

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: P331496-935

Luminaire Tested: **S122DIW-S485D435U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331496-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S485D435U935-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3140.2 lumens
Efficiency: N/A
Efficacy: 104.0 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

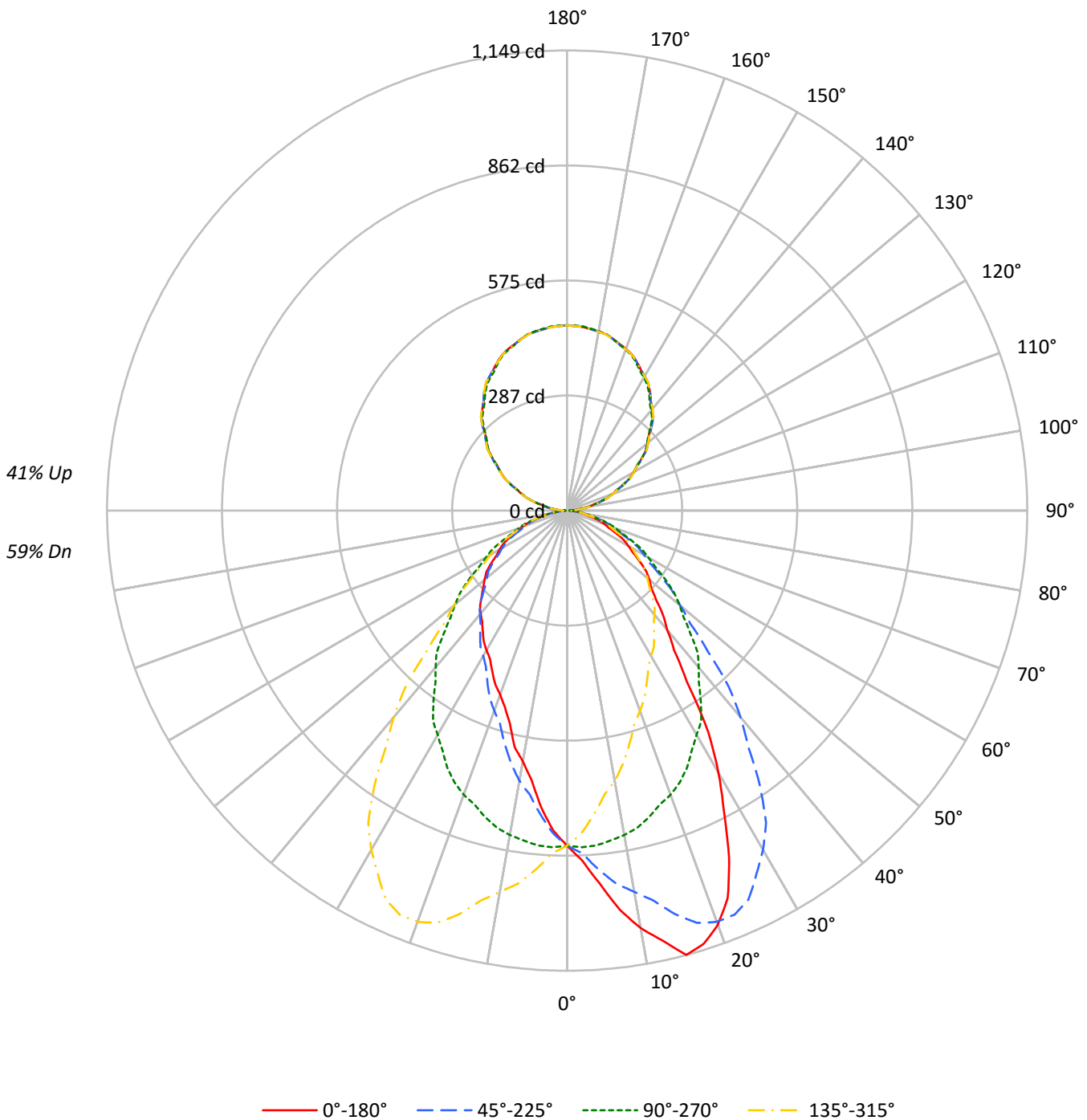
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	87	84	78	76	74	68	66	64	58	56	55	51
2	92	85	79	74	85	79	74	70	69	65	62	60	57	55	51	49	47	43
3	84	75	68	62	78	70	64	59	62	57	53	54	50	47	46	43	41	37
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	42	38	36	33
5	71	60	52	46	66	56	49	44	50	44	40	44	39	36	38	34	32	29
6	66	54	46	40	61	51	44	38	45	39	35	40	35	32	34	31	28	25
7	61	49	41	36	57	46	39	34	41	35	31	36	32	28	32	28	25	23
8	57	45	37	32	53	42	35	30	38	32	28	33	29	25	29	26	23	21
9	53	41	34	29	50	39	32	27	35	29	25	31	26	23	27	23	21	19
10	50	38	31	26	46	36	29	25	32	27	23	29	24	21	25	22	19	17

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	2.5
10°-20°	231.6	7.4
20°-30°	336.2	10.7
30°-40°	354.8	11.3
40°-50°	314.1	10.0
50°-60°	250.7	8.0
60°-70°	170.4	5.4
70°-80°	87.4	2.8
80°-90°	22.9	0.7
90°-100°	29.3	0.9
100°-110°	91.0	2.9
110°-120°	155.5	5.0
120°-130°	204.5	6.5
130°-140°	229.5	7.3
140°-150°	225.0	7.2
150°-160°	188.8	6.0
160°-170°	125.2	4.0
170°-180°	43.8	1.4
0°-30°	647.5	20.6
0°-40°	1002.3	31.9
0°-60°	1567.1	49.9
0°-90°	1847.7	58.8
90°-120°	275.7	8.8
90°-150°	934.8	29.8
90°-180°	1293.0	41.2
0°-180°	3140.2	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°	13	0	13	0	13	7
95°	24	20	24	20	24	27
105°	87	84	87	84	87	91
115°	156	156	156	156	156	154
125°	228	227	228	227	228	203
135°	297	294	297	294	297	229
145°	360	356	360	356	360	225
155°	411	408	411	408	411	189
165°	444	444	444	444	444	125
175°	460	462	460	462	460	44
180°	462	462	462	462	462	



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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°	9.3	9.3	9.6	9.3	9.3	9.6	9.6	9.4	9.6	9.9	9.8
90°	13.3	13.2	13.1	13.0	12.9	13.0	13.2	13.3	13.5	13.7	11.7
92.5°	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.4	12.4	12.0
95°	24.2	24.4	24.5	24.7	24.9	25.0	25.0	25.0	25.0	25.0	24.8
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.7
100°	53.5	53.6	53.6	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.6
102.5°	66.6	66.6	66.7	66.8	66.9	66.9	66.8	66.7	66.7	66.6	66.3
105°	86.6	86.6	86.6	86.6	86.6	86.5	86.4	86.2	86.0	85.8	85.7
107.5°	105.5	105.9	106.2	106.7	107.1	107.3	107.2	107.1	107.0	106.9	106.9
110°	120.1	120.4	120.6	120.9	121.1	121.3	121.3	121.3	121.3	121.3	121.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	134.2	134.4	134.6	134.7	134.9	135.2	135.3	135.6	135.8	136.0	136.0
115°	156.0	156.3	156.5	156.8	157.0	157.2	157.3	157.4	157.5	157.6	157.7
117.5°	176.8	177.1	177.4	177.6	177.9	178.1	178.3	178.6	178.7	179.0	179.4
120°	191.6	191.8	192.1	192.3	192.6	192.7	192.7	192.7	192.7	192.7	193.4
122.5°	205.9	206.0	206.3	206.5	206.6	206.8	207.1	207.2	207.5	207.7	208.2
125°	227.8	227.9	228.0	228.1	228.2	228.3	228.6	228.9	229.1	229.4	229.6
127.5°	247.8	248.1	248.3	248.6	248.9	249.2	249.5	249.8	250.1	250.5	250.7
130°	262.2	262.5	262.9	263.2	263.6	263.8	264.0	264.2	264.3	264.5	264.7
132.5°	275.9	276.1	276.4	276.7	277.0	277.3	277.7	278.1	278.4	278.8	278.8
135°	297.2	297.5	297.7	298.0	298.3	298.4	298.5	298.6	298.7	298.8	298.6
137.5°	316.6	316.9	317.3	317.6	318.0	318.2	318.2	318.3	318.4	318.5	318.2
140°	330.0	330.4	330.7	331.1	331.4	331.6	331.6	331.6	331.6	331.6	331.1
142.5°	342.2	342.5	342.9	343.2	343.5	343.7	343.6	343.5	343.5	343.5	343.1
145°	360.4	360.8	361.1	361.4	361.8	362.0	361.9	361.8	361.7	361.6	361.1
147.5°	376.8	377.0	377.4	377.7	378.1	378.2	378.0	377.7	377.5	377.4	377.0
150°	387.4	387.6	387.9	388.1	388.4	388.4	388.1	387.9	387.6	387.4	387.0
152.5°	397.4	397.7	398.0	398.3	398.6	398.6	398.3	398.0	397.7	397.4	396.9
155°	410.8	411.0	411.3	411.6	411.8	411.7	411.3	410.9	410.4	410.0	409.7
157.5°	422.3	422.8	423.1	423.5	424.0	423.9	423.3	422.7	422.1	421.5	421.4
160°	429.5	429.8	430.2	430.5	430.8	430.8	430.2	429.7	429.2	428.7	428.6
162.5°	435.8	436.1	436.5	437.0	437.4	437.3	436.7	436.1	435.5	435.0	434.9
165°	443.9	444.4	444.8	445.2	445.7	445.6	445.0	444.4	443.8	443.2	443.2
167.5°	450.6	451.1	451.5	451.9	452.5	452.4	451.8	451.2	450.6	450.0	450.0
170°	454.1	454.6	455.1	455.6	456.2	456.1	455.5	454.9	454.3	453.7	453.7
172.5°	456.8	457.4	457.9	458.4	458.9	458.9	458.3	457.7	457.1	456.5	456.6
175°	459.9	460.5	461.0	461.5	462.0	461.9	461.3	460.7	460.1	459.5	459.7
177.5°	461.3	461.8	462.2	462.5	463.0	463.0	462.5	462.2	461.8	461.3	461.4
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



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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°	9.6	9.3	9.0	9.1	8.2	7.9	6.7	5.8	5.7	5.6	5.3
90°	9.8	7.9	6.0	4.6	3.5	2.5	1.5	0.4	1.5	2.5	3.5
92.5°	11.5	11.0	10.6	10.0	9.2	8.4	7.7	7.0	7.7	8.4	9.2
95°	24.6	24.5	24.3	23.8	22.9	22.0	21.2	20.3	21.2	22.0	22.9
97.5°	41.3	41.0	40.6	40.1	39.3	38.6	37.8	37.0	37.8	38.6	39.3
100°	53.3	53.0	52.8	52.3	51.7	50.9	50.2	49.5	50.2	50.9	51.7
102.5°	66.0	65.6	65.3	64.8	64.3	63.7	63.2	62.7	63.2	63.7	64.3
105°	85.5	85.3	85.2	84.9	84.6	84.4	84.1	83.9	84.1	84.4	84.6
107.5°	106.9	106.9	106.9	106.8	106.4	106.0	105.6	105.2	105.6	106.0	106.4
110°	121.3	121.3	121.3	121.1	120.5	120.0	119.5	119.0	119.5	120.0	120.5



TEST NUMBER: P331496-935

CATALOG NUMBER: S122DIW-S485D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	136.1	136.2	136.3	136.0	135.5	135.0	134.5	134.0	134.5	135.0	135.5
115°	157.9	158.1	158.3	158.1	157.6	157.0	156.5	156.0	156.5	157.0	157.6
117.5°	179.9	180.5	180.9	180.8	180.1	179.4	178.7	178.1	178.7	179.4	180.1
120°	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7	193.4	194.1	194.8
122.5°	208.6	209.1	209.7	209.5	208.6	207.8	207.0	206.1	207.0	207.8	208.6
125°	229.9	230.1	230.4	230.1	229.4	228.6	227.8	227.0	227.8	228.6	229.4
127.5°	251.1	251.4	251.7	251.3	250.4	249.3	248.4	247.4	248.4	249.3	250.4
130°	264.8	265.0	265.2	264.7	263.6	262.4	261.3	260.2	261.3	262.4	263.6
132.5°	278.8	278.7	278.7	278.2	277.3	276.4	275.4	274.6	275.4	276.4	277.3
135°	298.4	298.3	298.1	297.6	296.6	295.7	294.7	293.8	294.7	295.7	296.6
137.5°	318.1	317.8	317.5	317.0	316.2	315.5	314.7	313.9	314.7	315.5	316.2
140°	330.7	330.3	329.8	329.2	328.5	327.7	326.9	326.1	326.9	327.7	328.5
142.5°	342.9	342.5	342.2	341.7	341.0	340.2	339.4	338.6	339.4	340.2	341.0
145°	360.6	360.1	359.6	359.0	358.3	357.7	357.1	356.5	357.1	357.7	358.3
147.5°	376.7	376.3	376.0	375.5	374.7	374.0	373.2	372.6	373.2	374.0	374.7
150°	386.7	386.3	386.0	385.6	385.0	384.5	384.0	383.5	384.0	384.5	385.0
152.5°	396.5	396.1	395.7	395.2	394.7	394.2	393.6	393.1	393.6	394.2	394.7
155°	409.5	409.2	409.0	408.7	408.5	408.1	407.9	407.6	407.9	408.1	408.5
157.5°	421.2	421.0	420.9	420.8	420.6	420.4	420.3	420.1	420.3	420.4	420.6
160°	428.5	428.4	428.3	428.3	428.1	427.9	427.7	427.6	427.7	427.9	428.1
162.5°	434.8	434.7	434.6	434.5	434.5	434.5	434.5	434.4	434.5	434.5	434.5
165°	443.2	443.2	443.2	443.2	443.2	443.3	443.4	443.5	443.4	443.3	443.2
167.5°	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.2	450.9	450.6	450.4
170°	453.8	453.9	454.0	454.2	454.4	454.7	455.0	455.2	455.0	454.7	454.4
172.5°	456.7	456.8	456.8	457.0	457.3	457.5	457.8	458.1	457.8	457.5	457.3
175°	459.9	460.0	460.2	460.5	460.7	461.0	461.2	461.5	461.2	461.0	460.7
177.5°	461.6	461.8	461.8	462.0	462.3	462.4	462.7	462.9	462.7	462.4	462.3
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331496-935

CATALOG NUMBER: S122DIW-S485D435U935-4F0-1E-UDD-A1

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	5.4	5.9	5.9	6.1	5.8	5.8	5.7	5.2	5.2
90°	4.6	6.0	7.9	9.8	11.7	13.7	13.5	13.3	13.2	13.0	12.9
92.5°	10.0	10.6	11.0	11.5	12.0	12.4	12.4	12.5	12.5	12.6	12.6
95°	23.8	24.3	24.5	24.6	24.8	25.0	25.0	25.0	25.0	25.0	24.9
97.5°	40.1	40.6	41.0	41.3	41.7	41.9	41.9	41.9	41.9	41.9	41.9
100°	52.3	52.8	53.0	53.3	53.6	53.8	53.8	53.8	53.8	53.8	53.8
102.5°	64.8	65.3	65.6	66.0	66.3	66.6	66.7	66.7	66.8	66.9	66.9
105°	84.9	85.2	85.3	85.5	85.7	85.8	86.0	86.2	86.4	86.5	86.6
107.5°	106.8	106.9	106.9	106.9	106.9	106.9	107.0	107.1	107.2	107.3	107.1
110°	121.1	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.1



TEST NUMBER: P331496-935

CATALOG NUMBER: S122DIW-S485D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	136.0	136.3	136.2	136.1	136.0	136.0	135.8	135.6	135.3	135.2	134.9
115°	158.1	158.3	158.1	157.9	157.7	157.6	157.5	157.4	157.3	157.2	157.0
117.5°	180.8	180.9	180.5	179.9	179.4	179.0	178.7	178.6	178.3	178.1	177.9
120°	195.4	195.4	194.8	194.1	193.4	192.7	192.7	192.7	192.7	192.7	192.6
122.5°	209.5	209.7	209.1	208.6	208.2	207.7	207.5	207.2	207.1	206.8	206.6
125°	230.1	230.4	230.1	229.9	229.6	229.4	229.1	228.9	228.6	228.3	228.2
127.5°	251.3	251.7	251.4	251.1	250.7	250.5	250.1	249.8	249.5	249.2	248.9
130°	264.7	265.2	265.0	264.8	264.7	264.5	264.3	264.2	264.0	263.8	263.6
132.5°	278.2	278.7	278.7	278.8	278.8	278.8	278.4	278.1	277.7	277.3	277.0
135°	297.6	298.1	298.3	298.4	298.6	298.8	298.7	298.6	298.5	298.4	298.3
137.5°	317.0	317.5	317.8	318.1	318.2	318.5	318.4	318.3	318.2	318.2	318.0
140°	329.2	329.8	330.3	330.7	331.1	331.6	331.6	331.6	331.6	331.6	331.4
142.5°	341.7	342.2	342.5	342.9	343.1	343.5	343.5	343.5	343.6	343.7	343.5
145°	359.0	359.6	360.1	360.6	361.1	361.6	361.7	361.8	361.9	362.0	361.8
147.5°	375.5	376.0	376.3	376.7	377.0	377.4	377.5	377.7	378.0	378.2	378.1
150°	385.6	386.0	386.3	386.7	387.0	387.4	387.6	387.9	388.1	388.4	388.4
152.5°	395.2	395.7	396.1	396.5	396.9	397.4	397.7	398.0	398.3	398.6	398.6
155°	408.7	409.0	409.2	409.5	409.7	410.0	410.4	410.9	411.3	411.7	411.8
157.5°	420.8	420.9	421.0	421.2	421.4	421.5	422.1	422.7	423.3	423.9	424.0
160°	428.3	428.3	428.4	428.5	428.6	428.7	429.2	429.7	430.2	430.8	430.8
162.5°	434.5	434.6	434.7	434.8	434.9	435.0	435.5	436.1	436.7	437.3	437.4
165°	443.2	443.2	443.2	443.2	443.2	443.2	443.8	444.4	445.0	445.6	445.7
167.5°	450.1	450.0	450.0	450.0	450.0	450.0	450.6	451.2	451.8	452.4	452.5
170°	454.2	454.0	453.9	453.8	453.7	453.7	454.3	454.9	455.5	456.1	456.2
172.5°	457.0	456.8	456.8	456.7	456.6	456.5	457.1	457.7	458.3	458.9	458.9
175°	460.5	460.2	460.0	459.9	459.7	459.5	460.1	460.7	461.3	461.9	462.0
177.5°	462.0	461.8	461.8	461.6	461.4	461.3	461.8	462.2	462.5	463.0	463.0
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331496-935

CATALOG NUMBER: S122DIW-S485D435U935-4F0-1E-UDD-A1

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°	5.2	4.9	4.9	4.7	4.9	4.9	5.2	5.2	5.2	5.7	5.8
90°	13.0	13.1	13.2	13.3	13.2	13.1	13.0	12.9	13.0	13.2	13.3
92.5°	12.6	12.6	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5
95°	24.7	24.5	24.4	24.2	24.4	24.5	24.7	24.9	25.0	25.0	25.0
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
100°	53.7	53.6	53.6	53.5	53.6	53.6	53.7	53.8	53.8	53.8	53.8
102.5°	66.8	66.7	66.6	66.6	66.6	66.7	66.8	66.9	66.9	66.8	66.7
105°	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.5	86.4	86.2
107.5°	106.7	106.2	105.9	105.5	105.9	106.2	106.7	107.1	107.3	107.2	107.1
110°	120.9	120.6	120.4	120.1	120.4	120.6	120.9	121.1	121.3	121.3	121.3



TEST NUMBER: P331496-935

CATALOG NUMBER: S122DIW-S485D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	134.7	134.6	134.4	134.2	134.4	134.6	134.7	134.9	135.2	135.3	135.6
115°	156.8	156.5	156.3	156.0	156.3	156.5	156.8	157.0	157.2	157.3	157.4
117.5°	177.6	177.4	177.1	176.8	177.1	177.4	177.6	177.9	178.1	178.3	178.6
120°	192.3	192.1	191.8	191.6	191.8	192.1	192.3	192.6	192.7	192.7	192.7
122.5°	206.5	206.3	206.0	205.9	206.0	206.3	206.5	206.6	206.8	207.1	207.2
125°	228.1	228.0	227.9	227.8	227.9	228.0	228.1	228.2	228.3	228.6	228.9
127.5°	248.6	248.3	248.1	247.8	248.1	248.3	248.6	248.9	249.2	249.5	249.8
130°	263.2	262.9	262.5	262.2	262.5	262.9	263.2	263.6	263.8	264.0	264.2
132.5°	276.7	276.4	276.1	275.9	276.1	276.4	276.7	277.0	277.3	277.7	278.1
135°	298.0	297.7	297.5	297.2	297.5	297.7	298.0	298.3	298.4	298.5	298.6
137.5°	317.6	317.3	316.9	316.6	316.9	317.3	317.6	318.0	318.2	318.2	318.3
140°	331.1	330.7	330.4	330.0	330.4	330.7	331.1	331.4	331.6	331.6	331.6
142.5°	343.2	342.9	342.5	342.2	342.5	342.9	343.2	343.5	343.7	343.6	343.5
145°	361.4	361.1	360.8	360.4	360.8	361.1	361.4	361.8	362.0	361.9	361.8
147.5°	377.7	377.4	377.0	376.8	377.0	377.4	377.7	378.1	378.2	378.0	377.7
150°	388.1	387.9	387.6	387.4	387.6	387.9	388.1	388.4	388.4	388.1	387.9
152.5°	398.3	398.0	397.7	397.4	397.7	398.0	398.3	398.6	398.6	398.3	398.0
155°	411.6	411.3	411.0	410.8	411.0	411.3	411.6	411.8	411.7	411.3	410.9
157.5°	423.5	423.1	422.8	422.3	422.8	423.1	423.5	424.0	423.9	423.3	422.7
160°	430.5	430.2	429.8	429.5	429.8	430.2	430.5	430.8	430.8	430.2	429.7
162.5°	437.0	436.5	436.1	435.8	436.1	436.5	437.0	437.4	437.3	436.7	436.1
165°	445.2	444.8	444.4	443.9	444.4	444.8	445.2	445.7	445.6	445.0	444.4
167.5°	451.9	451.5	451.1	450.6	451.1	451.5	451.9	452.5	452.4	451.8	451.2
170°	455.6	455.1	454.6	454.1	454.6	455.1	455.6	456.2	456.1	455.5	454.9
172.5°	458.4	457.9	457.4	456.8	457.4	457.9	458.4	458.9	458.9	458.3	457.7
175°	461.5	461.0	460.5	459.9	460.5	461.0	461.5	462.0	461.9	461.3	460.7
177.5°	462.5	462.2	461.8	461.3	461.8	462.2	462.5	463.0	463.0	462.5	462.2
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331496-935

CATALOG NUMBER: S122DIW-S485D435U935-4F0-1E-UDD-A1

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°	5.8	6.1	5.9	5.9	5.4	5.3	5.3	5.3	5.6	5.7	5.8
90°	13.5	13.7	11.7	9.8	7.9	6.0	4.6	3.5	2.5	1.5	0.4
92.5°	12.4	12.4	12.0	11.5	11.0	10.6	10.0	9.2	8.4	7.7	7.0
95°	25.0	25.0	24.8	24.6	24.5	24.3	23.8	22.9	22.0	21.2	20.3
97.5°	41.9	41.9	41.7	41.3	41.0	40.6	40.1	39.3	38.6	37.8	37.0
100°	53.8	53.8	53.6	53.3	53.0	52.8	52.3	51.7	50.9	50.2	49.5
102.5°	66.7	66.6	66.3	66.0	65.6	65.3	64.8	64.3	63.7	63.2	62.7
105°	86.0	85.8	85.7	85.5	85.3	85.2	84.9	84.6	84.4	84.1	83.9
107.5°	107.0	106.9	106.9	106.9	106.9	106.9	106.8	106.4	106.0	105.6	105.2
110°	121.3	121.3	121.3	121.3	121.3	121.3	121.1	120.5	120.0	119.5	119.0



TEST NUMBER: P331496-935

CATALOG NUMBER: S122DIW-S485D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	135.8	136.0	136.0	136.1	136.2	136.3	136.0	135.5	135.0	134.5	134.0
115°	157.5	157.6	157.7	157.9	158.1	158.3	158.1	157.6	157.0	156.5	156.0
117.5°	178.7	179.0	179.4	179.9	180.5	180.9	180.8	180.1	179.4	178.7	178.1
120°	192.7	192.7	193.4	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7
122.5°	207.5	207.7	208.2	208.6	209.1	209.7	209.5	208.6	207.8	207.0	206.1
125°	229.1	229.4	229.6	229.9	230.1	230.4	230.1	229.4	228.6	227.8	227.0
127.5°	250.1	250.5	250.7	251.1	251.4	251.7	251.3	250.4	249.3	248.4	247.4
130°	264.3	264.5	264.7	264.8	265.0	265.2	264.7	263.6	262.4	261.3	260.2
132.5°	278.4	278.8	278.8	278.8	278.7	278.7	278.2	277.3	276.4	275.4	274.6
135°	298.7	298.8	298.6	298.4	298.3	298.1	297.6	296.6	295.7	294.7	293.8
137.5°	318.4	318.5	318.2	318.1	317.8	317.5	317.0	316.2	315.5	314.7	313.9
140°	331.6	331.6	331.1	330.7	330.3	329.8	329.2	328.5	327.7	326.9	326.1
142.5°	343.5	343.5	343.1	342.9	342.5	342.2	341.7	341.0	340.2	339.4	338.6
145°	361.7	361.6	361.1	360.6	360.1	359.6	359.0	358.3	357.7	357.1	356.5
147.5°	377.5	377.4	377.0	376.7	376.3	376.0	375.5	374.7	374.0	373.2	372.6
150°	387.6	387.4	387.0	386.7	386.3	386.0	385.6	385.0	384.5	384.0	383.5
152.5°	397.7	397.4	396.9	396.5	396.1	395.7	395.2	394.7	394.2	393.6	393.1
155°	410.4	410.0	409.7	409.5	409.2	409.0	408.7	408.5	408.1	407.9	407.6
157.5°	422.1	421.5	421.4	421.2	421.0	420.9	420.8	420.6	420.4	420.3	420.1
160°	429.2	428.7	428.6	428.5	428.4	428.3	428.3	428.1	427.9	427.7	427.6
162.5°	435.5	435.0	434.9	434.8	434.7	434.6	434.5	434.5	434.5	434.5	434.4
165°	443.8	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.3	443.4	443.5
167.5°	450.6	450.0	450.0	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.2
170°	454.3	453.7	453.7	453.8	453.9	454.0	454.2	454.4	454.7	455.0	455.2
172.5°	457.1	456.5	456.6	456.7	456.8	456.8	457.0	457.3	457.5	457.8	458.1
175°	460.1	459.5	459.7	459.9	460.0	460.2	460.5	460.7	461.0	461.2	461.5
177.5°	461.8	461.3	461.4	461.6	461.8	461.8	462.0	462.3	462.4	462.7	462.9
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331496-935

CATALOG NUMBER: S122DIW-S485D435U935-4F0-1E-UDD-A1

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	7.9	8.2	9.1	9.0	9.3	9.6	9.8	9.9	9.6	9.4
90°	1.5	2.5	3.5	4.6	6.0	7.9	9.8	11.7	13.7	13.5	13.3
92.5°	7.7	8.4	9.2	10.0	10.6	11.0	11.5	12.0	12.4	12.4	12.5
95°	21.2	22.0	22.9	23.8	24.3	24.5	24.6	24.8	25.0	25.0	25.0
97.5°	37.8	38.6	39.3	40.1	40.6	41.0	41.3	41.7	41.9	41.9	41.9
100°	50.2	50.9	51.7	52.3	52.8	53.0	53.3	53.6	53.8	53.8	53.8
102.5°	63.2	63.7	64.3	64.8	65.3	65.6	66.0	66.3	66.6	66.7	66.7
105°	84.1	84.4	84.6	84.9	85.2	85.3	85.5	85.7	85.8	86.0	86.2
107.5°	105.6	106.0	106.4	106.8	106.9	106.9	106.9	106.9	106.9	107.0	107.1
110°	119.5	120.0	120.5	121.1	121.3	121.3	121.3	121.3	121.3	121.3	121.3



TEST NUMBER: P331496-935

CATALOG NUMBER: S122DIW-S485D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.5	135.0	135.5	136.0	136.3	136.2	136.1	136.0	136.0	135.8	135.6
115°	156.5	157.0	157.6	158.1	158.3	158.1	157.9	157.7	157.6	157.5	157.4
117.5°	178.7	179.4	180.1	180.8	180.9	180.5	179.9	179.4	179.0	178.7	178.6
120°	193.4	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7	192.7	192.7
122.5°	207.0	207.8	208.6	209.5	209.7	209.1	208.6	208.2	207.7	207.5	207.2
125°	227.8	228.6	229.4	230.1	230.4	230.1	229.9	229.6	229.4	229.1	228.9
127.5°	248.4	249.3	250.4	251.3	251.7	251.4	251.1	250.7	250.5	250.1	249.8
130°	261.3	262.4	263.6	264.7	265.2	265.0	264.8	264.7	264.5	264.3	264.2
132.5°	275.4	276.4	277.3	278.2	278.7	278.7	278.8	278.8	278.8	278.4	278.1
135°	294.7	295.7	296.6	297.6	298.1	298.3	298.4	298.6	298.8	298.7	298.6
137.5°	314.7	315.5	316.2	317.0	317.5	317.8	318.1	318.2	318.5	318.4	318.3
140°	326.9	327.7	328.5	329.2	329.8	330.3	330.7	331.1	331.6	331.6	331.6
142.5°	339.4	340.2	341.0	341.7	342.2	342.5	342.9	343.1	343.5	343.5	343.5
145°	357.1	357.7	358.3	359.0	359.6	360.1	360.6	361.1	361.6	361.7	361.8
147.5°	373.2	374.0	374.7	375.5	376.0	376.3	376.7	377.0	377.4	377.5	377.7
150°	384.0	384.5	385.0	385.6	386.0	386.3	386.7	387.0	387.4	387.6	387.9
152.5°	393.6	394.2	394.7	395.2	395.7	396.1	396.5	396.9	397.4	397.7	398.0
155°	407.9	408.1	408.5	408.7	409.0	409.2	409.5	409.7	410.0	410.4	410.9
157.5°	420.3	420.4	420.6	420.8	420.9	421.0	421.2	421.4	421.5	422.1	422.7
160°	427.7	427.9	428.1	428.3	428.3	428.4	428.5	428.6	428.7	429.2	429.7
162.5°	434.5	434.5	434.5	434.5	434.6	434.7	434.8	434.9	435.0	435.5	436.1
165°	443.4	443.3	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.8	444.4
167.5°	450.9	450.6	450.4	450.1	450.0	450.0	450.0	450.0	450.0	450.6	451.2
170°	455.0	454.7	454.4	454.2	454.0	453.9	453.8	453.7	453.7	454.3	454.9
172.5°	457.8	457.5	457.3	457.0	456.8	456.8	456.7	456.6	456.5	457.1	457.7
175°	461.2	461.0	460.7	460.5	460.2	460.0	459.9	459.7	459.5	460.1	460.7
177.5°	462.7	462.4	462.3	462.0	461.8	461.8	461.6	461.4	461.3	461.8	462.2
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



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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°	9.6	9.6	9.3	9.3	9.6	9.3	9.3
90°	13.2	13.0	12.9	13.0	13.1	13.2	13.3
92.5°	12.5	12.6	12.6	12.6	12.6	12.7	12.7
95°	25.0	25.0	24.9	24.7	24.5	24.4	24.2
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9
100°	53.8	53.8	53.8	53.7	53.6	53.6	53.5
102.5°	66.8	66.9	66.9	66.8	66.7	66.6	66.6
105°	86.4	86.5	86.6	86.6	86.6	86.6	86.6
107.5°	107.2	107.3	107.1	106.7	106.2	105.9	105.5
110°	121.3	121.3	121.1	120.9	120.6	120.4	120.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	135.3	135.2	134.9	134.7	134.6	134.4	134.2
115°	157.3	157.2	157.0	156.8	156.5	156.3	156.0
117.5°	178.3	178.1	177.9	177.6	177.4	177.1	176.8
120°	192.7	192.7	192.6	192.3	192.1	191.8	191.6
122.5°	207.1	206.8	206.6	206.5	206.3	206.0	205.9
125°	228.6	228.3	228.2	228.1	228.0	227.9	227.8
127.5°	249.5	249.2	248.9	248.6	248.3	248.1	247.8
130°	264.0	263.8	263.6	263.2	262.9	262.5	262.2
132.5°	277.7	277.3	277.0	276.7	276.4	276.1	275.9
135°	298.5	298.4	298.3	298.0	297.7	297.5	297.2
137.5°	318.2	318.2	318.0	317.6	317.3	316.9	316.6
140°	331.6	331.6	331.4	331.1	330.7	330.4	330.0
142.5°	343.6	343.7	343.5	343.2	342.9	342.5	342.2
145°	361.9	362.0	361.8	361.4	361.1	360.8	360.4
147.5°	378.0	378.2	378.1	377.7	377.4	377.0	376.8
150°	388.1	388.4	388.4	388.1	387.9	387.6	387.4
152.5°	398.3	398.6	398.6	398.3	398.0	397.7	397.4
155°	411.3	411.7	411.8	411.6	411.3	411.0	410.8
157.5°	423.3	423.9	424.0	423.5	423.1	422.8	422.3
160°	430.2	430.8	430.8	430.5	430.2	429.8	429.5
162.5°	436.7	437.3	437.4	437.0	436.5	436.1	435.8
165°	445.0	445.6	445.7	445.2	444.8	444.4	443.9
167.5°	451.8	452.4	452.5	451.9	451.5	451.1	450.6
170°	455.5	456.1	456.2	455.6	455.1	454.6	454.1
172.5°	458.3	458.9	458.9	458.4	457.9	457.4	456.8
175°	461.3	461.9	462.0	461.5	461.0	460.5	459.9
177.5°	462.5	463.0	463.0	462.5	462.2	461.8	461.3
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3

(END OF REPORT)