

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: P331286

Luminaire Tested: **S122DIP-S485D330U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331286
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S485D330U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3316.2 lumens
Efficiency: N/A
Efficacy: 120.6 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: Semi-Direct

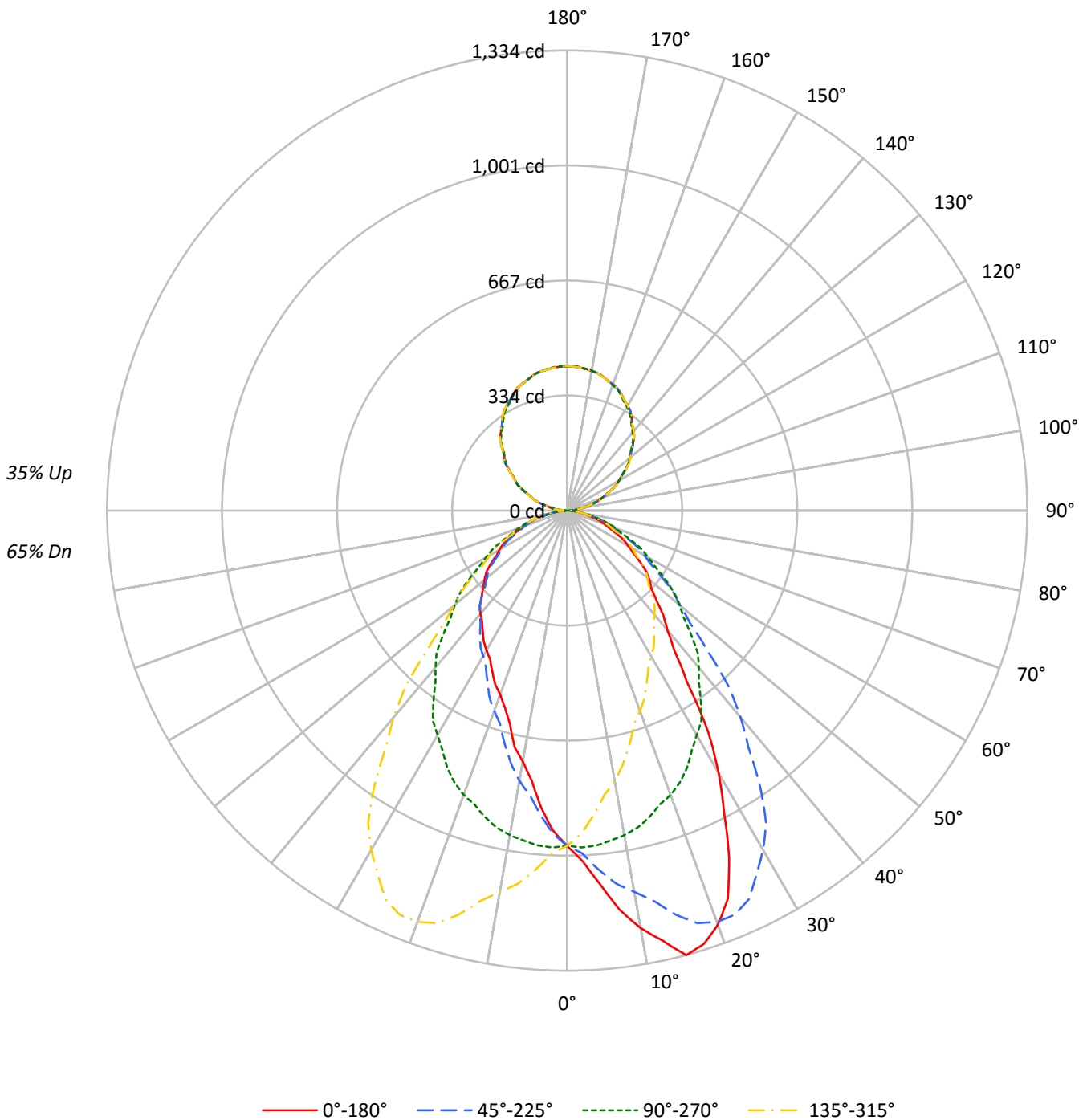
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	70	70	70	65
1	102	97	94	90	95	92	89	86	81	79	77	71	70	68	63	61	60	56
2	93	86	80	75	87	81	76	71	72	68	64	64	60	58	56	54	52	48
3	85	76	69	63	80	72	66	60	64	59	55	57	53	50	50	47	45	41
4	78	68	60	54	74	64	57	52	57	52	47	51	47	43	45	42	39	36
5	72	61	53	47	68	58	50	45	52	46	41	46	42	38	41	37	34	32
6	67	55	47	41	63	52	45	40	47	41	37	42	37	34	37	34	31	28
7	62	50	42	36	58	47	40	35	43	37	33	38	34	30	34	30	27	25
8	58	46	38	33	54	43	36	31	39	33	29	35	31	27	32	28	25	23
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	29	25	23	21
10	51	39	31	27	48	37	30	26	33	28	24	30	26	22	27	23	21	19

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	2.8
10°-20°	269.0	8.1
20°-30°	390.5	11.8
30°-40°	412.0	12.4
40°-50°	364.8	11.0
50°-60°	291.1	8.8
60°-70°	197.9	6.0
70°-80°	101.5	3.1
80°-90°	26.1	0.8
90°-100°	26.5	0.8
100°-110°	82.4	2.5
110°-120°	140.8	4.2
120°-130°	185.2	5.6
130°-140°	207.9	6.3
140°-150°	203.8	6.1
150°-160°	171.0	5.2
160°-170°	113.4	3.4
170°-180°	39.6	1.2
0°-30°	752.0	22.7
0°-40°	1164.1	35.1
0°-60°	1820.1	54.9
0°-90°	2145.5	64.7
90°-120°	249.8	7.5
90°-150°	846.7	25.5
90°-180°	1171.0	35.3
0°-180°	3316.2	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	22
90°	12	0	12	0	12	6
95°	22	18	22	18	22	24
105°	78	76	78	76	78	82
115°	141	141	141	141	141	140
125°	206	206	206	206	206	184
135°	269	266	269	266	269	207
145°	326	323	326	323	326	204
155°	372	369	372	369	372	171
165°	402	402	402	402	402	113
175°	416	418	416	418	416	40
180°	419	419	419	419	419	



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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°	10.2	10.2	10.4	10.1	10.1	10.4	10.4	10.2	10.5	10.8	10.8
90°	12.0	11.9	11.9	11.8	11.7	11.7	11.9	12.1	12.2	12.4	10.6
92.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.3	11.3	11.3	11.2	10.8
95°	21.9	22.1	22.2	22.4	22.5	22.6	22.6	22.6	22.6	22.6	22.5
97.5°	37.9	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	37.7
100°	48.4	48.5	48.6	48.6	48.7	48.8	48.8	48.8	48.8	48.8	48.5
102.5°	60.3	60.4	60.4	60.5	60.6	60.6	60.5	60.5	60.4	60.3	60.0
105°	78.4	78.4	78.4	78.4	78.4	78.4	78.2	78.0	77.9	77.7	77.6
107.5°	95.5	95.9	96.3	96.6	97.0	97.1	97.1	97.0	96.9	96.9	96.9
110°	108.8	109.1	109.3	109.5	109.8	109.9	109.9	109.9	109.9	109.9	109.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	121.5	121.7	121.9	122.1	122.2	122.4	122.6	122.8	123.0	123.2	123.2
115°	141.3	141.6	141.8	142.0	142.3	142.4	142.5	142.6	142.7	142.7	142.9
117.5°	160.2	160.4	160.7	160.9	161.1	161.3	161.5	161.7	161.9	162.1	162.5
120°	173.5	173.7	173.9	174.2	174.4	174.5	174.5	174.5	174.5	174.5	175.2
122.5°	186.5	186.6	186.8	187.0	187.2	187.3	187.5	187.7	187.9	188.1	188.5
125°	206.3	206.4	206.5	206.6	206.6	206.8	207.0	207.3	207.5	207.7	208.0
127.5°	224.4	224.7	224.9	225.2	225.4	225.7	226.0	226.3	226.5	226.8	227.1
130°	237.4	237.7	238.0	238.4	238.7	238.9	239.1	239.2	239.4	239.5	239.7
132.5°	249.9	250.1	250.4	250.6	250.9	251.2	251.5	251.8	252.2	252.5	252.5
135°	269.2	269.5	269.7	269.9	270.2	270.3	270.4	270.5	270.5	270.6	270.5
137.5°	286.7	287.1	287.4	287.7	288.0	288.2	288.2	288.3	288.4	288.4	288.2
140°	298.9	299.2	299.5	299.8	300.1	300.3	300.3	300.3	300.3	300.3	299.9
142.5°	309.9	310.2	310.5	310.9	311.2	311.3	311.2	311.2	311.1	311.0	310.8
145°	326.4	326.8	327.1	327.4	327.7	327.8	327.7	327.7	327.6	327.5	327.0
147.5°	341.2	341.5	341.8	342.1	342.4	342.5	342.3	342.1	342.0	341.8	341.5
150°	350.8	351.1	351.3	351.5	351.8	351.8	351.5	351.3	351.1	350.8	350.5
152.5°	359.9	360.2	360.5	360.8	361.1	361.1	360.8	360.5	360.2	359.9	359.5
155°	372.0	372.3	372.5	372.7	373.0	372.9	372.5	372.1	371.7	371.3	371.1
157.5°	382.5	382.9	383.2	383.6	384.0	383.9	383.4	382.8	382.3	381.8	381.6
160°	389.0	389.3	389.6	389.9	390.2	390.2	389.7	389.2	388.7	388.3	388.2
162.5°	394.6	395.0	395.4	395.8	396.1	396.1	395.5	395.0	394.5	393.9	393.9
165°	402.1	402.4	402.8	403.2	403.6	403.5	403.0	402.4	401.9	401.3	401.3
167.5°	408.1	408.5	408.9	409.4	409.8	409.7	409.1	408.6	408.0	407.5	407.5
170°	411.2	411.7	412.2	412.7	413.1	413.1	412.5	412.0	411.4	410.9	411.0
172.5°	413.8	414.3	414.7	415.2	415.7	415.6	415.1	414.5	414.0	413.4	413.5
175°	416.5	417.0	417.5	418.0	418.4	418.4	417.8	417.3	416.7	416.2	416.3
177.5°	417.8	418.2	418.6	418.9	419.3	419.3	418.9	418.6	418.2	417.8	417.9
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



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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°	10.7	10.4	10.1	10.4	9.3	9.1	7.7	6.6	6.5	6.4	6.0
90°	8.9	7.2	5.5	4.1	3.2	2.2	1.3	0.4	1.3	2.2	3.2
92.5°	10.4	10.0	9.6	9.1	8.4	7.7	7.0	6.3	7.0	7.7	8.4
95°	22.3	22.1	22.0	21.5	20.7	19.9	19.2	18.4	19.2	19.9	20.7
97.5°	37.4	37.1	36.8	36.3	35.6	34.9	34.3	33.6	34.3	34.9	35.6
100°	48.3	48.0	47.8	47.4	46.8	46.1	45.5	44.9	45.5	46.1	46.8
102.5°	59.7	59.4	59.2	58.7	58.2	57.7	57.2	56.7	57.2	57.7	58.2
105°	77.4	77.3	77.1	76.9	76.7	76.4	76.2	76.0	76.2	76.4	76.7
107.5°	96.9	96.9	96.9	96.7	96.4	96.0	95.7	95.3	95.7	96.0	96.4
110°	109.9	109.9	109.9	109.6	109.2	108.7	108.2	107.8	108.2	108.7	109.2



TEST NUMBER: P331286

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	123.3	123.3	123.4	123.2	122.7	122.3	121.8	121.3	121.8	122.3	122.7
115°	143.0	143.2	143.4	143.2	142.7	142.3	141.8	141.3	141.8	142.3	142.7
117.5°	163.0	163.4	163.9	163.8	163.1	162.5	161.9	161.2	161.9	162.5	163.1
120°	175.8	176.4	177.0	177.0	176.4	175.8	175.2	174.5	175.2	175.8	176.4
122.5°	189.0	189.4	189.9	189.7	188.9	188.2	187.4	186.7	187.4	188.2	188.9
125°	208.2	208.4	208.7	208.4	207.7	207.0	206.3	205.6	206.3	207.0	207.7
127.5°	227.4	227.7	227.9	227.6	226.7	225.9	225.0	224.1	225.0	225.9	226.7
130°	239.9	240.0	240.2	239.7	238.7	237.7	236.7	235.7	236.7	237.7	238.7
132.5°	252.5	252.4	252.4	252.0	251.1	250.3	249.5	248.7	249.5	250.3	251.1
135°	270.3	270.2	270.0	269.5	268.6	267.8	266.9	266.0	266.9	267.8	268.6
137.5°	288.0	287.8	287.6	287.2	286.5	285.7	285.0	284.3	285.0	285.7	286.5
140°	299.5	299.1	298.7	298.2	297.5	296.8	296.1	295.4	296.1	296.8	297.5
142.5°	310.5	310.2	310.0	309.5	308.8	308.1	307.4	306.7	307.4	308.1	308.8
145°	326.6	326.1	325.6	325.1	324.6	324.0	323.5	322.9	323.5	324.0	324.6
147.5°	341.2	340.8	340.5	340.0	339.4	338.7	338.1	337.4	338.1	338.7	339.4
150°	350.2	349.9	349.6	349.2	348.7	348.2	347.8	347.3	347.8	348.2	348.7
152.5°	359.1	358.7	358.4	357.9	357.5	357.0	356.5	356.1	356.5	357.0	357.5
155°	370.8	370.6	370.4	370.1	369.9	369.7	369.4	369.2	369.4	369.7	369.9
157.5°	381.5	381.4	381.2	381.1	380.9	380.7	380.6	380.4	380.6	380.7	380.9
160°	388.1	388.0	388.0	387.8	387.7	387.5	387.4	387.2	387.4	387.5	387.7
162.5°	393.8	393.7	393.6	393.6	393.5	393.5	393.5	393.4	393.5	393.5	393.5
165°	401.3	401.3	401.3	401.4	401.5	401.5	401.6	401.7	401.6	401.5	401.5
167.5°	407.5	407.5	407.6	407.7	407.9	408.2	408.4	408.6	408.4	408.2	407.9
170°	411.0	411.1	411.2	411.4	411.6	411.8	412.1	412.3	412.1	411.8	411.6
172.5°	413.6	413.7	413.7	413.9	414.1	414.4	414.6	414.8	414.6	414.4	414.1
175°	416.5	416.7	416.8	417.0	417.2	417.5	417.7	418.0	417.7	417.5	417.2
177.5°	418.1	418.2	418.3	418.5	418.7	418.8	419.0	419.2	419.0	418.8	418.7
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331286

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A1

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°	5.9	5.9	5.9	6.3	6.3	6.4	6.0	6.0	6.0	5.3	5.3
90°	4.1	5.5	7.2	8.9	10.6	12.4	12.2	12.1	11.9	11.7	11.7
92.5°	9.1	9.6	10.0	10.4	10.8	11.2	11.3	11.3	11.3	11.4	11.4
95°	21.5	22.0	22.1	22.3	22.5	22.6	22.6	22.6	22.6	22.6	22.5
97.5°	36.3	36.8	37.1	37.4	37.7	38.0	38.0	38.0	38.0	38.0	38.0
100°	47.4	47.8	48.0	48.3	48.5	48.8	48.8	48.8	48.8	48.8	48.7
102.5°	58.7	59.2	59.4	59.7	60.0	60.3	60.4	60.5	60.5	60.6	60.6
105°	76.9	77.1	77.3	77.4	77.6	77.7	77.9	78.0	78.2	78.4	78.4
107.5°	96.7	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.1	97.1	97.0
110°	109.6	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.8



TEST NUMBER: P331286

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	123.2	123.4	123.3	123.3	123.2	123.2	123.0	122.8	122.6	122.4	122.2
115°	143.2	143.4	143.2	143.0	142.9	142.7	142.7	142.6	142.5	142.4	142.3
117.5°	163.8	163.9	163.4	163.0	162.5	162.1	161.9	161.7	161.5	161.3	161.1
120°	177.0	177.0	176.4	175.8	175.2	174.5	174.5	174.5	174.5	174.5	174.4
122.5°	189.7	189.9	189.4	189.0	188.5	188.1	187.9	187.7	187.5	187.3	187.2
125°	208.4	208.7	208.4	208.2	208.0	207.7	207.5	207.3	207.0	206.8	206.6
127.5°	227.6	227.9	227.7	227.4	227.1	226.8	226.5	226.3	226.0	225.7	225.4
130°	239.7	240.2	240.0	239.9	239.7	239.5	239.4	239.2	239.1	238.9	238.7
132.5°	252.0	252.4	252.4	252.5	252.5	252.5	252.2	251.8	251.5	251.2	250.9
135°	269.5	270.0	270.2	270.3	270.5	270.6	270.5	270.5	270.4	270.3	270.2
137.5°	287.2	287.6	287.8	288.0	288.2	288.4	288.4	288.3	288.2	288.2	288.0
140°	298.2	298.7	299.1	299.5	299.9	300.3	300.3	300.3	300.3	300.3	300.1
142.5°	309.5	310.0	310.2	310.5	310.8	311.0	311.1	311.2	311.2	311.3	311.2
145°	325.1	325.6	326.1	326.6	327.0	327.5	327.6	327.7	327.7	327.8	327.7
147.5°	340.0	340.5	340.8	341.2	341.5	341.8	342.0	342.1	342.3	342.5	342.4
150°	349.2	349.6	349.9	350.2	350.5	350.8	351.1	351.3	351.5	351.8	351.8
152.5°	357.9	358.4	358.7	359.1	359.5	359.9	360.2	360.5	360.8	361.1	361.1
155°	370.1	370.4	370.6	370.8	371.1	371.3	371.7	372.1	372.5	372.9	373.0
157.5°	381.1	381.2	381.4	381.5	381.6	381.8	382.3	382.8	383.4	383.9	384.0
160°	387.8	388.0	388.0	388.1	388.2	388.3	388.7	389.2	389.7	390.2	390.2
162.5°	393.6	393.6	393.7	393.8	393.9	393.9	394.5	395.0	395.5	396.1	396.1
165°	401.4	401.3	401.3	401.3	401.3	401.3	401.9	402.4	403.0	403.5	403.6
167.5°	407.7	407.6	407.5	407.5	407.5	407.5	408.0	408.6	409.1	409.7	409.8
170°	411.4	411.2	411.1	411.0	411.0	410.9	411.4	412.0	412.5	413.1	413.1
172.5°	413.9	413.7	413.7	413.6	413.5	413.4	414.0	414.5	415.1	415.6	415.7
175°	417.0	416.8	416.7	416.5	416.3	416.2	416.7	417.3	417.8	418.4	418.4
177.5°	418.5	418.3	418.2	418.1	417.9	417.8	418.2	418.6	418.9	419.3	419.3
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331286

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A1

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°	5.3	5.1	5.1	4.8	5.1	5.1	5.3	5.3	5.3	6.0	6.0
90°	11.8	11.9	11.9	12.0	11.9	11.9	11.8	11.7	11.7	11.9	12.1
92.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.3	11.3
95°	22.4	22.2	22.1	21.9	22.1	22.2	22.4	22.5	22.6	22.6	22.6
97.5°	38.0	38.0	38.0	37.9	38.0	38.0	38.0	38.0	38.0	38.0	38.0
100°	48.6	48.6	48.5	48.4	48.5	48.6	48.6	48.7	48.8	48.8	48.8
102.5°	60.5	60.4	60.4	60.3	60.4	60.4	60.5	60.6	60.6	60.5	60.5
105°	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.2	78.0
107.5°	96.6	96.3	95.9	95.5	95.9	96.3	96.6	97.0	97.1	97.1	97.0
110°	109.5	109.3	109.1	108.8	109.1	109.3	109.5	109.8	109.9	109.9	109.9



TEST NUMBER: P331286

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	122.1	121.9	121.7	121.5	121.7	121.9	122.1	122.2	122.4	122.6	122.8
115°	142.0	141.8	141.6	141.3	141.6	141.8	142.0	142.3	142.4	142.5	142.6
117.5°	160.9	160.7	160.4	160.2	160.4	160.7	160.9	161.1	161.3	161.5	161.7
120°	174.2	173.9	173.7	173.5	173.7	173.9	174.2	174.4	174.5	174.5	174.5
122.5°	187.0	186.8	186.6	186.5	186.6	186.8	187.0	187.2	187.3	187.5	187.7
125°	206.6	206.5	206.4	206.3	206.4	206.5	206.6	206.6	206.8	207.0	207.3
127.5°	225.2	224.9	224.7	224.4	224.7	224.9	225.2	225.4	225.7	226.0	226.3
130°	238.4	238.0	237.7	237.4	237.7	238.0	238.4	238.7	238.9	239.1	239.2
132.5°	250.6	250.4	250.1	249.9	250.1	250.4	250.6	250.9	251.2	251.5	251.8
135°	269.9	269.7	269.5	269.2	269.5	269.7	269.9	270.2	270.3	270.4	270.5
137.5°	287.7	287.4	287.1	286.7	287.1	287.4	287.7	288.0	288.2	288.2	288.3
140°	299.8	299.5	299.2	298.9	299.2	299.5	299.8	300.1	300.3	300.3	300.3
142.5°	310.9	310.5	310.2	309.9	310.2	310.5	310.9	311.2	311.3	311.2	311.2
145°	327.4	327.1	326.8	326.4	326.8	327.1	327.4	327.7	327.8	327.7	327.7
147.5°	342.1	341.8	341.5	341.2	341.5	341.8	342.1	342.4	342.5	342.3	342.1
150°	351.5	351.3	351.1	350.8	351.1	351.3	351.5	351.8	351.8	351.5	351.3
152.5°	360.8	360.5	360.2	359.9	360.2	360.5	360.8	361.1	361.1	360.8	360.5
155°	372.7	372.5	372.3	372.0	372.3	372.5	372.7	373.0	372.9	372.5	372.1
157.5°	383.6	383.2	382.9	382.5	382.9	383.2	383.6	384.0	383.9	383.4	382.8
160°	389.9	389.6	389.3	389.0	389.3	389.6	389.9	390.2	390.2	389.7	389.2
162.5°	395.8	395.4	395.0	394.6	395.0	395.4	395.8	396.1	396.1	395.5	395.0
165°	403.2	402.8	402.4	402.1	402.4	402.8	403.2	403.6	403.5	403.0	402.4
167.5°	409.4	408.9	408.5	408.1	408.5	408.9	409.4	409.8	409.7	409.1	408.6
170°	412.7	412.2	411.7	411.2	411.7	412.2	412.7	413.1	413.1	412.5	412.0
172.5°	415.2	414.7	414.3	413.8	414.3	414.7	415.2	415.7	415.6	415.1	414.5
175°	418.0	417.5	417.0	416.5	417.0	417.5	418.0	418.4	418.4	417.8	417.3
177.5°	418.9	418.6	418.2	417.8	418.2	418.6	418.9	419.3	419.3	418.9	418.6
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331286

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A1

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°	6.0	6.4	6.3	6.3	5.9	5.9	5.9	6.0	6.4	6.5	6.6
90°	12.2	12.4	10.6	8.9	7.2	5.5	4.1	3.2	2.2	1.3	0.4
92.5°	11.3	11.2	10.8	10.4	10.0	9.6	9.1	8.4	7.7	7.0	6.3
95°	22.6	22.6	22.5	22.3	22.1	22.0	21.5	20.7	19.9	19.2	18.4
97.5°	38.0	38.0	37.7	37.4	37.1	36.8	36.3	35.6	34.9	34.3	33.6
100°	48.8	48.8	48.5	48.3	48.0	47.8	47.4	46.8	46.1	45.5	44.9
102.5°	60.4	60.3	60.0	59.7	59.4	59.2	58.7	58.2	57.7	57.2	56.7
105°	77.9	77.7	77.6	77.4	77.3	77.1	76.9	76.7	76.4	76.2	76.0
107.5°	96.9	96.9	96.9	96.9	96.9	96.9	96.7	96.4	96.0	95.7	95.3
110°	109.9	109.9	109.9	109.9	109.9	109.9	109.6	109.2	108.7	108.2	107.8



TEST NUMBER: P331286

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	123.0	123.2	123.2	123.3	123.3	123.4	123.2	122.7	122.3	121.8	121.3
115°	142.7	142.7	142.9	143.0	143.2	143.4	143.2	142.7	142.3	141.8	141.3
117.5°	161.9	162.1	162.5	163.0	163.4	163.9	163.8	163.1	162.5	161.9	161.2
120°	174.5	174.5	175.2	175.8	176.4	177.0	177.0	176.4	175.8	175.2	174.5
122.5°	187.9	188.1	188.5	189.0	189.4	189.9	189.7	188.9	188.2	187.4	186.7
125°	207.5	207.7	208.0	208.2	208.4	208.7	208.4	207.7	207.0	206.3	205.6
127.5°	226.5	226.8	227.1	227.4	227.7	227.9	227.6	226.7	225.9	225.0	224.1
130°	239.4	239.5	239.7	239.9	240.0	240.2	239.7	238.7	237.7	236.7	235.7
132.5°	252.2	252.5	252.5	252.5	252.4	252.4	252.0	251.1	250.3	249.5	248.7
135°	270.5	270.6	270.5	270.3	270.2	270.0	269.5	268.6	267.8	266.9	266.0
137.5°	288.4	288.4	288.2	288.0	287.8	287.6	287.2	286.5	285.7	285.0	284.3
140°	300.3	300.3	299.9	299.5	299.1	298.7	298.2	297.5	296.8	296.1	295.4
142.5°	311.1	311.0	310.8	310.5	310.2	310.0	309.5	308.8	308.1	307.4	306.7
145°	327.6	327.5	327.0	326.6	326.1	325.6	325.1	324.6	324.0	323.5	322.9
147.5°	342.0	341.8	341.5	341.2	340.8	340.5	340.0	339.4	338.7	338.1	337.4
150°	351.1	350.8	350.5	350.2	349.9	349.6	349.2	348.7	348.2	347.8	347.3
152.5°	360.2	359.9	359.5	359.1	358.7	358.4	357.9	357.5	357.0	356.5	356.1
155°	371.7	371.3	371.1	370.8	370.6	370.4	370.1	369.9	369.7	369.4	369.2
157.5°	382.3	381.8	381.6	381.5	381.4	381.2	381.1	380.9	380.7	380.6	380.4
160°	388.7	388.3	388.2	388.1	388.0	388.0	387.8	387.7	387.5	387.4	387.2
162.5°	394.5	393.9	393.9	393.8	393.7	393.6	393.6	393.5	393.5	393.5	393.4
165°	401.9	401.3	401.3	401.3	401.3	401.3	401.4	401.5	401.5	401.6	401.7
167.5°	408.0	407.5	407.5	407.5	407.5	407.6	407.7	407.9	408.2	408.4	408.6
170°	411.4	410.9	411.0	411.0	411.1	411.2	411.4	411.6	411.8	412.1	412.3
172.5°	414.0	413.4	413.5	413.6	413.7	413.7	413.9	414.1	414.4	414.6	414.8
175°	416.7	416.2	416.3	416.5	416.7	416.8	417.0	417.2	417.5	417.7	418.0
177.5°	418.2	417.8	417.9	418.1	418.2	418.3	418.5	418.7	418.8	419.0	419.2
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331286

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A1

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°	7.7	9.1	9.3	10.4	10.1	10.4	10.7	10.8	10.8	10.5	10.2
90°	1.3	2.2	3.2	4.1	5.5	7.2	8.9	10.6	12.4	12.2	12.1
92.5°	7.0	7.7	8.4	9.1	9.6	10.0	10.4	10.8	11.2	11.3	11.3
95°	19.2	19.9	20.7	21.5	22.0	22.1	22.3	22.5	22.6	22.6	22.6
97.5°	34.3	34.9	35.6	36.3	36.8	37.1	37.4	37.7	38.0	38.0	38.0
100°	45.5	46.1	46.8	47.4	47.8	48.0	48.3	48.5	48.8	48.8	48.8
102.5°	57.2	57.7	58.2	58.7	59.2	59.4	59.7	60.0	60.3	60.4	60.5
105°	76.2	76.4	76.7	76.9	77.1	77.3	77.4	77.6	77.7	77.9	78.0
107.5°	95.7	96.0	96.4	96.7	96.9	96.9	96.9	96.9	96.9	96.9	97.0
110°	108.2	108.7	109.2	109.6	109.9	109.9	109.9	109.9	109.9	109.9	109.9



TEST NUMBER: P331286

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	121.8	122.3	122.7	123.2	123.4	123.3	123.3	123.2	123.2	123.0	122.8
115°	141.8	142.3	142.7	143.2	143.4	143.2	143.0	142.9	142.7	142.7	142.6
117.5°	161.9	162.5	163.1	163.8	163.9	163.4	163.0	162.5	162.1	161.9	161.7
120°	175.2	175.8	176.4	177.0	177.0	176.4	175.8	175.2	174.5	174.5	174.5
122.5°	187.4	188.2	188.9	189.7	189.9	189.4	189.0	188.5	188.1	187.9	187.7
125°	206.3	207.0	207.7	208.4	208.7	208.4	208.2	208.0	207.7	207.5	207.3
127.5°	225.0	225.9	226.7	227.6	227.9	227.7	227.4	227.1	226.8	226.5	226.3
130°	236.7	237.7	238.7	239.7	240.2	240.0	239.9	239.7	239.5	239.4	239.2
132.5°	249.5	250.3	251.1	252.0	252.4	252.4	252.5	252.5	252.5	252.2	251.8
135°	266.9	267.8	268.6	269.5	270.0	270.2	270.3	270.5	270.6	270.5	270.5
137.5°	285.0	285.7	286.5	287.2	287.6	287.8	288.0	288.2	288.4	288.4	288.3
140°	296.1	296.8	297.5	298.2	298.7	299.1	299.5	299.9	300.3	300.3	300.3
142.5°	307.4	308.1	308.8	309.5	310.0	310.2	310.5	310.8	311.0	311.1	311.2
145°	323.5	324.0	324.6	325.1	325.6	326.1	326.6	327.0	327.5	327.6	327.7
147.5°	338.1	338.7	339.4	340.0	340.5	340.8	341.2	341.5	341.8	342.0	342.1
150°	347.8	348.2	348.7	349.2	349.6	349.9	350.2	350.5	350.8	351.1	351.3
152.5°	356.5	357.0	357.5	357.9	358.4	358.7	359.1	359.5	359.9	360.2	360.5
155°	369.4	369.7	369.9	370.1	370.4	370.6	370.8	371.1	371.3	371.7	372.1
157.5°	380.6	380.7	380.9	381.1	381.2	381.4	381.5	381.6	381.8	382.3	382.8
160°	387.4	387.5	387.7	387.8	388.0	388.0	388.1	388.2	388.3	388.7	389.2
162.5°	393.5	393.5	393.5	393.6	393.6	393.7	393.8	393.9	393.9	394.5	395.0
165°	401.6	401.5	401.5	401.4	401.3	401.3	401.3	401.3	401.3	401.9	402.4
167.5°	408.4	408.2	407.9	407.7	407.6	407.5	407.5	407.5	407.5	408.0	408.6
170°	412.1	411.8	411.6	411.4	411.2	411.1	411.0	411.0	410.9	411.4	412.0
172.5°	414.6	414.4	414.1	413.9	413.7	413.7	413.6	413.5	413.4	414.0	414.5
175°	417.7	417.5	417.2	417.0	416.8	416.7	416.5	416.3	416.2	416.7	417.3
177.5°	419.0	418.8	418.7	418.5	418.3	418.2	418.1	417.9	417.8	418.2	418.6
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



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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°	10.4	10.4	10.1	10.1	10.4	10.2	10.2
90°	11.9	11.7	11.7	11.8	11.9	11.9	12.0
92.5°	11.3	11.4	11.4	11.4	11.4	11.4	11.4
95°	22.6	22.6	22.5	22.4	22.2	22.1	21.9
97.5°	38.0	38.0	38.0	38.0	38.0	38.0	37.9
100°	48.8	48.8	48.7	48.6	48.6	48.5	48.4
102.5°	60.5	60.6	60.6	60.5	60.4	60.4	60.3
105°	78.2	78.4	78.4	78.4	78.4	78.4	78.4
107.5°	97.1	97.1	97.0	96.6	96.3	95.9	95.5
110°	109.9	109.9	109.8	109.5	109.3	109.1	108.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	122.6	122.4	122.2	122.1	121.9	121.7	121.5
115°	142.5	142.4	142.3	142.0	141.8	141.6	141.3
117.5°	161.5	161.3	161.1	160.9	160.7	160.4	160.2
120°	174.5	174.5	174.4	174.2	173.9	173.7	173.5
122.5°	187.5	187.3	187.2	187.0	186.8	186.6	186.5
125°	207.0	206.8	206.6	206.6	206.5	206.4	206.3
127.5°	226.0	225.7	225.4	225.2	224.9	224.7	224.4
130°	239.1	238.9	238.7	238.4	238.0	237.7	237.4
132.5°	251.5	251.2	250.9	250.6	250.4	250.1	249.9
135°	270.4	270.3	270.2	269.9	269.7	269.5	269.2
137.5°	288.2	288.2	288.0	287.7	287.4	287.1	286.7
140°	300.3	300.3	300.1	299.8	299.5	299.2	298.9
142.5°	311.2	311.3	311.2	310.9	310.5	310.2	309.9
145°	327.7	327.8	327.7	327.4	327.1	326.8	326.4
147.5°	342.3	342.5	342.4	342.1	341.8	341.5	341.2
150°	351.5	351.8	351.8	351.5	351.3	351.1	350.8
152.5°	360.8	361.1	361.1	360.8	360.5	360.2	359.9
155°	372.5	372.9	373.0	372.7	372.5	372.3	372.0
157.5°	383.4	383.9	384.0	383.6	383.2	382.9	382.5
160°	389.7	390.2	390.2	389.9	389.6	389.3	389.0
162.5°	395.5	396.1	396.1	395.8	395.4	395.0	394.6
165°	403.0	403.5	403.6	403.2	402.8	402.4	402.1
167.5°	409.1	409.7	409.8	409.4	408.9	408.5	408.1
170°	412.5	413.1	413.1	412.7	412.2	411.7	411.2
172.5°	415.1	415.6	415.7	415.2	414.7	414.3	413.8
175°	417.8	418.4	418.4	418.0	417.5	417.0	416.5
177.5°	418.9	419.3	419.3	418.9	418.6	418.2	417.8
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7

(END OF REPORT)