

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: P332109-840

Luminaire Tested: **S123DIW-S340D1320U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332109-840  
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-S340D1320U840-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 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: 6090.1 lumens  
Efficiency: N/A  
Efficacy: 130.7 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

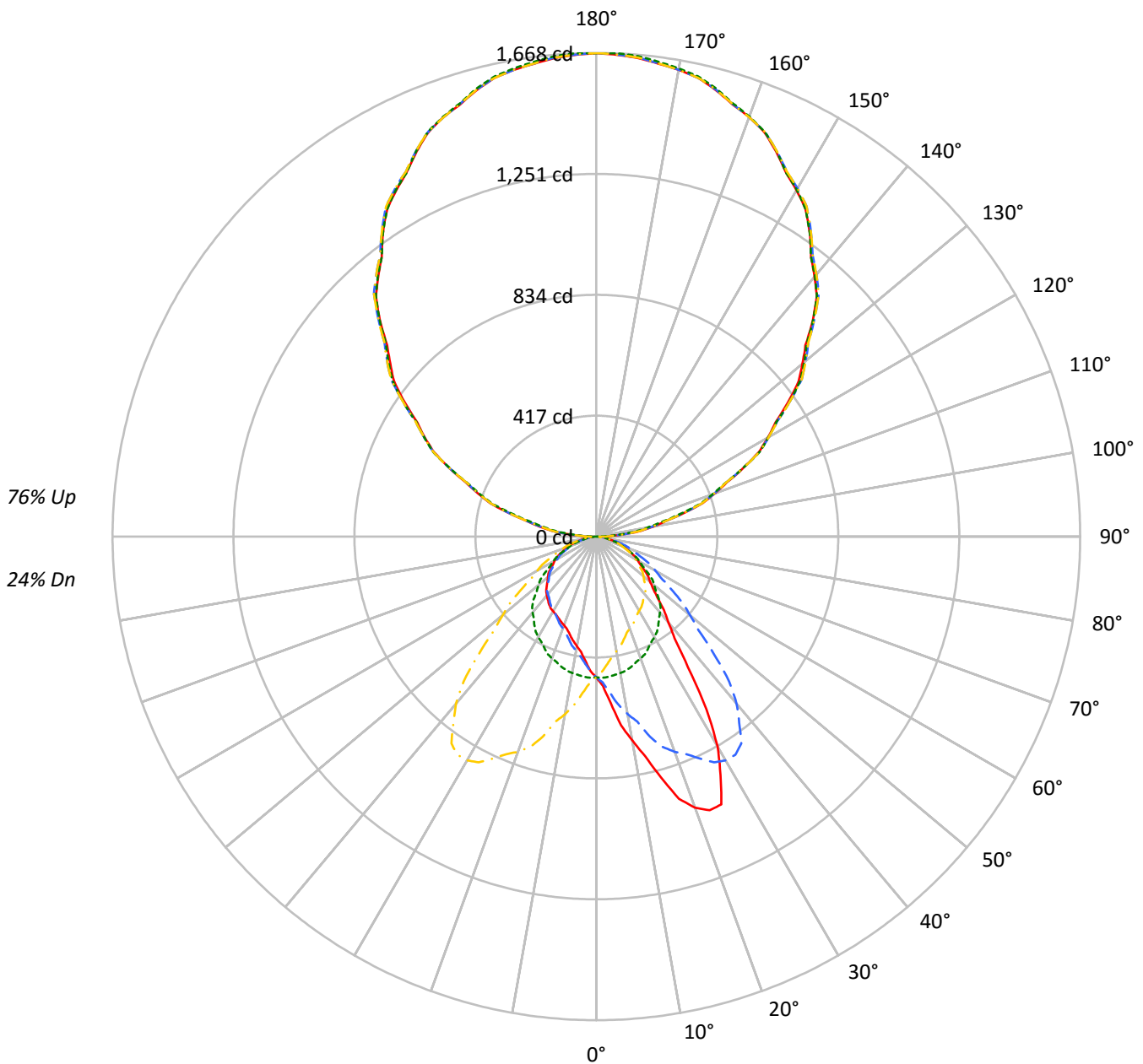
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°



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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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	81	82	78	75	73	60	58	57	44	43	42	29	28	27	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	25	24	23	17
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	53	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	9	7
10	44	32	25	21	39	29	23	19	23	18	15	17	14	12	12	10	9	6

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5226	5226	5226	5226
5°	6232	5249	4652	5249
10°	7802	5223	4203	5223
15°	9569	5180	3911	5180
20°	11399	5116	3725	5116
25°	12105	5035	3682	5035
30°	10376	4977	3701	4977
35°	7215	4893	3741	4893
40°	5435	4796	3729	4796
45°	4512	4652	3682	4652
50°	4042	4357	3647	4357
55°	3780	4040	3603	4040
60°	3546	3707	3565	3707
65°	3331	3380	3451	3380
70°	3125	3006	3286	3006
75°	2799	2633	3015	2633
80°	2448	2157	2597	2157
85°	1927	1568	1741	1568



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.8	0.8
10°-20°	153.4	2.5
20°-30°	257.4	4.2
30°-40°	291.5	4.8
40°-50°	261.4	4.3
50°-60°	210.9	3.5
60°-70°	147.0	2.4
70°-80°	77.3	1.3
80°-90°	23.8	0.4
90°-100°	108.6	1.8
100°-110°	325.1	5.3
110°-120°	553.0	9.1
120°-130°	727.3	11.9
130°-140°	817.5	13.4
140°-150°	803.6	13.2
150°-160°	676.5	11.1
160°-170°	450.3	7.4
170°-180°	157.7	2.6
0°-30°	458.6	7.5
0°-40°	750.1	12.3
0°-60°	1222.4	20.1
0°-90°	1470.5	24.1
90°-120°	986.7	16.2
90°-150°	3335.1	54.8
90°-180°	4620.0	75.9
0°-180°	6090.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	486	486	486	486	486	
5°	577	486	430	486	577	60
15°	859	465	351	465	859	248
25°	1019	424	310	424	1019	447
35°	549	372	285	372	549	357
45°	296	306	242	306	296	235
55°	201	215	192	215	201	181
65°	131	133	136	133	131	130
75°	67	63	72	63	67	72
85°	16	13	14	13	16	19
90°	39	1	39	1	39	20
95°	102	77	102	77	102	105
105°	312	295	312	295	312	331
115°	558	557	558	557	558	552
125°	806	815	806	815	806	720
135°	1056	1057	1056	1057	1056	812
145°	1282	1282	1282	1282	1282	800
155°	1466	1468	1466	1468	1466	675
165°	1594	1599	1594	1599	1594	450
175°	1657	1663	1657	1663	1657	157
180°	1667	1667	1667	1667	1667	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	515.3	514.9	514.0	514.7	513.2	511.2	511.0	509.1	503.6	503.3	501.8
5°	576.8	575.0	574.7	574.5	571.2	566.7	558.3	557.5	546.2	540.7	533.8
7.5°	656.6	657.5	654.1	651.2	641.1	634.4	625.3	613.7	599.9	585.7	576.4
10°	713.8	721.5	712.0	705.3	699.2	687.7	674.3	657.5	640.9	621.4	606.5
12.5°	775.2	778.9	777.0	770.8	761.3	743.8	720.0	701.6	686.2	653.7	640.6
15°	858.7	873.0	863.8	842.7	843.1	826.5	795.5	761.3	743.2	714.7	675.9
17.5°	947.8	949.5	945.6	928.0	916.3	893.2	864.5	831.9	795.2	760.7	719.5
20°	995.1	993.7	985.5	976.3	956.1	938.3	907.0	870.5	823.4	789.5	744.6
22.5°	1021.5	1019.2	1015.2	1007.5	990.8	971.6	943.4	903.6	858.8	812.1	760.2
25°	1019.2	1022.2	1022.7	1020.6	1014.7	1003.2	981.1	949.3	904.6	844.6	790.5
27.5°	927.0	931.3	943.8	955.0	967.5	980.2	978.5	962.7	929.6	877.8	811.6
30°	834.8	825.3	848.6	878.0	898.0	933.3	953.0	954.2	935.6	891.2	826.7
32.5°	706.7	717.1	727.4	763.6	807.3	846.9	886.3	917.9	921.5	891.9	835.6
35°	549.1	562.1	580.9	599.7	646.7	687.2	756.4	816.6	864.5	870.9	836.4
37.5°	442.5	448.9	460.8	479.7	510.4	558.5	611.9	688.0	757.6	809.3	811.5
40°	386.8	388.7	402.0	416.4	441.3	480.9	529.1	596.4	679.6	751.9	782.0
42.5°	345.0	349.1	354.9	368.6	388.5	418.2	463.0	518.7	595.0	678.1	737.0
45°	296.4	301.1	304.7	313.9	328.0	348.0	379.2	430.1	488.2	574.0	653.3
47.5°	264.4	264.7	267.3	274.3	283.9	298.9	321.0	353.7	407.0	476.7	558.1
50°	241.4	245.1	246.1	251.5	259.0	270.0	288.4	316.2	359.9	421.1	495.9
52.5°	225.2	226.3	228.9	232.9	239.4	248.0	264.0	285.7	320.0	372.2	441.0
55°	201.4	201.4	204.0	207.0	210.8	218.5	229.1	245.1	271.2	311.7	368.7
57.5°	179.4	180.6	182.4	183.3	186.5	191.7	200.5	212.7	232.1	263.3	308.5
60°	164.7	166.8	166.5	168.4	171.3	175.3	182.8	192.7	210.1	235.0	273.2
62.5°	151.9	151.8	151.7	154.0	156.7	160.6	165.5	174.0	188.8	211.0	243.4
65°	130.8	130.4	132.0	133.4	134.3	137.1	140.9	148.5	158.3	174.8	200.0
67.5°	112.1	110.7	111.6	112.1	113.7	115.9	119.5	124.1	131.9	145.1	164.1
70°	99.3	98.1	97.9	98.4	99.8	101.4	104.0	108.5	115.7	126.3	140.2
72.5°	86.1	85.3	85.2	86.3	86.9	88.1	89.9	93.9	99.8	107.8	120.7
75°	67.3	67.3	67.3	67.6	68.3	69.2	70.6	72.7	77.2	82.8	91.5
77.5°	50.4	50.4	50.1	50.1	51.1	51.5	51.8	53.8	56.4	60.1	66.4
80°	39.5	38.4	38.8	39.5	40.0	40.2	40.9	41.4	43.5	45.6	50.1
82.5°	29.4	28.4	28.5	29.6	29.7	29.9	30.6	31.2	32.0	33.9	36.4
85°	15.6	15.6	15.8	15.8	16.0	15.8	16.5	16.7	16.7	17.9	19.3
87.5°	13.5	13.0	13.1	13.1	12.8	12.8	12.8	12.8	12.7	12.7	12.1
90°	39.3	38.7	38.2	37.6	37.0	36.1	34.9	33.7	32.6	31.4	27.7
92.5°	52.9	53.2	53.6	53.9	54.3	54.0	53.1	52.1	51.2	50.3	48.2
95°	102.2	102.2	102.2	102.2	102.2	101.6	100.4	99.3	98.1	96.9	94.6
97.5°	157.1	157.3	157.4	157.5	157.6	157.0	155.7	154.3	153.0	151.7	150.0
100°	199.0	198.5	197.9	197.3	196.7	196.0	195.1	194.3	193.4	192.6	191.1
102.5°	242.1	242.2	242.3	242.4	242.5	242.2	241.3	240.3	239.5	238.6	236.7
105°	311.7	311.1	310.5	310.0	309.4	309.1	309.1	309.1	309.1	309.1	306.5
107.5°	384.3	384.7	385.0	385.4	385.7	385.4	384.5	383.5	382.6	381.6	380.6
110°	433.5	434.1	434.7	435.3	435.9	435.6	434.4	433.2	432.1	430.9	430.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	485.9	486.0	486.1	486.3	486.4	485.7	484.3	482.9	481.6	480.2	480.1
115°	558.0	558.3	558.6	558.9	559.2	559.2	558.9	558.6	558.3	558.0	558.6
117.5°	631.1	631.9	632.7	633.5	634.3	634.7	634.8	634.9	634.9	635.0	635.7
120°	682.4	683.0	683.6	684.2	684.7	685.2	685.5	685.7	686.0	686.3	687.8
122.5°	731.6	732.5	733.3	734.1	734.9	735.7	736.4	737.2	737.9	738.7	739.4
125°	805.5	806.7	807.8	809.0	810.2	811.3	812.5	813.6	814.9	816.0	816.6
127.5°	879.1	880.5	881.8	883.1	884.4	886.0	887.6	889.2	890.8	892.5	893.1
130°	927.4	929.4	931.4	933.4	935.4	937.1	938.3	939.4	940.6	941.7	942.6
132.5°	977.7	979.2	980.8	982.3	983.9	985.4	986.7	988.2	989.6	991.0	991.6
135°	1055.7	1056.2	1056.8	1057.4	1058.0	1058.8	1060.1	1061.2	1062.4	1063.5	1063.8
137.5°	1124.6	1125.7	1126.8	1127.9	1129.0	1130.1	1131.4	1132.6	1133.8	1135.1	1134.3
140°	1169.6	1171.6	1173.7	1175.8	1177.8	1178.9	1179.2	1179.5	1179.8	1180.1	1179.8
142.5°	1215.8	1217.3	1218.9	1220.4	1222.0	1222.9	1223.2	1223.6	1223.9	1224.2	1223.6
145°	1282.2	1283.4	1284.5	1285.8	1287.0	1287.7	1288.0	1288.2	1288.5	1288.8	1288.0
147.5°	1341.5	1343.2	1344.9	1346.8	1348.5	1349.3	1349.3	1349.3	1349.3	1349.3	1348.5
150°	1379.2	1380.9	1382.7	1384.4	1386.1	1387.0	1387.0	1387.0	1387.0	1387.0	1386.4
152.5°	1415.8	1417.3	1418.9	1420.4	1421.9	1422.4	1422.0	1421.5	1421.1	1420.6	1420.3
155°	1465.6	1467.6	1469.8	1471.8	1473.8	1474.2	1473.1	1471.9	1470.8	1469.6	1469.3
157.5°	1511.0	1512.6	1514.2	1515.8	1517.4	1517.7	1516.4	1515.2	1514.0	1512.8	1512.6
160°	1540.2	1541.5	1542.7	1543.8	1545.0	1544.8	1543.4	1541.9	1540.4	1538.9	1538.9
162.5°	1562.3	1564.2	1566.0	1567.9	1569.7	1569.9	1568.5	1567.0	1565.6	1564.1	1563.9
165°	1594.0	1596.0	1598.1	1600.1	1602.2	1602.3	1600.5	1598.8	1597.0	1595.3	1595.3
167.5°	1620.9	1622.8	1624.6	1626.4	1628.2	1628.2	1626.4	1624.6	1622.8	1620.9	1620.7
170°	1634.6	1636.6	1638.7	1640.7	1642.7	1642.7	1640.7	1638.7	1636.6	1634.6	1634.6
172.5°	1645.1	1647.1	1649.1	1651.2	1653.3	1653.4	1651.5	1649.7	1647.9	1646.1	1646.1
175°	1656.9	1658.9	1660.9	1662.9	1665.0	1665.2	1663.4	1661.6	1659.9	1658.2	1658.2
177.5°	1663.1	1664.8	1666.4	1668.0	1669.7	1669.8	1668.4	1667.0	1665.6	1664.2	1664.2
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	500.6	499.2	497.7	495.0	492.7	489.6	488.6	487.5	484.0	481.1	478.8
5°	531.2	525.5	517.4	509.8	503.7	495.4	490.8	485.8	478.8	472.4	467.3
7.5°	563.2	552.1	539.3	525.5	512.6	500.2	490.2	481.2	471.3	462.0	454.6
10°	588.7	572.6	554.7	535.4	519.0	503.0	489.6	477.9	465.1	454.0	444.8
12.5°	617.6	593.9	569.3	545.8	526.3	504.1	487.9	472.9	458.5	445.2	434.9
15°	651.9	621.8	592.6	560.4	530.8	503.0	483.7	464.8	448.2	434.5	421.3
17.5°	683.2	649.0	610.6	571.4	535.6	502.7	475.7	454.4	433.5	416.9	403.7
20°	700.8	662.1	618.5	577.8	538.3	501.6	471.9	446.6	423.9	406.3	391.5
22.5°	716.1	670.7	625.6	582.1	538.1	498.6	464.9	438.8	414.3	397.1	381.3
25°	732.0	677.5	632.4	581.4	532.2	491.2	453.6	423.9	399.5	379.2	363.0
27.5°	745.5	677.1	623.5	568.6	522.8	481.8	441.6	409.8	383.8	361.8	345.4
30°	754.5	678.0	614.3	560.0	513.8	471.5	432.4	400.4	373.1	350.8	335.3
32.5°	760.1	677.4	605.8	547.9	499.5	462.0	422.4	389.3	361.2	339.3	324.4
35°	763.5	673.3	591.2	523.0	476.5	439.9	406.8	372.4	343.1	322.6	305.6
37.5°	756.8	664.6	574.3	499.0	448.0	412.1	384.2	355.0	326.8	304.3	289.6
40°	746.5	658.9	561.1	482.0	428.4	393.8	370.1	341.3	313.6	292.2	278.5
42.5°	726.7	647.5	546.6	463.2	408.1	373.5	351.6	327.6	301.3	281.2	267.6
45°	678.5	622.5	524.8	435.0	378.1	342.3	323.1	305.6	281.9	262.4	250.5
47.5°	611.6	584.9	493.4	405.3	346.7	312.4	292.3	278.3	260.9	245.1	233.9
50°	565.1	554.0	472.2	384.9	325.9	292.2	272.9	260.2	247.7	232.0	221.7
52.5°	511.5	518.3	447.4	363.9	304.6	271.5	253.4	243.3	232.0	218.9	210.0
55°	436.0	460.6	404.5	328.4	272.9	241.4	224.2	215.3	208.6	199.0	191.3
57.5°	365.3	396.7	358.0	292.0	241.8	214.6	198.1	188.4	184.2	179.2	173.0
60°	323.3	354.3	324.9	267.5	221.0	195.0	180.5	172.2	167.9	164.4	159.3
62.5°	285.8	317.2	292.6	242.7	200.4	176.4	163.7	155.6	152.4	150.6	146.1
65°	234.3	261.4	244.9	204.0	171.1	149.9	138.4	132.7	129.7	129.0	126.1
67.5°	190.7	211.3	199.3	169.2	143.3	125.0	115.2	110.4	108.1	107.8	105.6
70°	162.1	181.4	172.2	144.9	122.6	108.3	99.8	95.5	94.1	93.9	92.7
72.5°	139.9	153.3	146.0	123.3	106.0	93.0	86.7	82.3	80.8	81.1	80.3
75°	103.5	113.6	109.4	93.6	79.8	71.3	66.1	63.3	61.9	62.6	61.6
77.5°	74.5	80.9	77.1	66.1	57.6	51.5	47.7	45.9	44.6	44.6	44.2
80°	56.2	60.0	57.9	51.3	44.2	39.1	36.0	34.8	34.1	33.8	33.6
82.5°	40.1	43.2	40.7	36.3	31.4	28.3	26.6	25.0	24.5	24.6	24.4
85°	20.2	21.4	20.5	17.7	15.8	14.3	13.4	12.7	12.2	12.4	12.0
87.5°	11.7	11.2	9.9	8.4	7.5	6.4	5.8	4.7	4.9	5.6	6.0
90°	23.8	20.1	16.3	12.9	10.0	7.2	4.2	1.3	4.2	7.2	10.0
92.5°	45.9	43.8	41.7	39.6	37.7	35.6	33.6	31.7	33.6	35.6	37.7
95°	92.3	90.0	87.7	85.4	83.4	81.4	79.3	77.3	79.3	81.4	83.4
97.5°	148.2	146.6	144.9	143.3	141.8	140.3	138.8	137.2	138.8	140.3	141.8
100°	189.7	188.1	186.7	185.1	183.4	181.6	179.9	178.1	179.9	181.6	183.4
102.5°	234.8	232.9	231.0	229.4	228.4	227.4	226.3	225.3	226.3	227.4	228.4
105°	303.9	301.2	298.6	297.0	296.4	295.9	295.3	294.7	295.3	295.9	296.4
107.5°	379.6	378.5	377.5	376.8	376.5	376.1	375.8	375.4	375.8	376.1	376.5
110°	429.8	429.2	428.6	428.0	427.4	426.9	426.3	425.7	426.3	426.9	427.4





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	479.9	479.8	479.7	479.5	479.1	478.8	478.4	478.1	478.4	478.8	479.1
115°	559.2	559.7	560.3	560.2	559.3	558.4	557.5	556.6	557.5	558.4	559.3
117.5°	636.5	637.2	638.0	638.1	637.5	636.9	636.3	635.8	636.3	636.9	637.5
120°	689.2	690.6	692.2	692.0	690.2	688.5	686.7	685.0	686.7	688.5	690.2
122.5°	740.2	740.9	741.7	741.4	740.2	738.9	737.6	736.4	737.6	738.9	740.2
125°	817.2	817.7	818.3	818.2	817.3	816.4	815.6	814.7	815.6	816.4	817.3
127.5°	893.7	894.4	895.0	894.4	892.5	890.7	888.9	887.0	888.9	890.7	892.5
130°	943.5	944.3	945.2	944.5	942.2	939.9	937.5	935.1	937.5	939.9	942.2
132.5°	992.3	992.9	993.5	992.7	990.4	988.1	985.7	983.4	985.7	988.1	990.4
135°	1064.1	1064.4	1064.7	1064.0	1062.2	1060.5	1058.7	1057.0	1058.7	1060.5	1062.2
137.5°	1133.6	1132.8	1132.1	1130.9	1129.4	1128.0	1126.5	1125.1	1126.5	1128.0	1129.4
140°	1179.5	1179.2	1178.9	1178.1	1176.6	1175.2	1173.7	1172.3	1173.7	1175.2	1176.6
142.5°	1223.0	1222.5	1222.0	1221.0	1219.6	1218.1	1216.7	1215.2	1216.7	1218.1	1219.6
145°	1287.1	1286.2	1285.4	1284.5	1284.0	1283.4	1282.8	1282.2	1282.8	1283.4	1284.0
147.5°	1347.7	1346.9	1346.0	1345.1	1344.1	1343.0	1342.0	1340.9	1342.0	1343.0	1344.1
150°	1385.8	1385.3	1384.7	1384.1	1383.5	1383.0	1382.4	1381.8	1382.4	1383.0	1383.5
152.5°	1419.9	1419.6	1419.2	1418.6	1417.7	1416.9	1416.1	1415.3	1416.1	1416.9	1417.7
155°	1468.9	1468.6	1468.4	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2
157.5°	1512.3	1512.1	1511.9	1511.9	1512.3	1512.6	1513.0	1513.3	1513.0	1512.6	1512.3
160°	1538.9	1538.9	1538.9	1539.2	1539.8	1540.4	1541.1	1541.6	1541.1	1540.4	1539.8
162.5°	1563.7	1563.5	1563.2	1563.5	1564.3	1565.1	1565.9	1566.7	1565.9	1565.1	1564.3
165°	1595.3	1595.3	1595.3	1595.8	1596.6	1597.5	1598.3	1599.2	1598.3	1597.5	1596.6
167.5°	1620.5	1620.2	1620.0	1620.5	1621.6	1622.9	1624.0	1625.2	1624.0	1622.9	1621.6
170°	1634.6	1634.6	1634.6	1635.2	1636.4	1637.5	1638.7	1639.8	1638.7	1637.5	1636.4
172.5°	1646.1	1646.1	1646.1	1646.7	1647.9	1649.0	1650.2	1651.3	1650.2	1649.0	1647.9
175°	1658.2	1658.2	1658.2	1658.7	1659.9	1661.1	1662.2	1663.4	1662.2	1661.1	1659.9
177.5°	1664.2	1664.2	1664.2	1664.7	1665.6	1666.5	1667.5	1668.4	1667.5	1666.5	1665.6
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	477.5	476.2	474.3	471.5	469.2	465.6	465.6	466.2	466.2	466.1	465.6
5°	463.0	459.5	455.2	450.3	445.1	439.9	439.0	437.1	435.8	434.7	433.6
7.5°	447.7	441.4	435.3	428.4	422.0	416.9	413.2	410.2	408.3	406.2	404.7
10°	437.4	429.6	422.3	415.1	407.0	400.6	396.7	393.8	391.7	389.8	388.9
12.5°	425.2	416.3	408.2	401.2	392.5	386.0	382.1	380.8	378.4	374.4	372.3
15°	407.3	399.0	389.4	378.8	374.6	366.6	362.0	359.9	358.5	355.5	354.6
17.5°	391.9	381.2	370.3	362.4	354.6	348.1	345.6	343.0	341.1	338.6	337.8
20°	379.7	370.1	360.2	351.7	343.5	336.4	334.3	332.4	330.5	329.4	328.4
22.5°	367.3	357.7	349.4	341.5	332.8	328.1	325.9	323.8	322.4	321.6	320.7
25°	349.8	341.3	332.1	325.2	318.1	315.0	313.6	312.5	311.4	310.3	310.0
27.5°	334.3	325.0	317.6	310.9	305.9	303.4	301.9	301.4	301.6	302.1	302.4
30°	322.6	314.1	308.0	302.4	297.6	295.3	295.0	295.0	296.0	296.2	296.7
32.5°	311.8	304.9	298.7	293.3	289.7	288.1	289.0	289.0	289.7	290.3	291.2
35°	296.2	290.0	285.4	280.6	277.6	278.3	278.8	279.2	280.4	281.9	282.8
37.5°	281.2	276.0	271.0	267.4	266.0	267.2	268.4	269.3	270.7	271.9	272.8
40°	270.5	266.5	261.9	258.5	259.0	259.7	260.6	261.9	263.1	263.8	264.7
42.5°	260.5	256.4	252.8	250.0	250.7	251.7	252.2	252.8	254.2	255.5	256.0
45°	245.4	242.1	238.8	237.1	237.6	238.1	238.5	239.2	240.4	241.4	241.7
47.5°	228.3	226.0	223.8	222.2	223.0	222.8	223.4	224.9	225.2	225.8	227.1
50°	217.4	215.3	212.7	212.2	212.2	212.2	212.5	214.3	214.3	215.3	216.2
52.5°	205.3	204.0	202.4	201.5	201.1	201.1	202.1	203.0	203.4	204.7	205.7
55°	187.5	186.1	184.7	184.0	183.5	184.0	185.8	186.3	187.5	188.2	188.9
57.5°	169.0	167.8	166.7	166.3	166.2	166.8	167.8	169.3	169.6	171.8	172.8
60°	156.7	155.0	154.1	154.1	153.6	155.7	155.3	157.6	158.1	159.6	161.2
62.5°	144.1	141.9	141.5	141.5	142.2	142.8	143.4	144.4	145.7	147.4	148.8
65°	123.7	122.6	124.2	124.0	123.5	124.9	124.9	126.1	127.5	129.2	131.8
67.5°	104.5	103.9	104.0	104.0	104.7	105.5	106.2	107.2	109.0	110.7	112.4
70°	91.5	92.2	91.1	92.0	92.7	92.9	93.4	94.8	96.6	97.9	99.8
72.5°	78.9	78.9	79.0	79.4	80.1	80.5	81.0	82.6	84.6	85.6	87.2
75°	60.7	60.5	61.2	61.2	62.3	62.8	63.3	64.0	65.8	67.3	68.5
77.5°	44.3	44.6	44.4	45.2	44.9	45.0	46.5	47.2	47.4	50.2	50.8
80°	33.4	33.8	34.1	34.3	34.5	34.1	35.7	36.5	36.5	38.1	39.3
82.5°	24.0	24.2	24.8	25.1	25.1	25.7	25.8	26.3	26.9	27.6	29.1
85°	12.0	12.7	12.9	12.7	12.9	12.4	13.1	13.4	13.6	13.6	13.6
87.5°	6.4	7.2	7.8	8.7	9.3	10.2	10.5	10.3	10.6	11.3	10.8
90°	12.9	16.3	20.1	23.8	27.7	31.4	32.6	33.7	34.9	36.1	37.0
92.5°	39.6	41.7	43.8	45.9	48.2	50.3	51.2	52.1	53.1	54.0	54.3
95°	85.4	87.7	90.0	92.3	94.6	96.9	98.1	99.3	100.4	101.6	102.2
97.5°	143.3	144.9	146.6	148.2	150.0	151.7	153.0	154.3	155.7	157.0	157.6
100°	185.1	186.7	188.1	189.7	191.1	192.6	193.4	194.3	195.1	196.0	196.7
102.5°	229.4	231.0	232.9	234.8	236.7	238.6	239.5	240.3	241.3	242.2	242.5
105°	297.0	298.6	301.2	303.9	306.5	309.1	309.1	309.1	309.1	309.1	309.4
107.5°	376.8	377.5	378.5	379.6	380.6	381.6	382.6	383.5	384.5	385.4	385.7
110°	428.0	428.6	429.2	429.8	430.3	430.9	432.1	433.2	434.4	435.6	435.9



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	479.5	479.7	479.8	479.9	480.1	480.2	481.6	482.9	484.3	485.7	486.4
115°	560.2	560.3	559.7	559.2	558.6	558.0	558.3	558.6	558.9	559.2	559.2
117.5°	638.1	638.0	637.2	636.5	635.7	635.0	634.9	634.9	634.8	634.7	634.3
120°	692.0	692.2	690.6	689.2	687.8	686.3	686.0	685.7	685.5	685.2	684.7
122.5°	741.4	741.7	740.9	740.2	739.4	738.7	737.9	737.2	736.4	735.7	734.9
125°	818.2	818.3	817.7	817.2	816.6	816.0	814.9	813.6	812.5	811.3	810.2
127.5°	894.4	895.0	894.4	893.7	893.1	892.5	890.8	889.2	887.6	886.0	884.4
130°	944.5	945.2	944.3	943.5	942.6	941.7	940.6	939.4	938.3	937.1	935.4
132.5°	992.7	993.5	992.9	992.3	991.6	991.0	989.6	988.2	986.7	985.4	983.9
135°	1064.0	1064.7	1064.4	1064.1	1063.8	1063.5	1062.4	1061.2	1060.1	1058.8	1058.0
137.5°	1130.9	1132.1	1132.8	1133.6	1134.3	1135.1	1133.8	1132.6	1131.4	1130.1	1129.0
140°	1178.1	1178.9	1179.2	1179.5	1179.8	1180.1	1179.8	1179.5	1179.2	1178.9	1177.8
142.5°	1221.0	1222.0	1222.5	1223.0	1223.6	1224.2	1223.9	1223.6	1223.2	1222.9	1222.0
145°	1284.5	1285.4	1286.2	1287.1	1288.0	1288.8	1288.5	1288.2	1288.0	1287.7	1287.0
147.5°	1345.1	1346.0	1346.9	1347.7	1348.5	1349.3	1349.3	1349.3	1349.3	1349.3	1348.5
150°	1384.1	1384.7	1385.3	1385.8	1386.4	1387.0	1387.0	1387.0	1387.0	1387.0	1386.1
152.5°	1418.6	1419.2	1419.6	1419.9	1420.3	1420.6	1421.1	1421.5	1422.0	1422.4	1421.9
155°	1468.2	1468.4	1468.6	1468.9	1469.3	1469.6	1470.8	1471.9	1473.1	1474.2	1473.8
157.5°	1511.9	1511.9	1512.1	1512.3	1512.6	1512.8	1514.0	1515.2	1516.4	1517.7	1517.4
160°	1539.2	1538.9	1538.9	1538.9	1538.9	1538.9	1540.4	1541.9	1543.4	1544.8	1545.0
162.5°	1563.5	1563.2	1563.5	1563.7	1563.9	1564.1	1565.6	1567.0	1568.5	1569.9	1569.7
165°	1595.8	1595.3	1595.3	1595.3	1595.3	1595.3	1597.0	1598.8	1600.5	1602.3	1602.2
167.5°	1620.5	1620.0	1620.2	1620.5	1620.7	1620.9	1622.8	1624.6	1626.4	1628.2	1628.2
170°	1635.2	1634.6	1634.6	1634.6	1634.6	1634.6	1636.6	1638.7	1640.7	1642.7	1642.7
172.5°	1646.7	1646.1	1646.1	1646.1	1646.1	1646.1	1647.9	1649.7	1651.5	1653.4	1653.3
175°	1658.7	1658.2	1658.2	1658.2	1658.2	1658.2	1659.9	1661.6	1663.4	1665.2	1665.0
177.5°	1664.7	1664.2	1664.2	1664.2	1664.2	1664.2	1665.6	1667.0	1668.4	1669.8	1669.7
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	464.3	464.1	465.4	464.5	465.4	464.1	464.3	465.6	466.1	466.2	466.2
5°	432.2	432.9	430.5	430.5	430.5	432.9	432.2	433.6	434.7	435.8	437.1
7.5°	403.5	402.5	402.6	401.3	402.6	402.5	403.5	404.7	406.2	408.3	410.2
10°	386.1	384.7	384.2	384.5	384.2	384.7	386.1	388.9	389.8	391.7	393.8
12.5°	371.5	371.3	368.2	368.2	368.2	371.3	371.5	372.3	374.4	378.4	380.8
15°	354.6	350.1	349.6	351.0	349.6	350.1	354.6	354.6	355.5	358.5	359.9
17.5°	337.5	335.1	335.3	334.6	335.3	335.1	337.5	337.8	338.6	341.1	343.0
20°	328.4	327.0	326.8	325.2	326.8	327.0	328.4	328.4	329.4	330.5	332.4
22.5°	320.1	319.7	319.8	318.0	319.8	319.7	320.1	320.7	321.6	322.4	323.8
25°	309.8	311.0	310.0	310.0	310.0	311.0	309.8	310.0	310.3	311.4	312.5
27.5°	302.9	302.9	302.4	302.4	302.4	302.9	302.9	302.4	302.1	301.6	301.4
30°	297.6	297.4	297.8	297.8	297.8	297.4	297.6	296.7	296.2	296.0	295.0
32.5°	292.4	292.7	292.8	293.0	292.8	292.7	292.4	291.2	290.3	289.7	289.0
35°	284.2	284.5	285.2	284.7	285.2	284.5	284.2	282.8	281.9	280.4	279.2
37.5°	273.2	274.3	274.1	274.4	274.1	274.3	273.2	272.8	271.9	270.7	269.3
40°	264.9	265.6	265.4	265.4	265.4	265.6	264.9	264.7	263.8	263.1	261.9
42.5°	256.4	256.9	256.3	256.0	256.3	256.9	256.4	256.0	255.5	254.2	252.8
45°	242.6	242.1	242.8	241.9	242.8	242.1	242.6	241.7	241.4	240.4	239.2
47.5°	227.0	227.5	227.7	228.4	227.7	227.5	227.0	227.1	225.8	225.2	224.9
50°	216.7	218.1	218.1	217.8	218.1	218.1	216.7	216.2	215.3	214.3	214.3
52.5°	206.5	207.1	208.1	208.0	208.1	207.1	206.5	205.7	204.7	203.4	203.0
55°	190.8	191.3	191.8	192.0	191.8	191.3	190.8	188.9	188.2	187.5	186.3
57.5°	174.5	174.3	175.4	175.8	175.4	174.3	174.5	172.8	171.8	169.6	169.3
60°	163.0	163.0	164.9	165.6	164.9	163.0	163.0	161.2	159.6	158.1	157.6
62.5°	150.8	151.6	153.4	152.5	153.4	151.6	150.8	148.8	147.4	145.7	144.4
65°	132.9	134.8	134.6	135.5	134.6	134.8	132.9	131.8	129.2	127.5	126.1
67.5°	114.2	115.4	117.1	117.2	117.1	115.4	114.2	112.4	110.7	109.0	107.2
70°	101.6	102.8	103.7	104.4	103.7	102.8	101.6	99.8	97.9	96.6	94.8
72.5°	89.4	90.0	92.3	91.3	92.3	90.0	89.4	87.2	85.6	84.6	82.6
75°	70.1	71.8	73.2	72.5	73.2	71.8	70.1	68.5	67.3	65.8	64.0
77.5°	51.8	53.5	54.1	53.5	54.1	53.5	51.8	50.8	50.2	47.4	47.2
80°	40.9	40.7	42.1	41.9	42.1	40.7	40.9	39.3	38.1	36.5	36.5
82.5°	30.0	29.8	30.4	30.6	30.4	29.8	30.0	29.1	27.6	26.9	26.3
85°	14.5	15.2	14.3	14.1	14.3	15.2	14.5	13.6	13.6	13.6	13.4
87.5°	10.9	11.0	10.9	10.9	10.9	11.0	10.9	10.8	11.3	10.6	10.3
90°	37.6	38.2	38.7	39.3	38.7	38.2	37.6	37.0	36.1	34.9	33.7
92.5°	53.9	53.6	53.2	52.9	53.2	53.6	53.9	54.3	54.0	53.1	52.1
95°	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	101.6	100.4	99.3
97.5°	157.5	157.4	157.3	157.1	157.3	157.4	157.5	157.6	157.0	155.7	154.3
100°	197.3	197.9	198.5	199.0	198.5	197.9	197.3	196.7	196.0	195.1	194.3
102.5°	242.4	242.3	242.2	242.1	242.2	242.3	242.4	242.5	242.2	241.3	240.3
105°	310.0	310.5	311.1	311.7	311.1	310.5	310.0	309.4	309.1	309.1	309.1
107.5°	385.4	385.0	384.7	384.3	384.7	385.0	385.4	385.7	385.4	384.5	383.5
110°	435.3	434.7	434.1	433.5	434.1	434.7	435.3	435.9	435.6	434.4	433.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	486.3	486.1	486.0	485.9	486.0	486.1	486.3	486.4	485.7	484.3	482.9
115°	558.9	558.6	558.3	558.0	558.3	558.6	558.9	559.2	559.2	558.9	558.6
117.5°	633.5	632.7	631.9	631.1	631.9	632.7	633.5	634.3	634.7	634.8	634.9
120°	684.2	683.6	683.0	682.4	683.0	683.6	684.2	684.7	685.2	685.5	685.7
122.5°	734.1	733.3	732.5	731.6	732.5	733.3	734.1	734.9	735.7	736.4	737.2
125°	809.0	807.8	806.7	805.5	806.7	807.8	809.0	810.2	811.3	812.5	813.6
127.5°	883.1	881.8	880.5	879.1	880.5	881.8	883.1	884.4	886.0	887.6	889.2
130°	933.4	931.4	929.4	927.4	929.4	931.4	933.4	935.4	937.1	938.3	939.4
132.5°	982.3	980.8	979.2	977.7	979.2	980.8	982.3	983.9	985.4	986.7	988.2
135°	1057.4	1056.8	1056.2	1055.7	1056.2	1056.8	1057.4	1058.0	1058.8	1060.1	1061.2
137.5°	1127.9	1126.8	1125.7	1124.6	1125.7	1126.8	1127.9	1129.0	1130.1	1131.4	1132.6
140°	1175.8	1173.7	1171.6	1169.6	1171.6	1173.7	1175.8	1177.8	1178.9	1179.2	1179.5
142.5°	1220.4	1218.9	1217.3	1215.8	1217.3	1218.9	1220.4	1222.0	1222.9	1223.2	1223.6
145°	1285.8	1284.5	1283.4	1282.2	1283.4	1284.5	1285.8	1287.0	1287.7	1288.0	1288.2
147.5°	1346.8	1344.9	1343.2	1341.5	1343.2	1344.9	1346.8	1348.5	1349.3	1349.3	1349.3
150°	1384.4	1382.7	1380.9	1379.2	1380.9	1382.7	1384.4	1386.1	1387.0	1387.0	1387.0
152.5°	1420.4	1418.9	1417.3	1415.8	1417.3	1418.9	1420.4	1421.9	1422.4	1422.0	1421.5
155°	1471.8	1469.8	1467.6	1465.6	1467.6	1469.8	1471.8	1473.8	1474.2	1473.1	1471.9
157.5°	1515.8	1514.2	1512.6	1511.0	1512.6	1514.2	1515.8	1517.4	1517.7	1516.4	1515.2
160°	1543.8	1542.7	1541.5	1540.2	1541.5	1542.7	1543.8	1545.0	1544.8	1543.4	1541.9
162.5°	1567.9	1566.0	1564.2	1562.3	1564.2	1566.0	1567.9	1569.7	1569.9	1568.5	1567.0
165°	1600.1	1598.1	1596.0	1594.0	1596.0	1598.1	1600.1	1602.2	1602.3	1600.5	1598.8
167.5°	1626.4	1624.6	1622.8	1620.9	1622.8	1624.6	1626.4	1628.2	1628.2	1626.4	1624.6
170°	1640.7	1638.7	1636.6	1634.6	1636.6	1638.7	1640.7	1642.7	1642.7	1640.7	1638.7
172.5°	1651.2	1649.1	1647.1	1645.1	1647.1	1649.1	1651.2	1653.3	1653.4	1651.5	1649.7
175°	1662.9	1660.9	1658.9	1656.9	1658.9	1660.9	1662.9	1665.0	1665.2	1663.4	1661.6
177.5°	1668.0	1666.4	1664.8	1663.1	1664.8	1666.4	1668.0	1669.7	1669.8	1668.4	1667.0
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	465.6	465.6	469.2	471.5	474.3	476.2	477.5	478.8	481.1	484.0	487.5
5°	439.0	439.9	445.1	450.3	455.2	459.5	463.0	467.3	472.4	478.8	485.8
7.5°	413.2	416.9	422.0	428.4	435.3	441.4	447.7	454.6	462.0	471.3	481.2
10°	396.7	400.6	407.0	415.1	422.3	429.6	437.4	444.8	454.0	465.1	477.9
12.5°	382.1	386.0	392.5	401.2	408.2	416.3	425.2	434.9	445.2	458.5	472.9
15°	362.0	366.6	374.6	378.8	389.4	399.0	407.3	421.3	434.5	448.2	464.8
17.5°	345.6	348.1	354.6	362.4	370.3	381.2	391.9	403.7	416.9	433.5	454.4
20°	334.3	336.4	343.5	351.7	360.2	370.1	379.7	391.5	406.3	423.9	446.6
22.5°	325.9	328.1	332.8	341.5	349.4	357.7	367.3	381.3	397.1	414.3	438.8
25°	313.6	315.0	318.1	325.2	332.1	341.3	349.8	363.0	379.2	399.5	423.9
27.5°	301.9	303.4	305.9	310.9	317.6	325.0	334.3	345.4	361.8	383.8	409.8
30°	295.0	295.3	297.6	302.4	308.0	314.1	322.6	335.3	350.8	373.1	400.4
32.5°	289.0	288.1	289.7	293.3	298.7	304.9	311.8	324.4	339.3	361.2	389.3
35°	278.8	278.3	277.6	280.6	285.4	290.0	296.2	305.6	322.6	343.1	372.4
37.5°	268.4	267.2	266.0	267.4	271.0	276.0	281.2	289.6	304.3	326.8	355.0
40°	260.6	259.7	259.0	258.5	261.9	266.5	270.5	278.5	292.2	313.6	341.3
42.5°	252.2	251.7	250.7	250.0	252.8	256.4	260.5	267.6	281.2	301.3	327.6
45°	238.5	238.1	237.6	237.1	238.8	242.1	245.4	250.5	262.4	281.9	305.6
47.5°	223.4	222.8	223.0	222.2	223.8	226.0	228.3	233.9	245.1	260.9	278.3
50°	212.5	212.2	212.2	212.2	212.7	215.3	217.4	221.7	232.0	247.7	260.2
52.5°	202.1	201.1	201.1	201.5	202.4	204.0	205.3	210.0	218.9	232.0	243.3
55°	185.8	184.0	183.5	184.0	184.7	186.1	187.5	191.3	199.0	208.6	215.3
57.5°	167.8	166.8	166.2	166.3	166.7	167.8	169.0	173.0	179.2	184.2	188.4
60°	155.3	155.7	153.6	154.1	154.1	155.0	156.7	159.3	164.4	167.9	172.2
62.5°	143.4	142.8	142.2	141.5	141.5	141.9	144.1	146.1	150.6	152.4	155.6
65°	124.9	124.9	123.5	124.0	124.2	122.6	123.7	126.1	129.0	129.7	132.7
67.5°	106.2	105.5	104.7	104.0	104.0	103.9	104.5	105.6	107.8	108.1	110.4
70°	93.4	92.9	92.7	92.0	91.1	92.2	91.5	92.7	93.9	94.1	95.5
72.5°	81.0	80.5	80.1	79.4	79.0	78.9	78.9	80.3	81.1	80.8	82.3
75°	63.3	62.8	62.3	61.2	61.2	60.5	60.7	61.6	62.6	61.9	63.3
77.5°	46.5	45.0	44.9	45.2	44.4	44.6	44.3	44.2	44.6	44.6	45.9
80°	35.7	34.1	34.5	34.3	34.1	33.8	33.4	33.6	33.8	34.1	34.8
82.5°	25.8	25.7	25.1	25.1	24.8	24.2	24.0	24.4	24.6	24.5	25.0
85°	13.1	12.4	12.9	12.7	12.9	12.7	12.0	12.0	12.4	12.2	12.7
87.5°	10.5	10.2	9.3	8.7	7.8	7.2	6.4	6.0	5.6	4.9	4.7
90°	32.6	31.4	27.7	23.8	20.1	16.3	12.9	10.0	7.2	4.2	1.3
92.5°	51.2	50.3	48.2	45.9	43.8	41.7	39.6	37.7	35.6	33.6	31.7
95°	98.1	96.9	94.6	92.3	90.0	87.7	85.4	83.4	81.4	79.3	77.3
97.5°	153.0	151.7	150.0	148.2	146.6	144.9	143.3	141.8	140.3	138.8	137.2
100°	193.4	192.6	191.1	189.7	188.1	186.7	185.1	183.4	181.6	179.9	178.1
102.5°	239.5	238.6	236.7	234.8	232.9	231.0	229.4	228.4	227.4	226.3	225.3
105°	309.1	309.1	306.5	303.9	301.2	298.6	297.0	296.4	295.9	295.3	294.7
107.5°	382.6	381.6	380.6	379.6	378.5	377.5	376.8	376.5	376.1	375.8	375.4
110°	432.1	430.9	430.3	429.8	429.2	428.6	428.0	427.4	426.9	426.3	425.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	481.6	480.2	480.1	479.9	479.8	479.7	479.5	479.1	478.8	478.4	478.1
115°	558.3	558.0	558.6	559.2	559.7	560.3	560.2	559.3	558.4	557.5	556.6
117.5°	634.9	635.0	635.7	636.5	637.2	638.0	638.1	637.5	636.9	636.3	635.8
120°	686.0	686.3	687.8	689.2	690.6	692.2	692.0	690.2	688.5	686.7	685.0
122.5°	737.9	738.7	739.4	740.2	740.9	741.7	741.4	740.2	738.9	737.6	736.4
125°	814.9	816.0	816.6	817.2	817.7	818.3	818.2	817.3	816.4	815.6	814.7
127.5°	890.8	892.5	893.1	893.7	894.4	895.0	894.4	892.5	890.7	888.9	887.0
130°	940.6	941.7	942.6	943.5	944.3	945.2	944.5	942.2	939.9	937.5	935.1
132.5°	989.6	991.0	991.6	992.3	992.9	993.5	992.7	990.4	988.1	985.7	983.4
135°	1062.4	1063.5	1063.8	1064.1	1064.4	1064.7	1064.0	1062.2	1060.5	1058.7	1057.0
137.5°	1133.8	1135.1	1134.3	1133.6	1132.8	1132.1	1130.9	1129.4	1128.0	1126.5	1125.1
140°	1179.8	1180.1	1179.8	1179.5	1179.2	1178.9	1178.1	1176.6	1175.2	1173.7	1172.3
142.5°	1223.9	1224.2	1223.6	1223.0	1222.5	1222.0	1221.0	1219.6	1218.1	1216.7	1215.2
145°	1288.5	1288.8	1288.0	1287.1	1286.2	1285.4	1284.5	1284.0	1283.4	1282.8	1282.2
147.5°	1349.3	1349.3	1348.5	1347.7	1346.9	1346.0	1345.1	1344.1	1343.0	1342.0	1340.9
150°	1387.0	1387.0	1386.4	1385.8	1385.3	1384.7	1384.1	1383.5	1383.0	1382.4	1381.8
152.5°	1421.1	1420.6	1420.3	1419.9	1419.6	1419.2	1418.6	1417.7	1416.9	1416.1	1415.3
155°	1470.8	1469.6	1469.3	1468.9	1468.6	1468.4	1468.2	1468.2	1468.2	1468.2	1468.2
157.5°	1514.0	1512.8	1512.6	1512.3	1512.1	1511.9	1511.9	1512.3	1512.6	1513.0	1513.3
160°	1540.4	1538.9	1538.9	1538.9	1538.9	1538.9	1539.2	1539.8	1540.4	1541.1	1541.6
162.5°	1565.6	1564.1	1563.9	1563.7	1563.5	1563.2	1563.5	1564.3	1565.1	1565.9	1566.7
165°	1597.0	1595.3	1595.3	1595.3	1595.3	1595.3	1595.8	1596.6	1597.5	1598.3	1599.2
167.5°	1622.8	1620.9	1620.7	1620.5	1620.2	1620.0	1620.5	1621.6	1622.9	1624.0	1625.2
170°	1636.6	1634.6	1634.6	1634.6	1634.6	1634.6	1635.2	1636.4	1637.5	1638.7	1639.8
172.5°	1647.9	1646.1	1646.1	1646.1	1646.1	1646.1	1646.7	1647.9	1649.0	1650.2	1651.3
175°	1659.9	1658.2	1658.2	1658.2	1658.2	1658.2	1658.7	1659.9	1661.1	1662.2	1663.4
177.5°	1665.6	1664.2	1664.2	1664.2	1664.2	1664.2	1664.7	1665.6	1666.5	1667.5	1668.4
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	488.6	489.6	492.7	495.0	497.7	499.2	500.6	501.8	503.3	503.6	509.1
5°	490.8	495.4	503.7	509.8	517.4	525.5	531.2	533.8	540.7	546.2	557.5
7.5°	490.2	500.2	512.6	525.5	539.3	552.1	563.2	576.4	585.7	599.9	613.7
10°	489.6	503.0	519.0	535.4	554.7	572.6	588.7	606.5	621.4	640.9	657.5
12.5°	487.9	504.1	526.3	545.8	569.3	593.9	617.6	640.6	653.7	686.2	701.6
15°	483.7	503.0	530.8	560.4	592.6	621.8	651.9	675.9	714.7	743.2	761.3
17.5°	475.7	502.7	535.6	571.4	610.6	649.0	683.2	719.5	760.7	795.2	831.9
20°	471.9	501.6	538.3	577.8	618.5	662.1	700.8	744.6	789.5	823.4	870.5
22.5°	464.9	498.6	538.1	582.1	625.6	670.7	716.1	760.2	812.1	858.8	903.6
25°	453.6	491.2	532.2	581.4	632.4	677.5	732.0	790.5	844.6	904.6	949.3
27.5°	441.6	481.8	522.8	568.6	623.5	677.1	745.5	811.6	877.8	929.6	962.7
30°	432.4	471.5	513.8	560.0	614.3	678.0	754.5	826.7	891.2	935.6	954.2
32.5°	422.4	462.0	499.5	547.9	605.8	677.4	760.1	835.6	891.9	921.5	917.9
35°	406.8	439.9	476.5	523.0	591.2	673.3	763.5	836.4	870.9	864.5	816.6
37.5°	384.2	412.1	448.0	499.0	574.3	664.6	756.8	811.5	809.3	757.6	688.0
40°	370.1	393.8	428.4	482.0	561.1	658.9	746.5	782.0	751.9	679.6	596.4
42.5°	351.6	373.5	408.1	463.2	546.6	647.5	726.7	737.0	678.1	595.0	518.7
45°	323.1	342.3	378.1	435.0	524.8	622.5	678.5	653.3	574.0	488.2	430.1
47.5°	292.3	312.4	346.7	405.3	493.4	584.9	611.6	558.1	476.7	407.0	353.7
50°	272.9	292.2	325.9	384.9	472.2	554.0	565.1	495.9	421.1	359.9	316.2
52.5°	253.4	271.5	304.6	363.9	447.4	518.3	511.5	441.0	372.2	320.0	285.7
55°	224.2	241.4	272.9	328.4	404.5	460.6	436.0	368.7	311.7	271.2	245.1
57.5°	198.1	214.6	241.8	292.0	358.0	396.7	365.3	308.5	263.3	232.1	212.7
60°	180.5	195.0	221.0	267.5	324.9	354.3	323.3	273.2	235.0	210.1	192.7
62.5°	163.7	176.4	200.4	242.7	292.6	317.2	285.8	243.4	211.0	188.8	174.0
65°	138.4	149.9	171.1	204.0	244.9	261.4	234.3	200.0	174.8	158.3	148.5
67.5°	115.2	125.0	143.3	169.2	199.3	211.3	190.7	164.1	145.1	131.9	124.1
70°	99.8	108.3	122.6	144.9	172.2	181.4	162.1	140.2	126.3	115.7	108.5
72.5°	86.7	93.0	106.0	123.3	146.0	153.3	139.9	120.7	107.8	99.8	93.9
75°	66.1	71.3	79.8	93.6	109.4	113.6	103.5	91.5	82.8	77.2	72.7
77.5°	47.7	51.5	57.6	66.1	77.1	80.9	74.5	66.4	60.1	56.4	53.8
80°	36.0	39.1	44.2	51.3	57.9	60.0	56.2	50.1	45.6	43.5	41.4
82.5°	26.6	28.3	31.4	36.3	40.7	43.2	40.1	36.4	33.9	32.0	31.2
85°	13.4	14.3	15.8	17.7	20.5	21.4	20.2	19.3	17.9	16.7	16.7
87.5°	5.8	6.4	7.5	8.4	9.9	11.2	11.7	12.1	12.7	12.7	12.8
90°	4.2	7.2	10.0	12.9	16.3	20.1	23.8	27.7	31.4	32.6	33.7
92.5°	33.6	35.6	37.7	39.6	41.7	43.8	45.9	48.2	50.3	51.2	52.1
95°	79.3	81.4	83.4	85.4	87.7	90.0	92.3	94.6	96.9	98.1	99.3
97.5°	138.8	140.3	141.8	143.3	144.9	146.6	148.2	150.0	151.7	153.0	154.3
100°	179.9	181.6	183.4	185.1	186.7	188.1	189.7	191.1	192.6	193.4	194.3
102.5°	226.3	227.4	228.4	229.4	231.0	232.9	234.8	236.7	238.6	239.5	240.3
105°	295.3	295.9	296.4	297.0	298.6	301.2	303.9	306.5	309.1	309.1	309.1
107.5°	375.8	376.1	376.5	376.8	377.5	378.5	379.6	380.6	381.6	382.6	383.5
110°	426.3	426.9	427.4	428.0	428.6	429.2	429.8	430.3	430.9	432.1	433.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	478.4	478.8	479.1	479.5	479.7	479.8	479.9	480.1	480.2	481.6	482.9
115°	557.5	558.4	559.3	560.2	560.3	559.7	559.2	558.6	558.0	558.3	558.6
117.5°	636.3	636.9	637.5	638.1	638.0	637.2	636.5	635.7	635.0	634.9	634.9
120°	686.7	688.5	690.2	692.0	692.2	690.6	689.2	687.8	686.3	686.0	685.7
122.5°	737.6	738.9	740.2	741.4	741.7	740.9	740.2	739.4	738.7	737.9	737.2
125°	815.6	816.4	817.3	818.2	818.3	817.7	817.2	816.6	816.0	814.9	813.6
127.5°	888.9	890.7	892.5	894.4	895.0	894.4	893.7	893.1	892.5	890.8	889.2
130°	937.5	939.9	942.2	944.5	945.2	944.3	943.5	942.6	941.7	940.6	939.4
132.5°	985.7	988.1	990.4	992.7	993.5	992.9	992.3	991.6	991.0	989.6	988.2
135°	1058.7	1060.5	1062.2	1064.0	1064.7	1064.4	1064.1	1063.8	1063.5	1062.4	1061.2
137.5°	1126.5	1128.0	1129.4	1130.9	1132.1	1132.8	1133.6	1134.3	1135.1	1133.8	1132.6
140°	1173.7	1175.2	1176.6	1178.1	1178.9	1179.2	1179.5	1179.8	1180.1	1179.8	1179.5
142.5°	1216.7	1218.1	1219.6	1221.0	1222.0	1222.5	1223.0	1223.6	1224.2	1223.9	1223.6
145°	1282.8	1283.4	1284.0	1284.5	1285.4	1286.2	1287.1	1288.0	1288.8	1288.5	1288.2
147.5°	1342.0	1343.0	1344.1	1345.1	1346.0	1346.9	1347.7	1348.5	1349.3	1349.3	1349.3
150°	1382.4	1383.0	1383.5	1384.1	1384.7	1385.3	1385.8	1386.4	1387.0	1387.0	1387.0
152.5°	1416.1	1416.9	1417.7	1418.6	1419.2	1419.6	1419.9	1420.3	1420.6	1421.1	1421.5
155°	1468.2	1468.2	1468.2	1468.2	1468.4	1468.6	1468.9	1469.3	1469.6	1470.8	1471.9
157.5°	1513.0	1512.6	1512.3	1511.9	1511.9	1512.1	1512.3	1512.6	1512.8	1514.0	1515.2
160°	1541.1	1540.4	1539.8	1539.2	1538.9	1538.9	1538.9	1538.9	1538.9	1540.4	1541.9
162.5°	1565.9	1565.1	1564.3	1563.5	1563.2	1563.5	1563.7	1563.9	1564.1	1565.6	1567.0
165°	1598.3	1597.5	1596.6	1595.8	1595.3	1595.3	1595.3	1595.3	1595.3	1597.0	1598.8
167.5°	1624.0	1622.9	1621.6	1620.5	1620.0	1620.2	1620.5	1620.7	1620.9	1622.8	1624.6
170°	1638.7	1637.5	1636.4	1635.2	1634.6	1634.6	1634.6	1634.6	1634.6	1636.6	1638.7
172.5°	1650.2	1649.0	1647.9	1646.7	1646.1	1646.1	1646.1	1646.1	1646.1	1647.9	1649.7
175°	1662.2	1661.1	1659.9	1658.7	1658.2	1658.2	1658.2	1658.2	1658.2	1659.9	1661.6
177.5°	1667.5	1666.5	1665.6	1664.7	1664.2	1664.2	1664.2	1664.2	1664.2	1665.6	1667.0
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	511.0	511.2	513.2	514.7	514.0	514.9	515.3
5°	558.3	566.7	571.2	574.5	574.7	575.0	576.8
7.5°	625.3	634.4	641.1	651.2	654.1	657.5	656.6
10°	674.3	687.7	699.2	705.3	712.0	721.5	713.8
12.5°	720.0	743.8	761.3	770.8	777.0	778.9	775.2
15°	795.5	826.5	843.1	842.7	863.8	873.0	858.7
17.5°	864.5	893.2	916.3	928.0	945.6	949.5	947.8
20°	907.0	938.3	956.1	976.3	985.5	993.7	995.1
22.5°	943.4	971.6	990.8	1007.5	1015.2	1019.2	1021.5
25°	981.1	1003.2	1014.7	1020.6	1022.7	1022.2	1019.2
27.5°	978.5	980.2	967.5	955.0	943.8	931.3	927.0
30°	953.0	933.3	898.0	878.0	848.6	825.3	834.8
32.5°	886.3	846.9	807.3	763.6	727.4	717.1	706.7
35°	756.4	687.2	646.7	599.7	580.9	562.1	549.1
37.5°	611.9	558.5	510.4	479.7	460.8	448.9	442.5
40°	529.1	480.9	441.3	416.4	402.0	388.7	386.8
42.5°	463.0	418.2	388.5	368.6	354.9	349.1	345.0
45°	379.2	348.0	328.0	313.9	304.7	301.1	296.4
47.5°	321.0	298.9	283.9	274.3	267.3	264.7	264.4
50°	288.4	270.0	259.0	251.5	246.1	245.1	241.4
52.5°	264.0	248.0	239.4	232.9	228.9	226.3	225.2
55°	229.1	218.5	210.8	207.0	204.0	201.4	201.4
57.5°	200.5	191.7	186.5	183.3	182.4	180.6	179.4
60°	182.8	175.3	171.3	168.4	166.5	166.8	164.7
62.5°	165.5	160.6	156.7	154.0	151.7	151.8	151.9
65°	140.9	137.1	134.3	133.4	132.0	130.4	130.8
67.5°	119.5	115.9	113.7	112.1	111.6	110.7	112.1
70°	104.0	101.4	99.8	98.4	97.9	98.1	99.3
72.5°	89.9	88.1	86.9	86.3	85.2	85.3	86.1
75°	70.6	69.2	68.3	67.6	67.3	67.3	67.3
77.5°	51.8	51.5	51.1	50.1	50.1	50.4	50.4
80°	40.9	40.2	40.0	39.5	38.8	38.4	39.5
82.5°	30.6	29.9	29.7	29.6	28.5	28.4	29.4
85°	16.5	15.8	16.0	15.8	15.8	15.6	15.6
87.5°	12.8	12.8	12.8	13.1	13.1	13.0	13.5
90°	34.9	36.1	37.0	37.6	38.2	38.7	39.3
92.5°	53.1	54.0	54.3	53.9	53.6	53.2	52.9
95°	100.4	101.6	102.2	102.2	102.2	102.2	102.2
97.5°	155.7	157.0	157.6	157.5	157.4	157.3	157.1
100°	195.1	196.0	196.7	197.3	197.9	198.5	199.0
102.5°	241.3	242.2	242.5	242.4	242.3	242.2	242.1
105°	309.1	309.1	309.4	310.0	310.5	311.1	311.7
107.5°	384.5	385.4	385.7	385.4	385.0	384.7	384.3
110°	434.4	435.6	435.9	435.3	434.7	434.1	433.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	484.3	485.7	486.4	486.3	486.1	486.0	485.9
115°	558.9	559.2	559.2	558.9	558.6	558.3	558.0
117.5°	634.8	634.7	634.3	633.5	632.7	631.9	631.1
120°	685.5	685.2	684.7	684.2	683.6	683.0	682.4
122.5°	736.4	735.7	734.9	734.1	733.3	732.5	731.6
125°	812.5	811.3	810.2	809.0	807.8	806.7	805.5
127.5°	887.6	886.0	884.4	883.1	881.8	880.5	879.1
130°	938.3	937.1	935.4	933.4	931.4	929.4	927.4
132.5°	986.7	985.4	983.9	982.3	980.8	979.2	977.7
135°	1060.1	1058.8	1058.0	1057.4	1056.8	1056.2	1055.7
137.5°	1131.4	1130.1	1129.0	1127.9	1126.8	1125.7	1124.6
140°	1179.2	1178.9	1177.8	1175.8	1173.7	1171.6	1169.6
142.5°	1223.2	1222.9	1222.0	1220.4	1218.9	1217.3	1215.8
145°	1288.0	1287.7	1287.0	1285.8	1284.5	1283.4	1282.2
147.5°	1349.3	1349.3	1348.5	1346.8	1344.9	1343.2	1341.5
150°	1387.0	1387.0	1386.1	1384.4	1382.7	1380.9	1379.2
152.5°	1422.0	1422.4	1421.9	1420.4	1418.9	1417.3	1415.8
155°	1473.1	1474.2	1473.8	1471.8	1469.8	1467.6	1465.6
157.5°	1516.4	1517.7	1517.4	1515.8	1514.2	1512.6	1511.0
160°	1543.4	1544.8	1545.0	1543.8	1542.7	1541.5	1540.2
162.5°	1568.5	1569.9	1569.7	1567.9	1566.0	1564.2	1562.3
165°	1600.5	1602.3	1602.2	1600.1	1598.1	1596.0	1594.0
167.5°	1626.4	1628.2	1628.2	1626.4	1624.6	1622.8	1620.9
170°	1640.7	1642.7	1642.7	1640.7	1638.7	1636.6	1634.6
172.5°	1651.5	1653.4	1653.3	1651.2	1649.1	1647.1	1645.1
175°	1663.4	1665.2	1665.0	1662.9	1660.9	1658.9	1656.9
177.5°	1668.4	1669.8	1669.7	1668.0	1666.4	1664.8	1663.1
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4

(END OF REPORT)