

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: P331671-840

Luminaire Tested: **S122RDIP-S485D1080U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331671-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S485D1080U840-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6126.2 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

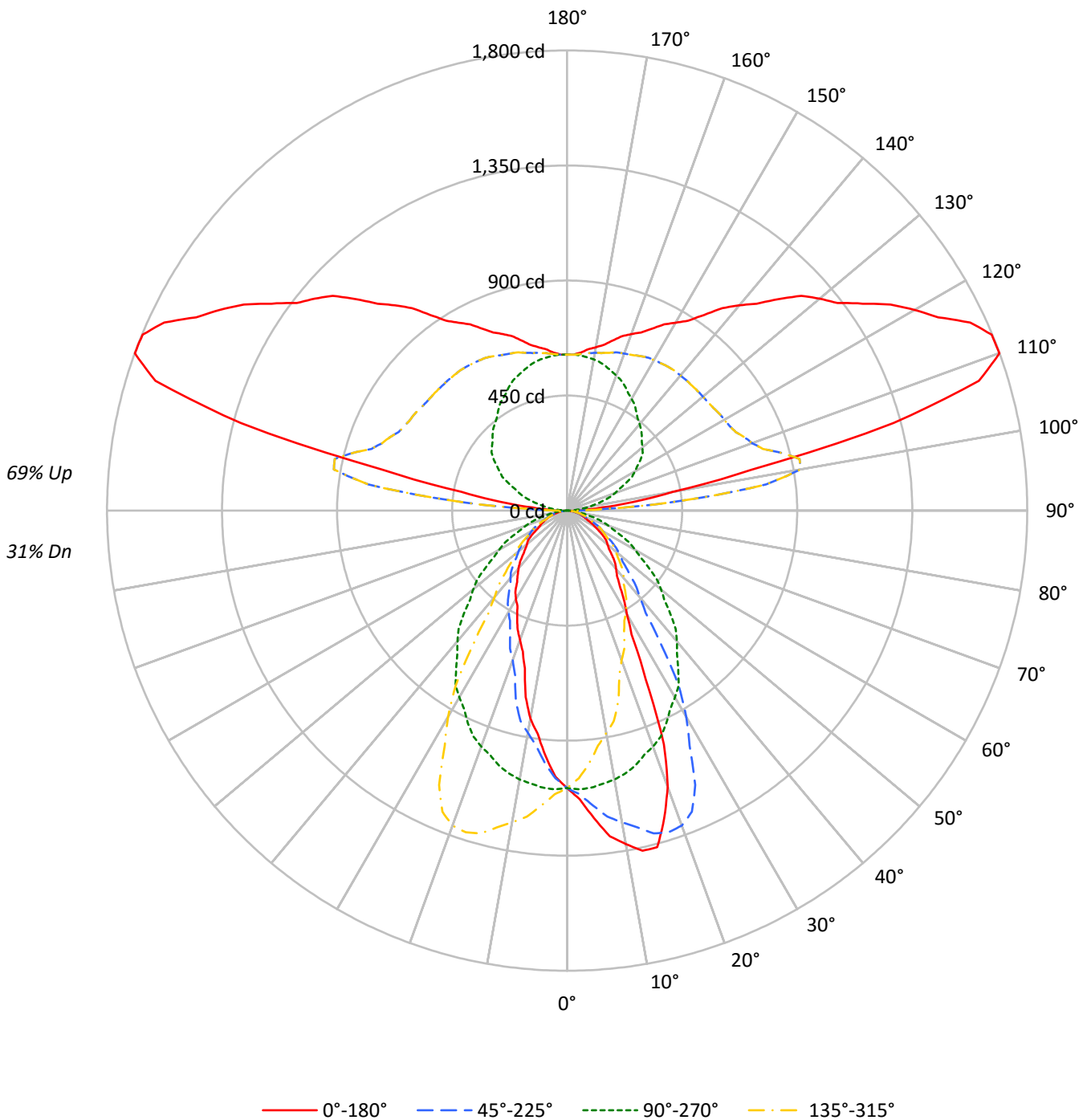
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	33	27
2	86	79	73	69	77	71	67	62	57	54	51	43	41	39	31	30	29	23
3	79	70	63	58	70	63	57	53	51	47	43	39	36	34	28	26	25	20
4	72	62	55	49	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	66	56	48	42	60	50	44	39	41	36	32	32	28	26	23	21	20	16
6	61	50	42	37	55	45	39	34	37	32	28	29	25	23	21	19	17	14
7	57	45	38	32	51	41	35	30	33	29	25	26	23	20	19	17	16	13
8	53	41	34	29	47	37	31	27	31	26	22	24	21	18	18	16	14	12
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11
10	46	34	28	23	41	31	25	21	26	21	18	21	17	15	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17525	17525	17525	17525
5°	19571	17634	15635	17634
10°	21713	17510	13554	17510
15°	22781	17254	10678	17254
20°	19749	16873	9241	16873
25°	12953	16352	8250	16352
30°	8720	15720	7467	15720
35°	7062	14927	6733	14927
40°	6279	14060	6232	14060
45°	5683	13047	5562	13047
50°	5172	12039	5152	12039
55°	4861	10925	4799	10925
60°	4066	9901	4017	9901
65°	3431	8989	3889	8989
70°	3172	8030	3668	8030
75°	2969	6987	3387	6987
80°	2734	5746	3013	5746
85°	2501	4539	2649	4539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	1.7
10°-20°	286.7	4.7
20°-30°	369.4	6.0
30°-40°	351.1	5.7
40°-50°	300.7	4.9
50°-60°	229.0	3.7
60°-70°	144.8	2.4
70°-80°	72.3	1.2
80°-90°	24.3	0.4
90°-100°	243.9	4.0
100°-110°	827.7	13.5
110°-120°	879.3	14.4
120°-130°	723.9	11.8
130°-140°	581.3	9.5
140°-150°	439.3	7.2
150°-160°	308.7	5.0
160°-170°	181.7	3.0
170°-180°	59.1	1.0
0°-30°	759.0	12.4
0°-40°	1110.1	18.1
0°-60°	1639.8	26.8
0°-90°	1881.2	30.7
90°-120°	1951.0	31.8
90°-150°	3695.4	60.3
90°-180°	4245.0	69.3
0°-180°	6126.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1085	1085	1085	1085	1085	
5°	1208	1088	965	1088	1208	119
15°	1363	1032	639	1032	1363	368
25°	727	918	463	918	727	345
35°	358	757	342	757	358	229
45°	249	571	244	571	249	193
55°	173	388	170	388	173	152
65°	90	235	102	235	90	91
75°	48	112	54	112	48	50
85°	14	24	14	24	14	16
90°	39	1	39	1	39	21
95°	134	41	134	41	134	174
105°	1322	143	1322	143	1322	1279
115°	1740	252	1740	252	1740	1704
125°	1411	352	1411	352	1411	1275
135°	1170	413	1170	413	1170	909
145°	934	472	934	472	934	593
155°	785	536	785	536	785	366
165°	689	584	689	584	689	197
175°	621	609	621	609	621	60
180°	610	610	610	610	610	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1129.4	1130.3	1131.3	1129.1	1129.1	1127.3	1123.4	1120.3	1111.9	1110.6	1110.6
5°	1207.5	1206.8	1208.3	1203.4	1196.6	1195.1	1187.9	1178.5	1168.7	1157.7	1155.5
7.5°	1285.3	1284.1	1281.1	1280.2	1275.1	1263.6	1252.1	1239.8	1223.6	1207.6	1199.6
10°	1324.4	1336.9	1329.4	1316.2	1318.8	1301.1	1291.6	1275.5	1261.8	1238.1	1232.8
12.5°	1363.0	1368.0	1365.5	1358.1	1354.7	1342.4	1329.7	1315.6	1290.5	1269.2	1250.6
15°	1362.9	1370.1	1372.0	1369.7	1371.6	1370.8	1364.0	1352.3	1330.5	1307.1	1286.8
17.5°	1262.3	1267.3	1279.6	1288.0	1298.6	1320.9	1331.9	1336.3	1332.9	1319.6	1305.3
20°	1149.4	1141.1	1175.9	1193.6	1208.7	1246.4	1278.8	1291.2	1311.2	1310.9	1307.1
22.5°	989.6	991.5	1024.4	1045.4	1089.5	1127.2	1164.2	1211.0	1249.7	1275.3	1290.2
25°	727.1	741.4	774.3	802.8	851.9	922.1	985.8	1059.8	1129.4	1184.6	1237.0
27.5°	546.0	547.1	573.1	599.7	628.7	686.2	766.5	854.7	954.2	1036.2	1130.6
30°	467.7	465.3	476.4	492.5	517.5	561.9	622.3	709.0	808.2	931.9	1042.0
32.5°	412.1	412.2	420.5	432.5	453.1	483.1	524.5	594.9	688.7	810.3	939.4
35°	358.3	357.9	364.0	372.6	381.2	400.5	428.8	465.7	530.3	643.8	775.8
37.5°	319.6	321.3	324.3	329.7	339.2	349.9	367.0	391.7	437.7	504.8	615.7
40°	297.9	298.7	302.9	307.4	313.1	321.3	335.3	355.3	388.8	442.3	523.4
42.5°	278.0	278.7	281.8	285.9	290.3	298.7	310.2	327.5	354.8	396.5	463.4
45°	248.9	248.9	251.6	253.4	258.3	265.9	275.3	289.6	308.5	339.4	384.0
47.5°	221.6	221.7	223.4	226.6	229.7	235.6	244.9	256.6	270.3	294.3	332.2
50°	205.9	206.3	207.4	210.1	212.0	217.2	224.4	234.6	248.9	267.4	299.0
52.5°	193.2	193.0	194.4	195.6	196.8	200.7	206.0	215.0	227.8	243.9	270.1
55°	172.7	171.2	173.5	175.3	176.5	178.0	181.0	186.7	197.6	211.2	230.8
57.5°	147.0	146.4	148.0	149.8	153.3	157.4	160.0	163.6	169.3	178.9	198.4
60°	125.9	125.9	129.4	130.5	134.6	139.9	145.2	148.2	153.9	160.3	174.6
62.5°	107.2	107.6	109.2	110.3	112.6	119.1	126.5	133.1	138.5	144.6	154.1
65°	89.8	90.5	90.5	91.3	92.8	94.3	97.3	102.6	112.0	120.7	127.8
67.5°	76.1	76.4	76.6	77.4	77.8	79.4	80.6	83.0	85.1	93.4	102.3
70°	67.2	68.3	67.9	68.7	69.0	69.8	71.3	72.4	75.8	77.7	83.0
72.5°	58.7	59.5	59.5	59.9	60.9	61.0	62.2	63.3	65.5	67.2	70.0
75°	47.6	47.2	47.6	48.3	48.7	49.0	49.0	50.5	51.7	53.2	55.0
77.5°	36.7	37.1	37.0	37.1	37.1	37.8	37.7	38.4	39.5	40.3	41.2
80°	29.4	29.8	29.4	29.8	30.2	30.5	30.2	30.5	31.7	32.4	32.4
82.5°	22.8	22.8	23.1	23.1	23.2	23.3	23.8	23.9	24.7	24.5	24.8
85°	13.5	13.2	13.2	13.2	13.5	13.9	13.5	13.5	13.9	13.9	13.9
87.5°	12.5	12.8	12.8	12.8	12.8	12.6	12.1	12.9	12.8	13.4	12.8
90°	38.7	38.7	38.7	38.7	38.7	37.6	35.2	37.6	38.7	39.9	38.7
92.5°	65.0	66.9	65.9	69.7	70.6	77.9	87.8	102.3	128.9	152.5	150.4
95°	133.7	132.6	136.1	145.4	160.7	186.5	235.8	307.4	402.4	459.9	407.1
97.5°	263.3	273.1	290.2	319.1	375.2	459.9	586.8	717.2	823.5	785.1	591.3
100°	420.0	441.1	475.1	525.5	622.9	764.9	925.6	1071.1	1095.7	926.8	638.1
102.5°	739.1	767.7	810.2	896.3	1002.1	1152.5	1270.0	1302.9	1197.1	931.5	620.4
105°	1322.1	1338.6	1389.0	1461.7	1534.5	1573.2	1557.9	1425.3	1181.3	869.3	585.4
107.5°	1688.8	1710.6	1720.7	1724.7	1715.6	1658.8	1536.8	1337.2	1078.3	802.6	568.0
110°	1799.6	1800.8	1790.2	1767.9	1717.5	1621.2	1471.1	1261.1	1013.6	770.7	564.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1797.7	1791.4	1771.4	1734.1	1664.0	1553.7	1393.2	1191.6	968.6	750.1	565.2
115°	1739.8	1729.2	1698.7	1644.8	1561.5	1440.6	1287.0	1106.3	912.7	727.3	570.2
117.5°	1636.3	1627.4	1595.2	1538.2	1453.3	1340.0	1200.6	1042.0	877.5	716.3	578.6
120°	1569.6	1557.9	1523.9	1468.7	1386.6	1279.9	1155.5	1010.1	858.7	709.7	584.2
122.5°	1500.2	1490.4	1460.1	1405.8	1332.2	1235.8	1118.0	984.7	842.7	706.0	590.8
125°	1411.3	1401.9	1372.6	1328.0	1259.9	1171.9	1068.7	947.9	820.0	699.2	600.7
127.5°	1333.4	1325.9	1300.5	1258.8	1199.4	1118.2	1020.9	911.5	798.9	695.2	610.8
130°	1289.3	1279.9	1256.5	1216.6	1159.0	1081.7	989.0	888.1	784.9	693.3	618.2
132.5°	1243.2	1234.9	1213.3	1173.4	1116.8	1044.1	959.0	865.6	773.6	692.4	625.7
135°	1169.6	1164.9	1143.8	1105.1	1054.6	989.0	911.5	834.0	757.8	690.9	634.7
137.5°	1097.3	1090.4	1071.8	1038.4	992.5	935.2	873.7	809.0	746.8	690.7	642.7
140°	1047.6	1040.6	1023.0	992.5	954.9	903.3	849.4	793.0	740.2	689.8	646.4
142.5°	997.8	996.4	980.8	953.0	917.4	874.2	827.8	779.9	733.7	689.8	649.2
145°	933.8	930.3	918.6	898.6	870.5	836.5	800.1	761.3	725.0	687.4	652.3
147.5°	880.1	878.0	870.0	854.0	830.8	806.0	777.6	747.1	716.1	683.3	653.2
150°	848.2	847.0	840.0	825.9	808.3	787.2	762.5	736.7	708.5	680.4	652.3
152.5°	820.9	820.7	815.6	803.3	789.5	771.2	750.3	726.4	702.0	675.7	650.4
155°	784.9	787.2	782.4	774.3	761.3	748.4	730.8	712.1	689.8	667.5	647.5
157.5°	754.1	754.1	751.9	745.2	736.0	725.9	711.1	695.4	678.3	659.0	642.2
160°	734.4	734.4	733.2	727.3	719.1	710.9	698.0	685.1	669.8	653.5	639.3
162.5°	715.6	716.5	715.4	711.3	703.2	696.8	685.8	674.8	662.4	648.7	636.5
165°	688.6	689.8	689.8	685.1	680.4	675.7	667.5	659.3	649.9	639.3	631.2
167.5°	663.8	665.2	665.4	662.8	660.8	656.5	650.9	644.5	637.7	631.2	625.7
170°	648.7	651.1	652.3	648.7	647.5	645.2	640.6	637.0	631.2	626.4	622.9
172.5°	636.5	637.9	639.1	637.5	636.3	634.9	631.2	628.5	624.6	620.9	619.1
175°	620.6	622.9	624.1	622.9	622.9	621.8	620.6	619.5	615.9	614.7	613.6
177.5°	611.0	612.9	613.8	613.8	613.8	613.8	612.9	612.9	611.0	610.1	611.0
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1111.3	1108.9	1106.8	1101.4	1098.6	1092.6	1091.7	1091.4	1083.6	1076.0	1073.9
5°	1149.4	1143.5	1134.4	1123.8	1112.9	1101.6	1094.0	1088.0	1072.9	1058.5	1050.3
7.5°	1187.9	1175.0	1159.3	1139.3	1122.7	1104.0	1090.1	1077.6	1056.2	1035.7	1021.9
10°	1216.6	1195.5	1174.8	1147.2	1125.7	1104.6	1085.0	1068.0	1043.9	1016.7	997.4
12.5°	1234.4	1211.1	1182.6	1155.7	1127.8	1101.0	1074.7	1052.9	1024.6	996.5	973.6
15°	1258.5	1233.6	1198.9	1160.4	1124.6	1089.5	1059.3	1032.2	995.2	961.7	933.7
17.5°	1278.2	1243.9	1206.6	1162.2	1120.6	1076.1	1037.2	1002.5	961.4	920.9	888.1
20°	1284.4	1250.5	1207.5	1163.1	1114.0	1061.6	1019.8	982.0	937.9	893.7	856.1
22.5°	1280.5	1254.2	1206.3	1153.1	1102.9	1048.0	1000.8	956.9	908.1	863.0	819.3
25°	1253.9	1244.9	1199.6	1141.6	1084.2	1020.5	965.8	917.9	862.1	813.9	766.3
27.5°	1191.8	1211.4	1183.4	1121.5	1057.7	989.4	928.0	873.4	815.5	761.1	713.8
30°	1132.2	1177.0	1164.9	1107.6	1036.3	969.2	900.2	843.2	781.4	725.6	678.8
32.5°	1050.4	1124.5	1136.3	1088.3	1014.6	940.8	868.5	811.8	747.3	688.4	642.9
35°	920.2	1031.1	1082.0	1051.4	977.4	898.0	823.2	757.3	692.4	634.3	589.1
37.5°	764.9	915.8	1000.8	1002.9	935.0	852.3	771.0	705.5	639.0	582.1	533.1
40°	664.1	827.8	938.3	962.8	905.4	816.1	733.9	667.1	602.3	546.4	490.3
42.5°	573.6	736.7	872.5	915.1	869.6	780.8	698.3	628.5	565.4	512.6	455.2
45°	463.8	606.4	756.1	832.3	807.1	724.8	637.7	571.4	512.1	466.5	411.4
47.5°	391.3	491.8	636.6	739.7	739.2	664.2	578.6	514.9	460.0	417.3	372.6
50°	349.9	437.5	560.1	676.9	686.7	623.8	542.3	479.3	428.1	383.1	347.3
52.5°	312.9	385.0	495.1	607.2	635.1	580.6	501.6	443.4	393.6	352.3	321.6
55°	264.4	320.1	403.9	508.8	551.0	512.5	442.3	388.1	347.7	313.1	286.6
57.5°	223.6	265.5	332.6	417.1	466.3	442.0	384.3	340.1	305.6	274.2	253.4
60°	198.0	232.3	289.2	359.8	414.0	397.1	347.7	306.6	277.2	250.0	230.5
62.5°	173.9	203.4	252.2	309.4	359.2	352.1	311.8	277.3	251.6	226.8	210.3
65°	139.9	161.4	199.4	244.4	284.4	287.7	258.7	235.3	212.3	192.7	178.0
67.5°	111.4	125.4	152.3	190.1	220.0	230.8	213.0	195.1	176.8	161.7	149.0
70°	93.9	105.2	124.8	155.4	182.9	194.2	184.0	170.1	154.2	141.8	130.9
72.5°	76.1	87.2	101.6	124.0	147.6	159.9	156.3	146.2	133.4	123.1	112.8
75°	57.4	60.7	70.5	85.6	104.1	114.6	117.2	112.0	101.8	93.9	87.9
77.5°	42.4	44.4	49.1	57.1	69.1	78.5	82.4	81.8	74.7	70.2	64.5
80°	33.9	35.0	37.4	40.7	49.8	59.2	61.8	61.8	57.0	55.0	49.4
82.5°	25.8	26.7	28.0	29.9	34.1	42.3	45.2	45.8	42.7	40.3	35.9
85°	14.7	14.3	15.0	16.3	17.0	19.2	23.7	24.5	23.7	20.7	19.6
87.5°	11.5	10.1	9.0	8.0	7.8	7.6	8.2	9.0	8.5	8.5	8.4
90°	31.7	23.4	17.6	14.0	11.7	9.4	4.6	1.2	4.6	9.4	11.7
92.5°	117.0	79.8	53.2	42.2	34.2	29.1	20.6	14.3	20.6	29.1	34.2
95°	270.9	169.0	114.9	86.8	68.1	57.5	45.7	41.1	45.7	57.5	68.1
97.5°	365.1	222.9	155.1	123.2	101.6	85.6	73.2	66.9	73.2	85.6	101.6
100°	384.8	241.7	179.5	146.6	123.2	104.4	93.8	90.3	93.8	104.4	123.2
102.5°	385.8	258.5	201.1	168.2	143.8	125.0	114.5	111.9	114.5	125.0	143.8
105°	391.8	287.4	232.3	199.4	173.6	156.0	147.8	143.1	147.8	156.0	173.6
107.5°	408.0	317.0	263.5	230.5	204.8	188.6	180.7	176.9	180.7	188.6	204.8
110°	421.1	336.7	285.1	251.1	226.4	211.2	204.1	199.4	204.1	211.2	226.4



TEST NUMBER: P331671-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	435.3	355.5	305.7	270.7	247.0	232.8	224.8	220.0	224.8	232.8	247.0
115°	456.4	384.8	334.4	302.7	279.2	265.1	258.1	252.3	258.1	265.1	279.2
117.5°	478.9	411.7	365.1	332.2	309.7	297.3	290.2	285.6	290.2	297.3	309.7
120°	493.9	430.5	384.8	351.9	328.5	317.9	310.8	306.2	310.8	317.9	328.5
122.5°	507.1	448.4	405.5	371.6	348.2	336.7	329.6	325.9	329.6	336.7	348.2
125°	528.0	475.1	432.9	400.0	376.6	362.5	355.5	351.9	355.5	362.5	376.6
127.5°	547.3	500.0	458.9	425.2	402.6	387.2	377.3	372.5	377.3	387.2	402.6
130°	559.6	515.0	473.9	441.1	417.7	401.2	389.5	384.8	389.5	401.2	417.7
132.5°	571.8	528.2	489.0	456.2	431.7	414.3	401.7	396.1	401.7	414.3	431.7
135°	587.7	546.6	509.2	476.3	449.3	431.7	417.7	412.9	417.7	431.7	449.3
137.5°	600.0	561.7	524.6	494.1	467.4	448.6	434.5	428.9	434.5	448.6	467.4
140°	606.5	570.2	534.9	504.4	478.7	459.9	445.8	441.1	445.8	459.9	478.7
142.5°	612.2	576.7	542.5	513.8	489.0	470.2	457.1	453.3	457.1	470.2	489.0
145°	619.5	586.5	554.9	529.1	505.6	488.1	476.3	471.6	476.3	488.1	505.6
147.5°	623.4	594.5	564.7	541.8	522.3	506.0	494.8	491.3	494.8	506.0	522.3
150°	625.3	598.3	571.3	550.2	532.6	517.4	508.0	504.4	508.0	517.4	532.6
152.5°	626.2	602.1	577.8	558.7	542.0	528.6	519.3	517.6	519.3	528.6	542.0
155°	627.6	607.6	587.7	570.2	557.2	544.3	537.2	536.1	537.2	544.3	557.2
157.5°	627.6	611.7	594.8	580.0	569.7	558.5	552.8	551.6	552.8	558.5	569.7
160°	627.6	613.6	599.5	586.5	577.1	567.7	563.1	561.9	563.1	567.7	577.1
162.5°	626.7	614.5	602.3	592.2	583.7	576.2	571.6	572.3	571.6	576.2	583.7
165°	624.1	615.9	605.3	598.3	592.4	585.4	583.1	584.2	583.1	585.4	592.4
167.5°	622.5	615.6	607.9	603.5	599.3	594.8	592.7	594.1	592.7	594.8	599.3
170°	620.6	614.7	608.8	605.3	603.0	599.5	598.3	600.7	598.3	599.5	603.0
172.5°	617.7	613.8	609.8	607.2	605.8	602.3	603.0	604.4	603.0	602.3	605.8
175°	614.7	612.4	610.1	608.8	608.8	606.5	607.6	608.8	607.6	606.5	608.8
177.5°	612.9	611.0	610.1	610.1	610.1	608.1	609.0	611.0	609.0	608.1	610.1
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



TEST NUMBER: P331671-840

CATALOG NUMBER: S122RDIP-S485D1080U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1070.0	1067.8	1063.9	1057.9	1054.3	1047.9	1043.7	1046.1	1046.7	1046.1	1045.5
5°	1041.3	1033.3	1022.4	1011.8	1002.0	991.5	985.4	982.8	977.4	974.5	973.0
7.5°	1006.4	992.8	977.3	959.0	943.3	927.0	918.6	914.4	903.6	897.8	892.6
10°	980.5	959.0	943.5	919.4	904.7	883.2	868.5	868.9	854.1	845.9	839.8
12.5°	951.9	928.3	902.5	880.8	860.4	843.1	825.4	818.2	802.5	794.6	778.3
15°	904.3	876.8	849.7	820.2	799.5	772.7	747.1	715.8	690.5	668.6	662.6
17.5°	852.4	818.4	791.1	756.6	721.0	676.0	646.3	628.1	612.9	601.4	592.8
20°	816.9	782.1	753.2	701.0	653.2	622.6	600.8	586.8	571.0	558.6	551.7
22.5°	779.4	743.3	703.7	645.5	608.2	583.7	564.2	548.2	537.5	527.8	521.6
25°	726.3	686.7	621.5	581.5	551.4	525.7	512.1	502.3	491.0	477.8	471.8
27.5°	670.2	607.2	560.4	530.7	501.9	485.2	473.0	458.4	448.3	442.3	436.1
30°	628.2	565.3	528.8	496.2	475.9	457.5	443.1	434.8	425.1	414.9	410.7
32.5°	581.5	531.2	496.1	469.2	448.5	432.7	421.4	408.0	400.9	394.7	386.0
35°	523.4	485.3	453.3	431.4	411.8	399.0	385.8	377.9	365.1	359.8	356.4
37.5°	474.2	441.2	417.3	394.3	378.7	364.6	356.5	343.9	338.3	330.9	323.8
40°	446.5	414.0	391.1	372.2	354.9	344.3	334.2	324.0	315.7	312.3	303.6
42.5°	418.2	391.7	368.7	348.1	336.5	325.3	312.5	305.0	296.3	290.8	285.5
45°	379.0	355.7	336.0	319.0	306.2	294.6	286.2	273.8	268.9	257.9	253.4
47.5°	344.6	322.9	304.2	288.0	275.5	267.9	255.8	246.0	238.2	231.5	225.7
50°	320.1	302.1	284.0	269.6	258.3	247.4	235.0	230.0	217.9	214.6	211.2
52.5°	297.8	280.6	264.1	250.0	238.7	228.1	217.1	210.8	202.6	199.1	196.7
55°	266.6	250.0	234.2	221.8	210.5	199.4	192.7	184.8	181.0	178.3	175.3
57.5°	235.2	220.4	208.1	195.6	184.2	175.5	167.6	162.9	159.0	155.5	151.9
60°	215.3	201.0	190.1	178.3	166.7	159.6	153.5	147.8	143.3	138.0	136.5
62.5°	194.2	181.7	171.7	160.3	150.1	143.5	137.8	132.5	127.0	119.4	117.2
65°	165.2	155.4	144.8	135.4	126.3	120.0	111.6	105.6	103.3	102.6	102.2
67.5°	139.0	129.7	120.6	111.0	102.7	96.7	92.5	91.6	90.1	89.6	88.6
70°	121.4	112.8	103.7	94.6	86.7	85.6	84.1	82.6	80.7	80.0	79.2
72.5°	105.7	96.7	87.8	80.5	77.1	75.6	74.1	72.6	71.4	70.6	70.2
75°	81.1	72.8	66.8	64.1	62.2	61.1	58.9	57.7	57.0	55.8	55.4
77.5°	58.4	53.7	50.9	49.3	47.3	46.0	44.8	43.6	42.8	42.6	42.0
80°	44.5	42.2	40.4	38.1	37.4	35.9	35.4	34.3	34.7	33.5	33.5
82.5°	34.5	31.7	30.1	29.1	28.3	27.1	26.7	26.2	26.3	25.4	25.4
85°	17.8	17.0	16.3	15.5	15.5	14.3	14.7	14.3	14.3	13.5	13.2
87.5°	8.6	9.0	9.5	11.2	12.5	12.5	12.2	11.7	11.3	11.7	11.7
90°	14.0	17.6	23.4	31.7	38.7	39.9	38.7	37.6	35.2	37.6	38.7
92.5°	42.2	53.2	79.8	117.0	150.4	152.5	128.9	102.3	87.8	77.9	70.6
95°	86.8	114.9	169.0	270.9	407.1	459.9	402.4	307.4	235.8	186.5	160.7
97.5°	123.2	155.1	222.9	365.1	591.3	785.1	823.5	717.2	586.8	459.9	375.2
100°	146.6	179.5	241.7	384.8	638.1	926.8	1095.7	1071.1	925.6	764.9	622.9
102.5°	168.2	201.1	258.5	385.8	620.4	931.5	1197.1	1302.9	1270.0	1152.5	1002.1
105°	199.4	232.3	287.4	391.8	585.4	869.3	1181.3	1425.3	1557.9	1573.2	1534.5
107.5°	230.5	263.5	317.0	408.0	568.0	802.6	1078.3	1337.2	1536.8	1658.8	1715.6
110°	251.1	285.1	336.7	421.1	564.3	770.7	1013.6	1261.1	1471.1	1621.2	1717.5



TEST NUMBER: P331671-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	270.7	305.7	355.5	435.3	565.2	750.1	968.6	1191.6	1393.2	1553.7	1664.0
115°	302.7	334.4	384.8	456.4	570.2	727.3	912.7	1106.3	1287.0	1440.6	1561.5
117.5°	332.2	365.1	411.7	478.9	578.6	716.3	877.5	1042.0	1200.6	1340.0	1453.3
120°	351.9	384.8	430.5	493.9	584.2	709.7	858.7	1010.1	1155.5	1279.9	1386.6
122.5°	371.6	405.5	448.4	507.1	590.8	706.0	842.7	984.7	1118.0	1235.8	1332.2
125°	400.0	432.9	475.1	528.0	600.7	699.2	820.0	947.9	1068.7	1171.9	1259.9
127.5°	425.2	458.9	500.0	547.3	610.8	695.2	798.9	911.5	1020.9	1118.2	1199.4
130°	441.1	473.9	515.0	559.6	618.2	693.3	784.9	888.1	989.0	1081.7	1159.0
132.5°	456.2	489.0	528.2	571.8	625.7	692.4	773.6	865.6	959.0	1044.1	1116.8
135°	476.3	509.2	546.6	587.7	634.7	690.9	757.8	834.0	911.5	989.0	1054.6
137.5°	494.1	524.6	561.7	600.0	642.7	690.7	746.8	809.0	873.7	935.2	992.5
140°	504.4	534.9	570.2	606.5	646.4	689.8	740.2	793.0	849.4	903.3	954.9
142.5°	513.8	542.5	576.7	612.2	649.2	689.8	733.7	779.9	827.8	874.2	917.4
145°	529.1	554.9	586.5	619.5	652.3	687.4	725.0	761.3	800.1	836.5	870.5
147.5°	541.8	564.7	594.5	623.4	653.2	683.3	716.1	747.1	777.6	806.0	830.8
150°	550.2	571.3	598.3	625.3	652.3	680.4	708.5	736.7	762.5	787.2	808.3
152.5°	558.7	577.8	602.1	626.2	650.4	675.7	702.0	726.4	750.3	771.2	789.5
155°	570.2	587.7	607.6	627.6	647.5	667.5	689.8	712.1	730.8	748.4	761.3
157.5°	580.0	594.8	611.7	627.6	642.2	659.0	678.3	695.4	711.1	725.9	736.0
160°	586.5	599.5	613.6	627.6	639.3	653.5	669.8	685.1	698.0	710.9	719.1
162.5°	592.2	602.3	614.5	626.7	636.5	648.7	662.4	674.8	685.8	696.8	703.2
165°	598.3	605.3	615.9	624.1	631.2	639.3	649.9	659.3	667.5	675.7	680.4
167.5°	603.5	607.9	615.6	622.5	625.7	631.2	637.7	644.5	650.9	656.5	660.8
170°	605.3	608.8	614.7	620.6	622.9	626.4	631.2	637.0	640.6	645.2	647.5
172.5°	607.2	609.8	613.8	617.7	619.1	620.9	624.6	628.5	631.2	634.9	636.3
175°	608.8	610.1	612.4	614.7	613.6	614.7	615.9	619.5	620.6	621.8	622.9
177.5°	610.1	610.1	611.0	612.9	611.0	610.1	611.0	612.9	612.9	613.8	613.8
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



TEST NUMBER: P331671-840

CATALOG NUMBER: S122RDIP-S485D1080U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1042.2	1042.8	1041.9	1042.5	1041.9	1042.8	1042.2	1045.5	1046.1	1046.7	1046.1
5°	971.1	966.5	965.8	964.7	965.8	966.5	971.1	973.0	974.5	977.4	982.8
7.5°	886.2	885.4	883.6	880.9	883.6	885.4	886.2	892.6	897.8	903.6	914.4
10°	831.5	829.7	829.3	826.7	829.3	829.7	831.5	839.8	845.9	854.1	868.9
12.5°	767.6	755.5	754.2	747.6	754.2	755.5	767.6	778.3	794.6	802.5	818.2
15°	653.6	651.3	643.8	638.8	643.8	651.3	653.6	662.6	668.6	690.5	715.8
17.5°	588.3	581.0	578.7	577.6	578.7	581.0	588.3	592.8	601.4	612.9	628.1
20°	546.4	539.7	538.6	537.8	538.6	539.7	546.4	551.7	558.6	571.0	586.8
22.5°	517.5	510.4	507.5	505.2	507.5	510.4	517.5	521.6	527.8	537.5	548.2
25°	468.0	465.3	463.8	463.1	463.8	465.3	468.0	471.8	477.8	491.0	502.3
27.5°	429.3	423.5	422.3	420.4	422.3	423.5	429.3	436.1	442.3	448.3	458.4
30°	407.3	405.4	402.7	400.5	402.7	405.4	407.3	410.7	414.9	425.1	434.8
32.5°	381.3	379.8	377.4	376.4	377.4	379.8	381.3	386.0	394.7	400.9	408.0
35°	352.6	347.3	345.1	341.6	345.1	347.3	352.6	356.4	359.8	365.1	377.9
37.5°	322.2	319.4	316.3	317.4	316.3	319.4	322.2	323.8	330.9	338.3	343.9
40°	298.7	296.8	296.0	295.7	296.0	296.8	298.7	303.6	312.3	315.7	324.0
42.5°	279.9	274.8	272.8	272.8	272.8	274.8	279.9	285.5	290.8	296.3	305.0
45°	251.6	246.6	243.3	243.6	243.3	246.6	251.6	253.4	257.9	268.9	273.8
47.5°	222.5	222.3	220.2	220.9	220.2	222.3	222.5	225.7	231.5	238.2	246.0
50°	208.5	206.3	204.8	205.1	204.8	206.3	208.5	211.2	214.6	217.9	230.0
52.5°	195.3	193.3	192.1	193.7	192.1	193.3	195.3	196.7	199.1	202.6	210.8
55°	173.5	171.2	170.9	170.5	170.9	171.2	173.5	175.3	178.3	181.0	184.8
57.5°	149.2	147.6	145.3	144.4	145.3	147.6	149.2	151.9	155.5	159.0	162.9
60°	131.6	128.6	124.8	124.4	124.8	128.6	131.6	136.5	138.0	143.3	147.8
62.5°	115.6	115.0	114.3	114.2	114.3	115.0	115.6	117.2	119.4	127.0	132.5
65°	101.5	101.1	101.5	101.8	101.5	101.1	101.5	102.2	102.6	103.3	105.6
67.5°	88.4	87.8	87.1	87.4	87.1	87.8	88.4	88.6	89.6	90.1	91.6
70°	78.5	78.1	77.7	77.7	77.7	78.1	78.5	79.2	80.0	80.7	82.6
72.5°	68.8	68.7	68.4	68.1	68.4	68.7	68.8	70.2	70.6	71.4	72.6
75°	55.0	54.3	54.3	54.3	54.3	54.3	55.0	55.4	55.8	57.0	57.7
77.5°	41.9	41.6	41.2	40.9	41.2	41.6	41.9	42.0	42.6	42.8	43.6
80°	33.2	32.8	32.4	32.4	32.4	32.8	33.2	33.5	33.5	34.7	34.3
82.5°	25.3	24.9	24.8	24.5	24.8	24.9	25.3	25.4	25.4	26.3	26.2
85°	13.5	13.9	13.5	14.3	13.5	13.9	13.5	13.2	13.5	14.3	14.3
87.5°	11.7	11.4	11.7	11.4	11.7	11.4	11.7	11.7	11.7	11.3	11.7
90°	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	37.6	35.2	37.6
92.5°	69.7	65.9	66.9	65.0	66.9	65.9	69.7	70.6	77.9	87.8	102.3
95°	145.4	136.1	132.6	133.7	132.6	136.1	145.4	160.7	186.5	235.8	307.4
97.5°	319.1	290.2	273.1	263.3	273.1	290.2	319.1	375.2	459.9	586.8	717.2
100°	525.5	475.1	441.1	420.0	441.1	475.1	525.5	622.9	764.9	925.6	1071.1
102.5°	896.3	810.2	767.7	739.1	767.7	810.2	896.3	1002.1	1152.5	1270.0	1302.9
105°	1461.7	1389.0	1338.6	1322.1	1338.6	1389.0	1461.7	1534.5	1573.2	1557.9	1425.3
107.5°	1724.7	1720.7	1710.6	1688.8	1710.6	1720.7	1724.7	1715.6	1658.8	1536.8	1337.2
110°	1767.9	1790.2	1800.8	1799.6	1800.8	1790.2	1767.9	1717.5	1621.2	1471.1	1261.1



TEST NUMBER: P331671-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1734.1	1771.4	1791.4	1797.7	1791.4	1771.4	1734.1	1664.0	1553.7	1393.2	1191.6
115°	1644.8	1698.7	1729.2	1739.8	1729.2	1698.7	1644.8	1561.5	1440.6	1287.0	1106.3
117.5°	1538.2	1595.2	1627.4	1636.3	1627.4	1595.2	1538.2	1453.3	1340.0	1200.6	1042.0
120°	1468.7	1523.9	1557.9	1569.6	1557.9	1523.9	1468.7	1386.6	1279.9	1155.5	1010.1
122.5°	1405.8	1460.1	1490.4	1500.2	1490.4	1460.1	1405.8	1332.2	1235.8	1118.0	984.7
125°	1328.0	1372.6	1401.9	1411.3	1401.9	1372.6	1328.0	1259.9	1171.9	1068.7	947.9
127.5°	1258.8	1300.5	1325.9	1333.4	1325.9	1300.5	1258.8	1199.4	1118.2	1020.9	911.5
130°	1216.6	1256.5	1279.9	1289.3	1279.9	1256.5	1216.6	1159.0	1081.7	989.0	888.1
132.5°	1173.4	1213.3	1234.9	1243.2	1234.9	1213.3	1173.4	1116.8	1044.1	959.0	865.6
135°	1105.1	1143.8	1164.9	1169.6	1164.9	1143.8	1105.1	1054.6	989.0	911.5	834.0
137.5°	1038.4	1071.8	1090.4	1097.3	1090.4	1071.8	1038.4	992.5	935.2	873.7	809.0
140°	992.5	1023.0	1040.6	1047.6	1040.6	1023.0	992.5	954.9	903.3	849.4	793.0
142.5°	953.0	980.8	996.4	997.8	996.4	980.8	953.0	917.4	874.2	827.8	779.9
145°	898.6	918.6	930.3	933.8	930.3	918.6	898.6	870.5	836.5	800.1	761.3
147.5°	854.0	870.0	878.0	880.1	878.0	870.0	854.0	830.8	806.0	777.6	747.1
150°	825.9	840.0	847.0	848.2	847.0	840.0	825.9	808.3	787.2	762.5	736.7
152.5°	803.3	815.6	820.7	820.9	820.7	815.6	803.3	789.5	771.2	750.3	726.4
155°	774.3	782.4	787.2	784.9	787.2	782.4	774.3	761.3	748.4	730.8	712.1
157.5°	745.2	751.9	754.1	754.1	754.1	751.9	745.2	736.0	725.9	711.1	695.4
160°	727.3	733.2	734.4	734.4	734.4	733.2	727.3	719.1	710.9	698.0	685.1
162.5°	711.3	715.4	716.5	715.6	716.5	715.4	711.3	703.2	696.8	685.8	674.8
165°	685.1	689.8	689.8	688.6	689.8	689.8	685.1	680.4	675.7	667.5	659.3
167.5°	662.8	665.4	665.2	663.8	665.2	665.4	662.8	660.8	656.5	650.9	644.5
170°	648.7	652.3	651.1	648.7	651.1	652.3	648.7	647.5	645.2	640.6	637.0
172.5°	637.5	639.1	637.9	636.5	637.9	639.1	637.5	636.3	634.9	631.2	628.5
175°	622.9	624.1	622.9	620.6	622.9	624.1	622.9	622.9	621.8	620.6	619.5
177.5°	613.8	613.8	612.9	611.0	612.9	613.8	613.8	613.8	613.8	612.9	612.9
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



TEST NUMBER: P331671-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1043.7	1047.9	1054.3	1057.9	1063.9	1067.8	1070.0	1073.9	1076.0	1083.6	1091.4
5°	985.4	991.5	1002.0	1011.8	1022.4	1033.3	1041.3	1050.3	1058.5	1072.9	1088.0
7.5°	918.6	927.0	943.3	959.0	977.3	992.8	1006.4	1021.9	1035.7	1056.2	1077.6
10°	868.5	883.2	904.7	919.4	943.5	959.0	980.5	997.4	1016.7	1043.9	1068.0
12.5°	825.4	843.1	860.4	880.8	902.5	928.3	951.9	973.6	996.5	1024.6	1052.9
15°	747.1	772.7	799.5	820.2	849.7	876.8	904.3	933.7	961.7	995.2	1032.2
17.5°	646.3	676.0	721.0	756.6	791.1	818.4	852.4	888.1	920.9	961.4	1002.5
20°	600.8	622.6	653.2	701.0	753.2	782.1	816.9	856.1	893.7	937.9	982.0
22.5°	564.2	583.7	608.2	645.5	703.7	743.3	779.4	819.3	863.0	908.1	956.9
25°	512.1	525.7	551.4	581.5	621.5	686.7	726.3	766.3	813.9	862.1	917.9
27.5°	473.0	485.2	501.9	530.7	560.4	607.2	670.2	713.8	761.1	815.5	873.4
30°	443.1	457.5	475.9	496.2	528.8	565.3	628.2	678.8	725.6	781.4	843.2
32.5°	421.4	432.7	448.5	469.2	496.1	531.2	581.5	642.9	688.4	747.3	811.8
35°	385.8	399.0	411.8	431.4	453.3	485.3	523.4	589.1	634.3	692.4	757.3
37.5°	356.5	364.6	378.7	394.3	417.3	441.2	474.2	533.1	582.1	639.0	705.5
40°	334.2	344.3	354.9	372.2	391.1	414.0	446.5	490.3	546.4	602.3	667.1
42.5°	312.5	325.3	336.5	348.1	368.7	391.7	418.2	455.2	512.6	565.4	628.5
45°	286.2	294.6	306.2	319.0	336.0	355.7	379.0	411.4	466.5	512.1	571.4
47.5°	255.8	267.9	275.5	288.0	304.2	322.9	344.6	372.6	417.3	460.0	514.9
50°	235.0	247.4	258.3	269.6	284.0	302.1	320.1	347.3	383.1	428.1	479.3
52.5°	217.1	228.1	238.7	250.0	264.1	280.6	297.8	321.6	352.3	393.6	443.4
55°	192.7	199.4	210.5	221.8	234.2	250.0	266.6	286.6	313.1	347.7	388.1
57.5°	167.6	175.5	184.2	195.6	208.1	220.4	235.2	253.4	274.2	305.6	340.1
60°	153.5	159.6	166.7	178.3	190.1	201.0	215.3	230.5	250.0	277.2	306.6
62.5°	137.8	143.5	150.1	160.3	171.7	181.7	194.2	210.3	226.8	251.6	277.3
65°	111.6	120.0	126.3	135.4	144.8	155.4	165.2	178.0	192.7	212.3	235.3
67.5°	92.5	96.7	102.7	111.0	120.6	129.7	139.0	149.0	161.7	176.8	195.1
70°	84.1	85.6	86.7	94.6	103.7	112.8	121.4	130.9	141.8	154.2	170.1
72.5°	74.1	75.6	77.1	80.5	87.8	96.7	105.7	112.8	123.1	133.4	146.2
75°	58.9	61.1	62.2	64.1	66.8	72.8	81.1	87.9	93.9	101.8	112.0
77.5°	44.8	46.0	47.3	49.3	50.9	53.7	58.4	64.5	70.2	74.7	81.8
80°	35.4	35.9	37.4	38.1	40.4	42.2	44.5	49.4	55.0	57.0	61.8
82.5°	26.7	27.1	28.3	29.1	30.1	31.7	34.5	35.9	40.3	42.7	45.8
85°	14.7	14.3	15.5	15.5	16.3	17.0	17.8	19.6	20.7	23.7	24.5
87.5°	12.2	12.5	12.5	11.2	9.5	9.0	8.6	8.4	8.5	8.5	9.0
90°	38.7	39.9	38.7	31.7	23.4	17.6	14.0	11.7	9.4	4.6	1.2
92.5°	128.9	152.5	150.4	117.0	79.8	53.2	42.2	34.2	29.1	20.6	14.3
95°	402.4	459.9	407.1	270.9	169.0	114.9	86.8	68.1	57.5	45.7	41.1
97.5°	823.5	785.1	591.3	365.1	222.9	155.1	123.2	101.6	85.6	73.2	66.9
100°	1095.7	926.8	638.1	384.8	241.7	179.5	146.6	123.2	104.4	93.8	90.3
102.5°	1197.1	931.5	620.4	385.8	258.5	201.1	168.2	143.8	125.0	114.5	111.9
105°	1181.3	869.3	585.4	391.8	287.4	232.3	199.4	173.6	156.0	147.8	143.1
107.5°	1078.3	802.6	568.0	408.0	317.0	263.5	230.5	204.8	188.6	180.7	176.9
110°	1013.6	770.7	564.3	421.1	336.7	285.1	251.1	226.4	211.2	204.1	199.4



TEST NUMBER: P331671-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	968.6	750.1	565.2	435.3	355.5	305.7	270.7	247.0	232.8	224.8	220.0
115°	912.7	727.3	570.2	456.4	384.8	334.4	302.7	279.2	265.1	258.1	252.3
117.5°	877.5	716.3	578.6	478.9	411.7	365.1	332.2	309.7	297.3	290.2	285.6
120°	858.7	709.7	584.2	493.9	430.5	384.8	351.9	328.5	317.9	310.8	306.2
122.5°	842.7	706.0	590.8	507.1	448.4	405.5	371.6	348.2	336.7	329.6	325.9
125°	820.0	699.2	600.7	528.0	475.1	432.9	400.0	376.6	362.5	355.5	351.9
127.5°	798.9	695.2	610.8	547.3	500.0	458.9	425.2	402.6	387.2	377.3	372.5
130°	784.9	693.3	618.2	559.6	515.0	473.9	441.1	417.7	401.2	389.5	384.8
132.5°	773.6	692.4	625.7	571.8	528.2	489.0	456.2	431.7	414.3	401.7	396.1
135°	757.8	690.9	634.7	587.7	546.6	509.2	476.3	449.3	431.7	417.7	412.9
137.5°	746.8	690.7	642.7	600.0	561.7	524.6	494.1	467.4	448.6	434.5	428.9
140°	740.2	689.8	646.4	606.5	570.2	534.9	504.4	478.7	459.9	445.8	441.1
142.5°	733.7	689.8	649.2	612.2	576.7	542.5	513.8	489.0	470.2	457.1	453.3
145°	725.0	687.4	652.3	619.5	586.5	554.9	529.1	505.6	488.1	476.3	471.6
147.5°	716.1	683.3	653.2	623.4	594.5	564.7	541.8	522.3	506.0	494.8	491.3
150°	708.5	680.4	652.3	625.3	598.3	571.3	550.2	532.6	517.4	508.0	504.4
152.5°	702.0	675.7	650.4	626.2	602.1	577.8	558.7	542.0	528.6	519.3	517.6
155°	689.8	667.5	647.5	627.6	607.6	587.7	570.2	557.2	544.3	537.2	536.1
157.5°	678.3	659.0	642.2	627.6	611.7	594.8	580.0	569.7	558.5	552.8	551.6
160°	669.8	653.5	639.3	627.6	613.6	599.5	586.5	577.1	567.7	563.1	561.9
162.5°	662.4	648.7	636.5	626.7	614.5	602.3	592.2	583.7	576.2	571.6	572.3
165°	649.9	639.3	631.2	624.1	615.9	605.3	598.3	592.4	585.4	583.1	584.2
167.5°	637.7	631.2	625.7	622.5	615.6	607.9	603.5	599.3	594.8	592.7	594.1
170°	631.2	626.4	622.9	620.6	614.7	608.8	605.3	603.0	599.5	598.3	600.7
172.5°	624.6	620.9	619.1	617.7	613.8	609.8	607.2	605.8	602.3	603.0	604.4
175°	615.9	614.7	613.6	614.7	612.4	610.1	608.8	608.8	606.5	607.6	608.8
177.5°	611.0	610.1	611.0	612.9	611.0	610.1	610.1	610.1	608.1	609.0	611.0
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



TEST NUMBER: P331671-840

CATALOG NUMBER: S122RDIP-S485D1080U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1091.7	1092.6	1098.6	1101.4	1106.8	1108.9	1111.3	1110.6	1110.6	1111.9	1120.3
5°	1094.0	1101.6	1112.9	1123.8	1134.4	1143.5	1149.4	1155.5	1157.7	1168.7	1178.5
7.5°	1090.1	1104.0	1122.7	1139.3	1159.3	1175.0	1187.9	1199.6	1207.6	1223.6	1239.8
10°	1085.0	1104.6	1125.7	1147.2	1174.8	1195.5	1216.6	1232.8	1238.1	1261.8	1275.5
12.5°	1074.7	1101.0	1127.8	1155.7	1182.6	1211.1	1234.4	1250.6	1269.2	1290.5	1315.6
15°	1059.3	1089.5	1124.6	1160.4	1198.9	1233.6	1258.5	1286.8	1307.1	1330.5	1352.3
17.5°	1037.2	1076.1	1120.6	1162.2	1206.6	1243.9	1278.2	1305.3	1319.6	1332.9	1336.3
20°	1019.8	1061.6	1114.0	1163.1	1207.5	1250.5	1284.4	1307.1	1310.9	1311.2	1291.2
22.5°	1000.8	1048.0	1102.9	1153.1	1206.3	1254.2	1280.5	1290.2	1275.3	1249.7	1211.0
25°	965.8	1020.5	1084.2	1141.6	1199.6	1244.9	1253.9	1237.0	1184.6	1129.4	1059.8
27.5°	928.0	989.4	1057.7	1121.5	1183.4	1211.4	1191.8	1130.6	1036.2	954.2	854.7
30°	900.2	969.2	1036.3	1107.6	1164.9	1177.0	1132.2	1042.0	931.9	808.2	709.0
32.5°	868.5	940.8	1014.6	1088.3	1136.3	1124.5	1050.4	939.4	810.3	688.7	594.9
35°	823.2	898.0	977.4	1051.4	1082.0	1031.1	920.2	775.8	643.8	530.3	465.7
37.5°	771.0	852.3	935.0	1002.9	1000.8	915.8	764.9	615.7	504.8	437.7	391.7
40°	733.9	816.1	905.4	962.8	938.3	827.8	664.1	523.4	442.3	388.8	355.3
42.5°	698.3	780.8	869.6	915.1	872.5	736.7	573.6	463.4	396.5	354.8	327.5
45°	637.7	724.8	807.1	832.3	756.1	606.4	463.8	384.0	339.4	308.5	289.6
47.5°	578.6	664.2	739.2	739.7	636.6	491.8	391.3	332.2	294.3	270.3	256.6
50°	542.3	623.8	686.7	676.9	560.1	437.5	349.9	299.0	267.4	248.9	234.6
52.5°	501.6	580.6	635.1	607.2	495.1	385.0	312.9	270.1	243.9	227.8	215.0
55°	442.3	512.5	551.0	508.8	403.9	320.1	264.4	230.8	211.2	197.6	186.7
57.5°	384.3	442.0	466.3	417.1	332.6	265.5	223.6	198.4	178.9	169.3	163.6
60°	347.7	397.1	414.0	359.8	289.2	232.3	198.0	174.6	160.3	153.9	148.2
62.5°	311.8	352.1	359.2	309.4	252.2	203.4	173.9	154.1	144.6	138.5	133.1
65°	258.7	287.7	284.4	244.4	199.4	161.4	139.9	127.8	120.7	112.0	102.6
67.5°	213.0	230.8	220.0	190.1	152.3	125.4	111.4	102.3	93.4	85.1	83.0
70°	184.0	194.2	182.9	155.4	124.8	105.2	93.9	83.0	77.7	75.8	72.4
72.5°	156.3	159.9	147.6	124.0	101.6	87.2	76.1	70.0	67.2	65.5	63.3
75°	117.2	114.6	104.1	85.6	70.5	60.7	57.4	55.0	53.2	51.7	50.5
77.5°	82.4	78.5	69.1	57.1	49.1	44.4	42.4	41.2	40.3	39.5	38.4
80°	61.8	59.2	49.8	40.7	37.4	35.0	33.9	32.4	32.4	31.7	30.5
82.5°	45.2	42.3	34.1	29.9	28.0	26.7	25.8	24.8	24.5	24.7	23.9
85°	23.7	19.2	17.0	16.3	15.0	14.3	14.7	13.9	13.9	13.9	13.5
87.5°	8.2	7.6	7.8	8.0	9.0	10.1	11.5	12.8	13.4	12.8	12.9
90°	4.6	9.4	11.7	14.0	17.6	23.4	31.7	38.7	39.9	38.7	37.6
92.5°	20.6	29.1	34.2	42.2	53.2	79.8	117.0	150.4	152.5	128.9	102.3
95°	45.7	57.5	68.1	86.8	114.9	169.0	270.9	407.1	459.9	402.4	307.4
97.5°	73.2	85.6	101.6	123.2	155.1	222.9	365.1	591.3	785.1	823.5	717.2
100°	93.8	104.4	123.2	146.6	179.5	241.7	384.8	638.1	926.8	1095.7	1071.1
102.5°	114.5	125.0	143.8	168.2	201.1	258.5	385.8	620.4	931.5	1197.1	1302.9
105°	147.8	156.0	173.6	199.4	232.3	287.4	391.8	585.4	869.3	1181.3	1425.3
107.5°	180.7	188.6	204.8	230.5	263.5	317.0	408.0	568.0	802.6	1078.3	1337.2
110°	204.1	211.2	226.4	251.1	285.1	336.7	421.1	564.3	770.7	1013.6	1261.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	224.8	232.8	247.0	270.7	305.7	355.5	435.3	565.2	750.1	968.6	1191.6
115°	258.1	265.1	279.2	302.7	334.4	384.8	456.4	570.2	727.3	912.7	1106.3
117.5°	290.2	297.3	309.7	332.2	365.1	411.7	478.9	578.6	716.3	877.5	1042.0
120°	310.8	317.9	328.5	351.9	384.8	430.5	493.9	584.2	709.7	858.7	1010.1
122.5°	329.6	336.7	348.2	371.6	405.5	448.4	507.1	590.8	706.0	842.7	984.7
125°	355.5	362.5	376.6	400.0	432.9	475.1	528.0	600.7	699.2	820.0	947.9
127.5°	377.3	387.2	402.6	425.2	458.9	500.0	547.3	610.8	695.2	798.9	911.5
130°	389.5	401.2	417.7	441.1	473.9	515.0	559.6	618.2	693.3	784.9	888.1
132.5°	401.7	414.3	431.7	456.2	489.0	528.2	571.8	625.7	692.4	773.6	865.6
135°	417.7	431.7	449.3	476.3	509.2	546.6	587.7	634.7	690.9	757.8	834.0
137.5°	434.5	448.6	467.4	494.1	524.6	561.7	600.0	642.7	690.7	746.8	809.0
140°	445.8	459.9	478.7	504.4	534.9	570.2	606.5	646.4	689.8	740.2	793.0
142.5°	457.1	470.2	489.0	513.8	542.5	576.7	612.2	649.2	689.8	733.7	779.9
145°	476.3	488.1	505.6	529.1	554.9	586.5	619.5	652.3	687.4	725.0	761.3
147.5°	494.8	506.0	522.3	541.8	564.7	594.5	623.4	653.2	683.3	716.1	747.1
150°	508.0	517.4	532.6	550.2	571.3	598.3	625.3	652.3	680.4	708.5	736.7
152.5°	519.3	528.6	542.0	558.7	577.8	602.1	626.2	650.4	675.7	702.0	726.4
155°	537.2	544.3	557.2	570.2	587.7	607.6	627.6	647.5	667.5	689.8	712.1
157.5°	552.8	558.5	569.7	580.0	594.8	611.7	627.6	642.2	659.0	678.3	695.4
160°	563.1	567.7	577.1	586.5	599.5	613.6	627.6	639.3	653.5	669.8	685.1
162.5°	571.6	576.2	583.7	592.2	602.3	614.5	626.7	636.5	648.7	662.4	674.8
165°	583.1	585.4	592.4	598.3	605.3	615.9	624.1	631.2	639.3	649.9	659.3
167.5°	592.7	594.8	599.3	603.5	607.9	615.6	622.5	625.7	631.2	637.7	644.5
170°	598.3	599.5	603.0	605.3	608.8	614.7	620.6	622.9	626.4	631.2	637.0
172.5°	603.0	602.3	605.8	607.2	609.8	613.8	617.7	619.1	620.9	624.6	628.5
175°	607.6	606.5	608.8	608.8	610.1	612.4	614.7	613.6	614.7	615.9	619.5
177.5°	609.0	608.1	610.1	610.1	610.1	611.0	612.9	611.0	610.1	611.0	612.9
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1123.4	1127.3	1129.1	1129.1	1131.3	1130.3	1129.4
5°	1187.9	1195.1	1196.6	1203.4	1208.3	1206.8	1207.5
7.5°	1252.1	1263.6	1275.1	1280.2	1281.1	1284.1	1285.3
10°	1291.6	1301.1	1318.8	1316.2	1329.4	1336.9	1324.4
12.5°	1329.7	1342.4	1354.7	1358.1	1365.5	1368.0	1363.0
15°	1364.0	1370.8	1371.6	1369.7	1372.0	1370.1	1362.9
17.5°	1331.9	1320.9	1298.6	1288.0	1279.6	1267.3	1262.3
20°	1278.8	1246.4	1208.7	1193.6	1175.9	1141.1	1149.4
22.5°	1164.2	1127.2	1089.5	1045.4	1024.4	991.5	989.6
25°	985.8	922.1	851.9	802.8	774.3	741.4	727.1
27.5°	766.5	686.2	628.7	599.7	573.1	547.1	546.0
30°	622.3	561.9	517.5	492.5	476.4	465.3	467.7
32.5°	524.5	483.1	453.1	432.5	420.5	412.2	412.1
35°	428.8	400.5	381.2	372.6	364.0	357.9	358.3
37.5°	367.0	349.9	339.2	329.7	324.3	321.3	319.6
40°	335.3	321.3	313.1	307.4	302.9	298.7	297.9
42.5°	310.2	298.7	290.3	285.9	281.8	278.7	278.0
45°	275.3	265.9	258.3	253.4	251.6	248.9	248.9
47.5°	244.9	235.6	229.7	226.6	223.4	221.7	221.6
50°	224.4	217.2	212.0	210.1	207.4	206.3	205.9
52.5°	206.0	200.7	196.8	195.6	194.4	193.0	193.2
55°	181.0	178.0	176.5	175.3	173.5	171.2	172.7
57.5°	160.0	157.4	153.3	149.8	148.0	146.4	147.0
60°	145.2	139.9	134.6	130.5	129.4	125.9	125.9
62.5°	126.5	119.1	112.6	110.3	109.2	107.6	107.2
65°	97.3	94.3	92.8	91.3	90.5	90.5	89.8
67.5°	80.6	79.4	77.8	77.4	76.6	76.4	76.1
70°	71.3	69.8	69.0	68.7	67.9	68.3	67.2
72.5°	62.2	61.0	60.9	59.9	59.5	59.5	58.7
75°	49.0	49.0	48.7	48.3	47.6	47.2	47.6
77.5°	37.7	37.8	37.1	37.1	37.0	37.1	36.7
80°	30.2	30.5	30.2	29.8	29.4	29.8	29.4
82.5°	23.8	23.3	23.2	23.1	23.1	22.8	22.8
85°	13.5	13.9	13.5	13.2	13.2	13.2	13.5
87.5°	12.1	12.6	12.8	12.8	12.8	12.8	12.5
90°	35.2	37.6	38.7	38.7	38.7	38.7	38.7
92.5°	87.8	77.9	70.6	69.7	65.9	66.9	65.0
95°	235.8	186.5	160.7	145.4	136.1	132.6	133.7
97.5°	586.8	459.9	375.2	319.1	290.2	273.1	263.3
100°	925.6	764.9	622.9	525.5	475.1	441.1	420.0
102.5°	1270.0	1152.5	1002.1	896.3	810.2	767.7	739.1
105°	1557.9	1573.2	1534.5	1461.7	1389.0	1338.6	1322.1
107.5°	1536.8	1658.8	1715.6	1724.7	1720.7	1710.6	1688.8
110°	1471.1	1621.2	1717.5	1767.9	1790.2	1800.8	1799.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1393.2	1553.7	1664.0	1734.1	1771.4	1791.4	1797.7
115°	1287.0	1440.6	1561.5	1644.8	1698.7	1729.2	1739.8
117.5°	1200.6	1340.0	1453.3	1538.2	1595.2	1627.4	1636.3
120°	1155.5	1279.9	1386.6	1468.7	1523.9	1557.9	1569.6
122.5°	1118.0	1235.8	1332.2	1405.8	1460.1	1490.4	1500.2
125°	1068.7	1171.9	1259.9	1328.0	1372.6	1401.9	1411.3
127.5°	1020.9	1118.2	1199.4	1258.8	1300.5	1325.9	1333.4
130°	989.0	1081.7	1159.0	1216.6	1256.5	1279.9	1289.3
132.5°	959.0	1044.1	1116.8	1173.4	1213.3	1234.9	1243.2
135°	911.5	989.0	1054.6	1105.1	1143.8	1164.9	1169.6
137.5°	873.7	935.2	992.5	1038.4	1071.8	1090.4	1097.3
140°	849.4	903.3	954.9	992.5	1023.0	1040.6	1047.6
142.5°	827.8	874.2	917.4	953.0	980.8	996.4	997.8
145°	800.1	836.5	870.5	898.6	918.6	930.3	933.8
147.5°	777.6	806.0	830.8	854.0	870.0	878.0	880.1
150°	762.5	787.2	808.3	825.9	840.0	847.0	848.2
152.5°	750.3	771.2	789.5	803.3	815.6	820.7	820.9
155°	730.8	748.4	761.3	774.3	782.4	787.2	784.9
157.5°	711.1	725.9	736.0	745.2	751.9	754.1	754.1
160°	698.0	710.9	719.1	727.3	733.2	734.4	734.4
162.5°	685.8	696.8	703.2	711.3	715.4	716.5	715.6
165°	667.5	675.7	680.4	685.1	689.8	689.8	688.6
167.5°	650.9	656.5	660.8	662.8	665.4	665.2	663.8
170°	640.6	645.2	647.5	648.7	652.3	651.1	648.7
172.5°	631.2	634.9	636.3	637.5	639.1	637.9	636.5
175°	620.6	621.8	622.9	622.9	624.1	622.9	620.6
177.5°	612.9	613.8	613.8	613.8	613.8	612.9	611.0
180°	610.1	610.1	610.1	610.1	610.1	610.1	610.1

(END OF REPORT)