

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: P331502-940

Luminaire Tested: **S122DIW-S485D710U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331502-940
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-S485D710U940-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4107.3 lumens
Efficiency: N/A
Efficacy: 109.2 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

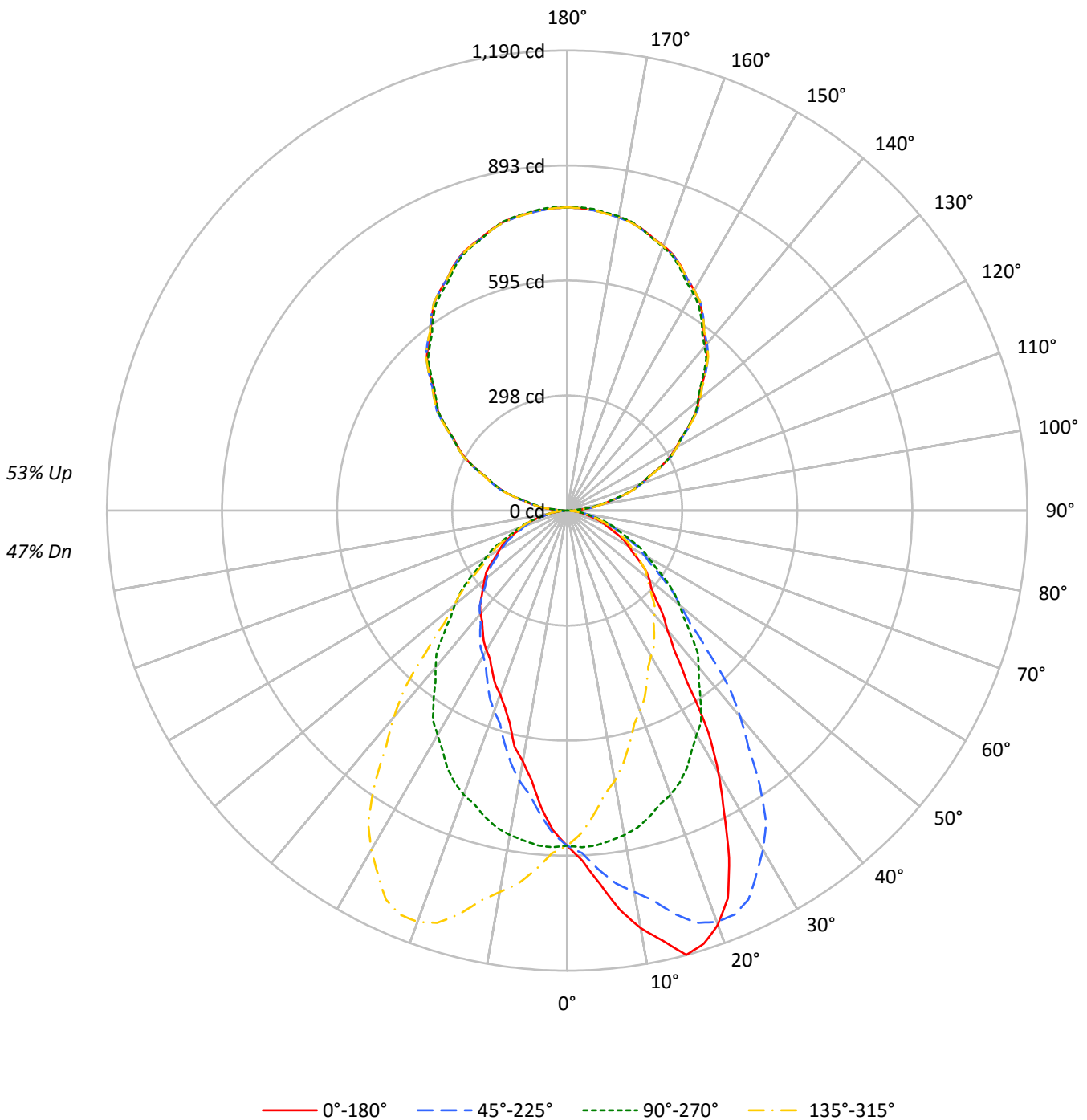
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47					47			
1	97	93	90	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40					40			
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	42	41	39	34					34			
3	82	72	65	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30					30			
4	75	64	57	51	69	60	53	48	50	45	41	42	38	35	34	32	29	26					26			
5	69	58	50	44	63	53	46	41	45	40	36	38	34	31	31	28	26	23					23			
6	64	52	44	38	58	48	41	36	41	36	32	34	30	27	28	25	23	20					20			
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18					18			
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16					16			
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15					15			
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14					14			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13990	13990	13990	13990
5°	15686	14083	12478	14083
10°	17974	13967	10799	13967
15°	19883	13710	9541	13710
20°	19581	13435	8698	13435
25°	17655	13069	8165	13069
30°	14590	12486	7774	12486
35°	10634	11874	7496	11874
40°	8494	11152	7341	11152
45°	7421	10319	7133	10319
50°	6978	9510	6993	9510
55°	6432	8690	6804	8690
60°	5893	7818	6516	7818
65°	5368	7033	6235	7033
70°	4877	6274	5816	6274
75°	4323	5421	5153	5421
80°	3710	4491	4147	4491
85°	3335	3335	2464	3335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	2.0
10°-20°	239.9	5.8
20°-30°	348.2	8.5
30°-40°	367.4	8.9
40°-50°	325.3	7.9
50°-60°	259.6	6.3
60°-70°	176.5	4.3
70°-80°	90.5	2.2
80°-90°	24.9	0.6
90°-100°	49.7	1.2
100°-110°	154.3	3.8
110°-120°	263.8	6.4
120°-130°	346.9	8.4
130°-140°	389.3	9.5
140°-150°	381.7	9.3
150°-160°	320.2	7.8
160°-170°	212.4	5.2
170°-180°	74.2	1.8
0°-30°	670.6	16.3
0°-40°	1038.0	25.3
0°-60°	1623.0	39.5
0°-90°	1914.8	46.6
90°-120°	467.8	11.4
90°-150°	1585.7	38.6
90°-180°	2193.0	53.4
0°-180°	4107.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	866	866	866	866	866	
5°	968	869	770	869	968	97
15°	1190	820	571	820	1190	328
25°	991	734	458	734	991	448
35°	540	602	380	602	540	351
45°	325	452	312	452	325	256
55°	228	309	242	309	228	205
65°	140	184	163	184	140	140
75°	69	87	83	87	69	74
85°	18	18	13	18	18	20
90°	22	1	22	1	22	11
95°	41	34	41	34	41	46
105°	147	142	147	142	147	155
115°	265	265	265	265	265	261
125°	386	385	386	385	386	345
135°	504	498	504	498	504	388
145°	611	605	611	605	611	382
155°	697	691	697	691	697	321
165°	753	752	753	752	753	212
175°	780	783	780	783	780	74
180°	784	784	784	784	784	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	906.5	906.8	907.2	903.0	902.5	902.5	898.8	895.5	891.8	886.7	887.3
5°	967.8	971.4	972.8	968.8	962.8	962.1	956.4	947.1	938.4	931.5	926.5
7.5°	1040.9	1042.3	1039.1	1033.8	1029.4	1021.4	1010.8	1000.5	986.1	972.8	963.0
10°	1096.3	1098.3	1092.6	1084.9	1078.6	1069.3	1054.0	1038.3	1019.4	1001.0	986.4
12.5°	1138.4	1143.4	1136.0	1135.1	1124.2	1111.4	1093.1	1085.2	1058.5	1033.0	1017.3
15°	1189.5	1189.2	1189.9	1183.6	1175.5	1173.6	1154.2	1133.3	1095.6	1080.7	1054.6
17.5°	1174.7	1179.8	1182.1	1182.1	1181.9	1180.6	1174.4	1161.2	1142.3	1118.0	1088.1
20°	1139.6	1146.2	1147.3	1154.9	1159.2	1164.9	1167.2	1163.6	1151.9	1131.6	1105.6
22.5°	1085.2	1087.1	1090.2	1102.2	1111.5	1125.7	1133.1	1145.4	1140.9	1131.0	1109.4
25°	991.0	987.7	999.3	1005.4	1027.0	1049.6	1066.0	1084.0	1099.9	1109.6	1103.3
27.5°	878.0	873.0	890.5	906.3	923.9	948.4	973.8	1003.9	1028.9	1060.2	1070.9
30°	782.6	785.6	802.3	819.2	845.9	880.5	909.1	942.1	977.8	1012.7	1037.0
32.5°	679.8	691.3	701.8	727.8	751.3	789.9	831.9	873.1	917.6	957.3	994.9
35°	539.5	552.8	567.5	586.5	619.4	657.7	698.7	754.3	814.9	869.2	913.8
37.5°	454.1	452.0	460.4	474.1	500.8	531.7	578.8	633.8	705.2	768.9	831.9
40°	403.0	401.6	407.6	420.3	440.6	463.2	504.5	552.8	619.1	697.0	772.0
42.5°	367.7	368.5	371.9	380.8	394.8	413.4	444.3	485.4	546.1	619.5	700.0
45°	325.0	327.3	331.0	335.4	343.3	358.6	375.9	405.3	453.3	514.5	593.8
47.5°	294.3	294.4	298.0	301.8	306.6	315.2	329.4	347.8	381.6	431.5	499.6
50°	277.8	275.4	278.0	281.1	286.1	292.0	301.4	318.7	341.3	381.7	438.5
52.5°	257.5	257.5	259.9	261.1	265.6	271.5	280.1	292.0	312.5	344.1	390.9
55°	228.5	230.2	231.5	233.4	237.5	241.7	248.4	256.5	272.4	296.0	330.6
57.5°	201.2	201.7	203.0	206.8	209.4	213.3	219.6	226.9	237.3	254.9	280.9
60°	182.5	182.5	185.1	186.8	190.1	194.1	199.1	206.2	215.4	229.8	250.7
62.5°	165.4	165.1	166.2	169.0	171.5	175.2	180.2	186.2	194.9	207.7	224.9
65°	140.5	139.9	141.9	142.5	145.2	148.8	152.8	159.2	166.2	175.5	190.8
67.5°	116.5	117.3	118.4	119.7	121.2	125.0	127.7	132.2	138.0	145.8	156.2
70°	103.3	103.3	103.3	104.2	106.2	108.3	110.9	114.6	120.2	126.9	136.2
72.5°	88.3	89.3	90.4	89.9	92.4	93.5	96.8	98.8	104.2	108.5	116.7
75°	69.3	69.3	69.3	70.9	72.0	72.9	74.9	77.0	79.6	84.9	89.3
77.5°	51.7	51.5	51.9	52.3	53.3	54.6	55.1	57.0	59.4	61.9	65.5
80°	39.9	40.7	40.9	41.6	41.6	42.3	42.6	44.9	46.6	48.3	50.6
82.5°	30.9	31.0	31.1	31.2	31.5	31.9	32.7	33.5	34.1	35.5	37.3
85°	18.0	17.7	17.7	18.3	18.0	18.0	18.6	19.4	19.4	19.6	20.7
87.5°	11.4	11.4	11.6	11.3	11.3	11.6	11.7	11.4	11.8	12.1	11.7
90°	22.5	22.4	22.2	22.0	21.9	22.0	22.3	22.6	22.8	23.2	19.9
92.5°	21.4	21.4	21.4	21.3	21.3	21.3	21.2	21.1	21.1	21.0	20.2
95°	41.0	41.3	41.6	41.9	42.2	42.4	42.4	42.4	42.4	42.4	42.1
97.5°	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	70.6
100°	90.7	90.8	91.0	91.1	91.2	91.3	91.3	91.3	91.3	91.3	90.9
102.5°	112.9	113.1	113.2	113.3	113.5	113.5	113.3	113.2	113.2	113.0	112.4
105°	146.9	146.9	146.9	146.9	146.9	146.8	146.4	146.2	145.9	145.6	145.3
107.5°	179.0	179.6	180.3	180.9	181.6	181.9	181.8	181.6	181.6	181.5	181.5
110°	203.8	204.2	204.6	205.1	205.5	205.8	205.8	205.8	205.8	205.8	205.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	227.7	227.9	228.3	228.6	228.9	229.3	229.6	230.0	230.3	230.7	230.8
115°	264.7	265.1	265.6	266.0	266.4	266.7	266.9	267.1	267.2	267.3	267.6
117.5°	300.0	300.4	300.9	301.3	301.8	302.2	302.6	302.9	303.3	303.6	304.4
120°	324.9	325.3	325.7	326.2	326.6	326.9	326.9	326.9	326.9	326.9	328.1
122.5°	349.3	349.6	349.9	350.2	350.5	350.9	351.2	351.6	352.0	352.3	353.1
125°	386.5	386.6	386.7	386.9	387.0	387.3	387.7	388.2	388.6	389.1	389.5
127.5°	420.4	420.8	421.2	421.7	422.2	422.7	423.2	423.7	424.3	424.8	425.3
130°	444.7	445.2	445.9	446.4	447.0	447.5	447.7	448.1	448.4	448.6	448.9
132.5°	468.0	468.4	468.9	469.4	469.8	470.4	471.0	471.7	472.3	473.0	473.0
135°	504.2	504.6	505.1	505.5	506.0	506.3	506.4	506.6	506.7	506.8	506.6
137.5°	537.0	537.6	538.2	538.8	539.4	539.8	539.8	539.9	540.1	540.2	539.8
140°	559.8	560.4	561.0	561.6	562.1	562.4	562.4	562.4	562.4	562.4	561.7
142.5°	580.4	581.0	581.6	582.2	582.8	583.0	582.9	582.8	582.6	582.6	582.0
145°	611.4	612.0	612.6	613.1	613.8	613.9	613.9	613.7	613.5	613.4	612.5
147.5°	639.1	639.6	640.2	640.8	641.3	641.4	641.1	640.8	640.4	640.2	639.5
150°	657.1	657.5	657.9	658.4	658.8	658.8	658.4	657.9	657.5	657.1	656.5
152.5°	674.0	674.6	675.1	675.6	676.3	676.3	675.6	675.1	674.6	674.0	673.3
155°	696.8	697.2	697.7	698.1	698.6	698.4	697.7	696.9	696.2	695.4	695.0
157.5°	716.3	717.0	717.7	718.5	719.2	719.0	718.0	717.0	716.0	715.1	714.8
160°	728.5	729.2	729.7	730.3	730.8	730.8	729.9	729.0	728.1	727.2	727.0
162.5°	739.1	739.9	740.6	741.2	741.9	741.8	740.8	739.8	738.8	737.8	737.6
165°	753.0	753.8	754.5	755.2	756.0	755.8	754.7	753.8	752.7	751.7	751.7
167.5°	764.4	765.2	765.9	766.7	767.4	767.3	766.2	765.3	764.2	763.2	763.2
170°	770.2	771.1	772.0	772.8	773.7	773.6	772.7	771.6	770.6	769.5	769.7
172.5°	775.0	775.9	776.8	777.7	778.5	778.5	777.4	776.4	775.3	774.3	774.5
175°	780.2	781.0	781.9	782.7	783.6	783.6	782.6	781.5	780.5	779.4	779.8
177.5°	782.5	783.2	783.9	784.6	785.3	785.3	784.6	783.9	783.2	782.5	782.7
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	889.1	887.0	885.6	880.9	876.6	872.4	871.0	871.6	865.7	860.1	857.7
5°	923.8	917.1	910.8	901.8	891.2	879.5	873.5	868.9	857.2	844.5	837.2
7.5°	954.8	945.3	933.1	916.2	900.7	882.3	870.7	860.4	843.3	825.5	814.6
10°	973.7	960.7	945.1	924.4	905.4	883.2	867.5	851.9	831.9	810.6	797.3
12.5°	990.0	972.5	957.1	930.6	908.1	880.2	861.7	839.6	818.6	793.3	780.2
15°	1028.7	996.4	967.1	937.1	909.5	870.5	849.9	820.2	792.6	761.3	746.3
17.5°	1058.5	1022.3	976.2	938.1	905.8	862.6	832.3	796.8	764.1	728.3	708.0
20°	1075.7	1034.0	984.4	939.1	900.4	851.2	818.2	781.9	743.6	703.3	681.4
22.5°	1085.7	1042.1	992.9	935.1	889.8	841.9	800.4	760.6	721.8	678.3	655.2
25°	1089.0	1049.0	997.0	931.7	876.5	822.2	772.2	733.6	686.7	646.0	612.4
27.5°	1073.1	1044.5	994.5	925.5	861.1	797.6	742.0	698.2	648.6	604.6	570.7
30°	1053.6	1037.0	988.4	919.1	848.8	780.6	719.3	669.7	620.5	575.8	541.2
32.5°	1023.6	1019.9	977.2	910.1	835.8	759.0	695.6	645.4	590.8	547.0	514.0
35°	964.4	980.4	953.4	889.8	811.2	728.3	659.7	602.4	545.8	503.8	472.9
37.5°	885.2	924.9	917.8	860.1	778.0	694.9	619.1	559.3	505.3	463.0	432.6
40°	830.5	881.2	888.5	837.5	754.7	669.1	588.8	529.1	476.5	437.9	407.2
42.5°	772.0	831.1	851.2	810.4	729.1	641.9	561.6	499.9	447.8	410.2	383.1
45°	673.7	752.0	788.3	764.9	686.3	597.1	514.5	451.9	404.7	369.3	348.3
47.5°	581.8	667.4	716.2	707.9	638.8	550.5	468.9	408.8	362.7	334.6	315.8
50°	516.8	604.8	663.7	666.4	604.8	517.2	435.2	378.6	336.4	310.0	294.7
52.5°	460.4	544.3	608.6	622.7	566.7	482.5	405.1	348.8	311.6	287.4	273.7
55°	386.6	457.5	528.9	554.8	509.9	429.9	358.3	308.7	273.8	257.1	245.1
57.5°	321.5	380.6	446.4	475.1	447.4	379.0	311.8	268.8	240.4	225.8	216.6
60°	287.0	333.7	392.3	426.6	402.6	341.7	283.0	242.1	218.8	205.8	197.2
62.5°	255.1	296.4	345.9	377.3	364.3	306.7	254.3	218.1	198.0	185.8	179.6
65°	210.4	243.1	281.4	310.4	301.8	258.1	215.2	184.1	168.2	158.5	153.6
67.5°	173.3	196.9	223.5	248.8	241.8	210.9	176.5	152.3	140.4	132.1	129.1
70°	149.9	167.8	191.5	211.8	206.2	180.8	153.6	132.9	122.5	115.6	112.5
72.5°	127.5	142.2	160.3	176.9	173.1	152.0	129.3	113.7	105.8	99.3	96.8
75°	96.2	107.5	118.6	129.6	128.6	112.3	98.9	86.9	80.6	75.6	74.6
77.5°	71.1	77.4	84.9	91.4	89.6	80.3	69.8	63.0	58.3	54.9	54.4
80°	54.3	58.0	63.3	67.9	65.6	61.6	53.3	48.3	44.9	41.6	40.3
82.5°	39.3	43.1	46.2	48.8	47.0	43.2	38.1	34.7	32.7	30.4	29.9
85°	20.7	22.6	24.0	24.6	24.0	21.7	19.4	18.0	16.3	15.3	15.0
87.5°	11.3	10.7	10.1	10.1	8.9	8.6	7.1	6.0	6.1	6.2	6.0
90°	16.7	13.5	10.3	7.8	6.0	4.2	2.4	0.6	2.4	4.2	6.0
92.5°	19.5	18.7	18.0	16.9	15.7	14.4	13.1	11.8	13.1	14.4	15.7
95°	41.7	41.5	41.2	40.3	38.8	37.4	35.8	34.4	35.8	37.4	38.8
97.5°	70.1	69.6	68.9	68.0	66.7	65.5	64.1	62.9	64.1	65.5	66.7
100°	90.4	90.0	89.5	88.7	87.6	86.4	85.2	84.0	85.2	86.4	87.6
102.5°	111.9	111.4	110.8	110.0	109.1	108.2	107.2	106.3	107.2	108.2	109.1
105°	145.0	144.7	144.4	144.0	143.6	143.1	142.7	142.2	142.7	143.1	143.6
107.5°	181.5	181.5	181.5	181.1	180.5	179.9	179.1	178.5	179.1	179.9	180.5
110°	205.8	205.8	205.8	205.4	204.5	203.6	202.7	201.8	202.7	203.6	204.5



TEST NUMBER: P331502-940

CATALOG NUMBER: S122DIW-S485D710U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	230.9	231.0	231.1	230.8	229.9	229.0	228.1	227.2	228.1	229.0	229.9
115°	267.9	268.2	268.5	268.2	267.3	266.4	265.6	264.7	265.6	266.4	267.3
117.5°	305.2	306.0	306.8	306.7	305.5	304.3	303.2	302.0	303.2	304.3	305.5
120°	329.2	330.4	331.5	331.5	330.4	329.2	328.1	326.9	328.1	329.2	330.4
122.5°	353.9	354.7	355.6	355.3	353.8	352.5	351.1	349.6	351.1	352.5	353.8
125°	389.9	390.4	390.8	390.4	389.1	387.7	386.5	385.1	386.5	387.7	389.1
127.5°	425.9	426.4	427.0	426.3	424.6	423.0	421.3	419.6	421.3	423.0	424.6
130°	449.2	449.5	449.8	449.0	447.1	445.1	443.3	441.3	443.3	445.1	447.1
132.5°	472.9	472.8	472.8	471.9	470.4	468.9	467.3	465.7	467.3	468.9	470.4
135°	506.3	506.0	505.7	504.7	503.1	501.5	499.9	498.3	499.9	501.5	503.1
137.5°	539.5	539.0	538.7	537.8	536.5	535.2	533.9	532.5	533.9	535.2	536.5
140°	561.0	560.3	559.5	558.5	557.1	555.8	554.5	553.2	554.5	555.8	557.1
142.5°	581.6	581.0	580.6	579.6	578.4	577.0	575.7	574.4	575.7	577.0	578.4
145°	611.6	610.7	609.8	608.9	607.9	606.8	605.8	604.8	605.8	606.8	607.9
147.5°	638.9	638.4	637.8	636.9	635.6	634.4	633.1	632.0	633.1	634.4	635.6
150°	655.9	655.3	654.7	654.0	653.1	652.2	651.3	650.4	651.3	652.2	653.1
152.5°	672.6	671.9	671.2	670.4	669.5	668.6	667.7	666.8	667.7	668.6	669.5
155°	694.6	694.1	693.7	693.2	692.8	692.3	691.9	691.4	691.9	692.3	692.8
157.5°	714.5	714.3	714.0	713.7	713.4	713.1	712.8	712.5	712.8	713.1	713.4
160°	726.9	726.7	726.7	726.4	726.1	725.8	725.5	725.2	725.5	725.8	726.1
162.5°	737.5	737.4	737.2	737.1	737.0	737.0	736.9	736.8	736.9	737.0	737.0
165°	751.7	751.7	751.7	751.8	751.9	752.1	752.2	752.3	752.2	752.1	751.9
167.5°	763.2	763.3	763.3	763.6	764.0	764.5	764.9	765.4	764.9	764.5	764.0
170°	769.8	770.0	770.2	770.4	770.9	771.3	771.8	772.2	771.8	771.3	770.9
172.5°	774.6	774.7	774.9	775.2	775.6	776.1	776.5	776.9	776.5	776.1	775.6
175°	780.1	780.3	780.7	781.0	781.5	781.9	782.4	782.7	782.4	781.9	781.5
177.5°	783.0	783.2	783.5	783.7	784.1	784.4	784.8	785.2	784.8	784.4	784.1
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



TEST NUMBER: P331502-940

CATALOG NUMBER: S122DIW-S485D710U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	855.1	853.5	847.8	844.9	840.2	835.6	832.7	834.0	835.1	834.6	833.7
5°	830.5	824.2	814.6	806.2	800.2	789.3	784.6	782.3	780.2	777.9	775.6
7.5°	801.4	791.4	777.6	765.7	754.5	740.8	733.1	728.3	723.5	718.3	713.6
10°	780.6	766.6	752.0	735.3	722.0	709.6	698.7	691.3	684.7	678.3	673.7
12.5°	758.8	742.6	724.5	701.8	687.1	669.4	667.8	654.9	644.4	640.5	635.1
15°	724.0	701.3	678.3	651.4	639.7	623.8	613.8	603.8	594.8	588.4	586.7
17.5°	684.5	655.1	632.3	613.0	593.9	577.5	568.3	560.3	552.9	544.4	543.3
20°	654.3	629.1	604.1	587.1	567.5	550.8	539.5	531.5	525.1	520.1	515.9
22.5°	625.9	598.2	575.3	556.7	537.3	523.9	515.0	507.3	502.0	496.5	492.4
25°	580.1	558.5	533.5	512.6	496.5	487.9	480.5	473.9	470.6	466.9	462.3
27.5°	540.1	516.0	492.7	476.4	462.4	454.7	449.5	445.0	441.8	439.7	437.0
30°	511.8	487.5	469.2	453.3	441.6	433.9	430.6	427.9	424.3	422.9	421.6
32.5°	484.6	462.8	447.1	433.3	422.1	417.1	414.1	411.7	408.8	407.5	404.8
35°	446.2	427.9	412.6	404.9	395.9	391.6	389.3	385.9	383.3	382.0	381.7
37.5°	410.1	394.1	384.1	374.3	370.4	367.7	364.6	362.3	361.5	361.3	361.0
40°	386.6	373.6	364.6	356.7	355.0	351.0	348.3	346.3	346.3	346.7	346.3
42.5°	365.3	353.7	345.7	338.9	336.9	334.5	331.8	331.7	332.3	333.3	332.3
45°	333.1	324.7	319.1	315.7	312.0	309.7	309.3	310.4	310.7	311.0	312.0
47.5°	303.3	297.7	292.7	289.0	287.4	287.0	286.6	288.3	289.9	290.5	292.0
50°	285.7	279.4	275.1	272.8	271.4	270.7	271.4	273.4	274.7	276.4	277.4
52.5°	266.0	261.5	258.6	256.7	256.2	256.6	256.7	259.0	261.2	261.7	262.3
55°	238.8	235.4	234.8	231.8	233.1	232.7	234.4	235.8	237.7	239.8	240.1
57.5°	211.6	208.9	207.1	207.4	207.8	209.3	210.6	213.0	215.2	217.2	217.5
60°	193.5	192.2	191.2	191.2	191.8	193.9	195.5	197.8	199.1	200.5	201.4
62.5°	177.0	175.7	174.6	175.1	176.9	178.1	180.0	181.3	182.6	184.0	184.4
65°	150.9	150.2	151.2	151.9	152.2	153.8	156.2	157.2	158.5	159.2	161.5
67.5°	126.8	127.0	126.8	127.8	129.7	130.1	132.2	134.6	134.9	136.2	137.7
70°	110.6	111.2	111.9	112.5	114.2	114.9	116.5	117.5	118.9	119.8	120.9
72.5°	95.7	95.8	96.5	96.3	97.7	99.2	100.6	101.6	102.9	104.2	105.1
75°	73.6	73.6	74.3	74.6	76.2	77.9	77.6	78.3	79.6	81.0	81.6
77.5°	53.8	53.1	53.8	54.0	54.6	56.0	56.3	57.2	58.8	58.3	59.0
80°	40.9	39.9	40.9	41.3	41.3	43.0	43.0	43.6	44.6	43.6	44.6
82.5°	29.2	28.8	29.5	29.6	30.1	30.1	30.7	30.9	31.8	31.4	31.8
85°	14.6	14.4	14.6	14.4	14.6	15.0	15.0	14.6	14.6	15.3	14.4
87.5°	6.1	6.3	6.7	7.3	7.8	8.1	7.8	7.7	7.7	7.0	7.0
90°	7.8	10.3	13.5	16.7	19.9	23.2	22.8	22.6	22.3	22.0	21.9
92.5°	16.9	18.0	18.7	19.5	20.2	21.0	21.1	21.1	21.2	21.3	21.3
95°	40.3	41.2	41.5	41.7	42.1	42.4	42.4	42.4	42.4	42.4	42.2
97.5°	68.0	68.9	69.6	70.1	70.6	71.2	71.2	71.2	71.2	71.2	71.2
100°	88.7	89.5	90.0	90.4	90.9	91.3	91.3	91.3	91.3	91.3	91.2
102.5°	110.0	110.8	111.4	111.9	112.4	113.0	113.2	113.2	113.3	113.5	113.5
105°	144.0	144.4	144.7	145.0	145.3	145.6	145.9	146.2	146.4	146.8	146.9
107.5°	181.1	181.5	181.5	181.5	181.5	181.5	181.6	181.6	181.8	181.9	181.6
110°	205.4	205.8	205.8	205.8	205.8	205.8	205.8	205.8	205.8	205.8	205.5



TEST NUMBER: P331502-940

CATALOG NUMBER: S122DIW-S485D710U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	230.8	231.1	231.0	230.9	230.8	230.7	230.3	230.0	229.6	229.3	228.9
115°	268.2	268.5	268.2	267.9	267.6	267.3	267.2	267.1	266.9	266.7	266.4
117.5°	306.7	306.8	306.0	305.2	304.4	303.6	303.3	302.9	302.6	302.2	301.8
120°	331.5	331.5	330.4	329.2	328.1	326.9	326.9	326.9	326.9	326.9	326.6
122.5°	355.3	355.6	354.7	353.9	353.1	352.3	352.0	351.6	351.2	350.9	350.5
125°	390.4	390.8	390.4	389.9	389.5	389.1	388.6	388.2	387.7	387.3	387.0
127.5°	426.3	427.0	426.4	425.9	425.3	424.8	424.3	423.7	423.2	422.7	422.2
130°	449.0	449.8	449.5	449.2	448.9	448.6	448.4	448.1	447.7	447.5	447.0
132.5°	471.9	472.8	472.8	472.9	473.0	473.0	472.3	471.7	471.0	470.4	469.8
135°	504.7	505.7	506.0	506.3	506.6	506.8	506.7	506.6	506.4	506.3	506.0
137.5°	537.8	538.7	539.0	539.5	539.8	540.2	540.1	539.9	539.8	539.8	539.4
140°	558.5	559.5	560.3	561.0	561.7	562.4	562.4	562.4	562.4	562.4	562.1
142.5°	579.6	580.6	581.0	581.6	582.0	582.6	582.6	582.8	582.9	583.0	582.8
145°	608.9	609.8	610.7	611.6	612.5	613.4	613.5	613.7	613.9	613.9	613.8
147.5°	636.9	637.8	638.4	638.9	639.5	640.2	640.4	640.8	641.1	641.4	641.3
150°	654.0	654.7	655.3	655.9	656.5	657.1	657.5	657.9	658.4	658.8	658.8
152.5°	670.4	671.2	671.9	672.6	673.3	674.0	674.6	675.1	675.6	676.3	676.3
155°	693.2	693.7	694.1	694.6	695.0	695.4	696.2	696.9	697.7	698.4	698.6
157.5°	713.7	714.0	714.3	714.5	714.8	715.1	716.0	717.0	718.0	719.0	719.2
160°	726.4	726.7	726.7	726.9	727.0	727.2	728.1	729.0	729.9	730.8	730.8
162.5°	737.1	737.2	737.4	737.5	737.6	737.8	738.8	739.8	740.8	741.8	741.9
165°	751.8	751.7	751.7	751.7	751.7	751.7	752.7	753.8	754.7	755.8	756.0
167.5°	763.6	763.3	763.3	763.2	763.2	763.2	764.2	765.3	766.2	767.3	767.4
170°	770.4	770.2	770.0	769.8	769.7	769.5	770.6	771.6	772.7	773.6	773.7
172.5°	775.2	774.9	774.7	774.6	774.5	774.3	775.3	776.4	777.4	778.5	778.5
175°	781.0	780.7	780.3	780.1	779.8	779.4	780.5	781.5	782.6	783.6	783.6
177.5°	783.7	783.5	783.2	783.0	782.7	782.5	783.2	783.9	784.6	785.3	785.3
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



TEST NUMBER: P331502-940

CATALOG NUMBER: S122DIW-S485D710U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	831.1	830.5	830.5	828.1	830.5	830.5	831.1	833.7	834.6	835.1	834.0
5°	771.0	769.9	768.3	769.9	768.3	769.9	771.0	775.6	777.9	780.2	782.3
7.5°	711.5	707.5	706.9	702.9	706.9	707.5	711.5	713.6	718.3	723.5	728.3
10°	668.1	665.4	665.0	658.7	665.0	665.4	668.1	673.7	678.3	684.7	691.3
12.5°	635.0	628.6	629.9	626.2	629.9	628.6	635.0	635.1	640.5	644.4	654.9
15°	577.7	577.7	576.5	570.8	576.5	577.7	577.7	586.7	588.4	594.8	603.8
17.5°	536.7	536.0	532.8	534.4	532.8	536.0	536.7	543.3	544.4	552.9	560.3
20°	512.2	510.1	506.2	506.2	506.2	510.1	512.2	515.9	520.1	525.1	531.5
22.5°	489.0	488.8	484.6	486.0	484.6	488.8	489.0	492.4	496.5	502.0	507.3
25°	461.9	459.2	457.3	458.3	457.3	459.2	461.9	462.3	466.9	470.6	473.9
27.5°	436.2	434.7	434.6	431.9	434.6	434.7	436.2	437.0	439.7	441.8	445.0
30°	421.2	417.9	418.6	417.0	418.6	417.9	421.2	421.6	422.9	424.3	427.9
32.5°	404.2	403.1	402.3	400.9	402.3	403.1	404.2	404.8	407.5	408.8	411.7
35°	380.9	381.3	379.6	380.3	379.6	381.3	380.9	381.7	382.0	383.3	385.9
37.5°	360.7	361.8	361.0	361.1	361.0	361.8	360.7	361.0	361.3	361.5	362.3
40°	347.3	347.3	347.3	348.3	347.3	347.3	347.3	346.3	346.7	346.3	346.3
42.5°	334.6	334.0	333.5	333.4	333.5	334.0	334.6	332.3	333.3	332.3	331.7
45°	312.7	313.7	314.1	312.4	314.1	313.7	312.7	312.0	311.0	310.7	310.4
47.5°	292.9	293.0	292.9	294.4	292.9	293.0	292.9	292.0	290.5	289.9	288.3
50°	279.1	278.4	279.1	278.4	279.1	278.4	279.1	277.4	276.4	274.7	273.4
52.5°	264.4	264.6	264.1	264.0	264.1	264.6	264.4	262.3	261.7	261.2	259.0
55°	241.5	242.1	241.7	241.7	241.7	242.1	241.5	240.1	239.8	237.7	235.8
57.5°	217.7	218.3	218.7	217.2	218.7	218.3	217.7	217.5	217.2	215.2	213.0
60°	201.2	202.8	202.5	201.8	202.5	202.8	201.2	201.4	200.5	199.1	197.8
62.5°	185.9	186.5	186.5	186.4	186.5	186.5	185.9	184.4	184.0	182.6	181.3
65°	162.5	163.2	162.2	163.2	162.2	163.2	162.5	161.5	159.2	158.5	157.2
67.5°	137.2	137.5	138.2	138.7	138.2	137.5	137.2	137.7	136.2	134.9	134.6
70°	121.5	121.2	122.3	123.2	122.3	121.2	121.5	120.9	119.8	118.9	117.5
72.5°	105.0	105.8	105.4	106.2	105.4	105.8	105.0	105.1	104.2	102.9	101.6
75°	81.0	81.9	81.6	82.6	81.6	81.9	81.0	81.6	81.0	79.6	78.3
77.5°	58.5	58.6	58.5	59.0	58.5	58.6	58.5	59.0	58.3	58.8	57.2
80°	44.6	44.0	43.2	44.6	43.2	44.0	44.6	44.6	43.6	44.6	43.6
82.5°	31.0	31.5	30.8	30.8	30.8	31.5	31.0	31.8	31.4	31.8	30.9
85°	14.4	14.0	13.3	13.3	13.3	14.0	14.4	14.4	15.3	14.6	14.6
87.5°	7.0	6.9	6.9	6.6	6.9	6.9	7.0	7.0	7.0	7.7	7.7
90°	22.0	22.2	22.4	22.5	22.4	22.2	22.0	21.9	22.0	22.3	22.6
92.5°	21.3	21.4	21.4	21.4	21.4	21.4	21.3	21.3	21.3	21.2	21.1
95°	41.9	41.6	41.3	41.0	41.3	41.6	41.9	42.2	42.4	42.4	42.4
97.5°	71.2	71.2	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2
100°	91.1	91.0	90.8	90.7	90.8	91.0	91.1	91.2	91.3	91.3	91.3
102.5°	113.3	113.2	113.1	112.9	113.1	113.2	113.3	113.5	113.5	113.3	113.2
105°	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.9	146.8	146.4	146.2
107.5°	180.9	180.3	179.6	179.0	179.6	180.3	180.9	181.6	181.9	181.8	181.6
110°	205.1	204.6	204.2	203.8	204.2	204.6	205.1	205.5	205.8	205.8	205.8



TEST NUMBER: P331502-940

CATALOG NUMBER: S122DIW-S485D710U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	228.6	228.3	227.9	227.7	227.9	228.3	228.6	228.9	229.3	229.6	230.0
115°	266.0	265.6	265.1	264.7	265.1	265.6	266.0	266.4	266.7	266.9	267.1
117.5°	301.3	300.9	300.4	300.0	300.4	300.9	301.3	301.8	302.2	302.6	302.9
120°	326.2	325.7	325.3	324.9	325.3	325.7	326.2	326.6	326.9	326.9	326.9
122.5°	350.2	349.9	349.6	349.3	349.6	349.9	350.2	350.5	350.9	351.2	351.6
125°	386.9	386.7	386.6	386.5	386.6	386.7	386.9	387.0	387.3	387.7	388.2
127.5°	421.7	421.2	420.8	420.4	420.8	421.2	421.7	422.2	422.7	423.2	423.7
130°	446.4	445.9	445.2	444.7	445.2	445.9	446.4	447.0	447.5	447.7	448.1
132.5°	469.4	468.9	468.4	468.0	468.4	468.9	469.4	469.8	470.4	471.0	471.7
135°	505.5	505.1	504.6	504.2	504.6	505.1	505.5	506.0	506.3	506.4	506.6
137.5°	538.8	538.2	537.6	537.0	537.6	538.2	538.8	539.4	539.8	539.8	539.9
140°	561.6	561.0	560.4	559.8	560.4	561.0	561.6	562.1	562.4	562.4	562.4
142.5°	582.2	581.6	581.0	580.4	581.0	581.6	582.2	582.8	583.0	582.9	582.8
145°	613.1	612.6	612.0	611.4	612.0	612.6	613.1	613.8	613.9	613.9	613.7
147.5°	640.8	640.2	639.6	639.1	639.6	640.2	640.8	641.3	641.4	641.1	640.8
150°	658.4	657.9	657.5	657.1	657.5	657.9	658.4	658.8	658.8	658.4	657.9
152.5°	675.6	675.1	674.6	674.0	674.6	675.1	675.6	676.3	676.3	675.6	675.1
155°	698.1	697.7	697.2	696.8	697.2	697.7	698.1	698.6	698.4	697.7	696.9
157.5°	718.5	717.7	717.0	716.3	717.0	717.7	718.5	719.2	719.0	718.0	717.0
160°	730.3	729.7	729.2	728.5	729.2	729.7	730.3	730.8	730.8	729.9	729.0
162.5°	741.2	740.6	739.9	739.1	739.9	740.6	741.2	741.9	741.8	740.8	739.8
165°	755.2	754.5	753.8	753.0	753.8	754.5	755.2	756.0	755.8	754.7	753.8
167.5°	766.7	765.9	765.2	764.4	765.2	765.9	766.7	767.4	767.3	766.2	765.3
170°	772.8	772.0	771.1	770.2	771.1	772.0	772.8	773.7	773.6	772.7	771.6
172.5°	777.7	776.8	775.9	775.0	775.9	776.8	777.7	778.5	778.5	777.4	776.4
175°	782.7	781.9	781.0	780.2	781.0	781.9	782.7	783.6	783.6	782.6	781.5
177.5°	784.6	783.9	783.2	782.5	783.2	783.9	784.6	785.3	785.3	784.6	783.9
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



TEST NUMBER: P331502-940

CATALOG NUMBER: S122DIW-S485D710U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	832.7	835.6	840.2	844.9	847.8	853.5	855.1	857.7	860.1	865.7	871.6
5°	784.6	789.3	800.2	806.2	814.6	824.2	830.5	837.2	844.5	857.2	868.9
7.5°	733.1	740.8	754.5	765.7	777.6	791.4	801.4	814.6	825.5	843.3	860.4
10°	698.7	709.6	722.0	735.3	752.0	766.6	780.6	797.3	810.6	831.9	851.9
12.5°	667.8	669.4	687.1	701.8	724.5	742.6	758.8	780.2	793.3	818.6	839.6
15°	613.8	623.8	639.7	651.4	678.3	701.3	724.0	746.3	761.3	792.6	820.2
17.5°	568.3	577.5	593.9	613.0	632.3	655.1	684.5	708.0	728.3	764.1	796.8
20°	539.5	550.8	567.5	587.1	604.1	629.1	654.3	681.4	703.3	743.6	781.9
22.5°	515.0	523.9	537.3	556.7	575.3	598.2	625.9	655.2	678.3	721.8	760.6
25°	480.5	487.9	496.5	512.6	533.5	558.5	580.1	612.4	646.0	686.7	733.6
27.5°	449.5	454.7	462.4	476.4	492.7	516.0	540.1	570.7	604.6	648.6	698.2
30°	430.6	433.9	441.6	453.3	469.2	487.5	511.8	541.2	575.8	620.5	669.7
32.5°	414.1	417.1	422.1	433.3	447.1	462.8	484.6	514.0	547.0	590.8	645.4
35°	389.3	391.6	395.9	404.9	412.6	427.9	446.2	472.9	503.8	545.8	602.4
37.5°	364.6	367.7	370.4	374.3	384.1	394.1	410.1	432.6	463.0	505.3	559.3
40°	348.3	351.0	355.0	356.7	364.6	373.6	386.6	407.2	437.9	476.5	529.1
42.5°	331.8	334.5	336.9	338.9	345.7	353.7	365.3	383.1	410.2	447.8	499.9
45°	309.3	309.7	312.0	315.7	319.1	324.7	333.1	348.3	369.3	404.7	451.9
47.5°	286.6	287.0	287.4	289.0	292.7	297.7	303.3	315.8	334.6	362.7	408.8
50°	271.4	270.7	271.4	272.8	275.1	279.4	285.7	294.7	310.0	336.4	378.6
52.5°	256.7	256.6	256.2	256.7	258.6	261.5	266.0	273.7	287.4	311.6	348.8
55°	234.4	232.7	233.1	231.8	234.8	235.4	238.8	245.1	257.1	273.8	308.7
57.5°	210.6	209.3	207.8	207.4	207.1	208.9	211.6	216.6	225.8	240.4	268.8
60°	195.5	193.9	191.8	191.2	191.2	192.2	193.5	197.2	205.8	218.8	242.1
62.5°	180.0	178.1	176.9	175.1	174.6	175.7	177.0	179.6	185.8	198.0	218.1
65°	156.2	153.8	152.2	151.9	151.2	150.2	150.9	153.6	158.5	168.2	184.1
67.5°	132.2	130.1	129.7	127.8	126.8	127.0	126.8	129.1	132.1	140.4	152.3
70°	116.5	114.9	114.2	112.5	111.9	111.2	110.6	112.5	115.6	122.5	132.9
72.5°	100.6	99.2	97.7	96.3	96.5	95.8	95.7	96.8	99.3	105.8	113.7
75°	77.6	77.9	76.2	74.6	74.3	73.6	73.6	74.6	75.6	80.6	86.9
77.5°	56.3	56.0	54.6	54.0	53.8	53.1	53.8	54.4	54.9	58.3	63.0
80°	43.0	43.0	41.3	41.3	40.9	39.9	40.9	40.3	41.6	44.9	48.3
82.5°	30.7	30.1	30.1	29.6	29.5	28.8	29.2	29.9	30.4	32.7	34.7
85°	15.0	15.0	14.6	14.4	14.6	14.4	14.6	15.0	15.3	16.3	18.0
87.5°	7.8	8.1	7.8	7.3	6.7	6.3	6.1	6.0	6.2	6.1	6.0
90°	22.8	23.2	19.9	16.7	13.5	10.3	7.8	6.0	4.2	2.4	0.6
92.5°	21.1	21.0	20.2	19.5	18.7	18.0	16.9	15.7	14.4	13.1	11.8
95°	42.4	42.4	42.1	41.7	41.5	41.2	40.3	38.8	37.4	35.8	34.4
97.5°	71.2	71.2	70.6	70.1	69.6	68.9	68.0	66.7	65.5	64.1	62.9
100°	91.3	91.3	90.9	90.4	90.0	89.5	88.7	87.6	86.4	85.2	84.0
102.5°	113.2	113.0	112.4	111.9	111.4	110.8	110.0	109.1	108.2	107.2	106.3
105°	145.9	145.6	145.3	145.0	144.7	144.4	144.0	143.6	143.1	142.7	142.2
107.5°	181.6	181.5	181.5	181.5	181.5	181.5	181.1	180.5	179.9	179.1	178.5
110°	205.8	205.8	205.8	205.8	205.8	205.8	205.4	204.5	203.6	202.7	201.8



TEST NUMBER: P331502-940

CATALOG NUMBER: S122DIW-S485D710U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	230.3	230.7	230.8	230.9	231.0	231.1	230.8	229.9	229.0	228.1	227.2
115°	267.2	267.3	267.6	267.9	268.2	268.5	268.2	267.3	266.4	265.6	264.7
117.5°	303.3	303.6	304.4	305.2	306.0	306.8	306.7	305.5	304.3	303.2	302.0
120°	326.9	326.9	328.1	329.2	330.4	331.5	331.5	330.4	329.2	328.1	326.9
122.5°	352.0	352.3	353.1	353.9	354.7	355.6	355.3	353.8	352.5	351.1	349.6
125°	388.6	389.1	389.5	389.9	390.4	390.8	390.4	389.1	387.7	386.5	385.1
127.5°	424.3	424.8	425.3	425.9	426.4	427.0	426.3	424.6	423.0	421.3	419.6
130°	448.4	448.6	448.9	449.2	449.5	449.8	449.0	447.1	445.1	443.3	441.3
132.5°	472.3	473.0	473.0	472.9	472.8	472.8	471.9	470.4	468.9	467.3	465.7
135°	506.7	506.8	506.6	506.3	506.0	505.7	504.7	503.1	501.5	499.9	498.3
137.5°	540.1	540.2	539.8	539.5	539.0	538.7	537.8	536.5	535.2	533.9	532.5
140°	562.4	562.4	561.7	561.0	560.3	559.5	558.5	557.1	555.8	554.5	553.2
142.5°	582.6	582.6	582.0	581.6	581.0	580.6	579.6	578.4	577.0	575.7	574.4
145°	613.5	613.4	612.5	611.6	610.7	609.8	608.9	607.9	606.8	605.8	604.8
147.5°	640.4	640.2	639.5	638.9	638.4	637.8	636.9	635.6	634.4	633.1	632.0
150°	657.5	657.1	656.5	655.9	655.3	654.7	654.0	653.1	652.2	651.3	650.4
152.5°	674.6	674.0	673.3	672.6	671.9	671.2	670.4	669.5	668.6	667.7	666.8
155°	696.2	695.4	695.0	694.6	694.1	693.7	693.2	692.8	692.3	691.9	691.4
157.5°	716.0	715.1	714.8	714.5	714.3	714.0	713.7	713.4	713.1	712.8	712.5
160°	728.1	727.2	727.0	726.9	726.7	726.7	726.4	726.1	725.8	725.5	725.2
162.5°	738.8	737.8	737.6	737.5	737.4	737.2	737.1	737.0	737.0	736.9	736.8
165°	752.7	751.7	751.7	751.7	751.7	751.7	751.8	751.9	752.1	752.2	752.3
167.5°	764.2	763.2	763.2	763.2	763.3	763.3	763.6	764.0	764.5	764.9	765.4
170°	770.6	769.5	769.7	769.8	770.0	770.2	770.4	770.9	771.3	771.8	772.2
172.5°	775.3	774.3	774.5	774.6	774.7	774.9	775.2	775.6	776.1	776.5	776.9
175°	780.5	779.4	779.8	780.1	780.3	780.7	781.0	781.5	781.9	782.4	782.7
177.5°	783.2	782.5	782.7	783.0	783.2	783.5	783.7	784.1	784.4	784.8	785.2
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



TEST NUMBER: P331502-940

CATALOG NUMBER: S122DIW-S485D710U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	871.0	872.4	876.6	880.9	885.6	887.0	889.1	887.3	886.7	891.8	895.5
5°	873.5	879.5	891.2	901.8	910.8	917.1	923.8	926.5	931.5	938.4	947.1
7.5°	870.7	882.3	900.7	916.2	933.1	945.3	954.8	963.0	972.8	986.1	1000.5
10°	867.5	883.2	905.4	924.4	945.1	960.7	973.7	986.4	1001.0	1019.4	1038.3
12.5°	861.7	880.2	908.1	930.6	957.1	972.5	990.0	1017.3	1033.0	1058.5	1085.2
15°	849.9	870.5	909.5	937.1	967.1	996.4	1028.7	1054.6	1080.7	1095.6	1133.3
17.5°	832.3	862.6	905.8	938.1	976.2	1022.3	1058.5	1088.1	1118.0	1142.3	1161.2
20°	818.2	851.2	900.4	939.1	984.4	1034.0	1075.7	1105.6	1131.6	1151.9	1163.6
22.5°	800.4	841.9	889.8	935.1	992.9	1042.1	1085.7	1109.4	1131.0	1140.9	1145.4
25°	772.2	822.2	876.5	931.7	997.0	1049.0	1089.0	1103.3	1109.6	1099.9	1084.0
27.5°	742.0	797.6	861.1	925.5	994.5	1044.5	1073.1	1070.9	1060.2	1028.9	1003.9
30°	719.3	780.6	848.8	919.1	988.4	1037.0	1053.6	1037.0	1012.7	977.8	942.1
32.5°	695.6	759.0	835.8	910.1	977.2	1019.9	1023.6	994.9	957.3	917.6	873.1
35°	659.7	728.3	811.2	889.8	953.4	980.4	964.4	913.8	869.2	814.9	754.3
37.5°	619.1	694.9	778.0	860.1	917.8	924.9	885.2	831.9	768.9	705.2	633.8
40°	588.8	669.1	754.7	837.5	888.5	881.2	830.5	772.0	697.0	619.1	552.8
42.5°	561.6	641.9	729.1	810.4	851.2	831.1	772.0	700.0	619.5	546.1	485.4
45°	514.5	597.1	686.3	764.9	788.3	752.0	673.7	593.8	514.5	453.3	405.3
47.5°	468.9	550.5	638.8	707.9	716.2	667.4	581.8	499.6	431.5	381.6	347.8
50°	435.2	517.2	604.8	666.4	663.7	604.8	516.8	438.5	381.7	341.3	318.7
52.5°	405.1	482.5	566.7	622.7	608.6	544.3	460.4	390.9	344.1	312.5	292.0
55°	358.3	429.9	509.9	554.8	528.9	457.5	386.6	330.6	296.0	272.4	256.5
57.5°	311.8	379.0	447.4	475.1	446.4	380.6	321.5	280.9	254.9	237.3	226.9
60°	283.0	341.7	402.6	426.6	392.3	333.7	287.0	250.7	229.8	215.4	206.2
62.5°	254.3	306.7	364.3	377.3	345.9	296.4	255.1	224.9	207.7	194.9	186.2
65°	215.2	258.1	301.8	310.4	281.4	243.1	210.4	190.8	175.5	166.2	159.2
67.5°	176.5	210.9	241.8	248.8	223.5	196.9	173.3	156.2	145.8	138.0	132.2
70°	153.6	180.8	206.2	211.8	191.5	167.8	149.9	136.2	126.9	120.2	114.6
72.5°	129.3	152.0	173.1	176.9	160.3	142.2	127.5	116.7	108.5	104.2	98.8
75°	98.9	112.3	128.6	129.6	118.6	107.5	96.2	89.3	84.9	79.6	77.0
77.5°	69.8	80.3	89.6	91.4	84.9	77.4	71.1	65.5	61.9	59.4	57.0
80°	53.3	61.6	65.6	67.9	63.3	58.0	54.3	50.6	48.3	46.6	44.9
82.5°	38.1	43.2	47.0	48.8	46.2	43.1	39.3	37.3	35.5	34.1	33.5
85°	19.4	21.7	24.0	24.6	24.0	22.6	20.7	20.7	19.6	19.4	19.4
87.5°	7.1	8.6	8.9	10.1	10.1	10.7	11.3	11.7	12.1	11.8	11.4
90°	2.4	4.2	6.0	7.8	10.3	13.5	16.7	19.9	23.2	22.8	22.6
92.5°	13.1	14.4	15.7	16.9	18.0	18.7	19.5	20.2	21.0	21.1	21.1
95°	35.8	37.4	38.8	40.3	41.2	41.5	41.7	42.1	42.4	42.4	42.4
97.5°	64.1	65.5	66.7	68.0	68.9	69.6	70.1	70.6	71.2	71.2	71.2
100°	85.2	86.4	87.6	88.7	89.5	90.0	90.4	90.9	91.3	91.3	91.3
102.5°	107.2	108.2	109.1	110.0	110.8	111.4	111.9	112.4	113.0	113.2	113.2
105°	142.7	143.1	143.6	144.0	144.4	144.7	145.0	145.3	145.6	145.9	146.2
107.5°	179.1	179.9	180.5	181.1	181.5	181.5	181.5	181.5	181.5	181.6	181.6
110°	202.7	203.6	204.5	205.4	205.8	205.8	205.8	205.8	205.8	205.8	205.8



TEST NUMBER: P331502-940

CATALOG NUMBER: S122DIW-S485D710U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	228.1	229.0	229.9	230.8	231.1	231.0	230.9	230.8	230.7	230.3	230.0
115°	265.6	266.4	267.3	268.2	268.5	268.2	267.9	267.6	267.3	267.2	267.1
117.5°	303.2	304.3	305.5	306.7	306.8	306.0	305.2	304.4	303.6	303.3	302.9
120°	328.1	329.2	330.4	331.5	331.5	330.4	329.2	328.1	326.9	326.9	326.9
122.5°	351.1	352.5	353.8	355.3	355.6	354.7	353.9	353.1	352.3	352.0	351.6
125°	386.5	387.7	389.1	390.4	390.8	390.4	389.9	389.5	389.1	388.6	388.2
127.5°	421.3	423.0	424.6	426.3	427.0	426.4	425.9	425.3	424.8	424.3	423.7
130°	443.3	445.1	447.1	449.0	449.8	449.5	449.2	448.9	448.6	448.4	448.1
132.5°	467.3	468.9	470.4	471.9	472.8	472.8	472.9	473.0	473.0	472.3	471.7
135°	499.9	501.5	503.1	504.7	505.7	506.0	506.3	506.6	506.8	506.7	506.6
137.5°	533.9	535.2	536.5	537.8	538.7	539.0	539.5	539.8	540.2	540.1	539.9
140°	554.5	555.8	557.1	558.5	559.5	560.3	561.0	561.7	562.4	562.4	562.4
142.5°	575.7	577.0	578.4	579.6	580.6	581.0	581.6	582.0	582.6	582.6	582.8
145°	605.8	606.8	607.9	608.9	609.8	610.7	611.6	612.5	613.4	613.5	613.7
147.5°	633.1	634.4	635.6	636.9	637.8	638.4	638.9	639.5	640.2	640.4	640.8
150°	651.3	652.2	653.1	654.0	654.7	655.3	655.9	656.5	657.1	657.5	657.9
152.5°	667.7	668.6	669.5	670.4	671.2	671.9	672.6	673.3	674.0	674.6	675.1
155°	691.9	692.3	692.8	693.2	693.7	694.1	694.6	695.0	695.4	696.2	696.9
157.5°	712.8	713.1	713.4	713.7	714.0	714.3	714.5	714.8	715.1	716.0	717.0
160°	725.5	725.8	726.1	726.4	726.7	726.7	726.9	727.0	727.2	728.1	729.0
162.5°	736.9	737.0	737.0	737.1	737.2	737.4	737.5	737.6	737.8	738.8	739.8
165°	752.2	752.1	751.9	751.8	751.7	751.7	751.7	751.7	751.7	752.7	753.8
167.5°	764.9	764.5	764.0	763.6	763.3	763.3	763.2	763.2	763.2	764.2	765.3
170°	771.8	771.3	770.9	770.4	770.2	770.0	769.8	769.7	769.5	770.6	771.6
172.5°	776.5	776.1	775.6	775.2	774.9	774.7	774.6	774.5	774.3	775.3	776.4
175°	782.4	781.9	781.5	781.0	780.7	780.3	780.1	779.8	779.4	780.5	781.5
177.5°	784.8	784.4	784.1	783.7	783.5	783.2	783.0	782.7	782.5	783.2	783.9
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	898.8	902.5	902.5	903.0	907.2	906.8	906.5
5°	956.4	962.1	962.8	968.8	972.8	971.4	967.8
7.5°	1010.8	1021.4	1029.4	1033.8	1039.1	1042.3	1040.9
10°	1054.0	1069.3	1078.6	1084.9	1092.6	1098.3	1096.3
12.5°	1093.1	1111.4	1124.2	1135.1	1136.0	1143.4	1138.4
15°	1154.2	1173.6	1175.5	1183.6	1189.9	1189.2	1189.5
17.5°	1174.4	1180.6	1181.9	1182.1	1182.1	1179.8	1174.7
20°	1167.2	1164.9	1159.2	1154.9	1147.3	1146.2	1139.6
22.5°	1133.1	1125.7	1111.5	1102.2	1090.2	1087.1	1085.2
25°	1066.0	1049.6	1027.0	1005.4	999.3	987.7	991.0
27.5°	973.8	948.4	923.9	906.3	890.5	873.0	878.0
30°	909.1	880.5	845.9	819.2	802.3	785.6	782.6
32.5°	831.9	789.9	751.3	727.8	701.8	691.3	679.8
35°	698.7	657.7	619.4	586.5	567.5	552.8	539.5
37.5°	578.8	531.7	500.8	474.1	460.4	452.0	454.1
40°	504.5	463.2	440.6	420.3	407.6	401.6	403.0
42.5°	444.3	413.4	394.8	380.8	371.9	368.5	367.7
45°	375.9	358.6	343.3	335.4	331.0	327.3	325.0
47.5°	329.4	315.2	306.6	301.8	298.0	294.4	294.3
50°	301.4	292.0	286.1	281.1	278.0	275.4	277.8
52.5°	280.1	271.5	265.6	261.1	259.9	257.5	257.5
55°	248.4	241.7	237.5	233.4	231.5	230.2	228.5
57.5°	219.6	213.3	209.4	206.8	203.0	201.7	201.2
60°	199.1	194.1	190.1	186.8	185.1	182.5	182.5
62.5°	180.2	175.2	171.5	169.0	166.2	165.1	165.4
65°	152.8	148.8	145.2	142.5	141.9	139.9	140.5
67.5°	127.7	125.0	121.2	119.7	118.4	117.3	116.5
70°	110.9	108.3	106.2	104.2	103.3	103.3	103.3
72.5°	96.8	93.5	92.4	89.9	90.4	89.3	88.3
75°	74.9	72.9	72.0	70.9	69.3	69.3	69.3
77.5°	55.1	54.6	53.3	52.3	51.9	51.5	51.7
80°	42.6	42.3	41.6	41.6	40.9	40.7	39.9
82.5°	32.7	31.9	31.5	31.2	31.1	31.0	30.9
85°	18.6	18.0	18.0	18.3	17.7	17.7	18.0
87.5°	11.7	11.6	11.3	11.3	11.6	11.4	11.4
90°	22.3	22.0	21.9	22.0	22.2	22.4	22.5
92.5°	21.2	21.3	21.3	21.3	21.4	21.4	21.4
95°	42.4	42.4	42.2	41.9	41.6	41.3	41.0
97.5°	71.2	71.2	71.2	71.2	71.2	71.1	71.1
100°	91.3	91.3	91.2	91.1	91.0	90.8	90.7
102.5°	113.3	113.5	113.5	113.3	113.2	113.1	112.9
105°	146.4	146.8	146.9	146.9	146.9	146.9	146.9
107.5°	181.8	181.9	181.6	180.9	180.3	179.6	179.0
110°	205.8	205.8	205.5	205.1	204.6	204.2	203.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	229.6	229.3	228.9	228.6	228.3	227.9	227.7
115°	266.9	266.7	266.4	266.0	265.6	265.1	264.7
117.5°	302.6	302.2	301.8	301.3	300.9	300.4	300.0
120°	326.9	326.9	326.6	326.2	325.7	325.3	324.9
122.5°	351.2	350.9	350.5	350.2	349.9	349.6	349.3
125°	387.7	387.3	387.0	386.9	386.7	386.6	386.5
127.5°	423.2	422.7	422.2	421.7	421.2	420.8	420.4
130°	447.7	447.5	447.0	446.4	445.9	445.2	444.7
132.5°	471.0	470.4	469.8	469.4	468.9	468.4	468.0
135°	506.4	506.3	506.0	505.5	505.1	504.6	504.2
137.5°	539.8	539.8	539.4	538.8	538.2	537.6	537.0
140°	562.4	562.4	562.1	561.6	561.0	560.4	559.8
142.5°	582.9	583.0	582.8	582.2	581.6	581.0	580.4
145°	613.9	613.9	613.8	613.1	612.6	612.0	611.4
147.5°	641.1	641.4	641.3	640.8	640.2	639.6	639.1
150°	658.4	658.8	658.8	658.4	657.9	657.5	657.1
152.5°	675.6	676.3	676.3	675.6	675.1	674.6	674.0
155°	697.7	698.4	698.6	698.1	697.7	697.2	696.8
157.5°	718.0	719.0	719.2	718.5	717.7	717.0	716.3
160°	729.9	730.8	730.8	730.3	729.7	729.2	728.5
162.5°	740.8	741.8	741.9	741.2	740.6	739.9	739.1
165°	754.7	755.8	756.0	755.2	754.5	753.8	753.0
167.5°	766.2	767.3	767.4	766.7	765.9	765.2	764.4
170°	772.7	773.6	773.7	772.8	772.0	771.1	770.2
172.5°	777.4	778.5	778.5	777.7	776.8	775.9	775.0
175°	782.6	783.6	783.6	782.7	781.9	781.0	780.2
177.5°	784.6	785.3	785.3	784.6	783.9	783.2	782.5
180°	784.1	784.1	784.1	784.1	784.1	784.1	784.1

(END OF REPORT)