

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: NEO-RAY

Report Number: P332427-930

Luminaire Tested: **S123RDIW-S560D1535U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332427-930  
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-S560D1535U930-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

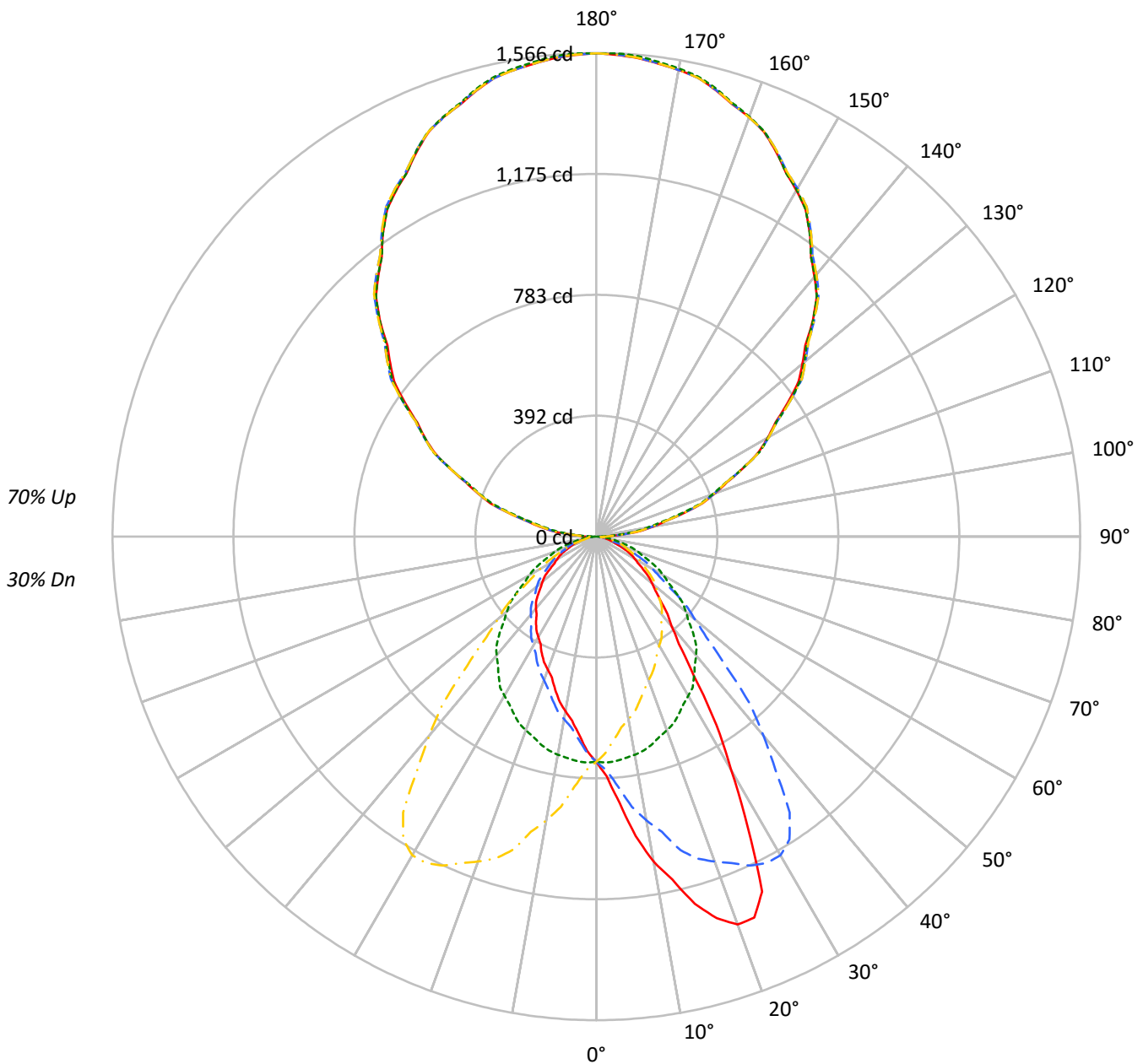
Lumens per Lamp: N/A  
Luminaire Lumens: 6157.2 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



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

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

	0°	90°	180°	270°
0°	7851	7851	7851	7851
5°	9360	7886	6944	7886
10°	11687	7840	6274	7840
15°	13718	7759	5721	7759
20°	15309	7640	5251	7640
25°	15064	7514	4962	7514
30°	10828	7398	4666	7398
35°	7230	7247	4473	7247
40°	5327	7065	4274	7065
45°	4468	6745	4078	6745
50°	3944	6328	3806	6328
55°	3459	5849	3434	5849
60°	3078	5393	3147	5393
65°	2705	4898	2929	4898
70°	2121	4463	2675	4463
75°	1871	3897	2441	3897
80°	1630	3310	2399	3310
85°	1309	2655	2544	2655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.7	1.2
10°-20°	224.1	3.6
20°-30°	352.1	5.7
30°-40°	367.3	6.0
40°-50°	314.4	5.1
50°-60°	239.6	3.9
60°-70°	153.6	2.5
70°-80°	73.9	1.2
80°-90°	24.2	0.4
90°-100°	102.0	1.7
100°-110°	305.2	5.0
110°-120°	519.0	8.4
120°-130°	682.7	11.1
130°-140°	767.4	12.5
140°-150°	754.3	12.3
150°-160°	635.0	10.3
160°-170°	422.7	6.9
170°-180°	148.0	2.4
0°-30°	647.9	10.5
0°-40°	1015.3	16.5
0°-60°	1569.3	25.5
0°-90°	1820.9	29.6
90°-120°	926.2	15.0
90°-150°	3130.5	50.8
90°-180°	4336.0	70.4
0°-180°	6157.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	729	729	729	729	729	
5°	866	730	643	730	866	89
15°	1231	696	513	696	1231	349
25°	1268	633	418	633	1268	545
35°	550	552	340	552	550	361
45°	294	443	268	443	294	231
55°	184	312	183	312	184	167
65°	106	192	115	192	106	104
75°	45	94	59	94	45	48
85°	11	22	21	22	11	13
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°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	776.9	778.0	774.7	774.2	770.5	769.5	769.5	764.2	760.9	756.7	754.2
5°	866.3	871.2	868.8	863.2	853.8	851.6	845.6	836.3	825.7	812.5	806.3
7.5°	977.8	984.6	981.9	973.3	963.5	955.5	938.8	923.2	901.5	882.4	866.0
10°	1069.3	1062.0	1056.5	1048.0	1038.9	1024.3	1006.8	982.8	955.0	933.1	908.7
12.5°	1137.7	1136.5	1129.4	1120.7	1107.9	1094.0	1072.4	1043.2	1010.9	979.3	951.5
15°	1231.0	1232.9	1228.2	1219.1	1201.0	1176.3	1143.9	1131.7	1085.5	1051.1	1016.8
17.5°	1295.6	1295.2	1294.5	1282.0	1263.6	1245.9	1215.9	1183.8	1142.0	1093.6	1047.3
20°	1336.5	1333.4	1334.1	1320.0	1306.3	1286.0	1256.6	1210.1	1175.7	1119.8	1072.0
22.5°	1335.5	1334.9	1337.3	1332.4	1322.5	1306.9	1283.9	1244.6	1200.7	1144.3	1090.5
25°	1268.4	1266.0	1280.7	1284.7	1300.6	1303.4	1296.6	1275.0	1233.5	1175.4	1108.9
27.5°	1061.6	1060.2	1087.4	1121.5	1164.8	1198.4	1230.9	1246.5	1233.5	1191.9	1125.3
30°	871.2	900.6	914.4	963.7	1018.6	1084.2	1141.7	1196.3	1209.7	1191.6	1137.0
32.5°	723.3	748.9	760.4	802.8	854.0	930.8	1017.0	1094.4	1149.1	1162.9	1130.0
35°	550.2	550.6	576.7	595.5	642.9	721.9	805.7	909.3	1012.4	1090.5	1098.6
37.5°	439.0	440.6	456.5	475.2	510.8	552.5	626.2	712.4	831.4	951.3	1021.6
40°	379.1	381.9	393.8	412.2	437.8	469.4	526.8	608.0	707.3	840.7	949.7
42.5°	340.6	345.2	351.3	365.5	381.3	410.9	457.4	520.1	610.3	736.5	862.2
45°	293.5	296.0	300.7	307.3	321.6	342.3	373.5	415.6	490.6	592.1	718.0
47.5°	258.9	257.6	262.5	267.9	277.4	291.5	312.4	346.8	400.3	481.7	588.5
50°	235.5	235.1	238.6	242.6	251.7	262.0	279.2	305.1	347.6	415.0	512.7
52.5°	213.4	214.7	217.1	222.2	228.7	237.0	252.4	271.1	307.6	365.8	447.3
55°	184.3	185.2	188.6	191.4	196.1	204.6	214.3	229.8	254.8	295.4	362.6
57.5°	159.5	159.1	162.4	163.1	168.4	175.2	182.7	194.9	213.0	243.1	288.4
60°	143.0	142.1	144.9	147.1	149.9	155.5	161.8	173.7	188.0	210.2	248.9
62.5°	128.0	127.6	129.6	131.8	134.1	139.3	144.6	153.6	165.0	183.7	214.4
65°	106.2	107.1	108.0	109.0	110.2	113.3	118.4	124.6	132.4	145.5	167.7
67.5°	83.4	84.4	84.7	86.6	89.3	91.2	94.3	99.9	105.3	116.3	129.0
70°	67.4	67.1	67.4	68.4	71.8	75.3	79.3	83.4	86.8	94.7	105.3
72.5°	58.0	57.4	58.2	58.4	60.1	61.0	63.6	67.4	71.8	77.1	84.8
75°	45.0	45.0	45.0	45.0	46.2	46.9	47.8	48.8	50.3	52.7	58.4
77.5°	33.3	33.3	33.8	34.0	34.3	34.7	35.2	36.2	36.7	38.1	40.4
80°	26.3	26.6	26.3	26.6	26.6	27.1	27.5	28.5	28.7	30.3	31.2
82.5°	19.7	19.6	19.7	20.1	20.1	20.7	20.7	21.4	21.5	22.3	23.2
85°	10.6	10.0	10.6	10.3	10.9	10.3	10.6	11.3	11.3	11.6	12.8
87.5°	9.9	10.3	9.6	9.8	9.7	9.8	9.5	9.4	9.6	9.1	8.7
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°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	753.2	752.4	748.9	744.9	739.7	736.2	733.4	732.0	727.5	721.9	718.2
5°	799.7	790.4	780.4	768.2	756.9	745.4	738.3	729.8	719.5	707.9	699.8
7.5°	849.5	831.2	811.4	791.0	770.8	752.7	736.7	723.0	706.6	690.1	678.4
10°	887.8	861.0	833.2	804.7	778.8	754.5	735.7	717.3	697.7	678.6	664.2
12.5°	922.5	887.2	855.2	820.2	787.1	758.0	731.0	709.3	685.7	665.4	649.0
15°	966.5	930.3	891.5	838.5	794.4	757.6	724.8	696.3	667.6	642.7	626.7
17.5°	1007.5	953.1	901.1	856.7	799.6	753.5	713.5	679.5	648.0	621.5	601.9
20°	1024.6	971.8	915.3	858.8	802.6	751.1	704.5	667.0	634.2	604.2	586.1
22.5°	1034.8	975.0	915.5	854.8	795.1	741.5	695.5	654.3	618.7	590.3	567.9
25°	1046.8	975.5	910.0	850.0	789.1	731.0	676.4	632.7	594.3	563.9	540.2
27.5°	1054.6	970.9	893.3	826.7	764.9	707.1	657.0	610.7	571.7	539.6	514.2
30°	1056.1	967.1	880.6	808.5	745.7	692.6	639.5	595.2	554.0	519.9	496.2
32.5°	1058.1	957.9	863.4	786.8	722.5	669.9	621.8	579.4	537.2	503.7	479.5
35°	1049.9	952.8	837.2	749.2	684.9	633.9	590.5	551.5	510.0	477.4	452.8
37.5°	1014.4	932.5	810.1	706.8	639.5	592.4	557.0	523.0	484.9	449.9	426.6
40°	978.7	912.5	789.1	681.1	610.8	562.4	530.5	502.8	465.9	433.1	408.1
42.5°	925.4	885.3	769.2	654.1	578.3	531.7	504.8	478.7	446.5	413.1	389.6
45°	827.9	833.2	728.2	611.1	533.4	486.5	461.2	443.1	414.4	386.9	362.9
47.5°	705.4	755.0	680.2	565.3	486.0	442.0	419.9	404.1	384.7	357.8	335.8
50°	625.5	696.3	641.7	534.6	456.2	412.5	390.7	377.9	361.0	339.7	318.9
52.5°	551.8	627.9	595.3	500.3	424.0	384.0	362.6	352.1	338.8	318.8	299.9
55°	450.0	527.1	519.6	448.7	375.7	339.7	323.5	311.7	302.6	287.6	272.6
57.5°	363.9	437.1	441.0	391.3	333.0	297.6	283.6	274.7	268.7	257.5	243.6
60°	309.8	376.9	390.0	352.5	302.6	271.3	257.6	250.5	245.7	236.7	226.1
62.5°	264.8	322.0	336.8	309.8	273.4	244.1	233.4	226.5	223.3	215.5	206.1
65°	202.7	250.1	264.5	249.5	230.5	207.0	198.3	192.3	189.6	185.2	178.3
67.5°	152.4	187.0	202.8	192.2	185.3	170.5	164.9	161.8	159.2	156.3	150.5
70°	122.4	148.1	164.3	161.4	155.8	148.1	144.0	141.8	139.3	136.8	131.8
72.5°	98.4	116.0	131.3	132.7	128.1	126.5	122.9	122.1	120.5	117.6	114.8
75°	65.3	77.5	88.1	92.1	94.0	95.6	94.0	93.7	93.4	90.9	89.3
77.5°	42.8	49.3	56.0	62.9	65.9	68.0	68.5	69.6	68.8	67.5	66.8
80°	32.8	34.3	39.1	45.0	49.7	51.5	52.7	53.4	53.1	52.7	51.5
82.5°	23.8	25.1	27.3	31.5	35.4	38.6	39.3	39.1	39.9	40.0	39.1
85°	12.8	13.1	13.8	14.3	16.6	20.0	21.0	21.5	22.2	22.2	20.3
87.5°	8.5	7.5	7.3	6.7	6.8	6.6	7.5	8.2	9.0	8.6	9.1
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





TEST NUMBER: P332427-930

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**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°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	717.0	713.7	711.5	706.5	703.3	699.8	696.3	698.5	698.2	698.0	698.0
5°	692.9	685.7	679.2	670.7	665.4	658.9	653.9	653.3	654.5	650.1	647.7
7.5°	669.1	659.3	650.0	640.7	630.8	622.9	618.0	615.7	612.5	609.8	607.0
10°	652.3	640.8	631.7	620.2	609.6	600.2	594.3	590.2	588.0	585.8	581.8
12.5°	635.1	623.8	612.2	599.2	589.1	578.2	573.8	569.2	565.0	562.6	557.0
15°	609.8	595.2	583.0	569.2	558.1	547.4	541.2	532.1	530.8	527.7	522.1
17.5°	584.6	568.7	551.9	541.7	529.0	518.0	508.4	505.4	496.4	493.1	488.2
20°	564.6	549.9	537.1	523.7	505.2	495.0	487.5	483.4	476.2	471.8	468.7
22.5°	547.4	532.4	517.6	502.0	486.7	475.2	469.7	463.4	459.5	453.4	450.0
25°	522.8	506.5	488.7	471.8	460.9	452.2	443.4	437.8	432.2	429.3	423.1
27.5°	494.2	477.2	460.6	447.8	434.3	425.7	417.8	412.8	406.0	401.3	397.9
30°	478.4	458.4	444.1	432.5	415.3	407.2	401.3	395.0	390.0	385.1	381.6
32.5°	460.2	441.9	428.3	414.0	400.8	392.0	384.3	378.8	374.5	369.8	366.4
35°	431.5	416.3	402.2	387.8	378.1	369.1	360.0	355.4	351.3	346.9	343.8
37.5°	405.7	391.4	378.1	364.4	352.5	345.0	337.8	334.2	328.7	325.8	322.6
40°	389.7	375.7	361.3	348.2	335.7	330.1	323.5	318.2	313.2	311.0	307.6
42.5°	372.3	358.2	346.1	331.9	321.7	314.1	308.0	302.2	298.5	295.3	293.3
45°	346.3	333.8	322.0	307.9	298.2	291.6	284.8	279.5	276.1	273.9	270.4
47.5°	321.1	308.7	296.6	284.4	275.0	267.5	260.7	256.9	252.4	249.7	247.4
50°	302.9	291.6	278.8	267.6	258.3	250.8	245.2	240.4	236.4	232.9	231.4
52.5°	286.2	274.2	263.1	252.7	242.8	234.2	229.2	224.2	221.2	217.2	215.4
55°	258.5	247.0	237.7	227.3	217.7	210.5	204.2	199.8	196.7	192.3	189.9
57.5°	232.6	222.3	211.1	202.2	192.2	186.1	180.9	175.0	171.2	167.8	165.3
60°	215.2	203.3	193.6	185.2	176.4	168.6	164.0	159.2	155.2	151.7	149.6
62.5°	196.9	186.5	177.4	168.2	160.2	153.4	148.0	144.0	140.5	138.3	136.1
65°	168.9	160.9	151.5	144.0	136.5	131.5	127.1	123.7	121.2	119.6	117.7
67.5°	143.2	135.3	127.2	119.8	114.8	111.0	108.1	105.2	104.0	101.9	100.7
70°	126.5	118.4	111.2	105.6	100.5	97.8	95.9	93.7	92.5	89.9	88.7
72.5°	108.3	102.4	97.2	92.5	88.5	86.0	83.6	81.0	78.9	76.2	74.9
75°	85.3	80.0	75.9	72.7	70.3	66.9	63.4	60.6	59.7	58.7	58.4
77.5°	63.1	59.8	56.8	54.2	51.1	48.6	47.9	47.2	47.0	46.6	46.6
80°	49.7	46.6	44.4	41.3	39.4	39.4	39.4	38.7	39.1	39.1	39.1
82.5°	36.9	34.0	32.9	31.7	31.4	31.6	31.6	31.7	31.6	32.0	31.8
85°	19.1	19.3	20.0	19.6	20.0	20.0	20.6	20.3	20.6	20.0	20.6
87.5°	9.5	10.8	11.7	12.7	13.7	14.1	14.6	14.8	15.3	15.5	15.7
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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CATALOG NUMBER: S123RDIW-S560D1535U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	695.0	694.7	695.0	694.0	695.0	694.7	695.0	698.0	698.0	698.2	698.5
5°	646.7	646.4	645.5	642.7	645.5	646.4	646.7	647.7	650.1	654.5	653.3
7.5°	604.5	604.1	601.4	601.4	601.4	604.1	604.5	607.0	609.8	612.5	615.7
10°	579.6	579.9	576.2	574.0	576.2	579.9	579.6	581.8	585.8	588.0	590.2
12.5°	555.4	553.9	550.9	548.5	550.9	553.9	555.4	557.0	562.6	565.0	569.2
15°	523.3	520.2	512.7	513.4	512.7	520.2	523.3	522.1	527.7	530.8	532.1
17.5°	485.7	483.4	483.3	478.9	483.3	483.4	485.7	488.2	493.1	496.4	505.4
20°	463.7	462.2	462.8	458.4	462.8	462.2	463.7	468.7	471.8	476.2	483.4
22.5°	446.5	444.9	442.3	440.9	442.3	444.9	446.5	450.0	453.4	459.5	463.4
25°	421.3	418.7	416.3	417.8	416.3	418.7	421.3	423.1	429.3	432.2	437.8
27.5°	396.0	394.1	391.7	391.3	391.7	394.1	396.0	397.9	401.3	406.0	412.8
30°	380.0	378.1	376.9	375.4	376.9	378.1	380.0	381.6	385.1	390.0	395.0
32.5°	363.8	363.5	361.2	360.9	361.2	363.5	363.8	366.4	369.8	374.5	378.8
35°	342.6	340.7	340.1	340.4	340.1	340.7	342.6	343.8	346.9	351.3	355.4
37.5°	322.4	319.9	318.8	317.6	318.8	319.9	322.4	322.6	325.8	328.7	334.2
40°	307.9	305.4	304.8	304.2	304.8	305.4	307.9	307.6	311.0	313.2	318.2
42.5°	291.6	290.7	290.3	289.2	290.3	290.7	291.6	293.3	295.3	298.5	302.2
45°	269.5	269.2	267.3	267.9	267.3	269.2	269.5	270.4	273.9	276.1	279.5
47.5°	246.1	244.8	243.4	244.3	243.4	244.8	246.1	247.4	249.7	252.4	256.9
50°	230.2	229.5	226.7	227.3	226.7	229.5	230.2	231.4	232.9	236.4	240.4
52.5°	214.2	211.8	210.8	210.3	210.8	211.8	214.2	215.4	217.2	221.2	224.2
55°	187.7	184.8	183.6	183.0	183.6	184.8	187.7	189.9	192.3	196.7	199.8
57.5°	161.7	160.9	160.0	160.6	160.0	160.9	161.7	165.3	167.8	171.2	175.0
60°	146.4	146.4	146.4	146.2	146.4	146.4	146.4	149.6	151.7	155.2	159.2
62.5°	134.7	134.0	133.7	134.1	133.7	134.0	134.7	136.1	138.3	140.5	144.0
65°	116.8	116.5	115.2	115.0	115.2	116.5	116.8	117.7	119.6	121.2	123.7
67.5°	99.9	98.7	98.4	97.9	98.4	98.7	99.9	100.7	101.9	104.0	105.2
70°	87.2	86.5	84.6	85.0	84.6	86.5	87.2	88.7	89.9	92.5	93.7
72.5°	73.4	72.7	72.4	71.9	72.4	72.7	73.4	74.9	76.2	78.9	81.0
75°	58.0	57.8	57.5	58.7	57.5	57.8	58.0	58.4	58.7	59.7	60.6
77.5°	46.6	46.6	46.7	46.2	46.7	46.6	46.6	46.6	46.6	47.0	47.2
80°	39.1	39.1	38.7	38.7	38.7	39.1	39.1	39.1	39.1	39.1	38.7
82.5°	31.3	31.6	31.7	31.2	31.7	31.6	31.3	31.8	32.0	31.6	31.7
85°	20.6	20.3	21.0	20.6	21.0	20.3	20.6	20.6	20.0	20.6	20.3
87.5°	16.3	15.9	16.0	16.4	16.0	15.9	16.3	15.7	15.5	15.3	14.8
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°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	696.3	699.8	703.3	706.5	711.5	713.7	717.0	718.2	721.9	727.5	732.0
5°	653.9	658.9	665.4	670.7	679.2	685.7	692.9	699.8	707.9	719.5	729.8
7.5°	618.0	622.9	630.8	640.7	650.0	659.3	669.1	678.4	690.1	706.6	723.0
10°	594.3	600.2	609.6	620.2	631.7	640.8	652.3	664.2	678.6	697.7	717.3
12.5°	573.8	578.2	589.1	599.2	612.2	623.8	635.1	649.0	665.4	685.7	709.3
15°	541.2	547.4	558.1	569.2	583.0	595.2	609.8	626.7	642.7	667.6	696.3
17.5°	508.4	518.0	529.0	541.7	551.9	568.7	584.6	601.9	621.5	648.0	679.5
20°	487.5	495.0	505.2	523.7	537.1	549.9	564.6	586.1	604.2	634.2	667.0
22.5°	469.7	475.2	486.7	502.0	517.6	532.4	547.4	567.9	590.3	618.7	654.3
25°	443.4	452.2	460.9	471.8	488.7	506.5	522.8	540.2	563.9	594.3	632.7
27.5°	417.8	425.7	434.3	447.8	460.6	477.2	494.2	514.2	539.6	571.7	610.7
30°	401.3	407.2	415.3	432.5	444.1	458.4	478.4	496.2	519.9	554.0	595.2
32.5°	384.3	392.0	400.8	414.0	428.3	441.9	460.2	479.5	503.7	537.2	579.4
35°	360.0	369.1	378.1	387.8	402.2	416.3	431.5	452.8	477.4	510.0	551.5
37.5°	337.8	345.0	352.5	364.4	378.1	391.4	405.7	426.6	449.9	484.9	523.0
40°	323.5	330.1	335.7	348.2	361.3	375.7	389.7	408.1	433.1	465.9	502.8
42.5°	308.0	314.1	321.7	331.9	346.1	358.2	372.3	389.6	413.1	446.5	478.7
45°	284.8	291.6	298.2	307.9	322.0	333.8	346.3	362.9	386.9	414.4	443.1
47.5°	260.7	267.5	275.0	284.4	296.6	308.7	321.1	335.8	357.8	384.7	404.1
50°	245.2	250.8	258.3	267.6	278.8	291.6	302.9	318.9	339.7	361.0	377.9
52.5°	229.2	234.2	242.8	252.7	263.1	274.2	286.2	299.9	318.8	338.8	352.1
55°	204.2	210.5	217.7	227.3	237.7	247.0	258.5	272.6	287.6	302.6	311.7
57.5°	180.9	186.1	192.2	202.2	211.1	222.3	232.6	243.6	257.5	268.7	274.7
60°	164.0	168.6	176.4	185.2	193.6	203.3	215.2	226.1	236.7	245.7	250.5
62.5°	148.0	153.4	160.2	168.2	177.4	186.5	196.9	206.1	215.5	223.3	226.5
65°	127.1	131.5	136.5	144.0	151.5	160.9	168.9	178.3	185.2	189.6	192.3
67.5°	108.1	111.0	114.8	119.8	127.2	135.3	143.2	150.5	156.3	159.2	161.8
70°	95.9	97.8	100.5	105.6	111.2	118.4	126.5	131.8	136.8	139.3	141.8
72.5°	83.6	86.0	88.5	92.5	97.2	102.4	108.3	114.8	117.6	120.5	122.1
75°	63.4	66.9	70.3	72.7	75.9	80.0	85.3	89.3	90.9	93.4	93.7
77.5°	47.9	48.6	51.1	54.2	56.8	59.8	63.1	66.8	67.5	68.8	69.6
80°	39.4	39.4	39.4	41.3	44.4	46.6	49.7	51.5	52.7	53.1	53.4
82.5°	31.6	31.6	31.4	31.7	32.9	34.0	36.9	39.1	40.0	39.9	39.1
85°	20.6	20.0	20.0	19.6	20.0	19.3	19.1	20.3	22.2	22.2	21.5
87.5°	14.6	14.1	13.7	12.7	11.7	10.8	9.5	9.1	8.6	9.0	8.2
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°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	733.4	736.2	739.7	744.9	748.9	752.4	753.2	754.2	756.7	760.9	764.2
5°	738.3	745.4	756.9	768.2	780.4	790.4	799.7	806.3	812.5	825.7	836.3
7.5°	736.7	752.7	770.8	791.0	811.4	831.2	849.5	866.0	882.4	901.5	923.2
10°	735.7	754.5	778.8	804.7	833.2	861.0	887.8	908.7	933.1	955.0	982.8
12.5°	731.0	758.0	787.1	820.2	855.2	887.2	922.5	951.5	979.3	1010.9	1043.2
15°	724.8	757.6	794.4	838.5	891.5	930.3	966.5	1016.8	1051.1	1085.5	1131.7
17.5°	713.5	753.5	799.6	856.7	901.1	953.1	1007.5	1047.3	1093.6	1142.0	1183.8
20°	704.5	751.1	802.6	858.8	915.3	971.8	1024.6	1072.0	1119.8	1175.7	1210.1
22.5°	695.5	741.5	795.1	854.8	915.5	975.0	1034.8	1090.5	1144.3	1200.7	1244.6
25°	676.4	731.0	789.1	850.0	910.0	975.5	1046.8	1108.9	1175.4	1233.5	1275.0
27.5°	657.0	707.1	764.9	826.7	893.3	970.9	1054.6	1125.3	1191.9	1233.5	1246.5
30°	639.5	692.6	745.7	808.5	880.6	967.1	1056.1	1137.0	1191.6	1209.7	1196.3
32.5°	621.8	669.9	722.5	786.8	863.4	957.9	1058.1	1130.0	1162.9	1149.1	1094.4
35°	590.5	633.9	684.9	749.2	837.2	952.8	1049.9	1098.6	1090.5	1012.4	909.3
37.5°	557.0	592.4	639.5	706.8	810.1	932.5	1014.4	1021.6	951.3	831.4	712.4
40°	530.5	562.4	610.8	681.1	789.1	912.5	978.7	949.7	840.7	707.3	608.0
42.5°	504.8	531.7	578.3	654.1	769.2	885.3	925.4	862.2	736.5	610.3	520.1
45°	461.2	486.5	533.4	611.1	728.2	833.2	827.9	718.0	592.1	490.6	415.6
47.5°	419.9	442.0	486.0	565.3	680.2	755.0	705.4	588.5	481.7	400.3	346.8
50°	390.7	412.5	456.2	534.6	641.7	696.3	625.5	512.7	415.0	347.6	305.1
52.5°	362.6	384.0	424.0	500.3	595.3	627.9	551.8	447.3	365.8	307.6	271.1
55°	323.5	339.7	375.7	448.7	519.6	527.1	450.0	362.6	295.4	254.8	229.8
57.5°	283.6	297.6	333.0	391.3	441.0	437.1	363.9	288.4	243.1	213.0	194.9
60°	257.6	271.3	302.6	352.5	390.0	376.9	309.8	248.9	210.2	188.0	173.7
62.5°	233.4	244.1	273.4	309.8	336.8	322.0	264.8	214.4	183.7	165.0	153.6
65°	198.3	207.0	230.5	249.5	264.5	250.1	202.7	167.7	145.5	132.4	124.6
67.5°	164.9	170.5	185.3	192.2	202.8	187.0	152.4	129.0	116.3	105.3	99.9
70°	144.0	148.1	155.8	161.4	164.3	148.1	122.4	105.3	94.7	86.8	83.4
72.5°	122.9	126.5	128.1	132.7	131.3	116.0	98.4	84.8	77.1	71.8	67.4
75°	94.0	95.6	94.0	92.1	88.1	77.5	65.3	58.4	52.7	50.3	48.8
77.5°	68.5	68.0	65.9	62.9	56.0	49.3	42.8	40.4	38.1	36.7	36.2
80°	52.7	51.5	49.7	45.0	39.1	34.3	32.8	31.2	30.3	28.7	28.5
82.5°	39.3	38.6	35.4	31.5	27.3	25.1	23.8	23.2	22.3	21.5	21.4
85°	21.0	20.0	16.6	14.3	13.8	13.1	12.8	12.8	11.6	11.3	11.3
87.5°	7.5	6.6	6.8	6.7	7.3	7.5	8.5	8.7	9.1	9.6	9.4
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°	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	769.5	769.5	770.5	774.2	774.7	778.0	776.9
5°	845.6	851.6	853.8	863.2	868.8	871.2	866.3
7.5°	938.8	955.5	963.5	973.3	981.9	984.6	977.8
10°	1006.8	1024.3	1038.9	1048.0	1056.5	1062.0	1069.3
12.5°	1072.4	1094.0	1107.9	1120.7	1129.4	1136.5	1137.7
15°	1143.9	1176.3	1201.0	1219.1	1228.2	1232.9	1231.0
17.5°	1215.9	1245.9	1263.6	1282.0	1294.5	1295.2	1295.6
20°	1256.6	1286.0	1306.3	1320.0	1334.1	1333.4	1336.5
22.5°	1283.9	1306.9	1322.5	1332.4	1337.3	1334.9	1335.5
25°	1296.6	1303.4	1300.6	1284.7	1280.7	1266.0	1268.4
27.5°	1230.9	1198.4	1164.8	1121.5	1087.4	1060.2	1061.6
30°	1141.7	1084.2	1018.6	963.7	914.4	900.6	871.2
32.5°	1017.0	930.8	854.0	802.8	760.4	748.9	723.3
35°	805.7	721.9	642.9	595.5	576.7	550.6	550.2
37.5°	626.2	552.5	510.8	475.2	456.5	440.6	439.0
40°	526.8	469.4	437.8	412.2	393.8	381.9	379.1
42.5°	457.4	410.9	381.3	365.5	351.3	345.2	340.6
45°	373.5	342.3	321.6	307.3	300.7	296.0	293.5
47.5°	312.4	291.5	277.4	267.9	262.5	257.6	258.9
50°	279.2	262.0	251.7	242.6	238.6	235.1	235.5
52.5°	252.4	237.0	228.7	222.2	217.1	214.7	213.4
55°	214.3	204.6	196.1	191.4	188.6	185.2	184.3
57.5°	182.7	175.2	168.4	163.1	162.4	159.1	159.5
60°	161.8	155.5	149.9	147.1	144.9	142.1	143.0
62.5°	144.6	139.3	134.1	131.8	129.6	127.6	128.0
65°	118.4	113.3	110.2	109.0	108.0	107.1	106.2
67.5°	94.3	91.2	89.3	86.6	84.7	84.4	83.4
70°	79.3	75.3	71.8	68.4	67.4	67.1	67.4
72.5°	63.6	61.0	60.1	58.4	58.2	57.4	58.0
75°	47.8	46.9	46.2	45.0	45.0	45.0	45.0
77.5°	35.2	34.7	34.3	34.0	33.8	33.3	33.3
80°	27.5	27.1	26.6	26.6	26.3	26.6	26.3
82.5°	20.7	20.7	20.1	20.1	19.7	19.6	19.7
85°	10.6	10.3	10.9	10.3	10.6	10.0	10.6
87.5°	9.5	9.8	9.7	9.8	9.6	10.3	9.9
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)