

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: P331296-840

Luminaire Tested: **S122DIP-S485D530U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331296-840
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-S485D530U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4251.7 lumens
Efficiency: N/A
Efficacy: 129.6 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

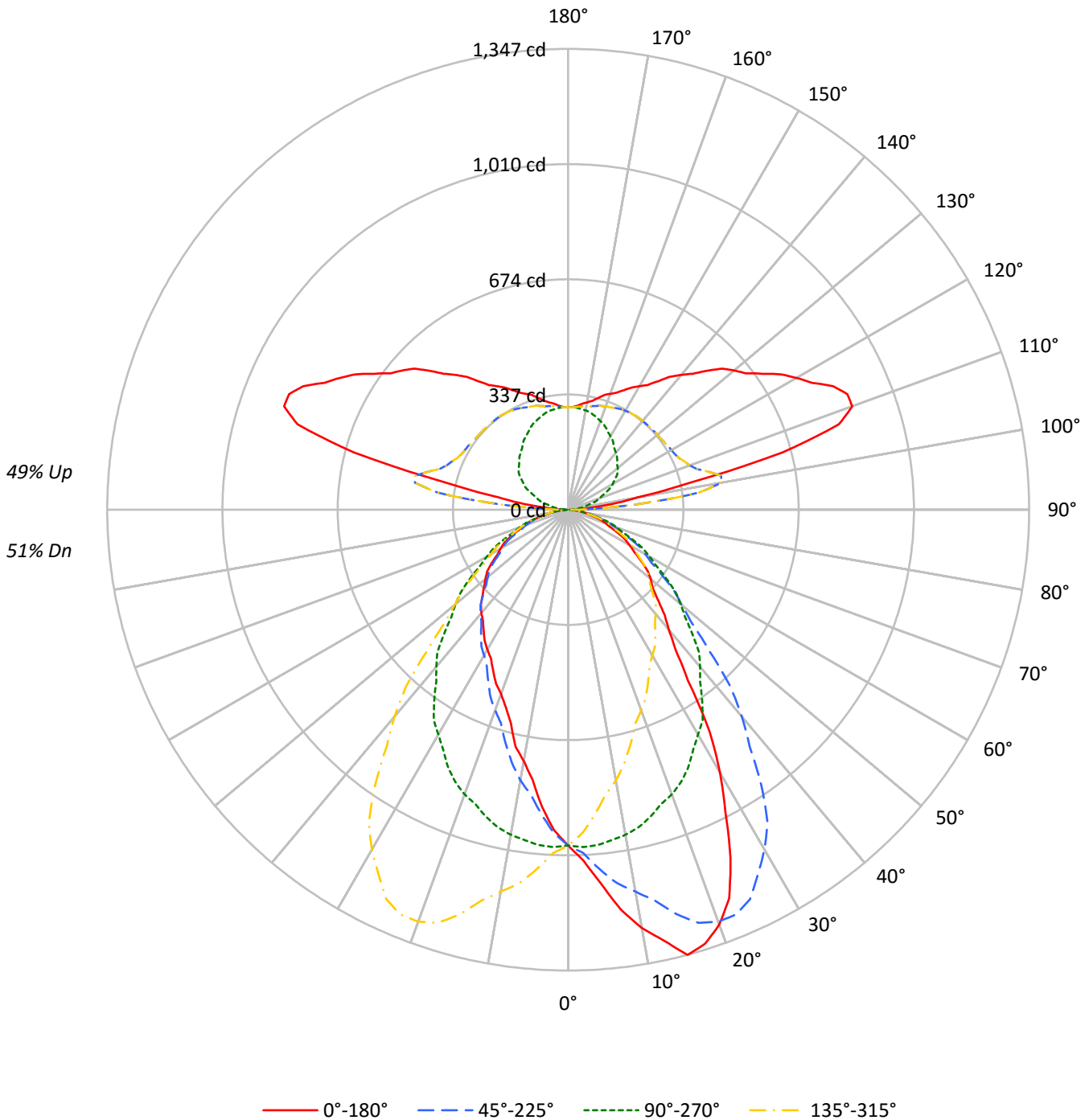
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57	57	57	51
1	98	94	91	87	91	87	84	81	74	72	70		62	61	59		51	50	49	44
2	90	83	77	72	83	77	72	67	66	62	59		55	53	50		46	44	42	38
3	82	73	66	61	76	68	62	57	58	54	50		49	46	43		41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43		44	40	37		37	34	32	28
5	70	58	50	45	64	54	47	42	47	42	37		40	36	33		33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33		36	32	29		31	27	25	22
7	60	48	40	34	55	45	38	33	39	33	29		33	29	26		28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26		30	26	23		26	23	20	18
9	52	40	32	27	48	37	31	26	33	27	23		28	24	21		24	21	18	16
10	48	37	29	25	45	34	28	24	30	25	21		26	22	19		22	19	17	15

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	2.2
10°-20°	271.7	6.4
20°-30°	394.3	9.3
30°-40°	416.1	9.8
40°-50°	368.4	8.7
50°-60°	294.0	6.9
60°-70°	199.8	4.7
70°-80°	102.5	2.4
80°-90°	27.4	0.6
90°-100°	119.7	2.8
100°-110°	406.3	9.6
110°-120°	431.7	10.2
120°-130°	355.4	8.4
130°-140°	285.4	6.7
140°-150°	215.7	5.1
150°-160°	151.6	3.6
160°-170°	89.2	2.1
170°-180°	29.0	0.7
0°-30°	759.5	17.9
0°-40°	1175.6	27.6
0°-60°	1838.0	43.2
0°-90°	2167.7	51.0
90°-120°	957.8	22.5
90°-150°	1814.1	42.7
90°-180°	2084.0	49.0
0°-180°	4251.7	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°	19	1	19	1	19	11
95°	66	20	66	20	66	85
105°	649	70	649	70	649	628
115°	854	124	854	124	854	836
125°	693	173	693	173	693	626
135°	574	203	574	203	574	446
145°	458	232	458	232	458	291
155°	385	263	385	263	385	180
165°	338	287	338	287	338	97
175°	305	299	305	299	305	30
180°	299	299	299	299	299	



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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°	11.6	11.6	11.9	11.6	11.6	11.8	11.6	11.5	11.9	12.3	12.5
90°	19.0	19.0	19.0	19.0	19.0	18.4	17.3	18.4	19.0	19.6	19.0
92.5°	31.9	32.8	32.4	34.2	34.6	38.3	43.1	50.2	63.2	74.8	73.8
95°	65.6	65.0	66.9	71.4	78.9	91.6	115.7	150.9	197.5	225.8	199.9
97.5°	129.3	134.1	142.5	156.6	184.2	225.8	288.1	352.1	404.2	385.4	290.2
100°	206.2	216.5	233.3	258.0	305.8	375.5	454.4	525.8	537.9	454.9	313.3
102.5°	362.8	376.9	397.7	440.0	491.9	565.8	623.5	639.6	587.6	457.3	304.6
105°	649.0	657.1	681.9	717.6	753.3	772.3	764.8	699.7	580.0	426.8	287.4
107.5°	829.1	839.8	844.8	846.7	842.2	814.4	754.5	656.4	529.4	394.0	278.8
110°	883.4	884.0	878.9	867.9	843.1	795.9	722.2	619.1	497.6	378.4	277.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	882.5	879.4	869.6	851.3	816.9	762.8	684.0	585.0	475.4	368.2	277.5
115°	854.0	848.9	833.9	807.4	766.6	707.2	631.8	543.1	448.1	357.1	279.9
117.5°	803.2	798.9	783.2	755.2	713.5	657.8	589.4	511.5	430.8	351.6	284.1
120°	770.5	764.8	748.1	721.0	680.8	628.3	567.2	495.8	421.6	348.4	286.8
122.5°	736.5	731.6	716.8	690.1	654.0	606.6	548.9	483.4	413.7	346.6	290.0
125°	692.9	688.2	673.8	652.0	618.5	575.3	524.6	465.3	402.5	343.3	294.9
127.5°	654.6	650.9	638.4	617.9	588.9	549.0	501.2	447.5	392.2	341.3	299.8
130°	632.9	628.3	616.8	597.2	569.0	531.0	485.5	436.0	385.3	340.3	303.5
132.5°	610.4	606.2	595.6	576.0	548.3	512.6	470.8	425.0	379.7	339.9	307.2
135°	574.2	571.9	561.5	542.5	517.8	485.5	447.5	409.5	372.0	339.2	311.5
137.5°	538.7	535.2	526.1	509.8	487.3	459.1	429.0	397.2	366.6	339.1	315.5
140°	514.3	510.8	502.2	487.3	468.8	443.4	417.0	389.3	363.5	338.6	317.3
142.5°	489.9	489.2	481.5	467.9	450.4	429.2	406.4	382.8	360.2	338.6	318.7
145°	458.4	456.7	450.9	441.1	427.4	410.6	392.7	373.8	355.9	337.5	320.2
147.5°	432.0	431.0	427.1	419.3	407.9	395.7	381.7	366.8	351.5	335.4	320.6
150°	416.4	415.8	412.3	405.5	396.8	386.5	374.4	361.6	347.9	334.1	320.2
152.5°	403.0	402.9	400.4	394.4	387.6	378.6	368.4	356.6	344.7	331.7	319.3
155°	385.3	386.5	384.2	380.1	373.8	367.4	358.8	349.6	338.6	327.7	317.9
157.5°	370.2	370.2	369.2	365.8	361.3	356.4	349.1	341.4	333.0	323.6	315.3
160°	360.5	360.5	359.9	357.1	353.0	349.0	342.6	336.3	328.8	320.8	313.9
162.5°	351.3	351.7	351.2	349.2	345.2	342.1	336.7	331.2	325.2	318.5	312.5
165°	338.1	338.6	338.6	336.3	334.1	331.7	327.7	323.7	319.0	313.9	309.8
167.5°	325.9	326.6	326.7	325.4	324.4	322.2	319.5	316.4	313.1	309.8	307.2
170°	318.5	319.6	320.2	318.5	317.9	316.8	314.5	312.8	309.8	307.5	305.8
172.5°	312.5	313.2	313.8	313.0	312.4	311.6	309.8	308.6	306.6	304.8	304.0
175°	304.7	305.8	306.4	305.8	305.8	305.3	304.7	304.1	302.4	301.7	301.2
177.5°	299.9	300.8	301.3	301.3	301.3	301.3	300.8	300.8	299.9	299.4	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



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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°	12.1	11.3	10.8	11.0	9.9	9.7	8.0	6.8	6.8	7.0	6.6
90°	15.6	11.5	8.7	6.9	5.8	4.6	2.3	0.6	2.3	4.6	5.8
92.5°	57.5	39.2	26.2	20.7	16.9	14.2	10.1	7.1	10.1	14.2	16.9
95°	133.0	82.9	56.5	42.6	33.4	28.2	22.4	20.2	22.4	28.2	33.4
97.5°	179.3	109.5	76.1	60.5	49.9	42.0	36.0	32.8	36.0	42.0	49.9
100°	188.9	118.7	88.2	72.0	60.5	51.3	46.0	44.3	46.0	51.3	60.5
102.5°	189.3	126.9	98.7	82.6	70.6	61.4	56.2	54.9	56.2	61.4	70.6
105°	192.4	141.1	114.0	97.9	85.2	76.5	72.6	70.3	72.6	76.5	85.2
107.5°	200.3	155.6	129.4	113.1	100.6	92.6	88.7	86.8	88.7	92.6	100.6
110°	206.7	165.3	140.0	123.2	111.2	103.7	100.2	97.9	100.2	103.7	111.2



TEST NUMBER: P331296-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	213.7	174.5	150.1	132.9	121.3	114.2	110.4	108.1	110.4	114.2	121.3
115°	224.0	188.9	164.1	148.6	137.0	130.2	126.7	123.8	126.7	130.2	137.0
117.5°	235.1	202.2	179.3	163.1	152.1	145.9	142.5	140.2	142.5	145.9	152.1
120°	242.5	211.4	188.9	172.8	161.3	156.0	152.6	150.3	152.6	156.0	161.3
122.5°	248.9	220.2	199.0	182.5	171.0	165.3	161.9	160.0	161.9	165.3	171.0
125°	259.1	233.3	212.5	196.4	184.9	177.9	174.5	172.8	174.5	177.9	184.9
127.5°	268.7	245.5	225.3	208.7	197.6	190.1	185.2	182.9	185.2	190.1	197.6
130°	274.7	252.9	232.7	216.5	205.0	196.9	191.2	188.9	191.2	196.9	205.0
132.5°	280.7	259.2	240.0	223.9	212.0	203.4	197.2	194.4	197.2	203.4	212.0
135°	288.5	268.4	249.9	233.8	220.6	212.0	205.0	202.7	205.0	212.0	220.6
137.5°	294.5	275.8	257.5	242.6	229.4	220.3	213.3	210.6	213.3	220.3	229.4
140°	297.7	279.9	262.7	247.6	235.0	225.8	218.8	216.5	218.8	225.8	235.0
142.5°	300.5	283.2	266.3	252.3	240.0	230.9	224.4	222.6	224.4	230.9	240.0
145°	304.1	287.9	272.4	259.7	248.2	239.5	233.8	231.6	233.8	239.5	248.2
147.5°	306.1	291.9	277.2	266.0	256.4	248.4	242.9	241.2	242.9	248.4	256.4
150°	307.0	293.7	280.4	270.1	261.5	254.0	249.3	247.6	249.3	254.0	261.5
152.5°	307.4	295.6	283.7	274.3	266.1	259.5	254.9	254.1	254.9	259.5	266.1
155°	308.1	298.3	288.5	279.9	273.6	267.2	263.8	263.2	263.8	267.2	273.6
157.5°	308.1	300.2	292.0	284.8	279.6	274.2	271.4	270.7	271.4	274.2	279.6
160°	308.1	301.2	294.3	287.9	283.4	278.7	276.4	275.9	276.4	278.7	283.4
162.5°	307.6	301.6	295.7	290.7	286.6	282.9	280.5	280.9	280.5	282.9	286.6
165°	306.4	302.4	297.2	293.7	290.8	287.4	286.2	286.8	286.2	287.4	290.8
167.5°	305.6	302.3	298.4	296.3	294.2	292.0	290.9	291.6	290.9	292.0	294.2
170°	304.7	301.7	298.9	297.2	296.0	294.3	293.7	294.9	293.7	294.3	296.0
172.5°	303.3	301.3	299.3	298.1	297.4	295.7	296.0	296.7	296.0	295.7	297.4
175°	301.7	300.6	299.4	298.9	298.9	297.7	298.3	298.9	298.3	297.7	298.9
177.5°	300.8	299.9	299.4	299.4	299.4	298.5	299.0	299.9	299.0	298.5	299.4
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331296-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-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°	6.5	6.6	6.9	7.7	8.0	7.9	7.4	7.3	7.1	6.7	6.9
90°	6.9	8.7	11.5	15.6	19.0	19.6	19.0	18.4	17.3	18.4	19.0
92.5°	20.7	26.2	39.2	57.5	73.8	74.8	63.2	50.2	43.1	38.3	34.6
95°	42.6	56.5	82.9	133.0	199.9	225.8	197.5	150.9	115.7	91.6	78.9
97.5°	60.5	76.1	109.5	179.3	290.2	385.4	404.2	352.1	288.1	225.8	184.2
100°	72.0	88.2	118.7	188.9	313.3	454.9	537.9	525.8	454.4	375.5	305.8
102.5°	82.6	98.7	126.9	189.3	304.6	457.3	587.6	639.6	623.5	565.8	491.9
105°	97.9	114.0	141.1	192.4	287.4	426.8	580.0	699.7	764.8	772.3	753.3
107.5°	113.1	129.4	155.6	200.3	278.8	394.0	529.4	656.4	754.5	814.4	842.2
110°	123.2	140.0	165.3	206.7	277.0	378.4	497.6	619.1	722.2	795.9	843.1



TEST NUMBER: P331296-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	132.9	150.1	174.5	213.7	277.5	368.2	475.4	585.0	684.0	762.8	816.9
115°	148.6	164.1	188.9	224.0	279.9	357.1	448.1	543.1	631.8	707.2	766.6
117.5°	163.1	179.3	202.2	235.1	284.1	351.6	430.8	511.5	589.4	657.8	713.5
120°	172.8	188.9	211.4	242.5	286.8	348.4	421.6	495.8	567.2	628.3	680.8
122.5°	182.5	199.0	220.2	248.9	290.0	346.6	413.7	483.4	548.9	606.6	654.0
125°	196.4	212.5	233.3	259.1	294.9	343.3	402.5	465.3	524.6	575.3	618.5
127.5°	208.7	225.3	245.5	268.7	299.8	341.3	392.2	447.5	501.2	549.0	588.9
130°	216.5	232.7	252.9	274.7	303.5	340.3	385.3	436.0	485.5	531.0	569.0
132.5°	223.9	240.0	259.2	280.7	307.2	339.9	379.7	425.0	470.8	512.6	548.3
135°	233.8	249.9	268.4	288.5	311.5	339.2	372.0	409.5	447.5	485.5	517.8
137.5°	242.6	257.5	275.8	294.5	315.5	339.1	366.6	397.2	429.0	459.1	487.3
140°	247.6	262.7	279.9	297.7	317.3	338.6	363.5	389.3	417.0	443.4	468.8
142.5°	252.3	266.3	283.2	300.5	318.7	338.6	360.2	382.8	406.4	429.2	450.4
145°	259.7	272.4	287.9	304.1	320.2	337.5	355.9	373.8	392.7	410.6	427.4
147.5°	266.0	277.2	291.9	306.1	320.6	335.4	351.5	366.8	381.7	395.7	407.9
150°	270.1	280.4	293.7	307.0	320.2	334.1	347.9	361.6	374.4	386.5	396.8
152.5°	274.3	283.7	295.6	307.4	319.3	331.7	344.7	356.6	368.4	378.6	387.6
155°	279.9	288.5	298.3	308.1	317.9	327.7	338.6	349.6	358.8	367.4	373.8
157.5°	284.8	292.0	300.2	308.1	315.3	323.6	333.0	341.4	349.1	356.4	361.3
160°	287.9	294.3	301.2	308.1	313.9	320.8	328.8	336.3	342.6	349.0	353.0
162.5°	290.7	295.7	301.6	307.6	312.5	318.5	325.2	331.2	336.7	342.1	345.2
165°	293.7	297.2	302.4	306.4	309.8	313.9	319.0	323.7	327.7	331.7	334.1
167.5°	296.3	298.4	302.3	305.6	307.2	309.8	313.1	316.4	319.5	322.2	324.4
170°	297.2	298.9	301.7	304.7	305.8	307.5	309.8	312.8	314.5	316.8	317.9
172.5°	298.1	299.3	301.3	303.3	304.0	304.8	306.6	308.6	309.8	311.6	312.4
175°	298.9	299.4	300.6	301.7	301.2	301.7	302.4	304.1	304.7	305.3	305.8
177.5°	299.4	299.4	299.9	300.8	299.9	299.4	299.9	300.8	300.8	301.3	301.3
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331296-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-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°	6.9	6.6	6.6	6.3	6.6	6.6	6.9	6.9	6.7	7.1	7.3
90°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	18.4	17.3	18.4
92.5°	34.2	32.4	32.8	31.9	32.8	32.4	34.2	34.6	38.3	43.1	50.2
95°	71.4	66.9	65.0	65.6	65.0	66.9	71.4	78.9	91.6	115.7	150.9
97.5°	156.6	142.5	134.1	129.3	134.1	142.5	156.6	184.2	225.8	288.1	352.1
100°	258.0	233.3	216.5	206.2	216.5	233.3	258.0	305.8	375.5	454.4	525.8
102.5°	440.0	397.7	376.9	362.8	376.9	397.7	440.0	491.9	565.8	623.5	639.6
105°	717.6	681.9	657.1	649.0	657.1	681.9	717.6	753.3	772.3	764.8	699.7
107.5°	846.7	844.8	839.8	829.1	839.8	844.8	846.7	842.2	814.4	754.5	656.4
110°	867.9	878.9	884.0	883.4	884.0	878.9	867.9	843.1	795.9	722.2	619.1



TEST NUMBER: P331296-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	851.3	869.6	879.4	882.5	879.4	869.6	851.3	816.9	762.8	684.0	585.0
115°	807.4	833.9	848.9	854.0	848.9	833.9	807.4	766.6	707.2	631.8	543.1
117.5°	755.2	783.2	798.9	803.2	798.9	783.2	755.2	713.5	657.8	589.4	511.5
120°	721.0	748.1	764.8	770.5	764.8	748.1	721.0	680.8	628.3	567.2	495.8
122.5°	690.1	716.8	731.6	736.5	731.6	716.8	690.1	654.0	606.6	548.9	483.4
125°	652.0	673.8	688.2	692.9	688.2	673.8	652.0	618.5	575.3	524.6	465.3
127.5°	617.9	638.4	650.9	654.6	650.9	638.4	617.9	588.9	549.0	501.2	447.5
130°	597.2	616.8	628.3	632.9	628.3	616.8	597.2	569.0	531.0	485.5	436.0
132.5°	576.0	595.6	606.2	610.4	606.2	595.6	576.0	548.3	512.6	470.8	425.0
135°	542.5	561.5	571.9	574.2	571.9	561.5	542.5	517.8	485.5	447.5	409.5
137.5°	509.8	526.1	535.2	538.7	535.2	526.1	509.8	487.3	459.1	429.0	397.2
140°	487.3	502.2	510.8	514.3	510.8	502.2	487.3	468.8	443.4	417.0	389.3
142.5°	467.9	481.5	489.2	489.9	489.2	481.5	467.9	450.4	429.2	406.4	382.8
145°	441.1	450.9	456.7	458.4	456.7	450.9	441.1	427.4	410.6	392.7	373.8
147.5°	419.3	427.1	431.0	432.0	431.0	427.1	419.3	407.9	395.7	381.7	366.8
150°	405.5	412.3	415.8	416.4	415.8	412.3	405.5	396.8	386.5	374.4	361.6
152.5°	394.4	400.4	402.9	403.0	402.9	400.4	394.4	387.6	378.6	368.4	356.6
155°	380.1	384.2	386.5	385.3	386.5	384.2	380.1	373.8	367.4	358.8	349.6
157.5°	365.8	369.2	370.2	370.2	370.2	369.2	365.8	361.3	356.4	349.1	341.4
160°	357.1	359.9	360.5	360.5	360.5	359.9	357.1	353.0	349.0	342.6	336.3
162.5°	349.2	351.2	351.7	351.3	351.7	351.2	349.2	345.2	342.1	336.7	331.2
165°	336.3	338.6	338.6	338.1	338.6	338.6	336.3	334.1	331.7	327.7	323.7
167.5°	325.4	326.7	326.6	325.9	326.6	326.7	325.4	324.4	322.2	319.5	316.4
170°	318.5	320.2	319.6	318.5	319.6	320.2	318.5	317.9	316.8	314.5	312.8
172.5°	313.0	313.8	313.2	312.5	313.2	313.8	313.0	312.4	311.6	309.8	308.6
175°	305.8	306.4	305.8	304.7	305.8	306.4	305.8	305.8	305.3	304.7	304.1
177.5°	301.3	301.3	300.8	299.9	300.8	301.3	301.3	301.3	301.3	300.8	300.8
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331296-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-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°	7.4	7.9	8.0	7.7	6.9	6.6	6.5	6.6	7.0	6.8	6.8
90°	19.0	19.6	19.0	15.6	11.5	8.7	6.9	5.8	4.6	2.3	0.6
92.5°	63.2	74.8	73.8	57.5	39.2	26.2	20.7	16.9	14.2	10.1	7.1
95°	197.5	225.8	199.9	133.0	82.9	56.5	42.6	33.4	28.2	22.4	20.2
97.5°	404.2	385.4	290.2	179.3	109.5	76.1	60.5	49.9	42.0	36.0	32.8
100°	537.9	454.9	313.3	188.9	118.7	88.2	72.0	60.5	51.3	46.0	44.3
102.5°	587.6	457.3	304.6	189.3	126.9	98.7	82.6	70.6	61.4	56.2	54.9
105°	580.0	426.8	287.4	192.4	141.1	114.0	97.9	85.2	76.5	72.6	70.3
107.5°	529.4	394.0	278.8	200.3	155.6	129.4	113.1	100.6	92.6	88.7	86.8
110°	497.6	378.4	277.0	206.7	165.3	140.0	123.2	111.2	103.7	100.2	97.9



TEST NUMBER: P331296-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	475.4	368.2	277.5	213.7	174.5	150.1	132.9	121.3	114.2	110.4	108.1
115°	448.1	357.1	279.9	224.0	188.9	164.1	148.6	137.0	130.2	126.7	123.8
117.5°	430.8	351.6	284.1	235.1	202.2	179.3	163.1	152.1	145.9	142.5	140.2
120°	421.6	348.4	286.8	242.5	211.4	188.9	172.8	161.3	156.0	152.6	150.3
122.5°	413.7	346.6	290.0	248.9	220.2	199.0	182.5	171.0	165.3	161.9	160.0
125°	402.5	343.3	294.9	259.1	233.3	212.5	196.4	184.9	177.9	174.5	172.8
127.5°	392.2	341.3	299.8	268.7	245.5	225.3	208.7	197.6	190.1	185.2	182.9
130°	385.3	340.3	303.5	274.7	252.9	232.7	216.5	205.0	196.9	191.2	188.9
132.5°	379.7	339.9	307.2	280.7	259.2	240.0	223.9	212.0	203.4	197.2	194.4
135°	372.0	339.2	311.5	288.5	268.4	249.9	233.8	220.6	212.0	205.0	202.7
137.5°	366.6	339.1	315.5	294.5	275.8	257.5	242.6	229.4	220.3	213.3	210.6
140°	363.5	338.6	317.3	297.7	279.9	262.7	247.6	235.0	225.8	218.8	216.5
142.5°	360.2	338.6	318.7	300.5	283.2	266.3	252.3	240.0	230.9	224.4	222.6
145°	355.9	337.5	320.2	304.1	287.9	272.4	259.7	248.2	239.5	233.8	231.6
147.5°	351.5	335.4	320.6	306.1	291.9	277.2	266.0	256.4	248.4	242.9	241.2
150°	347.9	334.1	320.2	307.0	293.7	280.4	270.1	261.5	254.0	249.3	247.6
152.5°	344.7	331.7	319.3	307.4	295.6	283.7	274.3	266.1	259.5	254.9	254.1
155°	338.6	327.7	317.9	308.1	298.3	288.5	279.9	273.6	267.2	263.8	263.2
157.5°	333.0	323.6	315.3	308.1	300.2	292.0	284.8	279.6	274.2	271.4	270.7
160°	328.8	320.8	313.9	308.1	301.2	294.3	287.9	283.4	278.7	276.4	275.9
162.5°	325.2	318.5	312.5	307.6	301.6	295.7	290.7	286.6	282.9	280.5	280.9
165°	319.0	313.9	309.8	306.4	302.4	297.2	293.7	290.8	287.4	286.2	286.8
167.5°	313.1	309.8	307.2	305.6	302.3	298.4	296.3	294.2	292.0	290.9	291.6
170°	309.8	307.5	305.8	304.7	301.7	298.9	297.2	296.0	294.3	293.7	294.9
172.5°	306.6	304.8	304.0	303.3	301.3	299.3	298.1	297.4	295.7	296.0	296.7
175°	302.4	301.7	301.2	301.7	300.6	299.4	298.9	298.9	297.7	298.3	298.9
177.5°	299.9	299.4	299.9	300.8	299.9	299.4	299.4	299.4	298.5	299.0	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331296-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-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°	8.0	9.7	9.9	11.0	10.8	11.3	12.1	12.5	12.3	11.9	11.5
90°	2.3	4.6	5.8	6.9	8.7	11.5	15.6	19.0	19.6	19.0	18.4
92.5°	10.1	14.2	16.9	20.7	26.2	39.2	57.5	73.8	74.8	63.2	50.2
95°	22.4	28.2	33.4	42.6	56.5	82.9	133.0	199.9	225.8	197.5	150.9
97.5°	36.0	42.0	49.9	60.5	76.1	109.5	179.3	290.2	385.4	404.2	352.1
100°	46.0	51.3	60.5	72.0	88.2	118.7	188.9	313.3	454.9	537.9	525.8
102.5°	56.2	61.4	70.6	82.6	98.7	126.9	189.3	304.6	457.3	587.6	639.6
105°	72.6	76.5	85.2	97.9	114.0	141.1	192.4	287.4	426.8	580.0	699.7
107.5°	88.7	92.6	100.6	113.1	129.4	155.6	200.3	278.8	394.0	529.4	656.4
110°	100.2	103.7	111.2	123.2	140.0	165.3	206.7	277.0	378.4	497.6	619.1



TEST NUMBER: P331296-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	110.4	114.2	121.3	132.9	150.1	174.5	213.7	277.5	368.2	475.4	585.0
115°	126.7	130.2	137.0	148.6	164.1	188.9	224.0	279.9	357.1	448.1	543.1
117.5°	142.5	145.9	152.1	163.1	179.3	202.2	235.1	284.1	351.6	430.8	511.5
120°	152.6	156.0	161.3	172.8	188.9	211.4	242.5	286.8	348.4	421.6	495.8
122.5°	161.9	165.3	171.0	182.5	199.0	220.2	248.9	290.0	346.6	413.7	483.4
125°	174.5	177.9	184.9	196.4	212.5	233.3	259.1	294.9	343.3	402.5	465.3
127.5°	185.2	190.1	197.6	208.7	225.3	245.5	268.7	299.8	341.3	392.2	447.5
130°	191.2	196.9	205.0	216.5	232.7	252.9	274.7	303.5	340.3	385.3	436.0
132.5°	197.2	203.4	212.0	223.9	240.0	259.2	280.7	307.2	339.9	379.7	425.0
135°	205.0	212.0	220.6	233.8	249.9	268.4	288.5	311.5	339.2	372.0	409.5
137.5°	213.3	220.3	229.4	242.6	257.5	275.8	294.5	315.5	339.1	366.6	397.2
140°	218.8	225.8	235.0	247.6	262.7	279.9	297.7	317.3	338.6	363.5	389.3
142.5°	224.4	230.9	240.0	252.3	266.3	283.2	300.5	318.7	338.6	360.2	382.8
145°	233.8	239.5	248.2	259.7	272.4	287.9	304.1	320.2	337.5	355.9	373.8
147.5°	242.9	248.4	256.4	266.0	277.2	291.9	306.1	320.6	335.4	351.5	366.8
150°	249.3	254.0	261.5	270.1	280.4	293.7	307.0	320.2	334.1	347.9	361.6
152.5°	254.9	259.5	266.1	274.3	283.7	295.6	307.4	319.3	331.7	344.7	356.6
155°	263.8	267.2	273.6	279.9	288.5	298.3	308.1	317.9	327.7	338.6	349.6
157.5°	271.4	274.2	279.6	284.8	292.0	300.2	308.1	315.3	323.6	333.0	341.4
160°	276.4	278.7	283.4	287.9	294.3	301.2	308.1	313.9	320.8	328.8	336.3
162.5°	280.5	282.9	286.6	290.7	295.7	301.6	307.6	312.5	318.5	325.2	331.2
165°	286.2	287.4	290.8	293.7	297.2	302.4	306.4	309.8	313.9	319.0	323.7
167.5°	290.9	292.0	294.2	296.3	298.4	302.3	305.6	307.2	309.8	313.1	316.4
170°	293.7	294.3	296.0	297.2	298.9	301.7	304.7	305.8	307.5	309.8	312.8
172.5°	296.0	295.7	297.4	298.1	299.3	301.3	303.3	304.0	304.8	306.6	308.6
175°	298.3	297.7	298.9	298.9	299.4	300.6	301.7	301.2	301.7	302.4	304.1
177.5°	299.0	298.5	299.4	299.4	299.4	299.9	300.8	299.9	299.4	299.9	300.8
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



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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°	11.6	11.8	11.6	11.6	11.9	11.6	11.6
90°	17.3	18.4	19.0	19.0	19.0	19.0	19.0
92.5°	43.1	38.3	34.6	34.2	32.4	32.8	31.9
95°	115.7	91.6	78.9	71.4	66.9	65.0	65.6
97.5°	288.1	225.8	184.2	156.6	142.5	134.1	129.3
100°	454.4	375.5	305.8	258.0	233.3	216.5	206.2
102.5°	623.5	565.8	491.9	440.0	397.7	376.9	362.8
105°	764.8	772.3	753.3	717.6	681.9	657.1	649.0
107.5°	754.5	814.4	842.2	846.7	844.8	839.8	829.1
110°	722.2	795.9	843.1	867.9	878.9	884.0	883.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	684.0	762.8	816.9	851.3	869.6	879.4	882.5
115°	631.8	707.2	766.6	807.4	833.9	848.9	854.0
117.5°	589.4	657.8	713.5	755.2	783.2	798.9	803.2
120°	567.2	628.3	680.8	721.0	748.1	764.8	770.5
122.5°	548.9	606.6	654.0	690.1	716.8	731.6	736.5
125°	524.6	575.3	618.5	652.0	673.8	688.2	692.9
127.5°	501.2	549.0	588.9	617.9	638.4	650.9	654.6
130°	485.5	531.0	569.0	597.2	616.8	628.3	632.9
132.5°	470.8	512.6	548.3	576.0	595.6	606.2	610.4
135°	447.5	485.5	517.8	542.5	561.5	571.9	574.2
137.5°	429.0	459.1	487.3	509.8	526.1	535.2	538.7
140°	417.0	443.4	468.8	487.3	502.2	510.8	514.3
142.5°	406.4	429.2	450.4	467.9	481.5	489.2	489.9
145°	392.7	410.6	427.4	441.1	450.9	456.7	458.4
147.5°	381.7	395.7	407.9	419.3	427.1	431.0	432.0
150°	374.4	386.5	396.8	405.5	412.3	415.8	416.4
152.5°	368.4	378.6	387.6	394.4	400.4	402.9	403.0
155°	358.8	367.4	373.8	380.1	384.2	386.5	385.3
157.5°	349.1	356.4	361.3	365.8	369.2	370.2	370.2
160°	342.6	349.0	353.0	357.1	359.9	360.5	360.5
162.5°	336.7	342.1	345.2	349.2	351.2	351.7	351.3
165°	327.7	331.7	334.1	336.3	338.6	338.6	338.1
167.5°	319.5	322.2	324.4	325.4	326.7	326.6	325.9
170°	314.5	316.8	317.9	318.5	320.2	319.6	318.5
172.5°	309.8	311.6	312.4	313.0	313.8	313.2	312.5
175°	304.7	305.3	305.8	305.8	306.4	305.8	304.7
177.5°	300.8	301.3	301.3	301.3	301.3	300.8	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4

(END OF REPORT)