

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: P332406-935

Luminaire Tested: **S123RDIW-S340D1535U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332406-935
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: S123RDIW-S340D1535U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6455.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

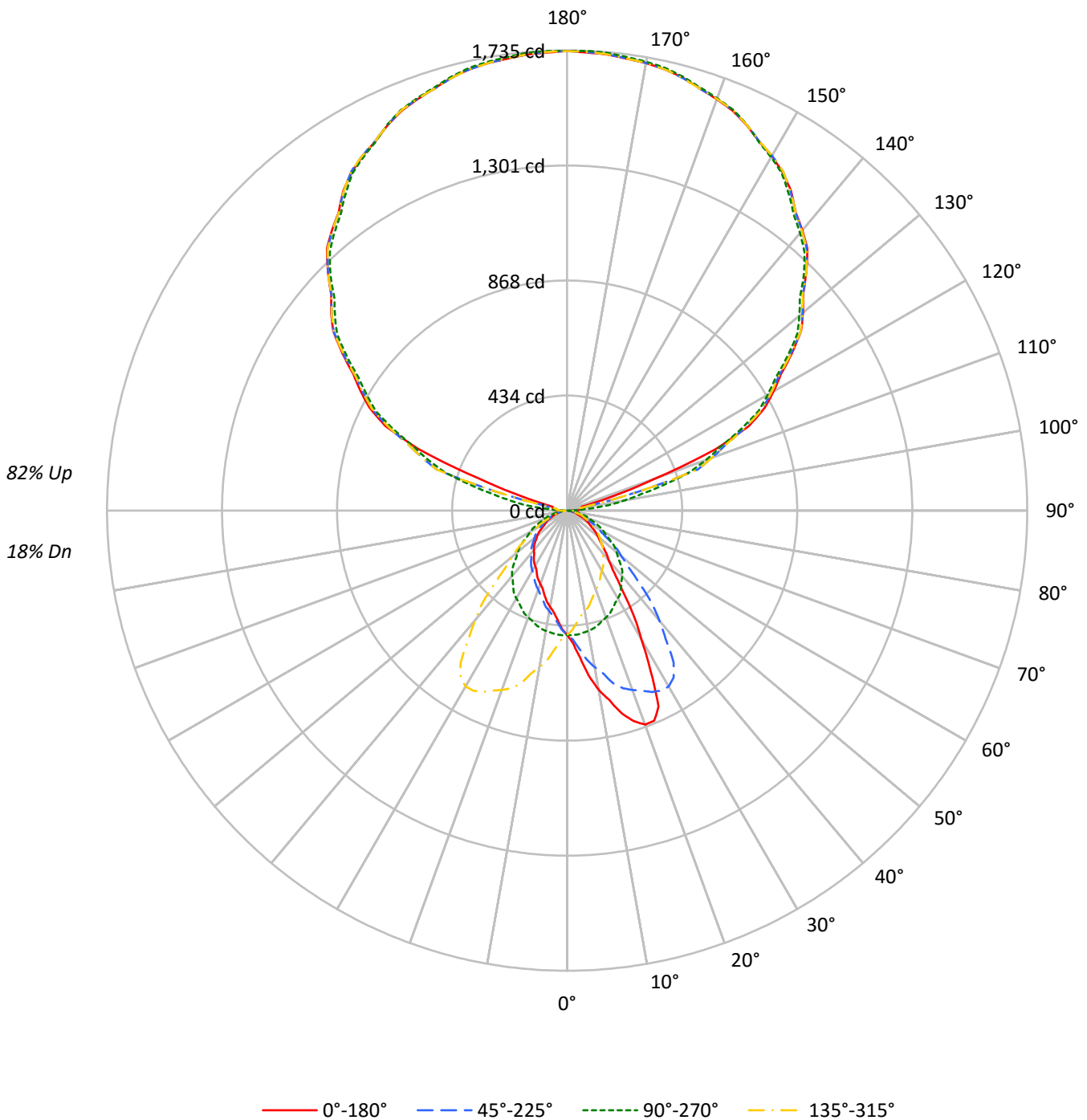
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	45	45	45	27	27	27	18				
1	91	87	83	80	80	77	74	71	58	56	54	40	39	38	24	23	23	16				
2	83	76	70	66	73	67	62	58	51	48	45	35	34	32	21	20	20	13				
3	76	67	60	55	66	59	54	49	45	41	38	31	29	27	19	18	17	12				
4	69	59	52	46	61	52	46	42	40	36	32	28	25	23	17	16	15	10				
5	63	53	45	39	56	47	40	36	36	31	28	25	22	20	15	14	13	9				
6	58	47	39	34	51	42	35	31	32	27	24	23	20	18	14	13	11	8				
7	54	42	35	30	47	38	31	27	29	24	21	21	18	16	13	11	10	7				
8	50	38	31	26	44	34	28	24	26	22	19	19	16	14	12	10	9	6				
9	46	35	28	23	41	31	25	21	24	20	17	17	14	12	11	9	8	6				
10	43	32	25	20	38	28	22	19	22	18	15	16	13	11	10	9	7	5				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5044	5044	5044	5044
5°	6013	5065	4460	5065
10°	7507	5037	4030	5037
15°	8811	4985	3675	4985
20°	9835	4907	3373	4907
25°	9678	4827	3188	4827
30°	6955	4753	2997	4753
35°	4644	4654	2872	4654
40°	3421	4539	2746	4539
45°	2871	4332	2620	4332
50°	2534	4064	2445	4064
55°	2222	3757	2205	3757
60°	1978	3462	2019	3462
65°	1737	3148	1880	3148
70°	1363	2867	1718	2867
75°	1198	2504	1568	2504
80°	1048	2126	1543	2126
85°	840	1717	1643	1717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	0.7
10°-20°	144.0	2.2
20°-30°	226.2	3.5
30°-40°	236.0	3.7
40°-50°	201.9	3.1
50°-60°	153.9	2.4
60°-70°	98.7	1.5
70°-80°	47.5	0.7
80°-90°	17.4	0.3
90°-100°	63.0	1.0
100°-110°	300.2	4.7
110°-120°	721.1	11.2
120°-130°	918.3	14.2
130°-140°	981.1	15.2
140°-150°	917.5	14.2
150°-160°	740.1	11.5
160°-170°	477.6	7.4
170°-180°	164.6	2.6
0°-30°	416.2	6.4
0°-40°	652.2	10.1
0°-60°	1008.0	15.6
0°-90°	1171.6	18.1
90°-120°	1084.3	16.8
90°-150°	3901.2	60.4
90°-180°	5283.0	81.8
0°-180°	6455.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	469	469	469	469	469	
5°	556	469	413	469	556	57
15°	791	447	330	447	791	224
25°	815	406	268	406	815	350
35°	353	354	219	354	353	232
45°	189	285	172	285	189	148
55°	118	200	118	200	118	107
65°	68	124	74	124	68	67
75°	29	60	38	60	29	31
85°	7	14	13	14	7	9
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°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	499.1	499.7	497.7	497.3	494.9	494.3	494.3	490.9	488.8	486.1	484.5
5°	556.5	559.6	558.0	554.5	548.5	547.0	543.2	537.2	530.4	521.9	518.0
7.5°	628.1	632.5	630.8	625.3	618.9	613.8	603.0	593.1	579.1	566.8	556.3
10°	686.8	682.3	678.6	673.2	667.4	658.0	646.7	631.3	613.5	599.3	583.8
12.5°	730.8	730.0	725.5	719.9	711.7	702.7	688.9	670.1	649.4	629.0	611.1
15°	790.7	791.9	788.9	783.2	771.5	755.6	734.8	726.9	697.2	675.2	653.2
17.5°	832.2	832.0	831.6	823.5	811.7	800.4	781.0	760.4	733.6	702.5	672.8
20°	858.6	856.5	857.0	847.9	839.1	826.0	807.2	777.3	755.3	719.4	688.6
22.5°	857.9	857.5	859.0	855.9	849.5	839.6	824.7	799.4	771.3	735.0	700.5
25°	814.9	813.2	822.6	825.3	835.5	837.3	832.8	819.1	792.4	755.0	712.3
27.5°	681.9	681.1	698.5	720.5	748.2	769.8	790.7	800.7	792.4	765.6	722.8
30°	559.6	578.5	587.4	619.1	654.4	696.5	733.4	768.4	777.1	765.4	730.4
32.5°	464.7	481.1	488.5	515.7	548.6	598.0	653.3	703.0	738.1	747.0	725.9
35°	353.4	353.6	370.5	382.5	413.0	463.7	517.5	584.1	650.3	700.5	705.7
37.5°	282.1	283.0	293.3	305.2	328.1	354.9	402.3	457.6	534.1	611.1	656.3
40°	243.5	245.3	253.0	264.8	281.2	301.5	338.4	390.5	454.3	540.0	610.0
42.5°	218.8	221.7	225.7	234.8	245.0	264.0	293.8	334.1	392.1	473.1	553.9
45°	188.6	190.2	193.2	197.4	206.6	219.8	239.9	267.0	315.1	380.3	461.2
47.5°	166.3	165.5	168.7	172.0	178.2	187.3	200.7	222.7	257.1	309.4	378.0
50°	151.3	151.0	153.3	155.8	161.7	168.3	179.3	196.0	223.3	266.6	329.4
52.5°	137.2	137.8	139.5	142.7	146.9	152.2	162.1	174.2	197.6	235.0	287.3
55°	118.4	119.0	121.1	123.0	126.0	131.4	137.6	147.7	163.7	189.8	232.9
57.5°	102.5	102.2	104.3	104.8	108.1	112.5	117.4	125.2	136.8	156.2	185.2
60°	91.9	91.3	93.1	94.5	96.3	99.9	103.9	111.5	120.8	135.0	159.9
62.5°	82.2	82.0	83.3	84.7	86.2	89.5	92.8	98.7	106.0	118.0	137.8
65°	68.2	68.8	69.4	70.0	70.8	72.8	76.0	80.1	85.1	93.5	107.7
67.5°	53.6	54.2	54.4	55.6	57.3	58.6	60.6	64.1	67.7	74.7	82.8
70°	43.3	43.1	43.3	43.9	46.1	48.3	51.0	53.6	55.8	60.8	67.6
72.5°	37.2	36.9	37.4	37.5	38.6	39.2	40.8	43.3	46.1	49.5	54.4
75°	28.8	28.8	28.8	28.8	29.7	30.0	30.7	31.3	32.3	33.9	37.5
77.5°	21.4	21.4	21.7	21.9	22.0	22.3	22.6	23.2	23.6	24.5	26.0
80°	16.9	17.0	16.9	17.0	17.0	17.5	17.7	18.3	18.4	19.5	20.1
82.5°	12.7	12.6	12.7	12.9	12.9	13.3	13.3	13.8	13.8	14.3	14.9
85°	6.8	6.5	6.8	6.6	7.1	6.6	6.8	7.2	7.2	7.4	8.3
87.5°	9.3	9.6	9.1	9.1	9.0	9.0	8.8	8.5	8.7	8.3	7.7
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	52.3	50.5	48.5	46.5	44.5	42.5
105°	56.7	56.1	55.5	54.9	54.3	53.7	52.0	50.0	48.0	46.0	44.0
107.5°	177.9	216.0	254.2	292.4	330.5	368.2	405.3	442.4	479.6	516.7	553.8
110°	354.0	394.9	435.8	476.6	517.5	558.4	599.3	640.2	681.1	722.0	762.9



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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°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	483.8	483.4	481.1	478.5	475.2	472.9	471.1	470.2	467.3	463.7	461.4
5°	513.8	507.7	501.3	493.4	486.2	478.8	474.2	468.8	462.2	454.8	449.5
7.5°	545.7	533.9	521.2	508.1	495.2	483.5	473.2	464.4	453.9	443.2	435.8
10°	570.3	553.0	535.2	516.9	500.3	484.7	472.6	460.8	448.2	435.9	426.6
12.5°	592.6	569.9	549.3	526.8	505.6	486.9	469.6	455.6	440.4	427.4	416.9
15°	620.9	597.5	572.7	538.6	510.3	486.6	465.5	447.3	428.9	412.8	402.6
17.5°	647.2	612.3	578.8	550.4	513.6	484.1	458.3	436.5	416.2	399.2	386.6
20°	658.1	624.2	588.0	551.6	515.6	482.4	452.5	428.4	407.4	388.1	376.5
22.5°	664.7	626.4	588.1	549.1	510.7	476.3	446.8	420.3	397.4	379.2	364.8
25°	672.4	626.6	584.5	546.0	506.9	469.6	434.5	406.4	381.8	362.3	347.1
27.5°	677.4	623.6	573.9	531.1	491.4	454.3	422.1	392.3	367.2	346.6	330.3
30°	678.4	621.2	565.7	519.4	479.1	444.9	410.8	382.4	355.9	334.0	318.7
32.5°	679.7	615.3	554.6	505.4	464.1	430.3	399.4	372.2	345.1	323.6	308.0
35°	674.4	612.0	537.8	481.2	439.9	407.2	379.4	354.2	327.6	306.7	290.8
37.5°	651.6	599.0	520.4	454.0	410.8	380.6	357.8	336.0	311.5	289.0	274.1
40°	628.7	586.2	506.9	437.5	392.4	361.3	340.8	323.0	299.3	278.2	262.2
42.5°	594.5	568.6	494.0	420.2	371.5	341.6	324.3	307.5	286.8	265.4	250.3
45°	531.8	535.2	467.8	392.5	342.6	312.5	296.3	284.6	266.2	248.6	233.1
47.5°	453.1	485.0	437.0	363.2	312.2	284.0	269.8	259.6	247.1	229.8	215.7
50°	401.8	447.3	412.2	343.5	293.1	265.0	251.0	242.7	231.9	218.3	204.8
52.5°	354.5	403.4	382.4	321.4	272.3	246.7	233.0	226.2	217.6	204.7	192.6
55°	289.0	338.6	333.8	288.3	241.3	218.3	207.8	200.2	194.4	184.8	175.1
57.5°	233.8	280.8	283.3	251.3	214.0	191.1	182.2	176.4	172.6	165.4	156.4
60°	199.0	242.1	250.6	226.4	194.4	174.4	165.5	160.8	157.9	152.1	145.3
62.5°	170.1	206.8	216.4	199.1	175.6	156.8	149.9	145.5	143.4	138.4	132.4
65°	130.2	160.7	169.9	160.3	148.0	133.0	127.3	123.6	121.7	119.0	114.5
67.5°	97.9	120.1	130.3	123.5	119.0	109.5	106.0	103.9	102.3	100.4	96.7
70°	78.6	95.1	105.5	103.8	100.1	95.1	92.5	91.1	89.5	87.8	84.6
72.5°	63.2	74.6	84.3	85.2	82.3	81.3	79.0	78.4	77.4	75.5	73.7
75°	41.9	49.8	56.6	59.2	60.4	61.4	60.4	60.2	60.0	58.4	57.3
77.5°	27.5	31.7	36.0	40.5	42.4	43.7	44.0	44.8	44.2	43.4	42.9
80°	21.1	22.0	25.1	28.8	31.9	33.1	33.9	34.3	34.1	33.9	33.1
82.5°	15.3	16.1	17.6	20.2	22.7	24.7	25.2	25.1	25.6	25.7	25.1
85°	8.3	8.4	8.9	9.2	10.6	12.8	13.4	13.9	14.2	14.2	13.0
87.5°	7.2	6.4	5.9	5.3	5.2	4.7	5.2	5.4	6.1	6.0	6.6
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: P332406-935

CATALOG NUMBER: S123RDIW-S340D1535U935-4F0-1E-UDD-A

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: P332406-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	460.5	458.5	457.0	453.8	451.8	449.5	447.3	448.7	448.5	448.4	448.4
5°	445.1	440.5	436.3	430.8	427.5	423.3	420.1	419.7	420.4	417.7	416.0
7.5°	429.8	423.5	417.5	411.6	405.2	400.1	397.0	395.5	393.5	391.8	389.9
10°	419.0	411.6	405.8	398.4	391.6	385.6	381.8	379.1	377.7	376.3	373.7
12.5°	407.9	400.7	393.3	384.9	378.4	371.4	368.6	365.7	363.0	361.4	357.8
15°	391.8	382.4	374.5	365.7	358.4	351.6	347.7	341.8	341.0	339.0	335.4
17.5°	375.5	365.3	354.5	347.9	339.8	332.7	326.6	324.7	318.9	316.8	313.6
20°	362.7	353.3	345.0	336.4	324.6	318.0	313.1	310.6	305.9	303.1	301.1
22.5°	351.6	342.0	332.5	322.4	312.7	305.2	301.7	297.6	295.2	291.2	289.0
25°	335.8	325.4	313.9	303.1	296.1	290.5	284.8	281.2	277.6	275.8	271.8
27.5°	317.5	306.5	295.8	287.6	279.0	273.5	268.4	265.2	260.8	257.8	255.5
30°	307.3	294.5	285.2	277.8	266.8	261.6	257.8	253.7	250.6	247.4	245.1
32.5°	295.6	283.9	275.2	266.0	257.5	251.8	246.8	243.3	240.6	237.5	235.3
35°	277.2	267.4	258.4	249.2	242.9	237.1	231.3	228.3	225.7	222.8	220.8
37.5°	260.6	251.4	242.8	234.1	226.4	221.6	217.0	214.6	211.1	209.2	207.2
40°	250.4	241.3	232.1	223.7	215.7	212.1	207.8	204.4	201.2	199.8	197.6
42.5°	239.1	230.1	222.3	213.3	206.6	201.7	197.9	194.2	191.7	189.7	188.5
45°	222.5	214.5	206.8	197.8	191.6	187.4	183.0	179.5	177.4	175.9	173.7
47.5°	206.3	198.3	190.5	182.7	176.7	171.9	167.4	165.1	162.1	160.4	158.9
50°	194.6	187.4	179.2	171.9	165.9	161.1	157.5	154.5	151.9	149.6	148.6
52.5°	183.8	176.2	169.0	162.3	155.9	150.5	147.2	144.0	142.1	139.6	138.4
55°	166.1	158.7	152.7	146.0	139.8	135.2	131.2	128.4	126.4	123.6	122.0
57.5°	149.5	142.8	135.6	129.8	123.5	119.6	116.2	112.4	109.9	107.8	106.2
60°	138.2	130.6	124.3	119.0	113.3	108.3	105.3	102.3	99.7	97.5	96.1
62.5°	126.5	119.9	113.9	108.1	102.9	98.5	95.1	92.6	90.2	88.9	87.4
65°	108.5	103.3	97.3	92.5	87.6	84.5	81.6	79.5	77.8	76.8	75.6
67.5°	92.0	87.0	81.7	77.0	73.7	71.3	69.5	67.6	66.7	65.4	64.7
70°	81.3	76.0	71.4	67.8	64.6	62.8	61.6	60.2	59.4	57.8	57.0
72.5°	69.6	65.8	62.4	59.5	56.9	55.3	53.7	52.0	50.7	48.9	48.1
75°	54.8	51.3	48.7	46.8	45.1	43.0	40.7	38.9	38.3	37.7	37.5
77.5°	40.6	38.4	36.5	34.8	32.8	31.3	30.7	30.3	30.2	29.9	29.9
80°	31.9	29.9	28.5	26.5	25.3	25.3	25.3	24.9	25.1	25.1	25.1
82.5°	23.7	21.9	21.1	20.4	20.1	20.3	20.3	20.4	20.2	20.6	20.4
85°	12.2	12.4	12.8	12.7	12.8	12.8	13.3	13.0	13.3	12.8	13.3
87.5°	7.1	8.2	9.0	10.0	10.8	11.5	11.9	12.1	12.5	12.7	12.9
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°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	446.4	446.3	446.4	445.8	446.4	446.3	446.4	448.4	448.4	448.5	448.7
5°	415.4	415.3	414.7	412.8	414.7	415.3	415.4	416.0	417.7	420.4	419.7
7.5°	388.3	388.1	386.3	386.3	386.3	388.1	388.3	389.9	391.8	393.5	395.5
10°	372.3	372.5	370.1	368.7	370.1	372.5	372.3	373.7	376.3	377.7	379.1
12.5°	356.7	355.9	353.9	352.3	353.9	355.9	356.7	357.8	361.4	363.0	365.7
15°	336.2	334.2	329.4	329.8	329.4	334.2	336.2	335.4	339.0	341.0	341.8
17.5°	312.0	310.6	310.5	307.6	310.5	310.6	312.0	313.6	316.8	318.9	324.7
20°	297.9	296.9	297.3	294.5	297.3	296.9	297.9	301.1	303.1	305.9	310.6
22.5°	286.8	285.8	284.1	283.3	284.1	285.8	286.8	289.0	291.2	295.2	297.6
25°	270.6	269.0	267.4	268.4	267.4	269.0	270.6	271.8	275.8	277.6	281.2
27.5°	254.4	253.2	251.6	251.4	251.6	253.2	254.4	255.5	257.8	260.8	265.2
30°	244.1	242.9	242.1	241.1	242.1	242.9	244.1	245.1	247.4	250.6	253.7
32.5°	233.7	233.4	232.0	231.8	232.0	233.4	233.7	235.3	237.5	240.6	243.3
35°	220.1	218.9	218.4	218.6	218.4	218.9	220.1	220.8	222.8	225.7	228.3
37.5°	207.1	205.5	204.7	204.1	204.7	205.5	207.1	207.2	209.2	211.1	214.6
40°	197.8	196.2	195.8	195.4	195.8	196.2	197.8	197.6	199.8	201.2	204.4
42.5°	187.4	186.8	186.5	185.7	186.5	186.8	187.4	188.5	189.7	191.7	194.2
45°	173.1	172.9	171.7	172.1	171.7	172.9	173.1	173.7	175.9	177.4	179.5
47.5°	158.1	157.2	156.4	157.0	156.4	157.2	158.1	158.9	160.4	162.1	165.1
50°	147.8	147.4	145.6	146.0	145.6	147.4	147.8	148.6	149.6	151.9	154.5
52.5°	137.6	136.0	135.3	135.1	135.3	136.0	137.6	138.4	139.6	142.1	144.0
55°	120.5	118.7	118.0	117.5	118.0	118.7	120.5	122.0	123.6	126.4	128.4
57.5°	103.8	103.4	102.7	103.1	102.7	103.4	103.8	106.2	107.8	109.9	112.4
60°	94.1	94.1	94.1	93.8	94.1	94.1	94.1	96.1	97.5	99.7	102.3
62.5°	86.5	86.0	85.9	86.2	85.9	86.0	86.5	87.4	88.9	90.2	92.6
65°	75.0	74.8	74.0	73.8	74.0	74.8	75.0	75.6	76.8	77.8	79.5
67.5°	64.1	63.5	63.2	62.9	63.2	63.5	64.1	64.7	65.4	66.7	67.6
70°	56.0	55.5	54.3	54.6	54.3	55.5	56.0	57.0	57.8	59.4	60.2
72.5°	47.2	46.8	46.5	46.2	46.5	46.8	47.2	48.1	48.9	50.7	52.0
75°	37.3	37.1	36.9	37.7	36.9	37.1	37.3	37.5	37.7	38.3	38.9
77.5°	29.9	29.9	30.0	29.7	30.0	29.9	29.9	29.9	29.9	30.2	30.3
80°	25.1	25.1	24.9	24.9	24.9	25.1	25.1	25.1	25.1	25.1	24.9
82.5°	20.1	20.2	20.4	20.1	20.4	20.2	20.1	20.4	20.6	20.2	20.4
85°	13.3	13.0	13.4	13.3	13.4	13.0	13.3	13.3	12.8	13.3	13.0
87.5°	13.3	13.1	13.3	13.5	13.3	13.1	13.3	12.9	12.7	12.5	12.1
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



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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°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	447.3	449.5	451.8	453.8	457.0	458.5	460.5	461.4	463.7	467.3	470.2
5°	420.1	423.3	427.5	430.8	436.3	440.5	445.1	449.5	454.8	462.2	468.8
7.5°	397.0	400.1	405.2	411.6	417.5	423.5	429.8	435.8	443.2	453.9	464.4
10°	381.8	385.6	391.6	398.4	405.8	411.6	419.0	426.6	435.9	448.2	460.8
12.5°	368.6	371.4	378.4	384.9	393.3	400.7	407.9	416.9	427.4	440.4	455.6
15°	347.7	351.6	358.4	365.7	374.5	382.4	391.8	402.6	412.8	428.9	447.3
17.5°	326.6	332.7	339.8	347.9	354.5	365.3	375.5	386.6	399.2	416.2	436.5
20°	313.1	318.0	324.6	336.4	345.0	353.3	362.7	376.5	388.1	407.4	428.4
22.5°	301.7	305.2	312.7	322.4	332.5	342.0	351.6	364.8	379.2	397.4	420.3
25°	284.8	290.5	296.1	303.1	313.9	325.4	335.8	347.1	362.3	381.8	406.4
27.5°	268.4	273.5	279.0	287.6	295.8	306.5	317.5	330.3	346.6	367.2	392.3
30°	257.8	261.6	266.8	277.8	285.2	294.5	307.3	318.7	334.0	355.9	382.4
32.5°	246.8	251.8	257.5	266.0	275.2	283.9	295.6	308.0	323.6	345.1	372.2
35°	231.3	237.1	242.9	249.2	258.4	267.4	277.2	290.8	306.7	327.6	354.2
37.5°	217.0	221.6	226.4	234.1	242.8	251.4	260.6	274.1	289.0	311.5	336.0
40°	207.8	212.1	215.7	223.7	232.1	241.3	250.4	262.2	278.2	299.3	323.0
42.5°	197.9	201.7	206.6	213.3	222.3	230.1	239.1	250.3	265.4	286.8	307.5
45°	183.0	187.4	191.6	197.8	206.8	214.5	222.5	233.1	248.6	266.2	284.6
47.5°	167.4	171.9	176.7	182.7	190.5	198.3	206.3	215.7	229.8	247.1	259.6
50°	157.5	161.1	165.9	171.9	179.2	187.4	194.6	204.8	218.3	231.9	242.7
52.5°	147.2	150.5	155.9	162.3	169.0	176.2	183.8	192.6	204.7	217.6	226.2
55°	131.2	135.2	139.8	146.0	152.7	158.7	166.1	175.1	184.8	194.4	200.2
57.5°	116.2	119.6	123.5	129.8	135.6	142.8	149.5	156.4	165.4	172.6	176.4
60°	105.3	108.3	113.3	119.0	124.3	130.6	138.2	145.3	152.1	157.9	160.8
62.5°	95.1	98.5	102.9	108.1	113.9	119.9	126.5	132.4	138.4	143.4	145.5
65°	81.6	84.5	87.6	92.5	97.3	103.3	108.5	114.5	119.0	121.7	123.6
67.5°	69.5	71.3	73.7	77.0	81.7	87.0	92.0	96.7	100.4	102.3	103.9
70°	61.6	62.8	64.6	67.8	71.4	76.0	81.3	84.6	87.8	89.5	91.1
72.5°	53.7	55.3	56.9	59.5	62.4	65.8	69.6	73.7	75.5	77.4	78.4
75°	40.7	43.0	45.1	46.8	48.7	51.3	54.8	57.3	58.4	60.0	60.2
77.5°	30.7	31.3	32.8	34.8	36.5	38.4	40.6	42.9	43.4	44.2	44.8
80°	25.3	25.3	25.3	26.5	28.5	29.9	31.9	33.1	33.9	34.1	34.3
82.5°	20.3	20.3	20.1	20.4	21.1	21.9	23.7	25.1	25.7	25.6	25.1
85°	13.3	12.8	12.8	12.7	12.8	12.4	12.2	13.0	14.2	14.2	13.9
87.5°	11.9	11.5	10.8	10.0	9.0	8.2	7.1	6.6	6.0	6.1	5.4
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°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	471.1	472.9	475.2	478.5	481.1	483.4	483.8	484.5	486.1	488.8	490.9
5°	474.2	478.8	486.2	493.4	501.3	507.7	513.8	518.0	521.9	530.4	537.2
7.5°	473.2	483.5	495.2	508.1	521.2	533.9	545.7	556.3	566.8	579.1	593.1
10°	472.6	484.7	500.3	516.9	535.2	553.0	570.3	583.8	599.3	613.5	631.3
12.5°	469.6	486.9	505.6	526.8	549.3	569.9	592.6	611.1	629.0	649.4	670.1
15°	465.5	486.6	510.3	538.6	572.7	597.5	620.9	653.2	675.2	697.2	726.9
17.5°	458.3	484.1	513.6	550.4	578.8	612.3	647.2	672.8	702.5	733.6	760.4
20°	452.5	482.4	515.6	551.6	588.0	624.2	658.1	688.6	719.4	755.3	777.3
22.5°	446.8	476.3	510.7	549.1	588.1	626.4	664.7	700.5	735.0	771.3	799.4
25°	434.5	469.6	506.9	546.0	584.5	626.6	672.4	712.3	755.0	792.4	819.1
27.5°	422.1	454.3	491.4	531.1	573.9	623.6	677.4	722.8	765.6	792.4	800.7
30°	410.8	444.9	479.1	519.4	565.7	621.2	678.4	730.4	765.4	777.1	768.4
32.5°	399.4	430.3	464.1	505.4	554.6	615.3	679.7	725.9	747.0	738.1	703.0
35°	379.4	407.2	439.9	481.2	537.8	612.0	674.4	705.7	700.5	650.3	584.1
37.5°	357.8	380.6	410.8	454.0	520.4	599.0	651.6	656.3	611.1	534.1	457.6
40°	340.8	361.3	392.4	437.5	506.9	586.2	628.7	610.0	540.0	454.3	390.5
42.5°	324.3	341.6	371.5	420.2	494.0	568.6	594.5	553.9	473.1	392.1	334.1
45°	296.3	312.5	342.6	392.5	467.8	535.2	531.8	461.2	380.3	315.1	267.0
47.5°	269.8	284.0	312.2	363.2	437.0	485.0	453.1	378.0	309.4	257.1	222.7
50°	251.0	265.0	293.1	343.5	412.2	447.3	401.8	329.4	266.6	223.3	196.0
52.5°	233.0	246.7	272.3	321.4	382.4	403.4	354.5	287.3	235.0	197.6	174.2
55°	207.8	218.3	241.3	288.3	333.8	338.6	289.0	232.9	189.8	163.7	147.7
57.5°	182.2	191.1	214.0	251.3	283.3	280.8	233.8	185.2	156.2	136.8	125.2
60°	165.5	174.4	194.4	226.4	250.6	242.1	199.0	159.9	135.0	120.8	111.5
62.5°	149.9	156.8	175.6	199.1	216.4	206.8	170.1	137.8	118.0	106.0	98.7
65°	127.3	133.0	148.0	160.3	169.9	160.7	130.2	107.7	93.5	85.1	80.1
67.5°	106.0	109.5	119.0	123.5	130.3	120.1	97.9	82.8	74.7	67.7	64.1
70°	92.5	95.1	100.1	103.8	105.5	95.1	78.6	67.6	60.8	55.8	53.6
72.5°	79.0	81.3	82.3	85.2	84.3	74.6	63.2	54.4	49.5	46.1	43.3
75°	60.4	61.4	60.4	59.2	56.6	49.8	41.9	37.5	33.9	32.3	31.3
77.5°	44.0	43.7	42.4	40.5	36.0	31.7	27.5	26.0	24.5	23.6	23.2
80°	33.9	33.1	31.9	28.8	25.1	22.0	21.1	20.1	19.5	18.4	18.3
82.5°	25.2	24.7	22.7	20.2	17.6	16.1	15.3	14.9	14.3	13.8	13.8
85°	13.4	12.8	10.6	9.2	8.9	8.4	8.3	8.3	7.4	7.2	7.2
87.5°	5.2	4.7	5.2	5.3	5.9	6.4	7.2	7.7	8.3	8.7	8.5
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°	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	494.3	494.3	494.9	497.3	497.7	499.7	499.1
5°	543.2	547.0	548.5	554.5	558.0	559.6	556.5
7.5°	603.0	613.8	618.9	625.3	630.8	632.5	628.1
10°	646.7	658.0	667.4	673.2	678.6	682.3	686.8
12.5°	688.9	702.7	711.7	719.9	725.5	730.0	730.8
15°	734.8	755.6	771.5	783.2	788.9	791.9	790.7
17.5°	781.0	800.4	811.7	823.5	831.6	832.0	832.2
20°	807.2	826.0	839.1	847.9	857.0	856.5	858.6
22.5°	824.7	839.6	849.5	855.9	859.0	857.5	857.9
25°	832.8	837.3	835.5	825.3	822.6	813.2	814.9
27.5°	790.7	769.8	748.2	720.5	698.5	681.1	681.9
30°	733.4	696.5	654.4	619.1	587.4	578.5	559.6
32.5°	653.3	598.0	548.6	515.7	488.5	481.1	464.7
35°	517.5	463.7	413.0	382.5	370.5	353.6	353.4
37.5°	402.3	354.9	328.1	305.2	293.3	283.0	282.1
40°	338.4	301.5	281.2	264.8	253.0	245.3	243.5
42.5°	293.8	264.0	245.0	234.8	225.7	221.7	218.8
45°	239.9	219.8	206.6	197.4	193.2	190.2	188.6
47.5°	200.7	187.3	178.2	172.0	168.7	165.5	166.3
50°	179.3	168.3	161.7	155.8	153.3	151.0	151.3
52.5°	162.1	152.2	146.9	142.7	139.5	137.8	137.2
55°	137.6	131.4	126.0	123.0	121.1	119.0	118.4
57.5°	117.4	112.5	108.1	104.8	104.3	102.2	102.5
60°	103.9	99.9	96.3	94.5	93.1	91.3	91.9
62.5°	92.8	89.5	86.2	84.7	83.3	82.0	82.2
65°	76.0	72.8	70.8	70.0	69.4	68.8	68.2
67.5°	60.6	58.6	57.3	55.6	54.4	54.2	53.6
70°	51.0	48.3	46.1	43.9	43.3	43.1	43.3
72.5°	40.8	39.2	38.6	37.5	37.4	36.9	37.2
75°	30.7	30.0	29.7	28.8	28.8	28.8	28.8
77.5°	22.6	22.3	22.0	21.9	21.7	21.4	21.4
80°	17.7	17.5	17.0	17.0	16.9	17.0	16.9
82.5°	13.3	13.3	12.9	12.9	12.7	12.6	12.7
85°	6.8	6.6	7.1	6.6	6.8	6.5	6.8
87.5°	8.8	9.0	9.0	9.1	9.1	9.6	9.3
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)