

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

Luminaire Tested: **S122DIW-S485D1440U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331519
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-S485D1440U835-4F0-1E-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: 7908.8 lumens
Efficiency: N/A
Efficacy: 130.5 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: Semi-Indirect

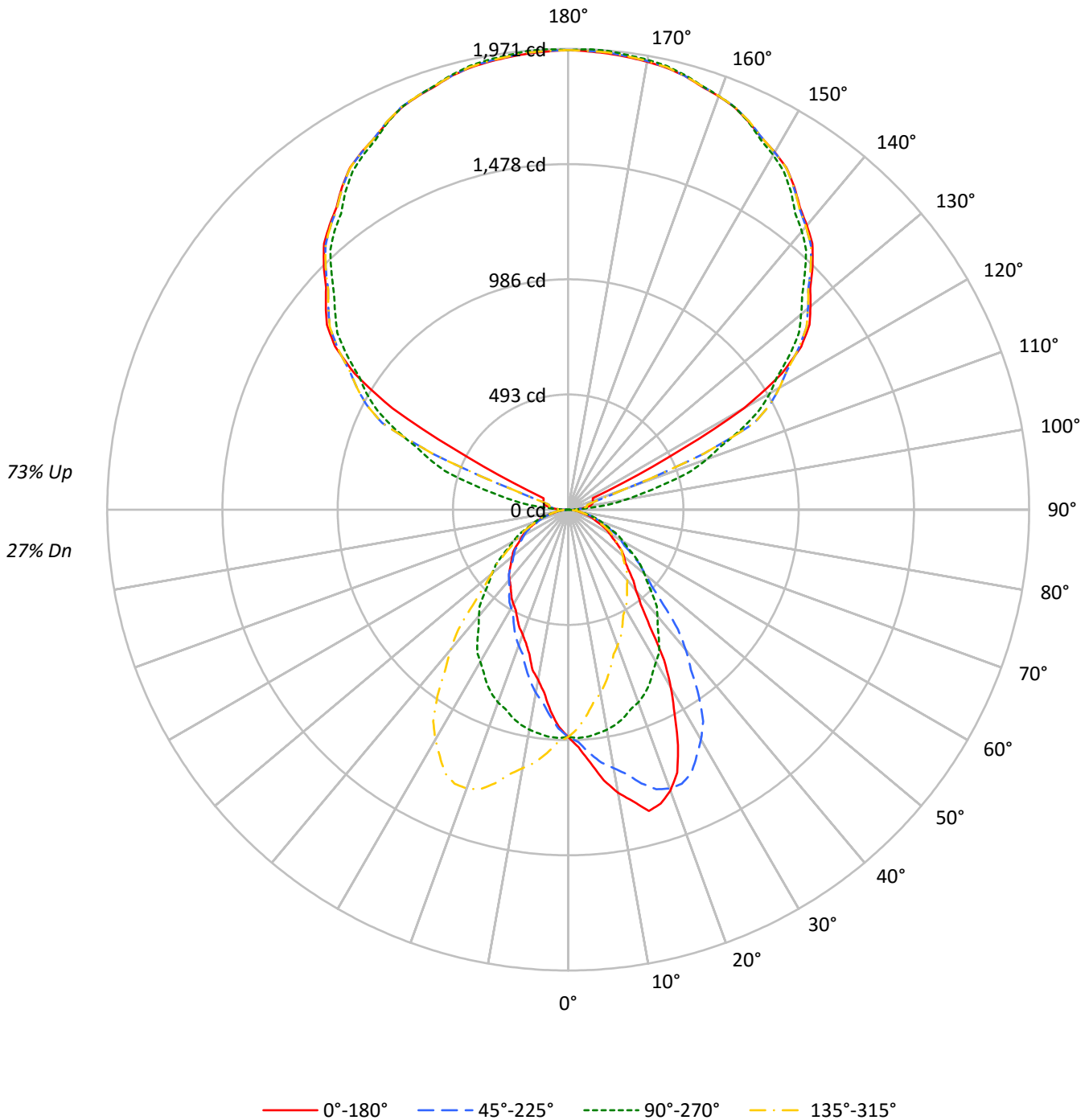
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	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	1.2
10°-20°	269.0	3.4
20°-30°	390.5	4.9
30°-40°	412.0	5.2
40°-50°	364.8	4.6
50°-60°	291.1	3.7
60°-70°	197.9	2.5
70°-80°	101.5	1.3
80°-90°	29.3	0.4
90°-100°	65.6	0.8
100°-110°	240.4	3.0
110°-120°	642.7	8.1
120°-130°	1060.9	13.4
130°-140°	1128.3	14.3
140°-150°	1048.7	13.3
150°-160°	843.1	10.7
160°-170°	543.3	6.9
170°-180°	187.0	2.4
0°-30°	752.0	9.5
0°-40°	1164.1	14.7
0°-60°	1820.1	23.0
0°-90°	2148.7	27.2
90°-120°	948.7	12.0
90°-150°	4186.6	52.9
90°-180°	5760.0	72.8
0°-180°	7908.8	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°	38	1	38	1	38	18
95°	61	92	61	92	61	57
105°	108	432	108	432	108	112
115°	117	818	117	818	117	292
125°	1216	1156	1216	1156	1216	1052
135°	1478	1431	1478	1431	1478	1139
145°	1685	1660	1685	1660	1685	1054
155°	1829	1828	1829	1828	1829	844
165°	1921	1926	1921	1926	1921	542
175°	1958	1970	1958	1970	1958	187
180°	1966	1966	1966	1966	1966	



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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°	15.4	15.3	15.5	15.1	14.9	15.0	14.7	14.1	14.1	14.1	13.8
90°	38.4	37.8	37.1	36.5	35.9	34.8	33.2	31.6	30.0	28.4	25.9
92.5°	38.4	38.0	37.6	37.3	36.9	36.3	35.5	34.6	33.8	33.0	31.7
95°	61.2	61.5	61.8	62.1	62.4	61.8	60.2	58.6	57.0	55.5	53.3
97.5°	81.6	81.3	80.9	80.5	80.1	79.3	78.0	76.8	75.5	74.2	69.1
100°	95.3	94.7	94.0	93.4	92.8	91.2	88.7	86.1	83.6	81.1	75.7
102.5°	102.1	101.2	100.3	99.5	98.6	96.5	93.2	89.9	86.6	83.3	128.3
105°	108.1	106.8	105.6	104.3	103.0	100.7	97.2	93.7	90.2	86.8	173.0
107.5°	111.2	110.0	108.7	107.4	106.2	107.3	110.8	114.4	117.9	121.5	224.9
110°	112.4	111.1	109.8	108.6	107.3	122.5	154.1	185.7	217.3	248.9	340.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	113.5	112.5	111.5	110.5	109.4	166.6	281.9	397.2	512.5	627.8	650.3
115°	116.6	139.4	162.1	184.9	207.6	292.2	438.5	584.9	731.2	877.5	869.6
117.5°	476.2	550.9	625.7	700.5	775.3	830.4	865.8	901.2	936.6	972.0	966.5
120°	867.6	910.2	952.9	995.6	1038.2	1057.7	1053.9	1050.1	1046.3	1042.5	1036.8
122.5°	1082.6	1090.9	1099.2	1107.4	1115.7	1118.7	1116.5	1114.2	1111.9	1109.6	1103.4
125°	1216.0	1215.1	1214.1	1213.2	1212.2	1210.6	1208.4	1206.2	1204.0	1201.8	1195.8
127.5°	1300.2	1300.0	1299.8	1299.6	1299.5	1297.7	1294.5	1291.3	1288.1	1284.9	1280.4
130°	1352.5	1352.9	1353.2	1353.5	1353.8	1352.2	1348.8	1345.3	1341.8	1338.3	1334.8
132.5°	1403.7	1404.1	1404.4	1404.7	1405.0	1403.7	1400.7	1397.7	1394.8	1391.8	1388.3
135°	1477.7	1478.3	1479.0	1479.6	1480.2	1479.0	1475.8	1472.6	1469.5	1466.3	1463.5
137.5°	1545.1	1546.2	1547.3	1548.3	1549.4	1548.4	1545.3	1542.2	1539.1	1536.0	1532.8
140°	1587.2	1588.8	1590.4	1592.0	1593.5	1592.9	1590.1	1587.2	1584.4	1581.5	1578.1
142.5°	1628.2	1629.8	1631.3	1632.9	1634.5	1634.0	1631.4	1628.8	1626.2	1623.6	1619.6
145°	1685.4	1686.9	1688.5	1690.1	1691.7	1691.4	1689.1	1686.9	1684.7	1682.5	1677.1
147.5°	1735.7	1737.0	1738.4	1739.7	1741.0	1740.9	1739.2	1737.6	1735.9	1734.3	1729.0
150°	1766.4	1768.0	1769.6	1771.2	1772.7	1772.6	1770.7	1768.8	1766.9	1765.0	1759.9
152.5°	1792.6	1794.7	1796.8	1798.8	1800.9	1801.0	1799.1	1797.2	1795.3	1793.4	1788.6
155°	1829.0	1831.5	1834.1	1836.6	1839.1	1839.4	1837.5	1835.6	1833.7	1831.8	1828.1
157.5°	1862.3	1864.7	1867.2	1869.7	1872.1	1872.3	1870.1	1868.0	1865.9	1863.7	1861.0
160°	1881.6	1883.8	1886.0	1888.3	1890.5	1890.6	1888.7	1886.8	1884.9	1883.0	1881.1
162.5°	1897.6	1900.3	1903.0	1905.7	1908.4	1908.7	1906.6	1904.4	1902.3	1900.1	1898.5
165°	1921.4	1923.7	1925.9	1928.1	1930.3	1930.3	1928.1	1925.9	1923.7	1921.4	1920.5
167.5°	1936.5	1939.4	1942.2	1945.1	1947.9	1948.2	1946.0	1943.8	1941.6	1939.4	1938.5
170°	1945.6	1948.5	1951.3	1954.2	1957.0	1957.3	1955.1	1952.9	1950.7	1948.5	1947.8
172.5°	1952.4	1955.3	1958.1	1961.0	1963.8	1964.1	1961.9	1959.7	1957.5	1955.3	1954.7
175°	1958.4	1961.6	1964.7	1967.9	1971.1	1971.5	1969.3	1967.1	1964.9	1962.7	1962.1
177.5°	1962.1	1964.4	1966.7	1968.9	1971.2	1971.5	1969.7	1967.9	1966.2	1964.4	1964.1
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



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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°	13.6	13.1	12.6	12.6	11.0	10.3	8.4	6.9	7.3	7.7	7.7
90°	23.4	20.9	18.3	15.3	11.9	8.4	4.9	1.4	4.9	8.4	11.9
92.5°	30.5	29.2	27.9	27.5	27.8	28.1	28.4	28.7	28.4	28.1	27.8
95°	51.0	48.8	46.6	50.7	61.2	71.6	82.0	92.4	82.0	71.6	61.2
97.5°	64.0	58.9	53.8	65.9	95.3	124.7	154.1	183.5	154.1	124.7	95.3
100°	70.3	64.9	59.6	78.5	121.8	165.1	208.4	251.7	208.4	165.1	121.8
102.5°	173.2	218.2	263.1	290.2	299.3	308.5	317.7	326.8	317.7	308.5	299.3
105°	259.3	345.6	431.9	470.3	460.8	451.3	441.8	432.4	441.8	451.3	460.8
107.5°	328.4	431.9	535.4	583.3	575.6	568.0	560.3	552.7	560.3	568.0	575.6
110°	431.6	522.9	614.2	656.6	650.0	643.3	636.7	630.1	636.7	643.3	650.0



TEST NUMBER: P331519

CATALOG NUMBER: S122DIW-S485D1440U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	672.9	695.5	718.0	726.4	720.5	714.6	708.7	702.9	708.7	714.6	720.5
115°	861.7	853.8	845.9	839.3	833.9	828.5	823.2	817.8	823.2	828.5	833.9
117.5°	961.1	955.6	950.2	944.5	938.5	932.5	926.5	920.5	926.5	932.5	938.5
120°	1031.1	1025.4	1019.7	1014.5	1009.8	1005.0	1000.3	995.6	1000.3	1005.0	1009.8
122.5°	1097.2	1091.0	1084.9	1079.3	1074.3	1069.3	1064.3	1059.3	1064.3	1069.3	1074.3
125°	1189.8	1183.8	1177.8	1172.7	1168.6	1164.5	1160.4	1156.3	1160.4	1164.5	1168.6
127.5°	1275.9	1271.4	1266.9	1262.4	1257.8	1253.3	1248.7	1244.2	1248.7	1253.3	1257.8
130°	1331.4	1327.9	1324.4	1320.2	1315.1	1310.0	1305.0	1299.9	1305.0	1310.0	1315.1
132.5°	1384.8	1381.4	1377.9	1374.0	1369.7	1365.4	1361.1	1356.8	1361.1	1365.4	1369.7
135°	1460.6	1457.8	1454.9	1451.0	1445.9	1440.9	1435.8	1430.8	1435.8	1440.9	1445.9
137.5°	1529.6	1526.3	1523.1	1519.7	1516.2	1512.7	1509.1	1505.6	1509.1	1512.7	1516.2
140°	1574.6	1571.1	1567.6	1564.6	1562.1	1559.6	1557.0	1554.5	1557.0	1559.6	1562.1
142.5°	1615.7	1611.7	1607.7	1604.6	1602.3	1600.0	1597.7	1595.5	1597.7	1600.0	1602.3
145°	1671.8	1666.4	1661.0	1658.5	1658.8	1659.1	1659.4	1659.8	1659.4	1659.1	1658.8
147.5°	1723.7	1718.3	1713.0	1711.0	1712.2	1713.4	1714.6	1715.8	1714.6	1713.4	1712.2
150°	1754.9	1749.8	1744.8	1743.3	1745.6	1747.8	1750.0	1752.2	1750.0	1747.8	1745.6
152.5°	1783.8	1779.0	1774.2	1773.1	1775.5	1778.0	1780.5	1782.9	1780.5	1778.0	1775.5
155°	1824.3	1820.5	1816.7	1816.2	1819.0	1821.9	1824.7	1827.6	1824.7	1821.9	1819.0
157.5°	1858.4	1855.7	1853.1	1853.0	1855.4	1857.8	1860.2	1862.6	1860.2	1857.8	1855.4
160°	1879.3	1877.4	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0	1881.1	1879.3	1877.4
162.5°	1896.8	1895.2	1893.5	1893.7	1895.6	1897.5	1899.4	1901.2	1899.4	1897.5	1895.6
165°	1919.5	1918.6	1917.7	1918.1	1920.0	1921.9	1923.8	1925.7	1923.8	1921.9	1920.0
167.5°	1937.6	1936.7	1935.8	1936.3	1938.2	1940.1	1942.0	1943.9	1942.0	1940.1	1938.2
170°	1947.2	1946.6	1945.9	1946.6	1948.5	1950.4	1952.3	1954.2	1952.3	1950.4	1948.5
172.5°	1954.0	1953.4	1952.8	1953.4	1955.3	1957.2	1959.1	1961.0	1959.1	1957.2	1955.3
175°	1961.4	1960.8	1960.2	1961.0	1963.2	1965.4	1967.6	1969.8	1967.6	1965.4	1963.2
177.5°	1963.9	1963.6	1963.4	1964.1	1965.9	1967.7	1969.5	1971.2	1969.5	1967.7	1965.9
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



TEST NUMBER: P331519

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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°	8.1	8.4	8.7	9.2	9.4	9.6	9.6	9.9	10.2	9.9	10.2
90°	15.3	18.3	20.9	23.4	25.9	28.4	30.0	31.6	33.2	34.8	35.9
92.5°	27.5	27.9	29.2	30.5	31.7	33.0	33.8	34.6	35.5	36.3	36.9
95°	50.7	46.6	48.8	51.0	53.3	55.5	57.0	58.6	60.2	61.8	62.4
97.5°	65.9	53.8	58.9	64.0	69.1	74.2	75.5	76.8	78.0	79.3	80.1
100°	78.5	59.6	64.9	70.3	75.7	81.1	83.6	86.1	88.7	91.2	92.8
102.5°	290.2	263.1	218.2	173.2	128.3	83.3	86.6	89.9	93.2	96.5	98.6
105°	470.3	431.9	345.6	259.3	173.0	86.8	90.2	93.7	97.2	100.7	103.0
107.5°	583.3	535.4	431.9	328.4	224.9	121.5	117.9	114.4	110.8	107.3	106.2
110°	656.6	614.2	522.9	431.6	340.2	248.9	217.3	185.7	154.1	122.5	107.3



TEST NUMBER: P331519

CATALOG NUMBER: S122DIW-S485D1440U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	726.4	718.0	695.5	672.9	650.3	627.8	512.5	397.2	281.9	166.6	109.4
115°	839.3	845.9	853.8	861.7	869.6	877.5	731.2	584.9	438.5	292.2	207.6
117.5°	944.5	950.2	955.6	961.1	966.5	972.0	936.6	901.2	865.8	830.4	775.3
120°	1014.5	1019.7	1025.4	1031.1	1036.8	1042.5	1046.3	1050.1	1053.9	1057.7	1038.2
122.5°	1079.3	1084.9	1091.0	1097.2	1103.4	1109.6	1111.9	1114.2	1116.5	1118.7	1115.7
125°	1172.7	1177.8	1183.8	1189.8	1195.8	1201.8	1204.0	1206.2	1208.4	1210.6	1212.2
127.5°	1262.4	1266.9	1271.4	1275.9	1280.4	1284.9	1288.1	1291.3	1294.5	1297.7	1299.5
130°	1320.2	1324.4	1327.9	1331.4	1334.8	1338.3	1341.8	1345.3	1348.8	1352.2	1353.8
132.5°	1374.0	1377.9	1381.4	1384.8	1388.3	1391.8	1394.8	1397.7	1400.7	1403.7	1405.0
135°	1451.0	1454.9	1457.8	1460.6	1463.5	1466.3	1469.5	1472.6	1475.8	1479.0	1480.2
137.5°	1519.7	1523.1	1526.3	1529.6	1532.8	1536.0	1539.1	1542.2	1545.3	1548.4	1549.4
140°	1564.6	1567.6	1571.1	1574.6	1578.1	1581.5	1584.4	1587.2	1590.1	1592.9	1593.5
142.5°	1604.6	1607.7	1611.7	1615.7	1619.6	1623.6	1626.2	1628.8	1631.4	1634.0	1634.5
145°	1658.5	1661.0	1666.4	1671.8	1677.1	1682.5	1684.7	1686.9	1689.1	1691.4	1691.7
147.5°	1711.0	1713.0	1718.3	1723.7	1729.0	1734.3	1735.9	1737.6	1739.2	1740.9	1741.0
150°	1743.3	1744.8	1749.8	1754.9	1759.9	1765.0	1766.9	1768.8	1770.7	1772.6	1772.7
152.5°	1773.1	1774.2	1779.0	1783.8	1788.6	1793.4	1795.3	1797.2	1799.1	1801.0	1800.9
155°	1816.2	1816.7	1820.5	1824.3	1828.1	1831.8	1833.7	1835.6	1837.5	1839.4	1839.1
157.5°	1853.0	1853.1	1855.7	1858.4	1861.0	1863.7	1865.9	1868.0	1870.1	1872.3	1872.1
160°	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0	1884.9	1886.8	1888.7	1890.6	1890.5
162.5°	1893.7	1893.5	1895.2	1896.8	1898.5	1900.1	1902.3	1904.4	1906.6	1908.7	1908.4
165°	1918.1	1917.7	1918.6	1919.5	1920.5	1921.4	1923.7	1925.9	1928.1	1930.3	1930.3
167.5°	1936.3	1935.8	1936.7	1937.6	1938.5	1939.4	1941.6	1943.8	1946.0	1948.2	1947.9
170°	1946.6	1945.9	1946.6	1947.2	1947.8	1948.5	1950.7	1952.9	1955.1	1957.3	1957.0
172.5°	1953.4	1952.8	1953.4	1954.0	1954.7	1955.3	1957.5	1959.7	1961.9	1964.1	1963.8
175°	1961.0	1960.2	1960.8	1961.4	1962.1	1962.7	1964.9	1967.1	1969.3	1971.5	1971.1
177.5°	1964.1	1963.4	1963.6	1963.9	1964.1	1964.4	1966.2	1967.9	1969.7	1971.5	1971.2
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



TEST NUMBER: P331519

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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°	10.3	10.1	10.2	10.1	10.2	10.1	10.3	10.2	9.9	10.2	9.9
90°	36.5	37.1	37.8	38.4	37.8	37.1	36.5	35.9	34.8	33.2	31.6
92.5°	37.3	37.6	38.0	38.4	38.0	37.6	37.3	36.9	36.3	35.5	34.6
95°	62.1	61.8	61.5	61.2	61.5	61.8	62.1	62.4	61.8	60.2	58.6
97.5°	80.5	80.9	81.3	81.6	81.3	80.9	80.5	80.1	79.3	78.0	76.8
100°	93.4	94.0	94.7	95.3	94.7	94.0	93.4	92.8	91.2	88.7	86.1
102.5°	99.5	100.3	101.2	102.1	101.2	100.3	99.5	98.6	96.5	93.2	89.9
105°	104.3	105.6	106.8	108.1	106.8	105.6	104.3	103.0	100.7	97.2	93.7
107.5°	107.4	108.7	110.0	111.2	110.0	108.7	107.4	106.2	107.3	110.8	114.4
110°	108.6	109.8	111.1	112.4	111.1	109.8	108.6	107.3	122.5	154.1	185.7



TEST NUMBER: P331519

CATALOG NUMBER: S122DIW-S485D1440U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	110.5	111.5	112.5	113.5	112.5	111.5	110.5	109.4	166.6	281.9	397.2
115°	184.9	162.1	139.4	116.6	139.4	162.1	184.9	207.6	292.2	438.5	584.9
117.5°	700.5	625.7	550.9	476.2	550.9	625.7	700.5	775.3	830.4	865.8	901.2
120°	995.6	952.9	910.2	867.6	910.2	952.9	995.6	1038.2	1057.7	1053.9	1050.1
122.5°	1107.4	1099.2	1090.9	1082.6	1090.9	1099.2	1107.4	1115.7	1118.7	1116.5	1114.2
125°	1213.2	1214.1	1215.1	1216.0	1215.1	1214.1	1213.2	1212.2	1210.6	1208.4	1206.2
127.5°	1299.6	1299.8	1300.0	1300.2	1300.0	1299.8	1299.6	1299.5	1297.7	1294.5	1291.3
130°	1353.5	1353.2	1352.9	1352.5	1352.9	1353.2	1353.5	1353.8	1352.2	1348.8	1345.3
132.5°	1404.7	1404.4	1404.1	1403.7	1404.1	1404.4	1404.7	1405.0	1403.7	1400.7	1397.7
135°	1479.6	1479.0	1478.3	1477.7	1478.3	1479.0	1479.6	1480.2	1479.0	1475.8	1472.6
137.5°	1548.3	1547.3	1546.2	1545.1	1546.2	1547.3	1548.3	1549.4	1548.4	1545.3	1542.2
140°	1592.0	1590.4	1588.8	1587.2	1588.8	1590.4	1592.0	1593.5	1592.9	1590.1	1587.2
142.5°	1632.9	1631.3	1629.8	1628.2	1629.8	1631.3	1632.9	1634.5	1634.0	1631.4	1628.8
145°	1690.1	1688.5	1686.9	1685.4	1686.9	1688.5	1690.1	1691.7	1691.4	1689.1	1686.9
147.5°	1739.7	1738.4	1737.0	1735.7	1737.0	1738.4	1739.7	1741.0	1740.9	1739.2	1737.6
150°	1771.2	1769.6	1768.0	1766.4	1768.0	1769.6	1771.2	1772.7	1772.6	1770.7	1768.8
152.5°	1798.8	1796.8	1794.7	1792.6	1794.7	1796.8	1798.8	1800.9	1801.0	1799.1	1797.2
155°	1836.6	1834.1	1831.5	1829.0	1831.5	1834.1	1836.6	1839.1	1839.4	1837.5	1835.6
157.5°	1869.7	1867.2	1864.7	1862.3	1864.7	1867.2	1869.7	1872.1	1872.3	1870.1	1868.0
160°	1888.3	1886.0	1883.8	1881.6	1883.8	1886.0	1888.3	1890.5	1890.6	1888.7	1886.8
162.5°	1905.7	1903.0	1900.3	1897.6	1900.3	1903.0	1905.7	1908.4	1908.7	1906.6	1904.4
165°	1928.1	1925.9	1923.7	1921.4	1923.7	1925.9	1928.1	1930.3	1930.3	1928.1	1925.9
167.5°	1945.1	1942.2	1939.4	1936.5	1939.4	1942.2	1945.1	1947.9	1948.2	1946.0	1943.8
170°	1954.2	1951.3	1948.5	1945.6	1948.5	1951.3	1954.2	1957.0	1957.3	1955.1	1952.9
172.5°	1961.0	1958.1	1955.3	1952.4	1955.3	1958.1	1961.0	1963.8	1964.1	1961.9	1959.7
175°	1967.9	1964.7	1961.6	1958.4	1961.6	1964.7	1967.9	1971.1	1971.5	1969.3	1967.1
177.5°	1968.9	1966.7	1964.4	1962.1	1964.4	1966.7	1968.9	1971.2	1971.5	1969.7	1967.9
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



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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°	9.6	9.6	9.4	9.2	8.7	8.4	8.1	7.7	7.7	7.3	6.9
90°	30.0	28.4	25.9	23.4	20.9	18.3	15.3	11.9	8.4	4.9	1.4
92.5°	33.8	33.0	31.7	30.5	29.2	27.9	27.5	27.8	28.1	28.4	28.7
95°	57.0	55.5	53.3	51.0	48.8	46.6	50.7	61.2	71.6	82.0	92.4
97.5°	75.5	74.2	69.1	64.0	58.9	53.8	65.9	95.3	124.7	154.1	183.5
100°	83.6	81.1	75.7	70.3	64.9	59.6	78.5	121.8	165.1	208.4	251.7
102.5°	86.6	83.3	128.3	173.2	218.2	263.1	290.2	299.3	308.5	317.7	326.8
105°	90.2	86.8	173.0	259.3	345.6	431.9	470.3	460.8	451.3	441.8	432.4
107.5°	117.9	121.5	224.9	328.4	431.9	535.4	583.3	575.6	568.0	560.3	552.7
110°	217.3	248.9	340.2	431.6	522.9	614.2	656.6	650.0	643.3	636.7	630.1



TEST NUMBER: P331519

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	512.5	627.8	650.3	672.9	695.5	718.0	726.4	720.5	714.6	708.7	702.9
115°	731.2	877.5	869.6	861.7	853.8	845.9	839.3	833.9	828.5	823.2	817.8
117.5°	936.6	972.0	966.5	961.1	955.6	950.2	944.5	938.5	932.5	926.5	920.5
120°	1046.3	1042.5	1036.8	1031.1	1025.4	1019.7	1014.5	1009.8	1005.0	1000.3	995.6
122.5°	1111.9	1109.6	1103.4	1097.2	1091.0	1084.9	1079.3	1074.3	1069.3	1064.3	1059.3
125°	1204.0	1201.8	1195.8	1189.8	1183.8	1177.8	1172.7	1168.6	1164.5	1160.4	1156.3
127.5°	1288.1	1284.9	1280.4	1275.9	1271.4	1266.9	1262.4	1257.8	1253.3	1248.7	1244.2
130°	1341.8	1338.3	1334.8	1331.4	1327.9	1324.4	1320.2	1315.1	1310.0	1305.0	1299.9
132.5°	1394.8	1391.8	1388.3	1384.8	1381.4	1377.9	1374.0	1369.7	1365.4	1361.1	1356.8
135°	1469.5	1466.3	1463.5	1460.6	1457.8	1454.9	1451.0	1445.9	1440.9	1435.8	1430.8
137.5°	1539.1	1536.0	1532.8	1529.6	1526.3	1523.1	1519.7	1516.2	1512.7	1509.1	1505.6
140°	1584.4	1581.5	1578.1	1574.6	1571.1	1567.6	1564.6	1562.1	1559.6	1557.0	1554.5
142.5°	1626.2	1623.6	1619.6	1615.7	1611.7	1607.7	1604.6	1602.3	1600.0	1597.7	1595.5
145°	1684.7	1682.5	1677.1	1671.8	1666.4	1661.0	1658.5	1658.8	1659.1	1659.4	1659.8
147.5°	1735.9	1734.3	1729.0	1723.7	1718.3	1713.0	1711.0	1712.2	1713.4	1714.6	1715.8
150°	1766.9	1765.0	1759.9	1754.9	1749.8	1744.8	1743.3	1745.6	1747.8	1750.0	1752.2
152.5°	1795.3	1793.4	1788.6	1783.8	1779.0	1774.2	1773.1	1775.5	1778.0	1780.5	1782.9
155°	1833.7	1831.8	1828.1	1824.3	1820.5	1816.7	1816.2	1819.0	1821.9	1824.7	1827.6
157.5°	1865.9	1863.7	1861.0	1858.4	1855.7	1853.1	1853.0	1855.4	1857.8	1860.2	1862.6
160°	1884.9	1883.0	1881.1	1879.3	1877.4	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0
162.5°	1902.3	1900.1	1898.5	1896.8	1895.2	1893.5	1893.7	1895.6	1897.5	1899.4	1901.2
165°	1923.7	1921.4	1920.5	1919.5	1918.6	1917.7	1918.1	1920.0	1921.9	1923.8	1925.7
167.5°	1941.6	1939.4	1938.5	1937.6	1936.7	1935.8	1936.3	1938.2	1940.1	1942.0	1943.9
170°	1950.7	1948.5	1947.8	1947.2	1946.6	1945.9	1946.6	1948.5	1950.4	1952.3	1954.2
172.5°	1957.5	1955.3	1954.7	1954.0	1953.4	1952.8	1953.4	1955.3	1957.2	1959.1	1961.0
175°	1964.9	1962.7	1962.1	1961.4	1960.8	1960.2	1961.0	1963.2	1965.4	1967.6	1969.8
177.5°	1966.2	1964.4	1964.1	1963.9	1963.6	1963.4	1964.1	1965.9	1967.7	1969.5	1971.2
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



TEST NUMBER: P331519

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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°	8.4	10.3	11.0	12.6	12.6	13.1	13.6	13.8	14.1	14.1	14.1
90°	4.9	8.4	11.9	15.3	18.3	20.9	23.4	25.9	28.4	30.0	31.6
92.5°	28.4	28.1	27.8	27.5	27.9	29.2	30.5	31.7	33.0	33.8	34.6
95°	82.0	71.6	61.2	50.7	46.6	48.8	51.0	53.3	55.5	57.0	58.6
97.5°	154.1	124.7	95.3	65.9	53.8	58.9	64.0	69.1	74.2	75.5	76.8
100°	208.4	165.1	121.8	78.5	59.6	64.9	70.3	75.7	81.1	83.6	86.1
102.5°	317.7	308.5	299.3	290.2	263.1	218.2	173.2	128.3	83.3	86.6	89.9
105°	441.8	451.3	460.8	470.3	431.9	345.6	259.3	173.0	86.8	90.2	93.7
107.5°	560.3	568.0	575.6	583.3	535.4	431.9	328.4	224.9	121.5	117.9	114.4
110°	636.7	643.3	650.0	656.6	614.2	522.9	431.6	340.2	248.9	217.3	185.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	708.7	714.6	720.5	726.4	718.0	695.5	672.9	650.3	627.8	512.5	397.2
115°	823.2	828.5	833.9	839.3	845.9	853.8	861.7	869.6	877.5	731.2	584.9
117.5°	926.5	932.5	938.5	944.5	950.2	955.6	961.1	966.5	972.0	936.6	901.2
120°	1000.3	1005.0	1009.8	1014.5	1019.7	1025.4	1031.1	1036.8	1042.5	1046.3	1050.1
122.5°	1064.3	1069.3	1074.3	1079.3	1084.9	1091.0	1097.2	1103.4	1109.6	1111.9	1114.2
125°	1160.4	1164.5	1168.6	1172.7	1177.8	1183.8	1189.8	1195.8	1201.8	1204.0	1206.2
127.5°	1248.7	1253.3	1257.8	1262.4	1266.9	1271.4	1275.9	1280.4	1284.9	1288.1	1291.3
130°	1305.0	1310.0	1315.1	1320.2	1324.4	1327.9	1331.4	1334.8	1338.3	1341.8	1345.3
132.5°	1361.1	1365.4	1369.7	1374.0	1377.9	1381.4	1384.8	1388.3	1391.8	1394.8	1397.7
135°	1435.8	1440.9	1445.9	1451.0	1454.9	1457.8	1460.6	1463.5	1466.3	1469.5	1472.6
137.5°	1509.1	1512.7	1516.2	1519.7	1523.1	1526.3	1529.6	1532.8	1536.0	1539.1	1542.2
140°	1557.0	1559.6	1562.1	1564.6	1567.6	1571.1	1574.6	1578.1	1581.5	1584.4	1587.2
142.5°	1597.7	1600.0	1602.3	1604.6	1607.7	1611.7	1615.7	1619.6	1623.6	1626.2	1628.8
145°	1659.4	1659.1	1658.8	1658.5	1661.0	1666.4	1671.8	1677.1	1682.5	1684.7	1686.9
147.5°	1714.6	1713.4	1712.2	1711.0	1713.0	1718.3	1723.7	1729.0	1734.3	1735.9	1737.6
150°	1750.0	1747.8	1745.6	1743.3	1744.8	1749.8	1754.9	1759.9	1765.0	1766.9	1768.8
152.5°	1780.5	1778.0	1775.5	1773.1	1774.2	1779.0	1783.8	1788.6	1793.4	1795.3	1797.2
155°	1824.7	1821.9	1819.0	1816.2	1816.7	1820.5	1824.3	1828.1	1831.8	1833.7	1835.6
157.5°	1860.2	1857.8	1855.4	1853.0	1853.1	1855.7	1858.4	1861.0	1863.7	1865.9	1868.0
160°	1881.1	1879.3	1877.4	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0	1884.9	1886.8
162.5°	1899.4	1897.5	1895.6	1893.7	1893.5	1895.2	1896.8	1898.5	1900.1	1902.3	1904.4
165°	1923.8	1921.9	1920.0	1918.1	1917.7	1918.6	1919.5	1920.5	1921.4	1923.7	1925.9
167.5°	1942.0	1940.1	1938.2	1936.3	1935.8	1936.7	1937.6	1938.5	1939.4	1941.6	1943.8
170°	1952.3	1950.4	1948.5	1946.6	1945.9	1946.6	1947.2	1947.8	1948.5	1950.7	1952.9
172.5°	1959.1	1957.2	1955.3	1953.4	1952.8	1953.4	1954.0	1954.7	1955.3	1957.5	1959.7
175°	1967.6	1965.4	1963.2	1961.0	1960.2	1960.8	1961.4	1962.1	1962.7	1964.9	1967.1
177.5°	1969.5	1967.7	1965.9	1964.1	1963.4	1963.6	1963.9	1964.1	1964.4	1966.2	1967.9
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



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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°	14.7	15.0	14.9	15.1	15.5	15.3	15.4
90°	33.2	34.8	35.9	36.5	37.1	37.8	38.4
92.5°	35.5	36.3	36.9	37.3	37.6	38.0	38.4
95°	60.2	61.8	62.4	62.1	61.8	61.5	61.2
97.5°	78.0	79.3	80.1	80.5	80.9	81.3	81.6
100°	88.7	91.2	92.8	93.4	94.0	94.7	95.3
102.5°	93.2	96.5	98.6	99.5	100.3	101.2	102.1
105°	97.2	100.7	103.0	104.3	105.6	106.8	108.1
107.5°	110.8	107.3	106.2	107.4	108.7	110.0	111.2
110°	154.1	122.5	107.3	108.6	109.8	111.1	112.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	281.9	166.6	109.4	110.5	111.5	112.5	113.5
115°	438.5	292.2	207.6	184.9	162.1	139.4	116.6
117.5°	865.8	830.4	775.3	700.5	625.7	550.9	476.2
120°	1053.9	1057.7	1038.2	995.6	952.9	910.2	867.6
122.5°	1116.5	1118.7	1115.7	1107.4	1099.2	1090.9	1082.6
125°	1208.4	1210.6	1212.2	1213.2	1214.1	1215.1	1216.0
127.5°	1294.5	1297.7	1299.5	1299.6	1299.8	1300.0	1300.2
130°	1348.8	1352.2	1353.8	1353.5	1353.2	1352.9	1352.5
132.5°	1400.7	1403.7	1405.0	1404.7	1404.4	1404.1	1403.7
135°	1475.8	1479.0	1480.2	1479.6	1479.0	1478.3	1477.7
137.5°	1545.3	1548.4	1549.4	1548.3	1547.3	1546.2	1545.1
140°	1590.1	1592.9	1593.5	1592.0	1590.4	1588.8	1587.2
142.5°	1631.4	1634.0	1634.5	1632.9	1631.3	1629.8	1628.2
145°	1689.1	1691.4	1691.7	1690.1	1688.5	1686.9	1685.4
147.5°	1739.2	1740.9	1741.0	1739.7	1738.4	1737.0	1735.7
150°	1770.7	1772.6	1772.7	1771.2	1769.6	1768.0	1766.4
152.5°	1799.1	1801.0	1800.9	1798.8	1796.8	1794.7	1792.6
155°	1837.5	1839.4	1839.1	1836.6	1834.1	1831.5	1829.0
157.5°	1870.1	1872.3	1872.1	1869.7	1867.2	1864.7	1862.3
160°	1888.7	1890.6	1890.5	1888.3	1886.0	1883.8	1881.6
162.5°	1906.6	1908.7	1908.4	1905.7	1903.0	1900.3	1897.6
165°	1928.1	1930.3	1930.3	1928.1	1925.9	1923.7	1921.4
167.5°	1946.0	1948.2	1947.9	1945.1	1942.2	1939.4	1936.5
170°	1955.1	1957.3	1957.0	1954.2	1951.3	1948.5	1945.6
172.5°	1961.9	1964.1	1963.8	1961.0	1958.1	1955.3	1952.4
175°	1969.3	1971.5	1971.1	1967.9	1964.7	1961.6	1958.4
177.5°	1969.7	1971.5	1971.2	1968.9	1966.7	1964.4	1962.1
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5

(END OF REPORT)