

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: P332139

Luminaire Tested: **S123DIW-S560D1320U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332139
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S560D1320U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6965.3 lumens
Efficiency: N/A
Efficacy: 129.5 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

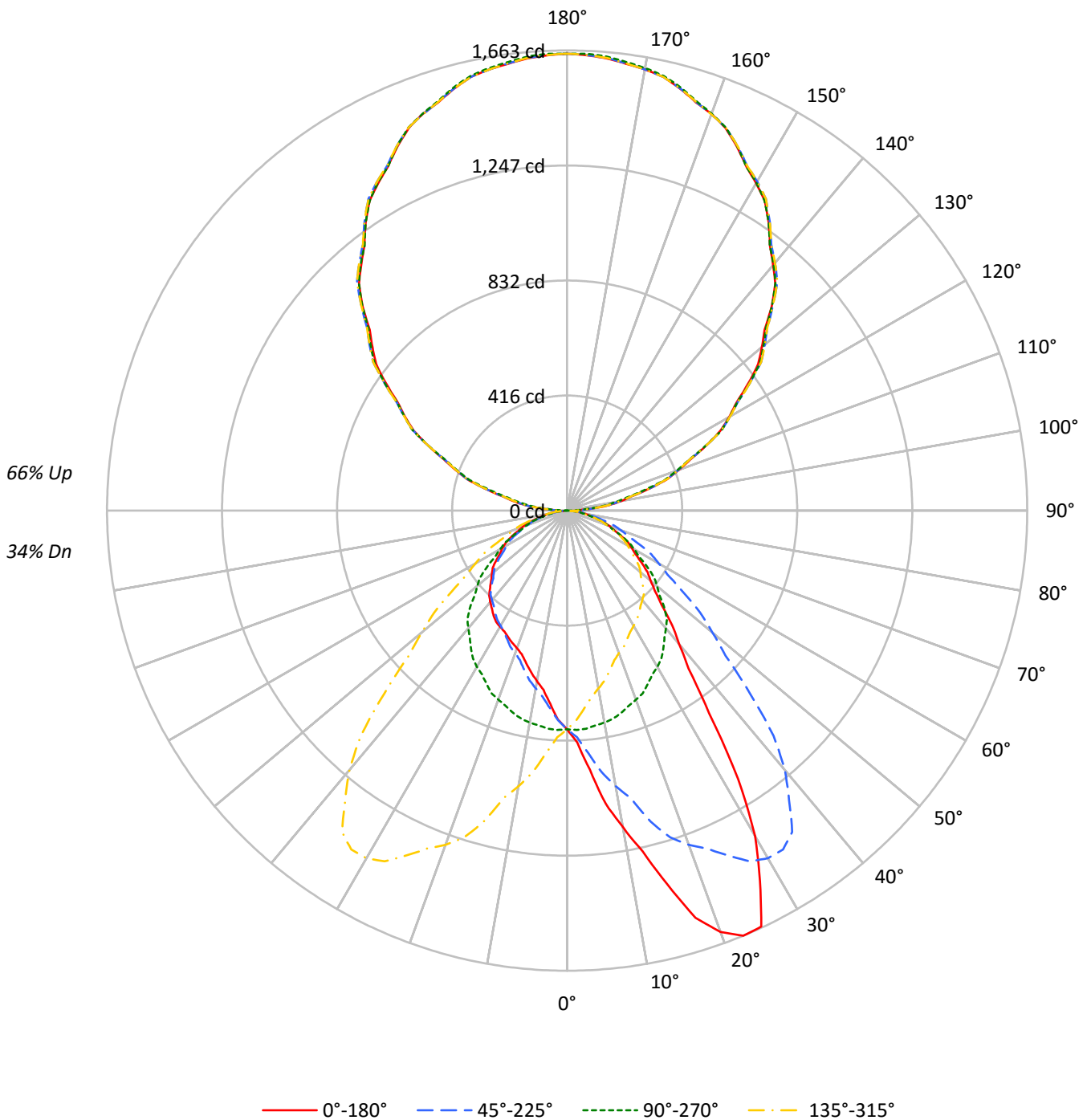
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42	34								
1	94	90	87	83	85	82	79	76	66	63	61	51	49	48	37	36	36	29								
2	86	79	73	68	78	72	67	62	58	54	51	45	42	40	33	31	30	25								
3	79	70	63	57	71	63	57	52	51	47	43	40	37	34	29	27	26	21								
4	72	62	54	48	65	56	49	44	45	41	37	35	32	29	26	24	22	18								
5	66	55	47	41	59	50	43	38	40	36	32	32	28	26	24	21	20	16								
6	61	49	41	36	55	45	38	33	36	31	28	29	25	22	21	19	17	14								
7	56	44	37	31	51	40	34	29	33	28	24	26	22	20	20	17	15	12								
8	52	40	33	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11								
9	48	36	29	24	44	33	27	23	27	23	19	22	18	16	17	14	12	10								
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11	9								

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	1.1
10°-20°	249.7	3.6
20°-30°	419.1	6.0
30°-40°	474.5	6.8
40°-50°	425.5	6.1
50°-60°	343.4	4.9
60°-70°	239.3	3.4
70°-80°	125.8	1.8
80°-90°	35.6	0.5
90°-100°	107.6	1.5
100°-110°	321.9	4.6
110°-120°	547.5	7.9
120°-130°	720.2	10.3
130°-140°	809.5	11.6
140°-150°	795.7	11.4
150°-160°	669.9	9.6
160°-170°	445.9	6.4
170°-180°	156.2	2.2
0°-30°	746.6	10.7
0°-40°	1221.1	17.5
0°-60°	1990.1	28.6
0°-90°	2390.8	34.3
90°-120°	977.1	14.0
90°-150°	3302.5	47.4
90°-180°	4574.0	65.7
0°-180°	6965.3	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°	39	1	39	1	39	20
95°	101	76	101	76	101	104
105°	309	292	309	292	309	328
115°	552	551	552	551	552	547
125°	798	807	798	807	798	713
135°	1045	1047	1045	1047	1045	804
145°	1270	1270	1270	1270	1270	793
155°	1451	1454	1451	1454	1451	668
165°	1578	1584	1578	1584	1578	445
175°	1641	1647	1641	1647	1641	156
180°	1651	1651	1651	1651	1651	



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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°	17.0	16.2	16.4	16.6	16.2	16.3	16.4	16.5	16.6	16.6	16.2
90°	38.9	38.3	37.8	37.2	36.6	35.7	34.6	33.4	32.3	31.1	27.4
92.5°	52.4	52.7	53.1	53.4	53.8	53.5	52.6	51.6	50.7	49.8	47.7
95°	101.2	101.2	101.2	101.2	101.2	100.6	99.4	98.3	97.1	96.0	93.7
97.5°	155.6	155.8	155.9	156.0	156.1	155.5	154.2	152.8	151.5	150.2	148.5
100°	197.1	196.6	196.0	195.4	194.8	194.1	193.2	192.4	191.5	190.7	189.2
102.5°	239.7	239.8	239.9	240.0	240.1	239.8	238.9	238.0	237.2	236.3	234.4
105°	308.7	308.1	307.5	307.0	306.4	306.1	306.1	306.1	306.1	306.1	303.5
107.5°	380.5	380.9	381.2	381.6	381.9	381.6	380.7	379.8	378.9	377.9	376.9
110°	429.3	429.9	430.5	431.0	431.6	431.3	430.2	429.0	427.9	426.7	426.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	481.2	481.3	481.4	481.5	481.6	481.0	479.6	478.2	476.9	475.5	475.4
115°	552.5	552.8	553.1	553.4	553.7	553.7	553.4	553.1	552.8	552.5	553.1
117.5°	624.9	625.7	626.5	627.3	628.1	628.5	628.6	628.7	628.7	628.8	629.5
120°	675.7	676.3	676.9	677.5	678.0	678.5	678.8	679.0	679.3	679.6	681.1
122.5°	724.5	725.3	726.1	726.9	727.7	728.5	729.2	730.0	730.7	731.5	732.2
125°	797.6	798.8	799.9	801.1	802.3	803.4	804.6	805.7	806.9	808.0	808.6
127.5°	870.5	871.9	873.2	874.5	875.8	877.3	878.9	880.5	882.1	883.8	884.4
130°	918.3	920.3	922.3	924.3	926.3	927.9	929.1	930.2	931.4	932.5	933.4
132.5°	968.1	969.6	971.2	972.7	974.3	975.8	977.1	978.5	979.9	981.3	981.9
135°	1045.4	1045.9	1046.5	1047.1	1047.7	1048.5	1049.7	1050.8	1052.0	1053.1	1053.4
137.5°	1113.6	1114.7	1115.8	1116.9	1118.0	1119.1	1120.3	1121.5	1122.7	1124.0	1123.2
140°	1158.2	1160.2	1162.2	1164.3	1166.3	1167.4	1167.7	1168.0	1168.3	1168.6	1168.3
142.5°	1203.9	1205.4	1207.0	1208.5	1210.1	1211.0	1211.3	1211.6	1211.9	1212.2	1211.6
145°	1269.7	1270.9	1272.0	1273.2	1274.4	1275.1	1275.4	1275.6	1275.9	1276.2	1275.4
147.5°	1328.4	1330.1	1331.8	1333.6	1335.3	1336.1	1336.1	1336.1	1336.1	1336.1	1335.3
150°	1365.7	1367.4	1369.2	1370.9	1372.6	1373.5	1373.5	1373.5	1373.5	1373.5	1372.9
152.5°	1402.0	1403.5	1405.0	1406.5	1408.0	1408.5	1408.1	1407.6	1407.2	1406.7	1406.4
155°	1451.3	1453.3	1455.4	1457.4	1459.4	1459.8	1458.7	1457.5	1456.4	1455.2	1454.9
157.5°	1496.2	1497.8	1499.4	1501.0	1502.6	1502.9	1501.6	1500.4	1499.2	1498.0	1497.8
160°	1525.2	1526.4	1527.6	1528.7	1529.9	1529.7	1528.3	1526.8	1525.4	1523.9	1523.9
162.5°	1547.0	1548.9	1550.7	1552.6	1554.4	1554.6	1553.2	1551.7	1550.3	1548.8	1548.6
165°	1578.4	1580.4	1582.5	1584.5	1586.5	1586.6	1584.9	1583.2	1581.4	1579.7	1579.7
167.5°	1605.1	1606.9	1608.7	1610.5	1612.3	1612.3	1610.5	1608.7	1606.9	1605.1	1604.9
170°	1618.6	1620.6	1622.7	1624.7	1626.7	1626.7	1624.7	1622.7	1620.6	1618.6	1618.6
172.5°	1629.0	1631.0	1633.0	1635.1	1637.1	1637.2	1635.4	1633.6	1631.8	1630.0	1630.0
175°	1640.7	1642.7	1644.7	1646.7	1648.7	1648.9	1647.2	1645.4	1643.7	1642.0	1642.0
177.5°	1646.9	1648.5	1650.1	1651.7	1653.4	1653.5	1652.1	1650.7	1649.3	1647.9	1647.9
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



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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°	16.1	15.6	14.0	12.1	10.9	9.4	8.8	7.6	7.6	8.2	8.4
90°	23.6	19.9	16.1	12.8	9.9	7.1	4.2	1.3	4.2	7.1	9.9
92.5°	45.5	43.4	41.3	39.2	37.3	35.3	33.3	31.4	33.3	35.3	37.3
95°	91.4	89.1	86.8	84.6	82.6	80.6	78.5	76.5	78.5	80.6	82.6
97.5°	146.8	145.2	143.5	141.9	140.4	138.9	137.4	135.9	137.4	138.9	140.4
100°	187.8	186.3	184.9	183.3	181.6	179.8	178.1	176.4	178.1	179.8	181.6
102.5°	232.5	230.6	228.7	227.2	226.2	225.2	224.1	223.1	224.1	225.2	226.2
105°	300.9	298.3	295.7	294.1	293.5	293.0	292.4	291.8	292.4	293.0	293.5
107.5°	375.9	374.8	373.8	373.1	372.8	372.4	372.1	371.7	372.1	372.4	372.8
110°	425.6	425.0	424.4	423.8	423.2	422.7	422.1	421.5	422.1	422.7	423.2



TEST NUMBER: P332139

CATALOG NUMBER: S123DIW-S560D1320U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	475.2	475.1	475.0	474.8	474.4	474.1	473.7	473.4	473.7	474.1	474.4
115°	553.7	554.2	554.8	554.7	553.8	552.9	552.1	551.2	552.1	552.9	553.8
117.5°	630.3	631.0	631.8	631.9	631.3	630.7	630.1	629.6	630.1	630.7	631.3
120°	682.5	683.9	685.4	685.2	683.5	681.8	680.0	678.3	680.0	681.8	683.5
122.5°	733.0	733.7	734.5	734.2	733.0	731.7	730.4	729.2	730.4	731.7	733.0
125°	809.2	809.7	810.3	810.2	809.3	808.4	807.6	806.7	807.6	808.4	809.3
127.5°	885.0	885.7	886.3	885.7	883.8	882.0	880.2	878.3	880.2	882.0	883.8
130°	934.3	935.1	936.0	935.3	933.0	930.7	928.3	926.0	928.3	930.7	933.0
132.5°	982.6	983.2	983.8	983.0	980.7	978.4	976.1	973.8	976.1	978.4	980.7
135°	1053.7	1054.0	1054.3	1053.6	1051.8	1050.1	1048.4	1046.7	1048.4	1050.1	1051.8
137.5°	1122.5	1121.7	1121.0	1119.9	1118.4	1117.0	1115.5	1114.1	1115.5	1117.0	1118.4
140°	1168.0	1167.7	1167.4	1166.6	1165.1	1163.7	1162.2	1160.8	1162.2	1163.7	1165.1
142.5°	1211.1	1210.6	1210.1	1209.1	1207.7	1206.2	1204.8	1203.3	1204.8	1206.2	1207.7
145°	1274.5	1273.6	1272.8	1272.0	1271.5	1270.9	1270.3	1269.7	1270.3	1270.9	1271.5
147.5°	1334.5	1333.7	1332.9	1332.0	1331.0	1329.9	1328.9	1327.8	1328.9	1329.9	1331.0
150°	1372.3	1371.8	1371.2	1370.6	1370.0	1369.5	1368.9	1368.3	1368.9	1369.5	1370.0
152.5°	1406.0	1405.7	1405.3	1404.7	1403.9	1403.1	1402.3	1401.5	1402.3	1403.1	1403.9
155°	1454.6	1454.3	1454.1	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9
157.5°	1497.5	1497.3	1497.1	1497.1	1497.5	1497.8	1498.2	1498.5	1498.2	1497.8	1497.5
160°	1523.9	1523.9	1523.9	1524.2	1524.8	1525.4	1526.0	1526.5	1526.0	1525.4	1524.8
162.5°	1548.4	1548.2	1547.9	1548.2	1549.0	1549.8	1550.6	1551.4	1550.6	1549.8	1549.0
165°	1579.7	1579.7	1579.7	1580.2	1581.0	1581.9	1582.7	1583.6	1582.7	1581.9	1581.0
167.5°	1604.7	1604.4	1604.2	1604.7	1605.8	1607.0	1608.1	1609.3	1608.1	1607.0	1605.8
170°	1618.6	1618.6	1618.6	1619.2	1620.4	1621.5	1622.7	1623.8	1622.7	1621.5	1620.4
172.5°	1630.0	1630.0	1630.0	1630.6	1631.8	1632.9	1634.1	1635.2	1634.1	1632.9	1631.8
175°	1642.0	1642.0	1642.0	1642.5	1643.7	1644.9	1646.0	1647.2	1646.0	1644.9	1643.7
177.5°	1647.9	1647.9	1647.9	1648.4	1649.3	1650.2	1651.2	1652.1	1651.2	1650.2	1649.3
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



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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°	8.7	9.7	10.1	11.2	11.6	12.7	12.9	12.5	12.7	13.9	12.8
90°	12.8	16.1	19.9	23.6	27.4	31.1	32.3	33.4	34.6	35.7	36.6
92.5°	39.2	41.3	43.4	45.5	47.7	49.8	50.7	51.6	52.6	53.5	53.8
95°	84.6	86.8	89.1	91.4	93.7	96.0	97.1	98.3	99.4	100.6	101.2
97.5°	141.9	143.5	145.2	146.8	148.5	150.2	151.5	152.8	154.2	155.5	156.1
100°	183.3	184.9	186.3	187.8	189.2	190.7	191.5	192.4	193.2	194.1	194.8
102.5°	227.2	228.7	230.6	232.5	234.4	236.3	237.2	238.0	238.9	239.8	240.1
105°	294.1	295.7	298.3	300.9	303.5	306.1	306.1	306.1	306.1	306.1	306.4
107.5°	373.1	373.8	374.8	375.9	376.9	377.9	378.9	379.8	380.7	381.6	381.9
110°	423.8	424.4	425.0	425.6	426.1	426.7	427.9	429.0	430.2	431.3	431.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	474.8	475.0	475.1	475.2	475.4	475.5	476.9	478.2	479.6	481.0	481.6
115°	554.7	554.8	554.2	553.7	553.1	552.5	552.8	553.1	553.4	553.7	553.7
117.5°	631.9	631.8	631.0	630.3	629.5	628.8	628.7	628.7	628.6	628.5	628.1
120°	685.2	685.4	683.9	682.5	681.1	679.6	679.3	679.0	678.8	678.5	678.0
122.5°	734.2	734.5	733.7	733.0	732.2	731.5	730.7	730.0	729.2	728.5	727.7
125°	810.2	810.3	809.7	809.2	808.6	808.0	806.9	805.7	804.6	803.4	802.3
127.5°	885.7	886.3	885.7	885.0	884.4	883.8	882.1	880.5	878.9	877.3	875.8
130°	935.3	936.0	935.1	934.3	933.4	932.5	931.4	930.2	929.1	927.9	926.3
132.5°	983.0	983.8	983.2	982.6	981.9	981.3	979.9	978.5	977.1	975.8	974.3
135°	1053.6	1054.3	1054.0	1053.7	1053.4	1053.1	1052.0	1050.8	1049.7	1048.5	1047.7
137.5°	1119.9	1121.0	1121.7	1122.5	1123.2	1124.0	1122.7	1121.5	1120.3	1119.1	1118.0
140°	1166.6	1167.4	1167.7	1168.0	1168.3	1168.6	1168.3	1168.0	1167.7	1167.4	1166.3
142.5°	1209.1	1210.1	1210.6	1211.1	1211.6	1212.2	1211.9	1211.6	1211.3	1211.0	1210.1
145°	1272.0	1272.8	1273.6	1274.5	1275.4	1276.2	1275.9	1275.6	1275.4	1275.1	1274.4
147.5°	1332.0	1332.9	1333.7	1334.5	1335.3	1336.1	1336.1	1336.1	1336.1	1336.1	1335.3
150°	1370.6	1371.2	1371.8	1372.3	1372.9	1373.5	1373.5	1373.5	1373.5	1373.5	1372.6
152.5°	1404.7	1405.3	1405.7	1406.0	1406.4	1406.7	1407.2	1407.6	1408.1	1408.5	1408.0
155°	1453.9	1454.1	1454.3	1454.6	1454.9	1455.2	1456.4	1457.5	1458.7	1459.8	1459.4
157.5°	1497.1	1497.1	1497.3	1497.5	1497.8	1498.0	1499.2	1500.4	1501.6	1502.9	1502.6
160°	1524.2	1523.9	1523.9	1523.9	1523.9	1523.9	1525.4	1526.8	1528.3	1529.7	1529.9
162.5°	1548.2	1547.9	1548.2	1548.4	1548.6	1548.8	1550.3	1551.7	1553.2	1554.6	1554.4
165°	1580.2	1579.7	1579.7	1579.7	1579.7	1579.7	1581.4	1583.2	1584.9	1586.6	1586.5
167.5°	1604.7	1604.2	1604.4	1604.7	1604.9	1605.1	1606.9	1608.7	1610.5	1612.3	1612.3
170°	1619.2	1618.6	1618.6	1618.6	1618.6	1618.6	1620.6	1622.7	1624.7	1626.7	1626.7
172.5°	1630.6	1630.0	1630.0	1630.0	1630.0	1630.0	1631.8	1633.6	1635.4	1637.2	1637.1
175°	1642.5	1642.0	1642.0	1642.0	1642.0	1642.0	1643.7	1645.4	1647.2	1648.9	1648.7
177.5°	1648.4	1647.9	1647.9	1647.9	1647.9	1647.9	1649.3	1650.7	1652.1	1653.5	1653.4
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



TEST NUMBER: P332139

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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°	13.0	13.1	12.9	12.7	12.9	13.1	13.0	12.8	13.9	12.7	12.5
90°	37.2	37.8	38.3	38.9	38.3	37.8	37.2	36.6	35.7	34.6	33.4
92.5°	53.4	53.1	52.7	52.4	52.7	53.1	53.4	53.8	53.5	52.6	51.6
95°	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	100.6	99.4	98.3
97.5°	156.0	155.9	155.8	155.6	155.8	155.9	156.0	156.1	155.5	154.2	152.8
100°	195.4	196.0	196.6	197.1	196.6	196.0	195.4	194.8	194.1	193.2	192.4
102.5°	240.0	239.9	239.8	239.7	239.8	239.9	240.0	240.1	239.8	238.9	238.0
105°	307.0	307.5	308.1	308.7	308.1	307.5	307.0	306.4	306.1	306.1	306.1
107.5°	381.6	381.2	380.9	380.5	380.9	381.2	381.6	381.9	381.6	380.7	379.8
110°	431.0	430.5	429.9	429.3	429.9	430.5	431.0	431.6	431.3	430.2	429.0



TEST NUMBER: P332139

CATALOG NUMBER: S123DIW-S560D1320U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	481.5	481.4	481.3	481.2	481.3	481.4	481.5	481.6	481.0	479.6	478.2
115°	553.4	553.1	552.8	552.5	552.8	553.1	553.4	553.7	553.7	553.4	553.1
117.5°	627.3	626.5	625.7	624.9	625.7	626.5	627.3	628.1	628.5	628.6	628.7
120°	677.5	676.9	676.3	675.7	676.3	676.9	677.5	678.0	678.5	678.8	679.0
122.5°	726.9	726.1	725.3	724.5	725.3	726.1	726.9	727.7	728.5	729.2	730.0
125°	801.1	799.9	798.8	797.6	798.8	799.9	801.1	802.3	803.4	804.6	805.7
127.5°	874.5	873.2	871.9	870.5	871.9	873.2	874.5	875.8	877.3	878.9	880.5
130°	924.3	922.3	920.3	918.3	920.3	922.3	924.3	926.3	927.9	929.1	930.2
132.5°	972.7	971.2	969.6	968.1	969.6	971.2	972.7	974.3	975.8	977.1	978.5
135°	1047.1	1046.5	1045.9	1045.4	1045.9	1046.5	1047.1	1047.7	1048.5	1049.7	1050.8
137.5°	1116.9	1115.8	1114.7	1113.6	1114.7	1115.8	1116.9	1118.0	1119.1	1120.3	1121.5
140°	1164.3	1162.2	1160.2	1158.2	1160.2	1162.2	1164.3	1166.3	1167.4	1167.7	1168.0
142.5°	1208.5	1207.0	1205.4	1203.9	1205.4	1207.0	1208.5	1210.1	1211.0	1211.3	1211.6
145°	1273.2	1272.0	1270.9	1269.7	1270.9	1272.0	1273.2	1274.4	1275.1	1275.4	1275.6
147.5°	1333.6	1331.8	1330.1	1328.4	1330.1	1331.8	1333.6	1335.3	1336.1	1336.1	1336.1
150°	1370.9	1369.2	1367.4	1365.7	1367.4	1369.2	1370.9	1372.6	1373.5	1373.5	1373.5
152.5°	1406.5	1405.0	1403.5	1402.0	1403.5	1405.0	1406.5	1408.0	1408.5	1408.1	1407.6
155°	1457.4	1455.4	1453.3	1451.3	1453.3	1455.4	1457.4	1459.4	1459.8	1458.7	1457.5
157.5°	1501.0	1499.4	1497.8	1496.2	1497.8	1499.4	1501.0	1502.6	1502.9	1501.6	1500.4
160°	1528.7	1527.6	1526.4	1525.2	1526.4	1527.6	1528.7	1529.9	1529.7	1528.3	1526.8
162.5°	1552.6	1550.7	1548.9	1547.0	1548.9	1550.7	1552.6	1554.4	1554.6	1553.2	1551.7
165°	1584.5	1582.5	1580.4	1578.4	1580.4	1582.5	1584.5	1586.5	1586.6	1584.9	1583.2
167.5°	1610.5	1608.7	1606.9	1605.1	1606.9	1608.7	1610.5	1612.3	1612.3	1610.5	1608.7
170°	1624.7	1622.7	1620.6	1618.6	1620.6	1622.7	1624.7	1626.7	1626.7	1624.7	1622.7
172.5°	1635.1	1633.0	1631.0	1629.0	1631.0	1633.0	1635.1	1637.1	1637.2	1635.4	1633.6
175°	1646.7	1644.7	1642.7	1640.7	1642.7	1644.7	1646.7	1648.7	1648.9	1647.2	1645.4
177.5°	1651.7	1650.1	1648.5	1646.9	1648.5	1650.1	1651.7	1653.4	1653.5	1652.1	1650.7
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



TEST NUMBER: P332139

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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°	12.9	12.7	11.6	11.2	10.1	9.7	8.7	8.4	8.2	7.6	7.6
90°	32.3	31.1	27.4	23.6	19.9	16.1	12.8	9.9	7.1	4.2	1.3
92.5°	50.7	49.8	47.7	45.5	43.4	41.3	39.2	37.3	35.3	33.3	31.4
95°	97.1	96.0	93.7	91.4	89.1	86.8	84.6	82.6	80.6	78.5	76.5
97.5°	151.5	150.2	148.5	146.8	145.2	143.5	141.9	140.4	138.9	137.4	135.9
100°	191.5	190.7	189.2	187.8	186.3	184.9	183.3	181.6	179.8	178.1	176.4
102.5°	237.2	236.3	234.4	232.5	230.6	228.7	227.2	226.2	225.2	224.1	223.1
105°	306.1	306.1	303.5	300.9	298.3	295.7	294.1	293.5	293.0	292.4	291.8
107.5°	378.9	377.9	376.9	375.9	374.8	373.8	373.1	372.8	372.4	372.1	371.7
110°	427.9	426.7	426.1	425.6	425.0	424.4	423.8	423.2	422.7	422.1	421.5



TEST NUMBER: P332139

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	476.9	475.5	475.4	475.2	475.1	475.0	474.8	474.4	474.1	473.7	473.4
115°	552.8	552.5	553.1	553.7	554.2	554.8	554.7	553.8	552.9	552.1	551.2
117.5°	628.7	628.8	629.5	630.3	631.0	631.8	631.9	631.3	630.7	630.1	629.6
120°	679.3	679.6	681.1	682.5	683.9	685.4	685.2	683.5	681.8	680.0	678.3
122.5°	730.7	731.5	732.2	733.0	733.7	734.5	734.2	733.0	731.7	730.4	729.2
125°	806.9	808.0	808.6	809.2	809.7	810.3	810.2	809.3	808.4	807.6	806.7
127.5°	882.1	883.8	884.4	885.0	885.7	886.3	885.7	883.8	882.0	880.2	878.3
130°	931.4	932.5	933.4	934.3	935.1	936.0	935.3	933.0	930.7	928.3	926.0
132.5°	979.9	981.3	981.9	982.6	983.2	983.8	983.0	980.7	978.4	976.1	973.8
135°	1052.0	1053.1	1053.4	1053.7	1054.0	1054.3	1053.6	1051.8	1050.1	1048.4	1046.7
137.5°	1122.7	1124.0	1123.2	1122.5	1121.7	1121.0	1119.9	1118.4	1117.0	1115.5	1114.1
140°	1168.3	1168.6	1168.3	1168.0	1167.7	1167.4	1166.6	1165.1	1163.7	1162.2	1160.8
142.5°	1211.9	1212.2	1211.6	1211.1	1210.6	1210.1	1209.1	1207.7	1206.2	1204.8	1203.3
145°	1275.9	1276.2	1275.4	1274.5	1273.6	1272.8	1272.0	1271.5	1270.9	1270.3	1269.7
147.5°	1336.1	1336.1	1335.3	1334.5	1333.7	1332.9	1332.0	1331.0	1329.9	1328.9	1327.8
150°	1373.5	1373.5	1372.9	1372.3	1371.8	1371.2	1370.6	1370.0	1369.5	1368.9	1368.3
152.5°	1407.2	1406.7	1406.4	1406.0	1405.7	1405.3	1404.7	1403.9	1403.1	1402.3	1401.5
155°	1456.4	1455.2	1454.9	1454.6	1454.3	1454.1	1453.9	1453.9	1453.9	1453.9	1453.9
157.5°	1499.2	1498.0	1497.8	1497.5	1497.3	1497.1	1497.1	1497.5	1497.8	1498.2	1498.5
160°	1525.4	1523.9	1523.9	1523.9	1523.9	1523.9	1524.2	1524.8	1525.4	1526.0	1526.5
162.5°	1550.3	1548.8	1548.6	1548.4	1548.2	1547.9	1548.2	1549.0	1549.8	1550.6	1551.4
165°	1581.4	1579.7	1579.7	1579.7	1579.7	1579.7	1580.2	1581.0	1581.9	1582.7	1583.6
167.5°	1606.9	1605.1	1604.9	1604.7	1604.4	1604.2	1604.7	1605.8	1607.0	1608.1	1609.3
170°	1620.6	1618.6	1618.6	1618.6	1618.6	1618.6	1619.2	1620.4	1621.5	1622.7	1623.8
172.5°	1631.8	1630.0	1630.0	1630.0	1630.0	1630.0	1630.6	1631.8	1632.9	1634.1	1635.2
175°	1643.7	1642.0	1642.0	1642.0	1642.0	1642.0	1642.5	1643.7	1644.9	1646.0	1647.2
177.5°	1649.3	1647.9	1647.9	1647.9	1647.9	1647.9	1648.4	1649.3	1650.2	1651.2	1652.1
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



TEST NUMBER: P332139

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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°	8.8	9.4	10.9	12.1	14.0	15.6	16.1	16.2	16.6	16.6	16.5
90°	4.2	7.1	9.9	12.8	16.1	19.9	23.6	27.4	31.1	32.3	33.4
92.5°	33.3	35.3	37.3	39.2	41.3	43.4	45.5	47.7	49.8	50.7	51.6
95°	78.5	80.6	82.6	84.6	86.8	89.1	91.4	93.7	96.0	97.1	98.3
97.5°	137.4	138.9	140.4	141.9	143.5	145.2	146.8	148.5	150.2	151.5	152.8
100°	178.1	179.8	181.6	183.3	184.9	186.3	187.8	189.2	190.7	191.5	192.4
102.5°	224.1	225.2	226.2	227.2	228.7	230.6	232.5	234.4	236.3	237.2	238.0
105°	292.4	293.0	293.5	294.1	295.7	298.3	300.9	303.5	306.1	306.1	306.1
107.5°	372.1	372.4	372.8	373.1	373.8	374.8	375.9	376.9	377.9	378.9	379.8
110°	422.1	422.7	423.2	423.8	424.4	425.0	425.6	426.1	426.7	427.9	429.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	473.7	474.1	474.4	474.8	475.0	475.1	475.2	475.4	475.5	476.9	478.2
115°	552.1	552.9	553.8	554.7	554.8	554.2	553.7	553.1	552.5	552.8	553.1
117.5°	630.1	630.7	631.3	631.9	631.8	631.0	630.3	629.5	628.8	628.7	628.7
120°	680.0	681.8	683.5	685.2	685.4	683.9	682.5	681.1	679.6	679.3	679.0
122.5°	730.4	731.7	733.0	734.2	734.5	733.7	733.0	732.2	731.5	730.7	730.0
125°	807.6	808.4	809.3	810.2	810.3	809.7	809.2	808.6	808.0	806.9	805.7
127.5°	880.2	882.0	883.8	885.7	886.3	885.7	885.0	884.4	883.8	882.1	880.5
130°	928.3	930.7	933.0	935.3	936.0	935.1	934.3	933.4	932.5	931.4	930.2
132.5°	976.1	978.4	980.7	983.0	983.8	983.2	982.6	981.9	981.3	979.9	978.5
135°	1048.4	1050.1	1051.8	1053.6	1054.3	1054.0	1053.7	1053.4	1053.1	1052.0	1050.8
137.5°	1115.5	1117.0	1118.4	1119.9	1121.0	1121.7	1122.5	1123.2	1124.0	1122.7	1121.5
140°	1162.2	1163.7	1165.1	1166.6	1167.4	1167.7	1168.0	1168.3	1168.6	1168.3	1168.0
142.5°	1204.8	1206.2	1207.7	1209.1	1210.1	1210.6	1211.1	1211.6	1212.2	1211.9	1211.6
145°	1270.3	1270.9	1271.5	1272.0	1272.8	1273.6	1274.5	1275.4	1276.2	1275.9	1275.6
147.5°	1328.9	1329.9	1331.0	1332.0	1332.9	1333.7	1334.5	1335.3	1336.1	1336.1	1336.1
150°	1368.9	1369.5	1370.0	1370.6	1371.2	1371.8	1372.3	1372.9	1373.5	1373.5	1373.5
152.5°	1402.3	1403.1	1403.9	1404.7	1405.3	1405.7	1406.0	1406.4	1406.7	1407.2	1407.6
155°	1453.9	1453.9	1453.9	1453.9	1454.1	1454.3	1454.6	1454.9	1455.2	1456.4	1457.5
157.5°	1498.2	1497.8	1497.5	1497.1	1497.1	1497.3	1497.5	1497.8	1498.0	1499.2	1500.4
160°	1526.0	1525.4	1524.8	1524.2	1523.9	1523.9	1523.9	1523.9	1523.9	1525.4	1526.8
162.5°	1550.6	1549.8	1549.0	1548.2	1547.9	1548.2	1548.4	1548.6	1548.8	1550.3	1551.7
165°	1582.7	1581.9	1581.0	1580.2	1579.7	1579.7	1579.7	1579.7	1579.7	1581.4	1583.2
167.5°	1608.1	1607.0	1605.8	1604.7	1604.2	1604.4	1604.7	1604.9	1605.1	1606.9	1608.7
170°	1622.7	1621.5	1620.4	1619.2	1618.6	1618.6	1618.6	1618.6	1618.6	1620.6	1622.7
172.5°	1634.1	1632.9	1631.8	1630.6	1630.0	1630.0	1630.0	1630.0	1630.0	1631.8	1633.6
175°	1646.0	1644.9	1643.7	1642.5	1642.0	1642.0	1642.0	1642.0	1642.0	1643.7	1645.4
177.5°	1651.2	1650.2	1649.3	1648.4	1647.9	1647.9	1647.9	1647.9	1647.9	1649.3	1650.7
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



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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°	16.4	16.3	16.2	16.6	16.4	16.2	17.0
90°	34.6	35.7	36.6	37.2	37.8	38.3	38.9
92.5°	52.6	53.5	53.8	53.4	53.1	52.7	52.4
95°	99.4	100.6	101.2	101.2	101.2	101.2	101.2
97.5°	154.2	155.5	156.1	156.0	155.9	155.8	155.6
100°	193.2	194.1	194.8	195.4	196.0	196.6	197.1
102.5°	238.9	239.8	240.1	240.0	239.9	239.8	239.7
105°	306.1	306.1	306.4	307.0	307.5	308.1	308.7
107.5°	380.7	381.6	381.9	381.6	381.2	380.9	380.5
110°	430.2	431.3	431.6	431.0	430.5	429.9	429.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	479.6	481.0	481.6	481.5	481.4	481.3	481.2
115°	553.4	553.7	553.7	553.4	553.1	552.8	552.5
117.5°	628.6	628.5	628.1	627.3	626.5	625.7	624.9
120°	678.8	678.5	678.0	677.5	676.9	676.3	675.7
122.5°	729.2	728.5	727.7	726.9	726.1	725.3	724.5
125°	804.6	803.4	802.3	801.1	799.9	798.8	797.6
127.5°	878.9	877.3	875.8	874.5	873.2	871.9	870.5
130°	929.1	927.9	926.3	924.3	922.3	920.3	918.3
132.5°	977.1	975.8	974.3	972.7	971.2	969.6	968.1
135°	1049.7	1048.5	1047.7	1047.1	1046.5	1045.9	1045.4
137.5°	1120.3	1119.1	1118.0	1116.9	1115.8	1114.7	1113.6
140°	1167.7	1167.4	1166.3	1164.3	1162.2	1160.2	1158.2
142.5°	1211.3	1211.0	1210.1	1208.5	1207.0	1205.4	1203.9
145°	1275.4	1275.1	1274.4	1273.2	1272.0	1270.9	1269.7
147.5°	1336.1	1336.1	1335.3	1333.6	1331.8	1330.1	1328.4
150°	1373.5	1373.5	1372.6	1370.9	1369.2	1367.4	1365.7
152.5°	1408.1	1408.5	1408.0	1406.5	1405.0	1403.5	1402.0
155°	1458.7	1459.8	1459.4	1457.4	1455.4	1453.3	1451.3
157.5°	1501.6	1502.9	1502.6	1501.0	1499.4	1497.8	1496.2
160°	1528.3	1529.7	1529.9	1528.7	1527.6	1526.4	1525.2
162.5°	1553.2	1554.6	1554.4	1552.6	1550.7	1548.9	1547.0
165°	1584.9	1586.6	1586.5	1584.5	1582.5	1580.4	1578.4
167.5°	1610.5	1612.3	1612.3	1610.5	1608.7	1606.9	1605.1
170°	1624.7	1626.7	1626.7	1624.7	1622.7	1620.6	1618.6
172.5°	1635.4	1637.2	1637.1	1635.1	1633.0	1631.0	1629.0
175°	1647.2	1648.9	1648.7	1646.7	1644.7	1642.7	1640.7
177.5°	1652.1	1653.5	1653.4	1651.7	1650.1	1648.5	1646.9
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1

(END OF REPORT)