

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: P331501

Luminaire Tested: **S122DIW-S485D710U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331501
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S485D710U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4981.5 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

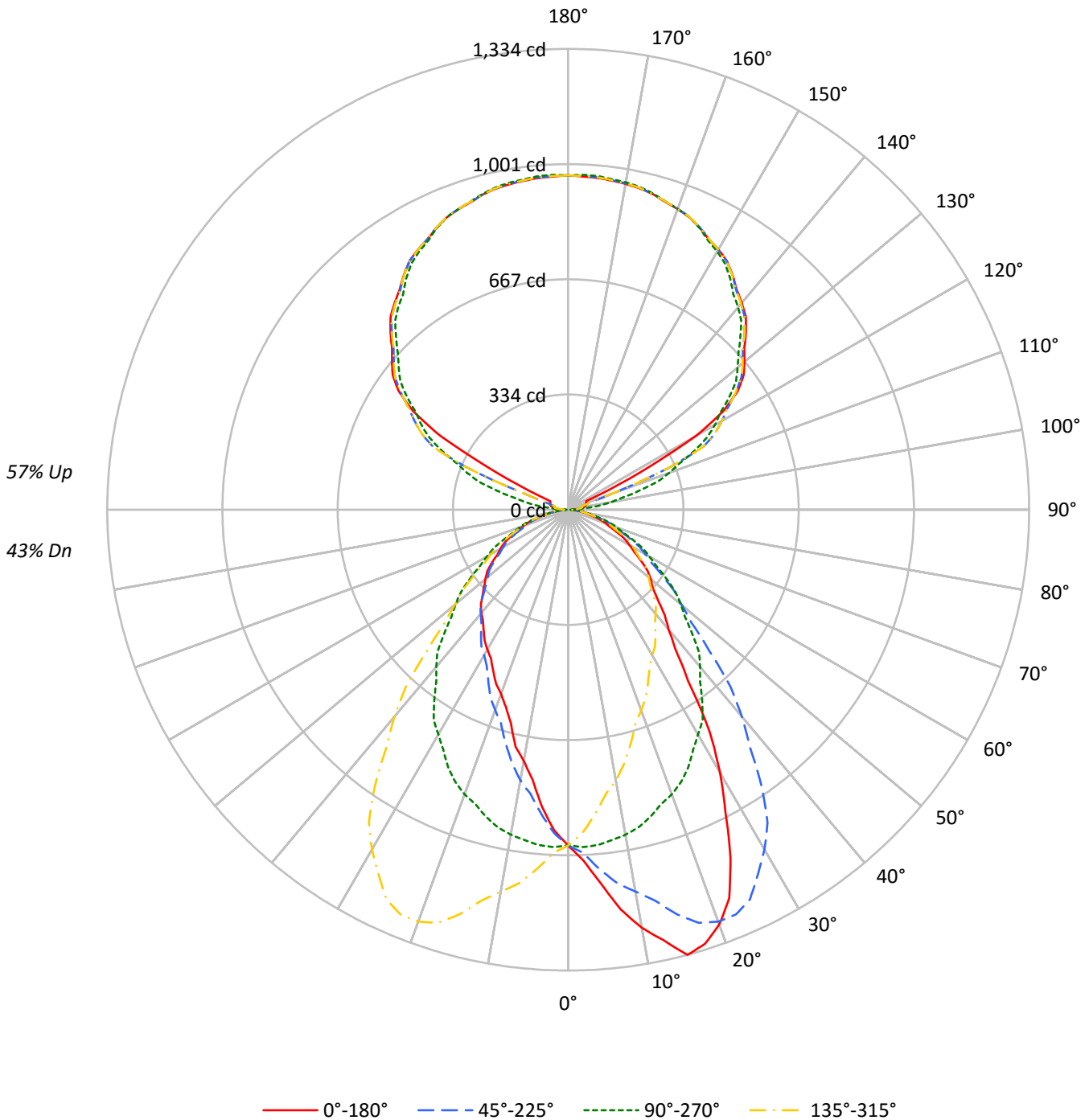
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	97	93	89	85	88	85	82	79	70	68	66	57	55	54	45	44	43	37
2	88	81	75	70	81	75	70	65	62	58	55	50	48	46	40	38	37	32
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	33	32	27
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	26	24	21
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	27	24	22	19
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17
8	54	42	35	29	49	39	32	28	33	28	24	28	24	21	22	20	17	15
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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	1.9
10°-20°	269.0	5.4
20°-30°	390.5	7.8
30°-40°	412.0	8.3
40°-50°	364.8	7.3
50°-60°	291.1	5.8
60°-70°	197.9	4.0
70°-80°	101.5	2.0
80°-90°	26.8	0.5
90°-100°	32.3	0.6
100°-110°	118.3	2.4
110°-120°	316.3	6.4
120°-130°	522.2	10.5
130°-140°	555.4	11.1
140°-150°	516.2	10.4
150°-160°	415.0	8.3
160°-170°	267.4	5.4
170°-180°	92.1	1.8
0°-30°	752.0	15.1
0°-40°	1164.1	23.4
0°-60°	1820.1	36.5
0°-90°	2146.2	43.1
90°-120°	467.0	9.4
90°-150°	2060.7	41.4
90°-180°	2835.0	56.9
0°-180°	4981.5	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	9
95°	30	46	30	46	30	28
105°	53	213	53	213	53	55
115°	57	402	57	402	57	144
125°	598	569	598	569	598	518
135°	727	704	727	704	727	561
145°	830	817	830	817	830	519
155°	900	900	900	900	900	415
165°	946	948	946	948	946	267
175°	964	970	964	970	964	92
180°	968	968	968	968	968	



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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	11.7	11.4	11.3	11.5	11.3	10.9	11.0	11.2	11.2
90°	18.9	18.6	18.3	18.0	17.7	17.1	16.3	15.6	14.8	14.0	12.8
92.5°	18.9	18.7	18.5	18.3	18.2	17.9	17.5	17.1	16.6	16.2	15.6
95°	30.1	30.3	30.4	30.6	30.7	30.4	29.6	28.9	28.1	27.3	26.2
97.5°	40.2	40.0	39.8	39.6	39.4	39.0	38.4	37.8	37.2	36.5	34.0
100°	46.9	46.6	46.3	46.0	45.7	44.9	43.6	42.4	41.1	39.9	37.3
102.5°	50.3	49.8	49.4	49.0	48.5	47.5	45.9	44.3	42.6	41.0	63.1
105°	53.2	52.6	52.0	51.3	50.7	49.5	47.8	46.1	44.4	42.7	85.2
107.5°	54.7	54.1	53.5	52.9	52.3	52.8	54.6	56.3	58.0	59.8	110.7
110°	55.3	54.7	54.1	53.4	52.8	60.3	75.8	91.4	107.0	122.5	167.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	55.9	55.4	54.9	54.4	53.9	82.0	138.8	195.5	252.3	309.0	320.1
115°	57.4	68.6	79.8	91.0	102.2	143.8	215.8	287.9	359.9	431.9	428.0
117.5°	234.4	271.2	308.0	344.8	381.6	408.7	426.1	443.6	461.0	478.4	475.7
120°	427.0	448.0	469.0	490.0	511.0	520.6	518.7	516.9	515.0	513.1	510.3
122.5°	532.9	537.0	541.0	545.1	549.2	550.7	549.5	548.4	547.3	546.2	543.1
125°	598.5	598.1	597.6	597.1	596.7	595.9	594.8	593.7	592.6	591.5	588.6
127.5°	640.0	639.9	639.8	639.7	639.6	638.8	637.2	635.6	634.0	632.4	630.2
130°	665.8	665.9	666.1	666.2	666.4	665.6	663.9	662.2	660.5	658.8	657.0
132.5°	691.0	691.1	691.3	691.4	691.6	690.9	689.5	688.0	686.5	685.1	683.4
135°	727.4	727.7	728.0	728.3	728.6	728.0	726.4	724.9	723.3	721.8	720.4
137.5°	760.5	761.1	761.6	762.1	762.7	762.2	760.6	759.1	757.6	756.1	754.5
140°	781.3	782.0	782.8	783.6	784.4	784.1	782.7	781.3	779.9	778.5	776.7
142.5°	801.4	802.2	803.0	803.8	804.5	804.3	803.0	801.7	800.5	799.2	797.2
145°	829.6	830.3	831.1	831.9	832.7	832.5	831.4	830.3	829.3	828.2	825.5
147.5°	854.3	855.0	855.7	856.3	857.0	856.9	856.1	855.3	854.5	853.6	851.0
150°	869.5	870.2	871.0	871.8	872.6	872.5	871.6	870.6	869.7	868.8	866.3
152.5°	882.3	883.4	884.4	885.4	886.5	886.5	885.6	884.6	883.7	882.8	880.4
155°	900.3	901.5	902.8	904.0	905.2	905.4	904.5	903.5	902.6	901.7	899.8
157.5°	916.6	917.9	919.1	920.3	921.5	921.6	920.5	919.5	918.4	917.3	916.0
160°	926.2	927.3	928.3	929.4	930.5	930.6	929.7	928.7	927.8	926.9	925.9
162.5°	934.0	935.3	936.7	938.0	939.4	939.5	938.4	937.4	936.3	935.3	934.5
165°	945.8	946.9	948.0	949.0	950.1	950.1	949.0	948.0	946.9	945.8	945.3
167.5°	953.2	954.6	956.0	957.4	958.8	958.9	957.9	956.8	955.7	954.6	954.2
170°	957.7	959.1	960.5	961.9	963.3	963.4	962.3	961.3	960.2	959.1	958.8
172.5°	961.0	962.4	963.8	965.2	966.6	966.8	965.7	964.6	963.5	962.4	962.1
175°	964.0	965.5	967.1	968.6	970.2	970.4	969.3	968.3	967.2	966.1	965.8
177.5°	965.8	966.9	968.0	969.2	970.3	970.4	969.5	968.7	967.8	966.9	966.8
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



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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°	11.3	11.0	10.8	11.1	9.8	9.5	8.0	6.7	6.8	6.8	6.5
90°	11.5	10.3	9.0	7.5	5.8	4.1	2.4	0.7	2.4	4.1	5.8
92.5°	15.0	14.4	13.8	13.5	13.7	13.8	14.0	14.1	14.0	13.8	13.7
95°	25.1	24.0	22.9	25.0	30.1	35.2	40.4	45.5	40.4	35.2	30.1
97.5°	31.5	29.0	26.5	32.4	46.9	61.4	75.8	90.3	75.8	61.4	46.9
100°	34.6	32.0	29.3	38.7	60.0	81.3	102.6	123.9	102.6	81.3	60.0
102.5°	85.3	107.4	129.5	142.8	147.3	151.8	156.4	160.9	156.4	151.8	147.3
105°	127.6	170.1	212.6	231.5	226.8	222.2	217.5	212.8	217.5	222.2	226.8
107.5°	161.7	212.6	263.5	287.1	283.3	279.6	275.8	272.0	275.8	279.6	283.3
110°	212.4	257.4	302.3	323.2	319.9	316.7	313.4	310.1	313.4	316.7	319.9



TEST NUMBER: P331501

CATALOG NUMBER: S122DIW-S485D710U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	331.2	342.3	353.4	357.5	354.6	351.8	348.9	346.0	348.9	351.8	354.6
115°	424.2	420.3	416.4	413.1	410.5	407.8	405.2	402.5	405.2	407.8	410.5
117.5°	473.1	470.4	467.7	464.9	461.9	459.0	456.0	453.1	456.0	459.0	461.9
120°	507.5	504.7	501.9	499.4	497.0	494.7	492.4	490.0	492.4	494.7	497.0
122.5°	540.1	537.0	534.0	531.2	528.8	526.3	523.9	521.4	523.9	526.3	528.8
125°	585.6	582.7	579.7	577.2	575.2	573.2	571.2	569.1	571.2	573.2	575.2
127.5°	628.0	625.8	623.6	621.4	619.1	616.9	614.6	612.4	614.6	616.9	619.1
130°	655.3	653.6	651.9	649.8	647.3	644.8	642.3	639.8	642.3	644.8	647.3
132.5°	681.6	679.9	678.2	676.3	674.2	672.1	670.0	667.9	670.0	672.1	674.2
135°	719.0	717.6	716.2	714.2	711.7	709.2	706.7	704.3	706.7	709.2	711.7
137.5°	752.9	751.3	749.7	748.0	746.3	744.6	742.8	741.1	742.8	744.6	746.3
140°	775.0	773.3	771.6	770.1	768.9	767.6	766.4	765.2	766.4	767.6	768.9
142.5°	795.3	793.3	791.3	789.8	788.7	787.6	786.4	785.3	786.4	787.6	788.7
145°	822.9	820.2	817.6	816.3	816.5	816.7	816.8	817.0	816.8	816.7	816.5
147.5°	848.4	845.8	843.2	842.2	842.8	843.4	844.0	844.5	844.0	843.4	842.8
150°	863.8	861.3	858.8	858.1	859.2	860.3	861.4	862.5	861.4	860.3	859.2
152.5°	878.0	875.7	873.3	872.7	873.9	875.2	876.4	877.6	876.4	875.2	873.9
155°	897.9	896.1	894.2	894.0	895.4	896.8	898.2	899.6	898.2	896.8	895.4
157.5°	914.7	913.4	912.1	912.1	913.2	914.4	915.6	916.8	915.6	914.4	913.2
160°	925.0	924.1	923.1	923.1	924.1	925.0	925.9	926.9	925.9	925.0	924.1
162.5°	933.7	932.8	932.0	932.1	933.0	934.0	934.9	935.8	934.9	934.0	933.0
165°	944.8	944.4	943.9	944.1	945.1	946.0	946.9	947.9	946.9	946.0	945.1
167.5°	953.7	953.3	952.9	953.1	954.0	955.0	955.9	956.8	955.9	955.0	954.0
170°	958.5	958.1	957.8	958.1	959.1	960.0	960.9	961.9	960.9	960.0	959.1
172.5°	961.8	961.5	961.2	961.5	962.4	963.4	964.3	965.2	964.3	963.4	962.4
175°	965.5	965.1	964.8	965.2	966.3	967.4	968.5	969.6	968.5	967.4	966.3
177.5°	966.7	966.5	966.4	966.8	967.7	968.5	969.4	970.3	969.4	968.5	967.7
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



TEST NUMBER: P331501

CATALOG NUMBER: S122DIW-S485D710U835-4F0-1E-UDD-A

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°	6.6	6.6	6.5	6.8	6.7	6.7	6.5	6.7	6.9	6.4	6.5
90°	7.5	9.0	10.3	11.5	12.8	14.0	14.8	15.6	16.3	17.1	17.7
92.5°	13.5	13.8	14.4	15.0	15.6	16.2	16.6	17.1	17.5	17.9	18.2
95°	25.0	22.9	24.0	25.1	26.2	27.3	28.1	28.9	29.6	30.4	30.7
97.5°	32.4	26.5	29.0	31.5	34.0	36.5	37.2	37.8	38.4	39.0	39.4
100°	38.7	29.3	32.0	34.6	37.3	39.9	41.1	42.4	43.6	44.9	45.7
102.5°	142.8	129.5	107.4	85.3	63.1	41.0	42.6	44.3	45.9	47.5	48.5
105°	231.5	212.6	170.1	127.6	85.2	42.7	44.4	46.1	47.8	49.5	50.7
107.5°	287.1	263.5	212.6	161.7	110.7	59.8	58.0	56.3	54.6	52.8	52.3
110°	323.2	302.3	257.4	212.4	167.5	122.5	107.0	91.4	75.8	60.3	52.8



TEST NUMBER: P331501

CATALOG NUMBER: S122DIW-S485D710U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	357.5	353.4	342.3	331.2	320.1	309.0	252.3	195.5	138.8	82.0	53.9
115°	413.1	416.4	420.3	424.2	428.0	431.9	359.9	287.9	215.8	143.8	102.2
117.5°	464.9	467.7	470.4	473.1	475.7	478.4	461.0	443.6	426.1	408.7	381.6
120°	499.4	501.9	504.7	507.5	510.3	513.1	515.0	516.9	518.7	520.6	511.0
122.5°	531.2	534.0	537.0	540.1	543.1	546.2	547.3	548.4	549.5	550.7	549.2
125°	577.2	579.7	582.7	585.6	588.6	591.5	592.6	593.7	594.8	595.9	596.7
127.5°	621.4	623.6	625.8	628.0	630.2	632.4	634.0	635.6	637.2	638.8	639.6
130°	649.8	651.9	653.6	655.3	657.0	658.8	660.5	662.2	663.9	665.6	666.4
132.5°	676.3	678.2	679.9	681.6	683.4	685.1	686.5	688.0	689.5	690.9	691.6
135°	714.2	716.2	717.6	719.0	720.4	721.8	723.3	724.9	726.4	728.0	728.6
137.5°	748.0	749.7	751.3	752.9	754.5	756.1	757.6	759.1	760.6	762.2	762.7
140°	770.1	771.6	773.3	775.0	776.7	778.5	779.9	781.3	782.7	784.1	784.4
142.5°	789.8	791.3	793.3	795.3	797.2	799.2	800.5	801.7	803.0	804.3	804.5
145°	816.3	817.6	820.2	822.9	825.5	828.2	829.3	830.3	831.4	832.5	832.7
147.5°	842.2	843.2	845.8	848.4	851.0	853.6	854.5	855.3	856.1	856.9	857.0
150°	858.1	858.8	861.3	863.8	866.3	868.8	869.7	870.6	871.6	872.5	872.6
152.5°	872.7	873.3	875.7	878.0	880.4	882.8	883.7	884.6	885.6	886.5	886.5
155°	894.0	894.2	896.1	897.9	899.8	901.7	902.6	903.5	904.5	905.4	905.2
157.5°	912.1	912.1	913.4	914.7	916.0	917.3	918.4	919.5	920.5	921.6	921.5
160°	923.1	923.1	924.1	925.0	925.9	926.9	927.8	928.7	929.7	930.6	930.5
162.5°	932.1	932.0	932.8	933.7	934.5	935.3	936.3	937.4	938.4	939.5	939.4
165°	944.1	943.9	944.4	944.8	945.3	945.8	946.9	948.0	949.0	950.1	950.1
167.5°	953.1	952.9	953.3	953.7	954.2	954.6	955.7	956.8	957.9	958.9	958.8
170°	958.1	957.8	958.1	958.5	958.8	959.1	960.2	961.3	962.3	963.4	963.3
172.5°	961.5	961.2	961.5	961.8	962.1	962.4	963.5	964.6	965.7	966.8	966.6
175°	965.2	964.8	965.1	965.5	965.8	966.1	967.2	968.3	969.3	970.4	970.2
177.5°	966.8	966.4	966.5	966.7	966.8	966.9	967.8	968.7	969.5	970.4	970.3
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



TEST NUMBER: P331501

CATALOG NUMBER: S122DIW-S485D710U835-4F0-1E-UDD-A

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°	6.6	6.3	6.4	6.2	6.4	6.3	6.6	6.5	6.4	6.9	6.7
90°	18.0	18.3	18.6	18.9	18.6	18.3	18.0	17.7	17.1	16.3	15.6
92.5°	18.3	18.5	18.7	18.9	18.7	18.5	18.3	18.2	17.9	17.5	17.1
95°	30.6	30.4	30.3	30.1	30.3	30.4	30.6	30.7	30.4	29.6	28.9
97.5°	39.6	39.8	40.0	40.2	40.0	39.8	39.6	39.4	39.0	38.4	37.8
100°	46.0	46.3	46.6	46.9	46.6	46.3	46.0	45.7	44.9	43.6	42.4
102.5°	49.0	49.4	49.8	50.3	49.8	49.4	49.0	48.5	47.5	45.9	44.3
105°	51.3	52.0	52.6	53.2	52.6	52.0	51.3	50.7	49.5	47.8	46.1
107.5°	52.9	53.5	54.1	54.7	54.1	53.5	52.9	52.3	52.8	54.6	56.3
110°	53.4	54.1	54.7	55.3	54.7	54.1	53.4	52.8	60.3	75.8	91.4



TEST NUMBER: P331501

CATALOG NUMBER: S122DIW-S485D710U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	54.4	54.9	55.4	55.9	55.4	54.9	54.4	53.9	82.0	138.8	195.5
115°	91.0	79.8	68.6	57.4	68.6	79.8	91.0	102.2	143.8	215.8	287.9
117.5°	344.8	308.0	271.2	234.4	271.2	308.0	344.8	381.6	408.7	426.1	443.6
120°	490.0	469.0	448.0	427.0	448.0	469.0	490.0	511.0	520.6	518.7	516.9
122.5°	545.1	541.0	537.0	532.9	537.0	541.0	545.1	549.2	550.7	549.5	548.4
125°	597.1	597.6	598.1	598.5	598.1	597.6	597.1	596.7	595.9	594.8	593.7
127.5°	639.7	639.8	639.9	640.0	639.9	639.8	639.7	639.6	638.8	637.2	635.6
130°	666.2	666.1	665.9	665.8	665.9	666.1	666.2	666.4	665.6	663.9	662.2
132.5°	691.4	691.3	691.1	691.0	691.1	691.3	691.4	691.6	690.9	689.5	688.0
135°	728.3	728.0	727.7	727.4	727.7	728.0	728.3	728.6	728.0	726.4	724.9
137.5°	762.1	761.6	761.1	760.5	761.1	761.6	762.1	762.7	762.2	760.6	759.1
140°	783.6	782.8	782.0	781.3	782.0	782.8	783.6	784.4	784.1	782.7	781.3
142.5°	803.8	803.0	802.2	801.4	802.2	803.0	803.8	804.5	804.3	803.0	801.7
145°	831.9	831.1	830.3	829.6	830.3	831.1	831.9	832.7	832.5	831.4	830.3
147.5°	856.3	855.7	855.0	854.3	855.0	855.7	856.3	857.0	856.9	856.1	855.3
150°	871.8	871.0	870.2	869.5	870.2	871.0	871.8	872.6	872.5	871.6	870.6
152.5°	885.4	884.4	883.4	882.3	883.4	884.4	885.4	886.5	886.5	885.6	884.6
155°	904.0	902.8	901.5	900.3	901.5	902.8	904.0	905.2	905.4	904.5	903.5
157.5°	920.3	919.1	917.9	916.6	917.9	919.1	920.3	921.5	921.6	920.5	919.5
160°	929.4	928.3	927.3	926.2	927.3	928.3	929.4	930.5	930.6	929.7	928.7
162.5°	938.0	936.7	935.3	934.0	935.3	936.7	938.0	939.4	939.5	938.4	937.4
165°	949.0	948.0	946.9	945.8	946.9	948.0	949.0	950.1	950.1	949.0	948.0
167.5°	957.4	956.0	954.6	953.2	954.6	956.0	957.4	958.8	958.9	957.9	956.8
170°	961.9	960.5	959.1	957.7	959.1	960.5	961.9	963.3	963.4	962.3	961.3
172.5°	965.2	963.8	962.4	961.0	962.4	963.8	965.2	966.6	966.8	965.7	964.6
175°	968.6	967.1	965.5	964.0	965.5	967.1	968.6	970.2	970.4	969.3	968.3
177.5°	969.2	968.0	966.9	965.8	966.9	968.0	969.2	970.3	970.4	969.5	968.7
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



TEST NUMBER: P331501

CATALOG NUMBER: S122DIW-S485D710U835-4F0-1E-UDD-A

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°	6.5	6.7	6.7	6.8	6.5	6.6	6.6	6.5	6.8	6.8	6.7
90°	14.8	14.0	12.8	11.5	10.3	9.0	7.5	5.8	4.1	2.4	0.7
92.5°	16.6	16.2	15.6	15.0	14.4	13.8	13.5	13.7	13.8	14.0	14.1
95°	28.1	27.3	26.2	25.1	24.0	22.9	25.0	30.1	35.2	40.4	45.5
97.5°	37.2	36.5	34.0	31.5	29.0	26.5	32.4	46.9	61.4	75.8	90.3
100°	41.1	39.9	37.3	34.6	32.0	29.3	38.7	60.0	81.3	102.6	123.9
102.5°	42.6	41.0	63.1	85.3	107.4	129.5	142.8	147.3	151.8	156.4	160.9
105°	44.4	42.7	85.2	127.6	170.1	212.6	231.5	226.8	222.2	217.5	212.8
107.5°	58.0	59.8	110.7	161.7	212.6	263.5	287.1	283.3	279.6	275.8	272.0
110°	107.0	122.5	167.5	212.4	257.4	302.3	323.2	319.9	316.7	313.4	310.1



TEST NUMBER: P331501

CATALOG NUMBER: S122DIW-S485D710U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	252.3	309.0	320.1	331.2	342.3	353.4	357.5	354.6	351.8	348.9	346.0
115°	359.9	431.9	428.0	424.2	420.3	416.4	413.1	410.5	407.8	405.2	402.5
117.5°	461.0	478.4	475.7	473.1	470.4	467.7	464.9	461.9	459.0	456.0	453.1
120°	515.0	513.1	510.3	507.5	504.7	501.9	499.4	497.0	494.7	492.4	490.0
122.5°	547.3	546.2	543.1	540.1	537.0	534.0	531.2	528.8	526.3	523.9	521.4
125°	592.6	591.5	588.6	585.6	582.7	579.7	577.2	575.2	573.2	571.2	569.1
127.5°	634.0	632.4	630.2	628.0	625.8	623.6	621.4	619.1	616.9	614.6	612.4
130°	660.5	658.8	657.0	655.3	653.6	651.9	649.8	647.3	644.8	642.3	639.8
132.5°	686.5	685.1	683.4	681.6	679.9	678.2	676.3	674.2	672.1	670.0	667.9
135°	723.3	721.8	720.4	719.0	717.6	716.2	714.2	711.7	709.2	706.7	704.3
137.5°	757.6	756.1	754.5	752.9	751.3	749.7	748.0	746.3	744.6	742.8	741.1
140°	779.9	778.5	776.7	775.0	773.3	771.6	770.1	768.9	767.6	766.4	765.2
142.5°	800.5	799.2	797.2	795.3	793.3	791.3	789.8	788.7	787.6	786.4	785.3
145°	829.3	828.2	825.5	822.9	820.2	817.6	816.3	816.5	816.7	816.8	817.0
147.5°	854.5	853.6	851.0	848.4	845.8	843.2	842.2	842.8	843.4	844.0	844.5
150°	869.7	868.8	866.3	863.8	861.3	858.8	858.1	859.2	860.3	861.4	862.5
152.5°	883.7	882.8	880.4	878.0	875.7	873.3	872.7	873.9	875.2	876.4	877.6
155°	902.6	901.7	899.8	897.9	896.1	894.2	894.0	895.4	896.8	898.2	899.6
157.5°	918.4	917.3	916.0	914.7	913.4	912.1	912.1	913.2	914.4	915.6	916.8
160°	927.8	926.9	925.9	925.0	924.1	923.1	923.1	924.1	925.0	925.9	926.9
162.5°	936.3	935.3	934.5	933.7	932.8	932.0	932.1	933.0	934.0	934.9	935.8
165°	946.9	945.8	945.3	944.8	944.4	943.9	944.1	945.1	946.0	946.9	947.9
167.5°	955.7	954.6	954.2	953.7	953.3	952.9	953.1	954.0	955.0	955.9	956.8
170°	960.2	959.1	958.8	958.5	958.1	957.8	958.1	959.1	960.0	960.9	961.9
172.5°	963.5	962.4	962.1	961.8	961.5	961.2	961.5	962.4	963.4	964.3	965.2
175°	967.2	966.1	965.8	965.5	965.1	964.8	965.2	966.3	967.4	968.5	969.6
177.5°	967.8	966.9	966.8	966.7	966.5	966.4	966.8	967.7	968.5	969.4	970.3
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



TEST NUMBER: P331501

CATALOG NUMBER: S122DIW-S485D710U835-4F0-1E-UDD-A

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°	8.0	9.5	9.8	11.1	10.8	11.0	11.3	11.2	11.2	11.0	10.9
90°	2.4	4.1	5.8	7.5	9.0	10.3	11.5	12.8	14.0	14.8	15.6
92.5°	14.0	13.8	13.7	13.5	13.8	14.4	15.0	15.6	16.2	16.6	17.1
95°	40.4	35.2	30.1	25.0	22.9	24.0	25.1	26.2	27.3	28.1	28.9
97.5°	75.8	61.4	46.9	32.4	26.5	29.0	31.5	34.0	36.5	37.2	37.8
100°	102.6	81.3	60.0	38.7	29.3	32.0	34.6	37.3	39.9	41.1	42.4
102.5°	156.4	151.8	147.3	142.8	129.5	107.4	85.3	63.1	41.0	42.6	44.3
105°	217.5	222.2	226.8	231.5	212.6	170.1	127.6	85.2	42.7	44.4	46.1
107.5°	275.8	279.6	283.3	287.1	263.5	212.6	161.7	110.7	59.8	58.0	56.3
110°	313.4	316.7	319.9	323.2	302.3	257.4	212.4	167.5	122.5	107.0	91.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	348.9	351.8	354.6	357.5	353.4	342.3	331.2	320.1	309.0	252.3	195.5
115°	405.2	407.8	410.5	413.1	416.4	420.3	424.2	428.0	431.9	359.9	287.9
117.5°	456.0	459.0	461.9	464.9	467.7	470.4	473.1	475.7	478.4	461.0	443.6
120°	492.4	494.7	497.0	499.4	501.9	504.7	507.5	510.3	513.1	515.0	516.9
122.5°	523.9	526.3	528.8	531.2	534.0	537.0	540.1	543.1	546.2	547.3	548.4
125°	571.2	573.2	575.2	577.2	579.7	582.7	585.6	588.6	591.5	592.6	593.7
127.5°	614.6	616.9	619.1	621.4	623.6	625.8	628.0	630.2	632.4	634.0	635.6
130°	642.3	644.8	647.3	649.8	651.9	653.6	655.3	657.0	658.8	660.5	662.2
132.5°	670.0	672.1	674.2	676.3	678.2	679.9	681.6	683.4	685.1	686.5	688.0
135°	706.7	709.2	711.7	714.2	716.2	717.6	719.0	720.4	721.8	723.3	724.9
137.5°	742.8	744.6	746.3	748.0	749.7	751.3	752.9	754.5	756.1	757.6	759.1
140°	766.4	767.6	768.9	770.1	771.6	773.3	775.0	776.7	778.5	779.9	781.3
142.5°	786.4	787.6	788.7	789.8	791.3	793.3	795.3	797.2	799.2	800.5	801.7
145°	816.8	816.7	816.5	816.3	817.6	820.2	822.9	825.5	828.2	829.3	830.3
147.5°	844.0	843.4	842.8	842.2	843.2	845.8	848.4	851.0	853.6	854.5	855.3
150°	861.4	860.3	859.2	858.1	858.8	861.3	863.8	866.3	868.8	869.7	870.6
152.5°	876.4	875.2	873.9	872.7	873.3	875.7	878.0	880.4	882.8	883.7	884.6
155°	898.2	896.8	895.4	894.0	894.2	896.1	897.9	899.8	901.7	902.6	903.5
157.5°	915.6	914.4	913.2	912.1	912.1	913.4	914.7	916.0	917.3	918.4	919.5
160°	925.9	925.0	924.1	923.1	923.1	924.1	925.0	925.9	926.9	927.8	928.7
162.5°	934.9	934.0	933.0	932.1	932.0	932.8	933.7	934.5	935.3	936.3	937.4
165°	946.9	946.0	945.1	944.1	943.9	944.4	944.8	945.3	945.8	946.9	948.0
167.5°	955.9	955.0	954.0	953.1	952.9	953.3	953.7	954.2	954.6	955.7	956.8
170°	960.9	960.0	959.1	958.1	957.8	958.1	958.5	958.8	959.1	960.2	961.3
172.5°	964.3	963.4	962.4	961.5	961.2	961.5	961.8	962.1	962.4	963.5	964.6
175°	968.5	967.4	966.3	965.2	964.8	965.1	965.5	965.8	966.1	967.2	968.3
177.5°	969.4	968.5	967.7	966.8	966.4	966.5	966.7	966.8	966.9	967.8	968.7
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5



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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°	11.3	11.5	11.3	11.4	11.7	11.5	11.5
90°	16.3	17.1	17.7	18.0	18.3	18.6	18.9
92.5°	17.5	17.9	18.2	18.3	18.5	18.7	18.9
95°	29.6	30.4	30.7	30.6	30.4	30.3	30.1
97.5°	38.4	39.0	39.4	39.6	39.8	40.0	40.2
100°	43.6	44.9	45.7	46.0	46.3	46.6	46.9
102.5°	45.9	47.5	48.5	49.0	49.4	49.8	50.3
105°	47.8	49.5	50.7	51.3	52.0	52.6	53.2
107.5°	54.6	52.8	52.3	52.9	53.5	54.1	54.7
110°	75.8	60.3	52.8	53.4	54.1	54.7	55.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	138.8	82.0	53.9	54.4	54.9	55.4	55.9
115°	215.8	143.8	102.2	91.0	79.8	68.6	57.4
117.5°	426.1	408.7	381.6	344.8	308.0	271.2	234.4
120°	518.7	520.6	511.0	490.0	469.0	448.0	427.0
122.5°	549.5	550.7	549.2	545.1	541.0	537.0	532.9
125°	594.8	595.9	596.7	597.1	597.6	598.1	598.5
127.5°	637.2	638.8	639.6	639.7	639.8	639.9	640.0
130°	663.9	665.6	666.4	666.2	666.1	665.9	665.8
132.5°	689.5	690.9	691.6	691.4	691.3	691.1	691.0
135°	726.4	728.0	728.6	728.3	728.0	727.7	727.4
137.5°	760.6	762.2	762.7	762.1	761.6	761.1	760.5
140°	782.7	784.1	784.4	783.6	782.8	782.0	781.3
142.5°	803.0	804.3	804.5	803.8	803.0	802.2	801.4
145°	831.4	832.5	832.7	831.9	831.1	830.3	829.6
147.5°	856.1	856.9	857.0	856.3	855.7	855.0	854.3
150°	871.6	872.5	872.6	871.8	871.0	870.2	869.5
152.5°	885.6	886.5	886.5	885.4	884.4	883.4	882.3
155°	904.5	905.4	905.2	904.0	902.8	901.5	900.3
157.5°	920.5	921.6	921.5	920.3	919.1	917.9	916.6
160°	929.7	930.6	930.5	929.4	928.3	927.3	926.2
162.5°	938.4	939.5	939.4	938.0	936.7	935.3	934.0
165°	949.0	950.1	950.1	949.0	948.0	946.9	945.8
167.5°	957.9	958.9	958.8	957.4	956.0	954.6	953.2
170°	962.3	963.4	963.3	961.9	960.5	959.1	957.7
172.5°	965.7	966.8	966.6	965.2	963.8	962.4	961.0
175°	969.3	970.4	970.2	968.6	967.1	965.5	964.0
177.5°	969.5	970.4	970.3	969.2	968.0	966.9	965.8
180°	967.5	967.5	967.5	967.5	967.5	967.5	967.5

(END OF REPORT)