

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: P333027-940

Luminaire Tested: **S124RDIW-S350D1340U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333027-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S350D1340U940-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1340 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6111.9 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

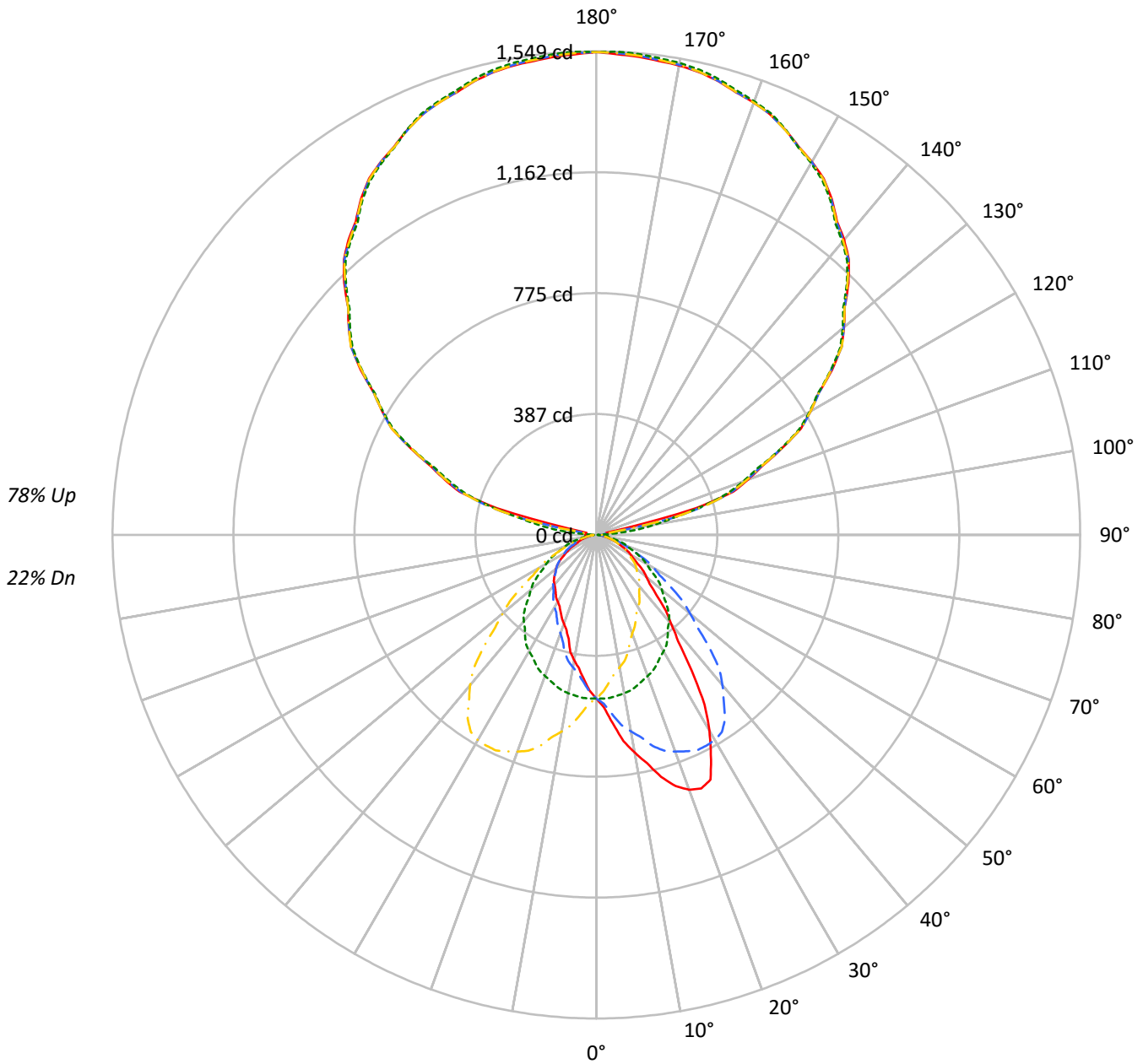
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	88	84	81	81	78	75	72	59	57	56	42	41	40	27	26	26	19
2	84	77	71	66	74	68	63	59	52	49	46	37	36	34	24	23	22	16
3	76	67	61	55	67	60	54	50	46	42	39	33	31	29	21	20	19	14
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	40	56	47	41	36	37	32	29	27	24	21	17	16	14	10
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	9
7	54	43	35	30	48	38	32	27	30	25	22	22	19	16	14	13	11	8
8	50	39	31	26	44	35	28	24	27	22	19	20	17	15	13	11	10	7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	21	39	29	23	19	23	18	15	17	14	12	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4229	4229	4229	4229
5°	4905	4241	3749	4241
10°	5802	4223	3345	4223
15°	6702	4184	2875	4184
20°	7462	4130	2600	4130
25°	7704	4077	2414	4077
30°	6743	4013	2302	4013
35°	5249	3918	2234	3918
40°	3936	3810	2197	3810
45°	3108	3635	2177	3635
50°	2624	3435	2115	3435
55°	2287	3215	2001	3215
60°	2057	2985	1773	2985
65°	1815	2737	1524	2737
70°	1633	2481	1374	2481
75°	1369	2196	1170	2196
80°	1158	1874	1097	1874
85°	973	1473	973	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	0.8
10°-20°	153.1	2.5
20°-30°	239.4	3.9
30°-40°	266.2	4.4
40°-50°	236.2	3.9
50°-60°	184.0	3.0
60°-70°	120.5	2.0
70°-80°	59.3	1.0
80°-90°	19.1	0.3
90°-100°	52.9	0.9
100°-110°	337.2	5.5
110°-120°	645.1	10.6
120°-130°	818.9	13.4
130°-140°	876.2	14.3
140°-150°	819.3	13.4
150°-160°	660.7	10.8
160°-170°	426.2	7.0
170°-180°	146.9	2.4
0°-30°	443.3	7.3
0°-40°	709.5	11.6
0°-60°	1129.7	18.5
0°-90°	1328.5	21.7
90°-120°	1035.2	16.9
90°-150°	3549.6	58.1
90°-180°	4783.0	78.3
0°-180°	6111.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	524	524	524	524	524	
5°	605	523	463	523	605	61
15°	802	501	344	501	802	228
25°	865	458	271	458	865	384
35°	533	398	227	398	533	334
45°	272	318	191	318	272	216
55°	162	228	142	228	162	148
65°	95	143	80	143	95	96
75°	44	70	38	70	44	48
85°	10	16	10	16	10	13
90°	35	4	35	4	35	15
95°	34	64	34	64	34	27
105°	330	348	330	348	330	288
115°	655	650	655	650	655	648
125°	921	914	921	914	921	820
135°	1142	1134	1142	1134	1142	879
145°	1314	1307	1314	1307	1314	821
155°	1432	1433	1432	1433	1432	660
165°	1505	1512	1505	1512	1505	425
175°	1537	1546	1537	1546	1537	146
180°	1546	1546	1546	1546	1546	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	552.5	554.0	552.5	552.3	550.6	550.1	549.5	547.2	543.2	540.8	541.4
5°	605.3	610.6	607.6	607.2	602.5	597.9	594.9	588.2	580.9	576.1	572.1
7.5°	666.3	669.3	667.4	664.5	657.0	652.7	645.9	637.0	624.1	614.3	605.3
10°	707.8	710.3	709.5	704.0	698.6	687.3	681.0	668.6	652.3	639.4	627.4
12.5°	748.7	751.4	744.0	744.2	733.8	725.0	715.0	699.3	680.6	664.0	648.9
15°	801.9	798.5	798.5	794.3	782.7	770.5	760.2	743.7	720.1	700.3	679.3
17.5°	843.6	844.8	843.1	833.1	824.0	811.4	792.4	773.2	751.3	724.6	703.3
20°	868.6	868.6	866.7	860.0	848.2	834.6	814.2	793.3	765.4	738.6	714.6
22.5°	878.8	879.4	877.2	871.6	861.0	847.8	830.4	809.1	780.4	750.3	720.5
25°	864.9	868.9	869.2	867.8	864.6	856.6	841.6	819.9	794.2	761.4	729.3
27.5°	794.0	799.1	803.5	810.8	820.6	825.5	826.3	815.2	792.7	761.3	729.0
30°	723.4	727.6	741.4	759.3	773.2	785.9	796.9	799.9	787.2	758.9	725.0
32.5°	645.1	650.9	664.6	683.9	707.0	728.5	753.1	765.7	765.4	748.4	717.0
35°	532.6	536.9	549.6	569.8	597.6	629.5	668.6	698.9	719.6	718.2	698.9
37.5°	429.6	434.4	447.1	464.0	491.0	530.4	568.2	610.1	648.3	669.8	663.3
40°	373.5	373.7	386.2	403.5	428.8	463.2	504.4	550.8	593.4	628.3	635.0
42.5°	329.3	329.3	337.6	356.2	374.4	406.8	446.1	492.2	542.2	582.4	600.2
45°	272.2	274.1	280.9	292.0	306.4	333.9	365.3	408.1	464.0	511.8	541.5
47.5°	230.5	233.4	237.6	246.7	258.2	276.4	302.5	341.0	386.5	438.9	481.3
50°	208.9	209.4	214.8	219.9	229.8	244.4	267.2	299.3	341.1	391.5	438.5
52.5°	190.4	190.3	193.6	200.0	208.0	219.4	237.8	267.0	304.1	349.3	397.9
55°	162.5	163.5	166.1	171.1	177.3	185.3	199.8	221.8	250.9	289.5	333.7
57.5°	141.3	141.9	143.8	146.0	151.6	157.5	168.4	183.6	208.1	239.8	280.9
60°	127.4	127.7	128.3	131.4	135.9	141.4	148.8	161.7	182.4	211.2	243.8
62.5°	114.0	114.3	115.3	117.6	121.1	124.8	132.6	142.9	160.1	184.8	214.0
65°	95.0	95.1	96.7	97.5	100.2	103.6	109.3	116.3	128.1	148.8	170.9
67.5°	79.4	79.4	79.5	80.6	82.5	84.7	88.1	93.7	102.6	115.3	134.8
70°	69.2	69.2	69.6	70.3	71.3	73.2	75.2	79.4	85.9	96.2	111.2
72.5°	59.7	59.9	60.4	60.5	61.0	62.6	64.0	66.7	71.5	79.4	91.5
75°	43.9	44.5	45.6	46.5	47.5	47.3	48.8	50.5	51.9	56.5	63.5
77.5°	32.6	32.4	32.5	33.2	33.3	33.5	34.6	35.8	37.0	39.1	41.6
80°	24.9	24.9	25.5	25.8	25.5	25.8	26.8	27.5	27.8	28.7	31.0
82.5°	18.8	19.2	19.0	19.2	19.3	19.5	20.4	20.5	21.0	21.3	22.2
85°	10.5	10.8	11.0	10.5	10.5	10.5	11.0	11.1	11.6	11.4	11.9
87.5°	10.6	10.3	10.4	10.3	10.4	10.1	9.9	9.9	9.3	9.2	8.7
90°	34.7	34.2	33.7	33.2	32.6	31.7	30.1	28.5	27.0	25.4	23.4
92.5°	31.9	31.8	31.7	31.7	31.5	30.7	29.2	27.6	26.0	24.5	22.5
95°	33.5	33.3	33.0	32.7	32.5	31.7	30.1	28.5	27.0	25.4	25.1
97.5°	32.4	32.1	31.8	31.7	31.4	31.1	31.0	30.9	30.7	30.5	29.2
100°	32.4	32.1	31.8	31.7	31.4	33.4	37.8	42.2	46.5	50.9	86.3
102.5°	33.3	33.3	33.2	33.2	33.1	56.6	103.8	151.0	198.0	245.2	249.9
105°	329.7	338.9	348.1	357.4	366.7	370.1	367.8	365.5	363.2	360.9	359.5
107.5°	459.4	458.4	457.4	456.5	455.5	454.4	453.3	452.2	451.0	450.0	448.2
110°	515.9	515.1	514.3	513.5	512.7	512.1	511.6	511.1	510.6	510.1	508.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	572.3	571.3	570.3	569.4	568.4	567.9	568.0	568.1	568.3	568.4	567.7
115°	654.6	654.6	654.6	654.6	654.6	654.3	653.9	653.4	652.8	652.3	652.6
117.5°	738.3	738.5	738.6	738.7	738.8	738.9	739.0	739.0	739.2	739.3	738.7
120°	791.1	791.7	792.1	792.6	793.2	793.2	792.6	792.1	791.7	791.1	791.4
122.5°	842.9	843.5	843.9	844.5	845.0	845.1	844.8	844.5	844.2	843.8	843.5
125°	920.7	920.4	920.2	919.9	919.6	919.1	918.4	917.6	916.8	916.1	916.5
127.5°	988.9	989.1	989.3	989.5	989.7	989.9	990.1	990.2	990.3	990.5	989.4
130°	1035.2	1035.2	1035.2	1035.2	1035.2	1035.0	1034.7	1034.5	1034.3	1034.0	1033.2
132.5°	1077.7	1077.9	1078.2	1078.3	1078.5	1078.5	1078.3	1078.0	1077.7	1077.5	1076.5
135°	1141.6	1141.0	1140.5	1140.1	1139.5	1139.0	1138.4	1138.0	1137.5	1136.9	1136.0
137.5°	1196.1	1196.3	1196.5	1196.6	1196.8	1196.6	1196.0	1195.4	1194.9	1194.3	1193.2
140°	1234.1	1233.9	1233.6	1233.3	1233.1	1232.5	1231.8	1231.0	1230.2	1229.5	1229.0
142.5°	1265.5	1265.5	1265.4	1265.4	1265.3	1265.1	1264.4	1263.9	1263.4	1262.8	1262.5
145°	1313.9	1313.4	1312.9	1312.3	1311.9	1311.4	1311.2	1310.9	1310.7	1310.5	1310.5
147.5°	1353.9	1353.6	1353.4	1353.2	1352.9	1352.6	1352.5	1352.3	1352.0	1351.8	1352.1
150°	1379.8	1379.6	1379.3	1379.0	1378.8	1378.7	1378.7	1378.7	1378.7	1378.7	1378.9
152.5°	1402.0	1402.2	1402.3	1402.5	1402.7	1402.5	1402.1	1401.7	1401.3	1400.9	1401.3
155°	1431.9	1432.6	1433.4	1434.2	1434.9	1434.9	1433.8	1432.8	1431.7	1430.7	1431.5
157.5°	1456.9	1458.2	1459.6	1460.9	1462.2	1462.2	1460.9	1459.6	1458.2	1456.9	1457.8
160°	1473.6	1475.1	1476.6	1478.1	1479.7	1479.7	1478.1	1476.6	1475.1	1473.6	1473.7
162.5°	1486.5	1488.2	1490.0	1491.7	1493.4	1493.5	1492.0	1490.5	1488.9	1487.4	1487.6
165°	1504.8	1507.1	1509.4	1511.7	1513.9	1514.1	1512.1	1510.0	1508.0	1505.9	1505.9
167.5°	1518.4	1521.0	1523.5	1526.1	1528.7	1528.8	1526.5	1524.3	1522.1	1519.7	1519.9
170°	1526.7	1529.3	1531.9	1534.5	1537.0	1537.2	1535.2	1533.1	1531.1	1529.0	1528.7
172.5°	1531.3	1534.1	1536.9	1539.6	1542.5	1542.8	1540.8	1538.6	1536.6	1534.5	1534.3
175°	1537.1	1540.2	1543.3	1546.4	1549.4	1549.9	1547.6	1545.2	1542.9	1540.6	1540.3
177.5°	1540.8	1543.3	1545.8	1548.2	1550.7	1551.1	1549.4	1547.8	1546.1	1544.5	1544.1
180°	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	539.7	537.3	536.1	533.4	530.2	528.5	527.0	524.8	521.9	518.9	516.7
5°	567.0	562.0	555.6	548.0	541.4	534.8	529.1	523.3	516.8	510.1	503.4
7.5°	595.1	585.2	574.4	562.0	549.9	538.9	528.7	519.1	508.1	498.2	489.3
10°	614.7	601.3	586.3	570.4	554.6	540.9	527.4	515.1	501.7	489.6	479.5
12.5°	630.6	614.7	596.7	577.0	557.9	541.4	525.8	509.9	494.5	481.5	468.0
15°	656.9	635.3	611.0	587.3	562.7	540.0	519.2	500.6	483.0	464.7	451.8
17.5°	675.1	649.3	619.7	591.4	562.2	535.6	511.5	489.4	469.1	450.4	435.1
20°	685.9	657.4	624.6	592.4	559.6	531.2	505.2	480.7	459.9	439.6	423.7
22.5°	692.0	660.4	624.6	590.8	557.0	526.1	497.7	472.2	449.4	429.1	411.6
25°	693.9	660.1	623.7	584.8	547.7	515.0	485.4	457.7	432.4	412.1	393.6
27.5°	691.2	651.4	614.0	574.2	535.8	501.4	470.4	441.3	416.0	394.2	375.1
30°	687.2	644.5	604.4	563.0	524.2	491.1	458.3	430.5	404.1	381.6	362.4
32.5°	678.3	636.1	592.9	550.5	511.2	477.1	446.0	418.0	392.2	369.1	348.7
35°	660.9	618.1	571.3	527.8	489.2	453.7	424.6	397.6	372.9	348.2	326.7
37.5°	638.0	594.3	547.7	500.1	461.4	427.9	401.3	375.9	351.8	329.2	305.4
40°	616.4	576.6	528.4	481.2	441.5	409.2	384.5	361.5	337.2	314.9	291.1
42.5°	590.3	556.3	507.7	460.2	421.1	389.9	366.9	344.5	322.4	300.7	275.8
45°	546.6	520.8	475.3	429.7	390.2	359.4	338.3	318.4	299.1	278.4	254.9
47.5°	496.5	479.1	439.8	393.1	356.6	328.9	308.4	292.2	275.8	255.1	234.6
50°	461.7	450.6	412.6	370.0	335.1	309.6	288.7	273.5	259.8	240.0	221.6
52.5°	424.6	418.7	386.6	345.8	312.2	287.1	269.3	255.7	241.7	225.2	208.1
55°	368.0	371.2	344.0	308.7	277.1	256.0	239.8	228.4	216.5	202.6	189.3
57.5°	310.2	321.8	303.5	272.6	242.9	223.4	211.2	201.6	191.6	180.1	168.7
60°	275.6	285.3	275.0	247.7	221.8	203.7	192.3	184.9	175.0	164.4	155.8
62.5°	241.8	252.3	246.1	224.1	200.0	184.4	174.3	167.5	160.1	150.9	141.9
65°	199.5	206.2	203.2	188.1	170.9	157.7	148.4	143.3	136.5	129.8	121.8
67.5°	152.8	165.8	164.1	156.0	141.2	130.8	124.8	120.3	114.1	109.1	103.7
70°	125.6	137.6	137.4	130.8	122.8	113.2	108.9	105.1	99.6	94.8	90.3
72.5°	102.8	113.8	115.5	110.4	105.0	97.6	93.5	91.0	85.6	82.3	78.6
75°	72.0	80.0	82.1	82.1	79.5	75.8	72.1	70.4	66.7	63.8	61.6
77.5°	47.2	52.3	55.6	56.3	56.7	55.4	52.4	51.3	48.3	47.3	45.3
80°	33.3	36.7	40.5	41.8	42.8	42.4	41.2	40.3	37.5	36.5	35.7
82.5°	23.0	24.9	28.0	30.9	30.5	31.7	30.5	29.9	27.7	27.4	26.6
85°	12.0	12.2	12.7	14.5	15.6	16.1	16.2	15.9	15.2	15.2	13.7
87.5°	8.3	7.8	7.7	7.1	6.8	6.9	6.9	6.4	6.5	6.5	6.6
90°	21.3	19.3	17.2	14.8	11.9	9.1	6.3	3.5	6.3	9.1	11.9
92.5°	20.4	18.4	16.3	15.2	15.1	14.9	14.7	14.5	14.7	14.9	15.1
95°	25.0	24.7	24.4	28.6	37.4	46.1	54.8	63.6	54.8	46.1	37.4
97.5°	87.9	116.5	145.3	156.9	151.4	146.0	140.5	135.1	140.5	146.0	151.4
100°	121.8	157.3	192.8	208.2	203.6	198.9	194.3	189.7	194.3	198.9	203.6
102.5°	254.5	259.0	263.7	264.3	260.9	257.5	254.1	250.7	254.1	257.5	260.9
105°	358.3	357.0	355.7	354.3	352.8	351.2	349.6	348.1	349.6	351.2	352.8
107.5°	446.4	444.7	442.9	441.7	440.9	440.1	439.3	438.5	439.3	440.1	440.9
110°	506.9	505.4	503.9	502.7	501.9	501.2	500.4	499.6	500.4	501.2	501.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	566.9	566.2	565.4	564.5	563.0	561.7	560.3	558.8	560.3	561.7	563.0
115°	652.8	653.1	653.4	653.1	652.3	651.6	650.8	650.0	650.8	651.6	652.3
117.5°	738.2	737.6	737.0	736.2	735.2	734.1	733.2	732.1	733.2	734.1	735.2
120°	791.7	791.9	792.1	791.8	790.8	789.7	788.6	787.6	788.6	789.7	790.8
122.5°	843.1	842.8	842.4	842.0	841.3	840.7	840.1	839.5	840.1	840.7	841.3
125°	917.0	917.6	918.1	917.8	916.8	915.8	914.7	913.7	914.7	915.8	916.8
127.5°	988.1	986.9	985.8	985.1	984.8	984.5	984.3	984.0	984.3	984.5	984.8
130°	1032.4	1031.7	1030.9	1030.4	1030.1	1029.9	1029.7	1029.4	1029.7	1029.9	1030.1
132.5°	1075.5	1074.6	1073.6	1072.8	1072.4	1071.9	1071.5	1071.0	1071.5	1071.9	1072.4
135°	1134.9	1133.8	1132.8	1132.5	1132.7	1132.9	1133.2	1133.5	1133.2	1132.9	1132.7
137.5°	1192.0	1190.9	1189.8	1189.2	1189.1	1188.9	1188.8	1188.7	1188.8	1188.9	1189.1
140°	1228.4	1227.9	1227.4	1226.9	1226.4	1225.8	1225.4	1224.9	1225.4	1225.8	1226.4
142.5°	1262.1	1261.9	1261.5	1261.0	1260.0	1259.1	1258.1	1257.2	1258.1	1259.1	1260.0
145°	1310.5	1310.5	1310.5	1310.0	1309.3	1308.5	1307.7	1307.0	1307.7	1308.5	1309.3
147.5°	1352.4	1352.6	1352.9	1352.3	1350.9	1349.4	1347.9	1346.5	1347.9	1349.4	1350.9
150°	1379.2	1379.5	1379.7	1379.3	1378.3	1377.2	1376.3	1375.2	1376.3	1377.2	1378.3
152.5°	1401.8	1402.3	1402.8	1402.6	1401.7	1400.9	1400.1	1399.3	1400.1	1400.9	1401.7
155°	1432.3	1433.1	1433.8	1434.0	1433.8	1433.5	1433.2	1433.1	1433.2	1433.5	1433.8
157.5°	1458.6	1459.5	1460.4	1460.9	1461.0	1461.2	1461.3	1461.5	1461.3	1461.2	1461.0
160°	1474.0	1474.3	1474.5	1475.1	1475.8	1476.6	1477.4	1478.1	1477.4	1476.6	1475.8
162.5°	1487.9	1488.2	1488.4	1489.1	1490.0	1491.0	1491.9	1492.9	1491.9	1491.0	1490.0
165°	1505.9	1505.9	1505.9	1506.5	1507.8	1509.1	1510.4	1511.7	1510.4	1509.1	1507.8
167.5°	1520.1	1520.3	1520.4	1521.2	1522.5	1523.8	1525.2	1526.5	1525.2	1523.8	1522.5
170°	1528.5	1528.2	1528.0	1528.7	1530.2	1531.7	1533.3	1534.8	1533.3	1531.7	1530.2
172.5°	1534.1	1533.8	1533.6	1534.2	1535.7	1537.3	1538.8	1540.3	1538.8	1537.3	1535.7
175°	1540.1	1539.8	1539.5	1540.2	1541.8	1543.3	1544.8	1546.4	1544.8	1543.3	1541.8
177.5°	1543.7	1543.3	1542.8	1543.4	1544.8	1546.2	1547.7	1549.2	1547.7	1546.2	1544.8
180°	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	514.3	512.6	510.5	507.9	504.9	502.2	501.0	502.0	502.6	501.1	501.0
5°	498.6	493.4	489.2	482.9	477.8	473.6	470.6	469.3	469.8	466.4	465.6
7.5°	481.1	474.8	467.9	460.4	453.4	447.2	444.0	442.2	438.5	437.0	434.4
10°	469.8	461.4	454.6	445.7	437.7	430.3	426.7	423.7	420.2	418.5	414.9
12.5°	458.2	448.4	440.9	431.7	423.5	414.6	411.2	405.7	400.1	396.5	391.9
15°	441.7	429.9	420.8	409.8	400.1	390.0	380.9	370.8	367.0	359.0	354.4
17.5°	422.5	410.5	399.3	384.6	369.6	357.0	347.3	337.6	331.8	326.7	324.3
20°	409.8	398.9	383.3	366.1	349.5	335.6	327.7	321.4	315.0	311.5	309.0
22.5°	397.9	383.8	365.7	347.2	330.6	319.7	313.1	306.6	301.4	298.0	294.6
25°	377.7	359.4	340.2	319.1	307.7	298.2	291.1	285.7	282.6	278.1	276.4
27.5°	357.1	334.8	313.7	299.5	287.7	278.9	272.7	268.8	264.7	261.9	259.7
30°	341.3	318.7	299.7	286.1	274.1	267.0	261.9	257.3	254.0	251.7	250.1
32.5°	325.6	303.0	287.0	272.5	263.0	256.0	250.6	247.1	244.6	241.7	240.6
35°	302.8	282.8	268.9	255.7	246.1	239.8	235.5	231.9	229.8	229.0	228.4
37.5°	281.0	264.6	249.6	238.9	230.2	225.2	220.3	218.5	217.0	215.5	216.2
40°	267.2	251.7	238.4	227.1	220.1	214.6	211.7	209.6	208.3	208.3	208.3
42.5°	255.2	240.1	227.1	217.0	210.0	205.4	202.1	200.3	199.8	199.7	200.7
45°	236.6	222.7	209.6	201.1	195.2	190.6	188.7	187.2	187.2	188.1	188.2
47.5°	218.1	205.1	194.6	185.1	179.7	176.8	175.1	174.4	174.5	175.3	176.3
50°	206.8	193.9	183.6	175.1	170.1	167.4	165.9	165.4	165.9	165.9	167.4
52.5°	194.5	183.0	172.8	165.7	160.0	157.4	156.6	156.0	156.2	156.9	157.6
55°	176.5	166.1	156.4	149.6	145.4	143.7	141.8	142.0	141.6	142.0	142.0
57.5°	158.3	149.0	140.0	134.6	130.9	128.5	126.4	127.0	126.4	126.3	125.9
60°	146.7	136.5	129.4	124.5	120.3	118.2	116.3	116.7	116.1	115.7	114.8
62.5°	134.0	125.6	118.7	114.0	110.7	108.3	106.3	105.9	104.4	103.0	101.1
65°	115.7	108.7	102.5	98.2	95.0	93.1	91.6	90.3	87.1	83.8	82.1
67.5°	97.8	92.7	87.0	83.3	80.7	78.3	75.4	73.3	70.4	68.5	67.4
70°	86.3	81.5	76.6	73.0	70.3	67.9	64.8	63.3	61.2	60.4	59.3
72.5°	75.3	70.8	66.3	63.0	60.2	58.3	55.8	54.4	53.4	53.1	52.1
75°	58.7	55.1	51.7	48.8	46.5	45.1	44.1	43.1	42.6	40.8	39.7
77.5°	42.8	40.4	38.3	36.2	34.6	33.7	31.7	30.5	29.8	28.9	28.6
80°	33.3	31.7	29.5	28.3	25.9	25.1	24.3	24.1	23.8	23.6	23.5
82.5°	25.1	23.4	21.3	20.5	19.9	19.4	18.9	18.6	18.5	18.5	18.5
85°	12.7	11.9	11.9	11.6	11.4	11.1	11.0	11.0	10.8	11.0	10.8
87.5°	7.1	7.5	7.9	8.0	8.6	9.0	9.1	9.5	9.9	9.9	10.1
90°	14.8	17.2	19.3	21.3	23.4	25.4	27.0	28.5	30.1	31.7	32.6
92.5°	15.2	16.3	18.4	20.4	22.5	24.5	26.0	27.6	29.2	30.7	31.5
95°	28.6	24.4	24.7	25.0	25.1	25.4	27.0	28.5	30.1	31.7	32.5
97.5°	156.9	145.3	116.5	87.9	59.2	30.5	30.7	30.9	31.0	31.1	31.4
100°	208.2	192.8	157.3	121.8	86.3	50.9	46.5	42.2	37.8	33.4	31.4
102.5°	264.3	263.7	259.0	254.5	249.9	245.2	198.0	151.0	103.8	56.6	33.1
105°	354.3	355.7	357.0	358.3	359.5	360.9	363.2	365.5	367.8	370.1	366.7
107.5°	441.7	442.9	444.7	446.4	448.2	450.0	451.0	452.2	453.3	454.4	455.5
110°	502.7	503.9	505.4	506.9	508.5	510.1	510.6	511.1	511.6	512.1	512.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	564.5	565.4	566.2	566.9	567.7	568.4	568.3	568.1	568.0	567.9	568.4
115°	653.1	653.4	653.1	652.8	652.6	652.3	652.8	653.4	653.9	654.3	654.6
117.5°	736.2	737.0	737.6	738.2	738.7	739.3	739.2	739.0	739.0	738.9	738.8
120°	791.8	792.1	791.9	791.7	791.4	791.1	791.7	792.1	792.6	793.2	793.2
122.5°	842.0	842.4	842.8	843.1	843.5	843.8	844.2	844.5	844.8	845.1	845.0
125°	917.8	918.1	917.6	917.0	916.5	916.1	916.8	917.6	918.4	919.1	919.6
127.5°	985.1	985.8	986.9	988.1	989.4	990.5	990.3	990.2	990.1	989.9	989.7
130°	1030.4	1030.9	1031.7	1032.4	1033.2	1034.0	1034.3	1034.5	1034.7	1035.0	1035.2
132.5°	1072.8	1073.6	1074.6	1075.5	1076.5	1077.5	1077.7	1078.0	1078.3	1078.5	1078.5
135°	1132.5	1132.8	1133.8	1134.9	1136.0	1136.9	1137.5	1138.0	1138.4	1139.0	1139.5
137.5°	1189.2	1189.8	1190.9	1192.0	1193.2	1194.3	1194.9	1195.4	1196.0	1196.6	1196.8
140°	1226.9	1227.4	1227.9	1228.4	1229.0	1229.5	1230.2	1231.0	1231.8	1232.5	1233.1
142.5°	1261.0	1261.5	1261.9	1262.1	1262.5	1262.8	1263.4	1263.9	1264.4	1265.1	1265.3
145°	1310.0	1310.5	1310.5	1310.5	1310.5	1310.5	1310.7	1310.9	1311.2	1311.4	1311.9
147.5°	1352.3	1352.9	1352.6	1352.4	1352.1	1351.8	1352.0	1352.3	1352.5	1352.6	1352.9
150°	1379.3	1379.7	1379.5	1379.2	1378.9	1378.7	1378.7	1378.7	1378.7	1378.7	1378.8
152.5°	1402.6	1402.8	1402.3	1401.8	1401.3	1400.9	1401.3	1401.7	1402.1	1402.5	1402.7
155°	1434.0	1433.8	1433.1	1432.3	1431.5	1430.7	1431.7	1432.8	1433.8	1434.9	1434.9
157.5°	1460.9	1460.4	1459.5	1458.6	1457.8	1456.9	1458.2	1459.6	1460.9	1462.2	1462.2
160°	1475.1	1474.5	1474.3	1474.0	1473.7	1473.6	1475.1	1476.6	1478.1	1479.7	1479.7
162.5°	1489.1	1488.4	1488.2	1487.9	1487.6	1487.4	1488.9	1490.5	1492.0	1493.5	1493.4
165°	1506.5	1505.9	1505.9	1505.9	1505.9	1505.9	1508.0	1510.0	1512.1	1514.1	1513.9
167.5°	1521.2	1520.4	1520.3	1520.1	1519.9	1519.7	1522.1	1524.3	1526.5	1528.8	1528.7
170°	1528.7	1528.0	1528.2	1528.5	1528.7	1529.0	1531.1	1533.1	1535.2	1537.2	1537.0
172.5°	1534.2	1533.6	1533.8	1534.1	1534.3	1534.5	1536.6	1538.6	1540.8	1542.8	1542.5
175°	1540.2	1539.5	1539.8	1540.1	1540.3	1540.6	1542.9	1545.2	1547.6	1549.9	1549.4
177.5°	1543.4	1542.8	1543.3	1543.7	1544.1	1544.5	1546.1	1547.8	1549.4	1551.1	1550.7
180°	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	500.0	500.3	499.2	498.8	499.2	500.3	500.0	501.0	501.1	502.6	502.0
5°	463.9	463.4	462.4	462.6	462.4	463.4	463.9	465.6	466.4	469.8	469.3
7.5°	432.9	431.3	431.8	430.1	431.8	431.3	432.9	434.4	437.0	438.5	442.2
10°	414.0	411.7	409.8	408.1	409.8	411.7	414.0	414.9	418.5	420.2	423.7
12.5°	388.3	386.2	383.7	384.1	383.7	386.2	388.3	391.9	396.5	400.1	405.7
15°	351.6	348.4	343.4	344.0	343.4	348.4	351.6	354.4	359.0	367.0	370.8
17.5°	320.6	320.6	318.3	318.9	318.3	320.6	320.6	324.3	326.7	331.8	337.6
20°	304.5	303.1	303.3	302.6	303.3	303.1	304.5	309.0	311.5	315.0	321.4
22.5°	293.4	291.6	290.1	288.8	290.1	291.6	293.4	294.6	298.0	301.4	306.6
25°	274.6	273.3	271.4	271.0	271.4	273.3	274.6	276.4	278.1	282.6	285.7
27.5°	258.0	257.8	257.0	256.0	257.0	257.8	258.0	259.7	261.9	264.7	268.8
30°	248.4	248.0	247.5	246.9	247.5	248.0	248.4	250.1	251.7	254.0	257.3
32.5°	239.8	239.5	239.1	239.2	239.1	239.5	239.8	240.6	241.7	244.6	247.1
35°	227.5	227.3	226.9	226.7	226.9	227.3	227.5	228.4	229.0	229.8	231.9
37.5°	216.1	216.6	216.3	216.2	216.3	216.6	216.1	216.2	215.5	217.0	218.5
40°	208.1	208.3	208.7	208.5	208.7	208.3	208.1	208.3	208.3	208.3	209.6
42.5°	201.5	201.5	202.2	201.4	202.2	201.5	201.5	200.7	199.7	199.8	200.3
45°	189.8	191.0	190.7	190.7	190.7	191.0	189.8	188.2	188.1	187.2	187.2
47.5°	176.8	178.0	178.3	178.2	178.3	178.0	176.8	176.3	175.3	174.5	174.4
50°	168.4	168.0	168.6	168.4	168.6	168.0	168.4	167.4	165.9	165.9	165.4
52.5°	158.1	158.2	158.2	157.9	158.2	158.2	158.1	157.6	156.9	156.2	156.0
55°	142.2	142.5	142.0	142.2	142.0	142.5	142.2	142.0	142.0	141.6	142.0
57.5°	125.0	124.0	124.4	123.9	124.4	124.0	125.0	125.9	126.3	126.4	127.0
60°	112.7	111.0	110.6	109.8	110.6	111.0	112.7	114.8	115.7	116.1	116.7
62.5°	98.9	97.6	96.2	96.9	96.2	97.6	98.9	101.1	103.0	104.4	105.9
65°	80.4	79.5	78.9	79.8	78.9	79.5	80.4	82.1	83.8	87.1	90.3
67.5°	66.5	66.1	66.1	65.7	66.1	66.1	66.5	67.4	68.5	70.4	73.3
70°	59.3	58.7	58.7	58.2	58.7	58.7	59.3	59.3	60.4	61.2	63.3
72.5°	51.9	51.3	51.5	51.2	51.5	51.3	51.9	52.1	53.1	53.4	54.4
75°	38.4	37.4	37.4	37.5	37.4	37.4	38.4	39.7	40.8	42.6	43.1
77.5°	28.6	28.4	28.7	28.4	28.7	28.4	28.6	28.6	28.9	29.8	30.5
80°	23.5	23.2	23.0	23.6	23.0	23.2	23.5	23.5	23.6	23.8	24.1
82.5°	18.2	18.2	18.1	18.9	18.1	18.2	18.2	18.5	18.5	18.5	18.6
85°	11.0	10.5	11.0	10.5	11.0	10.5	11.0	10.8	11.0	10.8	11.0
87.5°	10.5	10.4	10.3	10.6	10.3	10.4	10.5	10.1	9.9	9.9	9.5
90°	33.2	33.7	34.2	34.7	34.2	33.7	33.2	32.6	31.7	30.1	28.5
92.5°	31.7	31.7	31.8	31.9	31.8	31.7	31.7	31.5	30.7	29.2	27.6
95°	32.7	33.0	33.3	33.5	33.3	33.0	32.7	32.5	31.7	30.1	28.5
97.5°	31.7	31.8	32.1	32.4	32.1	31.8	31.7	31.4	31.1	31.0	30.9
100°	31.7	31.8	32.1	32.4	32.1	31.8	31.7	31.4	33.4	37.8	42.2
102.5°	33.2	33.2	33.3	33.3	33.3	33.2	33.2	33.1	56.6	103.8	151.0
105°	357.4	348.1	338.9	329.7	338.9	348.1	357.4	366.7	370.1	367.8	365.5
107.5°	456.5	457.4	458.4	459.4	458.4	457.4	456.5	455.5	454.4	453.3	452.2
110°	513.5	514.3	515.1	515.9	515.1	514.3	513.5	512.7	512.1	511.6	511.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	569.4	570.3	571.3	572.3	571.3	570.3	569.4	568.4	567.9	568.0	568.1
115°	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.3	653.9	653.4
117.5°	738.7	738.6	738.5	738.3	738.5	738.6	738.7	738.8	738.9	739.0	739.0
120°	792.6	792.1	791.7	791.1	791.7	792.1	792.6	793.2	793.2	792.6	792.1
122.5°	844.5	843.9	843.5	842.9	843.5	843.9	844.5	845.0	845.1	844.8	844.5
125°	919.9	920.2	920.4	920.7	920.4	920.2	919.9	919.6	919.1	918.4	917.6
127.5°	989.5	989.3	989.1	988.9	989.1	989.3	989.5	989.7	989.9	990.1	990.2
130°	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.0	1034.7	1034.5
132.5°	1078.3	1078.2	1077.9	1077.7	1077.9	1078.2	1078.3	1078.5	1078.5	1078.3	1078.0
135°	1140.1	1140.5	1141.0	1141.6	1141.0	1140.5	1140.1	1139.5	1139.0	1138.4	1138.0
137.5°	1196.6	1196.5	1196.3	1196.1	1196.3	1196.5	1196.6	1196.8	1196.6	1196.0	1195.4
140°	1233.3	1233.6	1233.9	1234.1	1233.9	1233.6	1233.3	1233.1	1232.5	1231.8	1231.0
142.5°	1265.4	1265.4	1265.5	1265.5	1265.5	1265.4	1265.4	1265.3	1265.1	1264.4	1263.9
145°	1312.3	1312.9	1313.4	1313.9	1313.4	1312.9	1312.3	1311.9	1311.4	1311.2	1310.9
147.5°	1353.2	1353.4	1353.6	1353.9	1353.6	1353.4	1353.2	1352.9	1352.6	1352.5	1352.3
150°	1379.0	1379.3	1379.6	1379.8	1379.6	1379.3	1379.0	1378.8	1378.7	1378.7	1378.7
152.5°	1402.5	1402.3	1402.2	1402.0	1402.2	1402.3	1402.5	1402.7	1402.5	1402.1	1401.7
155°	1434.2	1433.4	1432.6	1431.9	1432.6	1433.4	1434.2	1434.9	1434.9	1433.8	1432.8
157.5°	1460.9	1459.6	1458.2	1456.9	1458.2	1459.6	1460.9	1462.2	1462.2	1460.9	1459.6
160°	1478.1	1476.6	1475.1	1473.6	1475.1	1476.6	1478.1	1479.7	1479.7	1478.1	1476.6
162.5°	1491.7	1490.0	1488.2	1486.5	1488.2	1490.0	1491.7	1493.4	1493.5	1492.0	1490.5
165°	1511.7	1509.4	1507.1	1504.8	1507.1	1509.4	1511.7	1513.9	1514.1	1512.1	1510.0
167.5°	1526.1	1523.5	1521.0	1518.4	1521.0	1523.5	1526.1	1528.7	1528.8	1526.5	1524.3
170°	1534.5	1531.9	1529.3	1526.7	1529.3	1531.9	1534.5	1537.0	1537.2	1535.2	1533.1
172.5°	1539.6	1536.9	1534.1	1531.3	1534.1	1536.9	1539.6	1542.5	1542.8	1540.8	1538.6
175°	1546.4	1543.3	1540.2	1537.1	1540.2	1543.3	1546.4	1549.4	1549.9	1547.6	1545.2
177.5°	1548.2	1545.8	1543.3	1540.8	1543.3	1545.8	1548.2	1550.7	1551.1	1549.4	1547.8
180°	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4



TEST NUMBER: P333027-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	501.0	502.2	504.9	507.9	510.5	512.6	514.3	516.7	518.9	521.9	524.8
5°	470.6	473.6	477.8	482.9	489.2	493.4	498.6	503.4	510.1	516.8	523.3
7.5°	444.0	447.2	453.4	460.4	467.9	474.8	481.1	489.3	498.2	508.1	519.1
10°	426.7	430.3	437.7	445.7	454.6	461.4	469.8	479.5	489.6	501.7	515.1
12.5°	411.2	414.6	423.5	431.7	440.9	448.4	458.2	468.0	481.5	494.5	509.9
15°	380.9	390.0	400.1	409.8	420.8	429.9	441.7	451.8	464.7	483.0	500.6
17.5°	347.3	357.0	369.6	384.6	399.3	410.5	422.5	435.1	450.4	469.1	489.4
20°	327.7	335.6	349.5	366.1	383.3	398.9	409.8	423.7	439.6	459.9	480.7
22.5°	313.1	319.7	330.6	347.2	365.7	383.8	397.9	411.6	429.1	449.4	472.2
25°	291.1	298.2	307.7	319.1	340.2	359.4	377.7	393.6	412.1	432.4	457.7
27.5°	272.7	278.9	287.7	299.5	313.7	334.8	357.1	375.1	394.2	416.0	441.3
30°	261.9	267.0	274.1	286.1	299.7	318.7	341.3	362.4	381.6	404.1	430.5
32.5°	250.6	256.0	263.0	272.5	287.0	303.0	325.6	348.7	369.1	392.2	418.0
35°	235.5	239.8	246.1	255.7	268.9	282.8	302.8	326.7	348.2	372.9	397.6
37.5°	220.3	225.2	230.2	238.9	249.6	264.6	281.0	305.4	329.2	351.8	375.9
40°	211.7	214.6	220.1	227.1	238.4	251.7	267.2	291.1	314.9	337.2	361.5
42.5°	202.1	205.4	210.0	217.0	227.1	240.1	255.2	275.8	300.7	322.4	344.5
45°	188.7	190.6	195.2	201.1	209.6	222.7	236.6	254.9	278.4	299.1	318.4
47.5°	175.1	176.8	179.7	185.1	194.6	205.1	218.1	234.6	255.1	275.8	292.2
50°	165.9	167.4	170.1	175.1	183.6	193.9	206.8	221.6	240.0	259.8	273.5
52.5°	156.6	157.4	160.0	165.7	172.8	183.0	194.5	208.1	225.2	241.7	255.7
55°	141.8	143.7	145.4	149.6	156.4	166.1	176.5	189.3	202.6	216.5	228.4
57.5°	126.4	128.5	130.9	134.6	140.0	149.0	158.3	168.7	180.1	191.6	201.6
60°	116.3	118.2	120.3	124.5	129.4	136.5	146.7	155.8	164.4	175.0	184.9
62.5°	106.3	108.3	110.7	114.0	118.7	125.6	134.0	141.9	150.9	160.1	167.5
65°	91.6	93.1	95.0	98.2	102.5	108.7	115.7	121.8	129.8	136.5	143.3
67.5°	75.4	78.3	80.7	83.3	87.0	92.7	97.8	103.7	109.1	114.1	120.3
70°	64.8	67.9	70.3	73.0	76.6	81.5	86.3	90.3	94.8	99.6	105.1
72.5°	55.8	58.3	60.2	63.0	66.3	70.8	75.3	78.6	82.3	85.6	91.0
75°	44.1	45.1	46.5	48.8	51.7	55.1	58.7	61.6	63.8	66.7	70.4
77.5°	31.7	33.7	34.6	36.2	38.3	40.4	42.8	45.3	47.3	48.3	51.3
80°	24.3	25.1	25.9	28.3	29.5	31.7	33.3	35.7	36.5	37.5	40.3
82.5°	18.9	19.4	19.9	20.5	21.3	23.4	25.1	26.6	27.4	27.7	29.9
85°	11.0	11.1	11.4	11.6	11.9	11.9	12.7	13.7	15.2	15.2	15.9
87.5°	9.1	9.0	8.6	8.0	7.9	7.5	7.1	6.6	6.5	6.5	6.4
90°	27.0	25.4	23.4	21.3	19.3	17.2	14.8	11.9	9.1	6.3	3.5
92.5°	26.0	24.5	22.5	20.4	18.4	16.3	15.2	15.1	14.9	14.7	14.5
95°	27.0	25.4	25.1	25.0	24.7	24.4	28.6	37.4	46.1	54.8	63.6
97.5°	30.7	30.5	59.2	87.9	116.5	145.3	156.9	151.4	146.0	140.5	135.1
100°	46.5	50.9	86.3	121.8	157.3	192.8	208.2	203.6	198.9	194.3	189.7
102.5°	198.0	245.2	249.9	254.5	259.0	263.7	264.3	260.9	257.5	254.1	250.7
105°	363.2	360.9	359.5	358.3	357.0	355.7	354.3	352.8	351.2	349.6	348.1
107.5°	451.0	450.0	448.2	446.4	444.7	442.9	441.7	440.9	440.1	439.3	438.5
110°	510.6	510.1	508.5	506.9	505.4	503.9	502.7	501.9	501.2	500.4	499.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	568.3	568.4	567.7	566.9	566.2	565.4	564.5	563.0	561.7	560.3	558.8
115°	652.8	652.3	652.6	652.8	653.1	653.4	653.1	652.3	651.6	650.8	650.0
117.5°	739.2	739.3	738.7	738.2	737.6	737.0	736.2	735.2	734.1	733.2	732.1
120°	791.7	791.1	791.4	791.7	791.9	792.1	791.8	790.8	789.7	788.6	787.6
122.5°	844.2	843.8	843.5	843.1	842.8	842.4	842.0	841.3	840.7	840.1	839.5
125°	916.8	916.1	916.5	917.0	917.6	918.1	917.8	916.8	915.8	914.7	913.7
127.5°	990.3	990.5	989.4	988.1	986.9	985.8	985.1	984.8	984.5	984.3	984.0
130°	1034.3	1034.0	1033.2	1032.4	1031.7	1030.9	1030.4	1030.1	1029.9	1029.7	1029.4
132.5°	1077.7	1077.5	1076.5	1075.5	1074.6	1073.6	1072.8	1072.4	1071.9	1071.5	1071.0
135°	1137.5	1136.9	1136.0	1134.9	1133.8	1132.8	1132.5	1132.7	1132.9	1133.2	1133.5
137.5°	1194.9	1194.3	1193.2	1192.0	1190.9	1189.8	1189.2	1189.1	1188.9	1188.8	1188.7
140°	1230.2	1229.5	1229.0	1228.4	1227.9	1227.4	1226.9	1226.4	1225.8	1225.4	1224.9
142.5°	1263.4	1262.8	1262.5	1262.1	1261.9	1261.5	1261.0	1260.0	1259.1	1258.1	1257.2
145°	1310.7	1310.5	1310.5	1310.5	1310.5	1310.5	1310.0	1309.3	1308.5	1307.7	1307.0
147.5°	1352.0	1351.8	1352.1	1352.4	1352.6	1352.9	1352.3	1350.9	1349.4	1347.9	1346.5
150°	1378.7	1378.7	1378.9	1379.2	1379.5	1379.7	1379.3	1378.3	1377.2	1376.3	1375.2
152.5°	1401.3	1400.9	1401.3	1401.8	1402.3	1402.8	1402.6	1401.7	1400.9	1400.1	1399.3
155°	1431.7	1430.7	1431.5	1432.3	1433.1	1433.8	1434.0	1433.8	1433.5	1433.2	1433.1
157.5°	1458.2	1456.9	1457.8	1458.6	1459.5	1460.4	1460.9	1461.0	1461.2	1461.3	1461.5
160°	1475.1	1473.6	1473.7	1474.0	1474.3	1474.5	1475.1	1475.8	1476.6	1477.4	1478.1
162.5°	1488.9	1487.4	1487.6	1487.9	1488.2	1488.4	1489.1	1490.0	1491.0	1491.9	1492.9
165°	1508.0	1505.9	1505.9	1505.9	1505.9	1505.9	1506.5	1507.8	1509.1	1510.4	1511.7
167.5°	1522.1	1519.7	1519.9	1520.1	1520.3	1520.4	1521.2	1522.5	1523.8	1525.2	1526.5
170°	1531.1	1529.0	1528.7	1528.5	1528.2	1528.0	1528.7	1530.2	1531.7	1533.3	1534.8
172.5°	1536.6	1534.5	1534.3	1534.1	1533.8	1533.6	1534.2	1535.7	1537.3	1538.8	1540.3
175°	1542.9	1540.6	1540.3	1540.1	1539.8	1539.5	1540.2	1541.8	1543.3	1544.8	1546.4
177.5°	1546.1	1544.5	1544.1	1543.7	1543.3	1542.8	1543.4	1544.8	1546.2	1547.7	1549.2
180°	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	527.0	528.5	530.2	533.4	536.1	537.3	539.7	541.4	540.8	543.2	547.2
5°	529.1	534.8	541.4	548.0	555.6	562.0	567.0	572.1	576.1	580.9	588.2
7.5°	528.7	538.9	549.9	562.0	574.4	585.2	595.1	605.3	614.3	624.1	637.0
10°	527.4	540.9	554.6	570.4	586.3	601.3	614.7	627.4	639.4	652.3	668.6
12.5°	525.8	541.4	557.9	577.0	596.7	614.7	630.6	648.9	664.0	680.6	699.3
15°	519.2	540.0	562.7	587.3	611.0	635.3	656.9	679.3	700.3	720.1	743.7
17.5°	511.5	535.6	562.2	591.4	619.7	649.3	675.1	703.3	724.6	751.3	773.2
20°	505.2	531.2	559.6	592.4	624.6	657.4	685.9	714.6	738.6	765.4	793.3
22.5°	497.7	526.1	557.0	590.8	624.6	660.4	692.0	720.5	750.3	780.4	809.1
25°	485.4	515.0	547.7	584.8	623.7	660.1	693.9	729.3	761.4	794.2	819.9
27.5°	470.4	501.4	535.8	574.2	614.0	651.4	691.2	729.0	761.3	792.7	815.2
30°	458.3	491.1	524.2	563.0	604.4	644.5	687.2	725.0	758.9	787.2	799.9
32.5°	446.0	477.1	511.2	550.5	592.9	636.1	678.3	717.0	748.4	765.4	765.7
35°	424.6	453.7	489.2	527.8	571.3	618.1	660.9	698.9	718.2	719.6	698.9
37.5°	401.3	427.9	461.4	500.1	547.7	594.3	638.0	663.3	669.8	648.3	610.1
40°	384.5	409.2	441.5	481.2	528.4	576.6	616.4	635.0	628.3	593.4	550.8
42.5°	366.9	389.9	421.1	460.2	507.7	556.3	590.3	600.2	582.4	542.2	492.2
45°	338.3	359.4	390.2	429.7	475.3	520.8	546.6	541.5	511.8	464.0	408.1
47.5°	308.4	328.9	356.6	393.1	439.8	479.1	496.5	481.3	438.9	386.5	341.0
50°	288.7	309.6	335.1	370.0	412.6	450.6	461.7	438.5	391.5	341.1	299.3
52.5°	269.3	287.1	312.2	345.8	386.6	418.7	424.6	397.9	349.3	304.1	267.0
55°	239.8	256.0	277.1	308.7	344.0	371.2	368.0	333.7	289.5	250.9	221.8
57.5°	211.2	223.4	242.9	272.6	303.5	321.8	310.2	280.9	239.8	208.1	183.6
60°	192.3	203.7	221.8	247.7	275.0	285.3	275.6	243.8	211.2	182.4	161.7
62.5°	174.3	184.4	200.0	224.1	246.1	252.3	241.8	214.0	184.8	160.1	142.9
65°	148.4	157.7	170.9	188.1	203.2	206.2	199.5	170.9	148.8	128.1	116.3
67.5°	124.8	130.8	141.2	156.0	164.1	165.8	152.8	134.8	115.3	102.6	93.7
70°	108.9	113.2	122.8	130.8	137.4	137.6	125.6	111.2	96.2	85.9	79.4
72.5°	93.5	97.6	105.0	110.4	115.5	113.8	102.8	91.5	79.4	71.5	66.7
75°	72.1	75.8	79.5	82.1	82.1	80.0	72.0	63.5	56.5	51.9	50.5
77.5°	52.4	55.4	56.7	56.3	55.6	52.3	47.2	41.6	39.1	37.0	35.8
80°	41.2	42.4	42.8	41.8	40.5	36.7	33.3	31.0	28.7	27.8	27.5
82.5°	30.5	31.7	30.5	30.9	28.0	24.9	23.0	22.2	21.3	21.0	20.5
85°	16.2	16.1	15.6	14.5	12.7	12.2	12.0	11.9	11.4	11.6	11.1
87.5°	6.9	6.9	6.8	7.1	7.7	7.8	8.3	8.7	9.2	9.3	9.9
90°	6.3	9.1	11.9	14.8	17.2	19.3	21.3	23.4	25.4	27.0	28.5
92.5°	14.7	14.9	15.1	15.2	16.3	18.4	20.4	22.5	24.5	26.0	27.6
95°	54.8	46.1	37.4	28.6	24.4	24.7	25.0	25.1	25.4	27.0	28.5
97.5°	140.5	146.0	151.4	156.9	145.3	116.5	87.9	59.2	30.5	30.7	30.9
100°	194.3	198.9	203.6	208.2	192.8	157.3	121.8	86.3	50.9	46.5	42.2
102.5°	254.1	257.5	260.9	264.3	263.7	259.0	254.5	249.9	245.2	198.0	151.0
105°	349.6	351.2	352.8	354.3	355.7	357.0	358.3	359.5	360.9	363.2	365.5
107.5°	439.3	440.1	440.9	441.7	442.9	444.7	446.4	448.2	450.0	451.0	452.2
110°	500.4	501.2	501.9	502.7	503.9	505.4	506.9	508.5	510.1	510.6	511.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	560.3	561.7	563.0	564.5	565.4	566.2	566.9	567.7	568.4	568.3	568.1
115°	650.8	651.6	652.3	653.1	653.4	653.1	652.8	652.6	652.3	652.8	653.4
117.5°	733.2	734.1	735.2	736.2	737.0	737.6	738.2	738.7	739.3	739.2	739.0
120°	788.6	789.7	790.8	791.8	792.1	791.9	791.7	791.4	791.1	791.7	792.1
122.5°	840.1	840.7	841.3	842.0	842.4	842.8	843.1	843.5	843.8	844.2	844.5
125°	914.7	915.8	916.8	917.8	918.1	917.6	917.0	916.5	916.1	916.8	917.6
127.5°	984.3	984.5	984.8	985.1	985.8	986.9	988.1	989.4	990.5	990.3	990.2
130°	1029.7	1029.9	1030.1	1030.4	1030.9	1031.7	1032.4	1033.2	1034.0	1034.3	1034.5
132.5°	1071.5	1071.9	1072.4	1072.8	1073.6	1074.6	1075.5	1076.5	1077.5	1077.7	1078.0
135°	1133.2	1132.9	1132.7	1132.5	1132.8	1133.8	1134.9	1136.0	1136.9	1137.5	1138.0
137.5°	1188.8	1188.9	1189.1	1189.2	1189.8	1190.9	1192.0	1193.2	1194.3	1194.9	1195.4
140°	1225.4	1225.8	1226.4	1226.9	1227.4	1227.9	1228.4	1229.0	1229.5	1230.2	1231.0
142.5°	1258.1	1259.1	1260.0	1261.0	1261.5	1261.9	1262.1	1262.5	1262.8	1263.4	1263.9
145°	1307.7	1308.5	1309.3	1310.0	1310.5	1310.5	1310.5	1310.5	1310.5	1310.7	1310.9
147.5°	1347.9	1349.4	1350.9	1352.3	1352.9	1352.6	1352.4	1352.1	1351.8	1352.0	1352.3
150°	1376.3	1377.2	1378.3	1379.3	1379.7	1379.5	1379.2	1378.9	1378.7	1378.7	1378.7
152.5°	1400.1	1400.9	1401.7	1402.6	1402.8	1402.3	1401.8	1401.3	1400.9	1401.3	1401.7
155°	1433.2	1433.5	1433.8	1434.0	1433.8	1433.1	1432.3	1431.5	1430.7	1431.7	1432.8
157.5°	1461.3	1461.2	1461.0	1460.9	1460.4	1459.5	1458.6	1457.8	1456.9	1458.2	1459.6
160°	1477.4	1476.6	1475.8	1475.1	1474.5	1474.3	1474.0	1473.7	1473.6	1475.1	1476.6
162.5°	1491.9	1491.0	1490.0	1489.1	1488.4	1488.2	1487.9	1487.6	1487.4	1488.9	1490.5
165°	1510.4	1509.1	1507.8	1506.5	1505.9	1505.9	1505.9	1505.9	1505.9	1508.0	1510.0
167.5°	1525.2	1523.8	1522.5	1521.2	1520.4	1520.3	1520.1	1519.9	1519.7	1522.1	1524.3
170°	1533.3	1531.7	1530.2	1528.7	1528.0	1528.2	1528.5	1528.7	1529.0	1531.1	1533.1
172.5°	1538.8	1537.3	1535.7	1534.2	1533.6	1533.8	1534.1	1534.3	1534.5	1536.6	1538.6
175°	1544.8	1543.3	1541.8	1540.2	1539.5	1539.8	1540.1	1540.3	1540.6	1542.9	1545.2
177.5°	1547.7	1546.2	1544.8	1543.4	1542.8	1543.3	1543.7	1544.1	1544.5	1546.1	1547.8
180°	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	549.5	550.1	550.6	552.3	552.5	554.0	552.5
5°	594.9	597.9	602.5	607.2	607.6	610.6	605.3
7.5°	645.9	652.7	657.0	664.5	667.4	669.3	666.3
10°	681.0	687.3	698.6	704.0	709.5	710.3	707.8
12.5°	715.0	725.0	733.8	744.2	744.0	751.4	748.7
15°	760.2	770.5	782.7	794.3	798.5	798.5	801.9
17.5°	792.4	811.4	824.0	833.1	843.1	844.8	843.6
20°	814.2	834.6	848.2	860.0	866.7	868.6	868.6
22.5°	830.4	847.8	861.0	871.6	877.2	879.4	878.8
25°	841.6	856.6	864.6	867.8	869.2	868.9	864.9
27.5°	826.3	825.5	820.6	810.8	803.5	799.1	794.0
30°	796.9	785.9	773.2	759.3	741.4	727.6	723.4
32.5°	753.1	728.5	707.0	683.9	664.6	650.9	645.1
35°	668.6	629.5	597.6	569.8	549.6	536.9	532.6
37.5°	568.2	530.4	491.0	464.0	447.1	434.4	429.6
40°	504.4	463.2	428.8	403.5	386.2	373.7	373.5
42.5°	446.1	406.8	374.4	356.2	337.6	329.3	329.3
45°	365.3	333.9	306.4	292.0	280.9	274.1	272.2
47.5°	302.5	276.4	258.2	246.7	237.6	233.4	230.5
50°	267.2	244.4	229.8	219.9	214.8	209.4	208.9
52.5°	237.8	219.4	208.0	200.0	193.6	190.3	190.4
55°	199.8	185.3	177.3	171.1	166.1	163.5	162.5
57.5°	168.4	157.5	151.6	146.0	143.8	141.9	141.3
60°	148.8	141.4	135.9	131.4	128.3	127.7	127.4
62.5°	132.6	124.8	121.1	117.6	115.3	114.3	114.0
65°	109.3	103.6	100.2	97.5	96.7	95.1	95.0
67.5°	88.1	84.7	82.5	80.6	79.5	79.4	79.4
70°	75.2	73.2	71.3	70.3	69.6	69.2	69.2
72.5°	64.0	62.6	61.0	60.5	60.4	59.9	59.7
75°	48.8	47.3	47.5	46.5	45.6	44.5	43.9
77.5°	34.6	33.5	33.3	33.2	32.5	32.4	32.6
80°	26.8	25.8	25.5	25.8	25.5	24.9	24.9
82.5°	20.4	19.5	19.3	19.2	19.0	19.2	18.8
85°	11.0	10.5	10.5	10.5	11.0	10.8	10.5
87.5°	9.9	10.1	10.4	10.3	10.4	10.3	10.6
90°	30.1	31.7	32.6	33.2	33.7	34.2	34.7
92.5°	29.2	30.7	31.5	31.7	31.7	31.8	31.9
95°	30.1	31.7	32.5	32.7	33.0	33.3	33.5
97.5°	31.0	31.1	31.4	31.7	31.8	32.1	32.4
100°	37.8	33.4	31.4	31.7	31.8	32.1	32.4
102.5°	103.8	56.6	33.1	33.2	33.2	33.3	33.3
105°	367.8	370.1	366.7	357.4	348.1	338.9	329.7
107.5°	453.3	454.4	455.5	456.5	457.4	458.4	459.4
110°	511.6	512.1	512.7	513.5	514.3	515.1	515.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	568.0	567.9	568.4	569.4	570.3	571.3	572.3
115°	653.9	654.3	654.6	654.6	654.6	654.6	654.6
117.5°	739.0	738.9	738.8	738.7	738.6	738.5	738.3
120°	792.6	793.2	793.2	792.6	792.1	791.7	791.1
122.5°	844.8	845.1	845.0	844.5	843.9	843.5	842.9
125°	918.4	919.1	919.6	919.9	920.2	920.4	920.7
127.5°	990.1	989.9	989.7	989.5	989.3	989.1	988.9
130°	1034.7	1035.0	1035.2	1035.2	1035.2	1035.2	1035.2
132.5°	1078.3	1078.5	1078.5	1078.3	1078.2	1077.9	1077.7
135°	1138.4	1139.0	1139.5	1140.1	1140.5	1141.0	1141.6
137.5°	1196.0	1196.6	1196.8	1196.6	1196.5	1196.3	1196.1
140°	1231.8	1232.5	1233.1	1233.3	1233.6	1233.9	1234.1
142.5°	1264.4	1265.1	1265.3	1265.4	1265.4	1265.5	1265.5
145°	1311.2	1311.4	1311.9	1312.3	1312.9	1313.4	1313.9
147.5°	1352.5	1352.6	1352.9	1353.2	1353.4	1353.6	1353.9
150°	1378.7	1378.7	1378.8	1379.0	1379.3	1379.6	1379.8
152.5°	1402.1	1402.5	1402.7	1402.5	1402.3	1402.2	1402.0
155°	1433.8	1434.9	1434.9	1434.2	1433.4	1432.6	1431.9
157.5°	1460.9	1462.2	1462.2	1460.9	1459.6	1458.2	1456.9
160°	1478.1	1479.7	1479.7	1478.1	1476.6	1475.1	1473.6
162.5°	1492.0	1493.5	1493.4	1491.7	1490.0	1488.2	1486.5
165°	1512.1	1514.1	1513.9	1511.7	1509.4	1507.1	1504.8
167.5°	1526.5	1528.8	1528.7	1526.1	1523.5	1521.0	1518.4
170°	1535.2	1537.2	1537.0	1534.5	1531.9	1529.3	1526.7
172.5°	1540.8	1542.8	1542.5	1539.6	1536.9	1534.1	1531.3
175°	1547.6	1549.9	1549.4	1546.4	1543.3	1540.2	1537.1
177.5°	1549.4	1551.1	1550.7	1548.2	1545.8	1543.3	1540.8
180°	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.4

(END OF REPORT)