

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: P332168-935

Luminaire Tested: **S123DIW-S775D1320U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332168-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S775D1320U935-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1320 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7356.4 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

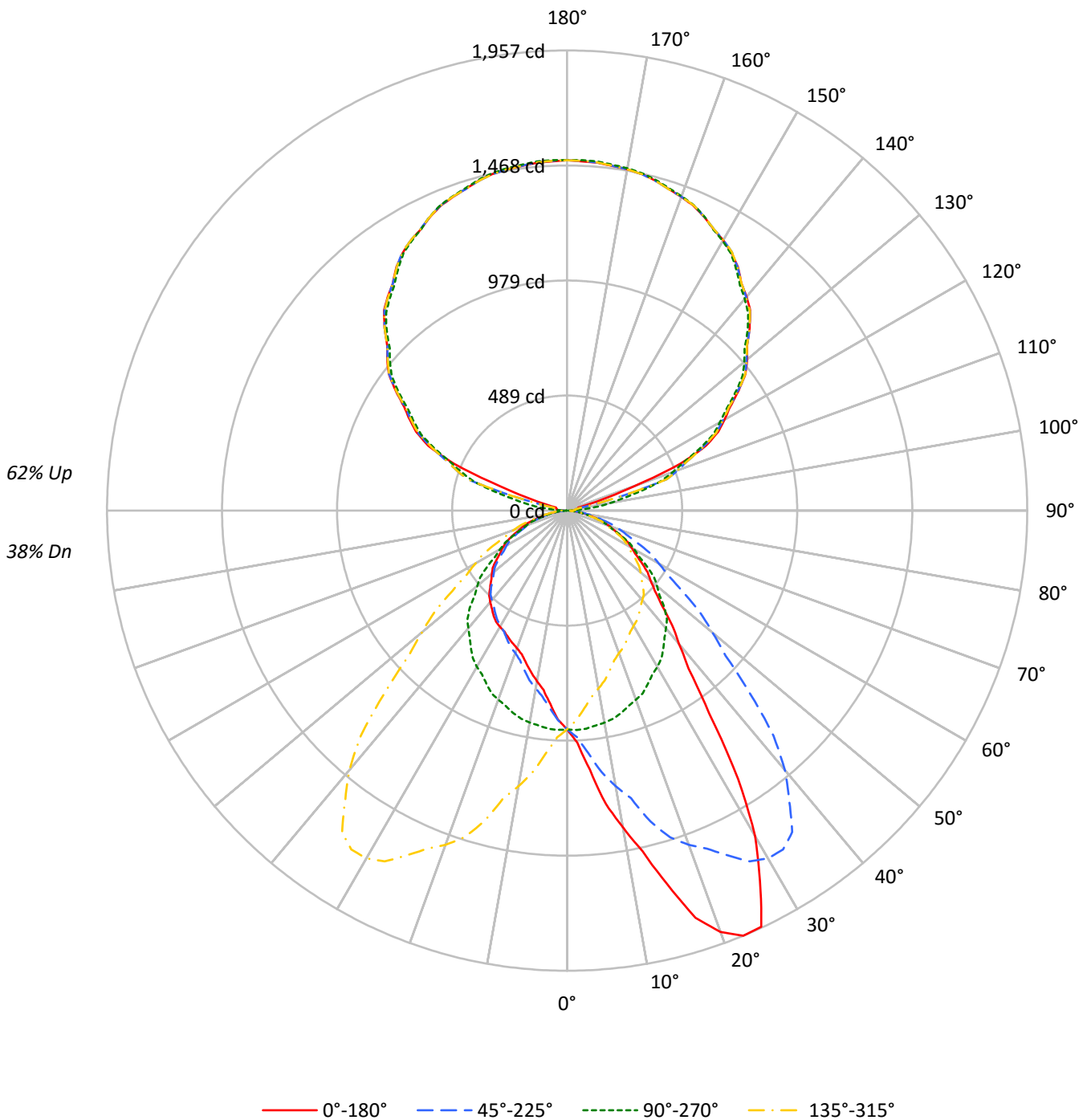
Input Watts (W): 61.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	39	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	58	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	90°	180°	270°
0°	10014	10014	10014	10014
5°	11943	10057	8912	10057
10°	14948	10006	8050	10006
15°	18333	9926	7494	9926
20°	21841	9800	7135	9800
25°	23192	9647	7056	9647
30°	19877	9536	7093	9536
35°	13825	9376	7167	9376
40°	10413	9190	7144	9190
45°	8645	8914	7054	8914
50°	7743	8348	6990	8348
55°	7240	7739	6902	7739
60°	6794	7102	6833	7102
65°	6383	6477	6612	6477
70°	5986	5759	6297	5759
75°	5361	5041	5772	5041
80°	4699	4135	4971	4135
85°	3680	3013	3335	3013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.6	1.2
10°-20°	293.9	4.0
20°-30°	493.2	6.7
30°-40°	558.5	7.6
40°-50°	500.8	6.8
50°-60°	404.1	5.5
60°-70°	281.6	3.8
70°-80°	148.0	2.0
80°-90°	40.4	0.5
90°-100°	54.2	0.7
100°-110°	258.2	3.5
110°-120°	620.2	8.4
120°-130°	789.8	10.7
130°-140°	843.9	11.5
140°-150°	789.1	10.7
150°-160°	636.5	8.7
160°-170°	410.8	5.6
170°-180°	141.6	1.9
0°-30°	878.7	11.9
0°-40°	1437.2	19.5
0°-60°	2342.1	31.8
0°-90°	2812.1	38.2
90°-120°	932.6	12.7
90°-150°	3355.4	45.6
90°-180°	4544.0	61.8
0°-180°	7356.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	930	930	930	930	930	
5°	1105	931	825	931	1105	115
15°	1645	891	672	891	1645	475
25°	1953	812	594	812	1953	856
35°	1052	714	545	714	1052	684
45°	568	586	463	586	568	449
55°	386	412	368	412	386	346
65°	251	254	260	254	251	250
75°	129	121	139	121	129	138
85°	30	24	27	24	30	36
90°	33	1	33	1	33	17
95°	42	68	42	68	42	35
105°	49	330	49	330	49	111
115°	651	619	651	619	651	602
125°	890	872	890	872	890	795
135°	1097	1086	1097	1086	1097	846
145°	1265	1253	1265	1253	1265	790
155°	1378	1380	1378	1380	1378	636
165°	1452	1456	1452	1456	1452	410
175°	1485	1490	1485	1490	1485	141
180°	1490	1490	1490	1490	1490	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	987.3	986.6	984.8	986.3	983.3	979.4	979.0	975.4	964.9	964.2	961.4
5°	1105.3	1101.6	1101.2	1100.7	1094.4	1085.9	1069.6	1068.2	1046.6	1035.8	1022.8
7.5°	1257.9	1259.8	1253.3	1247.5	1228.2	1215.5	1198.1	1175.8	1149.3	1122.3	1104.3
10°	1367.6	1382.4	1364.0	1351.3	1339.6	1317.5	1291.8	1259.8	1227.9	1190.4	1162.0
12.5°	1485.1	1492.5	1488.8	1476.9	1458.6	1425.0	1379.5	1344.2	1314.7	1252.4	1227.3
15°	1645.2	1672.8	1655.2	1614.5	1615.5	1583.5	1524.0	1458.6	1423.9	1369.3	1295.0
17.5°	1815.8	1819.2	1811.7	1778.0	1755.4	1711.4	1656.5	1593.9	1523.5	1457.5	1378.6
20°	1906.7	1903.9	1888.2	1870.6	1831.9	1797.6	1737.7	1667.8	1577.6	1512.7	1426.6
22.5°	1957.1	1952.7	1945.2	1930.4	1898.2	1861.4	1807.6	1731.2	1645.5	1556.0	1456.6
25°	1952.7	1958.5	1959.4	1955.3	1944.1	1922.0	1879.6	1818.8	1733.1	1618.2	1514.5
27.5°	1776.0	1784.3	1808.4	1829.7	1853.6	1877.9	1874.7	1844.4	1781.1	1681.9	1555.1
30°	1599.2	1581.2	1625.8	1682.2	1720.5	1788.1	1826.0	1828.2	1792.6	1707.4	1583.9
32.5°	1354.0	1373.9	1393.6	1462.9	1546.7	1622.6	1698.0	1758.7	1765.6	1708.9	1600.9
35°	1052.1	1076.9	1112.9	1148.9	1239.2	1316.6	1449.1	1564.5	1656.5	1668.7	1602.4
37.5°	847.7	860.1	882.9	918.9	977.9	1069.9	1172.4	1318.3	1451.5	1550.6	1554.9
40°	741.1	744.7	770.3	797.8	845.6	921.4	1013.7	1142.6	1302.2	1440.6	1498.3
42.5°	661.0	668.9	679.8	706.2	744.2	801.2	887.2	993.7	1140.0	1299.2	1412.1
45°	567.9	577.0	583.8	601.3	628.4	666.7	726.6	824.0	935.3	1099.8	1251.7
47.5°	506.4	507.2	512.2	525.5	543.9	572.7	615.0	677.6	779.8	913.2	1069.2
50°	462.4	469.7	471.5	481.8	496.3	517.5	552.6	605.8	689.7	806.8	950.2
52.5°	431.4	433.6	438.7	446.2	458.7	475.3	505.8	547.4	613.2	713.1	844.9
55°	385.8	385.8	390.8	396.7	403.9	418.7	439.0	469.7	519.7	597.3	706.4
57.5°	343.6	345.9	349.4	351.2	357.3	367.2	384.1	407.4	444.7	504.4	591.1
60°	315.6	319.6	319.2	322.7	328.1	335.8	350.3	369.2	402.5	450.3	523.3
62.5°	291.0	290.8	290.7	295.0	300.4	307.7	317.0	333.5	361.8	404.2	466.3
65°	250.6	249.7	252.9	255.5	257.4	262.8	270.0	284.4	303.3	334.9	383.1
67.5°	214.7	212.2	213.9	214.7	217.8	222.1	228.8	237.7	252.8	278.1	314.4
70°	190.2	188.0	187.5	188.4	191.1	194.2	199.2	207.8	221.8	242.0	268.6
72.5°	165.0	163.4	163.3	165.3	166.6	168.7	172.2	180.0	191.1	206.4	231.2
75°	128.9	128.9	128.9	129.3	130.7	132.5	135.3	139.3	147.8	158.7	175.3
77.5°	96.6	96.5	96.0	95.9	97.9	98.8	99.4	103.1	107.9	115.2	127.3
80°	75.8	73.4	74.4	75.8	76.6	77.1	78.4	79.3	83.4	87.5	96.0
82.5°	56.2	54.3	54.5	56.7	56.8	57.3	58.6	59.8	61.4	65.1	69.7
85°	29.8	29.8	30.2	30.2	30.7	30.2	31.5	32.0	32.0	34.3	36.9
87.5°	17.5	16.6	16.9	17.1	16.7	17.0	17.0	17.2	17.4	17.6	17.3
90°	33.2	32.7	32.2	31.8	31.3	30.5	29.5	28.5	27.6	26.6	23.3
92.5°	36.8	36.4	36.2	35.9	35.6	34.6	33.1	31.5	29.9	28.3	25.9
95°	42.1	42.1	42.1	42.1	42.1	41.2	39.5	37.8	36.1	34.4	31.6
97.5°	45.6	45.4	45.1	44.9	44.6	43.5	41.6	39.6	37.6	35.6	53.4
100°	46.5	46.2	46.0	45.7	45.5	44.4	42.4	40.5	38.5	36.5	74.9
102.5°	47.4	46.9	46.5	46.1	45.6	48.5	54.5	60.6	66.7	72.8	114.8
105°	48.7	48.2	47.7	47.3	46.8	68.3	111.8	155.3	198.9	242.5	264.6
107.5°	153.0	185.8	218.6	251.5	284.3	316.7	348.6	380.6	412.4	444.4	440.9
110°	304.4	339.7	374.8	410.0	445.1	466.8	474.9	483.0	491.2	499.3	496.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	522.4	529.8	537.2	544.6	552.1	555.7	555.5	555.4	555.3	555.1	552.4
115°	651.0	650.0	649.0	648.0	647.0	645.3	642.8	640.4	637.9	635.5	633.3
117.5°	723.2	723.0	722.7	722.6	722.4	721.3	719.3	717.4	715.4	713.4	712.3
120°	772.7	772.7	772.7	772.7	772.7	771.8	769.8	767.8	765.9	763.9	763.2
122.5°	821.5	821.3	821.0	820.9	820.7	819.9	818.6	817.2	815.8	814.4	813.5
125°	890.1	889.6	889.2	888.6	888.1	887.6	887.2	886.7	886.1	885.7	884.7
127.5°	956.1	956.6	957.1	957.6	958.0	957.9	957.1	956.3	955.5	954.8	953.6
130°	998.6	999.1	999.6	1000.1	1000.6	1000.3	999.4	998.3	997.4	996.3	995.4
132.5°	1037.6	1038.3	1039.0	1039.7	1040.3	1040.2	1039.2	1038.2	1037.2	1036.2	1035.4
135°	1097.2	1097.9	1098.6	1099.3	1100.1	1100.1	1099.3	1098.6	1097.9	1097.2	1096.1
137.5°	1153.1	1153.7	1154.2	1154.6	1155.1	1154.8	1153.6	1152.4	1151.2	1150.0	1149.5
140°	1186.8	1187.3	1187.7	1188.3	1188.8	1188.5	1187.6	1186.5	1185.6	1184.6	1183.9
142.5°	1217.8	1218.5	1219.2	1219.9	1220.6	1220.6	1219.7	1218.9	1218.1	1217.4	1216.6
145°	1265.4	1265.4	1265.4	1265.4	1265.4	1265.2	1264.6	1264.2	1263.7	1263.2	1262.7
147.5°	1300.8	1302.0	1303.1	1304.2	1305.4	1305.7	1305.2	1304.7	1304.2	1303.7	1303.2
150°	1327.4	1328.2	1328.9	1329.6	1330.3	1330.5	1330.0	1329.5	1329.0	1328.5	1328.0
152.5°	1348.7	1349.8	1350.9	1352.0	1353.2	1353.3	1352.5	1351.5	1350.7	1349.8	1349.4
155°	1378.4	1379.8	1381.3	1382.8	1384.2	1384.4	1383.1	1381.9	1380.7	1379.4	1379.2
157.5°	1403.3	1405.2	1407.2	1409.1	1411.0	1411.3	1409.8	1408.3	1406.8	1405.3	1405.6
160°	1419.3	1421.0	1422.7	1424.4	1426.2	1426.3	1424.9	1423.3	1421.9	1420.4	1420.6
162.5°	1434.3	1435.9	1437.4	1438.9	1440.5	1440.4	1438.7	1437.0	1435.4	1433.7	1433.9
165°	1452.5	1454.2	1456.0	1457.7	1459.4	1459.3	1457.3	1455.3	1453.4	1451.4	1451.6
167.5°	1465.6	1467.6	1469.6	1471.4	1473.4	1473.4	1471.4	1469.6	1467.6	1465.6	1465.6
170°	1473.5	1475.5	1477.5	1479.5	1481.4	1481.4	1479.5	1477.5	1475.5	1473.5	1473.5
172.5°	1478.0	1480.1	1482.3	1484.5	1486.6	1486.8	1484.8	1482.8	1480.8	1478.9	1478.7
175°	1484.6	1486.6	1488.6	1490.6	1492.5	1492.6	1490.9	1489.2	1487.5	1485.7	1485.5
177.5°	1486.6	1488.6	1490.6	1492.5	1494.5	1494.7	1493.1	1491.5	1490.0	1488.4	1488.2
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	959.2	956.3	953.4	948.4	944.1	937.9	936.1	933.9	927.5	921.7	917.4
5°	1017.8	1006.9	991.2	976.8	965.1	949.3	940.3	930.8	917.3	905.1	895.2
7.5°	1079.1	1057.8	1033.3	1006.8	982.1	958.3	939.1	922.0	903.0	885.1	871.2
10°	1127.7	1097.1	1062.9	1025.9	994.4	963.7	938.0	915.5	891.1	870.0	852.4
12.5°	1183.3	1137.9	1090.6	1045.8	1008.4	965.9	934.8	906.1	878.5	853.0	833.3
15°	1249.1	1191.4	1135.4	1073.7	1016.9	963.7	926.8	890.7	858.7	832.5	807.3
17.5°	1308.9	1243.5	1169.8	1094.8	1026.2	963.2	911.5	870.6	830.6	798.7	773.5
20°	1342.8	1268.4	1185.0	1107.1	1031.3	961.0	904.2	855.5	812.3	778.4	750.0
22.5°	1372.0	1285.0	1198.7	1115.3	1031.0	955.2	890.9	840.8	793.8	760.8	730.6
25°	1402.3	1298.1	1211.6	1113.8	1019.6	941.2	869.0	812.3	765.3	726.6	695.5
27.5°	1428.2	1297.3	1194.6	1089.3	1001.8	923.2	846.1	785.2	735.5	693.4	661.8
30°	1445.5	1299.1	1176.9	1072.8	984.5	903.3	828.5	767.2	714.9	672.1	642.3
32.5°	1456.4	1298.0	1160.7	1049.7	957.0	885.3	809.3	745.9	692.2	650.1	621.4
35°	1462.7	1290.0	1132.7	1002.0	912.7	842.9	779.4	713.5	657.2	617.9	585.6
37.5°	1450.1	1273.3	1100.3	956.1	858.3	789.5	736.1	680.0	626.1	582.9	555.0
40°	1430.2	1262.6	1075.0	923.6	820.8	754.6	709.0	654.0	600.8	559.8	533.6
42.5°	1392.3	1240.5	1047.2	887.5	781.9	715.6	673.7	627.8	577.4	538.9	512.8
45°	1299.9	1192.7	1005.6	833.4	724.4	655.8	618.9	585.6	540.0	502.6	480.0
47.5°	1171.7	1120.7	945.4	776.4	664.3	598.4	560.0	533.1	499.9	469.7	448.1
50°	1082.7	1061.5	904.7	737.4	624.3	559.8	522.9	498.5	474.7	444.4	424.6
52.5°	979.9	993.0	857.0	697.1	583.5	520.1	485.3	466.1	444.4	419.6	402.3
55°	835.3	882.5	774.8	629.2	522.9	462.4	429.6	412.4	399.8	381.3	366.4
57.5°	699.7	760.0	686.0	559.4	463.3	411.2	379.6	360.9	352.8	343.2	331.5
60°	619.3	678.8	622.5	512.5	423.3	373.7	345.7	329.9	321.8	315.0	305.1
62.5°	547.6	607.8	560.4	464.9	383.9	337.9	313.7	298.3	291.9	288.3	279.9
65°	448.9	500.8	469.2	390.8	327.7	287.1	265.0	254.3	248.4	247.0	241.6
67.5°	365.4	404.8	381.9	324.2	274.5	239.4	220.7	211.5	207.0	206.6	202.5
70°	310.6	347.5	329.9	277.7	234.9	207.3	191.1	183.0	180.3	179.9	177.6
72.5°	268.0	293.8	279.8	236.2	203.1	178.1	166.3	157.7	154.7	155.3	153.8
75°	198.3	217.7	209.6	179.4	152.8	136.6	126.7	121.2	118.6	119.9	118.1
77.5°	142.7	155.0	147.7	126.7	110.4	98.6	91.4	88.0	85.6	85.5	84.6
80°	107.7	114.9	110.9	98.2	84.7	74.8	69.0	66.7	65.3	64.9	64.5
82.5°	76.7	82.8	78.1	69.4	60.2	54.2	51.0	48.0	47.0	47.3	46.8
85°	38.7	41.0	39.2	33.8	30.2	27.5	25.7	24.4	23.4	23.8	23.0
87.5°	17.4	17.1	15.4	13.3	12.1	10.6	10.1	8.9	8.6	9.1	9.3
90°	20.1	17.0	13.8	10.9	8.5	6.0	3.5	1.1	3.5	6.0	8.5
92.5°	23.5	21.1	18.7	17.8	18.5	19.2	19.9	20.6	19.9	19.2	18.5
95°	28.9	26.2	23.5	27.2	37.3	47.4	57.4	67.5	57.4	47.4	37.3
97.5°	71.1	88.8	106.5	117.6	122.2	126.7	131.2	135.7	131.2	126.7	122.2
100°	113.3	151.7	190.0	206.8	201.8	196.9	192.0	187.1	192.0	196.9	201.8
102.5°	156.7	198.6	240.6	259.8	256.1	252.6	249.1	245.6	249.1	252.6	256.1
105°	286.7	308.8	331.1	340.7	338.0	335.4	332.6	329.9	332.6	335.4	338.0
107.5°	437.4	433.9	430.4	427.6	425.4	423.3	421.1	419.0	421.1	423.3	425.4
110°	493.9	491.2	488.4	486.1	484.1	482.2	480.3	478.3	480.3	482.2	484.1





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	549.7	547.0	544.2	542.0	540.3	538.5	536.7	534.9	536.7	538.5	540.3
115°	631.0	628.8	626.6	624.7	623.3	621.8	620.4	618.9	620.4	621.8	623.3
117.5°	711.2	710.0	708.9	707.4	705.6	703.8	702.0	700.2	702.0	703.8	705.6
120°	762.4	761.6	761.0	759.5	757.2	755.0	752.9	750.6	752.9	755.0	757.2
122.5°	812.5	811.6	810.6	809.3	807.4	805.6	803.8	802.0	803.8	805.6	807.4
125°	883.7	882.7	881.8	880.3	878.3	876.3	874.3	872.4	874.3	876.3	878.3
127.5°	952.4	951.2	950.0	948.5	946.5	944.5	942.5	940.6	942.5	944.5	946.5
130°	994.5	993.4	992.5	991.0	989.0	987.1	985.1	983.1	985.1	987.1	989.0
132.5°	1034.7	1033.9	1033.1	1031.7	1029.8	1027.8	1025.8	1023.8	1025.8	1027.8	1029.8
135°	1095.2	1094.2	1093.2	1092.0	1090.5	1089.0	1087.5	1086.1	1087.5	1089.0	1090.5
137.5°	1149.0	1148.4	1147.9	1146.7	1144.8	1143.0	1141.1	1139.2	1141.1	1143.0	1144.8
140°	1183.1	1182.4	1181.6	1180.5	1179.1	1177.6	1176.1	1174.7	1176.1	1177.6	1179.1
142.5°	1215.9	1215.1	1214.4	1213.3	1211.9	1210.4	1208.8	1207.4	1208.8	1210.4	1211.9
145°	1262.2	1261.7	1261.2	1260.2	1258.4	1256.7	1255.0	1253.3	1255.0	1256.7	1258.4
147.5°	1302.7	1302.3	1301.7	1301.0	1299.8	1298.6	1297.5	1296.4	1297.5	1298.6	1299.8
150°	1327.5	1327.1	1326.5	1325.9	1325.2	1324.5	1323.7	1323.0	1323.7	1324.5	1325.2
152.5°	1349.2	1348.9	1348.6	1348.2	1347.9	1347.6	1347.2	1346.9	1347.2	1347.6	1347.9
155°	1379.0	1378.7	1378.5	1378.5	1379.1	1379.6	1380.1	1380.5	1380.1	1379.6	1379.1
157.5°	1405.8	1406.1	1406.4	1406.4	1406.5	1406.6	1406.6	1406.7	1406.6	1406.6	1406.5
160°	1420.9	1421.2	1421.4	1421.6	1421.9	1422.1	1422.4	1422.6	1422.4	1422.1	1421.9
162.5°	1434.2	1434.4	1434.7	1435.1	1435.7	1436.4	1437.0	1437.7	1437.0	1436.4	1435.7
165°	1451.9	1452.2	1452.4	1452.9	1453.6	1454.3	1455.1	1455.9	1455.1	1454.3	1453.6
167.5°	1465.6	1465.6	1465.6	1466.0	1467.1	1468.0	1469.0	1470.0	1469.0	1468.0	1467.1
170°	1473.5	1473.5	1473.5	1474.0	1475.1	1476.0	1477.0	1478.0	1477.0	1476.0	1475.1
172.5°	1478.5	1478.3	1478.1	1478.6	1479.7	1480.9	1482.1	1483.3	1482.1	1480.9	1479.7
175°	1485.2	1485.0	1484.7	1485.2	1486.4	1487.7	1488.9	1490.1	1488.9	1487.7	1486.4
177.5°	1488.0	1487.8	1487.6	1488.0	1489.0	1490.0	1490.9	1491.9	1490.9	1490.0	1489.0
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	914.8	912.3	908.7	903.3	899.0	892.1	892.1	893.2	893.2	892.9	892.1
5°	887.1	880.3	872.2	862.7	852.8	842.9	841.1	837.5	834.8	833.0	830.7
7.5°	857.8	845.8	834.0	820.7	808.7	798.7	791.7	785.9	782.2	778.3	775.4
10°	837.9	823.0	809.1	795.1	779.8	767.7	760.0	754.6	750.5	746.9	745.1
12.5°	814.5	797.5	782.0	768.8	752.0	739.5	732.2	729.7	724.9	717.3	713.3
15°	780.2	764.5	746.0	725.7	717.6	702.2	693.7	689.7	686.9	681.1	679.2
17.5°	751.0	730.3	709.6	694.4	679.3	666.9	662.1	657.1	653.5	648.7	647.3
20°	727.5	709.0	690.1	673.9	658.1	644.5	640.5	636.9	633.3	631.0	629.2
22.5°	703.7	685.3	669.5	654.4	637.6	628.7	624.3	620.4	617.8	616.3	614.5
25°	670.3	654.0	636.5	622.9	609.4	603.6	600.8	598.6	596.8	594.5	594.1
27.5°	640.3	622.7	608.4	595.8	586.1	581.2	578.6	577.5	577.9	578.7	579.2
30°	617.9	601.8	590.0	579.2	570.2	565.7	565.2	565.2	567.1	567.5	568.4
32.5°	597.4	584.1	572.4	561.9	555.1	552.0	553.7	553.7	555.2	556.3	557.9
35°	567.5	555.8	546.7	537.8	531.9	533.2	534.2	535.0	537.3	540.0	541.8
37.5°	538.9	528.7	519.4	512.3	509.6	512.0	514.2	516.1	518.8	520.8	522.6
40°	518.3	510.7	501.7	495.3	496.3	497.7	499.5	501.7	503.9	505.3	507.1
42.5°	499.2	491.2	484.4	479.1	480.4	482.2	483.2	484.4	487.0	489.4	490.5
45°	470.1	463.8	457.5	454.3	455.3	456.2	457.0	458.4	460.6	462.4	463.0
47.5°	437.4	433.0	428.8	425.7	427.1	426.8	427.9	430.8	431.5	432.7	435.1
50°	416.5	412.4	407.5	406.6	406.6	406.6	407.0	410.6	410.6	412.4	414.2
52.5°	393.4	390.8	387.6	386.0	385.3	385.3	387.2	389.0	389.7	392.3	394.1
55°	359.2	356.5	353.9	352.5	351.5	352.5	356.1	357.0	359.2	360.6	362.0
57.5°	323.6	321.6	319.4	318.7	318.5	319.7	321.7	324.3	324.9	329.1	331.1
60°	300.2	297.0	295.2	295.2	294.4	298.4	297.5	302.0	302.9	305.6	308.8
62.5°	276.0	271.8	271.0	271.0	272.3	273.5	274.7	276.7	279.1	282.5	285.0
65°	237.1	234.9	238.0	237.5	236.6	239.4	239.4	241.6	244.3	247.5	252.4
67.5°	200.2	199.1	199.3	199.3	200.7	202.2	203.5	205.4	208.7	212.1	215.2
70°	175.3	176.7	174.4	176.2	177.6	178.1	178.9	181.7	185.3	187.5	191.1
72.5°	151.2	151.1	151.4	152.1	153.4	154.2	155.2	158.3	162.2	164.1	166.9
75°	116.3	115.8	117.2	117.2	119.4	120.4	121.2	122.6	126.2	128.9	131.1
77.5°	84.9	85.5	85.2	86.7	86.1	86.3	89.0	90.4	90.7	96.1	97.3
80°	64.0	64.9	65.3	65.8	66.3	65.3	68.5	69.8	69.8	73.0	75.3
82.5°	46.0	46.5	47.7	48.1	48.2	49.2	49.4	50.4	51.5	52.9	55.8
85°	23.0	24.4	24.8	24.4	24.8	23.8	25.2	25.7	26.2	26.2	26.2
87.5°	9.4	10.3	10.6	11.6	11.9	12.9	13.1	12.6	12.7	14.0	12.7
90°	10.9	13.8	17.0	20.1	23.3	26.6	27.6	28.5	29.5	30.5	31.3
92.5°	17.8	18.7	21.1	23.5	25.9	28.3	29.9	31.5	33.1	34.6	35.6
95°	27.2	23.5	26.2	28.9	31.6	34.4	36.1	37.8	39.5	41.2	42.1
97.5°	117.6	106.5	88.8	71.1	53.4	35.6	37.6	39.6	41.6	43.5	44.6
100°	206.8	190.0	151.7	113.3	74.9	36.5	38.5	40.5	42.4	44.4	45.5
102.5°	259.8	240.6	198.6	156.7	114.8	72.8	66.7	60.6	54.5	48.5	45.6
105°	340.7	331.1	308.8	286.7	264.6	242.5	198.9	155.3	111.8	68.3	46.8
107.5°	427.6	430.4	433.9	437.4	440.9	444.4	412.4	380.6	348.6	316.7	284.3
110°	486.1	488.4	491.2	493.9	496.6	499.3	491.2	483.0	474.9	466.8	445.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	542.0	544.2	547.0	549.7	552.4	555.1	555.3	555.4	555.5	555.7	552.1
115°	624.7	626.6	628.8	631.0	633.3	635.5	637.9	640.4	642.8	645.3	647.0
117.5°	707.4	708.9	710.0	711.2	712.3	713.4	715.4	717.4	719.3	721.3	722.4
120°	759.5	761.0	761.6	762.4	763.2	763.9	765.9	767.8	769.8	771.8	772.7
122.5°	809.3	810.6	811.6	812.5	813.5	814.4	815.8	817.2	818.6	819.9	820.7
125°	880.3	881.8	882.7	883.7	884.7	885.7	886.1	886.7	887.2	887.6	888.1
127.5°	948.5	950.0	951.2	952.4	953.6	954.8	955.5	956.3	957.1	957.9	958.0
130°	991.0	992.5	993.4	994.5	995.4	996.3	997.4	998.3	999.4	1000.3	1000.6
132.5°	1031.7	1033.1	1033.9	1034.7	1035.4	1036.2	1037.2	1038.2	1039.2	1040.2	1040.3
135°	1092.0	1093.2	1094.2	1095.2	1096.1	1097.2	1097.9	1098.6	1099.3	1100.1	1100.1
137.5°	1146.7	1147.9	1148.4	1149.0	1149.5	1150.0	1151.2	1152.4	1153.6	1154.8	1155.1
140°	1180.5	1181.6	1182.4	1183.1	1183.9	1184.6	1185.6	1186.5	1187.6	1188.5	1188.8
142.5°	1213.3	1214.4	1215.1	1215.9	1216.6	1217.4	1218.1	1218.9	1219.7	1220.6	1220.6
145°	1260.2	1261.2	1261.7	1262.2	1262.7	1263.2	1263.7	1264.2	1264.6	1265.2	1265.4
147.5°	1301.0	1301.7	1302.3	1302.7	1303.2	1303.7	1304.2	1304.7	1305.2	1305.7	1305.4
150°	1325.9	1326.5	1327.1	1327.5	1328.0	1328.5	1329.0	1329.5	1330.0	1330.5	1330.3
152.5°	1348.2	1348.6	1348.9	1349.2	1349.4	1349.8	1350.7	1351.5	1352.5	1353.3	1353.2
155°	1378.5	1378.5	1378.7	1379.0	1379.2	1379.4	1380.7	1381.9	1383.1	1384.4	1384.2
157.5°	1406.4	1406.4	1406.1	1405.8	1405.6	1405.3	1406.8	1408.3	1409.8	1411.3	1411.0
160°	1421.6	1421.4	1421.2	1420.9	1420.6	1420.4	1421.9	1423.3	1424.9	1426.3	1426.2
162.5°	1435.1	1434.7	1434.4	1434.2	1433.9	1433.7	1435.4	1437.0	1438.7	1440.4	1440.5
165°	1452.9	1452.4	1452.2	1451.9	1451.6	1451.4	1453.4	1455.3	1457.3	1459.3	1459.4
167.5°	1466.0	1465.6	1465.6	1465.6	1465.6	1465.6	1467.6	1469.6	1471.4	1473.4	1473.4
170°	1474.0	1473.5	1473.5	1473.5	1473.5	1473.5	1475.5	1477.5	1479.5	1481.4	1481.4
172.5°	1478.6	1478.1	1478.3	1478.5	1478.7	1478.9	1480.8	1482.8	1484.8	1486.8	1486.6
175°	1485.2	1484.7	1485.0	1485.2	1485.5	1485.7	1487.5	1489.2	1490.9	1492.6	1492.5
177.5°	1488.0	1487.6	1487.8	1488.0	1488.2	1488.4	1490.0	1491.5	1493.1	1494.7	1494.5
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



TEST NUMBER: P332168-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	889.6	889.2	891.7	889.9	891.7	889.2	889.6	892.1	892.9	893.2	893.2
5°	828.0	829.4	824.8	824.8	824.8	829.4	828.0	830.7	833.0	834.8	837.5
7.5°	773.2	771.2	771.4	769.0	771.4	771.2	773.2	775.4	778.3	782.2	785.9
10°	739.7	737.0	736.1	736.5	736.1	737.0	739.7	745.1	746.9	750.5	754.6
12.5°	711.9	711.4	705.4	705.5	705.4	711.4	711.9	713.3	717.3	724.9	729.7
15°	679.2	670.7	669.8	672.5	669.8	670.7	679.2	679.2	681.1	686.9	689.7
17.5°	646.5	642.0	642.3	640.9	642.3	642.0	646.5	647.3	648.7	653.5	657.1
20°	629.2	626.5	626.1	622.9	626.1	626.5	629.2	629.2	631.0	633.3	636.9
22.5°	613.4	612.5	612.8	609.2	612.8	612.5	613.4	614.5	616.3	617.8	620.4
25°	593.7	595.9	594.1	594.1	594.1	595.9	593.7	594.1	594.5	596.8	598.6
27.5°	580.3	580.2	579.3	579.3	579.3	580.2	580.3	579.2	578.7	577.9	577.5
30°	570.2	569.7	570.7	570.7	570.7	569.7	570.2	568.4	567.5	567.1	565.2
32.5°	560.1	560.8	560.9	561.3	560.9	560.8	560.1	557.9	556.3	555.2	553.7
35°	544.5	544.9	546.3	545.4	546.3	544.9	544.5	541.8	540.0	537.3	535.0
37.5°	523.4	525.5	525.0	525.7	525.0	525.5	523.4	522.6	520.8	518.8	516.1
40°	507.6	508.9	508.4	508.4	508.4	508.9	507.6	507.1	505.3	503.9	501.7
42.5°	491.3	492.3	491.1	490.4	491.1	492.3	491.3	490.5	489.4	487.0	484.4
45°	464.7	463.8	465.2	463.4	465.2	463.8	464.7	463.0	462.4	460.6	458.4
47.5°	435.0	435.8	436.3	437.6	436.3	435.8	435.0	435.1	432.7	431.5	430.8
50°	415.2	417.8	417.8	417.4	417.8	417.8	415.2	414.2	412.4	410.6	410.6
52.5°	395.6	396.9	398.7	398.6	398.7	396.9	395.6	394.1	392.3	389.7	389.0
55°	365.6	366.4	367.4	367.8	367.4	366.4	365.6	362.0	360.6	359.2	357.0
57.5°	334.3	334.0	336.1	336.8	336.1	334.0	334.3	331.1	329.1	324.9	324.3
60°	312.4	312.4	316.0	317.4	316.0	312.4	312.4	308.8	305.6	302.9	302.0
62.5°	289.0	290.4	293.9	292.1	293.9	290.4	289.0	285.0	282.5	279.1	276.7
65°	254.7	258.3	257.9	259.6	257.9	258.3	254.7	252.4	247.5	244.3	241.6
67.5°	218.9	221.1	224.4	224.6	224.4	221.1	218.9	215.2	212.1	208.7	205.4
70°	194.8	197.0	198.8	200.1	198.8	197.0	194.8	191.1	187.5	185.3	181.7
72.5°	171.3	172.5	176.8	174.9	176.8	172.5	171.3	166.9	164.1	162.2	158.3
75°	134.3	137.5	140.2	138.8	140.2	137.5	134.3	131.1	128.9	126.2	122.6
77.5°	99.4	102.5	103.8	102.6	103.8	102.5	99.4	97.3	96.1	90.7	90.4
80°	78.4	78.0	80.7	80.2	80.7	78.0	78.4	75.3	73.0	69.8	69.8
82.5°	57.5	57.1	58.3	58.6	58.3	57.1	57.5	55.8	52.9	51.5	50.4
85°	28.0	29.3	27.5	27.0	27.5	29.3	28.0	26.2	26.2	26.2	25.7
87.5°	12.8	12.9	12.7	12.4	12.7	12.9	12.8	12.7	14.0	12.7	12.6
90°	31.8	32.2	32.7	33.2	32.7	32.2	31.8	31.3	30.5	29.5	28.5
92.5°	35.9	36.2	36.4	36.8	36.4	36.2	35.9	35.6	34.6	33.1	31.5
95°	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	41.2	39.5	37.8
97.5°	44.9	45.1	45.4	45.6	45.4	45.1	44.9	44.6	43.5	41.6	39.6
100°	45.7	46.0	46.2	46.5	46.2	46.0	45.7	45.5	44.4	42.4	40.5
102.5°	46.1	46.5	46.9	47.4	46.9	46.5	46.1	45.6	48.5	54.5	60.6
105°	47.3	47.7	48.2	48.7	48.2	47.7	47.3	46.8	68.3	111.8	155.3
107.5°	251.5	218.6	185.8	153.0	185.8	218.6	251.5	284.3	316.7	348.6	380.6
110°	410.0	374.8	339.7	304.4	339.7	374.8	410.0	445.1	466.8	474.9	483.0



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	544.6	537.2	529.8	522.4	529.8	537.2	544.6	552.1	555.7	555.5	555.4
115°	648.0	649.0	650.0	651.0	650.0	649.0	648.0	647.0	645.3	642.8	640.4
117.5°	722.6	722.7	723.0	723.2	723.0	722.7	722.6	722.4	721.3	719.3	717.4
120°	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	771.8	769.8	767.8
122.5°	820.9	821.0	821.3	821.5	821.3	821.0	820.9	820.7	819.9	818.6	817.2
125°	888.6	889.2	889.6	890.1	889.6	889.2	888.6	888.1	887.6	887.2	886.7
127.5°	957.6	957.1	956.6	956.1	956.6	957.1	957.6	958.0	957.9	957.1	956.3
130°	1000.1	999.6	999.1	998.6	999.1	999.6	1000.1	1000.6	1000.3	999.4	998.3
132.5°	1039.7	1039.0	1038.3	1037.6	1038.3	1039.0	1039.7	1040.3	1040.2	1039.2	1038.2
135°	1099.3	1098.6	1097.9	1097.2	1097.9	1098.6	1099.3	1100.1	1100.1	1099.3	1098.6
137.5°	1154.6	1154.2	1153.7	1153.1	1153.7	1154.2	1154.6	1155.1	1154.8	1153.6	1152.4
140°	1188.3	1187.7	1187.3	1186.8	1187.3	1187.7	1188.3	1188.8	1188.5	1187.6	1186.5
142.5°	1219.9	1219.2	1218.5	1217.8	1218.5	1219.2	1219.9	1220.6	1220.6	1219.7	1218.9
145°	1265.4	1265.4	1265.4	1265.4	1265.4	1265.4	1265.4	1265.4	1265.2	1264.6	1264.2
147.5°	1304.2	1303.1	1302.0	1300.8	1302.0	1303.1	1304.2	1305.4	1305.7	1305.2	1304.7
150°	1329.6	1328.9	1328.2	1327.4	1328.2	1328.9	1329.6	1330.3	1330.5	1330.0	1329.5
152.5°	1352.0	1350.9	1349.8	1348.7	1349.8	1350.9	1352.0	1353.2	1353.3	1352.5	1351.5
155°	1382.8	1381.3	1379.8	1378.4	1379.8	1381.3	1382.8	1384.2	1384.4	1383.1	1381.9
157.5°	1409.1	1407.2	1405.2	1403.3	1405.2	1407.2	1409.1	1411.0	1411.3	1409.8	1408.3
160°	1424.4	1422.7	1421.0	1419.3	1421.0	1422.7	1424.4	1426.2	1426.3	1424.9	1423.3
162.5°	1438.9	1437.4	1435.9	1434.3	1435.9	1437.4	1438.9	1440.5	1440.4	1438.7	1437.0
165°	1457.7	1456.0	1454.2	1452.5	1454.2	1456.0	1457.7	1459.4	1459.3	1457.3	1455.3
167.5°	1471.4	1469.6	1467.6	1465.6	1467.6	1469.6	1471.4	1473.4	1473.4	1471.4	1469.6
170°	1479.5	1477.5	1475.5	1473.5	1475.5	1477.5	1479.5	1481.4	1481.4	1479.5	1477.5
172.5°	1484.5	1482.3	1480.1	1478.0	1480.1	1482.3	1484.5	1486.6	1486.8	1484.8	1482.8
175°	1490.6	1488.6	1486.6	1484.6	1486.6	1488.6	1490.6	1492.5	1492.6	1490.9	1489.2
177.5°	1492.5	1490.6	1488.6	1486.6	1488.6	1490.6	1492.5	1494.5	1494.7	1493.1	1491.5
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	892.1	892.1	899.0	903.3	908.7	912.3	914.8	917.4	921.7	927.5	933.9
5°	841.1	842.9	852.8	862.7	872.2	880.3	887.1	895.2	905.1	917.3	930.8
7.5°	791.7	798.7	808.7	820.7	834.0	845.8	857.8	871.2	885.1	903.0	922.0
10°	760.0	767.7	779.8	795.1	809.1	823.0	837.9	852.4	870.0	891.1	915.5
12.5°	732.2	739.5	752.0	768.8	782.0	797.5	814.5	833.3	853.0	878.5	906.1
15°	693.7	702.2	717.6	725.7	746.0	764.5	780.2	807.3	832.5	858.7	890.7
17.5°	662.1	666.9	679.3	694.4	709.6	730.3	751.0	773.5	798.7	830.6	870.6
20°	640.5	644.5	658.1	673.9	690.1	709.0	727.5	750.0	778.4	812.3	855.5
22.5°	624.3	628.7	637.6	654.4	669.5	685.3	703.7	730.6	760.8	793.8	840.8
25°	600.8	603.6	609.4	622.9	636.5	654.0	670.3	695.5	726.6	765.3	812.3
27.5°	578.6	581.2	586.1	595.8	608.4	622.7	640.3	661.8	693.4	735.5	785.2
30°	565.2	565.7	570.2	579.2	590.0	601.8	617.9	642.3	672.1	714.9	767.2
32.5°	553.7	552.0	555.1	561.9	572.4	584.1	597.4	621.4	650.1	692.2	745.9
35°	534.2	533.2	531.9	537.8	546.7	555.8	567.5	585.6	617.9	657.2	713.5
37.5°	514.2	512.0	509.6	512.3	519.4	528.7	538.9	555.0	582.9	626.1	680.0
40°	499.5	497.7	496.3	495.3	501.7	510.7	518.3	533.6	559.8	600.8	654.0
42.5°	483.2	482.2	480.4	479.1	484.4	491.2	499.2	512.8	538.9	577.4	627.8
45°	457.0	456.2	455.3	454.3	457.5	463.8	470.1	480.0	502.6	540.0	585.6
47.5°	427.9	426.8	427.1	425.7	428.8	433.0	437.4	448.1	469.7	499.9	533.1
50°	407.0	406.6	406.6	406.6	407.5	412.4	416.5	424.6	444.4	474.7	498.5
52.5°	387.2	385.3	385.3	386.0	387.6	390.8	393.4	402.3	419.6	444.4	466.1
55°	356.1	352.5	351.5	352.5	353.9	356.5	359.2	366.4	381.3	399.8	412.4
57.5°	321.7	319.7	318.5	318.7	319.4	321.6	323.6	331.5	343.2	352.8	360.9
60°	297.5	298.4	294.4	295.2	295.2	297.0	300.2	305.1	315.0	321.8	329.9
62.5°	274.7	273.5	272.3	271.0	271.0	271.8	276.0	279.9	288.3	291.9	298.3
65°	239.4	239.4	236.6	237.5	238.0	234.9	237.1	241.6	247.0	248.4	254.3
67.5°	203.5	202.2	200.7	199.3	199.3	199.1	200.2	202.5	206.6	207.0	211.5
70°	178.9	178.1	177.6	176.2	174.4	176.7	175.3	177.6	179.9	180.3	183.0
72.5°	155.2	154.2	153.4	152.1	151.4	151.1	151.2	153.8	155.3	154.7	157.7
75°	121.2	120.4	119.4	117.2	117.2	115.8	116.3	118.1	119.9	118.6	121.2
77.5°	89.0	86.3	86.1	86.7	85.2	85.5	84.9	84.6	85.5	85.6	88.0
80°	68.5	65.3	66.3	65.8	65.3	64.9	64.0	64.5	64.9	65.3	66.7
82.5°	49.4	49.2	48.2	48.1	47.7	46.5	46.0	46.8	47.3	47.0	48.0
85°	25.2	23.8	24.8	24.4	24.8	24.4	23.0	23.0	23.8	23.4	24.4
87.5°	13.1	12.9	11.9	11.6	10.6	10.3	9.4	9.3	9.1	8.6	8.9
90°	27.6	26.6	23.3	20.1	17.0	13.8	10.9	8.5	6.0	3.5	1.1
92.5°	29.9	28.3	25.9	23.5	21.1	18.7	17.8	18.5	19.2	19.9	20.6
95°	36.1	34.4	31.6	28.9	26.2	23.5	27.2	37.3	47.4	57.4	67.5
97.5°	37.6	35.6	53.4	71.1	88.8	106.5	117.6	122.2	126.7	131.2	135.7
100°	38.5	36.5	74.9	113.3	151.7	190.0	206.8	201.8	196.9	192.0	187.1
102.5°	66.7	72.8	114.8	156.7	198.6	240.6	259.8	256.1	252.6	249.1	245.6
105°	198.9	242.5	264.6	286.7	308.8	331.1	340.7	338.0	335.4	332.6	329.9
107.5°	412.4	444.4	440.9	437.4	433.9	430.4	427.6	425.4	423.3	421.1	419.0
110°	491.2	499.3	496.6	493.9	491.2	488.4	486.1	484.1	482.2	480.3	478.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	555.3	555.1	552.4	549.7	547.0	544.2	542.0	540.3	538.5	536.7	534.9
115°	637.9	635.5	633.3	631.0	628.8	626.6	624.7	623.3	621.8	620.4	618.9
117.5°	715.4	713.4	712.3	711.2	710.0	708.9	707.4	705.6	703.8	702.0	700.2
120°	765.9	763.9	763.2	762.4	761.6	761.0	759.5	757.2	755.0	752.9	750.6
122.5°	815.8	814.4	813.5	812.5	811.6	810.6	809.3	807.4	805.6	803.8	802.0
125°	886.1	885.7	884.7	883.7	882.7	881.8	880.3	878.3	876.3	874.3	872.4
127.5°	955.5	954.8	953.6	952.4	951.2	950.0	948.5	946.5	944.5	942.5	940.6
130°	997.4	996.3	995.4	994.5	993.4	992.5	991.0	989.0	987.1	985.1	983.1
132.5°	1037.2	1036.2	1035.4	1034.7	1033.9	1033.1	1031.7	1029.8	1027.8	1025.8	1023.8
135°	1097.9	1097.2	1096.1	1095.2	1094.2	1093.2	1092.0	1090.5	1089.0	1087.5	1086.1
137.5°	1151.2	1150.0	1149.5	1149.0	1148.4	1147.9	1146.7	1144.8	1143.0	1141.1	1139.2
140°	1185.6	1184.6	1183.9	1183.1	1182.4	1181.6	1180.5	1179.1	1177.6	1176.1	1174.7
142.5°	1218.1	1217.4	1216.6	1215.9	1215.1	1214.4	1213.3	1211.9	1210.4	1208.8	1207.4
145°	1263.7	1263.2	1262.7	1262.2	1261.7	1261.2	1260.2	1258.4	1256.7	1255.0	1253.3
147.5°	1304.2	1303.7	1303.2	1302.7	1302.3	1301.7	1301.0	1299.8	1298.6	1297.5	1296.4
150°	1329.0	1328.5	1328.0	1327.5	1327.1	1326.5	1325.9	1325.2	1324.5	1323.7	1323.0
152.5°	1350.7	1349.8	1349.4	1349.2	1348.9	1348.6	1348.2	1347.9	1347.6	1347.2	1346.9
155°	1380.7	1379.4	1379.2	1379.0	1378.7	1378.5	1378.5	1379.1	1379.6	1380.1	1380.5
157.5°	1406.8	1405.3	1405.6	1405.8	1406.1	1406.4	1406.4	1406.5	1406.6	1406.6	1406.7
160°	1421.9	1420.4	1420.6	1420.9	1421.2	1421.4	1421.6	1421.9	1422.1	1422.4	1422.6
162.5°	1435.4	1433.7	1433.9	1434.2	1434.4	1434.7	1435.1	1435.7	1436.4	1437.0	1437.7
165°	1453.4	1451.4	1451.6	1451.9	1452.2	1452.4	1452.9	1453.6	1454.3	1455.1	1455.9
167.5°	1467.6	1465.6	1465.6	1465.6	1465.6	1465.6	1466.0	1467.1	1468.0	1469.0	1470.0
170°	1475.5	1473.5	1473.5	1473.5	1473.5	1473.5	1474.0	1475.1	1476.0	1477.0	1478.0
172.5°	1480.8	1478.9	1478.7	1478.5	1478.3	1478.1	1478.6	1479.7	1480.9	1482.1	1483.3
175°	1487.5	1485.7	1485.5	1485.2	1485.0	1484.7	1485.2	1486.4	1487.7	1488.9	1490.1
177.5°	1490.0	1488.4	1488.2	1488.0	1487.8	1487.6	1488.0	1489.0	1490.0	1490.9	1491.9
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	936.1	937.9	944.1	948.4	953.4	956.3	959.2	961.4	964.2	964.9	975.4
5°	940.3	949.3	965.1	976.8	991.2	1006.9	1017.8	1022.8	1035.8	1046.6	1068.2
7.5°	939.1	958.3	982.1	1006.8	1033.3	1057.8	1079.1	1104.3	1122.3	1149.3	1175.8
10°	938.0	963.7	994.4	1025.9	1062.9	1097.1	1127.7	1162.0	1190.4	1227.9	1259.8
12.5°	934.8	965.9	1008.4	1045.8	1090.6	1137.9	1183.3	1227.3	1252.4	1314.7	1344.2
15°	926.8	963.7	1016.9	1073.7	1135.4	1191.4	1249.1	1295.0	1369.3	1423.9	1458.6
17.5°	911.5	963.2	1026.2	1094.8	1169.8	1243.5	1308.9	1378.6	1457.5	1523.5	1593.9
20°	904.2	961.0	1031.3	1107.1	1185.0	1268.4	1342.8	1426.6	1512.7	1577.6	1667.8
22.5°	890.9	955.2	1031.0	1115.3	1198.7	1285.0	1372.0	1456.6	1556.0	1645.5	1731.2
25°	869.0	941.2	1019.6	1113.8	1211.6	1298.1	1402.3	1514.5	1618.2	1733.1	1818.8
27.5°	846.1	923.2	1001.8	1089.3	1194.6	1297.3	1428.2	1555.1	1681.9	1781.1	1844.4
30°	828.5	903.3	984.5	1072.8	1176.9	1299.1	1445.5	1583.9	1707.4	1792.6	1828.2
32.5°	809.3	885.3	957.0	1049.7	1160.7	1298.0	1456.4	1600.9	1708.9	1765.6	1758.7
35°	779.4	842.9	912.7	1002.0	1132.7	1290.0	1462.7	1602.4	1668.7	1656.5	1564.5
37.5°	736.1	789.5	858.3	956.1	1100.3	1273.3	1450.1	1554.9	1550.6	1451.5	1318.3
40°	709.0	754.6	820.8	923.6	1075.0	1262.6	1430.2	1498.3	1440.6	1302.2	1142.6
42.5°	673.7	715.6	781.9	887.5	1047.2	1240.5	1392.3	1412.1	1299.2	1140.0	993.7
45°	618.9	655.8	724.4	833.4	1005.6	1192.7	1299.9	1251.7	1099.8	935.3	824.0
47.5°	560.0	598.4	664.3	776.4	945.4	1120.7	1171.7	1069.2	913.2	779.8	677.6
50°	522.9	559.8	624.3	737.4	904.7	1061.5	1082.7	950.2	806.8	689.7	605.8
52.5°	485.3	520.1	583.5	697.1	857.0	993.0	979.9	844.9	713.1	613.2	547.4
55°	429.6	462.4	522.9	629.2	774.8	882.5	835.3	706.4	597.3	519.7	469.7
57.5°	379.6	411.2	463.3	559.4	686.0	760.0	699.7	591.1	504.4	444.7	407.4
60°	345.7	373.7	423.3	512.5	622.5	678.8	619.3	523.3	450.3	402.5	369.2
62.5°	313.7	337.9	383.9	464.9	560.4	607.8	547.6	466.3	404.2	361.8	333.5
65°	265.0	287.1	327.7	390.8	469.2	500.8	448.9	383.1	334.9	303.3	284.4
67.5°	220.7	239.4	274.5	324.2	381.9	404.8	365.4	314.4	278.1	252.8	237.7
70°	191.1	207.3	234.9	277.7	329.9	347.5	310.6	268.6	242.0	221.8	207.8
72.5°	166.3	178.1	203.1	236.2	279.8	293.8	268.0	231.2	206.4	191.1	180.0
75°	126.7	136.6	152.8	179.4	209.6	217.7	198.3	175.3	158.7	147.8	139.3
77.5°	91.4	98.6	110.4	126.7	147.7	155.0	142.7	127.3	115.2	107.9	103.1
80°	69.0	74.8	84.7	98.2	110.9	114.9	107.7	96.0	87.5	83.4	79.3
82.5°	51.0	54.2	60.2	69.4	78.1	82.8	76.7	69.7	65.1	61.4	59.8
85°	25.7	27.5	30.2	33.8	39.2	41.0	38.7	36.9	34.3	32.0	32.0
87.5°	10.1	10.6	12.1	13.3	15.4	17.1	17.4	17.3	17.6	17.4	17.2
90°	3.5	6.0	8.5	10.9	13.8	17.0	20.1	23.3	26.6	27.6	28.5
92.5°	19.9	19.2	18.5	17.8	18.7	21.1	23.5	25.9	28.3	29.9	31.5
95°	57.4	47.4	37.3	27.2	23.5	26.2	28.9	31.6	34.4	36.1	37.8
97.5°	131.2	126.7	122.2	117.6	106.5	88.8	71.1	53.4	35.6	37.6	39.6
100°	192.0	196.9	201.8	206.8	190.0	151.7	113.3	74.9	36.5	38.5	40.5
102.5°	249.1	252.6	256.1	259.8	240.6	198.6	156.7	114.8	72.8	66.7	60.6
105°	332.6	335.4	338.0	340.7	331.1	308.8	286.7	264.6	242.5	198.9	155.3
107.5°	421.1	423.3	425.4	427.6	430.4	433.9	437.4	440.9	444.4	412.4	380.6
110°	480.3	482.2	484.1	486.1	488.4	491.2	493.9	496.6	499.3	491.2	483.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	536.7	538.5	540.3	542.0	544.2	547.0	549.7	552.4	555.1	555.3	555.4
115°	620.4	621.8	623.3	624.7	626.6	628.8	631.0	633.3	635.5	637.9	640.4
117.5°	702.0	703.8	705.6	707.4	708.9	710.0	711.2	712.3	713.4	715.4	717.4
120°	752.9	755.0	757.2	759.5	761.0	761.6	762.4	763.2	763.9	765.9	767.8
122.5°	803.8	805.6	807.4	809.3	810.6	811.6	812.5	813.5	814.4	815.8	817.2
125°	874.3	876.3	878.3	880.3	881.8	882.7	883.7	884.7	885.7	886.1	886.7
127.5°	942.5	944.5	946.5	948.5	950.0	951.2	952.4	953.6	954.8	955.5	956.3
130°	985.1	987.1	989.0	991.0	992.5	993.4	994.5	995.4	996.3	997.4	998.3
132.5°	1025.8	1027.8	1029.8	1031.7	1033.1	1033.9	1034.7	1035.4	1036.2	1037.2	1038.2
135°	1087.5	1089.0	1090.5	1092.0	1093.2	1094.2	1095.2	1096.1	1097.2	1097.9	1098.6
137.5°	1141.1	1143.0	1144.8	1146.7	1147.9	1148.4	1149.0	1149.5	1150.0	1151.2	1152.4
140°	1176.1	1177.6	1179.1	1180.5	1181.6	1182.4	1183.1	1183.9	1184.6	1185.6	1186.5
142.5°	1208.8	1210.4	1211.9	1213.3	1214.4	1215.1	1215.9	1216.6	1217.4	1218.1	1218.9
145°	1255.0	1256.7	1258.4	1260.2	1261.2	1261.7	1262.2	1262.7	1263.2	1263.7	1264.2
147.5°	1297.5	1298.6	1299.8	1301.0	1301.7	1302.3	1302.7	1303.2	1303.7	1304.2	1304.7
150°	1323.7	1324.5	1325.2	1325.9	1326.5	1327.1	1327.5	1328.0	1328.5	1329.0	1329.5
152.5°	1347.2	1347.6	1347.9	1348.2	1348.6	1348.9	1349.2	1349.4	1349.8	1350.7	1351.5
155°	1380.1	1379.6	1379.1	1378.5	1378.5	1378.7	1379.0	1379.2	1379.4	1380.7	1381.9
157.5°	1406.6	1406.6	1406.5	1406.4	1406.4	1406.1	1405.8	1405.6	1405.3	1406.8	1408.3
160°	1422.4	1422.1	1421.9	1421.6	1421.4	1421.2	1420.9	1420.6	1420.4	1421.9	1423.3
162.5°	1437.0	1436.4	1435.7	1435.1	1434.7	1434.4	1434.2	1433.9	1433.7	1435.4	1437.0
165°	1455.1	1454.3	1453.6	1452.9	1452.4	1452.2	1451.9	1451.6	1451.4	1453.4	1455.3
167.5°	1469.0	1468.0	1467.1	1466.0	1465.6	1465.6	1465.6	1465.6	1465.6	1467.6	1469.6
170°	1477.0	1476.0	1475.1	1474.0	1473.5	1473.5	1473.5	1473.5	1473.5	1475.5	1477.5
172.5°	1482.1	1480.9	1479.7	1478.6	1478.1	1478.3	1478.5	1478.7	1478.9	1480.8	1482.8
175°	1488.9	1487.7	1486.4	1485.2	1484.7	1485.0	1485.2	1485.5	1485.7	1487.5	1489.2
177.5°	1490.9	1490.0	1489.0	1488.0	1487.6	1487.8	1488.0	1488.2	1488.4	1490.0	1491.5
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	979.0	979.4	983.3	986.3	984.8	986.6	987.3
5°	1069.6	1085.9	1094.4	1100.7	1101.2	1101.6	1105.3
7.5°	1198.1	1215.5	1228.2	1247.5	1253.3	1259.8	1257.9
10°	1291.8	1317.5	1339.6	1351.3	1364.0	1382.4	1367.6
12.5°	1379.5	1425.0	1458.6	1476.9	1488.8	1492.5	1485.1
15°	1524.0	1583.5	1615.5	1614.5	1655.2	1672.8	1645.2
17.5°	1656.5	1711.4	1755.4	1778.0	1811.7	1819.2	1815.8
20°	1737.7	1797.6	1831.9	1870.6	1888.2	1903.9	1906.7
22.5°	1807.6	1861.4	1898.2	1930.4	1945.2	1952.7	1957.1
25°	1879.6	1922.0	1944.1	1955.3	1959.4	1958.5	1952.7
27.5°	1874.7	1877.9	1853.6	1829.7	1808.4	1784.3	1776.0
30°	1826.0	1788.1	1720.5	1682.2	1625.8	1581.2	1599.2
32.5°	1698.0	1622.6	1546.7	1462.9	1393.6	1373.9	1354.0
35°	1449.1	1316.6	1239.2	1148.9	1112.9	1076.9	1052.1
37.5°	1172.4	1069.9	977.9	918.9	882.9	860.1	847.7
40°	1013.7	921.4	845.6	797.8	770.3	744.7	741.1
42.5°	887.2	801.2	744.2	706.2	679.8	668.9	661.0
45°	726.6	666.7	628.4	601.3	583.8	577.0	567.9
47.5°	615.0	572.7	543.9	525.5	512.2	507.2	506.4
50°	552.6	517.5	496.3	481.8	471.5	469.7	462.4
52.5°	505.8	475.3	458.7	446.2	438.7	433.6	431.4
55°	439.0	418.7	403.9	396.7	390.8	385.8	385.8
57.5°	384.1	367.2	357.3	351.2	349.4	345.9	343.6
60°	350.3	335.8	328.1	322.7	319.2	319.6	315.6
62.5°	317.0	307.7	300.4	295.0	290.7	290.8	291.0
65°	270.0	262.8	257.4	255.5	252.9	249.7	250.6
67.5°	228.8	222.1	217.8	214.7	213.9	212.2	214.7
70°	199.2	194.2	191.1	188.4	187.5	188.0	190.2
72.5°	172.2	168.7	166.6	165.3	163.3	163.4	165.0
75°	135.3	132.5	130.7	129.3	128.9	128.9	128.9
77.5°	99.4	98.8	97.9	95.9	96.0	96.5	96.6
80°	78.4	77.1	76.6	75.8	74.4	73.4	75.8
82.5°	58.6	57.3	56.8	56.7	54.5	54.3	56.2
85°	31.5	30.2	30.7	30.2	30.2	29.8	29.8
87.5°	17.0	17.0	16.7	17.1	16.9	16.6	17.5
90°	29.5	30.5	31.3	31.8	32.2	32.7	33.2
92.5°	33.1	34.6	35.6	35.9	36.2	36.4	36.8
95°	39.5	41.2	42.1	42.1	42.1	42.1	42.1
97.5°	41.6	43.5	44.6	44.9	45.1	45.4	45.6
100°	42.4	44.4	45.5	45.7	46.0	46.2	46.5
102.5°	54.5	48.5	45.6	46.1	46.5	46.9	47.4
105°	111.8	68.3	46.8	47.3	47.7	48.2	48.7
107.5°	348.6	316.7	284.3	251.5	218.6	185.8	153.0
110°	474.9	466.8	445.1	410.0	374.8	339.7	304.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	555.5	555.7	552.1	544.6	537.2	529.8	522.4
115°	642.8	645.3	647.0	648.0	649.0	650.0	651.0
117.5°	719.3	721.3	722.4	722.6	722.7	723.0	723.2
120°	769.8	771.8	772.7	772.7	772.7	772.7	772.7
122.5°	818.6	819.9	820.7	820.9	821.0	821.3	821.5
125°	887.2	887.6	888.1	888.6	889.2	889.6	890.1
127.5°	957.1	957.9	958.0	957.6	957.1	956.6	956.1
130°	999.4	1000.3	1000.6	1000.1	999.6	999.1	998.6
132.5°	1039.2	1040.2	1040.3	1039.7	1039.0	1038.3	1037.6
135°	1099.3	1100.1	1100.1	1099.3	1098.6	1097.9	1097.2
137.5°	1153.6	1154.8	1155.1	1154.6	1154.2	1153.7	1153.1
140°	1187.6	1188.5	1188.8	1188.3	1187.7	1187.3	1186.8
142.5°	1219.7	1220.6	1220.6	1219.9	1219.2	1218.5	1217.8
145°	1264.6	1265.2	1265.4	1265.4	1265.4	1265.4	1265.4
147.5°	1305.2	1305.7	1305.4	1304.2	1303.1	1302.0	1300.8
150°	1330.0	1330.5	1330.3	1329.6	1328.9	1328.2	1327.4
152.5°	1352.5	1353.3	1353.2	1352.0	1350.9	1349.8	1348.7
155°	1383.1	1384.4	1384.2	1382.8	1381.3	1379.8	1378.4
157.5°	1409.8	1411.3	1411.0	1409.1	1407.2	1405.2	1403.3
160°	1424.9	1426.3	1426.2	1424.4	1422.7	1421.0	1419.3
162.5°	1438.7	1440.4	1440.5	1438.9	1437.4	1435.9	1434.3
165°	1457.3	1459.3	1459.4	1457.7	1456.0	1454.2	1452.5
167.5°	1471.4	1473.4	1473.4	1471.4	1469.6	1467.6	1465.6
170°	1479.5	1481.4	1481.4	1479.5	1477.5	1475.5	1473.5
172.5°	1484.8	1486.8	1486.6	1484.5	1482.3	1480.1	1478.0
175°	1490.9	1492.6	1492.5	1490.6	1488.6	1486.6	1484.6
177.5°	1493.1	1494.7	1494.5	1492.5	1490.6	1488.6	1486.6
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1

(END OF REPORT)