

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: P332427-935

Luminaire Tested: **S123RDIW-S560D1535U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332427-935
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: S123RDIW-S560D1535U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6502.3 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

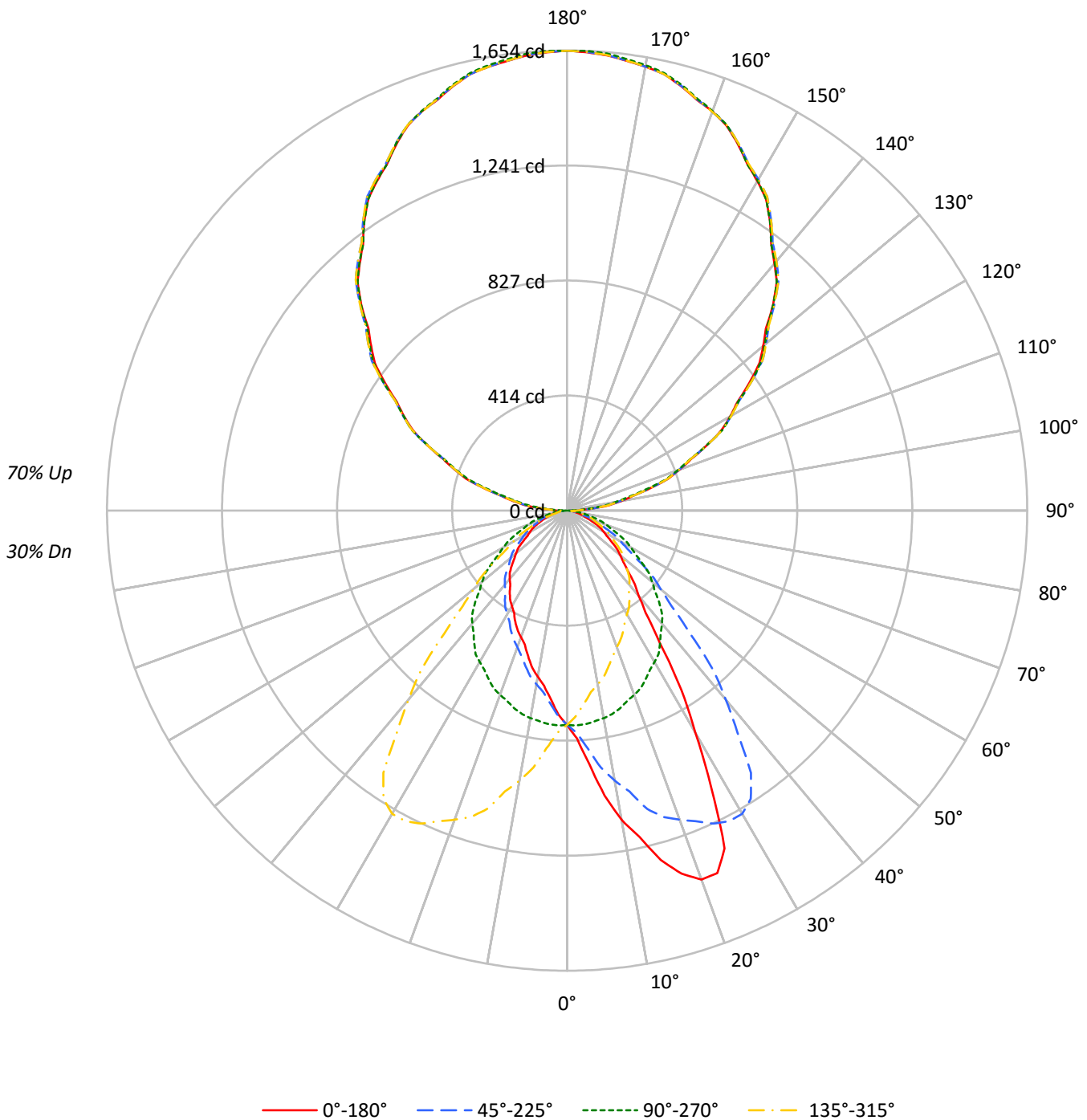
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	30
1	94	89	86	83	84	80	77	75	63	61	60	48	47	45	33	33	32	26
2	85	78	73	68	76	71	66	62	56	53	50	42	40	38	30	29	28	22
3	78	69	62	57	70	62	57	52	50	46	42	38	35	33	27	25	24	19
4	72	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	66	55	47	41	59	49	43	38	40	35	31	30	27	25	22	20	18	15
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	37	31	50	40	34	29	32	28	24	25	22	19	18	16	14	12
8	52	40	33	28	46	36	30	26	29	25	21	23	20	17	17	15	13	10
9	48	37	29	25	43	33	27	23	27	22	19	21	18	15	15	13	12	10
10	45	33	27	22	40	30	24	20	25	20	17	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8291	8291	8291	8291
5°	9884	8327	7333	8327
10°	12342	8279	6625	8279
15°	14487	8195	6042	8195
20°	16167	8069	5545	8069
25°	15909	7935	5241	7935
30°	11436	7812	4927	7812
35°	7636	7653	4724	7653
40°	5626	7461	4513	7461
45°	4719	7124	4306	7124
50°	4165	6683	4019	6683
55°	3652	6178	3626	6178
60°	3251	5694	3324	5694
65°	2855	5173	3092	5173
70°	2241	4711	2823	4711
75°	1975	4113	2578	4113
80°	1717	3496	2535	3496
85°	1383	2803	2692	2803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	1.2
10°-20°	236.7	3.6
20°-30°	371.8	5.7
30°-40°	387.9	6.0
40°-50°	332.0	5.1
50°-60°	253.0	3.9
60°-70°	162.2	2.5
70°-80°	78.0	1.2
80°-90°	25.5	0.4
90°-100°	107.7	1.7
100°-110°	322.3	5.0
110°-120°	548.1	8.4
120°-130°	721.0	11.1
130°-140°	810.4	12.5
140°-150°	796.6	12.3
150°-160°	670.6	10.3
160°-170°	446.4	6.9
170°-180°	156.3	2.4
0°-30°	684.3	10.5
0°-40°	1072.2	16.5
0°-60°	1657.2	25.5
0°-90°	1923.0	29.6
90°-120°	978.1	15.0
90°-150°	3306.0	50.8
90°-180°	4579.0	70.4
0°-180°	6502.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	770	770	770	770	770	
5°	915	771	679	771	915	94
15°	1300	735	542	735	1300	369
25°	1340	668	441	668	1340	576
35°	581	582	360	582	581	381
45°	310	468	283	468	310	244
55°	195	329	193	329	195	176
65°	112	203	121	203	112	110
75°	48	99	62	99	48	51
85°	11	23	22	23	11	14
90°	39	1	39	1	39	19
95°	101	77	101	77	101	104
105°	309	292	309	292	309	328
115°	553	552	553	552	553	548
125°	798	808	798	808	798	714
135°	1046	1048	1046	1048	1046	805
145°	1271	1271	1271	1271	1271	793
155°	1453	1455	1453	1455	1453	669
165°	1580	1585	1580	1585	1580	446
175°	1642	1649	1642	1649	1642	156
180°	1653	1653	1653	1653	1653	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	820.4	821.6	818.1	817.6	813.6	812.6	812.6	807.0	803.6	799.1	796.5
5°	914.8	920.1	917.5	911.5	901.6	899.3	893.0	883.1	871.9	858.1	851.5
7.5°	1032.6	1039.8	1037.0	1027.9	1017.5	1009.1	991.4	975.0	952.0	931.9	914.6
10°	1129.2	1121.5	1115.7	1106.7	1097.2	1081.7	1063.2	1037.8	1008.5	985.4	959.7
12.5°	1201.4	1200.2	1192.7	1183.5	1170.0	1155.3	1132.6	1101.6	1067.6	1034.1	1004.8
15°	1300.0	1302.0	1297.0	1287.5	1268.3	1242.3	1208.0	1195.2	1146.3	1110.0	1073.8
17.5°	1368.2	1367.8	1367.1	1353.8	1334.4	1315.8	1284.0	1250.2	1206.0	1154.9	1106.0
20°	1411.4	1408.2	1408.9	1394.0	1379.5	1358.1	1327.1	1277.9	1241.6	1182.6	1132.1
22.5°	1410.4	1409.7	1412.2	1407.1	1396.6	1380.2	1355.8	1314.3	1268.0	1208.4	1151.7
25°	1339.5	1337.0	1352.5	1356.7	1373.6	1376.5	1369.2	1346.5	1302.6	1241.3	1171.0
27.5°	1121.1	1119.6	1148.4	1184.4	1230.1	1265.6	1299.9	1316.4	1302.6	1258.7	1188.4
30°	920.1	951.1	965.6	1017.7	1075.7	1145.0	1205.7	1263.3	1277.6	1258.4	1200.8
32.5°	763.9	790.9	803.1	847.8	901.9	983.0	1074.0	1155.7	1213.5	1228.1	1193.3
35°	581.1	581.4	609.1	628.9	679.0	762.4	850.8	960.3	1069.1	1151.6	1160.2
37.5°	463.6	465.3	482.1	501.8	539.4	583.5	661.3	752.3	878.0	1004.6	1078.8
40°	400.4	403.3	415.9	435.3	462.4	495.7	556.4	642.0	746.9	887.8	1002.9
42.5°	359.7	364.5	371.0	386.0	402.7	433.9	483.0	549.2	644.5	777.7	910.5
45°	310.0	312.6	317.5	324.5	339.7	361.4	394.4	438.9	518.1	625.3	758.2
47.5°	273.5	272.1	277.2	282.9	293.0	307.8	329.9	366.3	422.8	508.7	621.5
50°	248.7	248.3	251.9	256.2	265.8	276.7	294.8	322.2	367.0	438.2	541.5
52.5°	225.4	226.7	229.3	234.6	241.5	250.3	266.6	286.3	324.9	386.3	472.3
55°	194.6	195.5	199.1	202.2	207.1	216.0	226.3	242.7	269.1	311.9	382.9
57.5°	168.4	168.0	171.5	172.2	177.8	185.0	193.0	205.8	224.9	256.8	304.5
60°	151.0	150.1	153.0	155.3	158.3	164.2	170.8	183.4	198.5	222.0	262.9
62.5°	135.2	134.7	136.9	139.2	141.6	147.1	152.7	162.2	174.3	194.0	226.4
65°	112.1	113.1	114.1	115.1	116.4	119.7	125.0	131.6	139.8	153.7	177.1
67.5°	88.1	89.1	89.5	91.4	94.3	96.3	99.6	105.5	111.2	122.9	136.2
70°	71.2	70.9	71.2	72.2	75.9	79.5	83.8	88.1	91.7	100.0	111.2
72.5°	61.2	60.6	61.5	61.6	63.5	64.4	67.2	71.2	75.9	81.5	89.5
75°	47.5	47.5	47.5	47.5	48.8	49.5	50.5	51.5	53.1	55.7	61.6
77.5°	35.1	35.1	35.6	35.9	36.2	36.6	37.2	38.2	38.7	40.2	42.7
80°	27.7	28.1	27.7	28.1	28.1	28.7	29.0	30.0	30.3	32.0	33.0
82.5°	20.8	20.7	20.8	21.2	21.2	21.9	21.9	22.6	22.7	23.5	24.5
85°	11.2	10.6	11.2	10.8	11.5	10.8	11.2	11.9	11.9	12.2	13.5
87.5°	10.4	10.8	10.2	10.3	10.2	10.3	10.1	9.9	10.2	9.6	9.2
90°	38.9	38.4	37.8	37.2	36.7	35.8	34.6	33.5	32.3	31.2	27.4
92.5°	52.4	52.8	53.1	53.5	53.8	53.6	52.6	51.7	50.8	49.9	47.7
95°	101.3	101.3	101.3	101.3	101.3	100.7	99.5	98.4	97.2	96.1	93.8
97.5°	155.8	155.9	156.0	156.2	156.3	155.7	154.3	153.0	151.7	150.3	148.7
100°	197.3	196.7	196.2	195.6	195.0	194.3	193.5	192.6	191.7	190.9	189.4
102.5°	240.0	240.0	240.1	240.3	240.4	240.0	239.2	238.3	237.5	236.5	234.6
105°	309.0	308.4	307.9	307.3	306.7	306.4	306.4	306.4	306.4	306.4	303.8
107.5°	380.9	381.3	381.6	381.9	382.3	382.0	381.1	380.2	379.3	378.3	377.3
110°	429.7	430.3	430.9	431.4	432.0	431.8	430.6	429.5	428.3	427.1	426.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	481.6	481.8	481.9	482.1	482.2	481.5	480.1	478.7	477.3	476.0	475.9
115°	553.1	553.4	553.7	554.0	554.2	554.2	554.0	553.7	553.4	553.1	553.7
117.5°	625.5	626.4	627.2	627.9	628.8	629.2	629.3	629.3	629.4	629.5	630.2
120°	676.4	677.0	677.6	678.2	678.7	679.2	679.5	679.8	680.0	680.4	681.7
122.5°	725.2	726.1	726.9	727.7	728.5	729.3	730.0	730.7	731.5	732.3	733.1
125°	798.5	799.6	800.8	801.9	803.1	804.3	805.4	806.6	807.7	808.9	809.4
127.5°	871.4	872.8	874.1	875.5	876.8	878.2	879.9	881.5	883.0	884.7	885.4
130°	919.2	921.3	923.3	925.3	927.3	928.9	930.1	931.2	932.4	933.5	934.4
132.5°	969.1	970.6	972.2	973.8	975.3	976.8	978.2	979.6	980.9	982.3	982.9
135°	1046.5	1047.1	1047.6	1048.2	1048.8	1049.6	1050.8	1052.0	1053.1	1054.3	1054.6
137.5°	1114.7	1115.9	1117.0	1118.0	1119.1	1120.3	1121.5	1122.7	1123.9	1125.2	1124.4
140°	1159.4	1161.4	1163.5	1165.4	1167.5	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5
142.5°	1205.1	1206.7	1208.2	1209.8	1211.3	1212.3	1212.5	1212.9	1213.1	1213.4	1212.9
145°	1271.1	1272.2	1273.4	1274.5	1275.7	1276.4	1276.7	1276.9	1277.3	1277.6	1276.7
147.5°	1329.7	1331.5	1333.3	1335.0	1336.7	1337.6	1337.6	1337.6	1337.6	1337.6	1336.7
150°	1367.2	1368.9	1370.6	1372.3	1374.1	1374.9	1374.9	1374.9	1374.9	1374.9	1374.3
152.5°	1403.5	1405.0	1406.5	1408.0	1409.5	1410.1	1409.5	1409.1	1408.7	1408.2	1407.8
155°	1452.9	1454.8	1456.9	1458.9	1460.9	1461.4	1460.2	1459.1	1457.9	1456.7	1456.5
157.5°	1497.8	1499.3	1501.0	1502.6	1504.3	1504.4	1503.2	1502.0	1500.8	1499.6	1499.3
160°	1526.8	1528.0	1529.1	1530.3	1531.5	1531.3	1529.9	1528.4	1527.0	1525.5	1525.5
162.5°	1548.7	1550.5	1552.4	1554.2	1556.1	1556.3	1554.8	1553.3	1552.0	1550.5	1550.2
165°	1580.1	1582.1	1584.2	1586.1	1588.2	1588.3	1586.6	1584.8	1583.1	1581.4	1581.4
167.5°	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9	1612.2	1610.4	1608.6	1606.8	1606.6
170°	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4	1626.4	1624.4	1622.4	1620.3	1620.3
172.5°	1630.7	1632.7	1634.8	1636.8	1638.8	1638.9	1637.1	1635.3	1633.6	1631.8	1631.8
175°	1642.4	1644.4	1646.4	1648.5	1650.5	1650.6	1648.9	1647.2	1645.5	1643.7	1643.7
177.5°	1648.6	1650.3	1651.8	1653.5	1655.1	1655.2	1653.8	1652.4	1651.1	1649.7	1649.7
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	795.4	794.6	790.9	786.7	781.2	777.5	774.6	773.0	768.3	762.4	758.5
5°	844.6	834.7	824.1	811.2	799.4	787.2	779.6	770.7	759.8	747.6	739.0
7.5°	897.2	877.8	856.9	835.3	814.0	794.9	778.0	763.5	746.2	728.8	716.4
10°	937.5	909.2	879.9	849.8	822.4	796.8	777.0	757.5	736.8	716.6	701.5
12.5°	974.2	936.9	903.1	866.2	831.2	800.5	772.0	749.1	724.1	702.7	685.4
15°	1020.6	982.4	941.5	885.5	839.0	800.0	765.4	735.4	705.1	678.7	661.9
17.5°	1064.0	1006.5	951.6	904.7	844.4	795.7	753.5	717.6	684.3	656.3	635.6
20°	1082.0	1026.3	966.6	906.9	847.6	793.2	744.0	704.4	669.8	638.1	619.0
22.5°	1092.8	1029.7	966.8	902.7	839.6	783.1	734.5	691.0	653.4	623.4	599.8
25°	1105.4	1030.2	961.0	897.7	833.4	772.0	714.3	668.1	627.6	595.6	570.5
27.5°	1113.7	1025.3	943.4	873.1	807.8	746.7	693.9	644.9	603.7	569.9	543.0
30°	1115.3	1021.3	930.0	853.8	787.5	731.4	675.4	628.5	585.0	549.1	524.0
32.5°	1117.4	1011.6	911.8	830.9	763.0	707.5	656.7	611.9	567.3	531.9	506.4
35°	1108.7	1006.2	884.2	791.2	723.2	669.4	623.6	582.4	538.6	504.2	478.2
37.5°	1071.3	984.7	855.5	746.4	675.4	625.6	588.2	552.3	512.1	475.1	450.6
40°	1033.5	963.6	833.4	719.3	645.1	593.9	560.3	531.0	492.1	457.4	431.0
42.5°	977.3	934.9	812.3	690.8	610.7	561.5	533.1	505.6	471.5	436.3	411.5
45°	874.3	879.9	769.0	645.4	563.3	513.8	487.1	468.0	437.6	408.6	383.2
47.5°	744.9	797.4	718.3	597.0	513.2	466.7	443.4	426.7	406.3	377.8	354.6
50°	660.6	735.4	677.7	564.6	481.8	435.7	412.6	399.1	381.3	358.8	336.7
52.5°	582.7	663.1	628.6	528.4	447.8	405.5	383.0	371.9	357.7	336.7	316.7
55°	475.2	556.6	548.7	473.9	396.7	358.8	341.6	329.2	319.5	303.8	287.9
57.5°	384.4	461.6	465.7	413.2	351.7	314.3	299.5	290.1	283.8	271.9	257.3
60°	327.2	398.0	411.9	372.3	319.5	286.5	272.1	264.5	259.5	249.9	238.8
62.5°	279.7	340.0	355.7	327.2	288.7	257.8	246.5	239.2	235.8	227.6	217.7
65°	214.0	264.2	279.3	263.5	243.4	218.6	209.4	203.1	200.2	195.5	188.3
67.5°	160.9	197.5	214.1	202.9	195.7	180.0	174.2	170.8	168.2	165.1	158.9
70°	129.2	156.4	173.5	170.5	164.5	156.4	152.1	149.7	147.1	144.5	139.1
72.5°	103.9	122.5	138.6	140.2	135.3	133.6	129.8	128.9	127.3	124.2	121.2
75°	69.0	81.8	93.0	97.3	99.3	100.9	99.3	98.9	98.6	96.0	94.3
77.5°	45.2	52.1	59.2	66.5	69.6	71.8	72.3	73.5	72.7	71.3	70.5
80°	34.6	36.2	41.2	47.5	52.4	54.4	55.7	56.4	56.1	55.7	54.4
82.5°	25.1	26.5	28.8	33.2	37.4	40.7	41.5	41.3	42.1	42.3	41.2
85°	13.5	13.9	14.6	15.2	17.5	21.1	22.1	22.7	23.4	23.4	21.4
87.5°	9.0	7.9	7.7	7.1	7.2	7.0	7.9	8.7	9.6	9.0	9.6
90°	23.7	19.9	16.2	12.8	10.0	7.1	4.2	1.3	4.2	7.1	10.0
92.5°	45.5	43.5	41.3	39.3	37.3	35.3	33.4	31.4	33.4	35.3	37.3
95°	91.4	89.1	86.9	84.7	82.7	80.7	78.6	76.6	78.6	80.7	82.7
97.5°	147.0	145.3	143.6	142.1	140.6	139.1	137.6	136.0	137.6	139.1	140.6
100°	188.0	186.5	185.1	183.5	181.8	180.0	178.3	176.6	178.3	180.0	181.8
102.5°	232.7	230.8	228.9	227.5	226.4	225.4	224.4	223.3	224.4	225.4	226.4
105°	301.2	298.6	296.0	294.5	293.9	293.3	292.7	292.1	292.7	293.3	293.9
107.5°	376.3	375.2	374.2	373.5	373.2	372.8	372.5	372.1	372.5	372.8	373.2
110°	426.0	425.4	424.8	424.3	423.7	423.1	422.6	422.0	422.6	423.1	423.7



TEST NUMBER: P332427-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	475.7	475.6	475.5	475.3	474.9	474.6	474.2	473.9	474.2	474.6	474.9
115°	554.2	554.8	555.4	555.3	554.4	553.5	552.7	551.8	552.7	553.5	554.4
117.5°	630.9	631.7	632.4	632.5	632.0	631.4	630.8	630.3	630.8	631.4	632.0
120°	683.2	684.7	686.1	686.0	684.2	682.5	680.8	679.1	680.8	682.5	684.2
122.5°	733.7	734.5	735.3	735.0	733.7	732.5	731.2	730.0	731.2	732.5	733.7
125°	810.0	810.6	811.1	811.1	810.2	809.3	808.4	807.5	808.4	809.3	810.2
127.5°	886.0	886.6	887.3	886.7	884.8	883.0	881.1	879.3	881.1	883.0	884.8
130°	935.2	936.1	936.9	936.3	933.9	931.6	929.4	927.0	929.4	931.6	933.9
132.5°	983.6	984.2	984.9	984.0	981.7	979.4	977.1	974.8	977.1	979.4	981.7
135°	1054.8	1055.2	1055.4	1054.7	1052.9	1051.2	1049.5	1047.8	1049.5	1051.2	1052.9
137.5°	1123.6	1122.9	1122.1	1121.0	1119.6	1118.2	1116.7	1115.3	1116.7	1118.2	1119.6
140°	1169.2	1169.0	1168.6	1167.8	1166.3	1164.9	1163.5	1162.0	1163.5	1164.9	1166.3
142.5°	1212.4	1211.9	1211.3	1210.4	1208.9	1207.5	1206.0	1204.6	1206.0	1207.5	1208.9
145°	1275.8	1275.0	1274.1	1273.4	1272.8	1272.2	1271.7	1271.1	1271.7	1272.2	1272.8
147.5°	1335.9	1335.2	1334.3	1333.4	1332.4	1331.3	1330.2	1329.2	1330.2	1331.3	1332.4
150°	1373.8	1373.2	1372.6	1372.1	1371.5	1370.9	1370.4	1369.8	1370.4	1370.9	1371.5
152.5°	1407.5	1407.1	1406.8	1406.2	1405.4	1404.6	1403.8	1403.0	1403.8	1404.6	1405.4
155°	1456.1	1455.9	1455.6	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4
157.5°	1499.1	1498.9	1498.7	1498.7	1499.1	1499.4	1499.8	1500.1	1499.8	1499.4	1499.1
160°	1525.5	1525.5	1525.5	1525.9	1526.4	1527.0	1527.6	1528.2	1527.6	1527.0	1526.4
162.5°	1550.1	1549.8	1549.5	1549.9	1550.7	1551.4	1552.3	1553.1	1552.3	1551.4	1550.7
165°	1581.4	1581.4	1581.4	1581.8	1582.7	1583.6	1584.4	1585.3	1584.4	1583.6	1582.7
167.5°	1606.4	1606.1	1605.9	1606.4	1607.5	1608.7	1609.8	1611.0	1609.8	1608.7	1607.5
170°	1620.3	1620.3	1620.3	1620.9	1622.0	1623.2	1624.4	1625.5	1624.4	1623.2	1622.0
172.5°	1631.8	1631.8	1631.8	1632.4	1633.5	1634.6	1635.8	1636.9	1635.8	1634.6	1633.5
175°	1643.7	1643.7	1643.7	1644.3	1645.5	1646.6	1647.8	1648.9	1647.8	1646.6	1645.5
177.5°	1649.7	1649.7	1649.7	1650.1	1651.1	1652.0	1652.9	1653.8	1652.9	1652.0	1651.1
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	757.2	753.7	751.4	746.1	742.7	739.0	735.3	737.6	737.4	737.1	737.1
5°	731.8	724.2	717.3	708.3	702.7	695.9	690.5	689.9	691.2	686.6	684.0
7.5°	706.6	696.2	686.4	676.6	666.2	657.8	652.6	650.2	646.9	644.0	641.0
10°	688.9	676.7	667.1	655.0	643.8	633.9	627.6	623.3	621.0	618.6	614.4
12.5°	670.7	658.8	646.5	632.7	622.1	610.6	606.0	601.2	596.7	594.1	588.2
15°	644.0	628.5	615.7	601.2	589.4	578.1	571.5	562.0	560.6	557.3	551.4
17.5°	617.3	600.5	582.8	572.0	558.6	547.0	536.9	533.7	524.3	520.7	515.6
20°	596.2	580.7	567.2	553.0	533.6	522.7	514.8	510.5	502.9	498.3	495.0
22.5°	578.1	562.2	546.6	530.1	514.0	501.9	496.0	489.4	485.3	478.8	475.2
25°	552.1	534.9	516.1	498.3	486.7	477.5	468.3	462.4	456.4	453.4	446.9
27.5°	521.9	503.9	486.4	472.9	458.7	449.5	441.2	435.9	428.8	423.8	420.2
30°	505.2	484.1	469.0	456.8	438.6	430.1	423.8	417.2	411.9	406.7	402.9
32.5°	485.9	466.7	452.3	437.2	423.3	414.0	405.8	400.0	395.5	390.5	386.9
35°	455.7	439.6	424.7	409.6	399.3	389.8	380.2	375.3	371.0	366.4	363.1
37.5°	428.4	413.4	399.2	384.9	372.2	364.4	356.7	352.9	347.2	344.1	340.7
40°	411.6	396.7	381.6	367.7	354.5	348.6	341.6	336.0	330.8	328.5	324.9
42.5°	393.1	378.2	365.5	350.5	339.8	331.7	325.3	319.2	315.2	311.9	309.8
45°	365.8	352.5	340.0	325.2	315.0	308.0	300.7	295.2	291.5	289.2	285.6
47.5°	339.1	326.0	313.2	300.3	290.4	282.5	275.3	271.3	266.6	263.7	261.2
50°	319.9	308.0	294.5	282.6	272.8	264.8	258.9	253.9	249.6	246.0	244.4
52.5°	302.2	289.6	277.8	266.8	256.4	247.4	242.0	236.8	233.6	229.4	227.5
55°	273.0	260.9	251.0	240.0	229.9	222.3	215.7	211.0	207.8	203.1	200.5
57.5°	245.6	234.7	222.9	213.5	202.9	196.6	191.1	184.8	180.8	177.2	174.6
60°	227.2	214.6	204.5	195.5	186.3	178.1	173.1	168.2	163.9	160.2	158.0
62.5°	207.9	197.0	187.4	177.6	169.2	162.0	156.3	152.1	148.4	146.0	143.7
65°	178.4	169.9	160.0	152.1	144.1	138.9	134.2	130.6	127.9	126.3	124.3
67.5°	151.3	142.9	134.3	126.5	121.2	117.2	114.2	111.1	109.8	107.6	106.3
70°	133.5	125.0	117.4	111.5	106.2	103.2	101.3	98.9	97.6	95.0	93.7
72.5°	114.3	108.1	102.6	97.7	93.5	90.8	88.3	85.5	83.3	80.5	79.1
75°	90.1	84.5	80.2	76.8	74.2	70.6	67.0	64.0	63.0	62.0	61.6
77.5°	66.6	63.1	60.0	57.3	54.0	51.3	50.5	49.9	49.7	49.2	49.2
80°	52.4	49.2	46.8	43.6	41.6	41.6	41.6	40.9	41.2	41.2	41.2
82.5°	39.0	35.9	34.7	33.5	33.1	33.4	33.4	33.5	33.3	33.8	33.6
85°	20.1	20.4	21.1	20.8	21.1	21.1	21.8	21.4	21.8	21.1	21.8
87.5°	10.0	11.5	12.4	13.4	14.5	14.9	15.4	15.7	16.2	16.4	16.5
90°	12.8	16.2	19.9	23.7	27.4	31.2	32.3	33.5	34.6	35.8	36.7
92.5°	39.3	41.3	43.5	45.5	47.7	49.9	50.8	51.7	52.6	53.6	53.8
95°	84.7	86.9	89.1	91.4	93.8	96.1	97.2	98.4	99.5	100.7	101.3
97.5°	142.1	143.6	145.3	147.0	148.7	150.3	151.7	153.0	154.3	155.7	156.3
100°	183.5	185.1	186.5	188.0	189.4	190.9	191.7	192.6	193.5	194.3	195.0
102.5°	227.5	228.9	230.8	232.7	234.6	236.5	237.5	238.3	239.2	240.0	240.4
105°	294.5	296.0	298.6	301.2	303.8	306.4	306.4	306.4	306.4	306.4	306.7
107.5°	373.5	374.2	375.2	376.3	377.3	378.3	379.3	380.2	381.1	382.0	382.3
110°	424.3	424.8	425.4	426.0	426.5	427.1	428.3	429.5	430.6	431.8	432.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	475.3	475.5	475.6	475.7	475.9	476.0	477.3	478.7	480.1	481.5	482.2
115°	555.3	555.4	554.8	554.2	553.7	553.1	553.4	553.7	554.0	554.2	554.2
117.5°	632.5	632.4	631.7	630.9	630.2	629.5	629.4	629.3	629.3	629.2	628.8
120°	686.0	686.1	684.7	683.2	681.7	680.4	680.0	679.8	679.5	679.2	678.7
122.5°	735.0	735.3	734.5	733.7	733.1	732.3	731.5	730.7	730.0	729.3	728.5
125°	811.1	811.1	810.6	810.0	809.4	808.9	807.7	806.6	805.4	804.3	803.1
127.5°	886.7	887.3	886.6	886.0	885.4	884.7	883.0	881.5	879.9	878.2	876.8
130°	936.3	936.9	936.1	935.2	934.4	933.5	932.4	931.2	930.1	928.9	927.3
132.5°	984.0	984.9	984.2	983.6	982.9	982.3	980.9	979.6	978.2	976.8	975.3
135°	1054.7	1055.4	1055.2	1054.8	1054.6	1054.3	1053.1	1052.0	1050.8	1049.6	1048.8
137.5°	1121.0	1122.1	1122.9	1123.6	1124.4	1125.2	1123.9	1122.7	1121.5	1120.3	1119.1
140°	1167.8	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5	1169.2	1169.0	1168.6	1167.5
142.5°	1210.4	1211.3	1211.9	1212.4	1212.9	1213.4	1213.1	1212.9	1212.5	1212.3	1211.3
145°	1273.4	1274.1	1275.0	1275.8	1276.7	1277.6	1277.3	1276.9	1276.7	1276.4	1275.7
147.5°	1333.4	1334.3	1335.2	1335.9	1336.7	1337.6	1337.6	1337.6	1337.6	1337.6	1336.7
150°	1372.1	1372.6	1373.2	1373.8	1374.3	1374.9	1374.9	1374.9	1374.9	1374.9	1374.1
152.5°	1406.2	1406.8	1407.1	1407.5	1407.8	1408.2	1408.7	1409.1	1409.5	1410.1	1409.5
155°	1455.4	1455.6	1455.9	1456.1	1456.5	1456.7	1457.9	1459.1	1460.2	1461.4	1460.9
157.5°	1498.7	1498.7	1498.9	1499.1	1499.3	1499.6	1500.8	1502.0	1503.2	1504.4	1504.3
160°	1525.9	1525.5	1525.5	1525.5	1525.5	1525.5	1527.0	1528.4	1529.9	1531.3	1531.5
162.5°	1549.9	1549.5	1549.8	1550.1	1550.2	1550.5	1552.0	1553.3	1554.8	1556.3	1556.1
165°	1581.8	1581.4	1581.4	1581.4	1581.4	1581.4	1583.1	1584.8	1586.6	1588.3	1588.2
167.5°	1606.4	1605.9	1606.1	1606.4	1606.6	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9
170°	1620.9	1620.3	1620.3	1620.3	1620.3	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4
172.5°	1632.4	1631.8	1631.8	1631.8	1631.8	1631.8	1633.6	1635.3	1637.1	1638.9	1638.8
175°	1644.3	1643.7	1643.7	1643.7	1643.7	1643.7	1645.5	1647.2	1648.9	1650.6	1650.5
177.5°	1650.1	1649.7	1649.7	1649.7	1649.7	1649.7	1651.1	1652.4	1653.8	1655.2	1655.1
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	733.9	733.7	733.9	732.9	733.9	733.7	733.9	737.1	737.1	737.4	737.6
5°	682.9	682.6	681.7	678.7	681.7	682.6	682.9	684.0	686.6	691.2	689.9
7.5°	638.4	638.0	635.1	635.2	635.1	638.0	638.4	641.0	644.0	646.9	650.2
10°	612.1	612.4	608.5	606.1	608.5	612.4	612.1	614.4	618.6	621.0	623.3
12.5°	586.5	585.0	581.8	579.2	581.8	585.0	586.5	588.2	594.1	596.7	601.2
15°	552.7	549.4	541.5	542.2	541.5	549.4	552.7	551.4	557.3	560.6	562.0
17.5°	512.9	510.5	510.4	505.8	510.4	510.5	512.9	515.6	520.7	524.3	533.7
20°	489.7	488.1	488.7	484.1	488.7	488.1	489.7	495.0	498.3	502.9	510.5
22.5°	471.5	469.8	467.1	465.6	467.1	469.8	471.5	475.2	478.8	485.3	489.4
25°	444.9	442.2	439.6	441.3	439.6	442.2	444.9	446.9	453.4	456.4	462.4
27.5°	418.2	416.2	413.6	413.3	413.6	416.2	418.2	420.2	423.8	428.8	435.9
30°	401.3	399.3	398.0	396.4	398.0	399.3	401.3	402.9	406.7	411.9	417.2
32.5°	384.2	383.8	381.4	381.1	381.4	383.8	384.2	386.9	390.5	395.5	400.0
35°	361.8	359.8	359.1	359.5	359.1	359.8	361.8	363.1	366.4	371.0	375.3
37.5°	340.4	337.9	336.7	335.4	336.7	337.9	340.4	340.7	344.1	347.2	352.9
40°	325.2	322.5	321.8	321.2	321.8	322.5	325.2	324.9	328.5	330.8	336.0
42.5°	308.0	306.9	306.6	305.4	306.6	306.9	308.0	309.8	311.9	315.2	319.2
45°	284.6	284.3	282.3	282.9	282.3	284.3	284.6	285.6	289.2	291.5	295.2
47.5°	259.9	258.5	257.1	258.0	257.1	258.5	259.9	261.2	263.7	266.6	271.3
50°	243.1	242.4	239.4	240.0	239.4	242.4	243.1	244.4	246.0	249.6	253.9
52.5°	226.2	223.7	222.6	222.1	222.6	223.7	226.2	227.5	229.4	233.6	236.8
55°	198.2	195.2	193.9	193.2	193.9	195.2	198.2	200.5	203.1	207.8	211.0
57.5°	170.7	170.0	168.9	169.6	168.9	170.0	170.7	174.6	177.2	180.8	184.8
60°	154.6	154.6	154.6	154.4	154.6	154.6	154.6	158.0	160.2	163.9	168.2
62.5°	142.2	141.5	141.2	141.6	141.2	141.5	142.2	143.7	146.0	148.4	152.1
65°	123.3	123.0	121.7	121.4	121.7	123.0	123.3	124.3	126.3	127.9	130.6
67.5°	105.5	104.3	103.9	103.4	103.9	104.3	105.5	106.3	107.6	109.8	111.1
70°	92.0	91.4	89.4	89.7	89.4	91.4	92.0	93.7	95.0	97.6	98.9
72.5°	77.5	76.8	76.5	75.9	76.5	76.8	77.5	79.1	80.5	83.3	85.5
75°	61.3	61.0	60.7	62.0	60.7	61.0	61.3	61.6	62.0	63.0	64.0
77.5°	49.2	49.2	49.3	48.8	49.3	49.2	49.2	49.2	49.2	49.7	49.9
80°	41.2	41.2	40.9	40.9	40.9	41.2	41.2	41.2	41.2	41.2	40.9
82.5°	33.1	33.3	33.5	33.0	33.5	33.3	33.1	33.6	33.8	33.3	33.5
85°	21.8	21.4	22.1	21.8	22.1	21.4	21.8	21.8	21.1	21.8	21.4
87.5°	17.2	16.8	16.9	17.3	16.9	16.8	17.2	16.5	16.4	16.2	15.7
90°	37.2	37.8	38.4	38.9	38.4	37.8	37.2	36.7	35.8	34.6	33.5
92.5°	53.5	53.1	52.8	52.4	52.8	53.1	53.5	53.8	53.6	52.6	51.7
95°	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	100.7	99.5	98.4
97.5°	156.2	156.0	155.9	155.8	155.9	156.0	156.2	156.3	155.7	154.3	153.0
100°	195.6	196.2	196.7	197.3	196.7	196.2	195.6	195.0	194.3	193.5	192.6
102.5°	240.3	240.1	240.0	240.0	240.0	240.1	240.3	240.4	240.0	239.2	238.3
105°	307.3	307.9	308.4	309.0	308.4	307.9	307.3	306.7	306.4	306.4	306.4
107.5°	381.9	381.6	381.3	380.9	381.3	381.6	381.9	382.3	382.0	381.1	380.2
110°	431.4	430.9	430.3	429.7	430.3	430.9	431.4	432.0	431.8	430.6	429.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	482.1	481.9	481.8	481.6	481.8	481.9	482.1	482.2	481.5	480.1	478.7
115°	554.0	553.7	553.4	553.1	553.4	553.7	554.0	554.2	554.2	554.0	553.7
117.5°	627.9	627.2	626.4	625.5	626.4	627.2	627.9	628.8	629.2	629.3	629.3
120°	678.2	677.6	677.0	676.4	677.0	677.6	678.2	678.7	679.2	679.5	679.8
122.5°	727.7	726.9	726.1	725.2	726.1	726.9	727.7	728.5	729.3	730.0	730.7
125°	801.9	800.8	799.6	798.5	799.6	800.8	801.9	803.1	804.3	805.4	806.6
127.5°	875.5	874.1	872.8	871.4	872.8	874.1	875.5	876.8	878.2	879.9	881.5
130°	925.3	923.3	921.3	919.2	921.3	923.3	925.3	927.3	928.9	930.1	931.2
132.5°	973.8	972.2	970.6	969.1	970.6	972.2	973.8	975.3	976.8	978.2	979.6
135°	1048.2	1047.6	1047.1	1046.5	1047.1	1047.6	1048.2	1048.8	1049.6	1050.8	1052.0
137.5°	1118.0	1117.0	1115.9	1114.7	1115.9	1117.0	1118.0	1119.1	1120.3	1121.5	1122.7
140°	1165.4	1163.5	1161.4	1159.4	1161.4	1163.5	1165.4	1167.5	1168.6	1169.0	1169.2
142.5°	1209.8	1208.2	1206.7	1205.1	1206.7	1208.2	1209.8	1211.3	1212.3	1212.5	1212.9
145°	1274.5	1273.4	1272.2	1271.1	1272.2	1273.4	1274.5	1275.7	1276.4	1276.7	1276.9
147.5°	1335.0	1333.3	1331.5	1329.7	1331.5	1333.3	1335.0	1336.7	1337.6	1337.6	1337.6
150°	1372.3	1370.6	1368.9	1367.2	1368.9	1370.6	1372.3	1374.1	1374.9	1374.9	1374.9
152.5°	1408.0	1406.5	1405.0	1403.5	1405.0	1406.5	1408.0	1409.5	1410.1	1409.5	1409.1
155°	1458.9	1456.9	1454.8	1452.9	1454.8	1456.9	1458.9	1460.9	1461.4	1460.2	1459.1
157.5°	1502.6	1501.0	1499.3	1497.8	1499.3	1501.0	1502.6	1504.3	1504.4	1503.2	1502.0
160°	1530.3	1529.1	1528.0	1526.8	1528.0	1529.1	1530.3	1531.5	1531.3	1529.9	1528.4
162.5°	1554.2	1552.4	1550.5	1548.7	1550.5	1552.4	1554.2	1556.1	1556.3	1554.8	1553.3
165°	1586.1	1584.2	1582.1	1580.1	1582.1	1584.2	1586.1	1588.2	1588.3	1586.6	1584.8
167.5°	1612.2	1610.4	1608.6	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9	1612.2	1610.4
170°	1626.4	1624.4	1622.4	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4	1626.4	1624.4
172.5°	1636.8	1634.8	1632.7	1630.7	1632.7	1634.8	1636.8	1638.8	1638.9	1637.1	1635.3
175°	1648.5	1646.4	1644.4	1642.4	1644.4	1646.4	1648.5	1650.5	1650.6	1648.9	1647.2
177.5°	1653.5	1651.8	1650.3	1648.6	1650.3	1651.8	1653.5	1655.1	1655.2	1653.8	1652.4
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	735.3	739.0	742.7	746.1	751.4	753.7	757.2	758.5	762.4	768.3	773.0
5°	690.5	695.9	702.7	708.3	717.3	724.2	731.8	739.0	747.6	759.8	770.7
7.5°	652.6	657.8	666.2	676.6	686.4	696.2	706.6	716.4	728.8	746.2	763.5
10°	627.6	633.9	643.8	655.0	667.1	676.7	688.9	701.5	716.6	736.8	757.5
12.5°	606.0	610.6	622.1	632.7	646.5	658.8	670.7	685.4	702.7	724.1	749.1
15°	571.5	578.1	589.4	601.2	615.7	628.5	644.0	661.9	678.7	705.1	735.4
17.5°	536.9	547.0	558.6	572.0	582.8	600.5	617.3	635.6	656.3	684.3	717.6
20°	514.8	522.7	533.6	553.0	567.2	580.7	596.2	619.0	638.1	669.8	704.4
22.5°	496.0	501.9	514.0	530.1	546.6	562.2	578.1	599.8	623.4	653.4	691.0
25°	468.3	477.5	486.7	498.3	516.1	534.9	552.1	570.5	595.6	627.6	668.1
27.5°	441.2	449.5	458.7	472.9	486.4	503.9	521.9	543.0	569.9	603.7	644.9
30°	423.8	430.1	438.6	456.8	469.0	484.1	505.2	524.0	549.1	585.0	628.5
32.5°	405.8	414.0	423.3	437.2	452.3	466.7	485.9	506.4	531.9	567.3	611.9
35°	380.2	389.8	399.3	409.6	424.7	439.6	455.7	478.2	504.2	538.6	582.4
37.5°	356.7	364.4	372.2	384.9	399.2	413.4	428.4	450.6	475.1	512.1	552.3
40°	341.6	348.6	354.5	367.7	381.6	396.7	411.6	431.0	457.4	492.1	531.0
42.5°	325.3	331.7	339.8	350.5	365.5	378.2	393.1	411.5	436.3	471.5	505.6
45°	300.7	308.0	315.0	325.2	340.0	352.5	365.8	383.2	408.6	437.6	468.0
47.5°	275.3	282.5	290.4	300.3	313.2	326.0	339.1	354.6	377.8	406.3	426.7
50°	258.9	264.8	272.8	282.6	294.5	308.0	319.9	336.7	358.8	381.3	399.1
52.5°	242.0	247.4	256.4	266.8	277.8	289.6	302.2	316.7	336.7	357.7	371.9
55°	215.7	222.3	229.9	240.0	251.0	260.9	273.0	287.9	303.8	319.5	329.2
57.5°	191.1	196.6	202.9	213.5	222.9	234.7	245.6	257.3	271.9	283.8	290.1
60°	173.1	178.1	186.3	195.5	204.5	214.6	227.2	238.8	249.9	259.5	264.5
62.5°	156.3	162.0	169.2	177.6	187.4	197.0	207.9	217.7	227.6	235.8	239.2
65°	134.2	138.9	144.1	152.1	160.0	169.9	178.4	188.3	195.5	200.2	203.1
67.5°	114.2	117.2	121.2	126.5	134.3	142.9	151.3	158.9	165.1	168.2	170.8
70°	101.3	103.2	106.2	111.5	117.4	125.0	133.5	139.1	144.5	147.1	149.7
72.5°	88.3	90.8	93.5	97.7	102.6	108.1	114.3	121.2	124.2	127.3	128.9
75°	67.0	70.6	74.2	76.8	80.2	84.5	90.1	94.3	96.0	98.6	98.9
77.5°	50.5	51.3	54.0	57.3	60.0	63.1	66.6	70.5	71.3	72.7	73.5
80°	41.6	41.6	41.6	43.6	46.8	49.2	52.4	54.4	55.7	56.1	56.4
82.5°	33.4	33.4	33.1	33.5	34.7	35.9	39.0	41.2	42.3	42.1	41.3
85°	21.8	21.1	21.1	20.8	21.1	20.4	20.1	21.4	23.4	23.4	22.7
87.5°	15.4	14.9	14.5	13.4	12.4	11.5	10.0	9.6	9.0	9.6	8.7
90°	32.3	31.2	27.4	23.7	19.9	16.2	12.8	10.0	7.1	4.2	1.3
92.5°	50.8	49.9	47.7	45.5	43.5	41.3	39.3	37.3	35.3	33.4	31.4
95°	97.2	96.1	93.8	91.4	89.1	86.9	84.7	82.7	80.7	78.6	76.6
97.5°	151.7	150.3	148.7	147.0	145.3	143.6	142.1	140.6	139.1	137.6	136.0
100°	191.7	190.9	189.4	188.0	186.5	185.1	183.5	181.8	180.0	178.3	176.6
102.5°	237.5	236.5	234.6	232.7	230.8	228.9	227.5	226.4	225.4	224.4	223.3
105°	306.4	306.4	303.8	301.2	298.6	296.0	294.5	293.9	293.3	292.7	292.1
107.5°	379.3	378.3	377.3	376.3	375.2	374.2	373.5	373.2	372.8	372.5	372.1
110°	428.3	427.1	426.5	426.0	425.4	424.8	424.3	423.7	423.1	422.6	422.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	477.3	476.0	475.9	475.7	475.6	475.5	475.3	474.9	474.6	474.2	473.9
115°	553.4	553.1	553.7	554.2	554.8	555.4	555.3	554.4	553.5	552.7	551.8
117.5°	629.4	629.5	630.2	630.9	631.7	632.4	632.5	632.0	631.4	630.8	630.3
120°	680.0	680.4	681.7	683.2	684.7	686.1	686.0	684.2	682.5	680.8	679.1
122.5°	731.5	732.3	733.1	733.7	734.5	735.3	735.0	733.7	732.5	731.2	730.0
125°	807.7	808.9	809.4	810.0	810.6	811.1	811.1	810.2	809.3	808.4	807.5
127.5°	883.0	884.7	885.4	886.0	886.6	887.3	886.7	884.8	883.0	881.1	879.3
130°	932.4	933.5	934.4	935.2	936.1	936.9	936.3	933.9	931.6	929.4	927.0
132.5°	980.9	982.3	982.9	983.6	984.2	984.9	984.0	981.7	979.4	977.1	974.8
135°	1053.1	1054.3	1054.6	1054.8	1055.2	1055.4	1054.7	1052.9	1051.2	1049.5	1047.8
137.5°	1123.9	1125.2	1124.4	1123.6	1122.9	1122.1	1121.0	1119.6	1118.2	1116.7	1115.3
140°	1169.5	1169.8	1169.5	1169.2	1169.0	1168.6	1167.8	1166.3	1164.9	1163.5	1162.0
142.5°	1213.1	1213.4	1212.9	1212.4	1211.9	1211.3	1210.4	1208.9	1207.5	1206.0	1204.6
145°	1277.3	1277.6	1276.7	1275.8	1275.0	1274.1	1273.4	1272.8	1272.2	1271.7	1271.1
147.5°	1337.6	1337.6	1336.7	1335.9	1335.2	1334.3	1333.4	1332.4	1331.3	1330.2	1329.2
150°	1374.9	1374.9	1374.3	1373.8	1373.2	1372.6	1372.1	1371.5	1370.9	1370.4	1369.8
152.5°	1408.7	1408.2	1407.8	1407.5	1407.1	1406.8	1406.2	1405.4	1404.6	1403.8	1403.0
155°	1457.9	1456.7	1456.5	1456.1	1455.9	1455.6	1455.4	1455.4	1455.4	1455.4	1455.4
157.5°	1500.8	1499.6	1499.3	1499.1	1498.9	1498.7	1498.7	1499.1	1499.4	1499.8	1500.1
160°	1527.0	1525.5	1525.5	1525.5	1525.5	1525.5	1525.9	1526.4	1527.0	1527.6	1528.2
162.5°	1552.0	1550.5	1550.2	1550.1	1549.8	1549.5	1549.9	1550.7	1551.4	1552.3	1553.1
165°	1583.1	1581.4	1581.4	1581.4	1581.4	1581.4	1581.8	1582.7	1583.6	1584.4	1585.3
167.5°	1608.6	1606.8	1606.6	1606.4	1606.1	1605.9	1606.4	1607.5	1608.7	1609.8	1611.0
170°	1622.4	1620.3	1620.3	1620.3	1620.3	1620.3	1620.9	1622.0	1623.2	1624.4	1625.5
172.5°	1633.6	1631.8	1631.8	1631.8	1631.8	1631.8	1632.4	1633.5	1634.6	1635.8	1636.9
175°	1645.5	1643.7	1643.7	1643.7	1643.7	1643.7	1644.3	1645.5	1646.6	1647.8	1648.9
177.5°	1651.1	1649.7	1649.7	1649.7	1649.7	1649.7	1650.1	1651.1	1652.0	1652.9	1653.8
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	774.6	777.5	781.2	786.7	790.9	794.6	795.4	796.5	799.1	803.6	807.0
5°	779.6	787.2	799.4	811.2	824.1	834.7	844.6	851.5	858.1	871.9	883.1
7.5°	778.0	794.9	814.0	835.3	856.9	877.8	897.2	914.6	931.9	952.0	975.0
10°	777.0	796.8	822.4	849.8	879.9	909.2	937.5	959.7	985.4	1008.5	1037.8
12.5°	772.0	800.5	831.2	866.2	903.1	936.9	974.2	1004.8	1034.1	1067.6	1101.6
15°	765.4	800.0	839.0	885.5	941.5	982.4	1020.6	1073.8	1110.0	1146.3	1195.2
17.5°	753.5	795.7	844.4	904.7	951.6	1006.5	1064.0	1106.0	1154.9	1206.0	1250.2
20°	744.0	793.2	847.6	906.9	966.6	1026.3	1082.0	1132.1	1182.6	1241.6	1277.9
22.5°	734.5	783.1	839.6	902.7	966.8	1029.7	1092.8	1151.7	1208.4	1268.0	1314.3
25°	714.3	772.0	833.4	897.7	961.0	1030.2	1105.4	1171.0	1241.3	1302.6	1346.5
27.5°	693.9	746.7	807.8	873.1	943.4	1025.3	1113.7	1188.4	1258.7	1302.6	1316.4
30°	675.4	731.4	787.5	853.8	930.0	1021.3	1115.3	1200.8	1258.4	1277.6	1263.3
32.5°	656.7	707.5	763.0	830.9	911.8	1011.6	1117.4	1193.3	1228.1	1213.5	1155.7
35°	623.6	669.4	723.2	791.2	884.2	1006.2	1108.7	1160.2	1151.6	1069.1	960.3
37.5°	588.2	625.6	675.4	746.4	855.5	984.7	1071.3	1078.8	1004.6	878.0	752.3
40°	560.3	593.9	645.1	719.3	833.4	963.6	1033.5	1002.9	887.8	746.9	642.0
42.5°	533.1	561.5	610.7	690.8	812.3	934.9	977.3	910.5	777.7	644.5	549.2
45°	487.1	513.8	563.3	645.4	769.0	879.9	874.3	758.2	625.3	518.1	438.9
47.5°	443.4	466.7	513.2	597.0	718.3	797.4	744.9	621.5	508.7	422.8	366.3
50°	412.6	435.7	481.8	564.6	677.7	735.4	660.6	541.5	438.2	367.0	322.2
52.5°	383.0	405.5	447.8	528.4	628.6	663.1	582.7	472.3	386.3	324.9	286.3
55°	341.6	358.8	396.7	473.9	548.7	556.6	475.2	382.9	311.9	269.1	242.7
57.5°	299.5	314.3	351.7	413.2	465.7	461.6	384.4	304.5	256.8	224.9	205.8
60°	272.1	286.5	319.5	372.3	411.9	398.0	327.2	262.9	222.0	198.5	183.4
62.5°	246.5	257.8	288.7	327.2	355.7	340.0	279.7	226.4	194.0	174.3	162.2
65°	209.4	218.6	243.4	263.5	279.3	264.2	214.0	177.1	153.7	139.8	131.6
67.5°	174.2	180.0	195.7	202.9	214.1	197.5	160.9	136.2	122.9	111.2	105.5
70°	152.1	156.4	164.5	170.5	173.5	156.4	129.2	111.2	100.0	91.7	88.1
72.5°	129.8	133.6	135.3	140.2	138.6	122.5	103.9	89.5	81.5	75.9	71.2
75°	99.3	100.9	99.3	97.3	93.0	81.8	69.0	61.6	55.7	53.1	51.5
77.5°	72.3	71.8	69.6	66.5	59.2	52.1	45.2	42.7	40.2	38.7	38.2
80°	55.7	54.4	52.4	47.5	41.2	36.2	34.6	33.0	32.0	30.3	30.0
82.5°	41.5	40.7	37.4	33.2	28.8	26.5	25.1	24.5	23.5	22.7	22.6
85°	22.1	21.1	17.5	15.2	14.6	13.9	13.5	13.5	12.2	11.9	11.9
87.5°	7.9	7.0	7.2	7.1	7.7	7.9	9.0	9.2	9.6	10.2	9.9
90°	4.2	7.1	10.0	12.8	16.2	19.9	23.7	27.4	31.2	32.3	33.5
92.5°	33.4	35.3	37.3	39.3	41.3	43.5	45.5	47.7	49.9	50.8	51.7
95°	78.6	80.7	82.7	84.7	86.9	89.1	91.4	93.8	96.1	97.2	98.4
97.5°	137.6	139.1	140.6	142.1	143.6	145.3	147.0	148.7	150.3	151.7	153.0
100°	178.3	180.0	181.8	183.5	185.1	186.5	188.0	189.4	190.9	191.7	192.6
102.5°	224.4	225.4	226.4	227.5	228.9	230.8	232.7	234.6	236.5	237.5	238.3
105°	292.7	293.3	293.9	294.5	296.0	298.6	301.2	303.8	306.4	306.4	306.4
107.5°	372.5	372.8	373.2	373.5	374.2	375.2	376.3	377.3	378.3	379.3	380.2
110°	422.6	423.1	423.7	424.3	424.8	425.4	426.0	426.5	427.1	428.3	429.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	474.2	474.6	474.9	475.3	475.5	475.6	475.7	475.9	476.0	477.3	478.7
115°	552.7	553.5	554.4	555.3	555.4	554.8	554.2	553.7	553.1	553.4	553.7
117.5°	630.8	631.4	632.0	632.5	632.4	631.7	630.9	630.2	629.5	629.4	629.3
120°	680.8	682.5	684.2	686.0	686.1	684.7	683.2	681.7	680.4	680.0	679.8
122.5°	731.2	732.5	733.7	735.0	735.3	734.5	733.7	733.1	732.3	731.5	730.7
125°	808.4	809.3	810.2	811.1	811.1	810.6	810.0	809.4	808.9	807.7	806.6
127.5°	881.1	883.0	884.8	886.7	887.3	886.6	886.0	885.4	884.7	883.0	881.5
130°	929.4	931.6	933.9	936.3	936.9	936.1	935.2	934.4	933.5	932.4	931.2
132.5°	977.1	979.4	981.7	984.0	984.9	984.2	983.6	982.9	982.3	980.9	979.6
135°	1049.5	1051.2	1052.9	1054.7	1055.4	1055.2	1054.8	1054.6	1054.3	1053.1	1052.0
137.5°	1116.7	1118.2	1119.6	1121.0	1122.1	1122.9	1123.6	1124.4	1125.2	1123.9	1122.7
140°	1163.5	1164.9	1166.3	1167.8	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5	1169.2
142.5°	1206.0	1207.5	1208.9	1210.4	1211.3	1211.9	1212.4	1212.9	1213.4	1213.1	1212.9
145°	1271.7	1272.2	1272.8	1273.4	1274.1	1275.0	1275.8	1276.7	1277.6	1277.3	1276.9
147.5°	1330.2	1331.3	1332.4	1333.4	1334.3	1335.2	1335.9	1336.7	1337.6	1337.6	1337.6
150°	1370.4	1370.9	1371.5	1372.1	1372.6	1373.2	1373.8	1374.3	1374.9	1374.9	1374.9
152.5°	1403.8	1404.6	1405.4	1406.2	1406.8	1407.1	1407.5	1407.8	1408.2	1408.7	1409.1
155°	1455.4	1455.4	1455.4	1455.4	1455.6	1455.9	1456.1	1456.5	1456.7	1457.9	1459.1
157.5°	1499.8	1499.4	1499.1	1498.7	1498.7	1498.9	1499.1	1499.3	1499.6	1500.8	1502.0
160°	1527.6	1527.0	1526.4	1525.9	1525.5	1525.5	1525.5	1525.5	1525.5	1527.0	1528.4
162.5°	1552.3	1551.4	1550.7	1549.9	1549.5	1549.8	1550.1	1550.2	1550.5	1552.0	1553.3
165°	1584.4	1583.6	1582.7	1581.8	1581.4	1581.4	1581.4	1581.4	1581.4	1583.1	1584.8
167.5°	1609.8	1608.7	1607.5	1606.4	1605.9	1606.1	1606.4	1606.6	1606.8	1608.6	1610.4
170°	1624.4	1623.2	1622.0	1620.9	1620.3	1620.3	1620.3	1620.3	1620.3	1622.4	1624.4
172.5°	1635.8	1634.6	1633.5	1632.4	1631.8	1631.8	1631.8	1631.8	1631.8	1633.6	1635.3
175°	1647.8	1646.6	1645.5	1644.3	1643.7	1643.7	1643.7	1643.7	1643.7	1645.5	1647.2
177.5°	1652.9	1652.0	1651.1	1650.1	1649.7	1649.7	1649.7	1649.7	1649.7	1651.1	1652.4
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	812.6	812.6	813.6	817.6	818.1	821.6	820.4
5°	893.0	899.3	901.6	911.5	917.5	920.1	914.8
7.5°	991.4	1009.1	1017.5	1027.9	1037.0	1039.8	1032.6
10°	1063.2	1081.7	1097.2	1106.7	1115.7	1121.5	1129.2
12.5°	1132.6	1155.3	1170.0	1183.5	1192.7	1200.2	1201.4
15°	1208.0	1242.3	1268.3	1287.5	1297.0	1302.0	1300.0
17.5°	1284.0	1315.8	1334.4	1353.8	1367.1	1367.8	1368.2
20°	1327.1	1358.1	1379.5	1394.0	1408.9	1408.2	1411.4
22.5°	1355.8	1380.2	1396.6	1407.1	1412.2	1409.7	1410.4
25°	1369.2	1376.5	1373.6	1356.7	1352.5	1337.0	1339.5
27.5°	1299.9	1265.6	1230.1	1184.4	1148.4	1119.6	1121.1
30°	1205.7	1145.0	1075.7	1017.7	965.6	951.1	920.1
32.5°	1074.0	983.0	901.9	847.8	803.1	790.9	763.9
35°	850.8	762.4	679.0	628.9	609.1	581.4	581.1
37.5°	661.3	583.5	539.4	501.8	482.1	465.3	463.6
40°	556.4	495.7	462.4	435.3	415.9	403.3	400.4
42.5°	483.0	433.9	402.7	386.0	371.0	364.5	359.7
45°	394.4	361.4	339.7	324.5	317.5	312.6	310.0
47.5°	329.9	307.8	293.0	282.9	277.2	272.1	273.5
50°	294.8	276.7	265.8	256.2	251.9	248.3	248.7
52.5°	266.6	250.3	241.5	234.6	229.3	226.7	225.4
55°	226.3	216.0	207.1	202.2	199.1	195.5	194.6
57.5°	193.0	185.0	177.8	172.2	171.5	168.0	168.4
60°	170.8	164.2	158.3	155.3	153.0	150.1	151.0
62.5°	152.7	147.1	141.6	139.2	136.9	134.7	135.2
65°	125.0	119.7	116.4	115.1	114.1	113.1	112.1
67.5°	99.6	96.3	94.3	91.4	89.5	89.1	88.1
70°	83.8	79.5	75.9	72.2	71.2	70.9	71.2
72.5°	67.2	64.4	63.5	61.6	61.5	60.6	61.2
75°	50.5	49.5	48.8	47.5	47.5	47.5	47.5
77.5°	37.2	36.6	36.2	35.9	35.6	35.1	35.1
80°	29.0	28.7	28.1	28.1	27.7	28.1	27.7
82.5°	21.9	21.9	21.2	21.2	20.8	20.7	20.8
85°	11.2	10.8	11.5	10.8	11.2	10.6	11.2
87.5°	10.1	10.3	10.2	10.3	10.2	10.8	10.4
90°	34.6	35.8	36.7	37.2	37.8	38.4	38.9
92.5°	52.6	53.6	53.8	53.5	53.1	52.8	52.4
95°	99.5	100.7	101.3	101.3	101.3	101.3	101.3
97.5°	154.3	155.7	156.3	156.2	156.0	155.9	155.8
100°	193.5	194.3	195.0	195.6	196.2	196.7	197.3
102.5°	239.2	240.0	240.4	240.3	240.1	240.0	240.0
105°	306.4	306.4	306.7	307.3	307.9	308.4	309.0
107.5°	381.1	382.0	382.3	381.9	381.6	381.3	380.9
110°	430.6	431.8	432.0	431.4	430.9	430.3	429.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	480.1	481.5	482.2	482.1	481.9	481.8	481.6
115°	554.0	554.2	554.2	554.0	553.7	553.4	553.1
117.5°	629.3	629.2	628.8	627.9	627.2	626.4	625.5
120°	679.5	679.2	678.7	678.2	677.6	677.0	676.4
122.5°	730.0	729.3	728.5	727.7	726.9	726.1	725.2
125°	805.4	804.3	803.1	801.9	800.8	799.6	798.5
127.5°	879.9	878.2	876.8	875.5	874.1	872.8	871.4
130°	930.1	928.9	927.3	925.3	923.3	921.3	919.2
132.5°	978.2	976.8	975.3	973.8	972.2	970.6	969.1
135°	1050.8	1049.6	1048.8	1048.2	1047.6	1047.1	1046.5
137.5°	1121.5	1120.3	1119.1	1118.0	1117.0	1115.9	1114.7
140°	1169.0	1168.6	1167.5	1165.4	1163.5	1161.4	1159.4
142.5°	1212.5	1212.3	1211.3	1209.8	1208.2	1206.7	1205.1
145°	1276.7	1276.4	1275.7	1274.5	1273.4	1272.2	1271.1
147.5°	1337.6	1337.6	1336.7	1335.0	1333.3	1331.5	1329.7
150°	1374.9	1374.9	1374.1	1372.3	1370.6	1368.9	1367.2
152.5°	1409.5	1410.1	1409.5	1408.0	1406.5	1405.0	1403.5
155°	1460.2	1461.4	1460.9	1458.9	1456.9	1454.8	1452.9
157.5°	1503.2	1504.4	1504.3	1502.6	1501.0	1499.3	1497.8
160°	1529.9	1531.3	1531.5	1530.3	1529.1	1528.0	1526.8
162.5°	1554.8	1556.3	1556.1	1554.2	1552.4	1550.5	1548.7
165°	1586.6	1588.3	1588.2	1586.1	1584.2	1582.1	1580.1
167.5°	1612.2	1613.9	1613.9	1612.2	1610.4	1608.6	1606.8
170°	1626.4	1628.4	1628.4	1626.4	1624.4	1622.4	1620.3
172.5°	1637.1	1638.9	1638.8	1636.8	1634.8	1632.7	1630.7
175°	1648.9	1650.6	1650.5	1648.5	1646.4	1644.4	1642.4
177.5°	1653.8	1655.2	1655.1	1653.5	1651.8	1650.3	1648.6
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8

(END OF REPORT)