

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: P331305-840

Luminaire Tested: **S122DIP-S485D725U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331305-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S485D725U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5025.2 lumens
Efficiency: N/A
Efficacy: 130.9 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

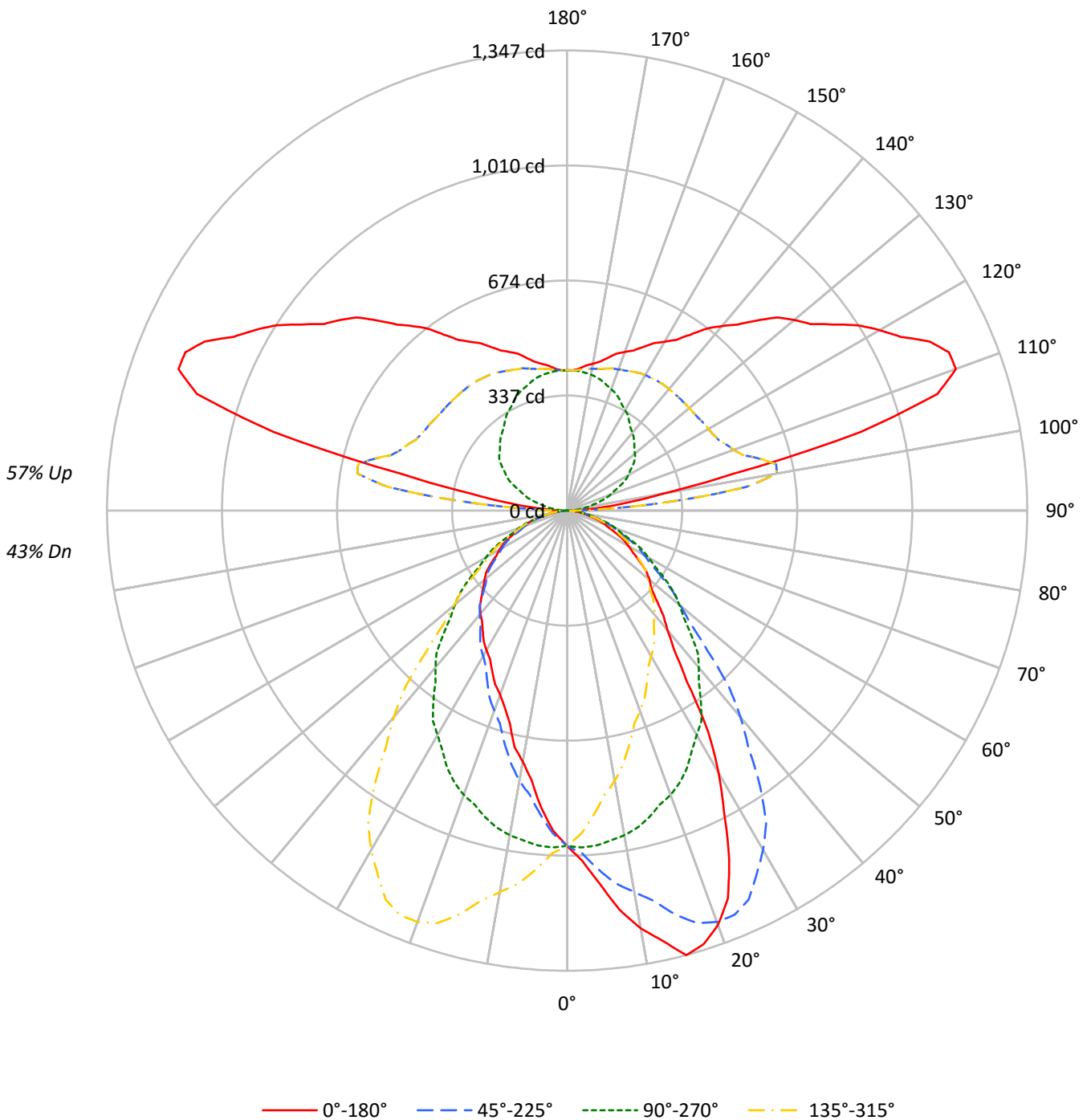
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43				
1	97	93	89	85	88	85	82	79	70	68	66	57	55	54	45	44	43	37				
2	88	81	75	70	81	75	70	65	62	58	55	50	48	46	40	38	37	32				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	27				
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	26	24	21				
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	27	24	22	19				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17				
8	54	42	35	29	49	39	32	28	33	28	24	28	24	21	22	20	18	15				
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14				
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.9
10°-20°	271.7	5.4
20°-30°	394.3	7.8
30°-40°	416.1	8.3
40°-50°	368.4	7.3
50°-60°	294.0	5.9
60°-70°	199.8	4.0
70°-80°	102.5	2.0
80°-90°	28.4	0.6
90°-100°	164.1	3.3
100°-110°	557.0	11.1
110°-120°	591.7	11.8
120°-130°	487.1	9.7
130°-140°	391.2	7.8
140°-150°	295.6	5.9
150°-160°	207.7	4.1
160°-170°	122.3	2.4
170°-180°	39.8	0.8
0°-30°	759.5	15.1
0°-40°	1175.6	23.4
0°-60°	1838.0	36.6
0°-90°	2168.7	43.2
90°-120°	1312.8	26.1
90°-150°	2486.7	49.5
90°-180°	2856.0	56.8
0°-180°	5025.2	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°	26	1	26	1	26	15
95°	90	28	90	28	90	117
105°	890	96	890	96	890	861
115°	1171	170	1171	170	1171	1146
125°	950	237	950	237	950	858
135°	787	278	787	278	787	611
145°	628	317	628	317	628	399
155°	528	361	528	361	528	246
165°	463	393	463	393	463	132
175°	418	410	418	410	418	41
180°	410	410	410	410	410	



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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°	13.0	13.0	13.3	13.0	13.0	13.2	12.9	12.9	13.3	13.8	13.9
90°	26.1	26.1	26.1	26.1	26.1	25.2	23.7	25.2	26.1	26.9	26.1
92.5°	43.7	45.0	44.3	46.9	47.6	52.4	59.1	68.9	86.6	102.6	101.2
95°	90.0	89.2	91.6	97.9	108.2	125.5	158.6	206.8	270.7	309.4	274.0
97.5°	177.1	183.8	195.3	214.7	252.5	309.4	394.9	482.6	554.2	528.3	397.9
100°	282.6	296.8	319.7	353.7	419.2	514.7	622.9	720.7	737.3	623.6	429.4
102.5°	497.4	516.5	545.1	603.1	674.3	775.5	854.6	876.8	805.5	626.8	417.5
105°	889.7	900.7	934.6	983.6	1032.6	1058.6	1048.3	959.2	795.0	584.9	393.9
107.5°	1136.4	1151.1	1157.9	1160.6	1154.5	1116.2	1034.1	899.8	725.6	540.1	382.2
110°	1210.9	1211.7	1204.7	1189.6	1155.7	1091.0	990.0	848.6	682.1	518.7	379.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1209.7	1205.5	1192.0	1166.9	1119.7	1045.5	937.5	801.9	651.8	504.7	380.3
115°	1170.7	1163.6	1143.1	1106.7	1050.7	969.4	866.0	744.4	614.2	489.5	383.6
117.5°	1101.1	1095.1	1073.5	1035.1	978.0	901.7	807.9	701.1	590.5	482.0	389.3
120°	1056.2	1048.3	1025.4	988.4	933.1	861.2	777.6	679.6	577.8	477.6	393.1
122.5°	1009.5	1002.9	982.5	946.0	896.5	831.5	752.3	662.7	567.1	475.0	397.6
125°	949.7	943.3	923.6	893.6	847.8	788.6	719.1	637.8	551.8	470.5	404.1
127.5°	897.3	892.2	875.1	847.1	807.1	752.5	686.9	613.4	537.6	467.8	411.0
130°	867.6	861.2	845.5	818.6	779.9	727.8	665.5	597.5	528.2	466.6	416.1
132.5°	836.6	830.9	816.4	789.6	751.5	702.6	645.3	582.4	520.6	466.0	421.1
135°	787.1	783.9	769.7	743.7	709.6	665.5	613.4	561.3	510.0	464.9	427.1
137.5°	738.4	733.7	721.2	698.8	667.8	629.3	587.9	544.4	502.5	464.8	432.4
140°	705.0	700.2	688.3	667.8	642.6	607.8	571.6	533.6	498.2	464.1	434.9
142.5°	671.5	670.6	659.9	641.4	617.3	588.2	557.0	524.8	493.7	464.1	436.9
145°	628.3	626.0	618.1	604.7	585.7	562.9	538.4	512.3	487.9	462.6	438.9
147.5°	592.2	590.8	585.4	574.7	559.1	542.3	523.2	502.7	481.9	459.8	439.6
150°	570.8	570.0	565.2	555.7	543.9	529.7	513.1	495.7	476.8	457.9	438.9
152.5°	552.4	552.3	548.8	540.6	531.3	519.0	504.9	488.8	472.4	454.7	437.7
155°	528.2	529.7	526.5	521.0	512.3	503.6	491.8	479.2	464.1	449.2	435.8
157.5°	507.5	507.5	506.0	501.4	495.2	488.5	478.6	468.0	456.5	443.5	432.1
160°	494.1	494.1	493.4	489.5	483.9	478.4	469.7	461.0	450.8	439.7	430.2
162.5°	481.5	482.2	481.4	478.7	473.2	468.9	461.5	454.0	445.7	436.6	428.4
165°	463.4	464.1	464.1	461.0	457.9	454.7	449.2	443.6	437.4	430.2	424.7
167.5°	446.7	447.6	447.8	446.1	444.6	441.7	438.0	433.7	429.1	424.7	421.1
170°	436.6	438.1	438.9	436.6	435.8	434.1	431.0	428.7	424.7	421.5	419.2
172.5°	428.4	429.3	430.1	429.0	428.2	427.3	424.7	422.9	420.3	417.8	416.7
175°	417.6	419.2	420.0	419.2	419.2	418.4	417.6	416.8	414.4	413.6	412.8
177.5°	411.1	412.4	413.0	413.0	413.0	413.0	412.4	412.4	411.1	410.5	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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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°	13.3	12.2	11.4	11.5	10.3	10.0	8.2	6.8	7.0	7.3	7.0
90°	21.3	15.8	11.8	9.5	7.9	6.4	3.1	0.8	3.1	6.4	7.9
92.5°	78.8	53.7	35.9	28.4	23.0	19.6	13.9	9.6	13.9	19.6	23.0
95°	182.4	113.7	77.4	58.4	45.7	38.7	30.8	27.7	30.8	38.7	45.7
97.5°	245.7	150.0	104.3	82.9	68.4	57.7	49.3	45.0	49.3	57.7	68.4
100°	258.9	162.6	120.8	98.7	82.9	70.3	63.1	60.8	63.1	70.3	82.9
102.5°	259.5	174.0	135.3	113.2	96.7	84.1	77.1	75.3	77.1	84.1	96.7
105°	263.7	193.4	156.3	134.2	116.8	105.0	99.5	96.3	99.5	105.0	116.8
107.5°	274.6	213.3	177.3	155.0	137.8	126.9	121.6	119.1	121.6	126.9	137.8
110°	283.4	226.5	191.9	169.0	152.4	142.1	137.3	134.2	137.3	142.1	152.4



TEST NUMBER: P331305-840

CATALOG NUMBER: S122DIP-S485D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	292.9	239.2	205.7	182.2	166.2	156.6	151.3	148.0	151.3	156.6	166.2
115°	307.1	258.9	225.0	203.7	187.8	178.4	173.7	169.8	173.7	178.4	187.8
117.5°	322.2	277.1	245.7	223.6	208.4	200.1	195.3	192.2	195.3	200.1	208.4
120°	332.3	289.7	258.9	236.8	221.1	213.9	209.2	206.0	209.2	213.9	221.1
122.5°	341.2	301.7	272.9	250.0	234.3	226.5	221.9	219.3	221.9	226.5	234.3
125°	355.3	319.7	291.2	269.2	253.4	243.9	239.2	236.8	239.2	243.9	253.4
127.5°	368.3	336.5	308.8	286.1	270.9	260.5	253.9	250.7	253.9	260.5	270.9
130°	376.6	346.6	318.9	296.8	281.0	269.9	262.1	258.9	262.1	269.9	281.0
132.5°	384.8	355.4	329.0	306.9	290.5	278.8	270.3	266.5	270.3	278.8	290.5
135°	395.5	367.9	342.6	320.5	302.4	290.5	281.0	277.9	281.0	290.5	302.4
137.5°	403.7	378.0	353.0	332.5	314.5	301.8	292.4	288.6	292.4	301.8	314.5
140°	408.1	383.6	360.0	339.4	322.0	309.4	299.9	296.8	299.9	309.4	322.0
142.5°	411.9	388.1	365.1	345.8	329.0	316.4	307.6	305.0	307.6	316.4	329.0
145°	416.8	394.8	373.3	356.0	340.2	328.4	320.5	317.3	320.5	328.4	340.2
147.5°	419.5	400.1	380.0	364.6	351.4	340.5	333.0	330.6	333.0	340.5	351.4
150°	420.7	402.6	384.5	370.2	358.4	348.1	341.8	339.4	341.8	348.1	358.4
152.5°	421.4	405.2	388.9	375.9	364.7	355.7	349.4	348.3	349.4	355.7	364.7
155°	422.3	408.9	395.5	383.6	375.0	366.3	361.5	360.7	361.5	366.3	375.0
157.5°	422.3	411.6	400.2	390.3	383.3	375.8	371.9	371.2	371.9	375.8	383.3
160°	422.3	412.8	403.3	394.8	388.4	382.0	378.9	378.1	378.9	382.0	388.4
162.5°	421.7	413.5	405.3	398.5	392.8	387.8	384.6	385.1	384.6	387.8	392.8
165°	420.0	414.4	407.4	402.6	398.7	393.9	392.3	393.1	392.3	393.9	398.7
167.5°	418.9	414.2	409.1	406.1	403.2	400.2	398.8	399.8	398.8	400.2	403.2
170°	417.6	413.6	409.7	407.4	405.8	403.3	402.6	404.1	402.6	403.3	405.8
172.5°	415.7	413.0	410.3	408.6	407.7	405.3	405.8	406.7	405.8	405.3	407.7
175°	413.6	412.0	410.5	409.7	409.7	408.1	408.9	409.7	408.9	408.1	409.7
177.5°	412.4	411.1	410.5	410.5	410.5	409.2	409.9	411.1	409.9	409.2	410.5
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331305-840

CATALOG NUMBER: S122DIP-S485D725U840-4F0-1E-UDD-A4

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°	7.1	7.2	7.7	8.8	9.4	9.3	8.8	8.7	8.4	8.1	8.2
90°	9.5	11.8	15.8	21.3	26.1	26.9	26.1	25.2	23.7	25.2	26.1
92.5°	28.4	35.9	53.7	78.8	101.2	102.6	86.6	68.9	59.1	52.4	47.6
95°	58.4	77.4	113.7	182.4	274.0	309.4	270.7	206.8	158.6	125.5	108.2
97.5°	82.9	104.3	150.0	245.7	397.9	528.3	554.2	482.6	394.9	309.4	252.5
100°	98.7	120.8	162.6	258.9	429.4	623.6	737.3	720.7	622.9	514.7	419.2
102.5°	113.2	135.3	174.0	259.5	417.5	626.8	805.5	876.8	854.6	775.5	674.3
105°	134.2	156.3	193.4	263.7	393.9	584.9	795.0	959.2	1048.3	1058.6	1032.6
107.5°	155.0	177.3	213.3	274.6	382.2	540.1	725.6	899.8	1034.1	1116.2	1154.5
110°	169.0	191.9	226.5	283.4	379.7	518.7	682.1	848.6	990.0	1091.0	1155.7



TEST NUMBER: P331305-840

CATALOG NUMBER: S122DIP-S485D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	182.2	205.7	239.2	292.9	380.3	504.7	651.8	801.9	937.5	1045.5	1119.7
115°	203.7	225.0	258.9	307.1	383.6	489.5	614.2	744.4	866.0	969.4	1050.7
117.5°	223.6	245.7	277.1	322.2	389.3	482.0	590.5	701.1	807.9	901.7	978.0
120°	236.8	258.9	289.7	332.3	393.1	477.6	577.8	679.6	777.6	861.2	933.1
122.5°	250.0	272.9	301.7	341.2	397.6	475.0	567.1	662.7	752.3	831.5	896.5
125°	269.2	291.2	319.7	355.3	404.1	470.5	551.8	637.8	719.1	788.6	847.8
127.5°	286.1	308.8	336.5	368.3	411.0	467.8	537.6	613.4	686.9	752.5	807.1
130°	296.8	318.9	346.6	376.6	416.1	466.6	528.2	597.5	665.5	727.8	779.9
132.5°	306.9	329.0	355.4	384.8	421.1	466.0	520.6	582.4	645.3	702.6	751.5
135°	320.5	342.6	367.9	395.5	427.1	464.9	510.0	561.3	613.4	665.5	709.6
137.5°	332.5	353.0	378.0	403.7	432.4	464.8	502.5	544.4	587.9	629.3	667.8
140°	339.4	360.0	383.6	408.1	434.9	464.1	498.2	533.6	571.6	607.8	642.6
142.5°	345.8	365.1	388.1	411.9	436.9	464.1	493.7	524.8	557.0	588.2	617.3
145°	356.0	373.3	394.8	416.8	438.9	462.6	487.9	512.3	538.4	562.9	585.7
147.5°	364.6	380.0	400.1	419.5	439.6	459.8	481.9	502.7	523.2	542.3	559.1
150°	370.2	384.5	402.6	420.7	438.9	457.9	476.8	495.7	513.1	529.7	543.9
152.5°	375.9	388.9	405.2	421.4	437.7	454.7	472.4	488.8	504.9	519.0	531.3
155°	383.6	395.5	408.9	422.3	435.8	449.2	464.1	479.2	491.8	503.6	512.3
157.5°	390.3	400.2	411.6	422.3	432.1	443.5	456.5	468.0	478.6	488.5	495.2
160°	394.8	403.3	412.8	422.3	430.2	439.7	450.8	461.0	469.7	478.4	483.9
162.5°	398.5	405.3	413.5	421.7	428.4	436.6	445.7	454.0	461.5	468.9	473.2
165°	402.6	407.4	414.4	420.0	424.7	430.2	437.4	443.6	449.2	454.7	457.9
167.5°	406.1	409.1	414.2	418.9	421.1	424.7	429.1	433.7	438.0	441.7	444.6
170°	407.4	409.7	413.6	417.6	419.2	421.5	424.7	428.7	431.0	434.1	435.8
172.5°	408.6	410.3	413.0	415.7	416.7	417.8	420.3	422.9	424.7	427.3	428.2
175°	409.7	410.5	412.0	413.6	412.8	413.6	414.4	416.8	417.6	418.4	419.2
177.5°	410.5	410.5	411.1	412.4	411.1	410.5	411.1	412.4	412.4	413.0	413.0
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331305-840

CATALOG NUMBER: S122DIP-S485D725U840-4F0-1E-UDD-A4

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°	8.2	7.9	7.9	7.6	7.9	7.9	8.2	8.2	8.1	8.4	8.7
90°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	25.2	23.7	25.2
92.5°	46.9	44.3	45.0	43.7	45.0	44.3	46.9	47.6	52.4	59.1	68.9
95°	97.9	91.6	89.2	90.0	89.2	91.6	97.9	108.2	125.5	158.6	206.8
97.5°	214.7	195.3	183.8	177.1	183.8	195.3	214.7	252.5	309.4	394.9	482.6
100°	353.7	319.7	296.8	282.6	296.8	319.7	353.7	419.2	514.7	622.9	720.7
102.5°	603.1	545.1	516.5	497.4	516.5	545.1	603.1	674.3	775.5	854.6	876.8
105°	983.6	934.6	900.7	889.7	900.7	934.6	983.6	1032.6	1058.6	1048.3	959.2
107.5°	1160.6	1157.9	1151.1	1136.4	1151.1	1157.9	1160.6	1154.5	1116.2	1034.1	899.8
110°	1189.6	1204.7	1211.7	1210.9	1211.7	1204.7	1189.6	1155.7	1091.0	990.0	848.6



TEST NUMBER: P331305-840

CATALOG NUMBER: S122DIP-S485D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1166.9	1192.0	1205.5	1209.7	1205.5	1192.0	1166.9	1119.7	1045.5	937.5	801.9
115°	1106.7	1143.1	1163.6	1170.7	1163.6	1143.1	1106.7	1050.7	969.4	866.0	744.4
117.5°	1035.1	1073.5	1095.1	1101.1	1095.1	1073.5	1035.1	978.0	901.7	807.9	701.1
120°	988.4	1025.4	1048.3	1056.2	1048.3	1025.4	988.4	933.1	861.2	777.6	679.6
122.5°	946.0	982.5	1002.9	1009.5	1002.9	982.5	946.0	896.5	831.5	752.3	662.7
125°	893.6	923.6	943.3	949.7	943.3	923.6	893.6	847.8	788.6	719.1	637.8
127.5°	847.1	875.1	892.2	897.3	892.2	875.1	847.1	807.1	752.5	686.9	613.4
130°	818.6	845.5	861.2	867.6	861.2	845.5	818.6	779.9	727.8	665.5	597.5
132.5°	789.6	816.4	830.9	836.6	830.9	816.4	789.6	751.5	702.6	645.3	582.4
135°	743.7	769.7	783.9	787.1	783.9	769.7	743.7	709.6	665.5	613.4	561.3
137.5°	698.8	721.2	733.7	738.4	733.7	721.2	698.8	667.8	629.3	587.9	544.4
140°	667.8	688.3	700.2	705.0	700.2	688.3	667.8	642.6	607.8	571.6	533.6
142.5°	641.4	659.9	670.6	671.5	670.6	659.9	641.4	617.3	588.2	557.0	524.8
145°	604.7	618.1	626.0	628.3	626.0	618.1	604.7	585.7	562.9	538.4	512.3
147.5°	574.7	585.4	590.8	592.2	590.8	585.4	574.7	559.1	542.3	523.2	502.7
150°	555.7	565.2	570.0	570.8	570.0	565.2	555.7	543.9	529.7	513.1	495.7
152.5°	540.6	548.8	552.3	552.4	552.3	548.8	540.6	531.3	519.0	504.9	488.8
155°	521.0	526.5	529.7	528.2	529.7	526.5	521.0	512.3	503.6	491.8	479.2
157.5°	501.4	506.0	507.5	507.5	507.5	506.0	501.4	495.2	488.5	478.6	468.0
160°	489.5	493.4	494.1	494.1	494.1	493.4	489.5	483.9	478.4	469.7	461.0
162.5°	478.7	481.4	482.2	481.5	482.2	481.4	478.7	473.2	468.9	461.5	454.0
165°	461.0	464.1	464.1	463.4	464.1	464.1	461.0	457.9	454.7	449.2	443.6
167.5°	446.1	447.8	447.6	446.7	447.6	447.8	446.1	444.6	441.7	438.0	433.7
170°	436.6	438.9	438.1	436.6	438.1	438.9	436.6	435.8	434.1	431.0	428.7
172.5°	429.0	430.1	429.3	428.4	429.3	430.1	429.0	428.2	427.3	424.7	422.9
175°	419.2	420.0	419.2	417.6	419.2	420.0	419.2	419.2	418.4	417.6	416.8
177.5°	413.0	413.0	412.4	411.1	412.4	413.0	413.0	413.0	413.0	412.4	412.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331305-840

CATALOG NUMBER: S122DIP-S485D725U840-4F0-1E-UDD-A4

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	9.3	9.4	8.8	7.7	7.2	7.1	7.0	7.3	7.0	6.8
90°	26.1	26.9	26.1	21.3	15.8	11.8	9.5	7.9	6.4	3.1	0.8
92.5°	86.6	102.6	101.2	78.8	53.7	35.9	28.4	23.0	19.6	13.9	9.6
95°	270.7	309.4	274.0	182.4	113.7	77.4	58.4	45.7	38.7	30.8	27.7
97.5°	554.2	528.3	397.9	245.7	150.0	104.3	82.9	68.4	57.7	49.3	45.0
100°	737.3	623.6	429.4	258.9	162.6	120.8	98.7	82.9	70.3	63.1	60.8
102.5°	805.5	626.8	417.5	259.5	174.0	135.3	113.2	96.7	84.1	77.1	75.3
105°	795.0	584.9	393.9	263.7	193.4	156.3	134.2	116.8	105.0	99.5	96.3
107.5°	725.6	540.1	382.2	274.6	213.3	177.3	155.0	137.8	126.9	121.6	119.1
110°	682.1	518.7	379.7	283.4	226.5	191.9	169.0	152.4	142.1	137.3	134.2



TEST NUMBER: P331305-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	651.8	504.7	380.3	292.9	239.2	205.7	182.2	166.2	156.6	151.3	148.0
115°	614.2	489.5	383.6	307.1	258.9	225.0	203.7	187.8	178.4	173.7	169.8
117.5°	590.5	482.0	389.3	322.2	277.1	245.7	223.6	208.4	200.1	195.3	192.2
120°	577.8	477.6	393.1	332.3	289.7	258.9	236.8	221.1	213.9	209.2	206.0
122.5°	567.1	475.0	397.6	341.2	301.7	272.9	250.0	234.3	226.5	221.9	219.3
125°	551.8	470.5	404.1	355.3	319.7	291.2	269.2	253.4	243.9	239.2	236.8
127.5°	537.6	467.8	411.0	368.3	336.5	308.8	286.1	270.9	260.5	253.9	250.7
130°	528.2	466.6	416.1	376.6	346.6	318.9	296.8	281.0	269.9	262.1	258.9
132.5°	520.6	466.0	421.1	384.8	355.4	329.0	306.9	290.5	278.8	270.3	266.5
135°	510.0	464.9	427.1	395.5	367.9	342.6	320.5	302.4	290.5	281.0	277.9
137.5°	502.5	464.8	432.4	403.7	378.0	353.0	332.5	314.5	301.8	292.4	288.6
140°	498.2	464.1	434.9	408.1	383.6	360.0	339.4	322.0	309.4	299.9	296.8
142.5°	493.7	464.1	436.9	411.9	388.1	365.1	345.8	329.0	316.4	307.6	305.0
145°	487.9	462.6	438.9	416.8	394.8	373.3	356.0	340.2	328.4	320.5	317.3
147.5°	481.9	459.8	439.6	419.5	400.1	380.0	364.6	351.4	340.5	333.0	330.6
150°	476.8	457.9	438.9	420.7	402.6	384.5	370.2	358.4	348.1	341.8	339.4
152.5°	472.4	454.7	437.7	421.4	405.2	388.9	375.9	364.7	355.7	349.4	348.3
155°	464.1	449.2	435.8	422.3	408.9	395.5	383.6	375.0	366.3	361.5	360.7
157.5°	456.5	443.5	432.1	422.3	411.6	400.2	390.3	383.3	375.8	371.9	371.2
160°	450.8	439.7	430.2	422.3	412.8	403.3	394.8	388.4	382.0	378.9	378.1
162.5°	445.7	436.6	428.4	421.7	413.5	405.3	398.5	392.8	387.8	384.6	385.1
165°	437.4	430.2	424.7	420.0	414.4	407.4	402.6	398.7	393.9	392.3	393.1
167.5°	429.1	424.7	421.1	418.9	414.2	409.1	406.1	403.2	400.2	398.8	399.8
170°	424.7	421.5	419.2	417.6	413.6	409.7	407.4	405.8	403.3	402.6	404.1
172.5°	420.3	417.8	416.7	415.7	413.0	410.3	408.6	407.7	405.3	405.8	406.7
175°	414.4	413.6	412.8	413.6	412.0	410.5	409.7	409.7	408.1	408.9	409.7
177.5°	411.1	410.5	411.1	412.4	411.1	410.5	410.5	410.5	409.2	409.9	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



TEST NUMBER: P331305-840

CATALOG NUMBER: S122DIP-S485D725U840-4F0-1E-UDD-A4

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°	8.2	10.0	10.3	11.5	11.4	12.2	13.3	13.9	13.8	13.3	12.9
90°	3.1	6.4	7.9	9.5	11.8	15.8	21.3	26.1	26.9	26.1	25.2
92.5°	13.9	19.6	23.0	28.4	35.9	53.7	78.8	101.2	102.6	86.6	68.9
95°	30.8	38.7	45.7	58.4	77.4	113.7	182.4	274.0	309.4	270.7	206.8
97.5°	49.3	57.7	68.4	82.9	104.3	150.0	245.7	397.9	528.3	554.2	482.6
100°	63.1	70.3	82.9	98.7	120.8	162.6	258.9	429.4	623.6	737.3	720.7
102.5°	77.1	84.1	96.7	113.2	135.3	174.0	259.5	417.5	626.8	805.5	876.8
105°	99.5	105.0	116.8	134.2	156.3	193.4	263.7	393.9	584.9	795.0	959.2
107.5°	121.6	126.9	137.8	155.0	177.3	213.3	274.6	382.2	540.1	725.6	899.8
110°	137.3	142.1	152.4	169.0	191.9	226.5	283.4	379.7	518.7	682.1	848.6



TEST NUMBER: P331305-840

CATALOG NUMBER: S122DIP-S485D725U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	151.3	156.6	166.2	182.2	205.7	239.2	292.9	380.3	504.7	651.8	801.9
115°	173.7	178.4	187.8	203.7	225.0	258.9	307.1	383.6	489.5	614.2	744.4
117.5°	195.3	200.1	208.4	223.6	245.7	277.1	322.2	389.3	482.0	590.5	701.1
120°	209.2	213.9	221.1	236.8	258.9	289.7	332.3	393.1	477.6	577.8	679.6
122.5°	221.9	226.5	234.3	250.0	272.9	301.7	341.2	397.6	475.0	567.1	662.7
125°	239.2	243.9	253.4	269.2	291.2	319.7	355.3	404.1	470.5	551.8	637.8
127.5°	253.9	260.5	270.9	286.1	308.8	336.5	368.3	411.0	467.8	537.6	613.4
130°	262.1	269.9	281.0	296.8	318.9	346.6	376.6	416.1	466.6	528.2	597.5
132.5°	270.3	278.8	290.5	306.9	329.0	355.4	384.8	421.1	466.0	520.6	582.4
135°	281.0	290.5	302.4	320.5	342.6	367.9	395.5	427.1	464.9	510.0	561.3
137.5°	292.4	301.8	314.5	332.5	353.0	378.0	403.7	432.4	464.8	502.5	544.4
140°	299.9	309.4	322.0	339.4	360.0	383.6	408.1	434.9	464.1	498.2	533.6
142.5°	307.6	316.4	329.0	345.8	365.1	388.1	411.9	436.9	464.1	493.7	524.8
145°	320.5	328.4	340.2	356.0	373.3	394.8	416.8	438.9	462.6	487.9	512.3
147.5°	333.0	340.5	351.4	364.6	380.0	400.1	419.5	439.6	459.8	481.9	502.7
150°	341.8	348.1	358.4	370.2	384.5	402.6	420.7	438.9	457.9	476.8	495.7
152.5°	349.4	355.7	364.7	375.9	388.9	405.2	421.4	437.7	454.7	472.4	488.8
155°	361.5	366.3	375.0	383.6	395.5	408.9	422.3	435.8	449.2	464.1	479.2
157.5°	371.9	375.8	383.3	390.3	400.2	411.6	422.3	432.1	443.5	456.5	468.0
160°	378.9	382.0	388.4	394.8	403.3	412.8	422.3	430.2	439.7	450.8	461.0
162.5°	384.6	387.8	392.8	398.5	405.3	413.5	421.7	428.4	436.6	445.7	454.0
165°	392.3	393.9	398.7	402.6	407.4	414.4	420.0	424.7	430.2	437.4	443.6
167.5°	398.8	400.2	403.2	406.1	409.1	414.2	418.9	421.1	424.7	429.1	433.7
170°	402.6	403.3	405.8	407.4	409.7	413.6	417.6	419.2	421.5	424.7	428.7
172.5°	405.8	405.3	407.7	408.6	410.3	413.0	415.7	416.7	417.8	420.3	422.9
175°	408.9	408.1	409.7	409.7	410.5	412.0	413.6	412.8	413.6	414.4	416.8
177.5°	409.9	409.2	410.5	410.5	410.5	411.1	412.4	411.1	410.5	411.1	412.4
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5



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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°	12.9	13.2	13.0	13.0	13.3	13.0	13.0
90°	23.7	25.2	26.1	26.1	26.1	26.1	26.1
92.5°	59.1	52.4	47.6	46.9	44.3	45.0	43.7
95°	158.6	125.5	108.2	97.9	91.6	89.2	90.0
97.5°	394.9	309.4	252.5	214.7	195.3	183.8	177.1
100°	622.9	514.7	419.2	353.7	319.7	296.8	282.6
102.5°	854.6	775.5	674.3	603.1	545.1	516.5	497.4
105°	1048.3	1058.6	1032.6	983.6	934.6	900.7	889.7
107.5°	1034.1	1116.2	1154.5	1160.6	1157.9	1151.1	1136.4
110°	990.0	1091.0	1155.7	1189.6	1204.7	1211.7	1210.9



TEST NUMBER: P331305-840

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	937.5	1045.5	1119.7	1166.9	1192.0	1205.5	1209.7
115°	866.0	969.4	1050.7	1106.7	1143.1	1163.6	1170.7
117.5°	807.9	901.7	978.0	1035.1	1073.5	1095.1	1101.1
120°	777.6	861.2	933.1	988.4	1025.4	1048.3	1056.2
122.5°	752.3	831.5	896.5	946.0	982.5	1002.9	1009.5
125°	719.1	788.6	847.8	893.6	923.6	943.3	949.7
127.5°	686.9	752.5	807.1	847.1	875.1	892.2	897.3
130°	665.5	727.8	779.9	818.6	845.5	861.2	867.6
132.5°	645.3	702.6	751.5	789.6	816.4	830.9	836.6
135°	613.4	665.5	709.6	743.7	769.7	783.9	787.1
137.5°	587.9	629.3	667.8	698.8	721.2	733.7	738.4
140°	571.6	607.8	642.6	667.8	688.3	700.2	705.0
142.5°	557.0	588.2	617.3	641.4	659.9	670.6	671.5
145°	538.4	562.9	585.7	604.7	618.1	626.0	628.3
147.5°	523.2	542.3	559.1	574.7	585.4	590.8	592.2
150°	513.1	529.7	543.9	555.7	565.2	570.0	570.8
152.5°	504.9	519.0	531.3	540.6	548.8	552.3	552.4
155°	491.8	503.6	512.3	521.0	526.5	529.7	528.2
157.5°	478.6	488.5	495.2	501.4	506.0	507.5	507.5
160°	469.7	478.4	483.9	489.5	493.4	494.1	494.1
162.5°	461.5	468.9	473.2	478.7	481.4	482.2	481.5
165°	449.2	454.7	457.9	461.0	464.1	464.1	463.4
167.5°	438.0	441.7	444.6	446.1	447.8	447.6	446.7
170°	431.0	434.1	435.8	436.6	438.9	438.1	436.6
172.5°	424.7	427.3	428.2	429.0	430.1	429.3	428.4
175°	417.6	418.4	419.2	419.2	420.0	419.2	417.6
177.5°	412.4	413.0	413.0	413.0	413.0	412.4	411.1
180°	410.5	410.5	410.5	410.5	410.5	410.5	410.5

(END OF REPORT)