501-935

CATALOG NUMBER: S122DIW-S485D710U935-4F0-1E-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°	5.6	5.8	5.8	5.9	5.6	5.7	5.7	5.6	5.9	5.9	5.8
90°	12.7	12.1	11.0	9.9	8.9	7.7	6.5	5.0	3.5	2.1	0.6
92.5°	14.3	13.9	13.4	12.9	12.4	11.9	11.6	11.8	11.9	12.1	12.1
95°	24.2	23.5	22.6	21.6	20.7	19.7	21.5	25.9	30.3	34.8	39.2
97.5°	32.0	31.4	29.3	27.1	25.0	22.8	27.9	40.4	52.9	65.3	77.7
100°	35.4	34.4	32.1	29.8	27.6	25.2	33.3	51.7	70.0	88.3	106.7
102.5°	36.7	35.3	54.3	73.4	92.5	111.5	123.0	126.8	130.7	134.7	138.5
105°	38.2	36.8	73.4	109.9	146.5	183.0	199.3	195.3	191.3	187.3	183.2
107.5°	49.9	51.5	95.3	139.2	183.0	226.9	247.2	243.9	240.7	237.5	234.2
110°	92.1	105.5	144.2	182.9	221.6	260.3	278.3	275.4	272.7	269.8	267.0



TEST NUMBER: P331501-935

CATALOG NUMBER: S122DIW-S485D710U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	217.2	266.0	275.6	285.2	294.7	304.3	307.8	305.3	302.9	300.4	297.9
115°	309.9	371.9	368.5	365.2	361.9	358.5	355.7	353.4	351.1	348.9	346.6
117.5°	396.9	411.9	409.6	407.3	405.0	402.7	400.3	397.7	395.2	392.6	390.1
120°	443.4	441.8	439.4	437.0	434.5	432.1	430.0	427.9	425.9	424.0	421.9
122.5°	471.2	470.3	467.6	465.0	462.4	459.8	457.4	455.3	453.1	451.1	448.9
125°	510.2	509.3	506.8	504.2	501.7	499.1	497.0	495.2	493.5	491.8	490.0
127.5°	545.9	544.5	542.6	540.7	538.8	536.9	535.0	533.0	531.2	529.2	527.3
130°	568.7	567.2	565.7	564.2	562.7	561.3	559.5	557.3	555.2	553.0	550.9
132.5°	591.1	589.9	588.4	586.9	585.4	583.9	582.3	580.5	578.7	576.9	575.1
135°	622.8	621.5	620.3	619.1	617.9	616.6	614.9	612.8	610.6	608.5	606.4
137.5°	652.3	651.0	649.6	648.2	646.9	645.5	644.0	642.6	641.1	639.6	638.1
140°	671.5	670.3	668.7	667.3	665.8	664.3	663.1	662.0	660.9	659.9	658.8
142.5°	689.2	688.1	686.4	684.8	683.0	681.3	680.0	679.1	678.1	677.1	676.1
145°	714.0	713.1	710.8	708.5	706.2	704.0	702.8	703.0	703.2	703.3	703.4
147.5°	735.7	734.9	732.7	730.5	728.2	726.0	725.1	725.7	726.2	726.7	727.1
150°	748.8	748.0	745.9	743.7	741.6	739.4	738.8	739.8	740.7	741.7	742.6
152.5°	760.9	760.1	758.0	756.0	754.0	751.9	751.4	752.4	753.5	754.6	755.6
155°	777.1	776.4	774.7	773.1	771.5	769.9	769.7	770.9	772.1	773.4	774.6
157.5°	790.7	789.8	788.7	787.6	786.4	785.3	785.3	786.3	787.3	788.3	789.4
160°	798.8	798.1	797.2	796.4	795.7	794.8	794.8	795.7	796.4	797.2	798.1
162.5°	806.2	805.3	804.6	803.9	803.1	802.5	802.5	803.3	804.2	804.9	805.7
165°	815.3	814.3	813.9	813.5	813.1	812.7	812.9	813.7	814.5	815.3	816.1
167.5°	822.9	821.9	821.6	821.1	820.8	820.4	820.6	821.4	822.3	823.0	823.8
170°	826.7	825.8	825.5	825.3	824.9	824.7	824.9	825.8	826.6	827.3	828.2
172.5°	829.6	828.6	828.4	828.1	827.9	827.6	827.9	828.6	829.5	830.3	831.0
175°	832.8	831.8	831.6	831.3	831.0	830.7	831.0	832.0	832.9	833.9	834.8
177.5°	833.3	832.5	832.4	832.3	832.2	832.1	832.4	833.2	833.9	834.7	835.4
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



TEST NUMBER: P331501-935

CATALOG NUMBER: S122DIW-S485D710U935-4F0-1E-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°	6.9	8.2	8.4	9.6	9.3	9.5	9.7	9.6	9.6	9.5	9.4
90°	2.1	3.5	5.0	6.5	7.7	8.9	9.9	11.0	12.1	12.7	13.4
92.5°	12.1	11.9	11.8	11.6	11.9	12.4	12.9	13.4	13.9	14.3	14.7
95°	34.8	30.3	25.9	21.5	19.7	20.7	21.6	22.6	23.5	24.2	24.9
97.5°	65.3	52.9	40.4	27.9	22.8	25.0	27.1	29.3	31.4	32.0	32.5
100°	88.3	70.0	51.7	33.3	25.2	27.6	29.8	32.1	34.4	35.4	36.5
102.5°	134.7	130.7	126.8	123.0	111.5	92.5	73.4	54.3	35.3	36.7	38.1
105°	187.3	191.3	195.3	199.3	183.0	146.5	109.9	73.4	36.8	38.2	39.7
107.5°	237.5	240.7	243.9	247.2	226.9	183.0	139.2	95.3	51.5	49.9	48.5
110°	269.8	272.7	275.4	278.3	260.3	221.6	182.9	144.2	105.5	92.1	78.7



TEST NUMBER: P331501-935

CATALOG NUMBER: S122DIW-S485D710U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	300.4	302.9	305.3	307.8	304.3	294.7	285.2	275.6	266.0	217.2	168.3
115°	348.9	351.1	353.4	355.7	358.5	361.9	365.2	368.5	371.9	309.9	247.9
117.5°	392.6	395.2	397.7	400.3	402.7	405.0	407.3	409.6	411.9	396.9	381.9
120°	424.0	425.9	427.9	430.0	432.1	434.5	437.0	439.4	441.8	443.4	445.1
122.5°	451.1	453.1	455.3	457.4	459.8	462.4	465.0	467.6	470.3	471.2	472.2
125°	491.8	493.5	495.2	497.0	499.1	501.7	504.2	506.8	509.3	510.2	511.2
127.5°	529.2	531.2	533.0	535.0	536.9	538.8	540.7	542.6	544.5	545.9	547.3
130°	553.0	555.2	557.3	559.5	561.3	562.7	564.2	565.7	567.2	568.7	570.2
132.5°	576.9	578.7	580.5	582.3	583.9	585.4	586.9	588.4	589.9	591.1	592.4
135°	608.5	610.6	612.8	614.9	616.6	617.9	619.1	620.3	621.5	622.8	624.1
137.5°	639.6	641.1	642.6	644.0	645.5	646.9	648.2	649.6	651.0	652.3	653.6
140°	659.9	660.9	662.0	663.1	664.3	665.8	667.3	668.7	670.3	671.5	672.7
142.5°	677.1	678.1	679.1	680.0	681.3	683.0	684.8	686.4	688.1	689.2	690.3
145°	703.3	703.2	703.0	702.8	704.0	706.2	708.5	710.8	713.1	714.0	714.9
147.5°	726.7	726.2	725.7	725.1	726.0	728.2	730.5	732.7	734.9	735.7	736.4
150°	741.7	740.7	739.8	738.8	739.4	741.6	743.7	745.9	748.0	748.8	749.6
152.5°	754.6	753.5	752.4	751.4	751.9	754.0	756.0	758.0	760.1	760.9	761.6
155°	773.4	772.1	770.9	769.7	769.9	771.5	773.1	774.7	776.4	777.1	777.9
157.5°	788.3	787.3	786.3	785.3	785.3	786.4	787.6	788.7	789.8	790.7	791.7
160°	797.2	796.4	795.7	794.8	794.8	795.7	796.4	797.2	798.1	798.8	799.6
162.5°	804.9	804.2	803.3	802.5	802.5	803.1	803.9	804.6	805.3	806.2	807.1
165°	815.3	814.5	813.7	812.9	812.7	813.1	813.5	813.9	814.3	815.3	816.2
167.5°	823.0	822.3	821.4	820.6	820.4	820.8	821.1	821.6	821.9	822.9	823.8
170°	827.3	826.6	825.8	824.9	824.7	824.9	825.3	825.5	825.8	826.7	827.7
172.5°	830.3	829.5	828.6	827.9	827.6	827.9	828.1	828.4	828.6	829.6	830.5
175°	833.9	832.9	832.0	831.0	830.7	831.0	831.3	831.6	831.8	832.8	833.7
177.5°	834.7	833.9	833.2	832.4	832.1	832.2	832.3	832.4	832.5	833.3	834.1
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0	833.0



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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°	9.7	9.9	9.7	9.8	10.1	9.9	9.9
90°	14.0	14.7	15.2	15.5	15.8	16.0	16.3
92.5°	15.1	15.4	15.7	15.8	15.9	16.1	16.3
95°	25.5	26.2	26.4	26.3	26.2	26.1	25.9
97.5°	33.1	33.6	33.9	34.1	34.3	34.4	34.6
100°	37.5	38.7	39.3	39.6	39.9	40.1	40.4
102.5°	39.5	40.9	41.8	42.2	42.5	42.9	43.3
105°	41.2	42.6	43.7	44.2	44.8	45.3	45.8
107.5°	47.0	45.5	45.0	45.5	46.1	46.6	47.1
110°	65.3	51.9	45.5	46.0	46.6	47.1	47.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	119.5	70.6	46.4	46.8	47.3	47.7	48.1
115°	185.8	123.8	88.0	78.4	68.7	59.1	49.4
117.5°	366.9	351.9	328.6	296.9	265.2	233.5	201.8
120°	446.6	448.2	440.0	421.9	403.8	385.7	367.6
122.5°	473.1	474.2	472.9	469.3	465.8	462.4	458.8
125°	512.1	513.1	513.8	514.1	514.5	515.0	515.3
127.5°	548.6	550.0	550.7	550.8	550.9	551.0	551.0
130°	571.6	573.1	573.8	573.6	573.5	573.3	573.3
132.5°	593.7	594.9	595.5	595.3	595.2	595.0	595.0
135°	625.4	626.8	627.3	627.1	626.8	626.5	626.3
137.5°	654.9	656.3	656.7	656.2	655.7	655.3	654.8
140°	673.9	675.1	675.4	674.7	674.0	673.3	672.7
142.5°	691.4	692.5	692.7	692.1	691.4	690.7	690.0
145°	715.8	716.8	717.0	716.3	715.6	714.9	714.3
147.5°	737.1	737.8	737.9	737.3	736.8	736.2	735.6
150°	750.4	751.2	751.3	750.6	749.9	749.2	748.6
152.5°	762.5	763.3	763.3	762.3	761.5	760.6	759.7
155°	778.8	779.5	779.4	778.3	777.3	776.2	775.2
157.5°	792.6	793.5	793.4	792.4	791.3	790.3	789.2
160°	800.5	801.2	801.2	800.2	799.3	798.4	797.5
162.5°	808.0	808.9	808.8	807.6	806.5	805.3	804.2
165°	817.1	818.0	818.0	817.1	816.2	815.3	814.3
167.5°	824.8	825.6	825.5	824.3	823.1	821.9	820.7
170°	828.5	829.5	829.4	828.2	827.0	825.8	824.6
172.5°	831.5	832.4	832.2	831.0	829.8	828.6	827.4
175°	834.6	835.5	835.3	834.0	832.7	831.3	830.0
177.5°	834.7	835.5	835.4	834.5	833.4	832.5	831.6
180°	833.0	833.0	833.0	833.0	833.0	833.0	833.0

(END OF REPORT)