

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: P332407-930

Luminaire Tested: **S123RDIW-S340D1535U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332407-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S340D1535U930-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5445.7 lumens
Efficiency: N/A
Efficacy: 102.0 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

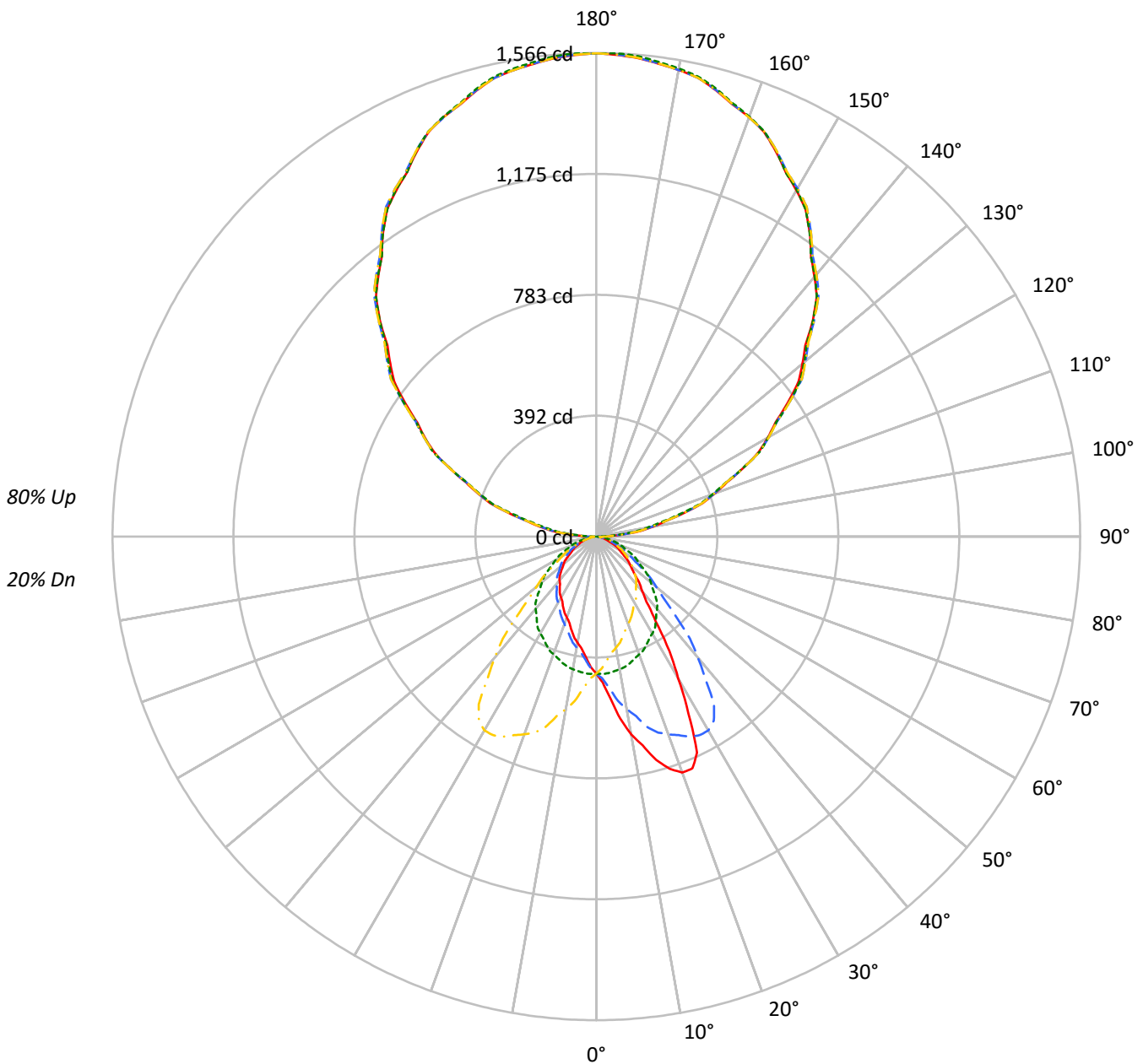
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 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	67	67	67	47	47	47	29	29	29	20
1	91	87	84	80	81	77	74	72	59	57	55	42	40	39	26	25	25	18
2	83	76	71	66	73	68	63	59	52	49	46	37	35	33	23	22	21	15
3	76	67	61	55	67	60	54	50	46	42	39	33	30	28	21	19	18	13
4	70	60	52	47	61	53	47	42	41	36	33	29	27	24	18	17	16	11
5	64	53	45	40	56	47	41	36	36	32	28	26	23	21	17	15	14	10
6	59	47	40	34	52	42	36	31	33	28	25	24	21	18	15	14	12	9
7	54	43	35	30	48	38	32	27	30	25	22	21	19	16	14	12	11	8
8	50	39	31	26	44	35	28	24	27	22	19	20	17	14	13	11	10	7
9	47	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	7
10	43	32	25	21	38	29	23	19	22	18	15	17	14	12	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4776	4776	4776	4776
5°	5693	4796	4224	4796
10°	7109	4769	3816	4769
15°	8344	4719	3480	4719
20°	9313	4647	3194	4647
25°	9164	4570	3018	4570
30°	6586	4501	2838	4501
35°	4398	4407	2720	4407
40°	3240	4297	2599	4297
45°	2719	4102	2481	4102
50°	2398	3848	2316	3848
55°	2104	3558	2089	3558
60°	1873	3279	1914	3279
65°	1645	2980	1780	2980
70°	1290	2716	1627	2716
75°	1135	2371	1485	2371
80°	992	2008	1463	2008
85°	790	1618	1556	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	0.8
10°-20°	136.3	2.5
20°-30°	214.2	3.9
30°-40°	223.4	4.1
40°-50°	191.2	3.5
50°-60°	145.7	2.7
60°-70°	93.4	1.7
70°-80°	44.9	0.8
80°-90°	16.5	0.3
90°-100°	102.0	1.9
100°-110°	305.2	5.6
110°-120°	519.0	9.5
120°-130°	682.7	12.5
130°-140°	767.4	14.1
140°-150°	754.3	13.9
150°-160°	635.0	11.7
160°-170°	422.7	7.8
170°-180°	148.0	2.7
0°-30°	394.1	7.2
0°-40°	617.6	11.3
0°-60°	954.5	17.5
0°-90°	1109.4	20.4
90°-120°	926.2	17.0
90°-150°	3130.5	57.5
90°-180°	4336.0	79.6
0°-180°	5445.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	444	444	444	444	444	
5°	527	444	391	444	527	54
15°	749	424	312	424	749	212
25°	772	385	254	385	772	332
35°	335	335	207	335	335	219
45°	179	270	163	270	179	140
55°	112	190	111	190	112	101
65°	65	117	70	117	65	64
75°	27	57	36	57	27	29
85°	6	13	13	13	6	8
90°	37	1	37	1	37	18
95°	96	73	96	73	96	98
105°	293	277	293	277	293	310
115°	524	522	524	522	524	519
125°	756	765	756	765	756	676
135°	991	992	991	992	991	762
145°	1204	1204	1204	1204	1204	751
155°	1376	1378	1376	1378	1376	633
165°	1496	1501	1496	1501	1496	422
175°	1555	1561	1555	1561	1555	148
180°	1565	1565	1565	1565	1565	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	472.6	473.2	471.2	470.9	468.6	468.1	468.1	464.8	462.8	460.3	458.8
5°	526.9	529.9	528.4	525.1	519.3	518.0	514.4	508.7	502.2	494.2	490.5
7.5°	594.8	598.9	597.3	592.1	586.0	581.2	571.0	561.6	548.4	536.7	526.8
10°	650.4	646.0	642.6	637.5	631.9	623.1	612.4	597.8	580.9	567.5	552.8
12.5°	692.0	691.3	687.0	681.7	673.9	665.4	652.3	634.5	614.9	595.7	578.7
15°	748.8	749.9	747.1	741.6	730.5	715.5	695.8	688.4	660.2	639.4	618.5
17.5°	788.1	787.8	787.4	779.8	768.6	757.9	739.6	720.1	694.6	665.2	637.1
20°	813.0	811.1	811.5	802.9	794.6	782.2	764.3	736.1	715.2	681.2	652.1
22.5°	812.4	812.0	813.4	810.5	804.5	795.0	780.9	757.0	730.3	696.0	663.3
25°	771.6	770.1	778.9	781.5	791.2	792.9	788.6	775.6	750.3	714.9	674.5
27.5°	645.7	644.9	661.5	682.2	708.5	729.0	748.7	758.2	750.3	725.0	684.4
30°	529.9	547.8	556.2	586.2	619.6	659.5	694.5	727.7	735.9	724.8	691.6
32.5°	440.0	455.6	462.6	488.3	519.5	566.2	618.6	665.7	699.0	707.4	687.4
35°	334.7	334.8	350.8	362.2	391.1	439.1	490.1	553.1	615.8	663.3	668.2
37.5°	267.1	268.0	277.7	289.0	310.7	336.1	380.9	433.3	505.7	578.6	621.4
40°	230.6	232.3	239.5	250.7	266.3	285.5	320.4	369.8	430.2	511.4	577.6
42.5°	207.2	209.9	213.7	222.3	232.0	250.0	278.2	316.3	371.3	448.0	524.5
45°	178.6	180.1	183.0	186.9	195.7	208.1	227.1	252.8	298.4	360.1	436.7
47.5°	157.5	156.7	159.7	162.9	168.8	177.3	190.0	210.9	243.4	293.0	357.9
50°	143.2	143.0	145.1	147.6	153.1	159.4	169.8	185.6	211.4	252.4	311.9
52.5°	129.9	130.5	132.1	135.1	139.1	144.1	153.5	164.9	187.1	222.5	272.1
55°	112.1	112.7	114.7	116.4	119.3	124.4	130.3	139.8	155.0	179.7	220.5
57.5°	97.0	96.8	98.7	99.2	102.4	106.6	111.1	118.5	129.6	147.9	175.4
60°	87.0	86.4	88.1	89.4	91.2	94.6	98.4	105.6	114.4	127.8	151.4
62.5°	77.9	77.6	78.8	80.2	81.6	84.7	87.9	93.4	100.4	111.7	130.4
65°	64.6	65.1	65.7	66.3	67.0	69.0	72.0	75.8	80.6	88.5	102.0
67.5°	50.8	51.4	51.5	52.7	54.3	55.5	57.4	60.7	64.1	70.8	78.4
70°	41.0	40.8	41.0	41.6	43.7	45.7	48.3	50.7	52.8	57.6	64.0
72.5°	35.2	34.9	35.4	35.5	36.5	37.1	38.6	41.0	43.7	46.9	51.5
75°	27.3	27.3	27.3	27.3	28.1	28.5	29.0	29.6	30.6	32.1	35.5
77.5°	20.2	20.2	20.5	20.7	20.9	21.1	21.4	22.0	22.3	23.2	24.6
80°	16.0	16.1	16.0	16.1	16.1	16.6	16.7	17.3	17.4	18.4	19.0
82.5°	12.0	11.9	12.0	12.2	12.2	12.6	12.6	13.0	13.0	13.5	14.1
85°	6.4	6.1	6.4	6.3	6.7	6.3	6.4	6.8	6.8	7.0	7.8
87.5°	8.9	9.1	8.6	8.7	8.6	8.6	8.4	8.2	8.2	7.9	7.3
90°	36.9	36.4	35.8	35.2	34.7	33.9	32.8	31.7	30.6	29.5	25.9
92.5°	49.7	50.0	50.3	50.6	51.0	50.7	49.8	48.9	48.1	47.2	45.2
95°	95.9	95.9	95.9	95.9	95.9	95.3	94.2	93.2	92.0	91.0	88.8
97.5°	147.6	147.7	147.7	147.9	148.0	147.4	146.1	144.9	143.7	142.4	140.8
100°	186.9	186.3	185.8	185.2	184.7	184.0	183.2	182.4	181.6	180.8	179.4
102.5°	227.2	227.3	227.4	227.6	227.6	227.3	226.5	225.7	224.9	224.0	222.2
105°	292.6	292.0	291.6	291.0	290.4	290.2	290.2	290.2	290.2	290.2	287.7
107.5°	360.7	361.0	361.3	361.7	362.0	361.7	360.9	360.0	359.1	358.2	357.3
110°	406.9	407.5	408.1	408.5	409.1	408.9	407.7	406.7	405.6	404.5	403.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	456.1	456.2	456.3	456.5	456.6	455.9	454.6	453.3	452.0	450.7	450.6
115°	523.7	524.0	524.3	524.6	524.8	524.8	524.6	524.3	524.0	523.7	524.3
117.5°	592.3	593.1	593.9	594.6	595.4	595.8	595.9	595.9	596.0	596.1	596.7
120°	640.5	641.1	641.6	642.2	642.7	643.1	643.4	643.7	643.9	644.2	645.6
122.5°	686.7	687.5	688.3	689.1	689.8	690.6	691.3	691.9	692.7	693.4	694.1
125°	756.1	757.2	758.3	759.4	760.4	761.6	762.6	763.8	764.8	766.0	766.5
127.5°	825.2	826.5	827.7	829.0	830.2	831.6	833.2	834.7	836.2	837.7	838.4
130°	870.4	872.4	874.2	876.2	878.1	879.6	880.7	881.7	882.9	883.9	884.8
132.5°	917.6	919.1	920.6	922.1	923.6	925.0	926.3	927.6	928.9	930.2	930.7
135°	990.9	991.5	992.0	992.5	993.1	993.9	995.0	996.1	997.2	998.3	998.6
137.5°	1055.6	1056.6	1057.7	1058.7	1059.7	1060.9	1062.0	1063.2	1064.3	1065.4	1064.7
140°	1097.9	1099.8	1101.7	1103.6	1105.5	1106.6	1106.9	1107.2	1107.4	1107.7	1107.4
142.5°	1141.2	1142.6	1144.1	1145.6	1147.0	1147.9	1148.2	1148.5	1148.8	1149.0	1148.5
145°	1203.6	1204.7	1205.8	1206.9	1207.9	1208.7	1208.9	1209.2	1209.5	1209.7	1208.9
147.5°	1259.1	1260.8	1262.5	1264.1	1265.8	1266.6	1266.6	1266.6	1266.6	1266.6	1265.8
150°	1294.6	1296.2	1297.9	1299.5	1301.1	1302.0	1302.0	1302.0	1302.0	1302.0	1301.4
152.5°	1329.0	1330.4	1331.9	1333.3	1334.7	1335.2	1334.7	1334.3	1333.9	1333.4	1333.1
155°	1375.7	1377.6	1379.6	1381.4	1383.4	1383.8	1382.7	1381.6	1380.5	1379.4	1379.2
157.5°	1418.3	1419.8	1421.3	1422.9	1424.4	1424.6	1423.4	1422.3	1421.1	1420.0	1419.8
160°	1445.8	1446.9	1448.0	1449.1	1450.2	1450.0	1448.7	1447.3	1445.9	1444.5	1444.5
162.5°	1466.5	1468.2	1470.0	1471.7	1473.5	1473.7	1472.3	1470.9	1469.6	1468.2	1467.9
165°	1496.2	1498.1	1500.1	1501.9	1503.9	1504.0	1502.4	1500.7	1499.1	1497.5	1497.5
167.5°	1521.5	1523.2	1524.9	1526.6	1528.3	1528.3	1526.6	1524.9	1523.2	1521.5	1521.3
170°	1534.3	1536.3	1538.1	1540.1	1542.0	1542.0	1540.1	1538.1	1536.3	1534.3	1534.3
172.5°	1544.2	1546.1	1548.0	1549.9	1551.8	1551.9	1550.2	1548.5	1546.9	1545.2	1545.2
175°	1555.3	1557.1	1559.0	1561.0	1562.8	1563.0	1561.4	1559.7	1558.1	1556.5	1556.5
177.5°	1561.1	1562.7	1564.2	1565.7	1567.2	1567.3	1566.0	1564.7	1563.4	1562.1	1562.1
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	458.1	457.7	455.6	453.1	450.0	447.8	446.1	445.2	442.5	439.1	436.9
5°	486.5	480.8	474.7	467.2	460.4	453.4	449.1	443.9	437.7	430.6	425.7
7.5°	516.7	505.6	493.6	481.1	468.9	457.9	448.1	439.8	429.8	419.7	412.7
10°	540.1	523.7	506.8	489.5	473.8	458.9	447.5	436.3	424.4	412.8	404.0
12.5°	561.2	539.6	520.2	498.9	478.7	461.1	444.7	431.5	417.0	404.7	394.8
15°	587.9	565.8	542.3	510.0	483.2	460.8	440.8	423.5	406.1	390.9	381.2
17.5°	612.9	579.8	548.0	521.1	486.3	458.4	434.0	413.4	394.1	378.1	366.1
20°	623.2	591.1	556.8	522.4	488.2	456.8	428.5	405.7	385.8	367.5	356.5
22.5°	629.4	593.1	556.8	519.9	483.6	451.0	423.1	397.9	376.3	359.1	345.4
25°	636.7	593.4	553.5	517.1	480.0	444.7	411.4	384.8	361.5	343.1	328.6
27.5°	641.5	590.5	543.4	502.9	465.3	430.2	399.7	371.5	347.7	328.2	312.7
30°	642.4	588.2	535.7	491.8	453.6	421.3	389.0	362.1	337.0	316.3	301.8
32.5°	643.6	582.6	525.1	478.6	439.4	407.5	378.2	352.5	326.8	306.4	291.6
35°	638.6	579.5	509.2	455.7	416.5	385.6	359.2	335.4	310.2	290.4	275.4
37.5°	617.0	567.2	492.8	429.9	389.0	360.4	338.8	318.1	295.0	273.6	259.5
40°	595.3	555.1	480.0	414.3	371.5	342.1	322.7	305.8	283.4	263.4	248.3
42.5°	563.0	538.4	467.8	397.9	351.8	323.4	307.0	291.2	271.6	251.3	237.0
45°	503.5	506.8	443.0	371.7	324.4	296.0	280.5	269.5	252.1	235.4	220.7
47.5°	429.1	459.3	413.8	343.9	295.6	268.9	255.4	245.8	234.0	217.6	204.2
50°	380.5	423.5	390.4	325.2	277.5	250.9	237.7	229.8	219.6	206.7	194.0
52.5°	335.7	382.0	362.1	304.4	257.9	233.6	220.6	214.2	206.0	193.9	182.4
55°	273.7	320.7	316.1	273.0	228.5	206.7	196.8	189.6	184.1	175.0	165.8
57.5°	221.4	265.9	268.2	238.0	202.6	181.0	172.5	167.1	163.5	156.6	148.1
60°	188.4	229.3	237.3	214.4	184.1	165.1	156.7	152.3	149.5	144.0	137.5
62.5°	161.1	195.8	204.9	188.5	166.3	148.5	141.9	137.8	135.8	131.1	125.4
65°	123.3	152.1	160.9	151.8	140.1	126.0	120.6	117.0	115.3	112.7	108.4
67.5°	92.7	113.7	123.4	116.9	112.7	103.7	100.4	98.4	96.9	95.1	91.6
70°	74.4	90.0	99.9	98.2	94.8	90.0	87.6	86.3	84.7	83.2	80.1
72.5°	59.8	70.6	79.8	80.7	77.9	77.0	74.8	74.2	73.3	71.5	69.8
75°	39.7	47.1	53.6	56.0	57.2	58.1	57.2	57.0	56.8	55.3	54.3
77.5°	26.0	30.0	34.1	38.3	40.1	41.3	41.7	42.4	41.8	41.1	40.6
80°	20.0	20.9	23.7	27.3	30.2	31.3	32.1	32.4	32.3	32.1	31.3
82.5°	14.5	15.2	16.6	19.2	21.5	23.4	23.9	23.8	24.2	24.4	23.7
85°	7.8	8.0	8.4	8.7	10.0	12.1	12.7	13.1	13.5	13.5	12.3
87.5°	6.9	6.0	5.6	5.1	4.9	4.6	4.9	5.1	5.8	5.7	6.3
90°	22.4	18.8	15.3	12.1	9.5	6.7	4.0	1.2	4.0	6.7	9.5
92.5°	43.1	41.2	39.1	37.2	35.3	33.4	31.6	29.8	31.6	33.4	35.3
95°	86.6	84.4	82.3	80.2	78.3	76.4	74.4	72.6	74.4	76.4	78.3
97.5°	139.2	137.6	136.0	134.5	133.1	131.7	130.3	128.8	130.3	131.7	133.1
100°	178.0	176.6	175.3	173.7	172.1	170.5	168.8	167.2	168.8	170.5	172.1
102.5°	220.4	218.6	216.8	215.4	214.4	213.4	212.5	211.5	212.5	213.4	214.4
105°	285.2	282.7	280.3	278.8	278.3	277.7	277.2	276.6	277.2	277.7	278.3
107.5°	356.3	355.3	354.3	353.7	353.4	353.0	352.7	352.4	352.7	353.0	353.4
110°	403.4	402.8	402.3	401.8	401.2	400.6	400.1	399.6	400.1	400.6	401.2



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CATALOG NUMBER: S123RDIW-S340D1535U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	450.5	450.4	450.3	450.0	449.7	449.4	449.1	448.7	449.1	449.4	449.7
115°	524.8	525.4	525.9	525.8	525.0	524.2	523.3	522.5	523.3	524.2	525.0
117.5°	597.5	598.2	598.8	598.9	598.4	597.9	597.3	596.8	597.3	597.9	598.4
120°	646.9	648.3	649.7	649.5	647.9	646.3	644.7	643.0	644.7	646.3	647.9
122.5°	694.8	695.5	696.3	696.0	694.8	693.6	692.4	691.2	692.4	693.6	694.8
125°	767.0	767.6	768.1	768.0	767.2	766.4	765.5	764.7	765.5	766.4	767.2
127.5°	838.9	839.5	840.2	839.6	837.8	836.1	834.3	832.6	834.3	836.1	837.8
130°	885.6	886.4	887.2	886.6	884.4	882.2	880.0	877.8	880.0	882.2	884.4
132.5°	931.4	932.0	932.6	931.8	929.6	927.4	925.2	923.1	925.2	927.4	929.6
135°	998.8	999.1	999.4	998.7	997.0	995.4	993.8	992.1	993.8	995.4	997.0
137.5°	1064.0	1063.3	1062.6	1061.5	1060.2	1058.8	1057.4	1056.1	1057.4	1058.8	1060.2
140°	1107.2	1106.9	1106.6	1105.8	1104.4	1103.1	1101.7	1100.3	1101.7	1103.1	1104.4
142.5°	1148.0	1147.5	1147.0	1146.1	1144.8	1143.4	1142.0	1140.7	1142.0	1143.4	1144.8
145°	1208.1	1207.3	1206.5	1205.8	1205.3	1204.7	1204.2	1203.6	1204.2	1204.7	1205.3
147.5°	1265.0	1264.3	1263.5	1262.7	1261.7	1260.6	1259.6	1258.7	1259.6	1260.6	1261.7
150°	1300.9	1300.3	1299.8	1299.3	1298.7	1298.1	1297.6	1297.1	1297.6	1298.1	1298.7
152.5°	1332.8	1332.4	1332.1	1331.5	1330.8	1330.1	1329.3	1328.5	1329.3	1330.1	1330.8
155°	1378.8	1378.6	1378.3	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2
157.5°	1419.5	1419.4	1419.1	1419.2	1419.5	1419.8	1420.2	1420.5	1420.2	1419.8	1419.5
160°	1444.5	1444.5	1444.5	1444.9	1445.4	1445.9	1446.5	1447.1	1446.5	1445.9	1445.4
162.5°	1467.8	1467.5	1467.3	1467.6	1468.4	1469.1	1469.9	1470.6	1469.9	1469.1	1468.4
165°	1497.5	1497.5	1497.5	1497.9	1498.7	1499.5	1500.3	1501.1	1500.3	1499.5	1498.7
167.5°	1521.1	1520.9	1520.7	1521.1	1522.2	1523.3	1524.4	1525.5	1524.4	1523.3	1522.2
170°	1534.3	1534.3	1534.3	1534.9	1535.9	1537.1	1538.1	1539.2	1538.1	1537.1	1535.9
172.5°	1545.2	1545.2	1545.2	1545.7	1546.8	1547.8	1549.0	1550.0	1549.0	1547.8	1546.8
175°	1556.5	1556.5	1556.5	1557.0	1558.1	1559.2	1560.3	1561.4	1560.3	1559.2	1558.1
177.5°	1562.1	1562.1	1562.1	1562.5	1563.4	1564.3	1565.2	1566.0	1565.2	1564.3	1563.4
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	436.1	434.1	432.8	429.7	427.8	425.7	423.5	424.9	424.7	424.6	424.6
5°	421.5	417.1	413.1	408.0	404.8	400.8	397.8	397.4	398.1	395.5	394.0
7.5°	407.0	401.0	395.3	389.7	383.7	378.9	375.9	374.5	372.6	371.0	369.2
10°	396.8	389.8	384.3	377.2	370.8	365.1	361.5	359.0	357.7	356.4	353.8
12.5°	386.3	379.4	372.4	364.4	358.3	351.7	349.0	346.3	343.7	342.2	338.8
15°	371.0	362.1	354.7	346.3	339.4	333.0	329.2	323.7	322.9	321.0	317.6
17.5°	355.6	345.9	335.7	329.5	321.8	315.0	309.2	307.4	302.0	299.9	296.9
20°	343.4	334.5	326.7	318.5	307.4	301.1	296.5	294.1	289.7	287.0	285.1
22.5°	333.0	323.8	314.9	305.3	296.1	289.0	285.7	281.8	279.5	275.7	273.7
25°	318.0	308.1	297.3	287.0	280.4	275.1	269.7	266.3	262.9	261.1	257.4
27.5°	300.6	290.2	280.1	272.3	264.2	258.9	254.1	251.1	247.0	244.1	242.0
30°	291.0	278.8	270.1	263.1	252.7	247.7	244.1	240.3	237.3	234.2	232.1
32.5°	279.9	268.8	260.6	251.8	243.9	238.4	233.7	230.4	227.8	224.9	222.8
35°	262.5	253.2	244.7	235.9	230.0	224.5	219.0	216.1	213.7	211.0	209.1
37.5°	246.8	238.1	229.9	221.7	214.3	209.9	205.5	203.3	199.9	198.1	196.2
40°	237.1	228.5	219.8	211.8	204.2	200.8	196.8	193.6	190.5	189.1	187.1
42.5°	226.4	217.8	210.5	201.9	195.7	191.0	187.4	183.8	181.6	179.6	178.5
45°	210.7	203.1	195.8	187.3	181.4	177.4	173.3	170.0	168.0	166.6	164.5
47.5°	195.3	187.8	180.4	173.0	167.3	162.7	158.5	156.3	153.5	151.9	150.5
50°	184.3	177.4	169.7	162.8	157.1	152.5	149.1	146.3	143.8	141.7	140.7
52.5°	174.1	166.8	160.0	153.7	147.7	142.5	139.4	136.4	134.5	132.2	131.0
55°	157.3	150.3	144.6	138.3	132.4	128.0	124.3	121.6	119.7	117.0	115.5
57.5°	141.5	135.2	128.4	122.9	116.9	113.2	110.1	106.5	104.1	102.1	100.5
60°	130.9	123.7	117.7	112.7	107.3	102.6	99.7	96.9	94.4	92.3	91.0
62.5°	119.8	113.5	107.9	102.3	97.4	93.3	90.0	87.6	85.4	84.1	82.8
65°	102.7	97.8	92.1	87.6	83.0	80.0	77.3	75.3	73.7	72.7	71.6
67.5°	87.1	82.3	77.4	72.9	69.8	67.5	65.8	64.0	63.2	62.0	61.2
70°	77.0	72.0	67.6	64.2	61.1	59.4	58.3	57.0	56.3	54.7	54.0
72.5°	65.9	62.3	59.1	56.3	53.9	52.3	50.9	49.2	48.0	46.3	45.6
75°	51.9	48.6	46.1	44.3	42.7	40.7	38.6	36.9	36.3	35.7	35.5
77.5°	38.4	36.4	34.6	32.9	31.1	29.6	29.1	28.7	28.6	28.3	28.3
80°	30.2	28.3	27.0	25.1	24.0	24.0	24.0	23.6	23.7	23.7	23.7
82.5°	22.4	20.7	20.0	19.3	19.1	19.2	19.2	19.3	19.2	19.5	19.3
85°	11.6	11.7	12.1	12.0	12.1	12.1	12.6	12.3	12.6	12.1	12.6
87.5°	6.7	7.7	8.6	9.5	10.4	10.9	11.3	11.5	11.9	12.1	12.2
90°	12.1	15.3	18.8	22.4	25.9	29.5	30.6	31.7	32.8	33.9	34.7
92.5°	37.2	39.1	41.2	43.1	45.2	47.2	48.1	48.9	49.8	50.7	51.0
95°	80.2	82.3	84.4	86.6	88.8	91.0	92.0	93.2	94.2	95.3	95.9
97.5°	134.5	136.0	137.6	139.2	140.8	142.4	143.7	144.9	146.1	147.4	148.0
100°	173.7	175.3	176.6	178.0	179.4	180.8	181.6	182.4	183.2	184.0	184.7
102.5°	215.4	216.8	218.6	220.4	222.2	224.0	224.9	225.7	226.5	227.3	227.6
105°	278.8	280.3	282.7	285.2	287.7	290.2	290.2	290.2	290.2	290.2	290.4
107.5°	353.7	354.3	355.3	356.3	357.3	358.2	359.1	360.0	360.9	361.7	362.0
110°	401.8	402.3	402.8	403.4	403.9	404.5	405.6	406.7	407.7	408.9	409.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	450.0	450.3	450.4	450.5	450.6	450.7	452.0	453.3	454.6	455.9	456.6
115°	525.8	525.9	525.4	524.8	524.3	523.7	524.0	524.3	524.6	524.8	524.8
117.5°	598.9	598.8	598.2	597.5	596.7	596.1	596.0	595.9	595.9	595.8	595.4
120°	649.5	649.7	648.3	646.9	645.6	644.2	643.9	643.7	643.4	643.1	642.7
122.5°	696.0	696.3	695.5	694.8	694.1	693.4	692.7	691.9	691.3	690.6	689.8
125°	768.0	768.1	767.6	767.0	766.5	766.0	764.8	763.8	762.6	761.6	760.4
127.5°	839.6	840.2	839.5	838.9	838.4	837.7	836.2	834.7	833.2	831.6	830.2
130°	886.6	887.2	886.4	885.6	884.8	883.9	882.9	881.7	880.7	879.6	878.1
132.5°	931.8	932.6	932.0	931.4	930.7	930.2	928.9	927.6	926.3	925.0	923.6
135°	998.7	999.4	999.1	998.8	998.6	998.3	997.2	996.1	995.0	993.9	993.1
137.5°	1061.5	1062.6	1063.3	1064.0	1064.7	1065.4	1064.3	1063.2	1062.0	1060.9	1059.7
140°	1105.8	1106.6	1106.9	1107.2	1107.4	1107.7	1107.4	1107.2	1106.9	1106.6	1105.5
142.5°	1146.1	1147.0	1147.5	1148.0	1148.5	1149.0	1148.8	1148.5	1148.2	1147.9	1147.0
145°	1205.8	1206.5	1207.3	1208.1	1208.9	1209.7	1209.5	1209.2	1208.9	1208.7	1207.9
147.5°	1262.7	1263.5	1264.3	1265.0	1265.8	1266.6	1266.6	1266.6	1266.6	1266.6	1265.8
150°	1299.3	1299.8	1300.3	1300.9	1301.4	1302.0	1302.0	1302.0	1302.0	1302.0	1301.1
152.5°	1331.5	1332.1	1332.4	1332.8	1333.1	1333.4	1333.9	1334.3	1334.7	1335.2	1334.7
155°	1378.2	1378.3	1378.6	1378.8	1379.2	1379.4	1380.5	1381.6	1382.7	1383.8	1383.4
157.5°	1419.2	1419.1	1419.4	1419.5	1419.8	1420.0	1421.1	1422.3	1423.4	1424.6	1424.4
160°	1444.9	1444.5	1444.5	1444.5	1444.5	1444.5	1445.9	1447.3	1448.7	1450.0	1450.2
162.5°	1467.6	1467.3	1467.5	1467.8	1467.9	1468.2	1469.6	1470.9	1472.3	1473.7	1473.5
165°	1497.9	1497.5	1497.5	1497.5	1497.5	1497.5	1499.1	1500.7	1502.4	1504.0	1503.9
167.5°	1521.1	1520.7	1520.9	1521.1	1521.3	1521.5	1523.2	1524.9	1526.6	1528.3	1528.3
170°	1534.9	1534.3	1534.3	1534.3	1534.3	1534.3	1536.3	1538.1	1540.1	1542.0	1542.0
172.5°	1545.7	1545.2	1545.2	1545.2	1545.2	1545.2	1546.9	1548.5	1550.2	1551.9	1551.8
175°	1557.0	1556.5	1556.5	1556.5	1556.5	1556.5	1558.1	1559.7	1561.4	1563.0	1562.8
177.5°	1562.5	1562.1	1562.1	1562.1	1562.1	1562.1	1563.4	1564.7	1566.0	1567.3	1567.2
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	422.7	422.6	422.7	422.2	422.7	422.6	422.7	424.6	424.6	424.7	424.9
5°	393.4	393.2	392.6	390.9	392.6	393.2	393.4	394.0	395.5	398.1	397.4
7.5°	367.7	367.5	365.8	365.8	365.8	367.5	367.7	369.2	371.0	372.6	374.5
10°	352.5	352.7	350.4	349.1	350.4	352.7	352.5	353.8	356.4	357.7	359.0
12.5°	337.8	337.0	335.1	333.6	335.1	337.0	337.8	338.8	342.2	343.7	346.3
15°	318.4	316.4	311.9	312.3	311.9	316.4	318.4	317.6	321.0	322.9	323.7
17.5°	295.5	294.1	294.0	291.3	294.0	294.1	295.5	296.9	299.9	302.0	307.4
20°	282.1	281.1	281.5	278.8	281.5	281.1	282.1	285.1	287.0	289.7	294.1
22.5°	271.6	270.6	269.0	268.2	269.0	270.6	271.6	273.7	275.7	279.5	281.8
25°	256.2	254.7	253.2	254.1	253.2	254.7	256.2	257.4	261.1	262.9	266.3
27.5°	240.9	239.8	238.2	238.1	238.2	239.8	240.9	242.0	244.1	247.0	251.1
30°	231.1	230.0	229.3	228.3	229.3	230.0	231.1	232.1	234.2	237.3	240.3
32.5°	221.3	221.0	219.7	219.5	219.7	221.0	221.3	222.8	224.9	227.8	230.4
35°	208.4	207.2	206.8	207.0	206.8	207.2	208.4	209.1	211.0	213.7	216.1
37.5°	196.1	194.6	193.9	193.2	193.9	194.6	196.1	196.2	198.1	199.9	203.3
40°	187.3	185.8	185.4	185.0	185.4	185.8	187.3	187.1	189.1	190.5	193.6
42.5°	177.4	176.8	176.6	175.9	176.6	176.8	177.4	178.5	179.6	181.6	183.8
45°	164.0	163.7	162.6	163.0	162.6	163.7	164.0	164.5	166.6	168.0	170.0
47.5°	149.7	148.9	148.1	148.6	148.1	148.9	149.7	150.5	151.9	153.5	156.3
50°	140.0	139.6	137.9	138.3	137.9	139.6	140.0	140.7	141.7	143.8	146.3
52.5°	130.3	128.8	128.2	127.9	128.2	128.8	130.3	131.0	132.2	134.5	136.4
55°	114.1	112.4	111.7	111.3	111.7	112.4	114.1	115.5	117.0	119.7	121.6
57.5°	98.3	97.9	97.3	97.7	97.3	97.9	98.3	100.5	102.1	104.1	106.5
60°	89.1	89.1	89.1	88.9	89.1	89.1	89.1	91.0	92.3	94.4	96.9
62.5°	81.9	81.4	81.4	81.6	81.4	81.4	81.9	82.8	84.1	85.4	87.6
65°	71.0	70.8	70.1	69.9	70.1	70.8	71.0	71.6	72.7	73.7	75.3
67.5°	60.7	60.1	59.8	59.6	59.8	60.1	60.7	61.2	62.0	63.2	64.0
70°	53.0	52.6	51.4	51.7	51.4	52.6	53.0	54.0	54.7	56.3	57.0
72.5°	44.7	44.3	44.0	43.8	44.0	44.3	44.7	45.6	46.3	48.0	49.2
75°	35.3	35.1	35.0	35.7	35.0	35.1	35.3	35.5	35.7	36.3	36.9
77.5°	28.3	28.3	28.5	28.1	28.5	28.3	28.3	28.3	28.3	28.6	28.7
80°	23.7	23.7	23.6	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.6
82.5°	19.0	19.2	19.3	19.0	19.3	19.2	19.0	19.3	19.5	19.2	19.3
85°	12.6	12.3	12.7	12.6	12.7	12.3	12.6	12.6	12.1	12.6	12.3
87.5°	12.6	12.5	12.6	12.9	12.6	12.5	12.6	12.2	12.1	11.9	11.5
90°	35.2	35.8	36.4	36.9	36.4	35.8	35.2	34.7	33.9	32.8	31.7
92.5°	50.6	50.3	50.0	49.7	50.0	50.3	50.6	51.0	50.7	49.8	48.9
95°	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.3	94.2	93.2
97.5°	147.9	147.7	147.7	147.6	147.7	147.7	147.9	148.0	147.4	146.1	144.9
100°	185.2	185.8	186.3	186.9	186.3	185.8	185.2	184.7	184.0	183.2	182.4
102.5°	227.6	227.4	227.3	227.2	227.3	227.4	227.6	227.6	227.3	226.5	225.7
105°	291.0	291.6	292.0	292.6	292.0	291.6	291.0	290.4	290.2	290.2	290.2
107.5°	361.7	361.3	361.0	360.7	361.0	361.3	361.7	362.0	361.7	360.9	360.0
110°	408.5	408.1	407.5	406.9	407.5	408.1	408.5	409.1	408.9	407.7	406.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	456.5	456.3	456.2	456.1	456.2	456.3	456.5	456.6	455.9	454.6	453.3
115°	524.6	524.3	524.0	523.7	524.0	524.3	524.6	524.8	524.8	524.6	524.3
117.5°	594.6	593.9	593.1	592.3	593.1	593.9	594.6	595.4	595.8	595.9	595.9
120°	642.2	641.6	641.1	640.5	641.1	641.6	642.2	642.7	643.1	643.4	643.7
122.5°	689.1	688.3	687.5	686.7	687.5	688.3	689.1	689.8	690.6	691.3	691.9
125°	759.4	758.3	757.2	756.1	757.2	758.3	759.4	760.4	761.6	762.6	763.8
127.5°	829.0	827.7	826.5	825.2	826.5	827.7	829.0	830.2	831.6	833.2	834.7
130°	876.2	874.2	872.4	870.4	872.4	874.2	876.2	878.1	879.6	880.7	881.7
132.5°	922.1	920.6	919.1	917.6	919.1	920.6	922.1	923.6	925.0	926.3	927.6
135°	992.5	992.0	991.5	990.9	991.5	992.0	992.5	993.1	993.9	995.0	996.1
137.5°	1058.7	1057.7	1056.6	1055.6	1056.6	1057.7	1058.7	1059.7	1060.9	1062.0	1063.2
140°	1103.6	1101.7	1099.8	1097.9	1099.8	1101.7	1103.6	1105.5	1106.6	1106.9	1107.2
142.5°	1145.6	1144.1	1142.6	1141.2	1142.6	1144.1	1145.6	1147.0	1147.9	1148.2	1148.5
145°	1206.9	1205.8	1204.7	1203.6	1204.7	1205.8	1206.9	1207.9	1208.7	1208.9	1209.2
147.5°	1264.1	1262.5	1260.8	1259.1	1260.8	1262.5	1264.1	1265.8	1266.6	1266.6	1266.6
150°	1299.5	1297.9	1296.2	1294.6	1296.2	1297.9	1299.5	1301.1	1302.0	1302.0	1302.0
152.5°	1333.3	1331.9	1330.4	1329.0	1330.4	1331.9	1333.3	1334.7	1335.2	1334.7	1334.3
155°	1381.4	1379.6	1377.6	1375.7	1377.6	1379.6	1381.4	1383.4	1383.8	1382.7	1381.6
157.5°	1422.9	1421.3	1419.8	1418.3	1419.8	1421.3	1422.9	1424.4	1424.6	1423.4	1422.3
160°	1449.1	1448.0	1446.9	1445.8	1446.9	1448.0	1449.1	1450.2	1450.0	1448.7	1447.3
162.5°	1471.7	1470.0	1468.2	1466.5	1468.2	1470.0	1471.7	1473.5	1473.7	1472.3	1470.9
165°	1501.9	1500.1	1498.1	1496.2	1498.1	1500.1	1501.9	1503.9	1504.0	1502.4	1500.7
167.5°	1526.6	1524.9	1523.2	1521.5	1523.2	1524.9	1526.6	1528.3	1528.3	1526.6	1524.9
170°	1540.1	1538.1	1536.3	1534.3	1536.3	1538.1	1540.1	1542.0	1542.0	1540.1	1538.1
172.5°	1549.9	1548.0	1546.1	1544.2	1546.1	1548.0	1549.9	1551.8	1551.9	1550.2	1548.5
175°	1561.0	1559.0	1557.1	1555.3	1557.1	1559.0	1561.0	1562.8	1563.0	1561.4	1559.7
177.5°	1565.7	1564.2	1562.7	1561.1	1562.7	1564.2	1565.7	1567.2	1567.3	1566.0	1564.7
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	423.5	425.7	427.8	429.7	432.8	434.1	436.1	436.9	439.1	442.5	445.2
5°	397.8	400.8	404.8	408.0	413.1	417.1	421.5	425.7	430.6	437.7	443.9
7.5°	375.9	378.9	383.7	389.7	395.3	401.0	407.0	412.7	419.7	429.8	439.8
10°	361.5	365.1	370.8	377.2	384.3	389.8	396.8	404.0	412.8	424.4	436.3
12.5°	349.0	351.7	358.3	364.4	372.4	379.4	386.3	394.8	404.7	417.0	431.5
15°	329.2	333.0	339.4	346.3	354.7	362.1	371.0	381.2	390.9	406.1	423.5
17.5°	309.2	315.0	321.8	329.5	335.7	345.9	355.6	366.1	378.1	394.1	413.4
20°	296.5	301.1	307.4	318.5	326.7	334.5	343.4	356.5	367.5	385.8	405.7
22.5°	285.7	289.0	296.1	305.3	314.9	323.8	333.0	345.4	359.1	376.3	397.9
25°	269.7	275.1	280.4	287.0	297.3	308.1	318.0	328.6	343.1	361.5	384.8
27.5°	254.1	258.9	264.2	272.3	280.1	290.2	300.6	312.7	328.2	347.7	371.5
30°	244.1	247.7	252.7	263.1	270.1	278.8	291.0	301.8	316.3	337.0	362.1
32.5°	233.7	238.4	243.9	251.8	260.6	268.8	279.9	291.6	306.4	326.8	352.5
35°	219.0	224.5	230.0	235.9	244.7	253.2	262.5	275.4	290.4	310.2	335.4
37.5°	205.5	209.9	214.3	221.7	229.9	238.1	246.8	259.5	273.6	295.0	318.1
40°	196.8	200.8	204.2	211.8	219.8	228.5	237.1	248.3	263.4	283.4	305.8
42.5°	187.4	191.0	195.7	201.9	210.5	217.8	226.4	237.0	251.3	271.6	291.2
45°	173.3	177.4	181.4	187.3	195.8	203.1	210.7	220.7	235.4	252.1	269.5
47.5°	158.5	162.7	167.3	173.0	180.4	187.8	195.3	204.2	217.6	234.0	245.8
50°	149.1	152.5	157.1	162.8	169.7	177.4	184.3	194.0	206.7	219.6	229.8
52.5°	139.4	142.5	147.7	153.7	160.0	166.8	174.1	182.4	193.9	206.0	214.2
55°	124.3	128.0	132.4	138.3	144.6	150.3	157.3	165.8	175.0	184.1	189.6
57.5°	110.1	113.2	116.9	122.9	128.4	135.2	141.5	148.1	156.6	163.5	167.1
60°	99.7	102.6	107.3	112.7	117.7	123.7	130.9	137.5	144.0	149.5	152.3
62.5°	90.0	93.3	97.4	102.3	107.9	113.5	119.8	125.4	131.1	135.8	137.8
65°	77.3	80.0	83.0	87.6	92.1	97.8	102.7	108.4	112.7	115.3	117.0
67.5°	65.8	67.5	69.8	72.9	77.4	82.3	87.1	91.6	95.1	96.9	98.4
70°	58.3	59.4	61.1	64.2	67.6	72.0	77.0	80.1	83.2	84.7	86.3
72.5°	50.9	52.3	53.9	56.3	59.1	62.3	65.9	69.8	71.5	73.3	74.2
75°	38.6	40.7	42.7	44.3	46.1	48.6	51.9	54.3	55.3	56.8	57.0
77.5°	29.1	29.6	31.1	32.9	34.6	36.4	38.4	40.6	41.1	41.8	42.4
80°	24.0	24.0	24.0	25.1	27.0	28.3	30.2	31.3	32.1	32.3	32.4
82.5°	19.2	19.2	19.1	19.3	20.0	20.7	22.4	23.7	24.4	24.2	23.8
85°	12.6	12.1	12.1	12.0	12.1	11.7	11.6	12.3	13.5	13.5	13.1
87.5°	11.3	10.9	10.4	9.5	8.6	7.7	6.7	6.3	5.7	5.8	5.1
90°	30.6	29.5	25.9	22.4	18.8	15.3	12.1	9.5	6.7	4.0	1.2
92.5°	48.1	47.2	45.2	43.1	41.2	39.1	37.2	35.3	33.4	31.6	29.8
95°	92.0	91.0	88.8	86.6	84.4	82.3	80.2	78.3	76.4	74.4	72.6
97.5°	143.7	142.4	140.8	139.2	137.6	136.0	134.5	133.1	131.7	130.3	128.8
100°	181.6	180.8	179.4	178.0	176.6	175.3	173.7	172.1	170.5	168.8	167.2
102.5°	224.9	224.0	222.2	220.4	218.6	216.8	215.4	214.4	213.4	212.5	211.5
105°	290.2	290.2	287.7	285.2	282.7	280.3	278.8	278.3	277.7	277.2	276.6
107.5°	359.1	358.2	357.3	356.3	355.3	354.3	353.7	353.4	353.0	352.7	352.4
110°	405.6	404.5	403.9	403.4	402.8	402.3	401.8	401.2	400.6	400.1	399.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	452.0	450.7	450.6	450.5	450.4	450.3	450.0	449.7	449.4	449.1	448.7
115°	524.0	523.7	524.3	524.8	525.4	525.9	525.8	525.0	524.2	523.3	522.5
117.5°	596.0	596.1	596.7	597.5	598.2	598.8	598.9	598.4	597.9	597.3	596.8
120°	643.9	644.2	645.6	646.9	648.3	649.7	649.5	647.9	646.3	644.7	643.0
122.5°	692.7	693.4	694.1	694.8	695.5	696.3	696.0	694.8	693.6	692.4	691.2
125°	764.8	766.0	766.5	767.0	767.6	768.1	768.0	767.2	766.4	765.5	764.7
127.5°	836.2	837.7	838.4	838.9	839.5	840.2	839.6	837.8	836.1	834.3	832.6
130°	882.9	883.9	884.8	885.6	886.4	887.2	886.6	884.4	882.2	880.0	877.8
132.5°	928.9	930.2	930.7	931.4	932.0	932.6	931.8	929.6	927.4	925.2	923.1
135°	997.2	998.3	998.6	998.8	999.1	999.4	998.7	997.0	995.4	993.8	992.1
137.5°	1064.3	1065.4	1064.7	1064.0	1063.3	1062.6	1061.5	1060.2	1058.8	1057.4	1056.1
140°	1107.4	1107.7	1107.4	1107.2	1106.9	1106.6	1105.8	1104.4	1103.1	1101.7	1100.3
142.5°	1148.8	1149.0	1148.5	1148.0	1147.5	1147.0	1146.1	1144.8	1143.4	1142.0	1140.7
145°	1209.5	1209.7	1208.9	1208.1	1207.3	1206.5	1205.8	1205.3	1204.7	1204.2	1203.6
147.5°	1266.6	1266.6	1265.8	1265.0	1264.3	1263.5	1262.7	1261.7	1260.6	1259.6	1258.7
150°	1302.0	1302.0	1301.4	1300.9	1300.3	1299.8	1299.3	1298.7	1298.1	1297.6	1297.1
152.5°	1333.9	1333.4	1333.1	1332.8	1332.4	1332.1	1331.5	1330.8	1330.1	1329.3	1328.5
155°	1380.5	1379.4	1379.2	1378.8	1378.6	1378.3	1378.2	1378.2	1378.2	1378.2	1378.2
157.5°	1421.1	1420.0	1419.8	1419.5	1419.4	1419.1	1419.2	1419.5	1419.8	1420.2	1420.5
160°	1445.9	1444.5	1444.5	1444.5	1444.5	1444.5	1444.9	1445.4	1445.9	1446.5	1447.1
162.5°	1469.6	1468.2	1467.9	1467.8	1467.5	1467.3	1467.6	1468.4	1469.1	1469.9	1470.6
165°	1499.1	1497.5	1497.5	1497.5	1497.5	1497.5	1497.9	1498.7	1499.5	1500.3	1501.1
167.5°	1523.2	1521.5	1521.3	1521.1	1520.9	1520.7	1521.1	1522.2	1523.3	1524.4	1525.5
170°	1536.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.9	1535.9	1537.1	1538.1	1539.2
172.5°	1546.9	1545.2	1545.2	1545.2	1545.2	1545.2	1545.7	1546.8	1547.8	1549.0	1550.0
175°	1558.1	1556.5	1556.5	1556.5	1556.5	1556.5	1557.0	1558.1	1559.2	1560.3	1561.4
177.5°	1563.4	1562.1	1562.1	1562.1	1562.1	1562.1	1562.5	1563.4	1564.3	1565.2	1566.0
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	446.1	447.8	450.0	453.1	455.6	457.7	458.1	458.8	460.3	462.8	464.8
5°	449.1	453.4	460.4	467.2	474.7	480.8	486.5	490.5	494.2	502.2	508.7
7.5°	448.1	457.9	468.9	481.1	493.6	505.6	516.7	526.8	536.7	548.4	561.6
10°	447.5	458.9	473.8	489.5	506.8	523.7	540.1	552.8	567.5	580.9	597.8
12.5°	444.7	461.1	478.7	498.9	520.2	539.6	561.2	578.7	595.7	614.9	634.5
15°	440.8	460.8	483.2	510.0	542.3	565.8	587.9	618.5	639.4	660.2	688.4
17.5°	434.0	458.4	486.3	521.1	548.0	579.8	612.9	637.1	665.2	694.6	720.1
20°	428.5	456.8	488.2	522.4	556.8	591.1	623.2	652.1	681.2	715.2	736.1
22.5°	423.1	451.0	483.6	519.9	556.8	593.1	629.4	663.3	696.0	730.3	757.0
25°	411.4	444.7	480.0	517.1	553.5	593.4	636.7	674.5	714.9	750.3	775.6
27.5°	399.7	430.2	465.3	502.9	543.4	590.5	641.5	684.4	725.0	750.3	758.2
30°	389.0	421.3	453.6	491.8	535.7	588.2	642.4	691.6	724.8	735.9	727.7
32.5°	378.2	407.5	439.4	478.6	525.1	582.6	643.6	687.4	707.4	699.0	665.7
35°	359.2	385.6	416.5	455.7	509.2	579.5	638.6	668.2	663.3	615.8	553.1
37.5°	338.8	360.4	389.0	429.9	492.8	567.2	617.0	621.4	578.6	505.7	433.3
40°	322.7	342.1	371.5	414.3	480.0	555.1	595.3	577.6	511.4	430.2	369.8
42.5°	307.0	323.4	351.8	397.9	467.8	538.4	563.0	524.5	448.0	371.3	316.3
45°	280.5	296.0	324.4	371.7	443.0	506.8	503.5	436.7	360.1	298.4	252.8
47.5°	255.4	268.9	295.6	343.9	413.8	459.3	429.1	357.9	293.0	243.4	210.9
50°	237.7	250.9	277.5	325.2	390.4	423.5	380.5	311.9	252.4	211.4	185.6
52.5°	220.6	233.6	257.9	304.4	362.1	382.0	335.7	272.1	222.5	187.1	164.9
55°	196.8	206.7	228.5	273.0	316.1	320.7	273.7	220.5	179.7	155.0	139.8
57.5°	172.5	181.0	202.6	238.0	268.2	265.9	221.4	175.4	147.9	129.6	118.5
60°	156.7	165.1	184.1	214.4	237.3	229.3	188.4	151.4	127.8	114.4	105.6
62.5°	141.9	148.5	166.3	188.5	204.9	195.8	161.1	130.4	111.7	100.4	93.4
65°	120.6	126.0	140.1	151.8	160.9	152.1	123.3	102.0	88.5	80.6	75.8
67.5°	100.4	103.7	112.7	116.9	123.4	113.7	92.7	78.4	70.8	64.1	60.7
70°	87.6	90.0	94.8	98.2	99.9	90.0	74.4	64.0	57.6	52.8	50.7
72.5°	74.8	77.0	77.9	80.7	79.8	70.6	59.8	51.5	46.9	43.7	41.0
75°	57.2	58.1	57.2	56.0	53.6	47.1	39.7	35.5	32.1	30.6	29.6
77.5°	41.7	41.3	40.1	38.3	34.1	30.0	26.0	24.6	23.2	22.3	22.0
80°	32.1	31.3	30.2	27.3	23.7	20.9	20.0	19.0	18.4	17.4	17.3
82.5°	23.9	23.4	21.5	19.2	16.6	15.2	14.5	14.1	13.5	13.0	13.0
85°	12.7	12.1	10.0	8.7	8.4	8.0	7.8	7.8	7.0	6.8	6.8
87.5°	4.9	4.6	4.9	5.1	5.6	6.0	6.9	7.3	7.9	8.2	8.2
90°	4.0	6.7	9.5	12.1	15.3	18.8	22.4	25.9	29.5	30.6	31.7
92.5°	31.6	33.4	35.3	37.2	39.1	41.2	43.1	45.2	47.2	48.1	48.9
95°	74.4	76.4	78.3	80.2	82.3	84.4	86.6	88.8	91.0	92.0	93.2
97.5°	130.3	131.7	133.1	134.5	136.0	137.6	139.2	140.8	142.4	143.7	144.9
100°	168.8	170.5	172.1	173.7	175.3	176.6	178.0	179.4	180.8	181.6	182.4
102.5°	212.5	213.4	214.4	215.4	216.8	218.6	220.4	222.2	224.0	224.9	225.7
105°	277.2	277.7	278.3	278.8	280.3	282.7	285.2	287.7	290.2	290.2	290.2
107.5°	352.7	353.0	353.4	353.7	354.3	355.3	356.3	357.3	358.2	359.1	360.0
110°	400.1	400.6	401.2	401.8	402.3	402.8	403.4	403.9	404.5	405.6	406.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	449.1	449.4	449.7	450.0	450.3	450.4	450.5	450.6	450.7	452.0	453.3
115°	523.3	524.2	525.0	525.8	525.9	525.4	524.8	524.3	523.7	524.0	524.3
117.5°	597.3	597.9	598.4	598.9	598.8	598.2	597.5	596.7	596.1	596.0	595.9
120°	644.7	646.3	647.9	649.5	649.7	648.3	646.9	645.6	644.2	643.9	643.7
122.5°	692.4	693.6	694.8	696.0	696.3	695.5	694.8	694.1	693.4	692.7	691.9
125°	765.5	766.4	767.2	768.0	768.1	767.6	767.0	766.5	766.0	764.8	763.8
127.5°	834.3	836.1	837.8	839.6	840.2	839.5	838.9	838.4	837.7	836.2	834.7
130°	880.0	882.2	884.4	886.6	887.2	886.4	885.6	884.8	883.9	882.9	881.7
132.5°	925.2	927.4	929.6	931.8	932.6	932.0	931.4	930.7	930.2	928.9	927.6
135°	993.8	995.4	997.0	998.7	999.4	999.1	998.8	998.6	998.3	997.2	996.1
137.5°	1057.4	1058.8	1060.2	1061.5	1062.6	1063.3	1064.0	1064.7	1065.4	1064.3	1063.2
140°	1101.7	1103.1	1104.4	1105.8	1106.6	1106.9	1107.2	1107.4	1107.7	1107.4	1107.2
142.5°	1142.0	1143.4	1144.8	1146.1	1147.0	1147.5	1148.0	1148.5	1149.0	1148.8	1148.5
145°	1204.2	1204.7	1205.3	1205.8	1206.5	1207.3	1208.1	1208.9	1209.7	1209.5	1209.2
147.5°	1259.6	1260.6	1261.7	1262.7	1263.5	1264.3	1265.0	1265.8	1266.6	1266.6	1266.6
150°	1297.6	1298.1	1298.7	1299.3	1299.8	1300.3	1300.9	1301.4	1302.0	1302.0	1302.0
152.5°	1329.3	1330.1	1330.8	1331.5	1332.1	1332.4	1332.8	1333.1	1333.4	1333.9	1334.3
155°	1378.2	1378.2	1378.2	1378.2	1378.3	1378.6	1378.8	1379.2	1379.4	1380.5	1381.6
157.5°	1420.2	1419.8	1419.5	1419.2	1419.1	1419.4	1419.5	1419.8	1420.0	1421.1	1422.3
160°	1446.5	1445.9	1445.4	1444.9	1444.5	1444.5	1444.5	1444.5	1444.5	1445.9	1447.3
162.5°	1469.9	1469.1	1468.4	1467.6	1467.3	1467.5	1467.8	1467.9	1468.2	1469.6	1470.9
165°	1500.3	1499.5	1498.7	1497.9	1497.5	1497.5	1497.5	1497.5	1497.5	1499.1	1500.7
167.5°	1524.4	1523.3	1522.2	1521.1	1520.7	1520.9	1521.1	1521.3	1521.5	1523.2	1524.9
170°	1538.1	1537.1	1535.9	1534.9	1534.3	1534.3	1534.3	1534.3	1534.3	1536.3	1538.1
172.5°	1549.0	1547.8	1546.8	1545.7	1545.2	1545.2	1545.2	1545.2	1545.2	1546.9	1548.5
175°	1560.3	1559.2	1558.1	1557.0	1556.5	1556.5	1556.5	1556.5	1556.5	1558.1	1559.7
177.5°	1565.2	1564.3	1563.4	1562.5	1562.1	1562.1	1562.1	1562.1	1562.1	1563.4	1564.7
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	468.1	468.1	468.6	470.9	471.2	473.2	472.6
5°	514.4	518.0	519.3	525.1	528.4	529.9	526.9
7.5°	571.0	581.2	586.0	592.1	597.3	598.9	594.8
10°	612.4	623.1	631.9	637.5	642.6	646.0	650.4
12.5°	652.3	665.4	673.9	681.7	687.0	691.3	692.0
15°	695.8	715.5	730.5	741.6	747.1	749.9	748.8
17.5°	739.6	757.9	768.6	779.8	787.4	787.8	788.1
20°	764.3	782.2	794.6	802.9	811.5	811.1	813.0
22.5°	780.9	795.0	804.5	810.5	813.4	812.0	812.4
25°	788.6	792.9	791.2	781.5	778.9	770.1	771.6
27.5°	748.7	729.0	708.5	682.2	661.5	644.9	645.7
30°	694.5	659.5	619.6	586.2	556.2	547.8	529.9
32.5°	618.6	566.2	519.5	488.3	462.6	455.6	440.0
35°	490.1	439.1	391.1	362.2	350.8	334.8	334.7
37.5°	380.9	336.1	310.7	289.0	277.7	268.0	267.1
40°	320.4	285.5	266.3	250.7	239.5	232.3	230.6
42.5°	278.2	250.0	232.0	222.3	213.7	209.9	207.2
45°	227.1	208.1	195.7	186.9	183.0	180.1	178.6
47.5°	190.0	177.3	168.8	162.9	159.7	156.7	157.5
50°	169.8	159.4	153.1	147.6	145.1	143.0	143.2
52.5°	153.5	144.1	139.1	135.1	132.1	130.5	129.9
55°	130.3	124.4	119.3	116.4	114.7	112.7	112.1
57.5°	111.1	106.6	102.4	99.2	98.7	96.8	97.0
60°	98.4	94.6	91.2	89.4	88.1	86.4	87.0
62.5°	87.9	84.7	81.6	80.2	78.8	77.6	77.9
65°	72.0	69.0	67.0	66.3	65.7	65.1	64.6
67.5°	57.4	55.5	54.3	52.7	51.5	51.4	50.8
70°	48.3	45.7	43.7	41.6	41.0	40.8	41.0
72.5°	38.6	37.1	36.5	35.5	35.4	34.9	35.2
75°	29.0	28.5	28.1	27.3	27.3	27.3	27.3
77.5°	21.4	21.1	20.9	20.7	20.5	20.2	20.2
80°	16.7	16.6	16.1	16.1	16.0	16.1	16.0
82.5°	12.6	12.6	12.2	12.2	12.0	11.9	12.0
85°	6.4	6.3	6.7	6.3	6.4	6.1	6.4
87.5°	8.4	8.6	8.6	8.7	8.6	9.1	8.9
90°	32.8	33.9	34.7	35.2	35.8	36.4	36.9
92.5°	49.8	50.7	51.0	50.6	50.3	50.0	49.7
95°	94.2	95.3	95.9	95.9	95.9	95.9	95.9
97.5°	146.1	147.4	148.0	147.9	147.7	147.7	147.6
100°	183.2	184.0	184.7	185.2	185.8	186.3	186.9
102.5°	226.5	227.3	227.6	227.6	227.4	227.3	227.2
105°	290.2	290.2	290.4	291.0	291.6	292.0	292.6
107.5°	360.9	361.7	362.0	361.7	361.3	361.0	360.7
110°	407.7	408.9	409.1	408.5	408.1	407.5	406.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	454.6	455.9	456.6	456.5	456.3	456.2	456.1
115°	524.6	524.8	524.8	524.6	524.3	524.0	523.7
117.5°	595.9	595.8	595.4	594.6	593.9	593.1	592.3
120°	643.4	643.1	642.7	642.2	641.6	641.1	640.5
122.5°	691.3	690.6	689.8	689.1	688.3	687.5	686.7
125°	762.6	761.6	760.4	759.4	758.3	757.2	756.1
127.5°	833.2	831.6	830.2	829.0	827.7	826.5	825.2
130°	880.7	879.6	878.1	876.2	874.2	872.4	870.4
132.5°	926.3	925.0	923.6	922.1	920.6	919.1	917.6
135°	995.0	993.9	993.1	992.5	992.0	991.5	990.9
137.5°	1062.0	1060.9	1059.7	1058.7	1057.7	1056.6	1055.6
140°	1106.9	1106.6	1105.5	1103.6	1101.7	1099.8	1097.9
142.5°	1148.2	1147.9	1147.0	1145.6	1144.1	1142.6	1141.2
145°	1208.9	1208.7	1207.9	1206.9	1205.8	1204.7	1203.6
147.5°	1266.6	1266.6	1265.8	1264.1	1262.5	1260.8	1259.1
150°	1302.0	1302.0	1301.1	1299.5	1297.9	1296.2	1294.6
152.5°	1334.7	1335.2	1334.7	1333.3	1331.9	1330.4	1329.0
155°	1382.7	1383.8	1383.4	1381.4	1379.6	1377.6	1375.7
157.5°	1423.4	1424.6	1424.4	1422.9	1421.3	1419.8	1418.3
160°	1448.7	1450.0	1450.2	1449.1	1448.0	1446.9	1445.8
162.5°	1472.3	1473.7	1473.5	1471.7	1470.0	1468.2	1466.5
165°	1502.4	1504.0	1503.9	1501.9	1500.1	1498.1	1496.2
167.5°	1526.6	1528.3	1528.3	1526.6	1524.9	1523.2	1521.5
170°	1540.1	1542.0	1542.0	1540.1	1538.1	1536.3	1534.3
172.5°	1550.2	1551.9	1551.8	1549.9	1548.0	1546.1	1544.2
175°	1561.4	1563.0	1562.8	1561.0	1559.0	1557.1	1555.3
177.5°	1566.0	1567.3	1567.2	1565.7	1564.2	1562.7	1561.1
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0

(END OF REPORT)