

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: P331502-840

Luminaire Tested: **S122DIW-S485D710U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331502-840
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-S485D710U840-4F0-1E-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: 4651.6 lumens
Efficiency: N/A
Efficacy: 123.7 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

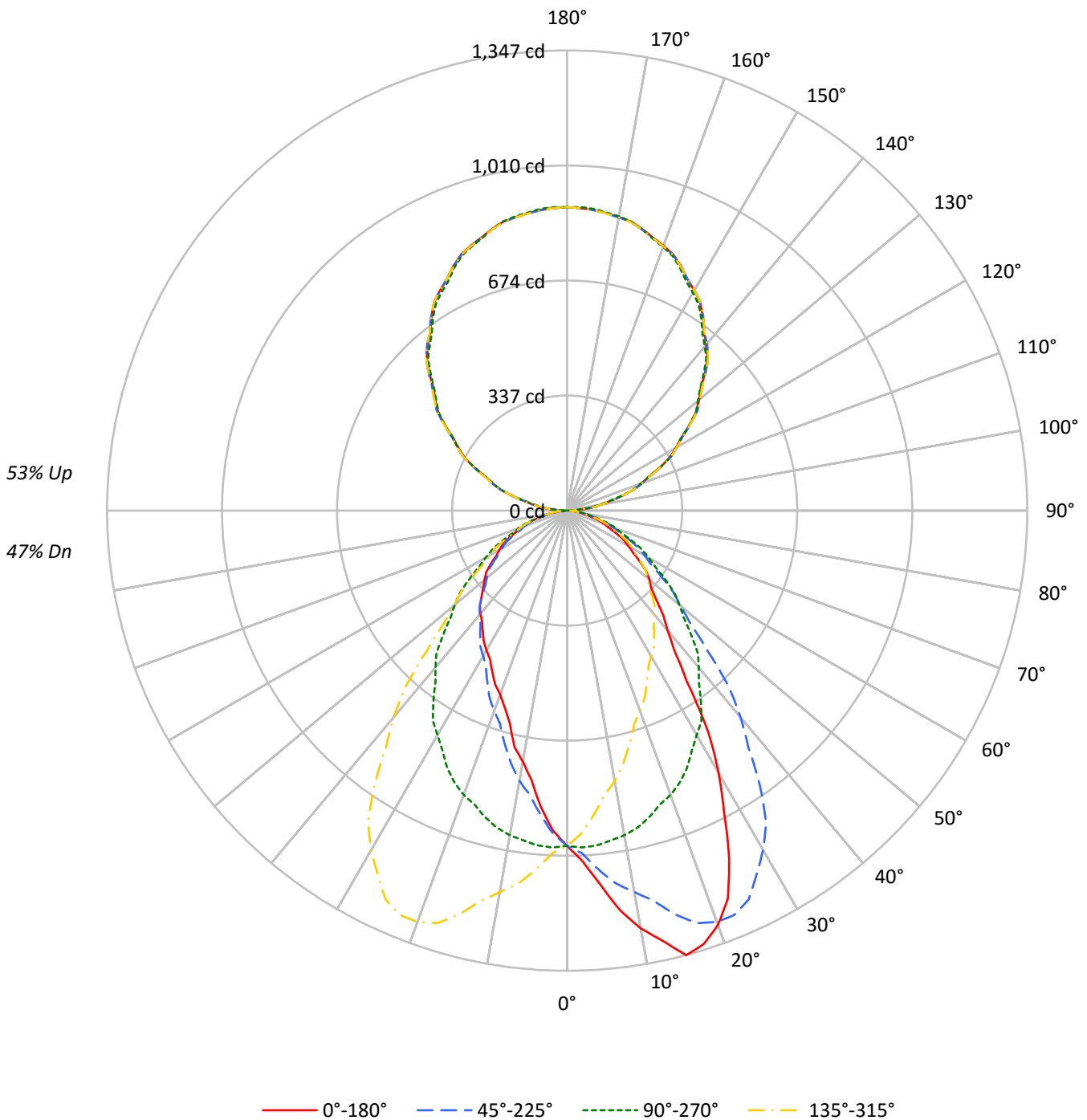
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15844	15844	15844	15844
5°	17763	15948	14131	15948
10°	20354	15816	12231	15816
15°	22519	15527	10805	15527
20°	22175	15216	9850	15216
25°	19996	14801	9246	14801
30°	16524	14139	8804	14139
35°	12043	13448	8489	13448
40°	9619	12631	8315	12631
45°	8405	11686	8079	11686
50°	7902	10771	7920	10771
55°	7282	9841	7707	9841
60°	6675	8854	7379	8854
65°	6082	7966	7060	7966
70°	5519	7105	6590	7105
75°	4897	6145	5833	6145
80°	4203	5086	4695	5086
85°	3779	3779	2779	3779



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	2.0
10°-20°	271.7	5.8
20°-30°	394.3	8.5
30°-40°	416.1	8.9
40°-50°	368.4	7.9
50°-60°	294.0	6.3
60°-70°	199.8	4.3
70°-80°	102.5	2.2
80°-90°	28.2	0.6
90°-100°	56.3	1.2
100°-110°	174.8	3.8
110°-120°	298.7	6.4
120°-130°	392.8	8.4
130°-140°	440.9	9.5
140°-150°	432.3	9.3
150°-160°	362.6	7.8
160°-170°	240.5	5.2
170°-180°	84.1	1.8
0°-30°	759.5	16.3
0°-40°	1175.6	25.3
0°-60°	1838.0	39.5
0°-90°	2168.5	46.6
90°-120°	529.8	11.4
90°-150°	1795.8	38.6
90°-180°	2483.0	53.4
0°-180°	4651.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	981	981	981	981	981	
5°	1096	984	872	984	1096	109
15°	1347	929	646	929	1347	372
25°	1122	831	519	831	1122	507
35°	611	682	431	682	611	397
45°	368	512	354	512	368	289
55°	259	350	274	350	259	232
65°	159	208	185	208	159	158
75°	78	98	94	98	78	84
85°	20	20	15	20	20	23
90°	25	1	25	1	25	12
95°	46	39	46	39	46	52
105°	166	161	166	161	166	175
115°	300	300	300	300	300	296
125°	438	436	438	436	438	390
135°	571	564	571	564	571	440
145°	692	685	692	685	692	432
155°	789	783	789	783	789	363
165°	853	852	853	852	853	241
175°	884	886	884	886	884	84
180°	888	888	888	888	888	



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1026.6	1026.9	1027.4	1022.7	1022.1	1022.1	1017.8	1014.2	1010.0	1004.2	1004.8
5°	1096.0	1100.1	1101.7	1097.1	1090.4	1089.5	1083.2	1072.6	1062.8	1054.9	1049.2
7.5°	1178.8	1180.4	1176.8	1170.8	1165.8	1156.7	1144.8	1133.1	1116.7	1101.7	1090.6
10°	1241.5	1243.9	1237.4	1228.7	1221.5	1211.0	1193.7	1175.9	1154.5	1133.7	1117.1
12.5°	1289.2	1294.8	1286.6	1285.5	1273.1	1258.7	1238.0	1229.0	1198.8	1169.9	1152.1
15°	1347.2	1346.8	1347.6	1340.4	1331.3	1329.1	1307.2	1283.4	1240.8	1223.9	1194.4
17.5°	1330.4	1336.2	1338.8	1338.7	1338.5	1337.1	1330.0	1315.0	1293.6	1266.2	1232.2
20°	1290.6	1298.1	1299.3	1308.0	1312.8	1319.3	1321.9	1317.8	1304.5	1281.5	1252.1
22.5°	1229.0	1231.1	1234.7	1248.2	1258.8	1274.9	1283.2	1297.2	1292.1	1280.9	1256.4
25°	1122.4	1118.6	1131.8	1138.6	1163.1	1188.7	1207.2	1227.6	1245.7	1256.7	1249.5
27.5°	994.3	988.7	1008.5	1026.4	1046.3	1074.1	1102.9	1136.9	1165.2	1200.6	1212.7
30°	886.3	889.7	908.6	927.8	958.0	997.1	1029.6	1066.9	1107.3	1146.9	1174.4
32.5°	769.8	782.8	794.8	824.3	850.8	894.5	942.1	988.8	1039.2	1084.1	1126.7
35°	611.0	626.0	642.7	664.2	701.5	744.9	791.2	854.2	922.9	984.3	1034.9
37.5°	514.2	511.9	521.4	536.9	567.1	602.2	655.5	717.8	798.6	870.8	942.1
40°	456.4	454.8	461.6	475.9	499.0	524.6	571.4	626.0	701.1	789.3	874.2
42.5°	416.5	417.4	421.2	431.3	447.1	468.2	503.2	549.8	618.4	701.6	792.7
45°	368.1	370.7	374.9	379.8	388.8	406.2	425.8	459.0	513.3	582.7	672.5
47.5°	333.3	333.4	337.5	341.8	347.2	357.0	373.0	393.8	432.1	488.7	565.8
50°	314.6	311.8	314.9	318.3	324.0	330.7	341.3	360.9	386.6	432.2	496.7
52.5°	291.6	291.6	294.4	295.7	300.7	307.5	317.2	330.7	354.0	389.7	442.7
55°	258.7	260.6	262.2	264.4	268.9	273.8	281.3	290.4	308.5	335.3	374.5
57.5°	227.8	228.4	229.9	234.2	237.1	241.6	248.7	257.0	268.7	288.6	318.1
60°	206.7	206.7	209.6	211.6	215.3	219.8	225.5	233.5	244.0	260.2	284.0
62.5°	187.3	187.0	188.2	191.4	194.2	198.4	204.1	210.9	220.8	235.2	254.7
65°	159.2	158.4	160.7	161.4	164.4	168.5	173.1	180.3	188.2	198.7	216.1
67.5°	132.0	132.9	134.1	135.5	137.2	141.6	144.6	149.7	156.3	165.1	176.9
70°	116.9	116.9	116.9	118.1	120.3	122.6	125.6	129.8	136.1	143.7	154.2
72.5°	100.0	101.2	102.4	101.8	104.6	105.9	109.6	111.9	118.1	122.9	132.2
75°	78.5	78.5	78.5	80.3	81.5	82.6	84.8	87.2	90.2	96.1	101.1
77.5°	58.6	58.4	58.8	59.2	60.4	61.8	62.4	64.5	67.3	70.1	74.2
80°	45.2	46.0	46.4	47.2	47.2	47.9	48.3	50.9	52.8	54.7	57.4
82.5°	35.0	35.1	35.2	35.3	35.6	36.2	37.1	38.0	38.6	40.2	42.2
85°	20.4	20.0	20.0	20.7	20.4	20.4	21.1	21.9	21.9	22.2	23.4
87.5°	12.9	12.9	13.1	12.8	12.8	13.1	13.2	12.9	13.3	13.7	13.2
90°	25.4	25.3	25.1	24.9	24.8	24.9	25.2	25.5	25.9	26.3	22.5
92.5°	24.2	24.2	24.2	24.1	24.1	24.1	24.0	23.9	23.9	23.8	22.9
95°	46.5	46.8	47.2	47.5	47.8	48.0	48.0	48.0	48.0	48.0	47.7
97.5°	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.0
100°	102.7	102.8	103.0	103.2	103.3	103.4	103.4	103.4	103.4	103.4	102.9
102.5°	127.8	128.1	128.2	128.4	128.6	128.6	128.4	128.3	128.2	127.9	127.3
105°	166.3	166.3	166.3	166.3	166.3	166.2	165.8	165.5	165.2	164.9	164.5
107.5°	202.7	203.4	204.2	204.9	205.7	206.0	205.9	205.7	205.6	205.5	205.5
110°	230.9	231.3	231.8	232.3	232.8	233.1	233.1	233.1	233.1	233.1	233.1



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	257.8	258.1	258.5	258.9	259.2	259.6	260.0	260.4	260.8	261.3	261.4
115°	299.7	300.2	300.7	301.2	301.7	302.1	302.3	302.5	302.6	302.8	303.1
117.5°	339.7	340.2	340.7	341.2	341.7	342.2	342.6	343.1	343.5	343.9	344.8
120°	367.9	368.4	368.9	369.4	369.9	370.2	370.2	370.2	370.2	370.2	371.5
122.5°	395.6	395.9	396.3	396.6	397.0	397.4	397.8	398.2	398.6	399.0	399.9
125°	437.7	437.8	438.0	438.2	438.3	438.6	439.1	439.6	440.1	440.6	441.1
127.5°	476.1	476.6	477.1	477.6	478.2	478.7	479.3	479.9	480.5	481.1	481.7
130°	503.6	504.2	504.9	505.5	506.2	506.8	507.1	507.5	507.8	508.1	508.4
132.5°	530.0	530.5	531.0	531.6	532.1	532.7	533.4	534.2	534.9	535.6	535.6
135°	571.0	571.5	572.0	572.5	573.0	573.4	573.5	573.7	573.8	574.0	573.7
137.5°	608.1	608.8	609.6	610.2	610.9	611.3	611.4	611.5	611.7	611.8	611.4
140°	634.0	634.6	635.3	636.0	636.6	636.9	636.9	636.9	636.9	636.9	636.1
142.5°	657.3	658.0	658.6	659.3	660.0	660.2	660.1	660.0	659.8	659.7	659.1
145°	692.5	693.1	693.8	694.4	695.1	695.3	695.2	695.0	694.8	694.7	693.7
147.5°	723.8	724.4	725.0	725.7	726.3	726.4	726.0	725.7	725.3	725.0	724.3
150°	744.2	744.7	745.1	745.6	746.1	746.1	745.6	745.1	744.7	744.2	743.5
152.5°	763.4	764.0	764.6	765.2	765.9	765.9	765.2	764.6	764.0	763.4	762.5
155°	789.1	789.6	790.1	790.6	791.1	790.9	790.1	789.2	788.4	787.6	787.1
157.5°	811.2	812.0	812.8	813.6	814.5	814.3	813.1	812.0	810.9	809.8	809.5
160°	825.1	825.8	826.4	827.1	827.7	827.6	826.6	825.6	824.6	823.5	823.3
162.5°	837.1	837.9	838.7	839.4	840.2	840.1	839.0	837.8	836.7	835.6	835.4
165°	852.8	853.6	854.4	855.3	856.2	856.0	854.7	853.6	852.4	851.3	851.3
167.5°	865.7	866.6	867.4	868.3	869.1	869.0	867.8	866.7	865.5	864.3	864.3
170°	872.2	873.2	874.2	875.3	876.3	876.2	875.0	873.8	872.7	871.5	871.7
172.5°	877.7	878.7	879.7	880.7	881.6	881.6	880.4	879.3	878.1	876.9	877.1
175°	883.5	884.5	885.6	886.5	887.5	887.5	886.3	885.0	883.9	882.7	883.1
177.5°	886.2	887.0	887.8	888.6	889.4	889.4	888.6	887.8	887.0	886.2	886.5
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1006.9	1004.5	1003.0	997.6	992.8	988.0	986.4	987.0	980.4	974.1	971.4
5°	1046.2	1038.6	1031.5	1021.3	1009.3	996.0	989.3	984.0	970.8	956.4	948.2
7.5°	1081.4	1070.6	1056.7	1037.6	1020.1	999.3	986.0	974.4	955.0	934.8	922.5
10°	1102.8	1088.0	1070.4	1046.9	1025.4	1000.2	982.5	964.7	942.1	918.0	902.9
12.5°	1121.2	1101.4	1083.9	1053.9	1028.4	996.8	975.8	950.9	927.1	898.4	883.5
15°	1165.0	1128.4	1095.2	1061.3	1030.0	985.8	962.5	928.9	897.6	862.1	845.2
17.5°	1198.8	1157.7	1105.5	1062.4	1025.8	976.9	942.6	902.4	865.4	824.9	801.8
20°	1218.2	1171.0	1114.8	1063.6	1019.8	964.0	926.7	885.6	842.1	796.5	771.6
22.5°	1229.6	1180.1	1124.5	1059.0	1007.7	953.4	906.5	861.4	817.4	768.2	742.0
25°	1233.2	1188.0	1129.1	1055.2	992.6	931.2	874.5	830.8	777.7	731.6	693.6
27.5°	1215.3	1182.9	1126.3	1048.1	975.2	903.3	840.3	790.7	734.6	684.7	646.3
30°	1193.3	1174.4	1119.3	1040.9	961.3	884.0	814.7	758.4	702.7	652.1	612.9
32.5°	1159.2	1155.1	1106.7	1030.7	946.5	859.6	787.8	730.9	669.1	619.5	582.1
35°	1092.2	1110.3	1079.7	1007.7	918.7	824.9	747.1	682.3	618.1	570.6	535.5
37.5°	1002.5	1047.4	1039.5	974.1	881.1	787.0	701.1	633.4	572.3	524.3	489.9
40°	940.6	997.9	1006.2	948.5	854.6	757.7	666.8	599.3	539.7	495.9	461.2
42.5°	874.2	941.2	964.0	917.8	825.7	726.9	636.0	566.1	507.2	464.5	433.8
45°	763.0	851.6	892.7	866.3	777.3	676.2	582.7	511.8	458.3	418.3	394.5
47.5°	658.9	755.8	811.1	801.7	723.5	623.4	531.0	462.9	410.8	378.9	357.6
50°	585.3	684.9	751.6	754.7	684.9	585.7	492.9	428.8	380.9	351.1	333.8
52.5°	521.4	616.4	689.2	705.2	641.8	546.4	458.8	395.1	352.8	325.5	309.9
55°	437.9	518.2	599.0	628.3	577.4	486.9	405.8	349.6	310.0	291.1	277.6
57.5°	364.1	431.0	505.5	538.1	506.6	429.2	353.1	304.4	272.3	255.7	245.3
60°	325.1	377.9	444.2	483.1	456.0	387.0	320.5	274.2	247.8	233.1	223.3
62.5°	288.9	335.7	391.7	427.3	412.5	347.4	288.0	247.0	224.3	210.5	203.4
65°	238.3	275.3	318.7	351.5	341.7	292.3	243.7	208.5	190.5	179.6	173.9
67.5°	196.2	223.0	253.1	281.8	273.9	238.8	199.9	172.5	159.0	149.6	146.2
70°	169.8	190.1	216.8	239.8	233.5	204.8	173.9	150.5	138.8	130.9	127.4
72.5°	144.4	161.1	181.6	200.4	196.0	172.2	146.4	128.8	119.8	112.5	109.7
75°	109.0	121.8	134.3	146.7	145.6	127.1	112.0	98.5	91.3	85.6	84.5
77.5°	80.5	87.7	96.1	103.5	101.5	90.9	79.1	71.3	66.0	62.2	61.6
80°	61.5	65.6	71.7	77.0	74.3	69.8	60.4	54.7	50.9	47.2	45.6
82.5°	44.5	48.8	52.3	55.2	53.2	49.0	43.1	39.3	37.1	34.4	33.8
85°	23.4	25.7	27.2	27.9	27.2	24.5	21.9	20.4	18.5	17.4	17.0
87.5°	12.8	12.1	11.4	11.4	10.1	9.7	8.1	6.8	6.9	7.0	6.8
90°	18.9	15.2	11.6	8.8	6.8	4.7	2.7	0.7	2.7	4.7	6.8
92.5°	22.1	21.2	20.4	19.2	17.8	16.3	14.8	13.3	14.8	16.3	17.8
95°	47.3	47.0	46.7	45.6	43.9	42.3	40.6	39.0	40.6	42.3	43.9
97.5°	79.4	78.8	78.1	77.1	75.5	74.1	72.6	71.2	72.6	74.1	75.5
100°	102.4	101.9	101.4	100.5	99.2	97.9	96.5	95.1	96.5	97.9	99.2
102.5°	126.7	126.1	125.4	124.6	123.5	122.5	121.4	120.4	121.4	122.5	123.5
105°	164.2	163.9	163.5	163.1	162.6	162.1	161.6	161.1	161.6	162.1	162.6
107.5°	205.5	205.5	205.5	205.1	204.4	203.7	202.9	202.2	202.9	203.7	204.4
110°	233.1	233.1	233.1	232.6	231.6	230.6	229.5	228.5	229.5	230.6	231.6



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	261.5	261.7	261.8	261.4	260.3	259.3	258.3	257.3	258.3	259.3	260.3
115°	303.4	303.8	304.1	303.8	302.8	301.7	300.7	299.7	300.7	301.7	302.8
117.5°	345.7	346.6	347.5	347.3	346.0	344.7	343.4	342.0	343.4	344.7	346.0
120°	372.8	374.2	375.5	375.5	374.2	372.8	371.5	370.2	371.5	372.8	374.2
122.5°	400.8	401.7	402.7	402.3	400.7	399.2	397.6	396.0	397.6	399.2	400.7
125°	441.6	442.1	442.6	442.1	440.6	439.1	437.7	436.2	437.7	439.1	440.6
127.5°	482.3	482.9	483.5	482.8	480.9	479.1	477.2	475.2	477.2	479.1	480.9
130°	508.8	509.1	509.4	508.5	506.3	504.1	502.0	499.8	502.0	504.1	506.3
132.5°	535.5	535.4	535.4	534.4	532.7	531.0	529.2	527.5	529.2	531.0	532.7
135°	573.4	573.0	572.7	571.6	569.8	567.9	566.1	564.3	566.1	567.9	569.8
137.5°	611.0	610.5	610.1	609.0	607.6	606.1	604.6	603.1	604.6	606.1	607.6
140°	635.3	634.5	633.6	632.5	631.0	629.4	627.9	626.5	627.9	629.4	631.0
142.5°	658.6	658.0	657.5	656.4	655.0	653.5	652.0	650.5	652.0	653.5	655.0
145°	692.7	691.7	690.6	689.6	688.4	687.2	686.1	684.9	686.1	687.2	688.4
147.5°	723.6	723.0	722.3	721.2	719.8	718.4	717.0	715.7	717.0	718.4	719.8
150°	742.8	742.1	741.4	740.6	739.6	738.6	737.6	736.6	737.6	738.6	739.6
152.5°	761.7	760.9	760.1	759.2	758.2	757.2	756.2	755.2	756.2	757.2	758.2
155°	786.6	786.1	785.6	785.1	784.6	784.1	783.6	783.0	783.6	784.1	784.6
157.5°	809.2	808.9	808.6	808.3	807.9	807.6	807.3	806.9	807.3	807.6	807.9
160°	823.2	823.0	822.9	822.6	822.3	821.9	821.6	821.3	821.6	821.9	822.3
162.5°	835.3	835.1	834.9	834.8	834.7	834.7	834.6	834.5	834.6	834.7	834.7
165°	851.3	851.3	851.3	851.4	851.5	851.7	851.8	852.0	851.8	851.7	851.5
167.5°	864.3	864.4	864.4	864.7	865.3	865.8	866.3	866.8	866.3	865.8	865.3
170°	871.8	872.0	872.2	872.5	873.0	873.5	874.0	874.5	874.0	873.5	873.0
172.5°	877.3	877.4	877.6	877.9	878.4	878.9	879.4	879.9	879.4	878.9	878.4
175°	883.4	883.7	884.1	884.5	885.0	885.6	886.1	886.5	886.1	885.6	885.0
177.5°	886.8	887.0	887.3	887.6	888.0	888.4	888.8	889.2	888.8	888.4	888.0
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	968.4	966.5	960.2	956.8	951.5	946.3	943.0	944.5	945.7	945.1	944.2
5°	940.6	933.4	922.5	913.0	906.3	893.8	888.6	886.0	883.6	881.0	878.4
7.5°	907.6	896.3	880.6	867.2	854.4	839.0	830.2	824.9	819.4	813.4	808.2
10°	884.0	868.2	851.6	832.7	817.7	803.7	791.2	782.9	775.4	768.2	763.0
12.5°	859.3	841.0	820.5	794.8	778.1	758.1	756.3	741.6	729.8	725.4	719.2
15°	819.9	794.3	768.2	737.7	724.5	706.4	695.1	683.8	673.6	666.4	664.5
17.5°	775.2	741.9	716.1	694.2	672.6	654.0	643.6	634.5	626.1	616.5	615.3
20°	741.0	712.5	684.2	664.9	642.7	623.8	611.0	601.9	594.7	589.1	584.2
22.5°	708.8	677.4	651.6	630.5	608.5	593.3	583.2	574.5	568.6	562.3	557.6
25°	657.0	632.5	604.2	580.5	562.3	552.5	544.2	536.6	532.9	528.8	523.5
27.5°	611.7	584.4	558.0	539.6	523.6	514.9	509.1	503.9	500.4	498.0	494.9
30°	579.7	552.1	531.4	513.3	500.1	491.4	487.7	484.6	480.5	479.0	477.5
32.5°	548.9	524.1	506.3	490.7	478.1	472.4	469.0	466.3	463.0	461.5	458.5
35°	505.3	484.6	467.3	458.6	448.4	443.5	440.9	437.1	434.1	432.6	432.2
37.5°	464.4	446.4	434.9	423.8	419.5	416.5	412.9	410.3	409.4	409.2	408.8
40°	437.9	423.1	412.9	403.9	402.0	397.5	394.5	392.2	392.2	392.6	392.2
42.5°	413.7	400.5	391.5	383.7	381.5	378.8	375.8	375.7	376.3	377.5	376.3
45°	377.2	367.7	361.3	357.5	353.4	350.7	350.3	351.5	351.8	352.2	353.4
47.5°	343.5	337.2	331.4	327.3	325.5	325.0	324.6	326.5	328.3	329.0	330.7
50°	323.6	316.4	311.5	308.9	307.4	306.6	307.4	309.6	311.1	313.1	314.2
52.5°	301.2	296.2	292.9	290.7	290.1	290.6	290.7	293.4	295.8	296.4	297.0
55°	270.4	266.6	265.9	262.5	264.0	263.6	265.5	267.0	269.2	271.6	272.0
57.5°	239.6	236.6	234.6	234.9	235.3	237.0	238.5	241.3	243.7	246.0	246.3
60°	219.1	217.6	216.5	216.5	217.2	219.5	221.4	224.0	225.5	227.0	228.1
62.5°	200.5	198.9	197.7	198.3	200.4	201.7	203.9	205.3	206.8	208.3	208.8
65°	170.9	170.1	171.3	172.0	172.4	174.2	176.9	178.0	179.6	180.3	182.9
67.5°	143.6	143.8	143.6	144.7	146.8	147.3	149.8	152.5	152.8	154.2	155.9
70°	125.2	125.9	126.7	127.4	129.4	130.1	132.0	133.1	134.6	135.7	136.9
72.5°	108.4	108.5	109.3	109.1	110.7	112.3	113.9	115.0	116.5	118.0	119.1
75°	83.3	83.3	84.1	84.5	86.3	88.3	87.9	88.7	90.2	91.7	92.4
77.5°	60.9	60.1	60.9	61.2	61.8	63.4	63.7	64.8	66.6	66.0	66.9
80°	46.4	45.2	46.4	46.8	46.8	48.7	48.7	49.4	50.5	49.4	50.5
82.5°	33.1	32.6	33.4	33.5	34.1	34.1	34.7	34.9	36.1	35.5	36.1
85°	16.6	16.3	16.6	16.3	16.6	17.0	17.0	16.6	16.6	17.4	16.3
87.5°	6.9	7.2	7.6	8.3	8.8	9.2	8.8	8.7	8.7	8.0	8.0
90°	8.8	11.6	15.2	18.9	22.5	26.3	25.9	25.5	25.2	24.9	24.8
92.5°	19.2	20.4	21.2	22.1	22.9	23.8	23.9	23.9	24.0	24.1	24.1
95°	45.6	46.7	47.0	47.3	47.7	48.0	48.0	48.0	48.0	48.0	47.8
97.5°	77.1	78.1	78.8	79.4	80.0	80.6	80.6	80.6	80.6	80.6	80.6
100°	100.5	101.4	101.9	102.4	102.9	103.4	103.4	103.4	103.4	103.4	103.3
102.5°	124.6	125.4	126.1	126.7	127.3	127.9	128.2	128.3	128.4	128.6	128.6
105°	163.1	163.5	163.9	164.2	164.5	164.9	165.2	165.5	165.8	166.2	166.3
107.5°	205.1	205.5	205.5	205.5	205.5	205.5	205.6	205.7	205.9	206.0	205.7
110°	232.6	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	232.8



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	261.4	261.8	261.7	261.5	261.4	261.3	260.8	260.4	260.0	259.6	259.2
115°	303.8	304.1	303.8	303.4	303.1	302.8	302.6	302.5	302.3	302.1	301.7
117.5°	347.3	347.5	346.6	345.7	344.8	343.9	343.5	343.1	342.6	342.2	341.7
120°	375.5	375.5	374.2	372.8	371.5	370.2	370.2	370.2	370.2	370.2	369.9
122.5°	402.3	402.7	401.7	400.8	399.9	399.0	398.6	398.2	397.8	397.4	397.0
125°	442.1	442.6	442.1	441.6	441.1	440.6	440.1	439.6	439.1	438.6	438.3
127.5°	482.8	483.5	482.9	482.3	481.7	481.1	480.5	479.9	479.3	478.7	478.2
130°	508.5	509.4	509.1	508.8	508.4	508.1	507.8	507.5	507.1	506.8	506.2
132.5°	534.4	535.4	535.4	535.5	535.6	535.6	534.9	534.2	533.4	532.7	532.1
135°	571.6	572.7	573.0	573.4	573.7	574.0	573.8	573.7	573.5	573.4	573.0
137.5°	609.0	610.1	610.5	611.0	611.4	611.8	611.7	611.5	611.4	611.3	610.9
140°	632.5	633.6	634.5	635.3	636.1	636.9	636.9	636.9	636.9	636.9	636.6
142.5°	656.4	657.5	658.0	658.6	659.1	659.7	659.8	660.0	660.1	660.2	660.0
145°	689.6	690.6	691.7	692.7	693.7	694.7	694.8	695.0	695.2	695.3	695.1
147.5°	721.2	722.3	723.0	723.6	724.3	725.0	725.3	725.7	726.0	726.4	726.3
150°	740.6	741.4	742.1	742.8	743.5	744.2	744.7	745.1	745.6	746.1	746.1
152.5°	759.2	760.1	760.9	761.7	762.5	763.4	764.0	764.6	765.2	765.9	765.9
155°	785.1	785.6	786.1	786.6	787.1	787.6	788.4	789.2	790.1	790.9	791.1
157.5°	808.3	808.6	808.9	809.2	809.5	809.8	810.9	812.0	813.1	814.3	814.5
160°	822.6	822.9	823.0	823.2	823.3	823.5	824.6	825.6	826.6	827.6	827.7
162.5°	834.8	834.9	835.1	835.3	835.4	835.6	836.7	837.8	839.0	840.1	840.2
165°	851.4	851.3	851.3	851.3	851.3	851.3	852.4	853.6	854.7	856.0	856.2
167.5°	864.7	864.4	864.4	864.3	864.3	864.3	865.5	866.7	867.8	869.0	869.1
170°	872.5	872.2	872.0	871.8	871.7	871.5	872.7	873.8	875.0	876.2	876.3
172.5°	877.9	877.6	877.4	877.3	877.1	876.9	878.1	879.3	880.4	881.6	881.6
175°	884.5	884.1	883.7	883.4	883.1	882.7	883.9	885.0	886.3	887.5	887.5
177.5°	887.6	887.3	887.0	886.8	886.5	886.2	887.0	887.8	888.6	889.4	889.4
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	941.2	940.6	940.6	937.9	940.6	940.6	941.2	944.2	945.1	945.7	944.5
5°	873.1	871.9	870.1	871.9	870.1	871.9	873.1	878.4	881.0	883.6	886.0
7.5°	805.8	801.2	800.5	796.1	800.5	801.2	805.8	808.2	813.4	819.4	824.9
10°	756.6	753.6	753.2	746.0	753.2	753.6	756.6	763.0	768.2	775.4	782.9
12.5°	719.1	711.9	713.4	709.2	713.4	711.9	719.1	719.2	725.4	729.8	741.6
15°	654.3	654.3	652.9	646.4	652.9	654.3	654.3	664.5	666.4	673.6	683.8
17.5°	607.8	607.0	603.4	605.2	603.4	607.0	607.8	615.3	616.5	626.1	634.5
20°	580.1	577.7	573.3	573.3	573.3	577.7	580.1	584.2	589.1	594.7	601.9
22.5°	553.8	553.6	548.9	550.4	548.9	553.6	553.8	557.6	562.3	568.6	574.5
25°	523.1	520.1	517.9	519.0	517.9	520.1	523.1	523.5	528.8	532.9	536.6
27.5°	494.0	492.3	492.2	489.1	492.2	492.3	494.0	494.9	498.0	500.4	503.9
30°	477.1	473.3	474.0	472.2	474.0	473.3	477.1	477.5	479.0	480.5	484.6
32.5°	457.8	456.5	455.7	454.0	455.7	456.5	457.8	458.5	461.5	463.0	466.3
35°	431.4	431.8	429.9	430.7	429.9	431.8	431.4	432.2	432.6	434.1	437.1
37.5°	408.5	409.7	408.8	409.0	408.8	409.7	408.5	408.8	409.2	409.4	410.3
40°	393.3	393.3	393.3	394.5	393.3	393.3	393.3	392.2	392.6	392.2	392.2
42.5°	378.9	378.3	377.7	377.6	377.7	378.3	378.9	376.3	377.5	376.3	375.7
45°	354.2	355.3	355.7	353.8	355.7	355.3	354.2	353.4	352.2	351.8	351.5
47.5°	331.7	331.8	331.7	333.4	331.7	331.8	331.7	330.7	329.0	328.3	326.5
50°	316.1	315.3	316.1	315.3	316.1	315.3	316.1	314.2	313.1	311.1	309.6
52.5°	299.4	299.6	299.1	299.0	299.1	299.6	299.4	297.0	296.4	295.8	293.4
55°	273.5	274.2	273.8	273.8	273.8	274.2	273.5	272.0	271.6	269.2	267.0
57.5°	246.5	247.2	247.7	246.0	247.7	247.2	246.5	246.3	246.0	243.7	241.3
60°	227.8	229.6	229.3	228.5	229.3	229.6	227.8	228.1	227.0	225.5	224.0
62.5°	210.6	211.3	211.2	211.1	211.2	211.3	210.6	208.8	208.3	206.8	205.3
65°	184.0	184.8	183.7	184.8	183.7	184.8	184.0	182.9	180.3	179.6	178.0
67.5°	155.4	155.7	156.5	157.0	156.5	155.7	155.4	155.9	154.2	152.8	152.5
70°	137.6	137.2	138.5	139.6	138.5	137.2	137.6	136.9	135.7	134.6	133.1
72.5°	119.0	119.8	119.4	120.3	119.4	119.8	119.0	119.1	118.0	116.5	115.0
75°	91.7	92.8	92.4	93.5	92.4	92.8	91.7	92.4	91.7	90.2	88.7
77.5°	66.2	66.3	66.2	66.9	66.2	66.3	66.2	66.9	66.0	66.6	64.8
80°	50.5	49.8	49.0	50.5	49.0	49.8	50.5	50.5	49.4	50.5	49.4
82.5°	35.1	35.6	34.8	34.8	34.8	35.6	35.1	36.1	35.5	36.1	34.9
85°	16.3	15.9	15.0	15.0	15.0	15.9	16.3	16.3	17.4	16.6	16.6
87.5°	8.0	7.8	7.8	7.5	7.8	7.8	8.0	8.0	8.0	8.7	8.7
90°	24.9	25.1	25.3	25.4	25.3	25.1	24.9	24.8	24.9	25.2	25.5
92.5°	24.1	24.2	24.2	24.2	24.2	24.2	24.1	24.1	24.1	24.0	23.9
95°	47.5	47.2	46.8	46.5	46.8	47.2	47.5	47.8	48.0	48.0	48.0
97.5°	80.6	80.6	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6
100°	103.2	103.0	102.8	102.7	102.8	103.0	103.2	103.3	103.4	103.4	103.4
102.5°	128.4	128.2	128.1	127.8	128.1	128.2	128.4	128.6	128.6	128.4	128.3
105°	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.2	165.8	165.5
107.5°	204.9	204.2	203.4	202.7	203.4	204.2	204.9	205.7	206.0	205.9	205.7
110°	232.3	231.8	231.3	230.9	231.3	231.8	232.3	232.8	233.1	233.1	233.1



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	258.9	258.5	258.1	257.8	258.1	258.5	258.9	259.2	259.6	260.0	260.4
115°	301.2	300.7	300.2	299.7	300.2	300.7	301.2	301.7	302.1	302.3	302.5
117.5°	341.2	340.7	340.2	339.7	340.2	340.7	341.2	341.7	342.2	342.6	343.1
120°	369.4	368.9	368.4	367.9	368.4	368.9	369.4	369.9	370.2	370.2	370.2
122.5°	396.6	396.3	395.9	395.6	395.9	396.3	396.6	397.0	397.4	397.8	398.2
125°	438.2	438.0	437.8	437.7	437.8	438.0	438.2	438.3	438.6	439.1	439.6
127.5°	477.6	477.1	476.6	476.1	476.6	477.1	477.6	478.2	478.7	479.3	479.9
130°	505.5	504.9	504.2	503.6	504.2	504.9	505.5	506.2	506.8	507.1	507.5
132.5°	531.6	531.0	530.5	530.0	530.5	531.0	531.6	532.1	532.7	533.4	534.2
135°	572.5	572.0	571.5	571.0	571.5	572.0	572.5	573.0	573.4	573.5	573.7
137.5°	610.2	609.6	608.8	608.1	608.8	609.6	610.2	610.9	611.3	611.4	611.5
140°	636.0	635.3	634.6	634.0	634.6	635.3	636.0	636.6	636.9	636.9	636.9
142.5°	659.3	658.6	658.0	657.3	658.0	658.6	659.3	660.0	660.2	660.1	660.0
145°	694.4	693.8	693.1	692.5	693.1	693.8	694.4	695.1	695.3	695.2	695.0
147.5°	725.7	725.0	724.4	723.8	724.4	725.0	725.7	726.3	726.4	726.0	725.7
150°	745.6	745.1	744.7	744.2	744.7	745.1	745.6	746.1	746.1	745.6	745.1
152.5°	765.2	764.6	764.0	763.4	764.0	764.6	765.2	765.9	765.9	765.2	764.6
155°	790.6	790.1	789.6	789.1	789.6	790.1	790.6	791.1	790.9	790.1	789.2
157.5°	813.6	812.8	812.0	811.2	812.0	812.8	813.6	814.5	814.3	813.1	812.0
160°	827.1	826.4	825.8	825.1	825.8	826.4	827.1	827.7	827.6	826.6	825.6
162.5°	839.4	838.7	837.9	837.1	837.9	838.7	839.4	840.2	840.1	839.0	837.8
165°	855.3	854.4	853.6	852.8	853.6	854.4	855.3	856.2	856.0	854.7	853.6
167.5°	868.3	867.4	866.6	865.7	866.6	867.4	868.3	869.1	869.0	867.8	866.7
170°	875.3	874.2	873.2	872.2	873.2	874.2	875.3	876.3	876.2	875.0	873.8
172.5°	880.7	879.7	878.7	877.7	878.7	879.7	880.7	881.6	881.6	880.4	879.3
175°	886.5	885.6	884.5	883.5	884.5	885.6	886.5	887.5	887.5	886.3	885.0
177.5°	888.6	887.8	887.0	886.2	887.0	887.8	888.6	889.4	889.4	888.6	887.8
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	943.0	946.3	951.5	956.8	960.2	966.5	968.4	971.4	974.1	980.4	987.0
5°	888.6	893.8	906.3	913.0	922.5	933.4	940.6	948.2	956.4	970.8	984.0
7.5°	830.2	839.0	854.4	867.2	880.6	896.3	907.6	922.5	934.8	955.0	974.4
10°	791.2	803.7	817.7	832.7	851.6	868.2	884.0	902.9	918.0	942.1	964.7
12.5°	756.3	758.1	778.1	794.8	820.5	841.0	859.3	883.5	898.4	927.1	950.9
15°	695.1	706.4	724.5	737.7	768.2	794.3	819.9	845.2	862.1	897.6	928.9
17.5°	643.6	654.0	672.6	694.2	716.1	741.9	775.2	801.8	824.9	865.4	902.4
20°	611.0	623.8	642.7	664.9	684.2	712.5	741.0	771.6	796.5	842.1	885.6
22.5°	583.2	593.3	608.5	630.5	651.6	677.4	708.8	742.0	768.2	817.4	861.4
25°	544.2	552.5	562.3	580.5	604.2	632.5	657.0	693.6	731.6	777.7	830.8
27.5°	509.1	514.9	523.6	539.6	558.0	584.4	611.7	646.3	684.7	734.6	790.7
30°	487.7	491.4	500.1	513.3	531.4	552.1	579.7	612.9	652.1	702.7	758.4
32.5°	469.0	472.4	478.1	490.7	506.3	524.1	548.9	582.1	619.5	669.1	730.9
35°	440.9	443.5	448.4	458.6	467.3	484.6	505.3	535.5	570.6	618.1	682.3
37.5°	412.9	416.5	419.5	423.8	434.9	446.4	464.4	489.9	524.3	572.3	633.4
40°	394.5	397.5	402.0	403.9	412.9	423.1	437.9	461.2	495.9	539.7	599.3
42.5°	375.8	378.8	381.5	383.7	391.5	400.5	413.7	433.8	464.5	507.2	566.1
45°	350.3	350.7	353.4	357.5	361.3	367.7	377.2	394.5	418.3	458.3	511.8
47.5°	324.6	325.0	325.5	327.3	331.4	337.2	343.5	357.6	378.9	410.8	462.9
50°	307.4	306.6	307.4	308.9	311.5	316.4	323.6	333.8	351.1	380.9	428.8
52.5°	290.7	290.6	290.1	290.7	292.9	296.2	301.2	309.9	325.5	352.8	395.1
55°	265.5	263.6	264.0	262.5	265.9	266.6	270.4	277.6	291.1	310.0	349.6
57.5°	238.5	237.0	235.3	234.9	234.6	236.6	239.6	245.3	255.7	272.3	304.4
60°	221.4	219.5	217.2	216.5	216.5	217.6	219.1	223.3	233.1	247.8	274.2
62.5°	203.9	201.7	200.4	198.3	197.7	198.9	200.5	203.4	210.5	224.3	247.0
65°	176.9	174.2	172.4	172.0	171.3	170.1	170.9	173.9	179.6	190.5	208.5
67.5°	149.8	147.3	146.8	144.7	143.6	143.8	143.6	146.2	149.6	159.0	172.5
70°	132.0	130.1	129.4	127.4	126.7	125.9	125.2	127.4	130.9	138.8	150.5
72.5°	113.9	112.3	110.7	109.1	109.3	108.5	108.4	109.7	112.5	119.8	128.8
75°	87.9	88.3	86.3	84.5	84.1	83.3	83.3	84.5	85.6	91.3	98.5
77.5°	63.7	63.4	61.8	61.2	60.9	60.1	60.9	61.6	62.2	66.0	71.3
80°	48.7	48.7	46.8	46.8	46.4	45.2	46.4	45.6	47.2	50.9	54.7
82.5°	34.7	34.1	34.1	33.5	33.4	32.6	33.1	33.8	34.4	37.1	39.3
85°	17.0	17.0	16.6	16.3	16.6	16.3	16.6	17.0	17.4	18.5	20.4
87.5°	8.8	9.2	8.8	8.3	7.6	7.2	6.9	6.8	7.0	6.9	6.8
90°	25.9	26.3	22.5	18.9	15.2	11.6	8.8	6.8	4.7	2.7	0.7
92.5°	23.9	23.8	22.9	22.1	21.2	20.4	19.2	17.8	16.3	14.8	13.3
95°	48.0	48.0	47.7	47.3	47.0	46.7	45.6	43.9	42.3	40.6	39.0
97.5°	80.6	80.6	80.0	79.4	78.8	78.1	77.1	75.5	74.1	72.6	71.2
100°	103.4	103.4	102.9	102.4	101.9	101.4	100.5	99.2	97.9	96.5	95.1
102.5°	128.2	127.9	127.3	126.7	126.1	125.4	124.6	123.5	122.5	121.4	120.4
105°	165.2	164.9	164.5	164.2	163.9	163.5	163.1	162.6	162.1	161.6	161.1
107.5°	205.6	205.5	205.5	205.5	205.5	205.5	205.1	204.4	203.7	202.9	202.2
110°	233.1	233.1	233.1	233.1	233.1	233.1	232.6	231.6	230.6	229.5	228.5



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.8	261.3	261.4	261.5	261.7	261.8	261.4	260.3	259.3	258.3	257.3
115°	302.6	302.8	303.1	303.4	303.8	304.1	303.8	302.8	301.7	300.7	299.7
117.5°	343.5	343.9	344.8	345.7	346.6	347.5	347.3	346.0	344.7	343.4	342.0
120°	370.2	370.2	371.5	372.8	374.2	375.5	375.5	374.2	372.8	371.5	370.2
122.5°	398.6	399.0	399.9	400.8	401.7	402.7	402.3	400.7	399.2	397.6	396.0
125°	440.1	440.6	441.1	441.6	442.1	442.6	442.1	440.6	439.1	437.7	436.2
127.5°	480.5	481.1	481.7	482.3	482.9	483.5	482.8	480.9	479.1	477.2	475.2
130°	507.8	508.1	508.4	508.8	509.1	509.4	508.5	506.3	504.1	502.0	499.8
132.5°	534.9	535.6	535.6	535.5	535.4	535.4	534.4	532.7	531.0	529.2	527.5
135°	573.8	574.0	573.7	573.4	573.0	572.7	571.6	569.8	567.9	566.1	564.3
137.5°	611.7	611.8	611.4	611.0	610.5	610.1	609.0	607.6	606.1	604.6	603.1
140°	636.9	636.9	636.1	635.3	634.5	633.6	632.5	631.0	629.4	627.9	626.5
142.5°	659.8	659.7	659.1	658.6	658.0	657.5	656.4	655.0	653.5	652.0	650.5
145°	694.8	694.7	693.7	692.7	691.7	690.6	689.6	688.4	687.2	686.1	684.9
147.5°	725.3	725.0	724.3	723.6	723.0	722.3	721.2	719.8	718.4	717.0	715.7
150°	744.7	744.2	743.5	742.8	742.1	741.4	740.6	739.6	738.6	737.6	736.6
152.5°	764.0	763.4	762.5	761.7	760.9	760.1	759.2	758.2	757.2	756.2	755.2
155°	788.4	787.6	787.1	786.6	786.1	785.6	785.1	784.6	784.1	783.6	783.0
157.5°	810.9	809.8	809.5	809.2	808.9	808.6	808.3	807.9	807.6	807.3	806.9
160°	824.6	823.5	823.3	823.2	823.0	822.9	822.6	822.3	821.9	821.6	821.3
162.5°	836.7	835.6	835.4	835.3	835.1	834.9	834.8	834.7	834.7	834.6	834.5
165°	852.4	851.3	851.3	851.3	851.3	851.3	851.4	851.5	851.7	851.8	852.0
167.5°	865.5	864.3	864.3	864.3	864.4	864.4	864.7	865.3	865.8	866.3	866.8
170°	872.7	871.5	871.7	871.8	872.0	872.2	872.5	873.0	873.5	874.0	874.5
172.5°	878.1	876.9	877.1	877.3	877.4	877.6	877.9	878.4	878.9	879.4	879.9
175°	883.9	882.7	883.1	883.4	883.7	884.1	884.5	885.0	885.6	886.1	886.5
177.5°	887.0	886.2	886.5	886.8	887.0	887.3	887.6	888.0	888.4	888.8	889.2
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	986.4	988.0	992.8	997.6	1003.0	1004.5	1006.9	1004.8	1004.2	1010.0	1014.2
5°	989.3	996.0	1009.3	1021.3	1031.5	1038.6	1046.2	1049.2	1054.9	1062.8	1072.6
7.5°	986.0	999.3	1020.1	1037.6	1056.7	1070.6	1081.4	1090.6	1101.7	1116.7	1133.1
10°	982.5	1000.2	1025.4	1046.9	1070.4	1088.0	1102.8	1117.1	1133.7	1154.5	1175.9
12.5°	975.8	996.8	1028.4	1053.9	1083.9	1101.4	1121.2	1152.1	1169.9	1198.8	1229.0
15°	962.5	985.8	1030.0	1061.3	1095.2	1128.4	1165.0	1194.4	1223.9	1240.8	1283.4
17.5°	942.6	976.9	1025.8	1062.4	1105.5	1157.7	1198.8	1232.2	1266.2	1293.6	1315.0
20°	926.7	964.0	1019.8	1063.6	1114.8	1171.0	1218.2	1252.1	1281.5	1304.5	1317.8
22.5°	906.5	953.4	1007.7	1059.0	1124.5	1180.1	1229.6	1256.4	1280.9	1292.1	1297.2
25°	874.5	931.2	992.6	1055.2	1129.1	1188.0	1233.2	1249.5	1256.7	1245.7	1227.6
27.5°	840.3	903.3	975.2	1048.1	1126.3	1182.9	1215.3	1212.7	1200.6	1165.2	1136.9
30°	814.7	884.0	961.3	1040.9	1119.3	1174.4	1193.3	1174.4	1146.9	1107.3	1066.9
32.5°	787.8	859.6	946.5	1030.7	1106.7	1155.1	1159.2	1126.7	1084.1	1039.2	988.8
35°	747.1	824.9	918.7	1007.7	1079.7	1110.3	1092.2	1034.9	984.3	922.9	854.2
37.5°	701.1	787.0	881.1	974.1	1039.5	1047.4	1002.5	942.1	870.8	798.6	717.8
40°	666.8	757.7	854.6	948.5	1006.2	997.9	940.6	874.2	789.3	701.1	626.0
42.5°	636.0	726.9	825.7	917.8	964.0	941.2	874.2	792.7	701.6	618.4	549.8
45°	582.7	676.2	777.3	866.3	892.7	851.6	763.0	672.5	582.7	513.3	459.0
47.5°	531.0	623.4	723.5	801.7	811.1	755.8	658.9	565.8	488.7	432.1	393.8
50°	492.9	585.7	684.9	754.7	751.6	684.9	585.3	496.7	432.2	386.6	360.9
52.5°	458.8	546.4	641.8	705.2	689.2	616.4	521.4	442.7	389.7	354.0	330.7
55°	405.8	486.9	577.4	628.3	599.0	518.2	437.9	374.5	335.3	308.5	290.4
57.5°	353.1	429.2	506.6	538.1	505.5	431.0	364.1	318.1	288.6	268.7	257.0
60°	320.5	387.0	456.0	483.1	444.2	377.9	325.1	284.0	260.2	244.0	233.5
62.5°	288.0	347.4	412.5	427.3	391.7	335.7	288.9	254.7	235.2	220.8	210.9
65°	243.7	292.3	341.7	351.5	318.7	275.3	238.3	216.1	198.7	188.2	180.3
67.5°	199.9	238.8	273.9	281.8	253.1	223.0	196.2	176.9	165.1	156.3	149.7
70°	173.9	204.8	233.5	239.8	216.8	190.1	169.8	154.2	143.7	136.1	129.8
72.5°	146.4	172.2	196.0	200.4	181.6	161.1	144.4	132.2	122.9	118.1	111.9
75°	112.0	127.1	145.6	146.7	134.3	121.8	109.0	101.1	96.1	90.2	87.2
77.5°	79.1	90.9	101.5	103.5	96.1	87.7	80.5	74.2	70.1	67.3	64.5
80°	60.4	69.8	74.3	77.0	71.7	65.6	61.5	57.4	54.7	52.8	50.9
82.5°	43.1	49.0	53.2	55.2	52.3	48.8	44.5	42.2	40.2	38.6	38.0
85°	21.9	24.5	27.2	27.9	27.2	25.7	23.4	23.4	22.2	21.9	21.9
87.5°	8.1	9.7	10.1	11.4	11.4	12.1	12.8	13.2	13.7	13.3	12.9
90°	2.7	4.7	6.8	8.8	11.6	15.2	18.9	22.5	26.3	25.9	25.5
92.5°	14.8	16.3	17.8	19.2	20.4	21.2	22.1	22.9	23.8	23.9	23.9
95°	40.6	42.3	43.9	45.6	46.7	47.0	47.3	47.7	48.0	48.0	48.0
97.5°	72.6	74.1	75.5	77.1	78.1	78.8	79.4	80.0	80.6	80.6	80.6
100°	96.5	97.9	99.2	100.5	101.4	101.9	102.4	102.9	103.4	103.4	103.4
102.5°	121.4	122.5	123.5	124.6	125.4	126.1	126.7	127.3	127.9	128.2	128.3
105°	161.6	162.1	162.6	163.1	163.5	163.9	164.2	164.5	164.9	165.2	165.5
107.5°	202.9	203.7	204.4	205.1	205.5	205.5	205.5	205.5	205.5	205.6	205.7
110°	229.5	230.6	231.6	232.6	233.1	233.1	233.1	233.1	233.1	233.1	233.1



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	258.3	259.3	260.3	261.4	261.8	261.7	261.5	261.4	261.3	260.8	260.4
115°	300.7	301.7	302.8	303.8	304.1	303.8	303.4	303.1	302.8	302.6	302.5
117.5°	343.4	344.7	346.0	347.3	347.5	346.6	345.7	344.8	343.9	343.5	343.1
120°	371.5	372.8	374.2	375.5	375.5	374.2	372.8	371.5	370.2	370.2	370.2
122.5°	397.6	399.2	400.7	402.3	402.7	401.7	400.8	399.9	399.0	398.6	398.2
125°	437.7	439.1	440.6	442.1	442.6	442.1	441.6	441.1	440.6	440.1	439.6
127.5°	477.2	479.1	480.9	482.8	483.5	482.9	482.3	481.7	481.1	480.5	479.9
130°	502.0	504.1	506.3	508.5	509.4	509.1	508.8	508.4	508.1	507.8	507.5
132.5°	529.2	531.0	532.7	534.4	535.4	535.4	535.5	535.6	535.6	534.9	534.2
135°	566.1	567.9	569.8	571.6	572.7	573.0	573.4	573.7	574.0	573.8	573.7
137.5°	604.6	606.1	607.6	609.0	610.1	610.5	611.0	611.4	611.8	611.7	611.5
140°	627.9	629.4	631.0	632.5	633.6	634.5	635.3	636.1	636.9	636.9	636.9
142.5°	652.0	653.5	655.0	656.4	657.5	658.0	658.6	659.1	659.7	659.8	660.0
145°	686.1	687.2	688.4	689.6	690.6	691.7	692.7	693.7	694.7	694.8	695.0
147.5°	717.0	718.4	719.8	721.2	722.3	723.0	723.6	724.3	725.0	725.3	725.7
150°	737.6	738.6	739.6	740.6	741.4	742.1	742.8	743.5	744.2	744.7	745.1
152.5°	756.2	757.2	758.2	759.2	760.1	760.9	761.7	762.5	763.4	764.0	764.6
155°	783.6	784.1	784.6	785.1	785.6	786.1	786.6	787.1	787.6	788.4	789.2
157.5°	807.3	807.6	807.9	808.3	808.6	808.9	809.2	809.5	809.8	810.9	812.0
160°	821.6	821.9	822.3	822.6	822.9	823.0	823.2	823.3	823.5	824.6	825.6
162.5°	834.6	834.7	834.7	834.8	834.9	835.1	835.3	835.4	835.6	836.7	837.8
165°	851.8	851.7	851.5	851.4	851.3	851.3	851.3	851.3	851.3	852.4	853.6
167.5°	866.3	865.8	865.3	864.7	864.4	864.4	864.3	864.3	864.3	865.5	866.7
170°	874.0	873.5	873.0	872.5	872.2	872.0	871.8	871.7	871.5	872.7	873.8
172.5°	879.4	878.9	878.4	877.9	877.6	877.4	877.3	877.1	876.9	878.1	879.3
175°	886.1	885.6	885.0	884.5	884.1	883.7	883.4	883.1	882.7	883.9	885.0
177.5°	888.8	888.4	888.0	887.6	887.3	887.0	886.8	886.5	886.2	887.0	887.8
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1017.8	1022.1	1022.1	1022.7	1027.4	1026.9	1026.6
5°	1083.2	1089.5	1090.4	1097.1	1101.7	1100.1	1096.0
7.5°	1144.8	1156.7	1165.8	1170.8	1176.8	1180.4	1178.8
10°	1193.7	1211.0	1221.5	1228.7	1237.4	1243.9	1241.5
12.5°	1238.0	1258.7	1273.1	1285.5	1286.6	1294.8	1289.2
15°	1307.2	1329.1	1331.3	1340.4	1347.6	1346.8	1347.2
17.5°	1330.0	1337.1	1338.5	1338.7	1338.8	1336.2	1330.4
20°	1321.9	1319.3	1312.8	1308.0	1299.3	1298.1	1290.6
22.5°	1283.2	1274.9	1258.8	1248.2	1234.7	1231.1	1229.0
25°	1207.2	1188.7	1163.1	1138.6	1131.8	1118.6	1122.4
27.5°	1102.9	1074.1	1046.3	1026.4	1008.5	988.7	994.3
30°	1029.6	997.1	958.0	927.8	908.6	889.7	886.3
32.5°	942.1	894.5	850.8	824.3	794.8	782.8	769.8
35°	791.2	744.9	701.5	664.2	642.7	626.0	611.0
37.5°	655.5	602.2	567.1	536.9	521.4	511.9	514.2
40°	571.4	524.6	499.0	475.9	461.6	454.8	456.4
42.5°	503.2	468.2	447.1	431.3	421.2	417.4	416.5
45°	425.8	406.2	388.8	379.8	374.9	370.7	368.1
47.5°	373.0	357.0	347.2	341.8	337.5	333.4	333.3
50°	341.3	330.7	324.0	318.3	314.9	311.8	314.6
52.5°	317.2	307.5	300.7	295.7	294.4	291.6	291.6
55°	281.3	273.8	268.9	264.4	262.2	260.6	258.7
57.5°	248.7	241.6	237.1	234.2	229.9	228.4	227.8
60°	225.5	219.8	215.3	211.6	209.6	206.7	206.7
62.5°	204.1	198.4	194.2	191.4	188.2	187.0	187.3
65°	173.1	168.5	164.4	161.4	160.7	158.4	159.2
67.5°	144.6	141.6	137.2	135.5	134.1	132.9	132.0
70°	125.6	122.6	120.3	118.1	116.9	116.9	116.9
72.5°	109.6	105.9	104.6	101.8	102.4	101.2	100.0
75°	84.8	82.6	81.5	80.3	78.5	78.5	78.5
77.5°	62.4	61.8	60.4	59.2	58.8	58.4	58.6
80°	48.3	47.9	47.2	47.2	46.4	46.0	45.2
82.5°	37.1	36.2	35.6	35.3	35.2	35.1	35.0
85°	21.1	20.4	20.4	20.7	20.0	20.0	20.4
87.5°	13.2	13.1	12.8	12.8	13.1	12.9	12.9
90°	25.2	24.9	24.8	24.9	25.1	25.3	25.4
92.5°	24.0	24.1	24.1	24.1	24.2	24.2	24.2
95°	48.0	48.0	47.8	47.5	47.2	46.8	46.5
97.5°	80.6	80.6	80.6	80.6	80.6	80.5	80.5
100°	103.4	103.4	103.3	103.2	103.0	102.8	102.7
102.5°	128.4	128.6	128.6	128.4	128.2	128.1	127.8
105°	165.8	166.2	166.3	166.3	166.3	166.3	166.3
107.5°	205.9	206.0	205.7	204.9	204.2	203.4	202.7
110°	233.1	233.1	232.8	232.3	231.8	231.3	230.9



TEST NUMBER: P331502-840

CATALOG NUMBER: S122DIW-S485D710U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	260.0	259.6	259.2	258.9	258.5	258.1	257.8
115°	302.3	302.1	301.7	301.2	300.7	300.2	299.7
117.5°	342.6	342.2	341.7	341.2	340.7	340.2	339.7
120°	370.2	370.2	369.9	369.4	368.9	368.4	367.9
122.5°	397.8	397.4	397.0	396.6	396.3	395.9	395.6
125°	439.1	438.6	438.3	438.2	438.0	437.8	437.7
127.5°	479.3	478.7	478.2	477.6	477.1	476.6	476.1
130°	507.1	506.8	506.2	505.5	504.9	504.2	503.6
132.5°	533.4	532.7	532.1	531.6	531.0	530.5	530.0
135°	573.5	573.4	573.0	572.5	572.0	571.5	571.0
137.5°	611.4	611.3	610.9	610.2	609.6	608.8	608.1
140°	636.9	636.9	636.6	636.0	635.3	634.6	634.0
142.5°	660.1	660.2	660.0	659.3	658.6	658.0	657.3
145°	695.2	695.3	695.1	694.4	693.8	693.1	692.5
147.5°	726.0	726.4	726.3	725.7	725.0	724.4	723.8
150°	745.6	746.1	746.1	745.6	745.1	744.7	744.2
152.5°	765.2	765.9	765.9	765.2	764.6	764.0	763.4
155°	790.1	790.9	791.1	790.6	790.1	789.6	789.1
157.5°	813.1	814.3	814.5	813.6	812.8	812.0	811.2
160°	826.6	827.6	827.7	827.1	826.4	825.8	825.1
162.5°	839.0	840.1	840.2	839.4	838.7	837.9	837.1
165°	854.7	856.0	856.2	855.3	854.4	853.6	852.8
167.5°	867.8	869.0	869.1	868.3	867.4	866.6	865.7
170°	875.0	876.2	876.3	875.3	874.2	873.2	872.2
172.5°	880.4	881.6	881.6	880.7	879.7	878.7	877.7
175°	886.3	887.5	887.5	886.5	885.6	884.5	883.5
177.5°	888.6	889.4	889.4	888.6	887.8	887.0	886.2
180°	888.0	888.0	888.0	888.0	888.0	888.0	888.0

(END OF REPORT)