

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: P331937

Luminaire Tested: **S123DIP-S560D1025U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331937
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D1025U835-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6486.7 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

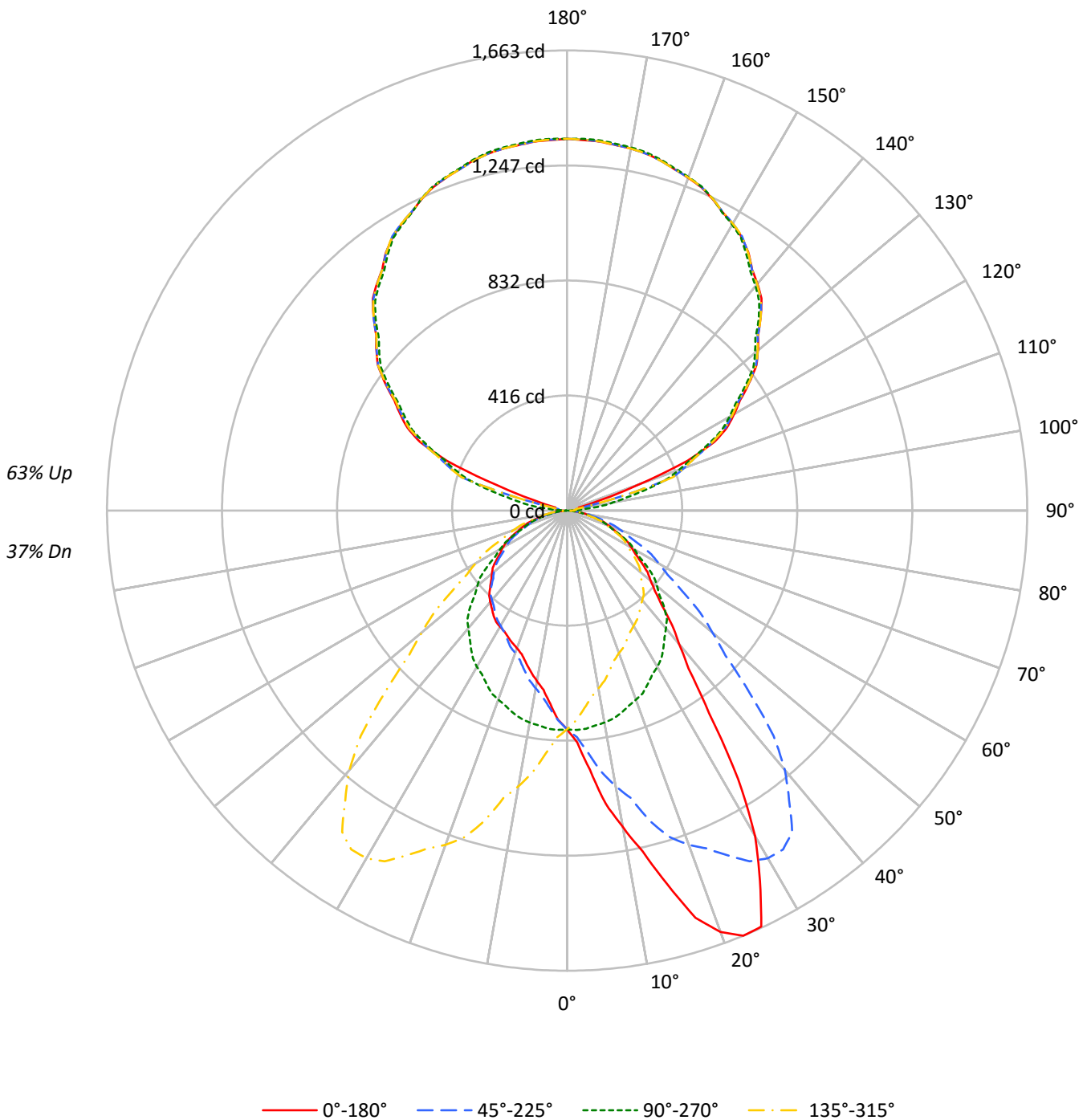
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				
1	95	91	87	84	86	83	79	77	67	65	63	52	51	50	39	38	38	31				
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27				
3	79	70	63	57	71	64	58	53	52	48	44	41	38	36	31	29	27	23				
4	72	62	54	49	65	57	50	45	46	41	38	37	33	31	28	25	24	20				
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	23	21	17				
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15				
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13				
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12				
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11				
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8509	8509	8509	8509
5°	10147	8546	7573	8546
10°	12701	8502	6840	8502
15°	15578	8433	6367	8433
20°	18558	8326	6063	8326
25°	19705	8197	5995	8197
30°	16890	8103	6027	8103
35°	11746	7967	6089	7967
40°	8847	7808	6070	7808
45°	7346	7573	5993	7573
50°	6581	7093	5940	7093
55°	6152	6576	5864	6576
60°	5772	6036	5804	6036
65°	5422	5501	5619	5501
70°	5086	4894	5350	4894
75°	4554	4284	4907	4284
80°	3986	3515	4228	3515
85°	3125	2556	2841	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.2
10°-20°	249.7	3.8
20°-30°	419.1	6.5
30°-40°	474.5	7.3
40°-50°	425.5	6.6
50°-60°	343.4	5.3
60°-70°	239.3	3.7
70°-80°	125.8	1.9
80°-90°	34.5	0.5
90°-100°	48.8	0.8
100°-110°	232.8	3.6
110°-120°	559.2	8.6
120°-130°	712.1	11.0
130°-140°	760.8	11.7
140°-150°	711.5	11.0
150°-160°	573.9	8.8
160°-170°	370.4	5.7
170°-180°	127.6	2.0
0°-30°	746.6	11.5
0°-40°	1221.1	18.8
0°-60°	1990.1	30.7
0°-90°	2389.7	36.8
90°-120°	840.8	13.0
90°-150°	3025.2	46.6
90°-180°	4097.0	63.2
0°-180°	6486.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	790	790	790	790	790	
5°	939	791	701	791	939	97
15°	1398	757	571	757	1398	404
25°	1659	690	505	690	1659	728
35°	894	606	463	606	894	581
45°	483	498	394	498	483	382
55°	328	350	312	350	328	294
65°	213	216	221	216	213	212
75°	110	103	118	103	110	117
85°	25	21	23	21	25	31
90°	30	1	30	1	30	15
95°	38	61	38	61	38	32
105°	44	297	44	297	44	100
115°	587	558	587	558	587	542
125°	802	786	802	786	802	717
135°	989	979	989	979	989	763
145°	1141	1130	1141	1130	1141	712
155°	1243	1245	1243	1245	1243	573
165°	1310	1313	1310	1313	1310	370
175°	1338	1344	1338	1344	1338	127
180°	1344	1344	1344	1344	1344	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	838.9	838.3	836.8	838.0	835.5	832.2	831.9	828.8	819.9	819.3	816.9
5°	939.1	936.0	935.7	935.3	929.9	922.6	908.8	907.7	889.3	880.1	869.0
7.5°	1068.9	1070.5	1064.9	1060.0	1043.6	1032.8	1018.0	999.1	976.5	953.6	938.3
10°	1162.0	1174.6	1158.9	1148.2	1138.3	1119.5	1097.7	1070.5	1043.3	1011.5	987.4
12.5°	1261.9	1268.1	1265.0	1254.8	1239.4	1210.8	1172.1	1142.2	1117.1	1064.2	1042.8
15°	1397.9	1421.3	1406.4	1371.9	1372.7	1345.5	1294.9	1239.4	1209.9	1163.5	1100.3
17.5°	1542.9	1545.8	1539.4	1510.7	1491.5	1454.2	1407.5	1354.3	1294.5	1238.5	1171.4
20°	1620.1	1617.8	1604.4	1589.4	1556.5	1527.4	1476.4	1417.1	1340.5	1285.3	1212.2
22.5°	1663.0	1659.1	1652.8	1640.3	1612.9	1581.6	1535.9	1471.0	1398.1	1322.1	1237.6
25°	1659.1	1664.1	1664.9	1661.4	1651.9	1633.1	1597.1	1545.4	1472.6	1375.0	1286.9
27.5°	1509.0	1516.0	1536.5	1554.7	1575.0	1595.6	1592.9	1567.2	1513.4	1429.0	1321.3
30°	1358.9	1343.5	1381.5	1429.3	1461.9	1519.3	1551.5	1553.4	1523.2	1450.8	1345.8
32.5°	1150.5	1167.4	1184.1	1243.0	1314.2	1378.7	1442.7	1494.3	1500.2	1452.0	1360.2
35°	893.9	915.0	945.6	976.3	1052.9	1118.7	1231.3	1329.4	1407.5	1417.8	1361.5
37.5°	720.3	730.8	750.1	780.8	830.9	909.1	996.2	1120.1	1233.3	1317.5	1321.2
40°	629.6	632.7	654.5	677.9	718.5	782.8	861.4	970.9	1106.5	1224.1	1273.1
42.5°	561.6	568.4	577.6	600.1	632.4	680.8	753.8	844.4	968.6	1103.9	1199.8
45°	482.6	490.2	496.0	510.9	533.9	566.4	617.4	700.1	794.7	934.5	1063.6
47.5°	430.3	430.9	435.2	446.5	462.1	486.6	522.6	575.7	662.6	775.9	908.5
50°	393.0	399.1	400.6	409.4	421.7	439.7	469.6	514.7	586.0	685.6	807.4
52.5°	366.6	368.4	372.7	379.1	389.8	403.8	429.7	465.1	521.0	605.9	717.9
55°	327.8	327.8	332.1	337.0	343.2	355.8	373.0	399.1	441.6	507.5	600.2
57.5°	292.0	293.9	296.9	298.4	303.6	312.0	326.4	346.2	377.9	428.6	502.3
60°	268.1	271.5	271.2	274.2	278.8	285.3	297.6	313.7	342.0	382.6	444.7
62.5°	247.3	247.0	247.0	250.6	255.2	261.4	269.4	283.3	307.4	343.4	396.2
65°	212.9	212.2	214.9	217.2	218.7	223.3	229.4	241.7	257.8	284.6	325.5
67.5°	182.5	180.2	181.7	182.5	185.1	188.7	194.4	202.0	214.8	236.3	267.2
70°	161.6	159.7	159.3	160.1	162.4	165.1	169.3	176.6	188.4	205.7	228.3
72.5°	140.2	138.9	138.8	140.5	141.6	143.3	146.3	153.0	162.4	175.3	196.4
75°	109.5	109.5	109.5	109.9	111.1	112.6	114.9	118.3	125.6	134.8	149.0
77.5°	82.1	82.0	81.6	81.5	83.2	83.9	84.4	87.6	91.7	97.9	108.2
80°	64.3	62.4	63.2	64.3	65.1	65.5	66.6	67.4	70.9	74.3	81.6
82.5°	47.8	46.2	46.3	48.1	48.3	48.6	49.8	50.9	52.2	55.3	59.2
85°	25.3	25.3	25.7	25.7	26.0	25.7	26.8	27.2	27.2	29.1	31.4
87.5°	15.2	14.5	14.7	14.9	14.5	14.7	14.8	15.0	15.1	15.2	14.9
90°	29.9	29.5	29.1	28.6	28.2	27.5	26.6	25.7	24.8	24.0	21.1
92.5°	33.1	32.9	32.6	32.3	32.1	31.2	29.8	28.4	27.0	25.6	23.4
95°	37.9	37.9	37.9	37.9	37.9	37.2	35.6	34.0	32.5	30.9	28.5
97.5°	41.1	40.9	40.7	40.5	40.2	39.2	37.5	35.7	33.9	32.1	48.1
100°	41.9	41.7	41.5	41.3	41.0	40.0	38.3	36.5	34.7	32.9	67.5
102.5°	42.7	42.3	41.9	41.5	41.1	43.7	49.2	54.7	60.2	65.7	103.5
105°	43.9	43.5	43.0	42.6	42.1	61.6	100.8	140.1	179.3	218.6	238.6
107.5°	137.9	167.5	197.1	226.7	256.3	285.5	314.3	343.1	371.9	400.7	397.5
110°	274.5	306.2	337.9	369.6	401.4	420.9	428.2	435.5	442.8	450.2	447.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	470.9	477.6	484.3	491.0	497.7	501.0	500.9	500.7	500.6	500.5	498.0
115°	586.9	586.0	585.1	584.2	583.4	581.8	579.6	577.4	575.2	572.9	570.9
117.5°	652.0	651.8	651.6	651.5	651.3	650.3	648.5	646.8	645.0	643.2	642.2
120°	696.7	696.7	696.7	696.7	696.7	695.8	694.0	692.3	690.5	688.7	688.1
122.5°	740.6	740.4	740.3	740.1	739.9	739.2	738.0	736.7	735.5	734.2	733.4
125°	802.5	802.1	801.6	801.2	800.7	800.3	799.8	799.4	799.0	798.5	797.6
127.5°	862.0	862.4	862.9	863.3	863.8	863.6	862.9	862.2	861.5	860.8	859.7
130°	900.3	900.8	901.2	901.7	902.1	901.9	901.0	900.1	899.2	898.3	897.4
132.5°	935.5	936.1	936.7	937.3	937.9	937.8	936.9	936.0	935.2	934.3	933.6
135°	989.2	989.8	990.5	991.2	991.8	991.8	991.2	990.5	989.8	989.2	988.3
137.5°	1039.7	1040.1	1040.6	1041.0	1041.4	1041.1	1040.1	1039.0	1037.9	1036.9	1036.4
140°	1070.0	1070.5	1070.9	1071.3	1071.8	1071.6	1070.7	1069.8	1068.9	1068.0	1067.4
142.5°	1098.0	1098.6	1099.2	1099.8	1100.4	1100.4	1099.7	1099.0	1098.3	1097.6	1096.9
145°	1140.9	1140.9	1140.9	1140.9	1140.9	1140.7	1140.2	1139.8	1139.3	1138.9	1138.4
147.5°	1172.8	1173.8	1174.9	1175.9	1176.9	1177.2	1176.7	1176.3	1175.9	1175.4	1175.0
150°	1196.8	1197.4	1198.1	1198.8	1199.4	1199.6	1199.1	1198.7	1198.2	1197.8	1197.3
152.5°	1215.9	1217.0	1218.0	1219.0	1220.0	1220.1	1219.3	1218.5	1217.7	1216.9	1216.7
155°	1242.7	1244.0	1245.4	1246.7	1248.0	1248.1	1247.0	1245.9	1244.8	1243.7	1243.5
157.5°	1265.3	1267.0	1268.7	1270.4	1272.2	1272.4	1271.0	1269.7	1268.4	1267.0	1267.3
160°	1279.6	1281.2	1282.7	1284.3	1285.8	1285.9	1284.6	1283.3	1282.0	1280.6	1280.8
162.5°	1293.2	1294.6	1295.9	1297.3	1298.7	1298.6	1297.1	1295.6	1294.1	1292.6	1292.8
165°	1309.6	1311.1	1312.7	1314.2	1315.8	1315.7	1313.9	1312.1	1310.3	1308.6	1308.8
167.5°	1321.3	1323.1	1324.9	1326.7	1328.4	1328.4	1326.7	1324.9	1323.1	1321.3	1321.3
170°	1328.5	1330.3	1332.1	1333.9	1335.6	1335.6	1333.9	1332.1	1330.3	1328.5	1328.5
172.5°	1332.5	1334.5	1336.4	1338.4	1340.3	1340.4	1338.6	1336.9	1335.1	1333.3	1333.1
175°	1338.5	1340.3	1342.1	1343.8	1345.6	1345.7	1344.2	1342.6	1341.1	1339.5	1339.3
177.5°	1340.3	1342.1	1343.9	1345.6	1347.4	1347.6	1346.2	1344.7	1343.3	1341.9	1341.7
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	815.0	812.6	810.1	805.8	802.1	796.9	795.4	793.6	788.1	783.1	779.5
5°	864.8	855.6	842.2	829.9	820.0	806.6	798.9	790.9	779.4	769.1	760.6
7.5°	916.9	898.8	878.0	855.5	834.5	814.2	797.9	783.4	767.3	752.0	740.2
10°	958.3	932.2	903.1	871.7	844.9	818.8	797.0	777.9	757.2	739.2	724.2
12.5°	1005.4	966.8	926.7	888.5	856.8	820.7	794.3	769.9	746.5	724.8	708.0
15°	1061.3	1012.3	964.8	912.3	864.0	818.8	787.4	756.8	729.6	707.4	685.9
17.5°	1112.1	1056.6	994.0	930.2	872.0	818.4	774.4	739.8	705.8	678.6	657.2
20°	1140.9	1077.7	1006.9	940.6	876.3	816.5	768.3	726.9	690.2	661.4	637.3
22.5°	1165.8	1091.8	1018.5	947.7	876.0	811.6	757.0	714.4	674.5	646.4	620.8
25°	1191.5	1103.0	1029.5	946.4	866.3	799.7	738.4	690.2	650.3	617.4	591.0
27.5°	1213.6	1102.3	1015.0	925.6	851.2	784.4	719.0	667.2	624.9	589.1	562.3
30°	1228.3	1103.8	1000.0	911.5	836.5	767.5	703.9	651.9	607.4	571.0	545.8
32.5°	1237.5	1102.9	986.2	891.9	813.2	752.2	687.7	633.8	588.1	552.4	528.0
35°	1242.8	1096.1	962.5	851.4	775.6	716.2	662.2	606.3	558.4	525.1	497.5
37.5°	1232.1	1082.0	934.9	812.3	729.3	670.9	625.4	577.8	532.0	495.3	471.5
40°	1215.2	1072.8	913.4	784.8	697.4	641.1	602.5	555.7	510.5	475.7	453.5
42.5°	1183.1	1054.1	889.9	754.1	664.3	608.0	572.4	533.4	490.6	457.9	435.7
45°	1104.6	1013.4	854.5	708.2	615.5	557.3	525.9	497.5	458.8	427.0	407.9
47.5°	995.6	952.2	803.3	659.7	564.5	508.5	475.8	453.0	424.7	399.1	380.7
50°	920.0	902.0	768.7	626.6	530.4	475.7	444.3	423.6	403.3	377.6	360.8
52.5°	832.6	843.7	728.2	592.3	495.8	442.0	412.4	396.0	377.6	356.5	341.8
55°	709.7	749.9	658.4	534.7	444.3	393.0	365.0	350.4	339.7	324.0	311.4
57.5°	594.6	645.7	582.8	475.3	393.6	349.4	322.6	306.7	299.8	291.6	281.7
60°	526.2	576.8	528.9	435.5	359.6	317.5	293.8	280.4	273.5	267.7	259.3
62.5°	465.3	516.4	476.2	395.0	326.2	287.2	266.5	253.4	248.0	245.0	237.8
65°	381.5	425.5	398.7	332.1	278.4	244.0	225.2	216.0	211.0	209.9	205.3
67.5°	310.5	344.0	324.5	275.4	233.2	203.4	187.5	179.7	175.9	175.5	172.0
70°	263.9	295.3	280.4	235.9	199.5	176.2	162.4	155.5	153.2	152.8	150.9
72.5°	227.7	249.6	237.8	200.7	172.6	151.4	141.2	134.0	131.4	132.0	130.7
75°	168.5	185.0	178.1	152.4	129.8	116.0	107.6	103.0	100.7	101.9	100.3
77.5°	121.3	131.7	125.5	107.7	93.8	83.8	77.6	74.8	72.7	72.6	71.9
80°	91.5	97.7	94.2	83.5	72.0	63.6	58.6	56.7	55.5	55.2	54.8
82.5°	65.2	70.4	66.3	59.0	51.2	46.1	43.3	40.8	39.9	40.1	39.8
85°	32.9	34.9	33.3	28.7	25.7	23.4	21.8	20.7	19.9	20.3	19.5
87.5°	15.0	14.7	13.2	11.5	10.4	9.1	8.6	7.6	7.4	7.8	8.0
90°	18.2	15.3	12.4	9.9	7.7	5.4	3.2	1.0	3.2	5.4	7.7
92.5°	21.2	19.0	16.9	16.1	16.7	17.3	17.9	18.6	17.9	17.3	16.7
95°	26.1	23.6	21.2	24.5	33.6	42.7	51.8	60.9	51.8	42.7	33.6
97.5°	64.1	80.1	96.0	106.0	110.1	114.2	118.3	122.4	118.3	114.2	110.1
100°	102.1	136.7	171.3	186.4	182.0	177.6	173.1	168.7	173.1	177.6	182.0
102.5°	141.3	179.1	216.9	234.2	231.0	227.8	224.6	221.4	224.6	227.8	231.0
105°	258.5	278.5	298.4	307.2	304.8	302.3	299.9	297.4	299.9	302.3	304.8
107.5°	394.4	391.2	388.1	385.5	383.6	381.6	379.7	377.7	379.7	381.6	383.6
110°	445.3	442.8	440.4	438.3	436.5	434.7	433.0	431.2	433.0	434.7	436.5



TEST NUMBER: P331937

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	495.6	493.2	490.7	488.7	487.1	485.5	483.9	482.3	483.9	485.5	487.1
115°	568.9	566.9	565.0	563.3	562.0	560.6	559.3	558.0	559.3	560.6	562.0
117.5°	641.2	640.1	639.1	637.8	636.2	634.5	632.9	631.2	632.9	634.5	636.2
120°	687.4	686.7	686.1	684.7	682.7	680.7	678.7	676.7	678.7	680.7	682.7
122.5°	732.6	731.7	730.9	729.6	728.0	726.3	724.7	723.1	724.7	726.3	728.0
125°	796.7	795.9	795.0	793.6	791.9	790.1	788.3	786.5	788.3	790.1	791.9
127.5°	858.7	857.6	856.5	855.1	853.3	851.6	849.8	848.0	849.8	851.6	853.3
130°	896.6	895.7	894.8	893.5	891.7	889.9	888.1	886.4	888.1	889.9	891.7
132.5°	932.8	932.1	931.4	930.2	928.4	926.6	924.9	923.1	924.9	926.6	928.4
135°	987.4	986.5	985.6	984.5	983.2	981.8	980.5	979.2	980.5	981.8	983.2
137.5°	1035.9	1035.4	1034.9	1033.8	1032.2	1030.5	1028.8	1027.1	1028.8	1030.5	1032.2
140°	1066.7	1066.0	1065.4	1064.4	1063.0	1061.7	1060.4	1059.0	1060.4	1061.7	1063.0
142.5°	1096.2	1095.6	1094.9	1093.9	1092.6	1091.2	1089.9	1088.6	1089.9	1091.2	1092.6
145°	1138.0	1137.6	1137.1	1136.1	1134.6	1133.0	1131.5	1129.9	1131.5	1133.0	1134.6
147.5°	1174.5	1174.1	1173.6	1172.9	1171.9	1170.9	1169.9	1168.8	1169.9	1170.9	1171.9
150°	1196.9	1196.4	1196.0	1195.4	1194.8	1194.1	1193.5	1192.8	1193.5	1194.1	1194.8
152.5°	1216.4	1216.1	1215.9	1215.6	1215.3	1215.0	1214.7	1214.3	1214.7	1215.0	1215.3
155°	1243.2	1243.0	1242.8	1242.9	1243.4	1243.8	1244.2	1244.7	1244.2	1243.8	1243.4
157.5°	1267.5	1267.7	1267.9	1268.1	1268.1	1268.2	1268.2	1268.2	1268.2	1268.2	1268.1
160°	1281.1	1281.3	1281.5	1281.7	1282.0	1282.2	1282.4	1282.6	1282.4	1282.2	1282.0
162.5°	1293.0	1293.3	1293.5	1293.9	1294.5	1295.0	1295.6	1296.2	1295.6	1295.0	1294.5
165°	1309.0	1309.2	1309.5	1309.9	1310.6	1311.2	1311.9	1312.6	1311.9	1311.2	1310.6
167.5°	1321.3	1321.3	1321.3	1321.8	1322.7	1323.6	1324.5	1325.3	1324.5	1323.6	1322.7
170°	1328.5	1328.5	1328.5	1329.0	1329.9	1330.8	1331.6	1332.5	1331.6	1330.8	1329.9
172.5°	1333.0	1332.8	1332.6	1333.1	1334.1	1335.2	1336.3	1337.3	1336.3	1335.2	1334.1
175°	1339.1	1338.8	1338.6	1339.1	1340.2	1341.3	1342.4	1343.5	1342.4	1341.3	1340.2
177.5°	1341.6	1341.4	1341.2	1341.6	1342.4	1343.3	1344.2	1345.1	1344.2	1343.3	1342.4
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P331937

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	777.3	775.2	772.1	767.5	763.8	758.0	758.0	758.9	758.9	758.6	758.0
5°	753.7	748.0	741.1	733.1	724.6	716.2	714.7	711.6	709.3	707.8	705.9
7.5°	728.8	718.7	708.6	697.4	687.1	678.6	672.7	667.8	664.6	661.3	658.8
10°	712.0	699.3	687.5	675.6	662.6	652.2	645.7	641.1	637.7	634.6	633.1
12.5°	692.1	677.6	664.5	653.2	639.0	628.3	622.1	620.0	615.9	609.5	606.1
15°	663.0	649.6	633.9	616.6	609.7	596.7	589.4	586.0	583.7	578.7	577.2
17.5°	638.1	620.5	602.9	590.0	577.2	566.7	562.6	558.3	555.3	551.2	550.0
20°	618.2	602.5	586.4	572.6	559.2	547.7	544.2	541.2	538.1	536.2	534.7
22.5°	597.9	582.2	568.9	556.0	541.7	534.2	530.4	527.1	524.9	523.6	522.1
25°	569.5	555.7	540.8	529.3	517.8	512.8	510.5	508.6	507.1	505.2	504.8
27.5°	544.1	529.1	517.0	506.2	498.0	493.8	491.6	490.7	491.0	491.7	492.1
30°	525.1	511.3	501.3	492.1	484.5	480.7	480.3	480.3	481.8	482.2	483.0
32.5°	507.6	496.3	486.3	477.4	471.6	469.0	470.5	470.5	471.7	472.7	474.1
35°	482.2	472.2	464.6	456.9	451.9	453.1	453.8	454.6	456.5	458.8	460.4
37.5°	457.9	449.3	441.3	435.3	433.0	435.1	436.9	438.5	440.8	442.5	444.0
40°	440.4	433.9	426.3	420.9	421.7	422.8	424.4	426.3	428.2	429.3	430.9
42.5°	424.2	417.4	411.6	407.1	408.2	409.7	410.6	411.6	413.8	415.9	416.8
45°	399.5	394.1	388.7	386.1	386.8	387.6	388.4	389.5	391.4	393.0	393.3
47.5°	371.7	367.9	364.3	361.7	362.9	362.6	363.6	366.1	366.7	367.6	369.7
50°	353.9	350.4	346.2	345.5	345.5	345.5	345.8	348.9	348.9	350.4	352.0
52.5°	334.3	332.1	329.4	328.0	327.4	327.4	329.0	330.5	331.1	333.3	334.8
55°	305.2	302.9	300.7	299.5	298.7	299.5	302.6	303.3	305.2	306.4	307.5
57.5°	275.0	273.2	271.4	270.8	270.6	271.6	273.3	275.6	276.1	279.6	281.3
60°	255.1	252.4	250.9	250.9	250.1	253.5	252.8	256.6	257.4	259.7	262.4
62.5°	234.5	230.9	230.3	230.3	231.4	232.4	233.5	235.2	237.2	240.1	242.1
65°	201.5	199.5	202.2	201.8	201.1	203.4	203.4	205.3	207.6	210.3	214.5
67.5°	170.1	169.1	169.4	169.4	170.5	171.8	172.9	174.6	177.3	180.2	182.9
70°	149.0	150.1	148.2	149.8	150.9	151.3	152.0	154.3	157.4	159.3	162.4
72.5°	128.5	128.4	128.6	129.2	130.4	131.1	131.8	134.4	137.8	139.4	141.9
75°	98.8	98.4	99.6	99.6	101.5	102.3	103.0	104.2	107.2	109.5	111.5
77.5°	72.2	72.6	72.4	73.7	73.2	73.3	75.7	76.8	77.1	81.7	82.7
80°	54.4	55.2	55.5	55.9	56.3	55.5	58.2	59.4	59.4	62.0	64.0
82.5°	39.1	39.5	40.5	40.9	41.0	41.7	42.0	42.8	43.7	44.9	47.4
85°	19.5	20.7	21.1	20.7	21.1	20.3	21.4	21.8	22.2	22.2	22.2
87.5°	8.1	8.9	9.2	10.1	10.3	11.2	11.4	11.0	11.1	12.2	11.1
90°	9.9	12.4	15.3	18.2	21.1	24.0	24.8	25.7	26.6	27.5	28.2
92.5°	16.1	16.9	19.0	21.2	23.4	25.6	27.0	28.4	29.8	31.2	32.1
95°	24.5	21.2	23.6	26.1	28.5	30.9	32.5	34.0	35.6	37.2	37.9
97.5°	106.0	96.0	80.1	64.1	48.1	32.1	33.9	35.7	37.5	39.2	40.2
100°	186.4	171.3	136.7	102.1	67.5	32.9	34.7	36.5	38.3	40.0	41.0
102.5°	234.2	216.9	179.1	141.3	103.5	65.7	60.2	54.7	49.2	43.7	41.1
105°	307.2	298.4	278.5	258.5	238.6	218.6	179.3	140.1	100.8	61.6	42.1
107.5°	385.5	388.1	391.2	394.4	397.5	400.7	371.9	343.1	314.3	285.5	256.3
110°	438.3	440.4	442.8	445.3	447.7	450.2	442.8	435.5	428.2	420.9	401.4



TEST NUMBER: P331937

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	488.7	490.7	493.2	495.6	498.0	500.5	500.6	500.7	500.9	501.0	497.7
115°	563.3	565.0	566.9	568.9	570.9	572.9	575.2	577.4	579.6	581.8	583.4
117.5°	637.8	639.1	640.1	641.2	642.2	643.2	645.0	646.8	648.5	650.3	651.3
120°	684.7	686.1	686.7	687.4	688.1	688.7	690.5	692.3	694.0	695.8	696.7
122.5°	729.6	730.9	731.7	732.6	733.4	734.2	735.5	736.7	738.0	739.2	739.9
125°	793.6	795.0	795.9	796.7	797.6	798.5	799.0	799.4	799.8	800.3	800.7
127.5°	855.1	856.5	857.6	858.7	859.7	860.8	861.5	862.2	862.9	863.6	863.8
130°	893.5	894.8	895.7	896.6	897.4	898.3	899.2	900.1	901.0	901.9	902.1
132.5°	930.2	931.4	932.1	932.8	933.6	934.3	935.2	936.0	936.9	937.8	937.9
135°	984.5	985.6	986.5	987.4	988.3	989.2	989.8	990.5	991.2	991.8	991.8
137.5°	1033.8	1034.9	1035.4	1035.9	1036.4	1036.9	1037.9	1039.0	1040.1	1041.1	1041.4
140°	1064.4	1065.4	1066.0	1066.7	1067.4	1068.0	1068.9	1069.8	1070.7	1071.6	1071.8
142.5°	1093.9	1094.9	1095.6	1096.2	1096.9	1097.6	1098.3	1099.0	1099.7	1100.4	1100.4
145°	1136.1	1137.1	1137.6	1138.0	1138.4	1138.9	1139.3	1139.8	1140.2	1140.7	1140.9
147.5°	1172.9	1173.6	1174.1	1174.5	1175.0	1175.4	1175.9	1176.3	1176.7	1177.2	1176.9
150°	1195.4	1196.0	1196.4	1196.9	1197.3	1197.8	1198.2	1198.7	1199.1	1199.6	1199.4
152.5°	1215.6	1215.9	1216.1	1216.4	1216.7	1216.9	1217.7	1218.5	1219.3	1220.1	1220.0
155°	1242.9	1242.8	1243.0	1243.2	1243.5	1243.7	1244.8	1245.9	1247.0	1248.1	1248.0
157.5°	1268.1	1267.9	1267.7	1267.5	1267.3	1267.0	1268.4	1269.7	1271.0	1272.4	1272.2
160°	1281.7	1281.5	1281.3	1281.1	1280.8	1280.6	1282.0	1283.3	1284.6	1285.9	1285.8
162.5°	1293.9	1293.5	1293.3	1293.0	1292.8	1292.6	1294.1	1295.6	1297.1	1298.6	1298.7
165°	1309.9	1309.5	1309.2	1309.0	1308.8	1308.6	1310.3	1312.1	1313.9	1315.7	1315.8
167.5°	1321.8	1321.3	1321.3	1321.3	1321.3	1321.3	1323.1	1324.9	1326.7	1328.4	1328.4
170°	1329.0	1328.5	1328.5	1328.5	1328.5	1328.5	1330.3	1332.1	1333.9	1335.6	1335.6
172.5°	1333.1	1332.6	1332.8	1333.0	1333.1	1333.3	1335.1	1336.9	1338.6	1340.4	1340.3
175°	1339.1	1338.6	1338.8	1339.1	1339.3	1339.5	1341.1	1342.6	1344.2	1345.7	1345.6
177.5°	1341.6	1341.2	1341.4	1341.6	1341.7	1341.9	1343.3	1344.7	1346.2	1347.6	1347.4
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P331937

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	755.9	755.6	757.7	756.2	757.7	755.6	755.9	758.0	758.6	758.9	758.9
5°	703.6	704.7	700.9	700.9	700.9	704.7	703.6	705.9	707.8	709.3	711.6
7.5°	657.0	655.3	655.5	653.4	655.5	655.3	657.0	658.8	661.3	664.6	667.8
10°	628.5	626.2	625.4	625.8	625.4	626.2	628.5	633.1	634.6	637.7	641.1
12.5°	604.9	604.4	599.4	599.5	599.4	604.4	604.9	606.1	609.5	615.9	620.0
15°	577.2	569.9	569.1	571.4	569.1	569.9	577.2	577.2	578.7	583.7	586.0
17.5°	549.4	545.5	545.8	544.6	545.8	545.5	549.4	550.0	551.2	555.3	558.3
20°	534.7	532.4	532.0	529.3	532.0	532.4	534.7	534.7	536.2	538.1	541.2
22.5°	521.2	520.4	520.6	517.7	520.6	520.4	521.2	522.1	523.6	524.9	527.1
25°	504.4	506.3	504.8	504.8	504.8	506.3	504.4	504.8	505.2	507.1	508.6
27.5°	493.1	493.0	492.2	492.2	492.2	493.0	493.1	492.1	491.7	491.0	490.7
30°	484.5	484.1	484.9	484.9	484.9	484.1	484.5	483.0	482.2	481.8	480.3
32.5°	475.9	476.4	476.6	476.9	476.6	476.4	475.9	474.1	472.7	471.7	470.5
35°	462.7	463.0	464.2	463.4	464.2	463.0	462.7	460.4	458.8	456.5	454.6
37.5°	444.7	446.5	446.1	446.7	446.1	446.5	444.7	444.0	442.5	440.8	438.5
40°	431.3	432.4	432.0	432.0	432.0	432.4	431.3	430.9	429.3	428.2	426.3
42.5°	417.5	418.3	417.3	416.7	417.3	418.3	417.5	416.8	415.9	413.8	411.6
45°	394.9	394.1	395.3	393.7	395.3	394.1	394.9	393.3	393.0	391.4	389.5
47.5°	369.6	370.4	370.7	371.8	370.7	370.4	369.6	369.7	367.6	366.7	366.1
50°	352.7	355.0	355.0	354.7	355.0	355.0	352.7	352.0	350.4	348.9	348.9
52.5°	336.2	337.3	338.8	338.7	338.8	337.3	336.2	334.8	333.3	331.1	330.5
55°	310.6	311.4	312.1	312.5	312.1	311.4	310.6	307.5	306.4	305.2	303.3
57.5°	284.1	283.8	285.6	286.2	285.6	283.8	284.1	281.3	279.6	276.1	275.6
60°	265.4	265.4	268.5	269.6	268.5	265.4	265.4	262.4	259.7	257.4	256.6
62.5°	245.5	246.7	249.8	248.2	249.8	246.7	245.5	242.1	240.1	237.2	235.2
65°	216.4	219.5	219.1	220.6	219.1	219.5	216.4	214.5	210.3	207.6	205.3
67.5°	186.0	187.9	190.7	190.9	190.7	187.9	186.0	182.9	180.2	177.3	174.6
70°	165.5	167.4	168.9	170.0	168.9	167.4	165.5	162.4	159.3	157.4	154.3
72.5°	145.5	146.5	150.2	148.6	150.2	146.5	145.5	141.9	139.4	137.8	134.4
75°	114.1	116.8	119.1	118.0	119.1	116.8	114.1	111.5	109.5	107.2	104.2
77.5°	84.4	87.1	88.2	87.2	88.2	87.1	84.4	82.7	81.7	77.1	76.8
80°	66.6	66.3	68.6	68.2	68.6	66.3	66.6	64.0	62.0	59.4	59.4
82.5°	48.9	48.5	49.6	49.8	49.6	48.5	48.9	47.4	44.9	43.7	42.8
85°	23.7	24.9	23.4	23.0	23.4	24.9	23.7	22.2	22.2	22.2	21.8
87.5°	11.2	11.3	11.1	10.9	11.1	11.3	11.2	11.1	12.2	11.1	11.0
90°	28.6	29.1	29.5	29.9	29.5	29.1	28.6	28.2	27.5	26.6	25.7
92.5°	32.3	32.6	32.9	33.1	32.9	32.6	32.3	32.1	31.2	29.8	28.4
95°	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.2	35.6	34.0
97.5°	40.5	40.7	40.9	41.1	40.9	40.7	40.5	40.2	39.2	37.5	35.7
100°	41.3	41.5	41.7	41.9	41.7	41.5	41.3	41.0	40.0	38.3	36.5
102.5°	41.5	41.9	42.3	42.7	42.3	41.9	41.5	41.1	43.7	49.2	54.7
105°	42.6	43.0	43.5	43.9	43.5	43.0	42.6	42.1	61.6	100.8	140.1
107.5°	226.7	197.1	167.5	137.9	167.5	197.1	226.7	256.3	285.5	314.3	343.1
110°	369.6	337.9	306.2	274.5	306.2	337.9	369.6	401.4	420.9	428.2	435.5



TEST NUMBER: P331937

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	491.0	484.3	477.6	470.9	477.6	484.3	491.0	497.7	501.0	500.9	500.7
115°	584.2	585.1	586.0	586.9	586.0	585.1	584.2	583.4	581.8	579.6	577.4
117.5°	651.5	651.6	651.8	652.0	651.8	651.6	651.5	651.3	650.3	648.5	646.8
120°	696.7	696.7	696.7	696.7	696.7	696.7	696.7	696.7	695.8	694.0	692.3
122.5°	740.1	740.3	740.4	740.6	740.4	740.3	740.1	739.9	739.2	738.0	736.7
125°	801.2	801.6	802.1	802.5	802.1	801.6	801.2	800.7	800.3	799.8	799.4
127.5°	863.3	862.9	862.4	862.0	862.4	862.9	863.3	863.8	863.6	862.9	862.2
130°	901.7	901.2	900.8	900.3	900.8	901.2	901.7	902.1	901.9	901.0	900.1
132.5°	937.3	936.7	936.1	935.5	936.1	936.7	937.3	937.9	937.8	936.9	936.0
135°	991.2	990.5	989.8	989.2	989.8	990.5	991.2	991.8	991.8	991.2	990.5
137.5°	1041.0	1040.6	1040.1	1039.7	1040.1	1040.6	1041.0	1041.4	1041.1	1040.1	1039.0
140°	1071.3	1070.9	1070.5	1070.0	1070.5	1070.9	1071.3	1071.8	1071.6	1070.7	1069.8
142.5°	1099.8	1099.2	1098.6	1098.0	1098.6	1099.2	1099.8	1100.4	1100.4	1099.7	1099.0
145°	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.7	1140.2	1139.8
147.5°	1175.9	1174.9	1173.8	1172.8	1173.8	1174.9	1175.9	1176.9	1177.2	1176.7	1176.3
150°	1198.8	1198.1	1197.4	1196.8	1197.4	1198.1	1198.8	1199.4	1199.6	1199.1	1198.7
152.5°	1219.0	1218.0	1217.0	1215.9	1217.0	1218.0	1219.0	1220.0	1220.1	1219.3	1218.5
155°	1246.7	1245.4	1244.0	1242.7	1244.0	1245.4	1246.7	1248.0	1248.1	1247.0	1245.9
157.5°	1270.4	1268.7	1267.0	1265.3	1267.0	1268.7	1270.4	1272.2	1272.4	1271.0	1269.7
160°	1284.3	1282.7	1281.2	1279.6	1281.2	1282.7	1284.3	1285.8	1285.9	1284.6	1283.3
162.5°	1297.3	1295.9	1294.6	1293.2	1294.6	1295.9	1297.3	1298.7	1298.6	1297.1	1295.6
165°	1314.2	1312.7	1311.1	1309.6	1311.1	1312.7	1314.2	1315.8	1315.7	1313.9	1312.1
167.5°	1326.7	1324.9	1323.1	1321.3	1323.1	1324.9	1326.7	1328.4	1328.4	1326.7	1324.9
170°	1333.9	1332.1	1330.3	1328.5	1330.3	1332.1	1333.9	1335.6	1335.6	1333.9	1332.1
172.5°	1338.4	1336.4	1334.5	1332.5	1334.5	1336.4	1338.4	1340.3	1340.4	1338.6	1336.9
175°	1343.8	1342.1	1340.3	1338.5	1340.3	1342.1	1343.8	1345.6	1345.7	1344.2	1342.6
177.5°	1345.6	1343.9	1342.1	1340.3	1342.1	1343.9	1345.6	1347.4	1347.6	1346.2	1344.7
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	758.0	758.0	763.8	767.5	772.1	775.2	777.3	779.5	783.1	788.1	793.6
5°	714.7	716.2	724.6	733.1	741.1	748.0	753.7	760.6	769.1	779.4	790.9
7.5°	672.7	678.6	687.1	697.4	708.6	718.7	728.8	740.2	752.0	767.3	783.4
10°	645.7	652.2	662.6	675.6	687.5	699.3	712.0	724.2	739.2	757.2	777.9
12.5°	622.1	628.3	639.0	653.2	664.5	677.6	692.1	708.0	724.8	746.5	769.9
15°	589.4	596.7	609.7	616.6	633.9	649.6	663.0	685.9	707.4	729.6	756.8
17.5°	562.6	566.7	577.2	590.0	602.9	620.5	638.1	657.2	678.6	705.8	739.8
20°	544.2	547.7	559.2	572.6	586.4	602.5	618.2	637.3	661.4	690.2	726.9
22.5°	530.4	534.2	541.7	556.0	568.9	582.2	597.9	620.8	646.4	674.5	714.4
25°	510.5	512.8	517.8	529.3	540.8	555.7	569.5	591.0	617.4	650.3	690.2
27.5°	491.6	493.8	498.0	506.2	517.0	529.1	544.1	562.3	589.1	624.9	667.2
30°	480.3	480.7	484.5	492.1	501.3	511.3	525.1	545.8	571.0	607.4	651.9
32.5°	470.5	469.0	471.6	477.4	486.3	496.3	507.6	528.0	552.4	588.1	633.8
35°	453.8	453.1	451.9	456.9	464.6	472.2	482.2	497.5	525.1	558.4	606.3
37.5°	436.9	435.1	433.0	435.3	441.3	449.3	457.9	471.5	495.3	532.0	577.8
40°	424.4	422.8	421.7	420.9	426.3	433.9	440.4	453.5	475.7	510.5	555.7
42.5°	410.6	409.7	408.2	407.1	411.6	417.4	424.2	435.7	457.9	490.6	533.4
45°	388.4	387.6	386.8	386.1	388.7	394.1	399.5	407.9	427.0	458.8	497.5
47.5°	363.6	362.6	362.9	361.7	364.3	367.9	371.7	380.7	399.1	424.7	453.0
50°	345.8	345.5	345.5	345.5	346.2	350.4	353.9	360.8	377.6	403.3	423.6
52.5°	329.0	327.4	327.4	328.0	329.4	332.1	334.3	341.8	356.5	377.6	396.0
55°	302.6	299.5	298.7	299.5	300.7	302.9	305.2	311.4	324.0	339.7	350.4
57.5°	273.3	271.6	270.6	270.8	271.4	273.2	275.0	281.7	291.6	299.8	306.7
60°	252.8	253.5	250.1	250.9	250.9	252.4	255.1	259.3	267.7	273.5	280.4
62.5°	233.5	232.4	231.4	230.3	230.3	230.9	234.5	237.8	245.0	248.0	253.4
65°	203.4	203.4	201.1	201.8	202.2	199.5	201.5	205.3	209.9	211.0	216.0
67.5°	172.9	171.8	170.5	169.4	169.4	169.1	170.1	172.0	175.5	175.9	179.7
70°	152.0	151.3	150.9	149.8	148.2	150.1	149.0	150.9	152.8	153.2	155.5
72.5°	131.8	131.1	130.4	129.2	128.6	128.4	128.5	130.7	132.0	131.4	134.0
75°	103.0	102.3	101.5	99.6	99.6	98.4	98.8	100.3	101.9	100.7	103.0
77.5°	75.7	73.3	73.2	73.7	72.4	72.6	72.2	71.9	72.6	72.7	74.8
80°	58.2	55.5	56.3	55.9	55.5	55.2	54.4	54.8	55.2	55.5	56.7
82.5°	42.0	41.7	41.0	40.9	40.5	39.5	39.1	39.8	40.1	39.9	40.8
85°	21.4	20.3	21.1	20.7	21.1	20.7	19.5	19.5	20.3	19.9	20.7
87.5°	11.4	11.2	10.3	10.1	9.2	8.9	8.1	8.0	7.8	7.4	7.6
90°	24.8	24.0	21.1	18.2	15.3	12.4	9.9	7.7	5.4	3.2	1.0
92.5°	27.0	25.6	23.4	21.2	19.0	16.9	16.1	16.7	17.3	17.9	18.6
95°	32.5	30.9	28.5	26.1	23.6	21.2	24.5	33.6	42.7	51.8	60.9
97.5°	33.9	32.1	48.1	64.1	80.1	96.0	106.0	110.1	114.2	118.3	122.4
100°	34.7	32.9	67.5	102.1	136.7	171.3	186.4	182.0	177.6	173.1	168.7
102.5°	60.2	65.7	103.5	141.3	179.1	216.9	234.2	231.0	227.8	224.6	221.4
105°	179.3	218.6	238.6	258.5	278.5	298.4	307.2	304.8	302.3	299.9	297.4
107.5°	371.9	400.7	397.5	394.4	391.2	388.1	385.5	383.6	381.6	379.7	377.7
110°	442.8	450.2	447.7	445.3	442.8	440.4	438.3	436.5	434.7	433.0	431.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	500.6	500.5	498.0	495.6	493.2	490.7	488.7	487.1	485.5	483.9	482.3
115°	575.2	572.9	570.9	568.9	566.9	565.0	563.3	562.0	560.6	559.3	558.0
117.5°	645.0	643.2	642.2	641.2	640.1	639.1	637.8	636.2	634.5	632.9	631.2
120°	690.5	688.7	688.1	687.4	686.7	686.1	684.7	682.7	680.7	678.7	676.7
122.5°	735.5	734.2	733.4	732.6	731.7	730.9	729.6	728.0	726.3	724.7	723.1
125°	799.0	798.5	797.6	796.7	795.9	795.0	793.6	791.9	790.1	788.3	786.5
127.5°	861.5	860.8	859.7	858.7	857.6	856.5	855.1	853.3	851.6	849.8	848.0
130°	899.2	898.3	897.4	896.6	895.7	894.8	893.5	891.7	889.9	888.1	886.4
132.5°	935.2	934.3	933.6	932.8	932.1	931.4	930.2	928.4	926.6	924.9	923.1
135°	989.8	989.2	988.3	987.4	986.5	985.6	984.5	983.2	981.8	980.5	979.2
137.5°	1037.9	1036.9	1036.4	1035.9	1035.4	1034.9	1033.8	1032.2	1030.5	1028.8	1027.1
140°	1068.9	1068.0	1067.4	1066.7	1066.0	1065.4	1064.4	1063.0	1061.7	1060.4	1059.0
142.5°	1098.3	1097.6	1096.9	1096.2	1095.6	1094.9	1093.9	1092.6	1091.2	1089.9	1088.6
145°	1139.3	1138.9	1138.4	1138.0	1137.6	1137.1	1136.1	1134.6	1133.0	1131.5	1129.9
147.5°	1175.9	1175.4	1175.0	1174.5	1174.1	1173.6	1172.9	1171.9	1170.9	1169.9	1168.8
150°	1198.2	1197.8	1197.3	1196.9	1196.4	1196.0	1195.4	1194.8	1194.1	1193.5	1192.8
152.5°	1217.7	1216.9	1216.7	1216.4	1216.1	1215.9	1215.6	1215.3	1215.0	1214.7	1214.3
155°	1244.8	1243.7	1243.5	1243.2	1243.0	1242.8	1242.9	1243.4	1243.8	1244.2	1244.7
157.5°	1268.4	1267.0	1267.3	1267.5	1267.7	1267.9	1268.1	1268.1	1268.2	1268.2	1268.2
160°	1282.0	1280.6	1280.8	1281.1	1281.3	1281.5	1281.7	1282.0	1282.2	1282.4	1282.6
162.5°	1294.1	1292.6	1292.8	1293.0	1293.3	1293.5	1293.9	1294.5	1295.0	1295.6	1296.2
165°	1310.3	1308.6	1308.8	1309.0	1309.2	1309.5	1309.9	1310.6	1311.2	1311.9	1312.6
167.5°	1323.1	1321.3	1321.3	1321.3	1321.3	1321.3	1321.8	1322.7	1323.6	1324.5	1325.3
170°	1330.3	1328.5	1328.5	1328.5	1328.5	1328.5	1329.0	1329.9	1330.8	1331.6	1332.5
172.5°	1335.1	1333.3	1333.1	1333.0	1332.8	1332.6	1333.1	1334.1	1335.2	1336.3	1337.3
175°	1341.1	1339.5	1339.3	1339.1	1338.8	1338.6	1339.1	1340.2	1341.3	1342.4	1343.5
177.5°	1343.3	1341.9	1341.7	1341.6	1341.4	1341.2	1341.6	1342.4	1343.3	1344.2	1345.1
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P331937

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	795.4	796.9	802.1	805.8	810.1	812.6	815.0	816.9	819.3	819.9	828.8
5°	798.9	806.6	820.0	829.9	842.2	855.6	864.8	869.0	880.1	889.3	907.7
7.5°	797.9	814.2	834.5	855.5	878.0	898.8	916.9	938.3	953.6	976.5	999.1
10°	797.0	818.8	844.9	871.7	903.1	932.2	958.3	987.4	1011.5	1043.3	1070.5
12.5°	794.3	820.7	856.8	888.5	926.7	966.8	1005.4	1042.8	1064.2	1117.1	1142.2
15°	787.4	818.8	864.0	912.3	964.8	1012.3	1061.3	1100.3	1163.5	1209.9	1239.4
17.5°	774.4	818.4	872.0	930.2	994.0	1056.6	1112.1	1171.4	1238.5	1294.5	1354.3
20°	768.3	816.5	876.3	940.6	1006.9	1077.7	1140.9	1212.2	1285.3	1340.5	1417.1
22.5°	757.0	811.6	876.0	947.7	1018.5	1091.8	1165.8	1237.6	1322.1	1398.1	1471.0
25°	738.4	799.7	866.3	946.4	1029.5	1103.0	1191.5	1286.9	1375.0	1472.6	1545.4
27.5°	719.0	784.4	851.2	925.6	1015.0	1102.3	1213.6	1321.3	1429.0	1513.4	1567.2
30°	703.9	767.5	836.5	911.5	1000.0	1103.8	1228.3	1345.8	1450.8	1523.2	1553.4
32.5°	687.7	752.2	813.2	891.9	986.2	1102.9	1237.5	1360.2	1452.0	1500.2	1494.3
35°	662.2	716.2	775.6	851.4	962.5	1096.1	1242.8	1361.5	1417.8	1407.5	1329.4
37.5°	625.4	670.9	729.3	812.3	934.9	1082.0	1232.1	1321.2	1317.5	1233.3	1120.1
40°	602.5	641.1	697.4	784.8	913.4	1072.8	1215.2	1273.1	1224.1	1106.5	970.9
42.5°	572.4	608.0	664.3	754.1	889.9	1054.1	1183.1	1199.8	1103.9	968.6	844.4
45°	525.9	557.3	615.5	708.2	854.5	1013.4	1104.6	1063.6	934.5	794.7	700.1
47.5°	475.8	508.5	564.5	659.7	803.3	952.2	995.6	908.5	775.9	662.6	575.7
50°	444.3	475.7	530.4	626.6	768.7	902.0	920.0	807.4	685.6	586.0	514.7
52.5°	412.4	442.0	495.8	592.3	728.2	843.7	832.6	717.9	605.9	521.0	465.1
55°	365.0	393.0	444.3	534.7	658.4	749.9	709.7	600.2	507.5	441.6	399.1
57.5°	322.6	349.4	393.6	475.3	582.8	645.7	594.6	502.3	428.6	377.9	346.2
60°	293.8	317.5	359.6	435.5	528.9	576.8	526.2	444.7	382.6	342.0	313.7
62.5°	266.5	287.2	326.2	395.0	476.2	516.4	465.3	396.2	343.4	307.4	283.3
65°	225.2	244.0	278.4	332.1	398.7	425.5	381.5	325.5	284.6	257.8	241.7
67.5°	187.5	203.4	233.2	275.4	324.5	344.0	310.5	267.2	236.3	214.8	202.0
70°	162.4	176.2	199.5	235.9	280.4	295.3	263.9	228.3	205.7	188.4	176.6
72.5°	141.2	151.4	172.6	200.7	237.8	249.6	227.7	196.4	175.3	162.4	153.0
75°	107.6	116.0	129.8	152.4	178.1	185.0	168.5	149.0	134.8	125.6	118.3
77.5°	77.6	83.8	93.8	107.7	125.5	131.7	121.3	108.2	97.9	91.7	87.6
80°	58.6	63.6	72.0	83.5	94.2	97.7	91.5	81.6	74.3	70.9	67.4
82.5°	43.3	46.1	51.2	59.0	66.3	70.4	65.2	59.2	55.3	52.2	50.9
85°	21.8	23.4	25.7	28.7	33.3	34.9	32.9	31.4	29.1	27.2	27.2
87.5°	8.6	9.1	10.4	11.5	13.2	14.7	15.0	14.9	15.2	15.1	15.0
90°	3.2	5.4	7.7	9.9	12.4	15.3	18.2	21.1	24.0	24.8	25.7
92.5°	17.9	17.3	16.7	16.1	16.9	19.0	21.2	23.4	25.6	27.0	28.4
95°	51.8	42.7	33.6	24.5	21.2	23.6	26.1	28.5	30.9	32.5	34.0
97.5°	118.3	114.2	110.1	106.0	96.0	80.1	64.1	48.1	32.1	33.9	35.7
100°	173.1	177.6	182.0	186.4	171.3	136.7	102.1	67.5	32.9	34.7	36.5
102.5°	224.6	227.8	231.0	234.2	216.9	179.1	141.3	103.5	65.7	60.2	54.7
105°	299.9	302.3	304.8	307.2	298.4	278.5	258.5	238.6	218.6	179.3	140.1
107.5°	379.7	381.6	383.6	385.5	388.1	391.2	394.4	397.5	400.7	371.9	343.1
110°	433.0	434.7	436.5	438.3	440.4	442.8	445.3	447.7	450.2	442.8	435.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	483.9	485.5	487.1	488.7	490.7	493.2	495.6	498.0	500.5	500.6	500.7
115°	559.3	560.6	562.0	563.3	565.0	566.9	568.9	570.9	572.9	575.2	577.4
117.5°	632.9	634.5	636.2	637.8	639.1	640.1	641.2	642.2	643.2	645.0	646.8
120°	678.7	680.7	682.7	684.7	686.1	686.7	687.4	688.1	688.7	690.5	692.3
122.5°	724.7	726.3	728.0	729.6	730.9	731.7	732.6	733.4	734.2	735.5	736.7
125°	788.3	790.1	791.9	793.6	795.0	795.9	796.7	797.6	798.5	799.0	799.4
127.5°	849.8	851.6	853.3	855.1	856.5	857.6	858.7	859.7	860.8	861.5	862.2
130°	888.1	889.9	891.7	893.5	894.8	895.7	896.6	897.4	898.3	899.2	900.1
132.5°	924.9	926.6	928.4	930.2	931.4	932.1	932.8	933.6	934.3	935.2	936.0
135°	980.5	981.8	983.2	984.5	985.6	986.5	987.4	988.3	989.2	989.8	990.5
137.5°	1028.8	1030.5	1032.2	1033.8	1034.9	1035.4	1035.9	1036.4	1036.9	1037.9	1039.0
140°	1060.4	1061.7	1063.0	1064.4	1065.4	1066.0	1066.7	1067.4	1068.0	1068.9	1069.8
142.5°	1089.9	1091.2	1092.6	1093.9	1094.9	1095.6	1096.2	1096.9	1097.6	1098.3	1099.0
145°	1131.5	1133.0	1134.6	1136.1	1137.1	1137.6	1138.0	1138.4	1138.9	1139.3	1139.8
147.5°	1169.9	1170.9	1171.9	1172.9	1173.6	1174.1	1174.5	1175.0	1175.4	1175.9	1176.3
150°	1193.5	1194.1	1194.8	1195.4	1196.0	1196.4	1196.9	1197.3	1197.8	1198.2	1198.7
152.5°	1214.7	1215.0	1215.3	1215.6	1215.9	1216.1	1216.4	1216.7	1216.9	1217.7	1218.5
155°	1244.2	1243.8	1243.4	1242.9	1242.8	1243.0	1243.2	1243.5	1243.7	1244.8	1245.9
157.5°	1268.2	1268.2	1268.1	1268.1	1267.9	1267.7	1267.5	1267.3	1267.0	1268.4	1269.7
160°	1282.4	1282.2	1282.0	1281.7	1281.5	1281.3	1281.1	1280.8	1280.6	1282.0	1283.3
162.5°	1295.6	1295.0	1294.5	1293.9	1293.5	1293.3	1293.0	1292.8	1292.6	1294.1	1295.6
165°	1311.9	1311.2	1310.6	1309.9	1309.5	1309.2	1309.0	1308.8	1308.6	1310.3	1312.1
167.5°	1324.5	1323.6	1322.7	1321.8	1321.3	1321.3	1321.3	1321.3	1321.3	1323.1	1324.9
170°	1331.6	1330.8	1329.9	1329.0	1328.5	1328.5	1328.5	1328.5	1328.5	1330.3	1332.1
172.5°	1336.3	1335.2	1334.1	1333.1	1332.6	1332.8	1333.0	1333.1	1333.3	1335.1	1336.9
175°	1342.4	1341.3	1340.2	1339.1	1338.6	1338.8	1339.1	1339.3	1339.5	1341.1	1342.6
177.5°	1344.2	1343.3	1342.4	1341.6	1341.2	1341.4	1341.6	1341.7	1341.9	1343.3	1344.7
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	831.9	832.2	835.5	838.0	836.8	838.3	838.9
5°	908.8	922.6	929.9	935.3	935.7	936.0	939.1
7.5°	1018.0	1032.8	1043.6	1060.0	1064.9	1070.5	1068.9
10°	1097.7	1119.5	1138.3	1148.2	1158.9	1174.6	1162.0
12.5°	1172.1	1210.8	1239.4	1254.8	1265.0	1268.1	1261.9
15°	1294.9	1345.5	1372.7	1371.9	1406.4	1421.3	1397.9
17.5°	1407.5	1454.2	1491.5	1510.7	1539.4	1545.8	1542.9
20°	1476.4	1527.4	1556.5	1589.4	1604.4	1617.8	1620.1
22.5°	1535.9	1581.6	1612.9	1640.3	1652.8	1659.1	1663.0
25°	1597.1	1633.1	1651.9	1661.4	1664.9	1664.1	1659.1
27.5°	1592.9	1595.6	1575.0	1554.7	1536.5	1516.0	1509.0
30°	1551.5	1519.3	1461.9	1429.3	1381.5	1343.5	1358.9
32.5°	1442.7	1378.7	1314.2	1243.0	1184.1	1167.4	1150.5
35°	1231.3	1118.7	1052.9	976.3	945.6	915.0	893.9
37.5°	996.2	909.1	830.9	780.8	750.1	730.8	720.3
40°	861.4	782.8	718.5	677.9	654.5	632.7	629.6
42.5°	753.8	680.8	632.4	600.1	577.6	568.4	561.6
45°	617.4	566.4	533.9	510.9	496.0	490.2	482.6
47.5°	522.6	486.6	462.1	446.5	435.2	430.9	430.3
50°	469.6	439.7	421.7	409.4	400.6	399.1	393.0
52.5°	429.7	403.8	389.8	379.1	372.7	368.4	366.6
55°	373.0	355.8	343.2	337.0	332.1	327.8	327.8
57.5°	326.4	312.0	303.6	298.4	296.9	293.9	292.0
60°	297.6	285.3	278.8	274.2	271.2	271.5	268.1
62.5°	269.4	261.4	255.2	250.6	247.0	247.0	247.3
65°	229.4	223.3	218.7	217.2	214.9	212.2	212.9
67.5°	194.4	188.7	185.1	182.5	181.7	180.2	182.5
70°	169.3	165.1	162.4	160.1	159.3	159.7	161.6
72.5°	146.3	143.3	141.6	140.5	138.8	138.9	140.2
75°	114.9	112.6	111.1	109.9	109.5	109.5	109.5
77.5°	84.4	83.9	83.2	81.5	81.6	82.0	82.1
80°	66.6	65.5	65.1	64.3	63.2	62.4	64.3
82.5°	49.8	48.6	48.3	48.1	46.3	46.2	47.8
85°	26.8	25.7	26.0	25.7	25.7	25.3	25.3
87.5°	14.8	14.7	14.5	14.9	14.7	14.5	15.2
90°	26.6	27.5	28.2	28.6	29.1	29.5	29.9
92.5°	29.8	31.2	32.1	32.3	32.6	32.9	33.1
95°	35.6	37.2	37.9	37.9	37.9	37.9	37.9
97.5°	37.5	39.2	40.2	40.5	40.7	40.9	41.1
100°	38.3	40.0	41.0	41.3	41.5	41.7	41.9
102.5°	49.2	43.7	41.1	41.5	41.9	42.3	42.7
105°	100.8	61.6	42.1	42.6	43.0	43.5	43.9
107.5°	314.3	285.5	256.3	226.7	197.1	167.5	137.9
110°	428.2	420.9	401.4	369.6	337.9	306.2	274.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	500.9	501.0	497.7	491.0	484.3	477.6	470.9
115°	579.6	581.8	583.4	584.2	585.1	586.0	586.9
117.5°	648.5	650.3	651.3	651.5	651.6	651.8	652.0
120°	694.0	695.8	696.7	696.7	696.7	696.7	696.7
122.5°	738.0	739.2	739.9	740.1	740.3	740.4	740.6
125°	799.8	800.3	800.7	801.2	801.6	802.1	802.5
127.5°	862.9	863.6	863.8	863.3	862.9	862.4	862.0
130°	901.0	901.9	902.1	901.7	901.2	900.8	900.3
132.5°	936.9	937.8	937.9	937.3	936.7	936.1	935.5
135°	991.2	991.8	991.8	991.2	990.5	989.8	989.2
137.5°	1040.1	1041.1	1041.4	1041.0	1040.6	1040.1	1039.7
140°	1070.7	1071.6	1071.8	1071.3	1070.9	1070.5	1070.0
142.5°	1099.7	1100.4	1100.4	1099.8	1099.2	1098.6	1098.0
145°	1140.2	1140.7	1140.9	1140.9	1140.9	1140.9	1140.9
147.5°	1176.7	1177.2	1176.9	1175.9	1174.9	1173.8	1172.8
150°	1199.1	1199.6	1199.4	1198.8	1198.1	1197.4	1196.8
152.5°	1219.3	1220.1	1220.0	1219.0	1218.0	1217.0	1215.9
155°	1247.0	1248.1	1248.0	1246.7	1245.4	1244.0	1242.7
157.5°	1271.0	1272.4	1272.2	1270.4	1268.7	1267.0	1265.3
160°	1284.6	1285.9	1285.8	1284.3	1282.7	1281.2	1279.6
162.5°	1297.1	1298.6	1298.7	1297.3	1295.9	1294.6	1293.2
165°	1313.9	1315.7	1315.8	1314.2	1312.7	1311.1	1309.6
167.5°	1326.7	1328.4	1328.4	1326.7	1324.9	1323.1	1321.3
170°	1333.9	1335.6	1335.6	1333.9	1332.1	1330.3	1328.5
172.5°	1338.6	1340.4	1340.3	1338.4	1336.4	1334.5	1332.5
175°	1344.2	1345.7	1345.6	1343.8	1342.1	1340.3	1338.5
177.5°	1346.2	1347.6	1347.4	1345.6	1343.9	1342.1	1340.3
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5

(END OF REPORT)