

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: P331519-840

Luminaire Tested: **S122DIW-S485D1440U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331519-840
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-S485D1440U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7986.8 lumens
Efficiency: N/A
Efficacy: 131.8 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-Indirect

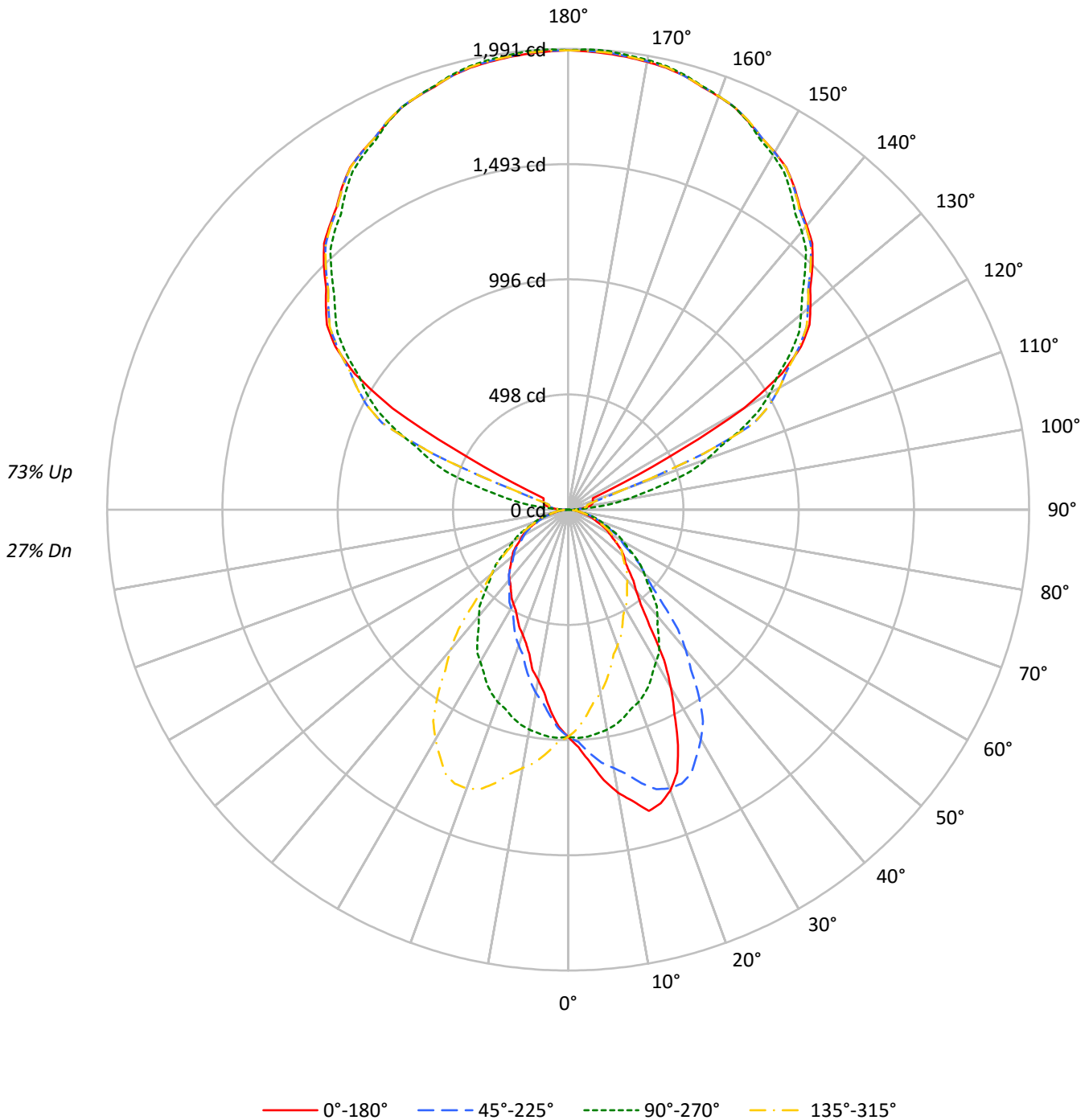
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331519-840

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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	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27				
1	93	89	85	82	83	80	77	74	62	60	58	46	45	44	31	31	30	23				
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20				
3	77	69	62	56	69	62	56	51	48	44	41	36	34	31	25	23	22	17				
4	71	61	53	48	63	55	48	43	43	39	35	32	29	27	22	21	19	15				
5	65	54	46	41	58	49	42	37	39	34	30	29	26	24	20	18	17	13				
6	60	48	41	35	53	44	37	32	35	30	26	26	23	21	19	17	15	12				
7	55	44	36	31	49	39	33	28	31	27	23	24	21	18	17	15	13	11				
8	51	40	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12	10				
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	14	12	11	9				
10	44	33	26	22	40	30	24	20	24	20	17	19	15	13	13	11	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15844	15844	15844	15844
5°	17763	15948	14131	15948
10°	20354	15816	12231	15816
15°	22519	15527	10805	15527
20°	22175	15216	9850	15216
25°	19996	14801	9246	14801
30°	16524	14139	8804	14139
35°	12043	13448	8489	13448
40°	9619	12631	8315	12631
45°	8405	11686	8079	11686
50°	7902	10771	7920	10771
55°	7282	9841	7707	9841
60°	6675	8854	7379	8854
65°	6082	7966	7060	7966
70°	5519	7105	6590	7105
75°	4897	6145	5833	6145
80°	4203	5086	4695	5086
85°	3779	3779	2779	3779



TEST NUMBER: P331519-840

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.2
10°-20°	271.7	3.4
20°-30°	394.3	4.9
30°-40°	416.1	5.2
40°-50°	368.4	4.6
50°-60°	294.0	3.7
60°-70°	199.8	2.5
70°-80°	102.5	1.3
80°-90°	29.6	0.4
90°-100°	66.2	0.8
100°-110°	242.8	3.0
110°-120°	649.0	8.1
120°-130°	1071.4	13.4
130°-140°	1139.4	14.3
140°-150°	1059.0	13.3
150°-160°	851.5	10.7
160°-170°	548.7	6.9
170°-180°	188.9	2.4
0°-30°	759.5	9.5
0°-40°	1175.6	14.7
0°-60°	1838.0	23.0
0°-90°	2169.9	27.2
90°-120°	958.1	12.0
90°-150°	4227.9	52.9
90°-180°	5817.0	72.8
0°-180°	7986.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	981	981	981	981	981	
5°	1096	984	872	984	1096	109
15°	1347	929	646	929	1347	372
25°	1122	831	519	831	1122	507
35°	611	682	431	682	611	397
45°	368	512	354	512	368	289
55°	259	350	274	350	259	232
65°	159	208	185	208	159	158
75°	78	98	94	98	78	84
85°	20	20	15	20	20	23
90°	39	1	39	1	39	18
95°	62	93	62	93	62	58
105°	109	437	109	437	109	114
115°	118	826	118	826	118	295
125°	1228	1168	1228	1168	1228	1063
135°	1492	1445	1492	1445	1492	1150
145°	1702	1676	1702	1676	1702	1064
155°	1847	1846	1847	1846	1847	852
165°	1940	1945	1940	1945	1940	548
175°	1978	1989	1978	1989	1978	188
180°	1985	1985	1985	1985	1985	



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1026.6	1026.9	1027.4	1022.7	1022.1	1022.1	1017.8	1014.2	1010.0	1004.2	1004.8
5°	1096.0	1100.1	1101.7	1097.1	1090.4	1089.5	1083.2	1072.6	1062.8	1054.9	1049.2
7.5°	1178.8	1180.4	1176.8	1170.8	1165.8	1156.7	1144.8	1133.1	1116.7	1101.7	1090.6
10°	1241.5	1243.9	1237.4	1228.7	1221.5	1211.0	1193.7	1175.9	1154.5	1133.7	1117.1
12.5°	1289.2	1294.8	1286.6	1285.5	1273.1	1258.7	1238.0	1229.0	1198.8	1169.9	1152.1
15°	1347.2	1346.8	1347.6	1340.4	1331.3	1329.1	1307.2	1283.4	1240.8	1223.9	1194.4
17.5°	1330.4	1336.2	1338.8	1338.7	1338.5	1337.1	1330.0	1315.0	1293.6	1266.2	1232.2
20°	1290.6	1298.1	1299.3	1308.0	1312.8	1319.3	1321.9	1317.8	1304.5	1281.5	1252.1
22.5°	1229.0	1231.1	1234.7	1248.2	1258.8	1274.9	1283.2	1297.2	1292.1	1280.9	1256.4
25°	1122.4	1118.6	1131.8	1138.6	1163.1	1188.7	1207.2	1227.6	1245.7	1256.7	1249.5
27.5°	994.3	988.7	1008.5	1026.4	1046.3	1074.1	1102.9	1136.9	1165.2	1200.6	1212.7
30°	886.3	889.7	908.6	927.8	958.0	997.1	1029.6	1066.9	1107.3	1146.9	1174.4
32.5°	769.8	782.8	794.8	824.3	850.8	894.5	942.1	988.8	1039.2	1084.1	1126.7
35°	611.0	626.0	642.7	664.2	701.5	744.9	791.2	854.2	922.9	984.3	1034.9
37.5°	514.2	511.9	521.4	536.9	567.1	602.2	655.5	717.8	798.6	870.8	942.1
40°	456.4	454.8	461.6	475.9	499.0	524.6	571.4	626.0	701.1	789.3	874.2
42.5°	416.5	417.4	421.2	431.3	447.1	468.2	503.2	549.8	618.4	701.6	792.7
45°	368.1	370.7	374.9	379.8	388.8	406.2	425.8	459.0	513.3	582.7	672.5
47.5°	333.3	333.4	337.5	341.8	347.2	357.0	373.0	393.8	432.1	488.7	565.8
50°	314.6	311.8	314.9	318.3	324.0	330.7	341.3	360.9	386.6	432.2	496.7
52.5°	291.6	291.6	294.4	295.7	300.7	307.5	317.2	330.7	354.0	389.7	442.7
55°	258.7	260.6	262.2	264.4	268.9	273.8	281.3	290.4	308.5	335.3	374.5
57.5°	227.8	228.4	229.9	234.2	237.1	241.6	248.7	257.0	268.7	288.6	318.1
60°	206.7	206.7	209.6	211.6	215.3	219.8	225.5	233.5	244.0	260.2	284.0
62.5°	187.3	187.0	188.2	191.4	194.2	198.4	204.1	210.9	220.8	235.2	254.7
65°	159.2	158.4	160.7	161.4	164.4	168.5	173.1	180.3	188.2	198.7	216.1
67.5°	132.0	132.9	134.1	135.5	137.2	141.6	144.6	149.7	156.3	165.1	176.9
70°	116.9	116.9	116.9	118.1	120.3	122.6	125.6	129.8	136.1	143.7	154.2
72.5°	100.0	101.2	102.4	101.8	104.6	105.9	109.6	111.9	118.1	122.9	132.2
75°	78.5	78.5	78.5	80.3	81.5	82.6	84.8	87.2	90.2	96.1	101.1
77.5°	58.6	58.4	58.8	59.2	60.4	61.8	62.4	64.5	67.3	70.1	74.2
80°	45.2	46.0	46.4	47.2	47.2	47.9	48.3	50.9	52.8	54.7	57.4
82.5°	35.0	35.1	35.2	35.3	35.6	36.2	37.1	38.0	38.6	40.2	42.2
85°	20.4	20.0	20.0	20.7	20.4	20.4	21.1	21.9	21.9	22.2	23.4
87.5°	15.6	15.5	15.7	15.2	15.0	15.1	14.8	14.2	14.2	14.2	13.9
90°	38.8	38.2	37.5	36.9	36.3	35.1	33.5	31.9	30.3	28.7	26.2
92.5°	38.8	38.4	38.0	37.7	37.3	36.7	35.9	34.9	34.1	33.3	32.0
95°	61.8	62.1	62.4	62.7	63.0	62.4	60.8	59.2	57.6	56.0	53.8
97.5°	82.4	82.1	81.7	81.3	80.9	80.1	78.8	77.6	76.2	74.9	69.8
100°	96.2	95.6	94.9	94.3	93.7	92.1	89.6	86.9	84.4	81.9	76.4
102.5°	103.1	102.2	101.3	100.5	99.6	97.5	94.1	90.8	87.5	84.1	129.6
105°	109.2	107.9	106.6	105.3	104.0	101.7	98.2	94.6	91.1	87.7	174.7
107.5°	112.3	111.1	109.8	108.5	107.2	108.4	111.9	115.5	119.1	122.7	227.1
110°	113.5	112.2	110.9	109.7	108.4	123.7	155.6	187.5	219.4	251.4	343.6



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	114.6	113.6	112.6	111.6	110.5	168.2	284.7	401.1	517.6	634.0	656.7
115°	117.8	140.8	163.7	186.7	209.6	295.1	442.8	590.7	738.4	886.2	878.2
117.5°	480.9	556.3	631.9	707.4	782.9	838.6	874.3	910.1	945.8	981.6	976.0
120°	876.2	919.2	962.3	1005.4	1048.4	1068.1	1064.3	1060.5	1056.6	1052.8	1047.0
122.5°	1093.3	1101.7	1110.0	1118.3	1126.7	1129.7	1127.5	1125.2	1122.9	1120.5	1114.3
125°	1228.0	1227.1	1226.1	1225.2	1224.2	1222.5	1220.3	1218.1	1215.9	1213.7	1207.6
127.5°	1313.0	1312.8	1312.6	1312.4	1312.3	1310.5	1307.3	1304.0	1300.8	1297.6	1293.0
130°	1365.8	1366.2	1366.5	1366.9	1367.2	1365.5	1362.1	1358.6	1355.0	1351.5	1348.0
132.5°	1417.5	1418.0	1418.3	1418.6	1418.9	1417.5	1414.5	1411.5	1408.6	1405.5	1402.0
135°	1492.3	1492.9	1493.6	1494.2	1494.8	1493.6	1490.4	1487.1	1484.0	1480.8	1477.9
137.5°	1560.3	1561.5	1562.6	1563.6	1564.7	1563.7	1560.5	1557.4	1554.3	1551.2	1547.9
140°	1602.9	1604.5	1606.1	1607.7	1609.2	1608.6	1605.8	1602.9	1600.0	1597.1	1593.7
142.5°	1644.3	1645.9	1647.4	1649.0	1650.6	1650.1	1647.5	1644.9	1642.2	1639.6	1635.6
145°	1702.0	1703.5	1705.2	1706.8	1708.4	1708.1	1705.8	1703.5	1701.3	1699.1	1693.6
147.5°	1752.8	1754.1	1755.5	1756.9	1758.2	1758.1	1756.4	1754.7	1753.0	1751.4	1746.1
150°	1783.8	1785.4	1787.1	1788.7	1790.2	1790.1	1788.2	1786.2	1784.3	1782.4	1777.3
152.5°	1810.3	1812.4	1814.5	1816.5	1818.7	1818.8	1816.8	1814.9	1813.0	1811.1	1806.2
155°	1847.0	1849.6	1852.2	1854.7	1857.2	1857.5	1855.6	1853.7	1851.8	1849.9	1846.1
157.5°	1880.7	1883.1	1885.6	1888.1	1890.6	1890.8	1888.5	1886.4	1884.3	1882.1	1879.4
160°	1900.2	1902.4	1904.6	1906.9	1909.1	1909.3	1907.3	1905.4	1903.5	1901.6	1899.7
162.5°	1916.3	1919.0	1921.8	1924.5	1927.2	1927.5	1925.4	1923.2	1921.1	1918.8	1917.2
165°	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3	1947.1	1944.9	1942.7	1940.4	1939.4
167.5°	1955.6	1958.5	1961.4	1964.3	1967.1	1967.4	1965.2	1963.0	1960.8	1958.5	1957.6
170°	1964.8	1967.7	1970.5	1973.5	1976.3	1976.6	1974.4	1972.2	1969.9	1967.7	1967.0
172.5°	1971.7	1974.6	1977.4	1980.3	1983.2	1983.5	1981.3	1979.0	1976.8	1974.6	1974.0
175°	1977.7	1981.0	1984.1	1987.3	1990.5	1990.9	1988.7	1986.5	1984.3	1982.1	1981.5
177.5°	1981.5	1983.8	1986.1	1988.3	1990.6	1990.9	1989.1	1987.3	1985.6	1983.8	1983.5
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1006.9	1004.5	1003.0	997.6	992.8	988.0	986.4	987.0	980.4	974.1	971.4
5°	1046.2	1038.6	1031.5	1021.3	1009.3	996.0	989.3	984.0	970.8	956.4	948.2
7.5°	1081.4	1070.6	1056.7	1037.6	1020.1	999.3	986.0	974.4	955.0	934.8	922.5
10°	1102.8	1088.0	1070.4	1046.9	1025.4	1000.2	982.5	964.7	942.1	918.0	902.9
12.5°	1121.2	1101.4	1083.9	1053.9	1028.4	996.8	975.8	950.9	927.1	898.4	883.5
15°	1165.0	1128.4	1095.2	1061.3	1030.0	985.8	962.5	928.9	897.6	862.1	845.2
17.5°	1198.8	1157.7	1105.5	1062.4	1025.8	976.9	942.6	902.4	865.4	824.9	801.8
20°	1218.2	1171.0	1114.8	1063.6	1019.8	964.0	926.7	885.6	842.1	796.5	771.6
22.5°	1229.6	1180.1	1124.5	1059.0	1007.7	953.4	906.5	861.4	817.4	768.2	742.0
25°	1233.2	1188.0	1129.1	1055.2	992.6	931.2	874.5	830.8	777.7	731.6	693.6
27.5°	1215.3	1182.9	1126.3	1048.1	975.2	903.3	840.3	790.7	734.6	684.7	646.3
30°	1193.3	1174.4	1119.3	1040.9	961.3	884.0	814.7	758.4	702.7	652.1	612.9
32.5°	1159.2	1155.1	1106.7	1030.7	946.5	859.6	787.8	730.9	669.1	619.5	582.1
35°	1092.2	1110.3	1079.7	1007.7	918.7	824.9	747.1	682.3	618.1	570.6	535.5
37.5°	1002.5	1047.4	1039.5	974.1	881.1	787.0	701.1	633.4	572.3	524.3	489.9
40°	940.6	997.9	1006.2	948.5	854.6	757.7	666.8	599.3	539.7	495.9	461.2
42.5°	874.2	941.2	964.0	917.8	825.7	726.9	636.0	566.1	507.2	464.5	433.8
45°	763.0	851.6	892.7	866.3	777.3	676.2	582.7	511.8	458.3	418.3	394.5
47.5°	658.9	755.8	811.1	801.7	723.5	623.4	531.0	462.9	410.8	378.9	357.6
50°	585.3	684.9	751.6	754.7	684.9	585.7	492.9	428.8	380.9	351.1	333.8
52.5°	521.4	616.4	689.2	705.2	641.8	546.4	458.8	395.1	352.8	325.5	309.9
55°	437.9	518.2	599.0	628.3	577.4	486.9	405.8	349.6	310.0	291.1	277.6
57.5°	364.1	431.0	505.5	538.1	506.6	429.2	353.1	304.4	272.3	255.7	245.3
60°	325.1	377.9	444.2	483.1	456.0	387.0	320.5	274.2	247.8	233.1	223.3
62.5°	288.9	335.7	391.7	427.3	412.5	347.4	288.0	247.0	224.3	210.5	203.4
65°	238.3	275.3	318.7	351.5	341.7	292.3	243.7	208.5	190.5	179.6	173.9
67.5°	196.2	223.0	253.1	281.8	273.9	238.8	199.9	172.5	159.0	149.6	146.2
70°	169.8	190.1	216.8	239.8	233.5	204.8	173.9	150.5	138.8	130.9	127.4
72.5°	144.4	161.1	181.6	200.4	196.0	172.2	146.4	128.8	119.8	112.5	109.7
75°	109.0	121.8	134.3	146.7	145.6	127.1	112.0	98.5	91.3	85.6	84.5
77.5°	80.5	87.7	96.1	103.5	101.5	90.9	79.1	71.3	66.0	62.2	61.6
80°	61.5	65.6	71.7	77.0	74.3	69.8	60.4	54.7	50.9	47.2	45.6
82.5°	44.5	48.8	52.3	55.2	53.2	49.0	43.1	39.3	37.1	34.4	33.8
85°	23.4	25.7	27.2	27.9	27.2	24.5	21.9	20.4	18.5	17.4	17.0
87.5°	13.7	13.2	12.7	12.7	11.1	10.4	8.5	7.0	7.4	7.8	7.8
90°	23.6	21.1	18.5	15.5	12.0	8.5	4.9	1.4	4.9	8.5	12.0
92.5°	30.8	29.5	28.2	27.8	28.1	28.4	28.7	29.0	28.7	28.4	28.1
95°	51.5	49.3	47.1	51.2	61.8	72.3	82.8	93.3	82.8	72.3	61.8
97.5°	64.6	59.5	54.3	66.6	96.2	125.9	155.6	185.3	155.6	125.9	96.2
100°	71.0	65.5	60.2	79.3	123.0	166.7	210.5	254.2	210.5	166.7	123.0
102.5°	174.9	220.4	265.7	293.1	302.3	311.5	320.8	330.0	320.8	311.5	302.3
105°	261.9	349.0	436.2	474.9	465.3	455.8	446.2	436.7	446.2	455.8	465.3
107.5°	331.6	436.2	540.7	589.1	581.3	573.6	565.8	558.2	565.8	573.6	581.3
110°	435.9	528.1	620.3	663.1	656.4	649.6	643.0	636.3	643.0	649.6	656.4



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	679.5	702.4	725.1	733.6	727.6	721.6	715.7	709.8	715.7	721.6	727.6
115°	870.2	862.2	854.2	847.6	842.1	836.7	831.3	825.9	831.3	836.7	842.1
117.5°	970.6	965.0	959.6	953.8	947.8	941.7	935.6	929.6	935.6	941.7	947.8
120°	1041.3	1035.5	1029.8	1024.5	1019.8	1014.9	1010.2	1005.4	1010.2	1014.9	1019.8
122.5°	1108.0	1101.8	1095.6	1089.9	1084.9	1079.8	1074.8	1069.8	1074.8	1079.8	1084.9
125°	1201.5	1195.5	1189.4	1184.3	1180.1	1176.0	1171.8	1167.7	1171.8	1176.0	1180.1
127.5°	1288.5	1283.9	1279.4	1274.9	1270.2	1265.7	1261.0	1256.5	1261.0	1265.7	1270.2
130°	1344.5	1341.0	1337.5	1333.2	1328.1	1322.9	1317.9	1312.7	1317.9	1322.9	1328.1
132.5°	1398.5	1395.0	1391.5	1387.6	1383.2	1378.9	1374.5	1370.2	1374.5	1378.9	1383.2
135°	1475.0	1472.2	1469.3	1465.3	1460.2	1455.1	1450.0	1444.9	1450.0	1455.1	1460.2
137.5°	1544.7	1541.4	1538.1	1534.7	1531.2	1527.6	1524.0	1520.5	1524.0	1527.6	1531.2
140°	1590.1	1586.6	1583.1	1580.0	1577.5	1575.0	1572.4	1569.8	1572.4	1575.0	1577.5
142.5°	1631.6	1627.6	1623.6	1620.4	1618.1	1615.8	1613.5	1611.2	1613.5	1615.8	1618.1
145°	1688.3	1682.8	1677.4	1674.9	1675.2	1675.5	1675.8	1676.2	1675.8	1675.5	1675.2
147.5°	1740.7	1735.3	1729.9	1727.9	1729.1	1730.3	1731.5	1732.7	1731.5	1730.3	1729.1
150°	1772.2	1767.1	1762.0	1760.5	1762.8	1765.0	1767.3	1769.5	1767.3	1765.0	1762.8
152.5°	1801.4	1796.5	1791.7	1790.6	1793.0	1795.5	1798.1	1800.5	1798.1	1795.5	1793.0
155°	1842.3	1838.5	1834.6	1834.1	1836.9	1839.9	1842.7	1845.6	1842.7	1839.9	1836.9
157.5°	1876.7	1874.0	1871.4	1871.3	1873.7	1876.1	1878.6	1881.0	1878.6	1876.1	1873.7
160°	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1899.7	1897.8	1895.9
162.5°	1915.5	1913.9	1912.2	1912.4	1914.3	1916.2	1918.1	1920.0	1918.1	1916.2	1914.3
165°	1938.4	1937.5	1936.6	1937.0	1938.9	1940.9	1942.8	1944.7	1942.8	1940.9	1938.9
167.5°	1956.7	1955.8	1954.9	1955.4	1957.3	1959.2	1961.2	1963.1	1961.2	1959.2	1957.3
170°	1966.4	1965.8	1965.1	1965.8	1967.7	1969.6	1971.6	1973.5	1971.6	1969.6	1967.7
172.5°	1973.3	1972.7	1972.1	1972.7	1974.6	1976.5	1978.4	1980.3	1978.4	1976.5	1974.6
175°	1980.7	1980.1	1979.5	1980.3	1982.6	1984.8	1987.0	1989.2	1987.0	1984.8	1982.6
177.5°	1983.3	1983.0	1982.8	1983.5	1985.3	1987.1	1988.9	1990.6	1988.9	1987.1	1985.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	968.4	966.5	960.2	956.8	951.5	946.3	943.0	944.5	945.7	945.1	944.2
5°	940.6	933.4	922.5	913.0	906.3	893.8	888.6	886.0	883.6	881.0	878.4
7.5°	907.6	896.3	880.6	867.2	854.4	839.0	830.2	824.9	819.4	813.4	808.2
10°	884.0	868.2	851.6	832.7	817.7	803.7	791.2	782.9	775.4	768.2	763.0
12.5°	859.3	841.0	820.5	794.8	778.1	758.1	756.3	741.6	729.8	725.4	719.2
15°	819.9	794.3	768.2	737.7	724.5	706.4	695.1	683.8	673.6	666.4	664.5
17.5°	775.2	741.9	716.1	694.2	672.6	654.0	643.6	634.5	626.1	616.5	615.3
20°	741.0	712.5	684.2	664.9	642.7	623.8	611.0	601.9	594.7	589.1	584.2
22.5°	708.8	677.4	651.6	630.5	608.5	593.3	583.2	574.5	568.6	562.3	557.6
25°	657.0	632.5	604.2	580.5	562.3	552.5	544.2	536.6	532.9	528.8	523.5
27.5°	611.7	584.4	558.0	539.6	523.6	514.9	509.1	503.9	500.4	498.0	494.9
30°	579.7	552.1	531.4	513.3	500.1	491.4	487.7	484.6	480.5	479.0	477.5
32.5°	548.9	524.1	506.3	490.7	478.1	472.4	469.0	466.3	463.0	461.5	458.5
35°	505.3	484.6	467.3	458.6	448.4	443.5	440.9	437.1	434.1	432.6	432.2
37.5°	464.4	446.4	434.9	423.8	419.5	416.5	412.9	410.3	409.4	409.2	408.8
40°	437.9	423.1	412.9	403.9	402.0	397.5	394.5	392.2	392.2	392.6	392.2
42.5°	413.7	400.5	391.5	383.7	381.5	378.8	375.8	375.7	376.3	377.5	376.3
45°	377.2	367.7	361.3	357.5	353.4	350.7	350.3	351.5	351.8	352.2	353.4
47.5°	343.5	337.2	331.4	327.3	325.5	325.0	324.6	326.5	328.3	329.0	330.7
50°	323.6	316.4	311.5	308.9	307.4	306.6	307.4	309.6	311.1	313.1	314.2
52.5°	301.2	296.2	292.9	290.7	290.1	290.6	290.7	293.4	295.8	296.4	297.0
55°	270.4	266.6	265.9	262.5	264.0	263.6	265.5	267.0	269.2	271.6	272.0
57.5°	239.6	236.6	234.6	234.9	235.3	237.0	238.5	241.3	243.7	246.0	246.3
60°	219.1	217.6	216.5	216.5	217.2	219.5	221.4	224.0	225.5	227.0	228.1
62.5°	200.5	198.9	197.7	198.3	200.4	201.7	203.9	205.3	206.8	208.3	208.8
65°	170.9	170.1	171.3	172.0	172.4	174.2	176.9	178.0	179.6	180.3	182.9
67.5°	143.6	143.8	143.6	144.7	146.8	147.3	149.8	152.5	152.8	154.2	155.9
70°	125.2	125.9	126.7	127.4	129.4	130.1	132.0	133.1	134.6	135.7	136.9
72.5°	108.4	108.5	109.3	109.1	110.7	112.3	113.9	115.0	116.5	118.0	119.1
75°	83.3	83.3	84.1	84.5	86.3	88.3	87.9	88.7	90.2	91.7	92.4
77.5°	60.9	60.1	60.9	61.2	61.8	63.4	63.7	64.8	66.6	66.0	66.9
80°	46.4	45.2	46.4	46.8	46.8	48.7	48.7	49.4	50.5	49.4	50.5
82.5°	33.1	32.6	33.4	33.5	34.1	34.1	34.7	34.9	36.1	35.5	36.1
85°	16.6	16.3	16.6	16.3	16.6	17.0	17.0	16.6	16.6	17.4	16.3
87.5°	8.2	8.5	8.8	9.3	9.5	9.7	9.7	10.0	10.3	10.0	10.3
90°	15.5	18.5	21.1	23.6	26.2	28.7	30.3	31.9	33.5	35.1	36.3
92.5°	27.8	28.2	29.5	30.8	32.0	33.3	34.1	34.9	35.9	36.7	37.3
95°	51.2	47.1	49.3	51.5	53.8	56.0	57.6	59.2	60.8	62.4	63.0
97.5°	66.6	54.3	59.5	64.6	69.8	74.9	76.2	77.6	78.8	80.1	80.9
100°	79.3	60.2	65.5	71.0	76.4	81.9	84.4	86.9	89.6	92.1	93.7
102.5°	293.1	265.7	220.4	174.9	129.6	84.1	87.5	90.8	94.1	97.5	99.6
105°	474.9	436.2	349.0	261.9	174.7	87.7	91.1	94.6	98.2	101.7	104.0
107.5°	589.1	540.7	436.2	331.6	227.1	122.7	119.1	115.5	111.9	108.4	107.2
110°	663.1	620.3	528.1	435.9	343.6	251.4	219.4	187.5	155.6	123.7	108.4



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	733.6	725.1	702.4	679.5	656.7	634.0	517.6	401.1	284.7	168.2	110.5
115°	847.6	854.2	862.2	870.2	878.2	886.2	738.4	590.7	442.8	295.1	209.6
117.5°	953.8	959.6	965.0	970.6	976.0	981.6	945.8	910.1	874.3	838.6	782.9
120°	1024.5	1029.8	1035.5	1041.3	1047.0	1052.8	1056.6	1060.5	1064.3	1068.1	1048.4
122.5°	1089.9	1095.6	1101.8	1108.0	1114.3	1120.5	1122.9	1125.2	1127.5	1129.7	1126.7
125°	1184.3	1189.4	1195.5	1201.5	1207.6	1213.7	1215.9	1218.1	1220.3	1222.5	1224.2
127.5°	1274.9	1279.4	1283.9	1288.5	1293.0	1297.6	1300.8	1304.0	1307.3	1310.5	1312.3
130°	1333.2	1337.5	1341.0	1344.5	1348.0	1351.5	1355.0	1358.6	1362.1	1365.5	1367.2
132.5°	1387.6	1391.5	1395.0	1398.5	1402.0	1405.5	1408.6	1411.5	1414.5	1417.5	1418.9
135°	1465.3	1469.3	1472.2	1475.0	1477.9	1480.8	1484.0	1487.1	1490.4	1493.6	1494.8
137.5°	1534.7	1538.1	1541.4	1544.7	1547.9	1551.2	1554.3	1557.4	1560.5	1563.7	1564.7
140°	1580.0	1583.1	1586.6	1590.1	1593.7	1597.1	1600.0	1602.9	1605.8	1608.6	1609.2
142.5°	1620.4	1623.6	1627.6	1631.6	1635.6	1639.6	1642.2	1644.9	1647.5	1650.1	1650.6
145°	1674.9	1677.4	1682.8	1688.3	1693.6	1699.1	1701.3	1703.5	1705.8	1708.1	1708.4
147.5°	1727.9	1729.9	1735.3	1740.7	1746.1	1751.4	1753.0	1754.7	1756.4	1758.1	1758.2
150°	1760.5	1762.0	1767.1	1772.2	1777.3	1782.4	1784.3	1786.2	1788.2	1790.1	1790.2
152.5°	1790.6	1791.7	1796.5	1801.4	1806.2	1811.1	1813.0	1814.9	1816.8	1818.8	1818.7
155°	1834.1	1834.6	1838.5	1842.3	1846.1	1849.9	1851.8	1853.7	1855.6	1857.5	1857.2
157.5°	1871.3	1871.4	1874.0	1876.7	1879.4	1882.1	1884.3	1886.4	1888.5	1890.8	1890.6
160°	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1903.5	1905.4	1907.3	1909.3	1909.1
162.5°	1912.4	1912.2	1913.9	1915.5	1917.2	1918.8	1921.1	1923.2	1925.4	1927.5	1927.2
165°	1937.0	1936.6	1937.5	1938.4	1939.4	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3
167.5°	1955.4	1954.9	1955.8	1956.7	1957.6	1958.5	1960.8	1963.0	1965.2	1967.4	1967.1
170°	1965.8	1965.1	1965.8	1966.4	1967.0	1967.7	1969.9	1972.2	1974.4	1976.6	1976.3
172.5°	1972.7	1972.1	1972.7	1973.3	1974.0	1974.6	1976.8	1979.0	1981.3	1983.5	1983.2
175°	1980.3	1979.5	1980.1	1980.7	1981.5	1982.1	1984.3	1986.5	1988.7	1990.9	1990.5
177.5°	1983.5	1982.8	1983.0	1983.3	1983.5	1983.8	1985.6	1987.3	1989.1	1990.9	1990.6
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	941.2	940.6	940.6	937.9	940.6	940.6	941.2	944.2	945.1	945.7	944.5
5°	873.1	871.9	870.1	871.9	870.1	871.9	873.1	878.4	881.0	883.6	886.0
7.5°	805.8	801.2	800.5	796.1	800.5	801.2	805.8	808.2	813.4	819.4	824.9
10°	756.6	753.6	753.2	746.0	753.2	753.6	756.6	763.0	768.2	775.4	782.9
12.5°	719.1	711.9	713.4	709.2	713.4	711.9	719.1	719.2	725.4	729.8	741.6
15°	654.3	654.3	652.9	646.4	652.9	654.3	654.3	664.5	666.4	673.6	683.8
17.5°	607.8	607.0	603.4	605.2	603.4	607.0	607.8	615.3	616.5	626.1	634.5
20°	580.1	577.7	573.3	573.3	573.3	577.7	580.1	584.2	589.1	594.7	601.9
22.5°	553.8	553.6	548.9	550.4	548.9	553.6	553.8	557.6	562.3	568.6	574.5
25°	523.1	520.1	517.9	519.0	517.9	520.1	523.1	523.5	528.8	532.9	536.6
27.5°	494.0	492.3	492.2	489.1	492.2	492.3	494.0	494.9	498.0	500.4	503.9
30°	477.1	473.3	474.0	472.2	474.0	473.3	477.1	477.5	479.0	480.5	484.6
32.5°	457.8	456.5	455.7	454.0	455.7	456.5	457.8	458.5	461.5	463.0	466.3
35°	431.4	431.8	429.9	430.7	429.9	431.8	431.4	432.2	432.6	434.1	437.1
37.5°	408.5	409.7	408.8	409.0	408.8	409.7	408.5	408.8	409.2	409.4	410.3
40°	393.3	393.3	393.3	394.5	393.3	393.3	393.3	392.2	392.6	392.2	392.2
42.5°	378.9	378.3	377.7	377.6	377.7	378.3	378.9	376.3	377.5	376.3	375.7
45°	354.2	355.3	355.7	353.8	355.7	355.3	354.2	353.4	352.2	351.8	351.5
47.5°	331.7	331.8	331.7	333.4	331.7	331.8	331.7	330.7	329.0	328.3	326.5
50°	316.1	315.3	316.1	315.3	316.1	315.3	316.1	314.2	313.1	311.1	309.6
52.5°	299.4	299.6	299.1	299.0	299.1	299.6	299.4	297.0	296.4	295.8	293.4
55°	273.5	274.2	273.8	273.8	273.8	274.2	273.5	272.0	271.6	269.2	267.0
57.5°	246.5	247.2	247.7	246.0	247.7	247.2	246.5	246.3	246.0	243.7	241.3
60°	227.8	229.6	229.3	228.5	229.3	229.6	227.8	228.1	227.0	225.5	224.0
62.5°	210.6	211.3	211.2	211.1	211.2	211.3	210.6	208.8	208.3	206.8	205.3
65°	184.0	184.8	183.7	184.8	183.7	184.8	184.0	182.9	180.3	179.6	178.0
67.5°	155.4	155.7	156.5	157.0	156.5	155.7	155.4	155.9	154.2	152.8	152.5
70°	137.6	137.2	138.5	139.6	138.5	137.2	137.6	136.9	135.7	134.6	133.1
72.5°	119.0	119.8	119.4	120.3	119.4	119.8	119.0	119.1	118.0	116.5	115.0
75°	91.7	92.8	92.4	93.5	92.4	92.8	91.7	92.4	91.7	90.2	88.7
77.5°	66.2	66.3	66.2	66.9	66.2	66.3	66.2	66.9	66.0	66.6	64.8
80°	50.5	49.8	49.0	50.5	49.0	49.8	50.5	50.5	49.4	50.5	49.4
82.5°	35.1	35.6	34.8	34.8	34.8	35.6	35.1	36.1	35.5	36.1	34.9
85°	16.3	15.9	15.0	15.0	15.0	15.9	16.3	16.3	17.4	16.6	16.6
87.5°	10.4	10.2	10.3	10.2	10.3	10.2	10.4	10.3	10.0	10.3	10.0
90°	36.9	37.5	38.2	38.8	38.2	37.5	36.9	36.3	35.1	33.5	31.9
92.5°	37.7	38.0	38.4	38.8	38.4	38.0	37.7	37.3	36.7	35.9	34.9
95°	62.7	62.4	62.1	61.8	62.1	62.4	62.7	63.0	62.4	60.8	59.2
97.5°	81.3	81.7	82.1	82.4	82.1	81.7	81.3	80.9	80.1	78.8	77.6
100°	94.3	94.9	95.6	96.2	95.6	94.9	94.3	93.7	92.1	89.6	86.9
102.5°	100.5	101.3	102.2	103.1	102.2	101.3	100.5	99.6	97.5	94.1	90.8
105°	105.3	106.6	107.9	109.2	107.9	106.6	105.3	104.0	101.7	98.2	94.6
107.5°	108.5	109.8	111.1	112.3	111.1	109.8	108.5	107.2	108.4	111.9	115.5
110°	109.7	110.9	112.2	113.5	112.2	110.9	109.7	108.4	123.7	155.6	187.5



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	111.6	112.6	113.6	114.6	113.6	112.6	111.6	110.5	168.2	284.7	401.1
115°	186.7	163.7	140.8	117.8	140.8	163.7	186.7	209.6	295.1	442.8	590.7
117.5°	707.4	631.9	556.3	480.9	556.3	631.9	707.4	782.9	838.6	874.3	910.1
120°	1005.4	962.3	919.2	876.2	919.2	962.3	1005.4	1048.4	1068.1	1064.3	1060.5
122.5°	1118.3	1110.0	1101.7	1093.3	1101.7	1110.0	1118.3	1126.7	1129.7	1127.5	1125.2
125°	1225.2	1226.1	1227.1	1228.0	1227.1	1226.1	1225.2	1224.2	1222.5	1220.3	1218.1
127.5°	1312.4	1312.6	1312.8	1313.0	1312.8	1312.6	1312.4	1312.3	1310.5	1307.3	1304.0
130°	1366.9	1366.5	1366.2	1365.8	1366.2	1366.5	1366.9	1367.2	1365.5	1362.1	1358.6
132.5°	1418.6	1418.3	1418.0	1417.5	1418.0	1418.3	1418.6	1418.9	1417.5	1414.5	1411.5
135°	1494.2	1493.6	1492.9	1492.3	1492.9	1493.6	1494.2	1494.8	1493.6	1490.4	1487.1
137.5°	1563.6	1562.6	1561.5	1560.3	1561.5	1562.6	1563.6	1564.7	1563.7	1560.5	1557.4
140°	1607.7	1606.1	1604.5	1602.9	1604.5	1606.1	1607.7	1609.2	1608.6	1605.8	1602.9
142.5°	1649.0	1647.4	1645.9	1644.3	1645.9	1647.4	1649.0	1650.6	1650.1	1647.5	1644.9
145°	1706.8	1705.2	1703.5	1702.0	1703.5	1705.2	1706.8	1708.4	1708.1	1705.8	1703.5
147.5°	1756.9	1755.5	1754.1	1752.8	1754.1	1755.5	1756.9	1758.2	1758.1	1756.4	1754.7
150°	1788.7	1787.1	1785.4	1783.8	1785.4	1787.1	1788.7	1790.2	1790.1	1788.2	1786.2
152.5°	1816.5	1814.5	1812.4	1810.3	1812.4	1814.5	1816.5	1818.7	1818.8	1816.8	1814.9
155°	1854.7	1852.2	1849.6	1847.0	1849.6	1852.2	1854.7	1857.2	1857.5	1855.6	1853.7
157.5°	1888.1	1885.6	1883.1	1880.7	1883.1	1885.6	1888.1	1890.6	1890.8	1888.5	1886.4
160°	1906.9	1904.6	1902.4	1900.2	1902.4	1904.6	1906.9	1909.1	1909.3	1907.3	1905.4
162.5°	1924.5	1921.8	1919.0	1916.3	1919.0	1921.8	1924.5	1927.2	1927.5	1925.4	1923.2
165°	1947.1	1944.9	1942.7	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3	1947.1	1944.9
167.5°	1964.3	1961.4	1958.5	1955.6	1958.5	1961.4	1964.3	1967.1	1967.4	1965.2	1963.0
170°	1973.5	1970.5	1967.7	1964.8	1967.7	1970.5	1973.5	1976.3	1976.6	1974.4	1972.2
172.5°	1980.3	1977.4	1974.6	1971.7	1974.6	1977.4	1980.3	1983.2	1983.5	1981.3	1979.0
175°	1987.3	1984.1	1981.0	1977.7	1981.0	1984.1	1987.3	1990.5	1990.9	1988.7	1986.5
177.5°	1988.3	1986.1	1983.8	1981.5	1983.8	1986.1	1988.3	1990.6	1990.9	1989.1	1987.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	943.0	946.3	951.5	956.8	960.2	966.5	968.4	971.4	974.1	980.4	987.0
5°	888.6	893.8	906.3	913.0	922.5	933.4	940.6	948.2	956.4	970.8	984.0
7.5°	830.2	839.0	854.4	867.2	880.6	896.3	907.6	922.5	934.8	955.0	974.4
10°	791.2	803.7	817.7	832.7	851.6	868.2	884.0	902.9	918.0	942.1	964.7
12.5°	756.3	758.1	778.1	794.8	820.5	841.0	859.3	883.5	898.4	927.1	950.9
15°	695.1	706.4	724.5	737.7	768.2	794.3	819.9	845.2	862.1	897.6	928.9
17.5°	643.6	654.0	672.6	694.2	716.1	741.9	775.2	801.8	824.9	865.4	902.4
20°	611.0	623.8	642.7	664.9	684.2	712.5	741.0	771.6	796.5	842.1	885.6
22.5°	583.2	593.3	608.5	630.5	651.6	677.4	708.8	742.0	768.2	817.4	861.4
25°	544.2	552.5	562.3	580.5	604.2	632.5	657.0	693.6	731.6	777.7	830.8
27.5°	509.1	514.9	523.6	539.6	558.0	584.4	611.7	646.3	684.7	734.6	790.7
30°	487.7	491.4	500.1	513.3	531.4	552.1	579.7	612.9	652.1	702.7	758.4
32.5°	469.0	472.4	478.1	490.7	506.3	524.1	548.9	582.1	619.5	669.1	730.9
35°	440.9	443.5	448.4	458.6	467.3	484.6	505.3	535.5	570.6	618.1	682.3
37.5°	412.9	416.5	419.5	423.8	434.9	446.4	464.4	489.9	524.3	572.3	633.4
40°	394.5	397.5	402.0	403.9	412.9	423.1	437.9	461.2	495.9	539.7	599.3
42.5°	375.8	378.8	381.5	383.7	391.5	400.5	413.7	433.8	464.5	507.2	566.1
45°	350.3	350.7	353.4	357.5	361.3	367.7	377.2	394.5	418.3	458.3	511.8
47.5°	324.6	325.0	325.5	327.3	331.4	337.2	343.5	357.6	378.9	410.8	462.9
50°	307.4	306.6	307.4	308.9	311.5	316.4	323.6	333.8	351.1	380.9	428.8
52.5°	290.7	290.6	290.1	290.7	292.9	296.2	301.2	309.9	325.5	352.8	395.1
55°	265.5	263.6	264.0	262.5	265.9	266.6	270.4	277.6	291.1	310.0	349.6
57.5°	238.5	237.0	235.3	234.9	234.6	236.6	239.6	245.3	255.7	272.3	304.4
60°	221.4	219.5	217.2	216.5	216.5	217.6	219.1	223.3	233.1	247.8	274.2
62.5°	203.9	201.7	200.4	198.3	197.7	198.9	200.5	203.4	210.5	224.3	247.0
65°	176.9	174.2	172.4	172.0	171.3	170.1	170.9	173.9	179.6	190.5	208.5
67.5°	149.8	147.3	146.8	144.7	143.6	143.8	143.6	146.2	149.6	159.0	172.5
70°	132.0	130.1	129.4	127.4	126.7	125.9	125.2	127.4	130.9	138.8	150.5
72.5°	113.9	112.3	110.7	109.1	109.3	108.5	108.4	109.7	112.5	119.8	128.8
75°	87.9	88.3	86.3	84.5	84.1	83.3	83.3	84.5	85.6	91.3	98.5
77.5°	63.7	63.4	61.8	61.2	60.9	60.1	60.9	61.6	62.2	66.0	71.3
80°	48.7	48.7	46.8	46.8	46.4	45.2	46.4	45.6	47.2	50.9	54.7
82.5°	34.7	34.1	34.1	33.5	33.4	32.6	33.1	33.8	34.4	37.1	39.3
85°	17.0	17.0	16.6	16.3	16.6	16.3	16.6	17.0	17.4	18.5	20.4
87.5°	9.7	9.7	9.5	9.3	8.8	8.5	8.2	7.8	7.8	7.4	7.0
90°	30.3	28.7	26.2	23.6	21.1	18.5	15.5	12.0	8.5	4.9	1.4
92.5°	34.1	33.3	32.0	30.8	29.5	28.2	27.8	28.1	28.4	28.7	29.0
95°	57.6	56.0	53.8	51.5	49.3	47.1	51.2	61.8	72.3	82.8	93.3
97.5°	76.2	74.9	69.8	64.6	59.5	54.3	66.6	96.2	125.9	155.6	185.3
100°	84.4	81.9	76.4	71.0	65.5	60.2	79.3	123.0	166.7	210.5	254.2
102.5°	87.5	84.1	129.6	174.9	220.4	265.7	293.1	302.3	311.5	320.8	330.0
105°	91.1	87.7	174.7	261.9	349.0	436.2	474.9	465.3	455.8	446.2	436.7
107.5°	119.1	122.7	227.1	331.6	436.2	540.7	589.1	581.3	573.6	565.8	558.2
110°	219.4	251.4	343.6	435.9	528.1	620.3	663.1	656.4	649.6	643.0	636.3



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	517.6	634.0	656.7	679.5	702.4	725.1	733.6	727.6	721.6	715.7	709.8
115°	738.4	886.2	878.2	870.2	862.2	854.2	847.6	842.1	836.7	831.3	825.9
117.5°	945.8	981.6	976.0	970.6	965.0	959.6	953.8	947.8	941.7	935.6	929.6
120°	1056.6	1052.8	1047.0	1041.3	1035.5	1029.8	1024.5	1019.8	1014.9	1010.2	1005.4
122.5°	1122.9	1120.5	1114.3	1108.0	1101.8	1095.6	1089.9	1084.9	1079.8	1074.8	1069.8
125°	1215.9	1213.7	1207.6	1201.5	1195.5	1189.4	1184.3	1180.1	1176.0	1171.8	1167.7
127.5°	1300.8	1297.6	1293.0	1288.5	1283.9	1279.4	1274.9	1270.2	1265.7	1261.0	1256.5
130°	1355.0	1351.5	1348.0	1344.5	1341.0	1337.5	1333.2	1328.1	1322.9	1317.9	1312.7
132.5°	1408.6	1405.5	1402.0	1398.5	1395.0	1391.5	1387.6	1383.2	1378.9	1374.5	1370.2
135°	1484.0	1480.8	1477.9	1475.0	1472.2	1469.3	1465.3	1460.2	1455.1	1450.0	1444.9
137.5°	1554.3	1551.2	1547.9	1544.7	1541.4	1538.1	1534.7	1531.2	1527.6	1524.0	1520.5
140°	1600.0	1597.1	1593.7	1590.1	1586.6	1583.1	1580.0	1577.5	1575.0	1572.4	1569.8
142.5°	1642.2	1639.6	1635.6	1631.6	1627.6	1623.6	1620.4	1618.1	1615.8	1613.5	1611.2
145°	1701.3	1699.1	1693.6	1688.3	1682.8	1677.4	1674.9	1675.2	1675.5	1675.8	1676.2
147.5°	1753.0	1751.4	1746.1	1740.7	1735.3	1729.9	1727.9	1729.1	1730.3	1731.5	1732.7
150°	1784.3	1782.4	1777.3	1772.2	1767.1	1762.0	1760.5	1762.8	1765.0	1767.3	1769.5
152.5°	1813.0	1811.1	1806.2	1801.4	1796.5	1791.7	1790.6	1793.0	1795.5	1798.1	1800.5
155°	1851.8	1849.9	1846.1	1842.3	1838.5	1834.6	1834.1	1836.9	1839.9	1842.7	1845.6
157.5°	1884.3	1882.1	1879.4	1876.7	1874.0	1871.4	1871.3	1873.7	1876.1	1878.6	1881.0
160°	1903.5	1901.6	1899.7	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6
162.5°	1921.1	1918.8	1917.2	1915.5	1913.9	1912.2	1912.4	1914.3	1916.2	1918.1	1920.0
165°	1942.7	1940.4	1939.4	1938.4	1937.5	1936.6	1937.0	1938.9	1940.9	1942.8	1944.7
167.5°	1960.8	1958.5	1957.6	1956.7	1955.8	1954.9	1955.4	1957.3	1959.2	1961.2	1963.1
170°	1969.9	1967.7	1967.0	1966.4	1965.8	1965.1	1965.8	1967.7	1969.6	1971.6	1973.5
172.5°	1976.8	1974.6	1974.0	1973.3	1972.7	1972.1	1972.7	1974.6	1976.5	1978.4	1980.3
175°	1984.3	1982.1	1981.5	1980.7	1980.1	1979.5	1980.3	1982.6	1984.8	1987.0	1989.2
177.5°	1985.6	1983.8	1983.5	1983.3	1983.0	1982.8	1983.5	1985.3	1987.1	1988.9	1990.6
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	986.4	988.0	992.8	997.6	1003.0	1004.5	1006.9	1004.8	1004.2	1010.0	1014.2
5°	989.3	996.0	1009.3	1021.3	1031.5	1038.6	1046.2	1049.2	1054.9	1062.8	1072.6
7.5°	986.0	999.3	1020.1	1037.6	1056.7	1070.6	1081.4	1090.6	1101.7	1116.7	1133.1
10°	982.5	1000.2	1025.4	1046.9	1070.4	1088.0	1102.8	1117.1	1133.7	1154.5	1175.9
12.5°	975.8	996.8	1028.4	1053.9	1083.9	1101.4	1121.2	1152.1	1169.9	1198.8	1229.0
15°	962.5	985.8	1030.0	1061.3	1095.2	1128.4	1165.0	1194.4	1223.9	1240.8	1283.4
17.5°	942.6	976.9	1025.8	1062.4	1105.5	1157.7	1198.8	1232.2	1266.2	1293.6	1315.0
20°	926.7	964.0	1019.8	1063.6	1114.8	1171.0	1218.2	1252.1	1281.5	1304.5	1317.8
22.5°	906.5	953.4	1007.7	1059.0	1124.5	1180.1	1229.6	1256.4	1280.9	1292.1	1297.2
25°	874.5	931.2	992.6	1055.2	1129.1	1188.0	1233.2	1249.5	1256.7	1245.7	1227.6
27.5°	840.3	903.3	975.2	1048.1	1126.3	1182.9	1215.3	1212.7	1200.6	1165.2	1136.9
30°	814.7	884.0	961.3	1040.9	1119.3	1174.4	1193.3	1174.4	1146.9	1107.3	1066.9
32.5°	787.8	859.6	946.5	1030.7	1106.7	1155.1	1159.2	1126.7	1084.1	1039.2	988.8
35°	747.1	824.9	918.7	1007.7	1079.7	1110.3	1092.2	1034.9	984.3	922.9	854.2
37.5°	701.1	787.0	881.1	974.1	1039.5	1047.4	1002.5	942.1	870.8	798.6	717.8
40°	666.8	757.7	854.6	948.5	1006.2	997.9	940.6	874.2	789.3	701.1	626.0
42.5°	636.0	726.9	825.7	917.8	964.0	941.2	874.2	792.7	701.6	618.4	549.8
45°	582.7	676.2	777.3	866.3	892.7	851.6	763.0	672.5	582.7	513.3	459.0
47.5°	531.0	623.4	723.5	801.7	811.1	755.8	658.9	565.8	488.7	432.1	393.8
50°	492.9	585.7	684.9	754.7	751.6	684.9	585.3	496.7	432.2	386.6	360.9
52.5°	458.8	546.4	641.8	705.2	689.2	616.4	521.4	442.7	389.7	354.0	330.7
55°	405.8	486.9	577.4	628.3	599.0	518.2	437.9	374.5	335.3	308.5	290.4
57.5°	353.1	429.2	506.6	538.1	505.5	431.0	364.1	318.1	288.6	268.7	257.0
60°	320.5	387.0	456.0	483.1	444.2	377.9	325.1	284.0	260.2	244.0	233.5
62.5°	288.0	347.4	412.5	427.3	391.7	335.7	288.9	254.7	235.2	220.8	210.9
65°	243.7	292.3	341.7	351.5	318.7	275.3	238.3	216.1	198.7	188.2	180.3
67.5°	199.9	238.8	273.9	281.8	253.1	223.0	196.2	176.9	165.1	156.3	149.7
70°	173.9	204.8	233.5	239.8	216.8	190.1	169.8	154.2	143.7	136.1	129.8
72.5°	146.4	172.2	196.0	200.4	181.6	161.1	144.4	132.2	122.9	118.1	111.9
75°	112.0	127.1	145.6	146.7	134.3	121.8	109.0	101.1	96.1	90.2	87.2
77.5°	79.1	90.9	101.5	103.5	96.1	87.7	80.5	74.2	70.1	67.3	64.5
80°	60.4	69.8	74.3	77.0	71.7	65.6	61.5	57.4	54.7	52.8	50.9
82.5°	43.1	49.0	53.2	55.2	52.3	48.8	44.5	42.2	40.2	38.6	38.0
85°	21.9	24.5	27.2	27.9	27.2	25.7	23.4	23.4	22.2	21.9	21.9
87.5°	8.5	10.4	11.1	12.7	12.7	13.2	13.7	13.9	14.2	14.2	14.2
90°	4.9	8.5	12.0	15.5	18.5	21.1	23.6	26.2	28.7	30.3	31.9
92.5°	28.7	28.4	28.1	27.8	28.2	29.5	30.8	32.0	33.3	34.1	34.9
95°	82.8	72.3	61.8	51.2	47.1	49.3	51.5	53.8	56.0	57.6	59.2
97.5°	155.6	125.9	96.2	66.6	54.3	59.5	64.6	69.8	74.9	76.2	77.6
100°	210.5	166.7	123.0	79.3	60.2	65.5	71.0	76.4	81.9	84.4	86.9
102.5°	320.8	311.5	302.3	293.1	265.7	220.4	174.9	129.6	84.1	87.5	90.8
105°	446.2	455.8	465.3	474.9	436.2	349.0	261.9	174.7	87.7	91.1	94.6
107.5°	565.8	573.6	581.3	589.1	540.7	436.2	331.6	227.1	122.7	119.1	115.5
110°	643.0	649.6	656.4	663.1	620.3	528.1	435.9	343.6	251.4	219.4	187.5



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	715.7	721.6	727.6	733.6	725.1	702.4	679.5	656.7	634.0	517.6	401.1
115°	831.3	836.7	842.1	847.6	854.2	862.2	870.2	878.2	886.2	738.4	590.7
117.5°	935.6	941.7	947.8	953.8	959.6	965.0	970.6	976.0	981.6	945.8	910.1
120°	1010.2	1014.9	1019.8	1024.5	1029.8	1035.5	1041.3	1047.0	1052.8	1056.6	1060.5
122.5°	1074.8	1079.8	1084.9	1089.9	1095.6	1101.8	1108.0	1114.3	1120.5	1122.9	1125.2
125°	1171.8	1176.0	1180.1	1184.3	1189.4	1195.5	1201.5	1207.6	1213.7	1215.9	1218.1
127.5°	1261.0	1265.7	1270.2	1274.9	1279.4	1283.9	1288.5	1293.0	1297.6	1300.8	1304.0
130°	1317.9	1322.9	1328.1	1333.2	1337.5	1341.0	1344.5	1348.0	1351.5	1355.0	1358.6
132.5°	1374.5	1378.9	1383.2	1387.6	1391.5	1395.0	1398.5	1402.0	1405.5	1408.6	1411.5
135°	1450.0	1455.1	1460.2	1465.3	1469.3	1472.2	1475.0	1477.9	1480.8	1484.0	1487.1
137.5°	1524.0	1527.6	1531.2	1534.7	1538.1	1541.4	1544.7	1547.9	1551.2	1554.3	1557.4
140°	1572.4	1575.0	1577.5	1580.0	1583.1	1586.6	1590.1	1593.7	1597.1	1600.0	1602.9
142.5°	1613.5	1615.8	1618.1	1620.4	1623.6	1627.6	1631.6	1635.6	1639.6	1642.2	1644.9
145°	1675.8	1675.5	1675.2	1674.9	1677.4	1682.8	1688.3	1693.6	1699.1	1701.3	1703.5
147.5°	1731.5	1730.3	1729.1	1727.9	1729.9	1735.3	1740.7	1746.1	1751.4	1753.0	1754.7
150°	1767.3	1765.0	1762.8	1760.5	1762.0	1767.1	1772.2	1777.3	1782.4	1784.3	1786.2
152.5°	1798.1	1795.5	1793.0	1790.6	1791.7	1796.5	1801.4	1806.2	1811.1	1813.0	1814.9
155°	1842.7	1839.9	1836.9	1834.1	1834.6	1838.5	1842.3	1846.1	1849.9	1851.8	1853.7
157.5°	1878.6	1876.1	1873.7	1871.3	1871.4	1874.0	1876.7	1879.4	1882.1	1884.3	1886.4
160°	1899.7	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1903.5	1905.4
162.5°	1918.1	1916.2	1914.3	1912.4	1912.2	1913.9	1915.5	1917.2	1918.8	1921.1	1923.2
165°	1942.8	1940.9	1938.9	1937.0	1936.6	1937.5	1938.4	1939.4	1940.4	1942.7	1944.9
167.5°	1961.2	1959.2	1957.3	1955.4	1954.9	1955.8	1956.7	1957.6	1958.5	1960.8	1963.0
170°	1971.6	1969.6	1967.7	1965.8	1965.1	1965.8	1966.4	1967.0	1967.7	1969.9	1972.2
172.5°	1978.4	1976.5	1974.6	1972.7	1972.1	1972.7	1973.3	1974.0	1974.6	1976.8	1979.0
175°	1987.0	1984.8	1982.6	1980.3	1979.5	1980.1	1980.7	1981.5	1982.1	1984.3	1986.5
177.5°	1988.9	1987.1	1985.3	1983.5	1982.8	1983.0	1983.3	1983.5	1983.8	1985.6	1987.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	981.3	981.3	981.3	981.3	981.3	981.3	981.3
2.5°	1017.8	1022.1	1022.1	1022.7	1027.4	1026.9	1026.6
5°	1083.2	1089.5	1090.4	1097.1	1101.7	1100.1	1096.0
7.5°	1144.8	1156.7	1165.8	1170.8	1176.8	1180.4	1178.8
10°	1193.7	1211.0	1221.5	1228.7	1237.4	1243.9	1241.5
12.5°	1238.0	1258.7	1273.1	1285.5	1286.6	1294.8	1289.2
15°	1307.2	1329.1	1331.3	1340.4	1347.6	1346.8	1347.2
17.5°	1330.0	1337.1	1338.5	1338.7	1338.8	1336.2	1330.4
20°	1321.9	1319.3	1312.8	1308.0	1299.3	1298.1	1290.6
22.5°	1283.2	1274.9	1258.8	1248.2	1234.7	1231.1	1229.0
25°	1207.2	1188.7	1163.1	1138.6	1131.8	1118.6	1122.4
27.5°	1102.9	1074.1	1046.3	1026.4	1008.5	988.7	994.3
30°	1029.6	997.1	958.0	927.8	908.6	889.7	886.3
32.5°	942.1	894.5	850.8	824.3	794.8	782.8	769.8
35°	791.2	744.9	701.5	664.2	642.7	626.0	611.0
37.5°	655.5	602.2	567.1	536.9	521.4	511.9	514.2
40°	571.4	524.6	499.0	475.9	461.6	454.8	456.4
42.5°	503.2	468.2	447.1	431.3	421.2	417.4	416.5
45°	425.8	406.2	388.8	379.8	374.9	370.7	368.1
47.5°	373.0	357.0	347.2	341.8	337.5	333.4	333.3
50°	341.3	330.7	324.0	318.3	314.9	311.8	314.6
52.5°	317.2	307.5	300.7	295.7	294.4	291.6	291.6
55°	281.3	273.8	268.9	264.4	262.2	260.6	258.7
57.5°	248.7	241.6	237.1	234.2	229.9	228.4	227.8
60°	225.5	219.8	215.3	211.6	209.6	206.7	206.7
62.5°	204.1	198.4	194.2	191.4	188.2	187.0	187.3
65°	173.1	168.5	164.4	161.4	160.7	158.4	159.2
67.5°	144.6	141.6	137.2	135.5	134.1	132.9	132.0
70°	125.6	122.6	120.3	118.1	116.9	116.9	116.9
72.5°	109.6	105.9	104.6	101.8	102.4	101.2	100.0
75°	84.8	82.6	81.5	80.3	78.5	78.5	78.5
77.5°	62.4	61.8	60.4	59.2	58.8	58.4	58.6
80°	48.3	47.9	47.2	47.2	46.4	46.0	45.2
82.5°	37.1	36.2	35.6	35.3	35.2	35.1	35.0
85°	21.1	20.4	20.4	20.7	20.0	20.0	20.4
87.5°	14.8	15.1	15.0	15.2	15.7	15.5	15.6
90°	33.5	35.1	36.3	36.9	37.5	38.2	38.8
92.5°	35.9	36.7	37.3	37.7	38.0	38.4	38.8
95°	60.8	62.4	63.0	62.7	62.4	62.1	61.8
97.5°	78.8	80.1	80.9	81.3	81.7	82.1	82.4
100°	89.6	92.1	93.7	94.3	94.9	95.6	96.2
102.5°	94.1	97.5	99.6	100.5	101.3	102.2	103.1
105°	98.2	101.7	104.0	105.3	106.6	107.9	109.2
107.5°	111.9	108.4	107.2	108.5	109.8	111.1	112.3
110°	155.6	123.7	108.4	109.7	110.9	112.2	113.5



TEST NUMBER: P331519-840

CATALOG NUMBER: S122DIW-S485D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	284.7	168.2	110.5	111.6	112.6	113.6	114.6
115°	442.8	295.1	209.6	186.7	163.7	140.8	117.8
117.5°	874.3	838.6	782.9	707.4	631.9	556.3	480.9
120°	1064.3	1068.1	1048.4	1005.4	962.3	919.2	876.2
122.5°	1127.5	1129.7	1126.7	1118.3	1110.0	1101.7	1093.3
125°	1220.3	1222.5	1224.2	1225.2	1226.1	1227.1	1228.0
127.5°	1307.3	1310.5	1312.3	1312.4	1312.6	1312.8	1313.0
130°	1362.1	1365.5	1367.2	1366.9	1366.5	1366.2	1365.8
132.5°	1414.5	1417.5	1418.9	1418.6	1418.3	1418.0	1417.5
135°	1490.4	1493.6	1494.8	1494.2	1493.6	1492.9	1492.3
137.5°	1560.5	1563.7	1564.7	1563.6	1562.6	1561.5	1560.3
140°	1605.8	1608.6	1609.2	1607.7	1606.1	1604.5	1602.9
142.5°	1647.5	1650.1	1650.6	1649.0	1647.4	1645.9	1644.3
145°	1705.8	1708.1	1708.4	1706.8	1705.2	1703.5	1702.0
147.5°	1756.4	1758.1	1758.2	1756.9	1755.5	1754.1	1752.8
150°	1788.2	1790.1	1790.2	1788.7	1787.1	1785.4	1783.8
152.5°	1816.8	1818.8	1818.7	1816.5	1814.5	1812.4	1810.3
155°	1855.6	1857.5	1857.2	1854.7	1852.2	1849.6	1847.0
157.5°	1888.5	1890.8	1890.6	1888.1	1885.6	1883.1	1880.7
160°	1907.3	1909.3	1909.1	1906.9	1904.6	1902.4	1900.2
162.5°	1925.4	1927.5	1927.2	1924.5	1921.8	1919.0	1916.3
165°	1947.1	1949.3	1949.3	1947.1	1944.9	1942.7	1940.4
167.5°	1965.2	1967.4	1967.1	1964.3	1961.4	1958.5	1955.6
170°	1974.4	1976.6	1976.3	1973.5	1970.5	1967.7	1964.8
172.5°	1981.3	1983.5	1983.2	1980.3	1977.4	1974.6	1971.7
175°	1988.7	1990.9	1990.5	1987.3	1984.1	1981.0	1977.7
177.5°	1989.1	1990.9	1990.6	1988.3	1986.1	1983.8	1981.5
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9

(END OF REPORT)