

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

Luminaire Tested: **S122DIP-S485D530U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331296
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-S485D530U835-4F0-1E-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: 4210.1 lumens
Efficiency: N/A
Efficacy: 128.4 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

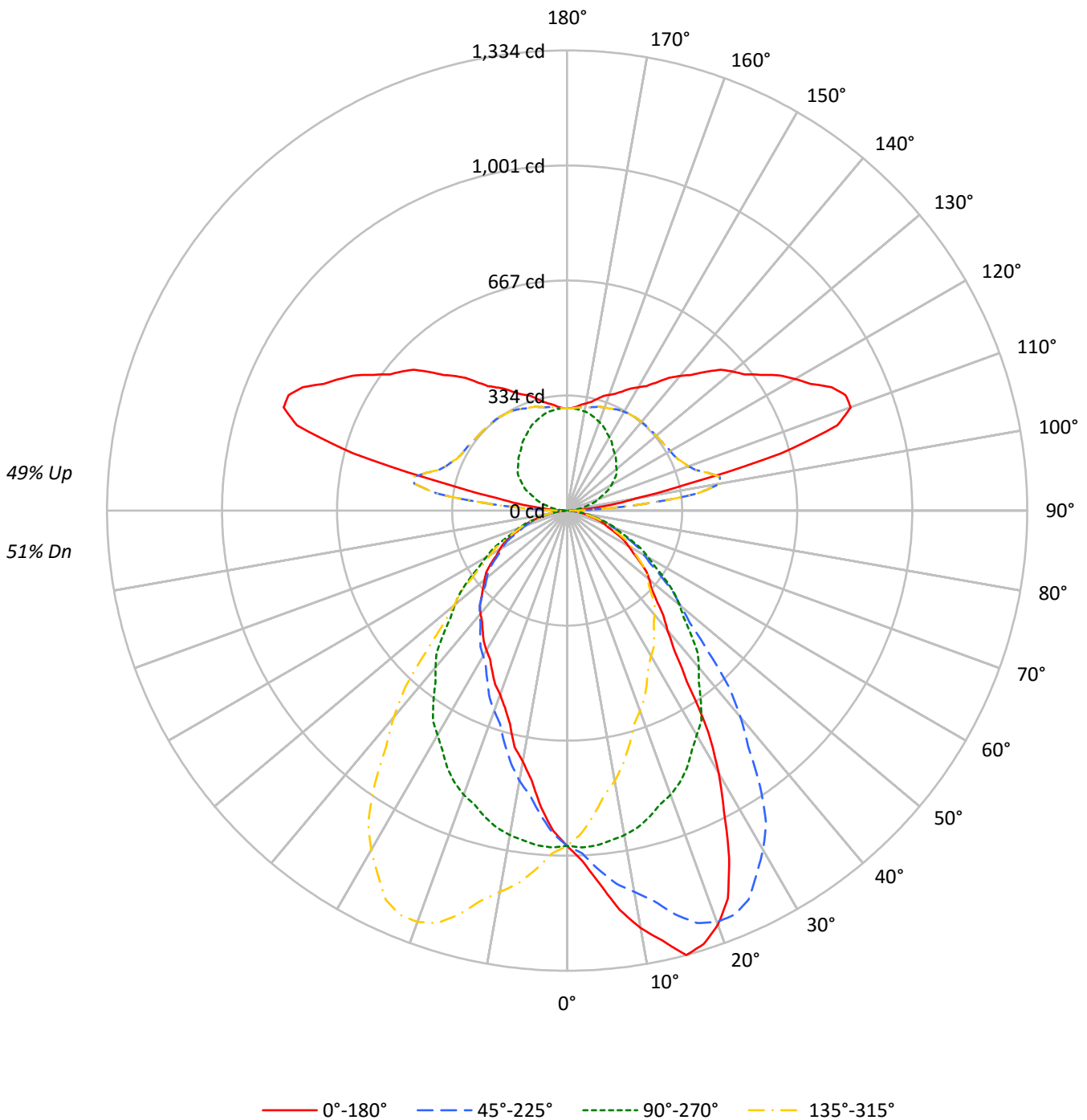
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15689	15689	15689	15689
5°	17590	15793	13994	15793
10°	20156	15662	12111	15662
15°	22298	15375	10700	15375
20°	21959	15067	9754	15067
25°	19800	14656	9155	14656
30°	16362	14001	8718	14001
35°	11925	13316	8406	13316
40°	9525	12507	8233	12507
45°	8323	11572	7999	11572
50°	7824	10665	7842	10665
55°	7212	9745	7631	9745
60°	6610	8767	7308	8767
65°	6021	7889	6991	7889
70°	5467	7034	6524	7034
75°	4847	6082	5777	6082
80°	4166	5040	4649	5040
85°	3742	3742	2760	3742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	2.2
10°-20°	269.0	6.4
20°-30°	390.5	9.3
30°-40°	412.0	9.8
40°-50°	364.8	8.7
50°-60°	291.1	6.9
60°-70°	197.9	4.7
70°-80°	101.5	2.4
80°-90°	27.1	0.6
90°-100°	118.6	2.8
100°-110°	402.4	9.6
110°-120°	427.5	10.2
120°-130°	351.9	8.4
130°-140°	282.6	6.7
140°-150°	213.5	5.1
150°-160°	150.1	3.6
160°-170°	88.3	2.1
170°-180°	28.8	0.7
0°-30°	752.0	17.9
0°-40°	1164.1	27.6
0°-60°	1820.1	43.2
0°-90°	2146.5	51.0
90°-120°	948.4	22.5
90°-150°	1796.4	42.7
90°-180°	2064.0	49.0
0°-180°	4210.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	1085	974	863	974	1085	108
15°	1334	920	640	920	1334	368
25°	1111	823	514	823	1111	502
35°	605	676	426	676	605	393
45°	364	507	350	507	364	287
55°	256	346	271	346	256	230
65°	158	206	183	206	158	157
75°	78	98	93	98	78	83
85°	20	20	15	20	20	23
90°	19	1	19	1	19	11
95°	65	20	65	20	65	85
105°	643	70	643	70	643	622
115°	846	123	846	123	846	828
125°	686	171	686	171	686	620
135°	569	201	569	201	569	442
145°	454	229	454	229	454	288
155°	382	261	382	261	382	178
165°	335	284	335	284	335	96
175°	302	296	302	296	302	29
180°	296	296	296	296	296	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1016.6	1016.9	1017.4	1012.7	1012.1	1012.1	1007.9	1004.3	1000.1	994.4	995.0
5°	1085.3	1089.4	1090.9	1086.4	1079.7	1078.9	1072.6	1062.1	1052.4	1044.6	1039.0
7.5°	1167.3	1168.9	1165.3	1159.4	1154.4	1145.4	1133.6	1122.0	1105.8	1090.9	1079.9
10°	1229.4	1231.7	1225.3	1216.7	1209.6	1199.2	1182.0	1164.4	1143.2	1122.6	1106.2
12.5°	1276.6	1282.2	1274.0	1272.9	1260.7	1246.4	1225.9	1217.0	1187.1	1158.5	1140.8
15°	1334.0	1333.6	1334.4	1327.3	1318.3	1316.1	1294.4	1270.9	1228.7	1211.9	1182.7
17.5°	1317.4	1323.1	1325.7	1325.6	1325.4	1324.0	1317.0	1302.2	1281.0	1253.8	1220.2
20°	1278.0	1285.4	1286.6	1295.2	1300.0	1306.4	1309.0	1304.9	1291.8	1269.0	1239.9
22.5°	1217.0	1219.1	1222.6	1236.0	1246.5	1262.4	1270.7	1284.5	1279.5	1268.4	1244.1
25°	1111.4	1107.7	1120.7	1127.5	1151.7	1177.1	1195.4	1215.6	1233.5	1244.4	1237.3
27.5°	984.6	979.0	998.6	1016.4	1036.1	1063.6	1092.1	1125.8	1153.8	1188.9	1200.9
30°	877.6	881.0	899.7	918.7	948.6	987.4	1019.5	1056.5	1096.5	1135.7	1162.9
32.5°	762.3	775.2	787.0	816.2	842.5	885.8	932.9	979.1	1029.0	1073.5	1115.7
35°	605.0	619.9	636.4	657.7	694.6	737.6	783.5	845.9	913.9	974.7	1024.8
37.5°	509.2	506.9	516.3	531.7	561.6	596.3	649.1	710.8	790.8	862.3	932.9
40°	451.9	450.4	457.1	471.3	494.1	519.5	565.8	619.9	694.3	781.6	865.7
42.5°	412.4	413.3	417.1	427.1	442.7	463.6	498.3	544.4	612.4	694.7	785.0
45°	364.5	367.1	371.2	376.1	385.0	402.2	421.6	454.5	508.3	577.0	665.9
47.5°	330.0	330.1	334.2	338.5	343.8	353.5	369.4	390.0	427.9	483.9	560.3
50°	311.5	308.8	311.8	315.2	320.8	327.5	338.0	357.4	382.8	428.0	491.8
52.5°	288.8	288.8	291.5	292.8	297.8	304.5	314.1	327.5	350.5	385.9	438.4
55°	256.2	258.1	259.6	261.8	266.3	271.1	278.6	287.6	305.5	332.0	370.8
57.5°	225.6	226.2	227.7	231.9	234.8	239.2	246.3	254.5	266.1	285.8	315.0
60°	204.7	204.7	207.6	209.5	213.2	217.7	223.3	231.2	241.6	257.7	281.2
62.5°	185.5	185.2	186.4	189.5	192.3	196.5	202.1	208.8	218.6	232.9	252.2
65°	157.6	156.9	159.1	159.8	162.8	166.9	171.4	178.5	186.4	196.8	214.0
67.5°	130.7	131.6	132.8	134.2	135.9	140.2	143.2	148.2	154.8	163.5	175.2
70°	115.8	115.8	115.8	116.9	119.1	121.4	124.4	128.5	134.8	142.3	152.7
72.5°	99.0	100.2	101.4	100.8	103.6	104.9	108.5	110.8	116.9	121.7	130.9
75°	77.7	77.7	77.7	79.5	80.7	81.8	84.0	86.3	89.3	95.2	100.1
77.5°	58.0	57.8	58.2	58.6	59.8	61.2	61.8	63.9	66.6	69.4	73.5
80°	44.8	45.6	45.9	46.7	46.7	47.4	47.8	50.4	52.3	54.2	56.8
82.5°	34.7	34.8	34.9	35.0	35.3	35.8	36.7	37.6	38.2	39.8	41.8
85°	20.2	19.8	19.8	20.5	20.2	20.2	20.9	21.7	21.7	22.0	23.2
87.5°	11.5	11.5	11.8	11.5	11.5	11.7	11.5	11.4	11.8	12.2	12.4
90°	18.8	18.8	18.8	18.8	18.8	18.2	17.1	18.2	18.8	19.4	18.8
92.5°	31.6	32.5	32.1	33.9	34.3	37.9	42.7	49.7	62.6	74.1	73.1
95°	65.0	64.4	66.2	70.7	78.1	90.7	114.6	149.4	195.6	223.6	197.9
97.5°	128.0	132.8	141.1	155.1	182.4	223.6	285.3	348.7	400.3	381.6	287.4
100°	204.2	214.4	231.0	255.5	302.8	371.8	450.0	520.7	532.6	450.5	310.2
102.5°	359.3	373.2	393.8	435.7	487.1	560.3	617.4	633.4	581.9	452.8	301.6
105°	642.7	650.7	675.2	710.6	745.9	764.8	757.3	692.9	574.3	422.6	284.6
107.5°	821.0	831.6	836.5	838.4	834.0	806.4	747.1	650.0	524.2	390.2	276.1
110°	874.8	875.4	870.3	859.4	834.9	788.1	715.1	613.1	492.7	374.7	274.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	873.9	870.8	861.1	843.0	808.9	755.3	677.3	579.3	470.8	364.6	274.8
115°	845.7	840.6	825.8	799.5	759.1	700.3	625.6	537.8	443.7	353.6	277.2
117.5°	795.4	791.1	775.5	747.8	706.5	651.4	583.6	506.5	426.6	348.2	281.3
120°	763.0	757.3	740.8	714.0	674.1	622.2	561.7	491.0	417.5	345.0	284.0
122.5°	729.3	724.5	709.8	683.4	647.6	600.7	543.5	478.7	409.7	343.2	287.2
125°	686.1	681.5	667.2	645.6	612.5	569.7	519.5	460.8	398.6	339.9	292.0
127.5°	648.2	644.5	632.2	611.9	583.1	543.6	496.3	443.1	388.4	338.0	296.9
130°	626.7	622.2	610.8	591.4	563.4	525.8	480.8	431.7	381.5	337.0	300.5
132.5°	604.4	600.3	589.8	570.4	542.9	507.6	466.2	420.8	376.0	336.6	304.2
135°	568.6	566.3	556.0	537.2	512.7	480.8	443.1	405.5	368.4	335.9	308.5
137.5°	533.4	530.0	521.0	504.8	482.5	454.6	424.8	393.3	363.0	335.8	312.4
140°	509.3	505.8	497.3	482.5	464.2	439.1	412.9	385.5	359.9	335.3	314.2
142.5°	485.1	484.4	476.8	463.3	446.0	425.0	402.4	379.1	356.7	335.3	315.6
145°	453.9	452.2	446.5	436.8	423.2	406.6	388.9	370.1	352.4	334.2	317.1
147.5°	427.8	426.8	422.9	415.2	403.9	391.8	378.0	363.2	348.1	332.1	317.5
150°	412.3	411.7	408.3	401.5	392.9	382.7	370.7	358.1	344.5	330.8	317.1
152.5°	399.1	399.0	396.5	390.5	383.8	374.9	364.8	353.1	341.3	328.5	316.2
155°	381.5	382.7	380.4	376.4	370.1	363.8	355.3	346.2	335.3	324.5	314.8
157.5°	366.6	366.6	365.6	362.2	357.8	352.9	345.7	338.1	329.7	320.4	312.2
160°	357.0	357.0	356.4	353.6	349.6	345.6	339.3	333.0	325.6	317.7	310.8
162.5°	347.9	348.3	347.8	345.8	341.8	338.8	333.4	328.0	322.0	315.4	309.4
165°	334.8	335.3	335.3	333.0	330.8	328.5	324.5	320.5	315.9	310.8	306.8
167.5°	322.7	323.4	323.5	322.2	321.2	319.1	316.4	313.3	310.0	306.8	304.2
170°	315.4	316.5	317.1	315.4	314.8	313.7	311.4	309.7	306.8	304.5	302.8
172.5°	309.4	310.1	310.7	309.9	309.3	308.6	306.8	305.6	303.6	301.8	301.0
175°	301.7	302.8	303.4	302.8	302.8	302.3	301.7	301.1	299.4	298.8	298.3
177.5°	297.0	297.9	298.4	298.4	298.4	298.4	297.9	297.9	297.0	296.5	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	997.1	994.7	993.2	987.9	983.1	978.3	976.8	977.4	970.8	964.6	961.9
5°	1036.0	1028.5	1021.4	1011.3	999.4	986.3	979.6	974.4	961.3	947.1	938.9
7.5°	1070.8	1060.1	1046.4	1027.5	1010.1	989.5	976.4	964.9	945.7	925.7	913.5
10°	1092.0	1077.4	1059.9	1036.7	1015.4	990.4	972.9	955.3	932.9	909.0	894.1
12.5°	1110.2	1090.6	1073.3	1043.6	1018.4	987.1	966.3	941.6	918.0	889.6	874.9
15°	1153.6	1117.4	1084.5	1050.9	1019.9	976.2	953.1	919.8	888.8	853.7	836.9
17.5°	1187.1	1146.4	1094.7	1052.0	1015.8	967.4	933.4	893.6	856.9	816.8	794.0
20°	1206.3	1159.6	1103.9	1053.2	1009.8	954.6	917.6	876.9	833.9	788.7	764.1
22.5°	1217.6	1168.6	1113.5	1048.7	997.9	944.1	897.6	853.0	809.4	760.7	734.8
25°	1221.2	1176.4	1118.1	1044.9	982.9	922.1	866.0	822.7	770.1	724.5	686.8
27.5°	1203.4	1171.3	1115.3	1037.9	965.7	894.5	832.1	783.0	727.4	678.0	640.0
30°	1181.6	1162.9	1108.4	1030.7	951.9	875.4	806.7	751.0	695.8	645.7	606.9
32.5°	1147.9	1143.8	1095.9	1020.6	937.3	851.2	780.1	723.8	662.6	613.4	576.4
35°	1081.5	1099.5	1069.2	997.9	909.7	816.8	739.8	675.6	612.1	565.0	530.3
37.5°	992.7	1037.2	1029.3	964.6	872.5	779.3	694.3	627.2	566.7	519.2	485.1
40°	931.4	988.2	996.4	939.2	846.3	750.3	660.3	593.4	534.4	491.1	456.7
42.5°	865.7	932.0	954.6	908.8	817.6	719.8	629.8	560.6	502.2	460.0	429.6
45°	755.5	843.3	884.0	857.8	769.7	669.6	577.0	506.8	453.8	414.2	390.6
47.5°	652.5	748.4	803.2	793.9	716.4	617.3	525.8	458.4	406.8	375.2	354.1
50°	579.6	678.2	744.3	747.3	678.2	580.0	488.1	424.6	377.2	347.7	330.5
52.5°	516.3	610.4	682.5	698.3	635.5	541.1	454.3	391.2	349.4	322.3	306.9
55°	433.6	513.1	593.1	622.2	571.8	482.1	401.8	346.2	307.0	288.3	274.9
57.5°	360.5	426.8	500.6	532.8	501.7	425.0	349.7	301.4	269.6	253.2	242.9
60°	321.9	374.2	439.9	478.4	451.5	383.2	317.4	271.5	245.4	230.8	221.1
62.5°	286.1	332.4	387.9	423.1	408.5	344.0	285.2	244.6	222.1	208.4	201.4
65°	236.0	272.6	315.6	348.1	338.4	289.4	241.3	206.5	188.6	177.8	172.2
67.5°	194.3	220.8	250.6	279.0	271.2	236.5	197.9	170.8	157.4	148.1	144.8
70°	168.1	188.2	214.7	237.5	231.2	202.8	172.2	149.0	137.4	129.6	126.2
72.5°	143.0	159.5	179.8	198.4	194.1	170.5	145.0	127.5	118.6	111.4	108.6
75°	107.9	120.6	133.0	145.3	144.2	125.9	110.9	97.5	90.4	84.8	83.7
77.5°	79.7	86.8	95.2	102.5	100.5	90.0	78.3	70.6	65.4	61.6	61.0
80°	60.9	65.0	71.0	76.2	73.6	69.1	59.8	54.2	50.4	46.7	45.2
82.5°	44.1	48.3	51.8	54.7	52.7	48.5	42.7	38.9	36.7	34.1	33.5
85°	23.2	25.4	26.9	27.6	26.9	24.3	21.7	20.2	18.3	17.2	16.8
87.5°	12.0	11.2	10.7	10.9	9.8	9.6	7.9	6.7	6.7	6.9	6.5
90°	15.4	11.4	8.6	6.8	5.7	4.6	2.3	0.6	2.3	4.6	5.7
92.5°	56.9	38.8	25.9	20.5	16.7	14.1	10.0	7.0	10.0	14.1	16.7
95°	131.7	82.1	55.9	42.2	33.1	27.9	22.2	20.0	22.2	27.9	33.1
97.5°	177.5	108.4	75.4	59.9	49.4	41.6	35.6	32.5	35.6	41.6	49.4
100°	187.1	117.5	87.3	71.3	59.9	50.8	45.6	43.9	45.6	50.8	59.9
102.5°	187.5	125.7	97.7	81.8	69.9	60.8	55.7	54.4	55.7	60.8	69.9
105°	190.5	139.7	112.9	96.9	84.4	75.8	71.9	69.6	71.9	75.8	84.4
107.5°	198.3	154.1	128.1	112.0	99.6	91.7	87.8	86.0	87.8	91.7	99.6
110°	204.7	163.7	138.6	122.0	110.1	102.7	99.2	96.9	99.2	102.7	110.1



TEST NUMBER: P331296

CATALOG NUMBER: S122DIP-S485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	211.6	172.8	148.6	131.6	120.1	113.1	109.3	107.0	109.3	113.1	120.1
115°	221.8	187.1	162.5	147.1	135.7	128.9	125.5	122.6	125.5	128.9	135.7
117.5°	232.8	200.2	177.5	161.5	150.6	144.5	141.1	138.8	141.1	144.5	150.6
120°	240.1	209.3	187.1	171.1	159.7	154.5	151.1	148.8	151.1	154.5	159.7
122.5°	246.5	218.0	197.1	180.7	169.3	163.7	160.3	158.4	160.3	163.7	169.3
125°	256.6	231.0	210.4	194.5	183.1	176.2	172.8	171.1	172.8	176.2	183.1
127.5°	266.1	243.1	223.1	206.7	195.7	188.2	183.4	181.1	183.4	188.2	195.7
130°	272.0	250.4	230.4	214.4	203.0	195.0	189.3	187.1	189.3	195.0	203.0
132.5°	278.0	256.7	237.7	221.7	209.9	201.4	195.3	192.5	195.3	201.4	209.9
135°	285.7	265.8	247.5	231.5	218.4	209.9	203.0	200.7	203.0	209.9	218.4
137.5°	291.6	273.1	255.0	240.2	227.2	218.1	211.2	208.5	211.2	218.1	227.2
140°	294.8	277.2	260.1	245.2	232.7	223.6	216.7	214.4	216.7	223.6	232.7
142.5°	297.6	280.4	263.7	249.8	237.7	228.6	222.2	220.4	222.2	228.6	237.7
145°	301.1	285.1	269.7	257.2	245.8	237.2	231.5	229.3	231.5	237.2	245.8
147.5°	303.1	289.0	274.5	263.4	253.9	246.0	240.5	238.8	240.5	246.0	253.9
150°	304.0	290.8	277.7	267.5	258.9	251.5	246.9	245.2	246.9	251.5	258.9
152.5°	304.4	292.7	280.9	271.6	263.5	257.0	252.4	251.6	252.4	257.0	263.5
155°	305.1	295.4	285.7	277.2	270.9	264.6	261.2	260.6	261.2	264.6	270.9
157.5°	305.1	297.3	289.1	282.0	276.9	271.5	268.7	268.1	268.7	271.5	276.9
160°	305.1	298.3	291.4	285.1	280.6	276.0	273.7	273.2	273.7	276.0	280.6
162.5°	304.6	298.7	292.8	287.9	283.8	280.1	277.8	278.2	277.8	280.1	283.8
165°	303.4	299.4	294.3	290.8	288.0	284.6	283.4	284.0	283.4	284.6	288.0
167.5°	302.6	299.3	295.5	293.4	291.3	289.1	288.1	288.8	288.1	289.1	291.3
170°	301.7	298.8	296.0	294.3	293.1	291.4	290.8	292.0	290.8	291.4	293.1
172.5°	300.3	298.4	296.4	295.2	294.5	292.8	293.1	293.8	293.1	292.8	294.5
175°	298.8	297.7	296.5	296.0	296.0	294.8	295.4	296.0	295.4	294.8	296.0
177.5°	297.9	297.0	296.5	296.5	296.5	295.6	296.1	297.0	296.1	295.6	296.5
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331296

CATALOG NUMBER: S122DIP-S485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	958.9	957.1	950.8	947.5	942.2	937.1	933.8	935.3	936.5	935.9	935.0
5°	931.4	924.3	913.5	904.1	897.4	885.1	879.9	877.3	875.0	872.4	869.8
7.5°	898.7	887.5	872.0	858.7	846.1	830.8	822.1	816.8	811.4	805.5	800.3
10°	875.4	859.7	843.3	824.6	809.7	795.8	783.5	775.3	767.8	760.7	755.5
12.5°	850.9	832.8	812.5	787.0	770.5	750.7	748.9	734.4	722.7	718.3	712.2
15°	811.9	786.5	760.7	730.5	717.4	699.5	688.3	677.1	667.0	659.9	658.0
17.5°	767.6	734.7	709.1	687.4	666.0	647.6	637.3	628.3	620.0	610.5	609.3
20°	733.8	705.5	677.5	658.4	636.4	617.7	605.0	596.0	588.9	583.3	578.5
22.5°	701.9	670.8	645.2	624.3	602.6	587.5	577.5	568.9	563.0	556.8	552.2
25°	650.6	626.3	598.3	574.8	556.8	547.1	538.9	531.4	527.7	523.6	518.4
27.5°	605.7	578.7	552.5	534.3	518.5	509.9	504.1	499.0	495.5	493.1	490.1
30°	574.0	546.7	526.2	508.3	495.2	486.6	482.9	479.9	475.8	474.3	472.8
32.5°	543.5	519.0	501.4	485.9	473.4	467.8	464.4	461.7	458.5	457.0	454.0
35°	500.4	479.9	462.7	454.1	444.0	439.2	436.6	432.8	429.9	428.4	428.0
37.5°	459.9	442.0	430.7	419.7	415.4	412.4	408.9	406.3	405.4	405.2	404.8
40°	433.6	419.0	408.9	400.0	398.1	393.6	390.6	388.4	388.4	388.8	388.4
42.5°	409.7	396.6	387.7	380.0	377.8	375.1	372.1	372.0	372.6	373.8	372.6
45°	373.5	364.1	357.8	354.0	349.9	347.3	346.9	348.1	348.4	348.8	349.9
47.5°	340.1	333.9	328.2	324.1	322.3	321.8	321.4	323.3	325.1	325.8	327.5
50°	320.4	313.3	308.5	305.9	304.4	303.6	304.4	306.6	308.1	310.0	311.1
52.5°	298.3	293.3	290.0	287.9	287.3	287.8	287.9	290.5	292.9	293.5	294.1
55°	267.8	264.0	263.3	259.9	261.4	261.0	262.9	264.4	266.6	268.9	269.3
57.5°	237.3	234.3	232.3	232.6	233.0	234.7	236.2	238.9	241.3	243.6	243.9
60°	217.0	215.5	214.4	214.4	215.1	217.4	219.2	221.8	223.3	224.8	225.9
62.5°	198.5	197.0	195.8	196.4	198.4	199.7	201.9	203.3	204.8	206.3	206.8
65°	169.2	168.4	169.6	170.3	170.7	172.5	175.2	176.3	177.8	178.5	181.1
67.5°	142.2	142.4	142.2	143.3	145.4	145.9	148.3	151.0	151.3	152.7	154.4
70°	124.0	124.7	125.5	126.2	128.1	128.8	130.7	131.8	133.3	134.4	135.6
72.5°	107.3	107.4	108.2	108.0	109.6	111.2	112.8	113.9	115.4	116.8	117.9
75°	82.5	82.5	83.3	83.7	85.5	87.4	87.0	87.8	89.3	90.8	91.5
77.5°	60.3	59.5	60.3	60.6	61.2	62.8	63.1	64.2	65.9	65.4	66.2
80°	45.9	44.8	45.9	46.3	46.3	48.2	48.2	48.9	50.0	48.9	50.0
82.5°	32.8	32.3	33.1	33.2	33.8	33.8	34.4	34.6	35.7	35.2	35.7
85°	16.4	16.1	16.4	16.1	16.4	16.8	16.8	16.4	16.4	17.2	16.1
87.5°	6.4	6.5	6.8	7.6	7.9	7.8	7.3	7.2	7.0	6.6	6.8
90°	6.8	8.6	11.4	15.4	18.8	19.4	18.8	18.2	17.1	18.2	18.8
92.5°	20.5	25.9	38.8	56.9	73.1	74.1	62.6	49.7	42.7	37.9	34.3
95°	42.2	55.9	82.1	131.7	197.9	223.6	195.6	149.4	114.6	90.7	78.1
97.5°	59.9	75.4	108.4	177.5	287.4	381.6	400.3	348.7	285.3	223.6	182.4
100°	71.3	87.3	117.5	187.1	310.2	450.5	532.6	520.7	450.0	371.8	302.8
102.5°	81.8	97.7	125.7	187.5	301.6	452.8	581.9	633.4	617.4	560.3	487.1
105°	96.9	112.9	139.7	190.5	284.6	422.6	574.3	692.9	757.3	764.8	745.9
107.5°	112.0	128.1	154.1	198.3	276.1	390.2	524.2	650.0	747.1	806.4	834.0
110°	122.0	138.6	163.7	204.7	274.3	374.7	492.7	613.1	715.1	788.1	834.9



TEST NUMBER: P331296

CATALOG NUMBER: S122DIP-S485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	131.6	148.6	172.8	211.6	274.8	364.6	470.8	579.3	677.3	755.3	808.9
115°	147.1	162.5	187.1	221.8	277.2	353.6	443.7	537.8	625.6	700.3	759.1
117.5°	161.5	177.5	200.2	232.8	281.3	348.2	426.6	506.5	583.6	651.4	706.5
120°	171.1	187.1	209.3	240.1	284.0	345.0	417.5	491.0	561.7	622.2	674.1
122.5°	180.7	197.1	218.0	246.5	287.2	343.2	409.7	478.7	543.5	600.7	647.6
125°	194.5	210.4	231.0	256.6	292.0	339.9	398.6	460.8	519.5	569.7	612.5
127.5°	206.7	223.1	243.1	266.1	296.9	338.0	388.4	443.1	496.3	543.6	583.1
130°	214.4	230.4	250.4	272.0	300.5	337.0	381.5	431.7	480.8	525.8	563.4
132.5°	221.7	237.7	256.7	278.0	304.2	336.6	376.0	420.8	466.2	507.6	542.9
135°	231.5	247.5	265.8	285.7	308.5	335.9	368.4	405.5	443.1	480.8	512.7
137.5°	240.2	255.0	273.1	291.6	312.4	335.8	363.0	393.3	424.8	454.6	482.5
140°	245.2	260.1	277.2	294.8	314.2	335.3	359.9	385.5	412.9	439.1	464.2
142.5°	249.8	263.7	280.4	297.6	315.6	335.3	356.7	379.1	402.4	425.0	446.0
145°	257.2	269.7	285.1	301.1	317.1	334.2	352.4	370.1	388.9	406.6	423.2
147.5°	263.4	274.5	289.0	303.1	317.5	332.1	348.1	363.2	378.0	391.8	403.9
150°	267.5	277.7	290.8	304.0	317.1	330.8	344.5	358.1	370.7	382.7	392.9
152.5°	271.6	280.9	292.7	304.4	316.2	328.5	341.3	353.1	364.8	374.9	383.8
155°	277.2	285.7	295.4	305.1	314.8	324.5	335.3	346.2	355.3	363.8	370.1
157.5°	282.0	289.1	297.3	305.1	312.2	320.4	329.7	338.1	345.7	352.9	357.8
160°	285.1	291.4	298.3	305.1	310.8	317.7	325.6	333.0	339.3	345.6	349.6
162.5°	287.9	292.8	298.7	304.6	309.4	315.4	322.0	328.0	333.4	338.8	341.8
165°	290.8	294.3	299.4	303.4	306.8	310.8	315.9	320.5	324.5	328.5	330.8
167.5°	293.4	295.5	299.3	302.6	304.2	306.8	310.0	313.3	316.4	319.1	321.2
170°	294.3	296.0	298.8	301.7	302.8	304.5	306.8	309.7	311.4	313.7	314.8
172.5°	295.2	296.4	298.4	300.3	301.0	301.8	303.6	305.6	306.8	308.6	309.3
175°	296.0	296.5	297.7	298.8	298.3	298.8	299.4	301.1	301.7	302.3	302.8
177.5°	296.5	296.5	297.0	297.9	297.0	296.5	297.0	297.9	297.9	298.4	298.4
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331296

CATALOG NUMBER: S122DIP-S485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	932.0	931.4	931.4	928.7	931.4	931.4	932.0	935.0	935.9	936.5	935.3
5°	864.6	863.4	861.6	863.4	861.6	863.4	864.6	869.8	872.4	875.0	877.3
7.5°	797.9	793.4	792.7	788.3	792.7	793.4	797.9	800.3	805.5	811.4	816.8
10°	749.2	746.2	745.8	738.7	745.8	746.2	749.2	755.5	760.7	767.8	775.3
12.5°	712.1	704.9	706.4	702.3	706.4	704.9	712.1	712.2	718.3	722.7	734.4
15°	647.9	647.9	646.5	640.1	646.5	647.9	647.9	658.0	659.9	667.0	677.1
17.5°	601.9	601.1	597.5	599.3	597.5	601.1	601.9	609.3	610.5	620.0	628.3
20°	574.4	572.1	567.7	567.7	567.7	572.1	574.4	578.5	583.3	588.9	596.0
22.5°	548.4	548.2	543.5	545.0	543.5	548.2	548.4	552.2	556.8	563.0	568.9
25°	518.0	515.0	512.8	513.9	512.8	515.0	518.0	518.4	523.6	527.7	531.4
27.5°	489.2	487.5	487.4	484.3	487.4	487.5	489.2	490.1	493.1	495.5	499.0
30°	472.4	468.7	469.4	467.6	469.4	468.7	472.4	472.8	474.3	475.8	479.9
32.5°	453.3	452.0	451.2	449.6	451.2	452.0	453.3	454.0	457.0	458.5	461.7
35°	427.2	427.6	425.7	426.5	425.7	427.6	427.2	428.0	428.4	429.9	432.8
37.5°	404.5	405.7	404.8	405.0	404.8	405.7	404.5	404.8	405.2	405.4	406.3
40°	389.5	389.5	389.5	390.6	389.5	389.5	389.5	388.4	388.8	388.4	388.4
42.5°	375.2	374.6	374.0	373.9	374.0	374.6	375.2	372.6	373.8	372.6	372.0
45°	350.7	351.8	352.2	350.3	352.2	351.8	350.7	349.9	348.8	348.4	348.1
47.5°	328.5	328.6	328.5	330.1	328.5	328.6	328.5	327.5	325.8	325.1	323.3
50°	313.0	312.2	313.0	312.2	313.0	312.2	313.0	311.1	310.0	308.1	306.6
52.5°	296.5	296.7	296.2	296.1	296.2	296.7	296.5	294.1	293.5	292.9	290.5
55°	270.8	271.5	271.1	271.1	271.1	271.5	270.8	269.3	268.9	266.6	264.4
57.5°	244.1	244.8	245.3	243.6	245.3	244.8	244.1	243.9	243.6	241.3	238.9
60°	225.6	227.4	227.1	226.3	227.1	227.4	225.6	225.9	224.8	223.3	221.8
62.5°	208.5	209.2	209.1	209.0	209.1	209.2	208.5	206.8	206.3	204.8	203.3
65°	182.2	183.0	181.9	183.0	181.9	183.0	182.2	181.1	178.5	177.8	176.3
67.5°	153.9	154.2	155.0	155.5	155.0	154.2	153.9	154.4	152.7	151.3	151.0
70°	136.3	135.9	137.1	138.2	137.1	135.9	136.3	135.6	134.4	133.3	131.8
72.5°	117.8	118.6	118.2	119.1	118.2	118.6	117.8	117.9	116.8	115.4	113.9
75°	90.8	91.9	91.5	92.6	91.5	91.9	90.8	91.5	90.8	89.3	87.8
77.5°	65.6	65.7	65.6	66.2	65.6	65.7	65.6	66.2	65.4	65.9	64.2
80°	50.0	49.3	48.5	50.0	48.5	49.3	50.0	50.0	48.9	50.0	48.9
82.5°	34.8	35.3	34.5	34.5	34.5	35.3	34.8	35.7	35.2	35.7	34.6
85°	16.1	15.7	14.9	14.9	14.9	15.7	16.1	16.1	17.2	16.4	16.4
87.5°	6.8	6.5	6.5	6.2	6.5	6.5	6.8	6.8	6.6	7.0	7.2
90°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.2	17.1	18.2
92.5°	33.9	32.1	32.5	31.6	32.5	32.1	33.9	34.3	37.9	42.7	49.7
95°	70.7	66.2	64.4	65.0	64.4	66.2	70.7	78.1	90.7	114.6	149.4
97.5°	155.1	141.1	132.8	128.0	132.8	141.1	155.1	182.4	223.6	285.3	348.7
100°	255.5	231.0	214.4	204.2	214.4	231.0	255.5	302.8	371.8	450.0	520.7
102.5°	435.7	393.8	373.2	359.3	373.2	393.8	435.7	487.1	560.3	617.4	633.4
105°	710.6	675.2	650.7	642.7	650.7	675.2	710.6	745.9	764.8	757.3	692.9
107.5°	838.4	836.5	831.6	821.0	831.6	836.5	838.4	834.0	806.4	747.1	650.0
110°	859.4	870.3	875.4	874.8	875.4	870.3	859.4	834.9	788.1	715.1	613.1



TEST NUMBER: P331296

CATALOG NUMBER: S122DIP-S485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	843.0	861.1	870.8	873.9	870.8	861.1	843.0	808.9	755.3	677.3	579.3
115°	799.5	825.8	840.6	845.7	840.6	825.8	799.5	759.1	700.3	625.6	537.8
117.5°	747.8	775.5	791.1	795.4	791.1	775.5	747.8	706.5	651.4	583.6	506.5
120°	714.0	740.8	757.3	763.0	757.3	740.8	714.0	674.1	622.2	561.7	491.0
122.5°	683.4	709.8	724.5	729.3	724.5	709.8	683.4	647.6	600.7	543.5	478.7
125°	645.6	667.2	681.5	686.1	681.5	667.2	645.6	612.5	569.7	519.5	460.8
127.5°	611.9	632.2	644.5	648.2	644.5	632.2	611.9	583.1	543.6	496.3	443.1
130°	591.4	610.8	622.2	626.7	622.2	610.8	591.4	563.4	525.8	480.8	431.7
132.5°	570.4	589.8	600.3	604.4	600.3	589.8	570.4	542.9	507.6	466.2	420.8
135°	537.2	556.0	566.3	568.6	566.3	556.0	537.2	512.7	480.8	443.1	405.5
137.5°	504.8	521.0	530.0	533.4	530.0	521.0	504.8	482.5	454.6	424.8	393.3
140°	482.5	497.3	505.8	509.3	505.8	497.3	482.5	464.2	439.1	412.9	385.5
142.5°	463.3	476.8	484.4	485.1	484.4	476.8	463.3	446.0	425.0	402.4	379.1
145°	436.8	446.5	452.2	453.9	452.2	446.5	436.8	423.2	406.6	388.9	370.1
147.5°	415.2	422.9	426.8	427.8	426.8	422.9	415.2	403.9	391.8	378.0	363.2
150°	401.5	408.3	411.7	412.3	411.7	408.3	401.5	392.9	382.7	370.7	358.1
152.5°	390.5	396.5	399.0	399.1	399.0	396.5	390.5	383.8	374.9	364.8	353.1
155°	376.4	380.4	382.7	381.5	382.7	380.4	376.4	370.1	363.8	355.3	346.2
157.5°	362.2	365.6	366.6	366.6	366.6	365.6	362.2	357.8	352.9	345.7	338.1
160°	353.6	356.4	357.0	357.0	357.0	356.4	353.6	349.6	345.6	339.3	333.0
162.5°	345.8	347.8	348.3	347.9	348.3	347.8	345.8	341.8	338.8	333.4	328.0
165°	333.0	335.3	335.3	334.8	335.3	335.3	333.0	330.8	328.5	324.5	320.5
167.5°	322.2	323.5	323.4	322.7	323.4	323.5	322.2	321.2	319.1	316.4	313.3
170°	315.4	317.1	316.5	315.4	316.5	317.1	315.4	314.8	313.7	311.4	309.7
172.5°	309.9	310.7	310.1	309.4	310.1	310.7	309.9	309.3	308.6	306.8	305.6
175°	302.8	303.4	302.8	301.7	302.8	303.4	302.8	302.8	302.3	301.7	301.1
177.5°	298.4	298.4	297.9	297.0	297.9	298.4	298.4	298.4	298.4	297.9	297.9
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331296

CATALOG NUMBER: S122DIP-S485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	933.8	937.1	942.2	947.5	950.8	957.1	958.9	961.9	964.6	970.8	977.4
5°	879.9	885.1	897.4	904.1	913.5	924.3	931.4	938.9	947.1	961.3	974.4
7.5°	822.1	830.8	846.1	858.7	872.0	887.5	898.7	913.5	925.7	945.7	964.9
10°	783.5	795.8	809.7	824.6	843.3	859.7	875.4	894.1	909.0	932.9	955.3
12.5°	748.9	750.7	770.5	787.0	812.5	832.8	850.9	874.9	889.6	918.0	941.6
15°	688.3	699.5	717.4	730.5	760.7	786.5	811.9	836.9	853.7	888.8	919.8
17.5°	637.3	647.6	666.0	687.4	709.1	734.7	767.6	794.0	816.8	856.9	893.6
20°	605.0	617.7	636.4	658.4	677.5	705.5	733.8	764.1	788.7	833.9	876.9
22.5°	577.5	587.5	602.6	624.3	645.2	670.8	701.9	734.8	760.7	809.4	853.0
25°	538.9	547.1	556.8	574.8	598.3	626.3	650.6	686.8	724.5	770.1	822.7
27.5°	504.1	509.9	518.5	534.3	552.5	578.7	605.7	640.0	678.0	727.4	783.0
30°	482.9	486.6	495.2	508.3	526.2	546.7	574.0	606.9	645.7	695.8	751.0
32.5°	464.4	467.8	473.4	485.9	501.4	519.0	543.5	576.4	613.4	662.6	723.8
35°	436.6	439.2	444.0	454.1	462.7	479.9	500.4	530.3	565.0	612.1	675.6
37.5°	408.9	412.4	415.4	419.7	430.7	442.0	459.9	485.1	519.2	566.7	627.2
40°	390.6	393.6	398.1	400.0	408.9	419.0	433.6	456.7	491.1	534.4	593.4
42.5°	372.1	375.1	377.8	380.0	387.7	396.6	409.7	429.6	460.0	502.2	560.6
45°	346.9	347.3	349.9	354.0	357.8	364.1	373.5	390.6	414.2	453.8	506.8
47.5°	321.4	321.8	322.3	324.1	328.2	333.9	340.1	354.1	375.2	406.8	458.4
50°	304.4	303.6	304.4	305.9	308.5	313.3	320.4	330.5	347.7	377.2	424.6
52.5°	287.9	287.8	287.3	287.9	290.0	293.3	298.3	306.9	322.3	349.4	391.2
55°	262.9	261.0	261.4	259.9	263.3	264.0	267.8	274.9	288.3	307.0	346.2
57.5°	236.2	234.7	233.0	232.6	232.3	234.3	237.3	242.9	253.2	269.6	301.4
60°	219.2	217.4	215.1	214.4	214.4	215.5	217.0	221.1	230.8	245.4	271.5
62.5°	201.9	199.7	198.4	196.4	195.8	197.0	198.5	201.4	208.4	222.1	244.6
65°	175.2	172.5	170.7	170.3	169.6	168.4	169.2	172.2	177.8	188.6	206.5
67.5°	148.3	145.9	145.4	143.3	142.2	142.4	142.2	144.8	148.1	157.4	170.8
70°	130.7	128.8	128.1	126.2	125.5	124.7	124.0	126.2	129.6	137.4	149.0
72.5°	112.8	111.2	109.6	108.0	108.2	107.4	107.3	108.6	111.4	118.6	127.5
75°	87.0	87.4	85.5	83.7	83.3	82.5	82.5	83.7	84.8	90.4	97.5
77.5°	63.1	62.8	61.2	60.6	60.3	59.5	60.3	61.0	61.6	65.4	70.6
80°	48.2	48.2	46.3	46.3	45.9	44.8	45.9	45.2	46.7	50.4	54.2
82.5°	34.4	33.8	33.8	33.2	33.1	32.3	32.8	33.5	34.1	36.7	38.9
85°	16.8	16.8	16.4	16.1	16.4	16.1	16.4	16.8	17.2	18.3	20.2
87.5°	7.3	7.8	7.9	7.6	6.8	6.5	6.4	6.5	6.9	6.7	6.7
90°	18.8	19.4	18.8	15.4	11.4	8.6	6.8	5.7	4.6	2.3	0.6
92.5°	62.6	74.1	73.1	56.9	38.8	25.9	20.5	16.7	14.1	10.0	7.0
95°	195.6	223.6	197.9	131.7	82.1	55.9	42.2	33.1	27.9	22.2	20.0
97.5°	400.3	381.6	287.4	177.5	108.4	75.4	59.9	49.4	41.6	35.6	32.5
100°	532.6	450.5	310.2	187.1	117.5	87.3	71.3	59.9	50.8	45.6	43.9
102.5°	581.9	452.8	301.6	187.5	125.7	97.7	81.8	69.9	60.8	55.7	54.4
105°	574.3	422.6	284.6	190.5	139.7	112.9	96.9	84.4	75.8	71.9	69.6
107.5°	524.2	390.2	276.1	198.3	154.1	128.1	112.0	99.6	91.7	87.8	86.0
110°	492.7	374.7	274.3	204.7	163.7	138.6	122.0	110.1	102.7	99.2	96.9



TEST NUMBER: P331296

CATALOG NUMBER: S122DIP-S485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	470.8	364.6	274.8	211.6	172.8	148.6	131.6	120.1	113.1	109.3	107.0
115°	443.7	353.6	277.2	221.8	187.1	162.5	147.1	135.7	128.9	125.5	122.6
117.5°	426.6	348.2	281.3	232.8	200.2	177.5	161.5	150.6	144.5	141.1	138.8
120°	417.5	345.0	284.0	240.1	209.3	187.1	171.1	159.7	154.5	151.1	148.8
122.5°	409.7	343.2	287.2	246.5	218.0	197.1	180.7	169.3	163.7	160.3	158.4
125°	398.6	339.9	292.0	256.6	231.0	210.4	194.5	183.1	176.2	172.8	171.1
127.5°	388.4	338.0	296.9	266.1	243.1	223.1	206.7	195.7	188.2	183.4	181.1
130°	381.5	337.0	300.5	272.0	250.4	230.4	214.4	203.0	195.0	189.3	187.1
132.5°	376.0	336.6	304.2	278.0	256.7	237.7	221.7	209.9	201.4	195.3	192.5
135°	368.4	335.9	308.5	285.7	265.8	247.5	231.5	218.4	209.9	203.0	200.7
137.5°	363.0	335.8	312.4	291.6	273.1	255.0	240.2	227.2	218.1	211.2	208.5
140°	359.9	335.3	314.2	294.8	277.2	260.1	245.2	232.7	223.6	216.7	214.4
142.5°	356.7	335.3	315.6	297.6	280.4	263.7	249.8	237.7	228.6	222.2	220.4
145°	352.4	334.2	317.1	301.1	285.1	269.7	257.2	245.8	237.2	231.5	229.3
147.5°	348.1	332.1	317.5	303.1	289.0	274.5	263.4	253.9	246.0	240.5	238.8
150°	344.5	330.8	317.1	304.0	290.8	277.7	267.5	258.9	251.5	246.9	245.2
152.5°	341.3	328.5	316.2	304.4	292.7	280.9	271.6	263.5	257.0	252.4	251.6
155°	335.3	324.5	314.8	305.1	295.4	285.7	277.2	270.9	264.6	261.2	260.6
157.5°	329.7	320.4	312.2	305.1	297.3	289.1	282.0	276.9	271.5	268.7	268.1
160°	325.6	317.7	310.8	305.1	298.3	291.4	285.1	280.6	276.0	273.7	273.2
162.5°	322.0	315.4	309.4	304.6	298.7	292.8	287.9	283.8	280.1	277.8	278.2
165°	315.9	310.8	306.8	303.4	299.4	294.3	290.8	288.0	284.6	283.4	284.0
167.5°	310.0	306.8	304.2	302.6	299.3	295.5	293.4	291.3	289.1	288.1	288.8
170°	306.8	304.5	302.8	301.7	298.8	296.0	294.3	293.1	291.4	290.8	292.0
172.5°	303.6	301.8	301.0	300.3	298.4	296.4	295.2	294.5	292.8	293.1	293.8
175°	299.4	298.8	298.3	298.8	297.7	296.5	296.0	296.0	294.8	295.4	296.0
177.5°	297.0	296.5	297.0	297.9	297.0	296.5	296.5	296.5	295.6	296.1	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



TEST NUMBER: P331296

CATALOG NUMBER: S122DIP-S485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	976.8	978.3	983.1	987.9	993.2	994.7	997.1	995.0	994.4	1000.1	1004.3
5°	979.6	986.3	999.4	1011.3	1021.4	1028.5	1036.0	1039.0	1044.6	1052.4	1062.1
7.5°	976.4	989.5	1010.1	1027.5	1046.4	1060.1	1070.8	1079.9	1090.9	1105.8	1122.0
10°	972.9	990.4	1015.4	1036.7	1059.9	1077.4	1092.0	1106.2	1122.6	1143.2	1164.4
12.5°	966.3	987.1	1018.4	1043.6	1073.3	1090.6	1110.2	1140.8	1158.5	1187.1	1217.0
15°	953.1	976.2	1019.9	1050.9	1084.5	1117.4	1153.6	1182.7	1211.9	1228.7	1270.9
17.5°	933.4	967.4	1015.8	1052.0	1094.7	1146.4	1187.1	1220.2	1253.8	1281.0	1302.2
20°	917.6	954.6	1009.8	1053.2	1103.9	1159.6	1206.3	1239.9	1269.0	1291.8	1304.9
22.5°	897.6	944.1	997.9	1048.7	1113.5	1168.6	1217.6	1244.1	1268.4	1279.5	1284.5
25°	866.0	922.1	982.9	1044.9	1118.1	1176.4	1221.2	1237.3	1244.4	1233.5	1215.6
27.5°	832.1	894.5	965.7	1037.9	1115.3	1171.3	1203.4	1200.9	1188.9	1153.8	1125.8
30°	806.7	875.4	951.9	1030.7	1108.4	1162.9	1181.6	1162.9	1135.7	1096.5	1056.5
32.5°	780.1	851.2	937.3	1020.6	1095.9	1143.8	1147.9	1115.7	1073.5	1029.0	979.1
35°	739.8	816.8	909.7	997.9	1069.2	1099.5	1081.5	1024.8	974.7	913.9	845.9
37.5°	694.3	779.3	872.5	964.6	1029.3	1037.2	992.7	932.9	862.3	790.8	710.8
40°	660.3	750.3	846.3	939.2	996.4	988.2	931.4	865.7	781.6	694.3	619.9
42.5°	629.8	719.8	817.6	908.8	954.6	932.0	865.7	785.0	694.7	612.4	544.4
45°	577.0	669.6	769.7	857.8	884.0	843.3	755.5	665.9	577.0	508.3	454.5
47.5°	525.8	617.3	716.4	793.9	803.2	748.4	652.5	560.3	483.9	427.9	390.0
50°	488.1	580.0	678.2	747.3	744.3	678.2	579.6	491.8	428.0	382.8	357.4
52.5°	454.3	541.1	635.5	698.3	682.5	610.4	516.3	438.4	385.9	350.5	327.5
55°	401.8	482.1	571.8	622.2	593.1	513.1	433.6	370.8	332.0	305.5	287.6
57.5°	349.7	425.0	501.7	532.8	500.6	426.8	360.5	315.0	285.8	266.1	254.5
60°	317.4	383.2	451.5	478.4	439.9	374.2	321.9	281.2	257.7	241.6	231.2
62.5°	285.2	344.0	408.5	423.1	387.9	332.4	286.1	252.2	232.9	218.6	208.8
65°	241.3	289.4	338.4	348.1	315.6	272.6	236.0	214.0	196.8	186.4	178.5
67.5°	197.9	236.5	271.2	279.0	250.6	220.8	194.3	175.2	163.5	154.8	148.2
70°	172.2	202.8	231.2	237.5	214.7	188.2	168.1	152.7	142.3	134.8	128.5
72.5°	145.0	170.5	194.1	198.4	179.8	159.5	143.0	130.9	121.7	116.9	110.8
75°	110.9	125.9	144.2	145.3	133.0	120.6	107.9	100.1	95.2	89.3	86.3
77.5°	78.3	90.0	100.5	102.5	95.2	86.8	79.7	73.5	69.4	66.6	63.9
80°	59.8	69.1	73.6	76.2	71.0	65.0	60.9	56.8	54.2	52.3	50.4
82.5°	42.7	48.5	52.7	54.7	51.8	48.3	44.1	41.8	39.8	38.2	37.6
85°	21.7	24.3	26.9	27.6	26.9	25.4	23.2	23.2	22.0	21.7	21.7
87.5°	7.9	9.6	9.8	10.9	10.7	11.2	12.0	12.4	12.2	11.8	11.4
90°	2.3	4.6	5.7	6.8	8.6	11.4	15.4	18.8	19.4	18.8	18.2
92.5°	10.0	14.1	16.7	20.5	25.9	38.8	56.9	73.1	74.1	62.6	49.7
95°	22.2	27.9	33.1	42.2	55.9	82.1	131.7	197.9	223.6	195.6	149.4
97.5°	35.6	41.6	49.4	59.9	75.4	108.4	177.5	287.4	381.6	400.3	348.7
100°	45.6	50.8	59.9	71.3	87.3	117.5	187.1	310.2	450.5	532.6	520.7
102.5°	55.7	60.8	69.9	81.8	97.7	125.7	187.5	301.6	452.8	581.9	633.4
105°	71.9	75.8	84.4	96.9	112.9	139.7	190.5	284.6	422.6	574.3	692.9
107.5°	87.8	91.7	99.6	112.0	128.1	154.1	198.3	276.1	390.2	524.2	650.0
110°	99.2	102.7	110.1	122.0	138.6	163.7	204.7	274.3	374.7	492.7	613.1



TEST NUMBER: P331296

CATALOG NUMBER: S122DIP-S485D530U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	109.3	113.1	120.1	131.6	148.6	172.8	211.6	274.8	364.6	470.8	579.3
115°	125.5	128.9	135.7	147.1	162.5	187.1	221.8	277.2	353.6	443.7	537.8
117.5°	141.1	144.5	150.6	161.5	177.5	200.2	232.8	281.3	348.2	426.6	506.5
120°	151.1	154.5	159.7	171.1	187.1	209.3	240.1	284.0	345.0	417.5	491.0
122.5°	160.3	163.7	169.3	180.7	197.1	218.0	246.5	287.2	343.2	409.7	478.7
125°	172.8	176.2	183.1	194.5	210.4	231.0	256.6	292.0	339.9	398.6	460.8
127.5°	183.4	188.2	195.7	206.7	223.1	243.1	266.1	296.9	338.0	388.4	443.1
130°	189.3	195.0	203.0	214.4	230.4	250.4	272.0	300.5	337.0	381.5	431.7
132.5°	195.3	201.4	209.9	221.7	237.7	256.7	278.0	304.2	336.6	376.0	420.8
135°	203.0	209.9	218.4	231.5	247.5	265.8	285.7	308.5	335.9	368.4	405.5
137.5°	211.2	218.1	227.2	240.2	255.0	273.1	291.6	312.4	335.8	363.0	393.3
140°	216.7	223.6	232.7	245.2	260.1	277.2	294.8	314.2	335.3	359.9	385.5
142.5°	222.2	228.6	237.7	249.8	263.7	280.4	297.6	315.6	335.3	356.7	379.1
145°	231.5	237.2	245.8	257.2	269.7	285.1	301.1	317.1	334.2	352.4	370.1
147.5°	240.5	246.0	253.9	263.4	274.5	289.0	303.1	317.5	332.1	348.1	363.2
150°	246.9	251.5	258.9	267.5	277.7	290.8	304.0	317.1	330.8	344.5	358.1
152.5°	252.4	257.0	263.5	271.6	280.9	292.7	304.4	316.2	328.5	341.3	353.1
155°	261.2	264.6	270.9	277.2	285.7	295.4	305.1	314.8	324.5	335.3	346.2
157.5°	268.7	271.5	276.9	282.0	289.1	297.3	305.1	312.2	320.4	329.7	338.1
160°	273.7	276.0	280.6	285.1	291.4	298.3	305.1	310.8	317.7	325.6	333.0
162.5°	277.8	280.1	283.8	287.9	292.8	298.7	304.6	309.4	315.4	322.0	328.0
165°	283.4	284.6	288.0	290.8	294.3	299.4	303.4	306.8	310.8	315.9	320.5
167.5°	288.1	289.1	291.3	293.4	295.5	299.3	302.6	304.2	306.8	310.0	313.3
170°	290.8	291.4	293.1	294.3	296.0	298.8	301.7	302.8	304.5	306.8	309.7
172.5°	293.1	292.8	294.5	295.2	296.4	298.4	300.3	301.0	301.8	303.6	305.6
175°	295.4	294.8	296.0	296.0	296.5	297.7	298.8	298.3	298.8	299.4	301.1
177.5°	296.1	295.6	296.5	296.5	296.5	297.0	297.9	297.0	296.5	297.0	297.9
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1007.9	1012.1	1012.1	1012.7	1017.4	1016.9	1016.6
5°	1072.6	1078.9	1079.7	1086.4	1090.9	1089.4	1085.3
7.5°	1133.6	1145.4	1154.4	1159.4	1165.3	1168.9	1167.3
10°	1182.0	1199.2	1209.6	1216.7	1225.3	1231.7	1229.4
12.5°	1225.9	1246.4	1260.7	1272.9	1274.0	1282.2	1276.6
15°	1294.4	1316.1	1318.3	1327.3	1334.4	1333.6	1334.0
17.5°	1317.0	1324.0	1325.4	1325.6	1325.7	1323.1	1317.4
20°	1309.0	1306.4	1300.0	1295.2	1286.6	1285.4	1278.0
22.5°	1270.7	1262.4	1246.5	1236.0	1222.6	1219.1	1217.0
25°	1195.4	1177.1	1151.7	1127.5	1120.7	1107.7	1111.4
27.5°	1092.1	1063.6	1036.1	1016.4	998.6	979.0	984.6
30°	1019.5	987.4	948.6	918.7	899.7	881.0	877.6
32.5°	932.9	885.8	842.5	816.2	787.0	775.2	762.3
35°	783.5	737.6	694.6	657.7	636.4	619.9	605.0
37.5°	649.1	596.3	561.6	531.7	516.3	506.9	509.2
40°	565.8	519.5	494.1	471.3	457.1	450.4	451.9
42.5°	498.3	463.6	442.7	427.1	417.1	413.3	412.4
45°	421.6	402.2	385.0	376.1	371.2	367.1	364.5
47.5°	369.4	353.5	343.8	338.5	334.2	330.1	330.0
50°	338.0	327.5	320.8	315.2	311.8	308.8	311.5
52.5°	314.1	304.5	297.8	292.8	291.5	288.8	288.8
55°	278.6	271.1	266.3	261.8	259.6	258.1	256.2
57.5°	246.3	239.2	234.8	231.9	227.7	226.2	225.6
60°	223.3	217.7	213.2	209.5	207.6	204.7	204.7
62.5°	202.1	196.5	192.3	189.5	186.4	185.2	185.5
65°	171.4	166.9	162.8	159.8	159.1	156.9	157.6
67.5°	143.2	140.2	135.9	134.2	132.8	131.6	130.7
70°	124.4	121.4	119.1	116.9	115.8	115.8	115.8
72.5°	108.5	104.9	103.6	100.8	101.4	100.2	99.0
75°	84.0	81.8	80.7	79.5	77.7	77.7	77.7
77.5°	61.8	61.2	59.8	58.6	58.2	57.8	58.0
80°	47.8	47.4	46.7	46.7	45.9	45.6	44.8
82.5°	36.7	35.8	35.3	35.0	34.9	34.8	34.7
85°	20.9	20.2	20.2	20.5	19.8	19.8	20.2
87.5°	11.5	11.7	11.5	11.5	11.8	11.5	11.5
90°	17.1	18.2	18.8	18.8	18.8	18.8	18.8
92.5°	42.7	37.9	34.3	33.9	32.1	32.5	31.6
95°	114.6	90.7	78.1	70.7	66.2	64.4	65.0
97.5°	285.3	223.6	182.4	155.1	141.1	132.8	128.0
100°	450.0	371.8	302.8	255.5	231.0	214.4	204.2
102.5°	617.4	560.3	487.1	435.7	393.8	373.2	359.3
105°	757.3	764.8	745.9	710.6	675.2	650.7	642.7
107.5°	747.1	806.4	834.0	838.4	836.5	831.6	821.0
110°	715.1	788.1	834.9	859.4	870.3	875.4	874.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	677.3	755.3	808.9	843.0	861.1	870.8	873.9
115°	625.6	700.3	759.1	799.5	825.8	840.6	845.7
117.5°	583.6	651.4	706.5	747.8	775.5	791.1	795.4
120°	561.7	622.2	674.1	714.0	740.8	757.3	763.0
122.5°	543.5	600.7	647.6	683.4	709.8	724.5	729.3
125°	519.5	569.7	612.5	645.6	667.2	681.5	686.1
127.5°	496.3	543.6	583.1	611.9	632.2	644.5	648.2
130°	480.8	525.8	563.4	591.4	610.8	622.2	626.7
132.5°	466.2	507.6	542.9	570.4	589.8	600.3	604.4
135°	443.1	480.8	512.7	537.2	556.0	566.3	568.6
137.5°	424.8	454.6	482.5	504.8	521.0	530.0	533.4
140°	412.9	439.1	464.2	482.5	497.3	505.8	509.3
142.5°	402.4	425.0	446.0	463.3	476.8	484.4	485.1
145°	388.9	406.6	423.2	436.8	446.5	452.2	453.9
147.5°	378.0	391.8	403.9	415.2	422.9	426.8	427.8
150°	370.7	382.7	392.9	401.5	408.3	411.7	412.3
152.5°	364.8	374.9	383.8	390.5	396.5	399.0	399.1
155°	355.3	363.8	370.1	376.4	380.4	382.7	381.5
157.5°	345.7	352.9	357.8	362.2	365.6	366.6	366.6
160°	339.3	345.6	349.6	353.6	356.4	357.0	357.0
162.5°	333.4	338.8	341.8	345.8	347.8	348.3	347.9
165°	324.5	328.5	330.8	333.0	335.3	335.3	334.8
167.5°	316.4	319.1	321.2	322.2	323.5	323.4	322.7
170°	311.4	313.7	314.8	315.4	317.1	316.5	315.4
172.5°	306.8	308.6	309.3	309.9	310.7	310.1	309.4
175°	301.7	302.3	302.8	302.8	303.4	302.8	301.7
177.5°	297.9	298.4	298.4	298.4	298.4	297.9	297.0
180°	296.5	296.5	296.5	296.5	296.5	296.5	296.5

(END OF REPORT)