

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: P332114-935

Luminaire Tested: **S123DIW-S340D1535U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332114-935
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: S123DIW-S340D1535U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6537.9 lumens
Efficiency: N/A
Efficacy: 122.4 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

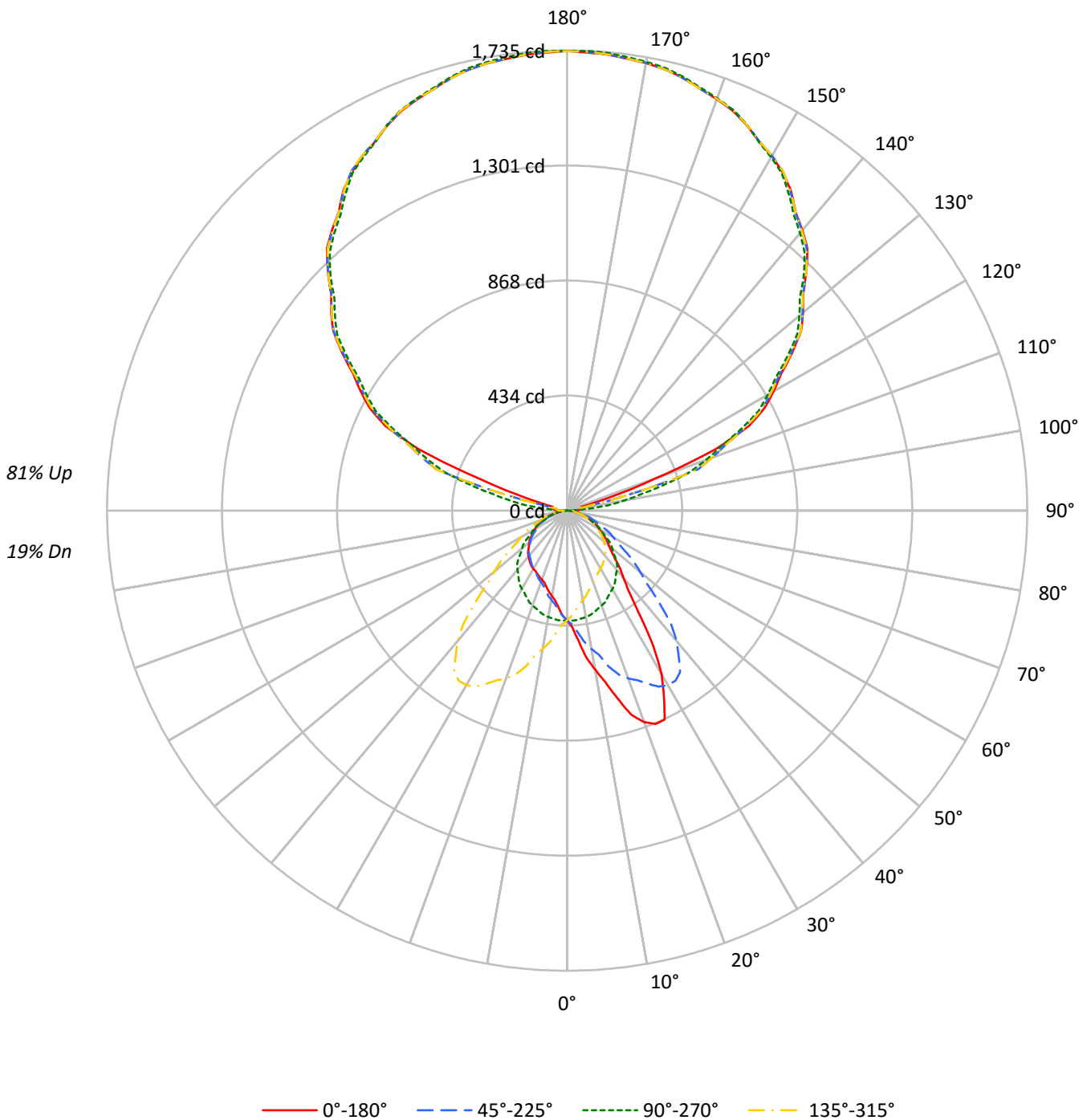
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	91	87	83	80	80	77	74	71	58	56	54	41	39	38	25	24	24	16
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	22	21	20	14
3	76	67	60	54	66	59	53	49	45	41	38	32	29	27	19	18	17	12
4	69	59	52	46	61	52	46	41	40	36	32	28	25	23	17	16	15	10
5	63	52	45	39	56	46	40	35	35	31	28	25	22	20	16	14	13	9
6	58	47	39	34	51	42	35	30	32	27	24	23	20	18	14	13	11	8
7	54	42	34	29	47	37	31	26	29	24	21	21	18	15	13	11	10	7
8	50	38	31	26	44	34	28	23	26	22	18	19	16	14	12	10	9	6
9	46	34	27	23	41	31	25	20	24	19	16	17	14	12	11	9	8	6
10	43	31	25	20	38	28	22	18	22	17	14	16	13	11	10	8	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4456	4456	4456	4456
5°	5314	4475	3965	4475
10°	6652	4453	3583	4453
15°	8158	4416	3335	4416
20°	9718	4361	3175	4361
25°	10320	4292	3139	4292
30°	8846	4243	3156	4243
35°	6151	4172	3189	4172
40°	4634	4089	3180	4089
45°	3847	3965	3139	3965
50°	3446	3716	3110	3716
55°	3222	3445	3072	3445
60°	3023	3160	3040	3160
65°	2840	2881	2942	2881
70°	2662	2565	2801	2565
75°	2383	2246	2570	2246
80°	2089	1841	2213	1841
85°	1643	1334	1494	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	0.6
10°-20°	130.8	2.0
20°-30°	219.5	3.4
30°-40°	248.5	3.8
40°-50°	222.9	3.4
50°-60°	179.8	2.8
60°-70°	125.3	1.9
70°-80°	65.9	1.0
80°-90°	20.9	0.3
90°-100°	63.0	1.0
100°-110°	300.2	4.6
110°-120°	721.1	11.0
120°-130°	918.3	14.0
130°-140°	981.1	15.0
140°-150°	917.5	14.0
150°-160°	740.1	11.3
160°-170°	477.6	7.3
170°-180°	164.6	2.5
0°-30°	391.0	6.0
0°-40°	639.5	9.8
0°-60°	1042.2	15.9
0°-90°	1254.4	19.2
90°-120°	1084.3	16.6
90°-150°	3901.2	59.7
90°-180°	5283.0	80.8
0°-180°	6537.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	414	414	414	414	414	
5°	492	414	367	414	492	51
15°	732	396	299	396	732	211
25°	869	361	264	361	869	381
35°	468	318	243	318	468	304
45°	253	260	206	260	253	200
55°	172	184	164	184	172	154
65°	112	113	116	113	112	111
75°	57	54	62	54	57	61
85°	13	11	12	11	13	17
90°	39	1	39	1	39	18
95°	49	78	49	78	49	41
105°	57	384	57	384	57	129
115°	757	720	757	720	757	699
125°	1035	1014	1035	1014	1035	924
135°	1276	1263	1276	1263	1276	984
145°	1471	1457	1471	1457	1471	918
155°	1603	1605	1603	1605	1603	739
165°	1689	1693	1689	1693	1689	477
175°	1726	1732	1726	1732	1726	164
180°	1732	1732	1732	1732	1732	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	439.4	439.0	438.2	438.9	437.6	435.8	435.7	434.0	429.4	429.1	427.8
5°	491.8	490.3	490.0	489.8	487.0	483.2	476.0	475.4	465.7	461.0	455.1
7.5°	559.8	560.6	557.7	555.2	546.6	540.9	533.1	523.2	511.4	499.4	491.5
10°	608.6	615.2	607.0	601.3	596.2	586.3	574.9	560.6	546.4	529.8	517.1
12.5°	660.9	664.1	662.5	657.2	649.1	634.1	613.9	598.1	585.0	557.3	546.1
15°	732.1	744.3	736.5	718.5	718.8	704.6	678.2	649.1	633.6	609.3	576.3
17.5°	808.0	809.5	806.2	791.2	781.2	761.6	737.1	709.3	678.0	648.6	613.5
20°	848.4	847.2	840.2	832.4	815.2	800.0	773.3	742.2	702.1	673.1	634.8
22.5°	870.9	868.9	865.6	859.0	844.7	828.4	804.3	770.4	732.2	692.4	648.2
25°	868.9	871.5	871.9	870.1	865.1	855.3	836.5	809.3	771.3	720.1	674.0
27.5°	790.3	794.0	804.7	814.2	824.8	835.7	834.2	820.8	792.6	748.4	692.0
30°	711.7	703.6	723.5	748.6	765.6	795.7	812.5	813.6	797.7	759.8	704.8
32.5°	602.5	611.4	620.2	651.0	688.3	722.0	755.6	782.6	785.7	760.4	712.4
35°	468.1	479.2	495.2	511.3	551.4	585.9	644.9	696.2	737.1	742.5	713.1
37.5°	377.3	382.7	392.9	409.0	435.1	476.1	521.7	586.6	645.9	690.0	691.9
40°	329.8	331.4	342.8	355.0	376.3	410.0	451.1	508.5	579.5	641.1	666.8
42.5°	294.1	297.6	302.6	314.3	331.2	356.5	394.8	442.2	507.3	578.2	628.4
45°	252.7	256.8	259.8	267.6	279.7	296.7	323.3	366.7	416.2	489.4	557.0
47.5°	225.4	225.7	227.9	233.8	242.0	254.9	273.7	301.5	347.0	406.4	475.8
50°	205.8	209.0	209.8	214.4	220.8	230.2	245.9	269.6	306.9	359.0	422.8
52.5°	192.0	193.0	195.2	198.5	204.1	211.5	225.1	243.6	272.9	317.4	376.0
55°	171.7	171.7	173.9	176.5	179.7	186.3	195.4	209.0	231.3	265.8	314.4
57.5°	152.9	153.9	155.5	156.3	159.0	163.4	170.9	181.3	197.9	224.5	263.0
60°	140.4	142.2	142.0	143.6	146.0	149.5	155.8	164.3	179.1	200.4	232.9
62.5°	129.5	129.4	129.3	131.3	133.6	136.9	141.1	148.4	161.0	179.9	207.5
65°	111.5	111.2	112.5	113.7	114.5	116.9	120.1	126.6	135.0	149.0	170.5
67.5°	95.6	94.4	95.1	95.6	96.9	98.8	101.9	105.8	112.4	123.7	139.9
70°	84.6	83.6	83.4	83.9	85.1	86.4	88.7	92.5	98.7	107.7	119.5
72.5°	73.4	72.8	72.7	73.6	74.1	75.1	76.6	80.1	85.1	91.9	102.9
75°	57.3	57.3	57.3	57.6	58.2	59.0	60.2	62.0	65.8	70.6	78.0
77.5°	43.0	43.0	42.7	42.7	43.6	43.9	44.2	45.9	48.0	51.2	56.7
80°	33.7	32.7	33.1	33.7	34.1	34.3	34.9	35.3	37.1	38.9	42.7
82.5°	25.1	24.2	24.3	25.2	25.3	25.5	26.1	26.6	27.3	28.9	31.0
85°	13.3	13.3	13.4	13.4	13.6	13.4	14.0	14.2	14.2	15.2	16.4
87.5°	12.6	12.1	12.1	12.2	11.9	11.9	11.9	11.8	11.7	11.6	11.0
90°	38.6	38.1	37.5	36.9	36.3	35.5	34.4	33.1	32.0	30.9	27.2
92.5°	42.7	42.4	42.0	41.7	41.3	40.3	38.5	36.6	34.8	33.0	30.1
95°	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9	41.9	39.9	36.8
97.5°	53.0	52.8	52.4	52.2	51.9	50.6	48.3	46.1	43.7	41.4	38.1
100°	54.1	53.8	53.5	53.2	53.0	51.7	49.3	47.0	44.8	42.4	39.1
102.5°	55.1	54.6	54.1	53.6	53.0	56.3	63.5	70.5	77.6	84.7	100.5
105°	56.7	56.1	55.5	54.9	54.3	79.4	130.0	180.6	231.3	281.9	347.6
107.5°	177.9	216.0	254.2	292.4	330.5	368.2	405.3	442.4	479.6	516.7	552.6
110°	354.0	394.9	435.8	476.6	517.5	542.8	552.2	561.6	571.1	580.5	577.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	607.3	616.0	624.6	633.2	641.9	646.1	645.9	645.8	645.6	645.4	642.2
115°	756.9	755.7	754.6	753.5	752.3	750.3	747.4	744.6	741.7	738.8	736.2
117.5°	840.8	840.6	840.3	840.1	839.9	838.6	836.3	834.1	831.7	829.5	828.1
120°	898.5	898.5	898.5	898.5	898.5	897.3	895.0	892.8	890.4	888.1	887.3
122.5°	955.1	954.8	954.6	954.4	954.2	953.3	951.7	950.0	948.5	946.8	945.7
125°	1034.9	1034.3	1033.7	1033.2	1032.6	1032.0	1031.5	1030.9	1030.4	1029.8	1028.6
127.5°	1111.6	1112.2	1112.8	1113.4	1113.9	1113.7	1112.8	1111.9	1110.9	1110.1	1108.7
130°	1161.1	1161.6	1162.2	1162.8	1163.3	1163.0	1161.9	1160.7	1159.6	1158.5	1157.4
132.5°	1206.3	1207.1	1208.0	1208.8	1209.5	1209.4	1208.2	1207.1	1205.9	1204.8	1203.9
135°	1275.6	1276.4	1277.3	1278.2	1279.0	1279.0	1278.2	1277.3	1276.4	1275.6	1274.5
137.5°	1340.7	1341.3	1341.9	1342.5	1343.0	1342.6	1341.3	1339.9	1338.5	1337.1	1336.5
140°	1379.8	1380.4	1381.0	1381.6	1382.2	1381.8	1380.7	1379.6	1378.5	1377.3	1376.4
142.5°	1415.9	1416.7	1417.5	1418.3	1419.1	1419.0	1418.2	1417.2	1416.3	1415.4	1414.5
145°	1471.3	1471.3	1471.3	1471.3	1471.3	1470.9	1470.4	1469.8	1469.2	1468.7	1468.1
147.5°	1512.4	1513.7	1515.1	1516.4	1517.7	1518.1	1517.5	1516.9	1516.4	1515.8	1515.2
150°	1543.3	1544.2	1545.1	1545.9	1546.8	1546.9	1546.4	1545.8	1545.2	1544.6	1544.0
152.5°	1568.1	1569.3	1570.6	1572.0	1573.3	1573.5	1572.4	1571.4	1570.4	1569.3	1569.0
155°	1602.6	1604.2	1605.9	1607.7	1609.4	1609.6	1608.1	1606.7	1605.2	1603.8	1603.5
157.5°	1631.6	1633.8	1636.1	1638.3	1640.5	1640.8	1639.1	1637.4	1635.6	1633.9	1634.3
160°	1650.2	1652.2	1654.2	1656.1	1658.2	1658.3	1656.6	1654.9	1653.2	1651.5	1651.7
162.5°	1667.7	1669.5	1671.2	1673.0	1674.7	1674.6	1672.8	1670.8	1668.9	1666.9	1667.2
165°	1688.8	1690.7	1692.8	1694.8	1696.8	1696.7	1694.4	1692.0	1689.8	1687.5	1687.8
167.5°	1704.0	1706.2	1708.6	1710.8	1713.1	1713.1	1710.8	1708.6	1706.2	1704.0	1704.0
170°	1713.2	1715.5	1717.8	1720.1	1722.4	1722.4	1720.1	1717.8	1715.5	1713.2	1713.2
172.5°	1718.4	1720.9	1723.5	1726.0	1728.5	1728.5	1726.3	1724.0	1721.7	1719.4	1719.2
175°	1726.1	1728.4	1730.7	1732.9	1735.3	1735.4	1733.4	1731.4	1729.4	1727.4	1727.1
177.5°	1728.5	1730.7	1733.0	1735.3	1737.6	1737.8	1735.9	1734.1	1732.3	1730.5	1730.3
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	426.8	425.6	424.3	422.1	420.1	417.4	416.6	415.6	412.7	410.2	408.2
5°	452.9	448.1	441.1	434.6	429.5	422.4	418.4	414.2	408.2	402.8	398.4
7.5°	480.2	470.7	459.8	448.1	437.0	426.5	417.9	410.3	401.8	393.9	387.6
10°	501.9	488.2	472.9	456.5	442.5	428.9	417.4	407.4	396.6	387.1	379.3
12.5°	526.6	506.4	485.3	465.4	448.8	429.8	415.9	403.2	390.9	379.6	370.8
15°	555.8	530.1	505.2	477.8	452.5	428.9	412.4	396.3	382.1	370.5	359.2
17.5°	582.5	553.4	520.6	487.2	456.7	428.6	405.6	387.4	369.6	355.4	344.2
20°	597.5	564.5	527.4	492.7	458.9	427.7	402.3	380.7	361.4	346.4	333.8
22.5°	610.5	571.8	533.4	496.3	458.7	425.1	396.4	374.1	353.3	338.5	325.1
25°	624.1	577.6	539.2	495.7	453.7	418.8	386.8	361.4	340.6	323.3	309.5
27.5°	635.6	577.3	531.6	484.7	445.7	410.8	376.5	349.4	327.3	308.5	294.5
30°	643.3	578.1	523.7	477.4	438.1	402.0	368.7	341.4	318.1	299.1	285.9
32.5°	648.1	577.6	516.5	467.1	425.9	393.9	360.2	331.9	308.0	289.3	276.6
35°	650.9	574.0	504.0	445.9	406.2	375.1	346.8	317.5	292.5	275.0	260.5
37.5°	645.2	566.6	489.7	425.4	381.9	351.4	327.5	302.6	278.6	259.4	246.9
40°	636.5	561.8	478.4	411.0	365.2	335.8	315.6	291.0	267.3	249.1	237.5
42.5°	619.6	552.1	466.1	394.9	347.9	318.5	299.8	279.3	256.9	239.8	228.2
45°	578.5	530.7	447.5	370.9	322.4	291.9	275.4	260.5	240.3	223.7	213.6
47.5°	521.4	498.7	420.7	345.5	295.6	266.3	249.2	237.3	222.5	209.0	199.4
50°	481.8	472.3	402.6	328.1	277.8	249.1	232.6	221.9	211.2	197.8	189.0
52.5°	436.1	441.9	381.4	310.2	259.7	231.4	216.0	207.4	197.8	186.7	179.0
55°	371.7	392.7	344.8	280.0	232.6	205.8	191.1	183.6	177.9	169.7	163.1
57.5°	311.4	338.2	305.2	248.9	206.1	183.0	168.9	160.7	157.0	152.7	147.5
60°	275.6	302.0	277.0	228.1	188.4	166.3	153.9	146.8	143.2	140.2	135.8
62.5°	243.7	270.4	249.4	206.9	170.8	150.4	139.6	132.7	129.9	128.4	124.6
65°	199.8	222.8	208.8	173.9	145.9	127.8	118.0	113.1	110.6	109.9	107.5
67.5°	162.6	180.1	170.0	144.2	122.2	106.6	98.2	94.1	92.1	91.9	90.1
70°	138.2	154.6	146.8	123.6	104.5	92.3	85.1	81.5	80.2	80.1	79.0
72.5°	119.2	130.7	124.5	105.1	90.4	79.3	74.0	70.2	68.9	69.1	68.4
75°	88.3	96.9	93.2	79.8	68.0	60.8	56.4	54.0	52.8	53.4	52.5
77.5°	63.5	69.0	65.7	56.4	49.1	43.9	40.6	39.2	38.1	38.1	37.7
80°	48.0	51.1	49.3	43.7	37.7	33.3	30.7	29.7	29.1	28.8	28.7
82.5°	34.2	36.9	34.7	30.9	26.8	24.1	22.6	21.4	20.9	21.0	20.8
85°	17.2	18.3	17.5	15.1	13.4	12.2	11.5	10.8	10.4	10.6	10.2
87.5°	10.6	10.1	8.8	7.5	6.6	5.6	5.0	4.1	4.4	4.9	5.3
90°	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3	4.1	7.0	9.9
92.5°	27.4	24.5	21.7	20.8	21.5	22.3	23.2	23.9	23.2	22.3	21.5
95°	33.6	30.5	27.3	31.6	43.3	55.1	66.8	78.5	66.8	55.1	43.3
97.5°	82.7	103.2	123.8	136.7	142.0	147.3	152.6	157.8	152.6	147.3	142.0
100°	131.7	176.3	220.9	240.4	234.7	228.9	223.3	217.6	223.3	228.9	234.7
102.5°	182.2	230.9	279.7	302.0	297.8	293.8	289.6	285.5	289.6	293.8	297.8
105°	333.4	359.1	384.9	396.1	393.0	389.9	386.8	383.6	386.8	389.9	393.0
107.5°	508.6	504.5	500.4	497.1	494.6	492.1	489.6	487.1	489.6	492.1	494.6
110°	574.2	571.1	567.9	565.2	562.9	560.6	558.4	556.0	558.4	560.6	562.9



TEST NUMBER: P332114-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	639.1	635.9	632.8	630.2	628.2	626.1	624.1	622.0	624.1	626.1	628.2
115°	733.7	731.2	728.6	726.4	724.7	723.0	721.3	719.5	721.3	723.0	724.7
117.5°	826.8	825.5	824.2	822.5	820.4	818.2	816.1	814.0	816.1	818.2	820.4
120°	886.4	885.5	884.8	883.0	880.5	877.9	875.3	872.7	875.3	877.9	880.5
122.5°	944.7	943.6	942.5	940.9	938.7	936.7	934.5	932.5	934.5	936.7	938.7
125°	1027.4	1026.3	1025.2	1023.5	1021.1	1018.9	1016.6	1014.3	1016.6	1018.9	1021.1
127.5°	1107.3	1106.0	1104.6	1102.8	1100.4	1098.2	1095.9	1093.6	1095.9	1098.2	1100.4
130°	1156.2	1155.0	1153.9	1152.2	1149.9	1147.6	1145.3	1143.0	1145.3	1147.6	1149.9
132.5°	1203.0	1202.0	1201.2	1199.5	1197.2	1195.0	1192.7	1190.4	1192.7	1195.0	1197.2
135°	1273.3	1272.1	1271.0	1269.6	1267.9	1266.2	1264.5	1262.7	1264.5	1266.2	1267.9
137.5°	1335.8	1335.2	1334.6	1333.2	1331.0	1328.9	1326.7	1324.5	1326.7	1328.9	1331.0
140°	1375.5	1374.7	1373.8	1372.6	1370.9	1369.2	1367.4	1365.7	1367.4	1369.2	1370.9
142.5°	1413.7	1412.8	1412.0	1410.7	1408.9	1407.2	1405.5	1403.8	1405.5	1407.2	1408.9
145°	1467.5	1467.0	1466.4	1465.1	1463.1	1461.1	1459.1	1457.1	1459.1	1461.1	1463.1
147.5°	1514.7	1514.1	1513.5	1512.5	1511.2	1509.9	1508.6	1507.3	1508.6	1509.9	1511.2
150°	1543.5	1542.9	1542.3	1541.6	1540.8	1539.9	1539.0	1538.2	1539.0	1539.9	1540.8
152.5°	1568.7	1568.3	1568.0	1567.6	1567.2	1566.8	1566.4	1566.0	1566.4	1566.8	1567.2
155°	1603.3	1603.0	1602.7	1602.8	1603.4	1604.0	1604.6	1605.1	1604.6	1604.0	1603.4
157.5°	1634.5	1634.8	1635.1	1635.3	1635.3	1635.4	1635.5	1635.5	1635.5	1635.4	1635.3
160°	1652.0	1652.3	1652.6	1652.9	1653.2	1653.5	1653.7	1654.1	1653.7	1653.5	1653.2
162.5°	1667.5	1667.8	1668.0	1668.5	1669.3	1670.1	1670.8	1671.5	1670.8	1670.1	1669.3
165°	1688.1	1688.3	1688.7	1689.2	1690.1	1690.9	1691.8	1692.6	1691.8	1690.9	1690.1
167.5°	1704.0	1704.0	1704.0	1704.5	1705.7	1706.8	1708.0	1709.1	1708.0	1706.8	1705.7
170°	1713.2	1713.2	1713.2	1713.8	1714.9	1716.1	1717.3	1718.4	1717.3	1716.1	1714.9
172.5°	1719.0	1718.7	1718.5	1719.1	1720.5	1721.8	1723.2	1724.6	1723.2	1721.8	1720.5
175°	1726.8	1726.6	1726.2	1726.8	1728.3	1729.7	1731.1	1732.5	1731.1	1729.7	1728.3
177.5°	1730.0	1729.8	1729.6	1730.0	1731.2	1732.3	1733.5	1734.6	1733.5	1732.3	1731.2
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



TEST NUMBER: P332114-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	407.1	406.0	404.4	402.0	400.0	397.0	397.0	397.4	397.4	397.4	397.0
5°	394.8	391.8	388.1	383.9	379.5	375.1	374.3	372.6	371.5	370.7	369.7
7.5°	381.7	376.3	371.1	365.2	359.8	355.4	352.3	349.7	348.1	346.3	345.0
10°	372.9	366.3	360.1	353.9	347.0	341.6	338.2	335.8	334.0	332.3	331.6
12.5°	362.5	354.9	348.0	342.1	334.7	329.1	325.8	324.7	322.6	319.2	317.5
15°	347.2	340.2	332.0	323.0	319.3	312.5	308.7	306.9	305.7	303.1	302.3
17.5°	334.2	325.0	315.7	309.0	302.3	296.8	294.6	292.4	290.8	288.7	288.0
20°	323.7	315.6	307.1	299.9	292.8	286.8	285.0	283.4	281.8	280.9	280.0
22.5°	313.1	305.0	297.9	291.2	283.7	279.7	277.8	276.0	274.9	274.2	273.5
25°	298.3	291.0	283.2	277.2	271.2	268.5	267.3	266.4	265.5	264.6	264.3
27.5°	285.0	277.1	270.8	265.1	260.8	258.6	257.4	257.0	257.2	257.5	257.8
30°	275.0	267.8	262.6	257.8	253.7	251.8	251.5	251.5	252.4	252.5	253.0
32.5°	265.9	259.9	254.7	250.0	247.0	245.6	246.4	246.4	247.0	247.5	248.3
35°	252.5	247.3	243.3	239.3	236.7	237.3	237.7	238.1	239.1	240.3	241.1
37.5°	239.8	235.3	231.1	228.0	226.8	227.8	228.9	229.6	230.8	231.8	232.6
40°	230.7	227.2	223.3	220.4	220.8	221.4	222.2	223.3	224.3	224.9	225.7
42.5°	222.1	218.6	215.5	213.2	213.8	214.6	215.0	215.5	216.7	217.8	218.3
45°	209.2	206.4	203.6	202.2	202.6	203.0	203.4	204.0	205.0	205.8	206.0
47.5°	194.7	192.7	190.8	189.4	190.1	189.9	190.5	191.7	192.0	192.5	193.6
50°	185.4	183.6	181.3	180.9	180.9	180.9	181.2	182.7	182.7	183.6	184.3
52.5°	175.0	173.9	172.5	171.8	171.4	171.4	172.3	173.1	173.4	174.5	175.4
55°	159.9	158.7	157.5	156.9	156.4	156.9	158.4	158.9	159.9	160.5	161.1
57.5°	144.0	143.1	142.2	141.8	141.7	142.2	143.1	144.3	144.6	146.5	147.3
60°	133.6	132.2	131.4	131.4	131.0	132.8	132.4	134.4	134.8	136.0	137.4
62.5°	122.9	121.0	120.6	120.6	121.2	121.7	122.3	123.1	124.2	125.7	126.8
65°	105.5	104.5	105.9	105.7	105.3	106.5	106.5	107.5	108.7	110.1	112.4
67.5°	89.1	88.6	88.7	88.7	89.3	90.0	90.6	91.4	92.9	94.4	95.8
70°	78.0	78.6	77.7	78.4	79.0	79.2	79.6	80.8	82.4	83.4	85.1
72.5°	67.2	67.2	67.3	67.7	68.3	68.6	69.1	70.4	72.2	73.0	74.3
75°	51.7	51.6	52.2	52.2	53.1	53.6	54.0	54.6	56.1	57.3	58.4
77.5°	37.8	38.1	37.9	38.6	38.3	38.4	39.6	40.2	40.4	42.8	43.3
80°	28.5	28.8	29.1	29.3	29.4	29.1	30.5	31.1	31.1	32.5	33.5
82.5°	20.5	20.7	21.2	21.4	21.4	21.9	22.0	22.4	22.9	23.5	24.8
85°	10.2	10.8	11.0	10.8	11.0	10.6	11.2	11.5	11.6	11.6	11.6
87.5°	5.8	6.5	7.1	8.1	8.6	9.6	9.8	9.6	9.9	10.6	10.2
90°	12.7	16.0	19.7	23.4	27.2	30.9	32.0	33.1	34.4	35.5	36.3
92.5°	20.8	21.7	24.5	27.4	30.1	33.0	34.8	36.6	38.5	40.3	41.3
95°	31.6	27.3	30.5	33.6	36.8	39.9	41.9	43.9	45.9	47.9	48.9
97.5°	136.7	123.8	103.2	82.7	62.1	41.4	43.7	46.1	48.3	50.6	51.9
100°	240.4	220.9	176.3	131.7	87.1	42.4	44.8	47.0	49.3	51.7	53.0
102.5°	302.0	279.7	230.9	182.2	133.5	84.7	77.6	70.5	63.5	56.3	53.0
105°	396.1	384.9	359.1	333.4	307.6	281.9	231.3	180.6	130.0	79.4	54.3
107.5°	497.1	500.4	504.5	508.6	512.6	516.7	479.6	442.4	405.3	368.2	330.5
110°	565.2	567.9	571.1	574.2	577.4	580.5	571.1	561.6	552.2	542.8	517.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	630.2	632.8	635.9	639.1	642.2	645.4	645.6	645.8	645.9	646.1	641.9
115°	726.4	728.6	731.2	733.7	736.2	738.8	741.7	744.6	747.4	750.3	752.3
117.5°	822.5	824.2	825.5	826.8	828.1	829.5	831.7	834.1	836.3	838.6	839.9
120°	883.0	884.8	885.5	886.4	887.3	888.1	890.4	892.8	895.0	897.3	898.5
122.5°	940.9	942.5	943.6	944.7	945.7	946.8	948.5	950.0	951.7	953.3	954.2
125°	1023.5	1025.2	1026.3	1027.4	1028.6	1029.8	1030.4	1030.9	1031.5	1032.0	1032.6
127.5°	1102.8	1104.6	1106.0	1107.3	1108.7	1110.1	1110.9	1111.9	1112.8	1113.7	1113.9
130°	1152.2	1153.9	1155.0	1156.2	1157.4	1158.5	1159.6	1160.7	1161.9	1163.0	1163.3
132.5°	1199.5	1201.2	1202.0	1203.0	1203.9	1204.8	1205.9	1207.1	1208.2	1209.4	1209.5
135°	1269.6	1271.0	1272.1	1273.3	1274.5	1275.6	1276.4	1277.3	1278.2	1279.0	1279.0
137.5°	1333.2	1334.6	1335.2	1335.8	1336.5	1337.1	1338.5	1339.9	1341.3	1342.6	1343.0
140°	1372.6	1373.8	1374.7	1375.5	1376.4	1377.3	1378.5	1379.6	1380.7	1381.8	1382.2
142.5°	1410.7	1412.0	1412.8	1413.7	1414.5	1415.4	1416.3	1417.2	1418.2	1419.0	1419.1
145°	1465.1	1466.4	1467.0	1467.5	1468.1	1468.7	1469.2	1469.8	1470.4	1470.9	1471.3
147.5°	1512.5	1513.5	1514.1	1514.7	1515.2	1515.8	1516.4	1516.9	1517.5	1518.1	1517.7
150°	1541.6	1542.3	1542.9	1543.5	1544.0	1544.6	1545.2	1545.8	1546.4	1546.9	1546.8
152.5°	1567.6	1568.0	1568.3	1568.7	1569.0	1569.3	1570.4	1571.4	1572.4	1573.5	1573.3
155°	1602.8	1602.7	1603.0	1603.3	1603.5	1603.8	1605.2	1606.7	1608.1	1609.6	1609.4
157.5°	1635.3	1635.1	1634.8	1634.5	1634.3	1633.9	1635.6	1637.4	1639.1	1640.8	1640.5
160°	1652.9	1652.6	1652.3	1652.0	1651.7	1651.5	1653.2	1654.9	1656.6	1658.3	1658.2
162.5°	1668.5	1668.0	1667.8	1667.5	1667.2	1666.9	1668.9	1670.8	1672.8	1674.6	1674.7
165°	1689.2	1688.7	1688.3	1688.1	1687.8	1687.5	1689.8	1692.0	1694.4	1696.7	1696.8
167.5°	1704.5	1704.0	1704.0	1704.0	1704.0	1704.0	1706.2	1708.6	1710.8	1713.1	1713.1
170°	1713.8	1713.2	1713.2	1713.2	1713.2	1713.2	1715.5	1717.8	1720.1	1722.4	1722.4
172.5°	1719.1	1718.5	1718.7	1719.0	1719.2	1719.4	1721.7	1724.0	1726.3	1728.5	1728.5
175°	1726.8	1726.2	1726.6	1726.8	1727.1	1727.4	1729.4	1731.4	1733.4	1735.4	1735.3
177.5°	1730.0	1729.6	1729.8	1730.0	1730.3	1730.5	1732.3	1734.1	1735.9	1737.8	1737.6
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	395.9	395.7	396.8	396.1	396.8	395.7	395.9	397.0	397.4	397.4	397.4
5°	368.5	369.1	367.0	367.0	367.0	369.1	368.5	369.7	370.7	371.5	372.6
7.5°	344.1	343.2	343.3	342.2	343.3	343.2	344.1	345.0	346.3	348.1	349.7
10°	329.2	328.0	327.5	327.8	327.5	328.0	329.2	331.6	332.3	334.0	335.8
12.5°	316.8	316.6	313.9	313.9	313.9	316.6	316.8	317.5	319.2	322.6	324.7
15°	302.3	298.5	298.1	299.3	298.1	298.5	302.3	302.3	303.1	305.7	306.9
17.5°	287.7	285.7	285.9	285.2	285.9	285.7	287.7	288.0	288.7	290.8	292.4
20°	280.0	278.8	278.6	277.2	278.6	278.8	280.0	280.0	280.9	281.8	283.4
22.5°	272.9	272.6	272.7	271.1	272.7	272.6	272.9	273.5	274.2	274.9	276.0
25°	264.2	265.2	264.3	264.3	264.3	265.2	264.2	264.3	264.6	265.5	266.4
27.5°	258.2	258.2	257.8	257.8	257.8	258.2	258.2	257.8	257.5	257.2	257.0
30°	253.7	253.6	253.9	253.9	253.9	253.6	253.7	253.0	252.5	252.4	251.5
32.5°	249.3	249.5	249.6	249.8	249.6	249.5	249.3	248.3	247.5	247.0	246.4
35°	242.3	242.5	243.1	242.7	243.1	242.5	242.3	241.1	240.3	239.1	238.1
37.5°	232.9	233.8	233.7	233.9	233.7	233.8	232.9	232.6	231.8	230.8	229.6
40°	225.8	226.4	226.3	226.3	226.3	226.4	225.8	225.7	224.9	224.3	223.3
42.5°	218.6	219.0	218.5	218.3	218.5	219.0	218.6	218.3	217.8	216.7	215.5
45°	206.8	206.4	207.0	206.2	207.0	206.4	206.8	206.0	205.8	205.0	204.0
47.5°	193.6	194.0	194.2	194.8	194.2	194.0	193.6	193.6	192.5	192.0	191.7
50°	184.8	186.0	186.0	185.7	186.0	186.0	184.8	184.3	183.6	182.7	182.7
52.5°	176.1	176.6	177.5	177.4	177.5	176.6	176.1	175.4	174.5	173.4	173.1
55°	162.6	163.1	163.5	163.7	163.5	163.1	162.6	161.1	160.5	159.9	158.9
57.5°	148.8	148.6	149.6	149.9	149.6	148.6	148.8	147.3	146.5	144.6	144.3
60°	139.0	139.0	140.6	141.2	140.6	139.0	139.0	137.4	136.0	134.8	134.4
62.5°	128.5	129.2	130.8	130.0	130.8	129.2	128.5	126.8	125.7	124.2	123.1
65°	113.3	114.9	114.8	115.5	114.8	114.9	113.3	112.4	110.1	108.7	107.5
67.5°	97.4	98.4	99.9	100.0	99.9	98.4	97.4	95.8	94.4	92.9	91.4
70°	86.6	87.6	88.4	89.0	88.4	87.6	86.6	85.1	83.4	82.4	80.8
72.5°	76.2	76.7	78.7	77.8	78.7	76.7	76.2	74.3	73.0	72.2	70.4
75°	59.8	61.2	62.4	61.8	62.4	61.2	59.8	58.4	57.3	56.1	54.6
77.5°	44.2	45.6	46.1	45.6	46.1	45.6	44.2	43.3	42.8	40.4	40.2
80°	34.9	34.7	35.9	35.7	35.9	34.7	34.9	33.5	32.5	31.1	31.1
82.5°	25.6	25.4	25.9	26.1	25.9	25.4	25.6	24.8	23.5	22.9	22.4
85°	12.4	13.0	12.2	12.1	12.2	13.0	12.4	11.6	11.6	11.6	11.5
87.5°	10.2	10.4	10.3	10.3	10.3	10.4	10.2	10.2	10.6	9.9	9.6
90°	36.9	37.5	38.1	38.6	38.1	37.5	36.9	36.3	35.5	34.4	33.1
92.5°	41.7	42.0	42.4	42.7	42.4	42.0	41.7	41.3	40.3	38.5	36.6
95°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9
97.5°	52.2	52.4	52.8	53.0	52.8	52.4	52.2	51.9	50.6	48.3	46.1
100°	53.2	53.5	53.8	54.1	53.8	53.5	53.2	53.0	51.7	49.3	47.0
102.5°	53.6	54.1	54.6	55.1	54.6	54.1	53.6	53.0	56.3	63.5	70.5
105°	54.9	55.5	56.1	56.7	56.1	55.5	54.9	54.3	79.4	130.0	180.6
107.5°	292.4	254.2	216.0	177.9	216.0	254.2	292.4	330.5	368.2	405.3	442.4
110°	476.6	435.8	394.9	354.0	394.9	435.8	476.6	517.5	542.8	552.2	561.6



TEST NUMBER: P332114-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	633.2	624.6	616.0	607.3	616.0	624.6	633.2	641.9	646.1	645.9	645.8
115°	753.5	754.6	755.7	756.9	755.7	754.6	753.5	752.3	750.3	747.4	744.6
117.5°	840.1	840.3	840.6	840.8	840.6	840.3	840.1	839.9	838.6	836.3	834.1
120°	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	897.3	895.0	892.8
122.5°	954.4	954.6	954.8	955.1	954.8	954.6	954.4	954.2	953.3	951.7	950.0
125°	1033.2	1033.7	1034.3	1034.9	1034.3	1033.7	1033.2	1032.6	1032.0	1031.5	1030.9
127.5°	1113.4	1112.8	1112.2	1111.6	1112.2	1112.8	1113.4	1113.9	1113.7	1112.8	1111.9
130°	1162.8	1162.2	1161.6	1161.1	1161.6	1162.2	1162.8	1163.3	1163.0	1161.9	1160.7
132.5°	1208.8	1208.0	1207.1	1206.3	1207.1	1208.0	1208.8	1209.5	1209.4	1208.2	1207.1
135°	1278.2	1277.3	1276.4	1275.6	1276.4	1277.3	1278.2	1279.0	1279.0	1278.2	1277.3
137.5°	1342.5	1341.9	1341.3	1340.7	1341.3	1341.9	1342.5	1343.0	1342.6	1341.3	1339.9
140°	1381.6	1381.0	1380.4	1379.8	1380.4	1381.0	1381.6	1382.2	1381.8	1380.7	1379.6
142.5°	1418.3	1417.5	1416.7	1415.9	1416.7	1417.5	1418.3	1419.1	1419.0	1418.2	1417.2
145°	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1470.9	1470.4	1469.8
147.5°	1516.4	1515.1	1513.7	1512.4	1513.7	1515.1	1516.4	1517.7	1518.1	1517.5	1516.9
150°	1545.9	1545.1	1544.2	1543.3	1544.2	1545.1	1545.9	1546.8	1546.9	1546.4	1545.8
152.5°	1572.0	1570.6	1569.3	1568.1	1569.3	1570.6	1572.0	1573.3	1573.5	1572.4	1571.4
155°	1607.7	1605.9	1604.2	1602.6	1604.2	1605.9	1607.7	1609.4	1609.6	1608.1	1606.7
157.5°	1638.3	1636.1	1633.8	1631.6	1633.8	1636.1	1638.3	1640.5	1640.8	1639.1	1637.4
160°	1656.1	1654.2	1652.2	1650.2	1652.2	1654.2	1656.1	1658.2	1658.3	1656.6	1654.9
162.5°	1673.0	1671.2	1669.5	1667.7	1669.5	1671.2	1673.0	1674.7	1674.6	1672.8	1670.8
165°	1694.8	1692.8	1690.7	1688.8	1690.7	1692.8	1694.8	1696.8	1696.7	1694.4	1692.0
167.5°	1710.8	1708.6	1706.2	1704.0	1706.2	1708.6	1710.8	1713.1	1713.1	1710.8	1708.6
170°	1720.1	1717.8	1715.5	1713.2	1715.5	1717.8	1720.1	1722.4	1722.4	1720.1	1717.8
172.5°	1726.0	1723.5	1720.9	1718.4	1720.9	1723.5	1726.0	1728.5	1728.5	1726.3	1724.0
175°	1732.9	1730.7	1728.4	1726.1	1728.4	1730.7	1732.9	1735.3	1735.4	1733.4	1731.4
177.5°	1735.3	1733.0	1730.7	1728.5	1730.7	1733.0	1735.3	1737.6	1737.8	1735.9	1734.1
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	397.0	397.0	400.0	402.0	404.4	406.0	407.1	408.2	410.2	412.7	415.6
5°	374.3	375.1	379.5	383.9	388.1	391.8	394.8	398.4	402.8	408.2	414.2
7.5°	352.3	355.4	359.8	365.2	371.1	376.3	381.7	387.6	393.9	401.8	410.3
10°	338.2	341.6	347.0	353.9	360.1	366.3	372.9	379.3	387.1	396.6	407.4
12.5°	325.8	329.1	334.7	342.1	348.0	354.9	362.5	370.8	379.6	390.9	403.2
15°	308.7	312.5	319.3	323.0	332.0	340.2	347.2	359.2	370.5	382.1	396.3
17.5°	294.6	296.8	302.3	309.0	315.7	325.0	334.2	344.2	355.4	369.6	387.4
20°	285.0	286.8	292.8	299.9	307.1	315.6	323.7	333.8	346.4	361.4	380.7
22.5°	277.8	279.7	283.7	291.2	297.9	305.0	313.1	325.1	338.5	353.3	374.1
25°	267.3	268.5	271.2	277.2	283.2	291.0	298.3	309.5	323.3	340.6	361.4
27.5°	257.4	258.6	260.8	265.1	270.8	277.1	285.0	294.5	308.5	327.3	349.4
30°	251.5	251.8	253.7	257.8	262.6	267.8	275.0	285.9	299.1	318.1	341.4
32.5°	246.4	245.6	247.0	250.0	254.7	259.9	265.9	276.6	289.3	308.0	331.9
35°	237.7	237.3	236.7	239.3	243.3	247.3	252.5	260.5	275.0	292.5	317.5
37.5°	228.9	227.8	226.8	228.0	231.1	235.3	239.8	246.9	259.4	278.6	302.6
40°	222.2	221.4	220.8	220.4	223.3	227.2	230.7	237.5	249.1	267.3	291.0
42.5°	215.0	214.6	213.8	213.2	215.5	218.6	222.1	228.2	239.8	256.9	279.3
45°	203.4	203.0	202.6	202.2	203.6	206.4	209.2	213.6	223.7	240.3	260.5
47.5°	190.5	189.9	190.1	189.4	190.8	192.7	194.7	199.4	209.0	222.5	237.3
50°	181.2	180.9	180.9	180.9	181.3	183.6	185.4	189.0	197.8	211.2	221.9
52.5°	172.3	171.4	171.4	171.8	172.5	173.9	175.0	179.0	186.7	197.8	207.4
55°	158.4	156.9	156.4	156.9	157.5	158.7	159.9	163.1	169.7	177.9	183.6
57.5°	143.1	142.2	141.7	141.8	142.2	143.1	144.0	147.5	152.7	157.0	160.7
60°	132.4	132.8	131.0	131.4	131.4	132.2	133.6	135.8	140.2	143.2	146.8
62.5°	122.3	121.7	121.2	120.6	120.6	121.0	122.9	124.6	128.4	129.9	132.7
65°	106.5	106.5	105.3	105.7	105.9	104.5	105.5	107.5	109.9	110.6	113.1
67.5°	90.6	90.0	89.3	88.7	88.7	88.6	89.1	90.1	91.9	92.1	94.1
70°	79.6	79.2	79.0	78.4	77.7	78.6	78.0	79.0	80.1	80.2	81.5
72.5°	69.1	68.6	68.3	67.7	67.3	67.2	67.2	68.4	69.1	68.9	70.2
75°	54.0	53.6	53.1	52.2	52.2	51.6	51.7	52.5	53.4	52.8	54.0
77.5°	39.6	38.4	38.3	38.6	37.9	38.1	37.8	37.7	38.1	38.1	39.2
80°	30.5	29.1	29.4	29.3	29.1	28.8	28.5	28.7	28.8	29.1	29.7
82.5°	22.0	21.9	21.4	21.4	21.2	20.7	20.5	20.8	21.0	20.9	21.4
85°	11.2	10.6	11.0	10.8	11.0	10.8	10.2	10.2	10.6	10.4	10.8
87.5°	9.8	9.6	8.6	8.1	7.1	6.5	5.8	5.3	4.9	4.4	4.1
90°	32.0	30.9	27.2	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3
92.5°	34.8	33.0	30.1	27.4	24.5	21.7	20.8	21.5	22.3	23.2	23.9
95°	41.9	39.9	36.8	33.6	30.5	27.3	31.6	43.3	55.1	66.8	78.5
97.5°	43.7	41.4	62.1	82.7	103.2	123.8	136.7	142.0	147.3	152.6	157.8
100°	44.8	42.4	87.1	131.7	176.3	220.9	240.4	234.7	228.9	223.3	217.6
102.5°	77.6	84.7	133.5	182.2	230.9	279.7	302.0	297.8	293.8	289.6	285.5
105°	231.3	281.9	307.6	333.4	359.1	384.9	396.1	393.0	389.9	386.8	383.6
107.5°	479.6	516.7	512.6	508.6	504.5	500.4	497.1	494.6	492.1	489.6	487.1
110°	571.1	580.5	577.4	574.2	571.1	567.9	565.2	562.9	560.6	558.4	556.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	645.6	645.4	642.2	639.1	635.9	632.8	630.2	628.2	626.1	624.1	622.0
115°	741.7	738.8	736.2	733.7	731.2	728.6	726.4	724.7	723.0	721.3	719.5
117.5°	831.7	829.5	828.1	826.8	825.5	824.2	822.5	820.4	818.2	816.1	814.0
120°	890.4	888.1	887.3	886.4	885.5	884.8	883.0	880.5	877.9	875.3	872.7
122.5°	948.5	946.8	945.7	944.7	943.6	942.5	940.9	938.7	936.7	934.5	932.5
125°	1030.4	1029.8	1028.6	1027.4	1026.3	1025.2	1023.5	1021.1	1018.9	1016.6	1014.3
127.5°	1110.9	1110.1	1108.7	1107.3	1106.0	1104.6	1102.8	1100.4	1098.2	1095.9	1093.6
130°	1159.6	1158.5	1157.4	1156.2	1155.0	1153.9	1152.2	1149.9	1147.6	1145.3	1143.0
132.5°	1205.9	1204.8	1203.9	1203.0	1202.0	1201.2	1199.5	1197.2	1195.0	1192.7	1190.4
135°	1276.4	1275.6	1274.5	1273.3	1272.1	1271.0	1269.6	1267.9	1266.2	1264.5	1262.7
137.5°	1338.5	1337.1	1336.5	1335.8	1335.2	1334.6	1333.2	1331.0	1328.9	1326.7	1324.5
140°	1378.5	1377.3	1376.4	1375.5	1374.7	1373.8	1372.6	1370.9	1369.2	1367.4	1365.7
142.5°	1416.3	1415.4	1414.5	1413.7	1412.8	1412.0	1410.7	1408.9	1407.2	1405.5	1403.8
145°	1469.2	1468.7	1468.1	1467.5	1467.0	1466.4	1465.1	1463.1	1461.1	1459.1	1457.1
147.5°	1516.4	1515.8	1515.2	1514.7	1514.1	1513.5	1512.5	1511.2	1509.9	1508.6	1507.3
150°	1545.2	1544.6	1544.0	1543.5	1542.9	1542.3	1541.6	1540.8	1539.9	1539.0	1538.2
152.5°	1570.4	1569.3	1569.0	1568.7	1568.3	1568.0	1567.6	1567.2	1566.8	1566.4	1566.0
155°	1605.2	1603.8	1603.5	1603.3	1603.0	1602.7	1602.8	1603.4	1604.0	1604.6	1605.1
157.5°	1635.6	1633.9	1634.3	1634.5	1634.8	1635.1	1635.3	1635.3	1635.4	1635.5	1635.5
160°	1653.2	1651.5	1651.7	1652.0	1652.3	1652.6	1652.9	1653.2	1653.5	1653.7	1654.1
162.5°	1668.9	1666.9	1667.2	1667.5	1667.8	1668.0	1668.5	1669.3	1670.1	1670.8	1671.5
165°	1689.8	1687.5	1687.8	1688.1	1688.3	1688.7	1689.2	1690.1	1690.9	1691.8	1692.6
167.5°	1706.2	1704.0	1704.0	1704.0	1704.0	1704.0	1704.5	1705.7	1706.8	1708.0	1709.1
170°	1715.5	1713.2	1713.2	1713.2	1713.2	1713.2	1713.8	1714.9	1716.1	1717.3	1718.4
172.5°	1721.7	1719.4	1719.2	1719.0	1718.7	1718.5	1719.1	1720.5	1721.8	1723.2	1724.6
175°	1729.4	1727.4	1727.1	1726.8	1726.6	1726.2	1726.8	1728.3	1729.7	1731.1	1732.5
177.5°	1732.3	1730.5	1730.3	1730.0	1729.8	1729.6	1730.0	1731.2	1732.3	1733.5	1734.6
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	416.6	417.4	420.1	422.1	424.3	425.6	426.8	427.8	429.1	429.4	434.0
5°	418.4	422.4	429.5	434.6	441.1	448.1	452.9	455.1	461.0	465.7	475.4
7.5°	417.9	426.5	437.0	448.1	459.8	470.7	480.2	491.5	499.4	511.4	523.2
10°	417.4	428.9	442.5	456.5	472.9	488.2	501.9	517.1	529.8	546.4	560.6
12.5°	415.9	429.8	448.8	465.4	485.3	506.4	526.6	546.1	557.3	585.0	598.1
15°	412.4	428.9	452.5	477.8	505.2	530.1	555.8	576.3	609.3	633.6	649.1
17.5°	405.6	428.6	456.7	487.2	520.6	553.4	582.5	613.5	648.6	678.0	709.3
20°	402.3	427.7	458.9	492.7	527.4	564.5	597.5	634.8	673.1	702.1	742.2
22.5°	396.4	425.1	458.7	496.3	533.4	571.8	610.5	648.2	692.4	732.2	770.4
25°	386.8	418.8	453.7	495.7	539.2	577.6	624.1	674.0	720.1	771.3	809.3
27.5°	376.5	410.8	445.7	484.7	531.6	577.3	635.6	692.0	748.4	792.6	820.8
30°	368.7	402.0	438.1	477.4	523.7	578.1	643.3	704.8	759.8	797.7	813.6
32.5°	360.2	393.9	425.9	467.1	516.5	577.6	648.1	712.4	760.4	785.7	782.6
35°	346.8	375.1	406.2	445.9	504.0	574.0	650.9	713.1	742.5	737.1	696.2
37.5°	327.5	351.4	381.9	425.4	489.7	566.6	645.2	691.9	690.0	645.9	586.6
40°	315.6	335.8	365.2	411.0	478.4	561.8	636.5	666.8	641.1	579.5	508.5
42.5°	299.8	318.5	347.9	394.9	466.1	552.1	619.6	628.4	578.2	507.3	442.2
45°	275.4	291.9	322.4	370.9	447.5	530.7	578.5	557.0	489.4	416.2	366.7
47.5°	249.2	266.3	295.6	345.5	420.7	498.7	521.4	475.8	406.4	347.0	301.5
50°	232.6	249.1	277.8	328.1	402.6	472.3	481.8	422.8	359.0	306.9	269.6
52.5°	216.0	231.4	259.7	310.2	381.4	441.9	436.1	376.0	317.4	272.9	243.6
55°	191.1	205.8	232.6	280.0	344.8	392.7	371.7	314.4	265.8	231.3	209.0
57.5°	168.9	183.0	206.1	248.9	305.2	338.2	311.4	263.0	224.5	197.9	181.3
60°	153.9	166.3	188.4	228.1	277.0	302.0	275.6	232.9	200.4	179.1	164.3
62.5°	139.6	150.4	170.8	206.9	249.4	270.4	243.7	207.5	179.9	161.0	148.4
65°	118.0	127.8	145.9	173.9	208.8	222.8	199.8	170.5	149.0	135.0	126.6
67.5°	98.2	106.6	122.2	144.2	170.0	180.1	162.6	139.9	123.7	112.4	105.8
70°	85.1	92.3	104.5	123.6	146.8	154.6	138.2	119.5	107.7	98.7	92.5
72.5°	74.0	79.3	90.4	105.1	124.5	130.7	119.2	102.9	91.9	85.1	80.1
75°	56.4	60.8	68.0	79.8	93.2	96.9	88.3	78.0	70.6	65.8	62.0
77.5°	40.6	43.9	49.1	56.4	65.7	69.0	63.5	56.7	51.2	48.0	45.9
80°	30.7	33.3	37.7	43.7	49.3	51.1	48.0	42.7	38.9	37.1	35.3
82.5°	22.6	24.1	26.8	30.9	34.7	36.9	34.2	31.0	28.9	27.3	26.6
85°	11.5	12.2	13.4	15.1	17.5	18.3	17.2	16.4	15.2	14.2	14.2
87.5°	5.0	5.6	6.6	7.5	8.8	10.1	10.6	11.0	11.6	11.7	11.8
90°	4.1	7.0	9.9	12.7	16.0	19.7	23.4	27.2	30.9	32.0	33.1
92.5°	23.2	22.3	21.5	20.8	21.7	24.5	27.4	30.1	33.0	34.8	36.6
95°	66.8	55.1	43.3	31.6	27.3	30.5	33.6	36.8	39.9	41.9	43.9
97.5°	152.6	147.3	142.0	136.7	123.8	103.2	82.7	62.1	41.4	43.7	46.1
100°	223.3	228.9	234.7	240.4	220.9	176.3	131.7	87.1	42.4	44.8	47.0
102.5°	289.6	293.8	297.8	302.0	279.7	230.9	182.2	133.5	84.7	77.6	70.5
105°	386.8	389.9	393.0	396.1	384.9	359.1	333.4	307.6	281.9	231.3	180.6
107.5°	489.6	492.1	494.6	497.1	500.4	504.5	508.6	512.6	516.7	479.6	442.4
110°	558.4	560.6	562.9	565.2	567.9	571.1	574.2	577.4	580.5	571.1	561.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	624.1	626.1	628.2	630.2	632.8	635.9	639.1	642.2	645.4	645.6	645.8
115°	721.3	723.0	724.7	726.4	728.6	731.2	733.7	736.2	738.8	741.7	744.6
117.5°	816.1	818.2	820.4	822.5	824.2	825.5	826.8	828.1	829.5	831.7	834.1
120°	875.3	877.9	880.5	883.0	884.8	885.5	886.4	887.3	888.1	890.4	892.8
122.5°	934.5	936.7	938.7	940.9	942.5	943.6	944.7	945.7	946.8	948.5	950.0
125°	1016.6	1018.9	1021.1	1023.5	1025.2	1026.3	1027.4	1028.6	1029.8	1030.4	1030.9
127.5°	1095.9	1098.2	1100.4	1102.8	1104.6	1106.0	1107.3	1108.7	1110.1	1110.9	1111.9
130°	1145.3	1147.6	1149.9	1152.2	1153.9	1155.0	1156.2	1157.4	1158.5	1159.6	1160.7
132.5°	1192.7	1195.0	1197.2	1199.5	1201.2	1202.0	1203.0	1203.9	1204.8	1205.9	1207.1
135°	1264.5	1266.2	1267.9	1269.6	1271.0	1272.1	1273.3	1274.5	1275.6	1276.4	1277.3
137.5°	1326.7	1328.9	1331.0	1333.2	1334.6	1335.2	1335.8	1336.5	1337.1	1338.5	1339.9
140°	1367.4	1369.2	1370.9	1372.6	1373.8	1374.7	1375.5	1376.4	1377.3	1378.5	1379.6
142.5°	1405.5	1407.2	1408.9	1410.7	1412.0	1412.8	1413.7	1414.5	1415.4	1416.3	1417.2
145°	1459.1	1461.1	1463.1	1465.1	1466.4	1467.0	1467.5	1468.1	1468.7	1469.2	1469.8
147.5°	1508.6	1509.9	1511.2	1512.5	1513.5	1514.1	1514.7	1515.2	1515.8	1516.4	1516.9
150°	1539.0	1539.9	1540.8	1541.6	1542.3	1542.9	1543.5	1544.0	1544.6	1545.2	1545.8
152.5°	1566.4	1566.8	1567.2	1567.6	1568.0	1568.3	1568.7	1569.0	1569.3	1570.4	1571.4
155°	1604.6	1604.0	1603.4	1602.8	1602.7	1603.0	1603.3	1603.5	1603.8	1605.2	1606.7
157.5°	1635.5	1635.4	1635.3	1635.3	1635.1	1634.8	1634.5	1634.3	1633.9	1635.6	1637.4
160°	1653.7	1653.5	1653.2	1652.9	1652.6	1652.3	1652.0	1651.7	1651.5	1653.2	1654.9
162.5°	1670.8	1670.1	1669.3	1668.5	1668.0	1667.8	1667.5	1667.2	1666.9	1668.9	1670.8
165°	1691.8	1690.9	1690.1	1689.2	1688.7	1688.3	1688.1	1687.8	1687.5	1689.8	1692.0
167.5°	1708.0	1706.8	1705.7	1704.5	1704.0	1704.0	1704.0	1704.0	1704.0	1706.2	1708.6
170°	1717.3	1716.1	1714.9	1713.8	1713.2	1713.2	1713.2	1713.2	1713.2	1715.5	1717.8
172.5°	1723.2	1721.8	1720.5	1719.1	1718.5	1718.7	1719.0	1719.2	1719.4	1721.7	1724.0
175°	1731.1	1729.7	1728.3	1726.8	1726.2	1726.6	1726.8	1727.1	1727.4	1729.4	1731.4
177.5°	1733.5	1732.3	1731.2	1730.0	1729.6	1729.8	1730.0	1730.3	1730.5	1732.3	1734.1
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	435.7	435.8	437.6	438.9	438.2	439.0	439.4
5°	476.0	483.2	487.0	489.8	490.0	490.3	491.8
7.5°	533.1	540.9	546.6	555.2	557.7	560.6	559.8
10°	574.9	586.3	596.2	601.3	607.0	615.2	608.6
12.5°	613.9	634.1	649.1	657.2	662.5	664.1	660.9
15°	678.2	704.6	718.8	718.5	736.5	744.3	732.1
17.5°	737.1	761.6	781.2	791.2	806.2	809.5	808.0
20°	773.3	800.0	815.2	832.4	840.2	847.2	848.4
22.5°	804.3	828.4	844.7	859.0	865.6	868.9	870.9
25°	836.5	855.3	865.1	870.1	871.9	871.5	868.9
27.5°	834.2	835.7	824.8	814.2	804.7	794.0	790.3
30°	812.5	795.7	765.6	748.6	723.5	703.6	711.7
32.5°	755.6	722.0	688.3	651.0	620.2	611.4	602.5
35°	644.9	585.9	551.4	511.3	495.2	479.2	468.1
37.5°	521.7	476.1	435.1	409.0	392.9	382.7	377.3
40°	451.1	410.0	376.3	355.0	342.8	331.4	329.8
42.5°	394.8	356.5	331.2	314.3	302.6	297.6	294.1
45°	323.3	296.7	279.7	267.6	259.8	256.8	252.7
47.5°	273.7	254.9	242.0	233.8	227.9	225.7	225.4
50°	245.9	230.2	220.8	214.4	209.8	209.0	205.8
52.5°	225.1	211.5	204.1	198.5	195.2	193.0	192.0
55°	195.4	186.3	179.7	176.5	173.9	171.7	171.7
57.5°	170.9	163.4	159.0	156.3	155.5	153.9	152.9
60°	155.8	149.5	146.0	143.6	142.0	142.2	140.4
62.5°	141.1	136.9	133.6	131.3	129.3	129.4	129.5
65°	120.1	116.9	114.5	113.7	112.5	111.2	111.5
67.5°	101.9	98.8	96.9	95.6	95.1	94.4	95.6
70°	88.7	86.4	85.1	83.9	83.4	83.6	84.6
72.5°	76.6	75.1	74.1	73.6	72.7	72.8	73.4
75°	60.2	59.0	58.2	57.6	57.3	57.3	57.3
77.5°	44.2	43.9	43.6	42.7	42.7	43.0	43.0
80°	34.9	34.3	34.1	33.7	33.1	32.7	33.7
82.5°	26.1	25.5	25.3	25.2	24.3	24.2	25.1
85°	14.0	13.4	13.6	13.4	13.4	13.3	13.3
87.5°	11.9	11.9	11.9	12.2	12.1	12.1	12.6
90°	34.4	35.5	36.3	36.9	37.5	38.1	38.6
92.5°	38.5	40.3	41.3	41.7	42.0	42.4	42.7
95°	45.9	47.9	48.9	48.9	48.9	48.9	48.9
97.5°	48.3	50.6	51.9	52.2	52.4	52.8	53.0
100°	49.3	51.7	53.0	53.2	53.5	53.8	54.1
102.5°	63.5	56.3	53.0	53.6	54.1	54.6	55.1
105°	130.0	79.4	54.3	54.9	55.5	56.1	56.7
107.5°	405.3	368.2	330.5	292.4	254.2	216.0	177.9
110°	552.2	542.8	517.5	476.6	435.8	394.9	354.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	645.9	646.1	641.9	633.2	624.6	616.0	607.3
115°	747.4	750.3	752.3	753.5	754.6	755.7	756.9
117.5°	836.3	838.6	839.9	840.1	840.3	840.6	840.8
120°	895.0	897.3	898.5	898.5	898.5	898.5	898.5
122.5°	951.7	953.3	954.2	954.4	954.6	954.8	955.1
125°	1031.5	1032.0	1032.6	1033.2	1033.7	1034.3	1034.9
127.5°	1112.8	1113.7	1113.9	1113.4	1112.8	1112.2	1111.6
130°	1161.9	1163.0	1163.3	1162.8	1162.2	1161.6	1161.1
132.5°	1208.2	1209.4	1209.5	1208.8	1208.0	1207.1	1206.3
135°	1278.2	1279.0	1279.0	1278.2	1277.3	1276.4	1275.6
137.5°	1341.3	1342.6	1343.0	1342.5	1341.9	1341.3	1340.7
140°	1380.7	1381.8	1382.2	1381.6	1381.0	1380.4	1379.8
142.5°	1418.2	1419.0	1419.1	1418.3	1417.5	1416.7	1415.9
145°	1470.4	1470.9	1471.3	1471.3	1471.3	1471.3	1471.3
147.5°	1517.5	1518.1	1517.7	1516.4	1515.1	1513.7	1512.4
150°	1546.4	1546.9	1546.8	1545.9	1545.1	1544.2	1543.3
152.5°	1572.4	1573.5	1573.3	1572.0	1570.6	1569.3	1568.1
155°	1608.1	1609.6	1609.4	1607.7	1605.9	1604.2	1602.6
157.5°	1639.1	1640.8	1640.5	1638.3	1636.1	1633.8	1631.6
160°	1656.6	1658.3	1658.2	1656.1	1654.2	1652.2	1650.2
162.5°	1672.8	1674.6	1674.7	1673.0	1671.2	1669.5	1667.7
165°	1694.4	1696.7	1696.8	1694.8	1692.8	1690.7	1688.8
167.5°	1710.8	1713.1	1713.1	1710.8	1708.6	1706.2	1704.0
170°	1720.1	1722.4	1722.4	1720.1	1717.8	1715.5	1713.2
172.5°	1726.3	1728.5	1728.5	1726.0	1723.5	1720.9	1718.4
175°	1733.4	1735.4	1735.3	1732.9	1730.7	1728.4	1726.1
177.5°	1735.9	1737.8	1737.6	1735.3	1733.0	1730.7	1728.5
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5

(END OF REPORT)