

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: P332175-935

Luminaire Tested: **S123DIW-S775D1535U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332175-935
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: S123DIW-S775D1535U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7392.2 lumens
Efficiency: N/A
Efficacy: 108.5 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

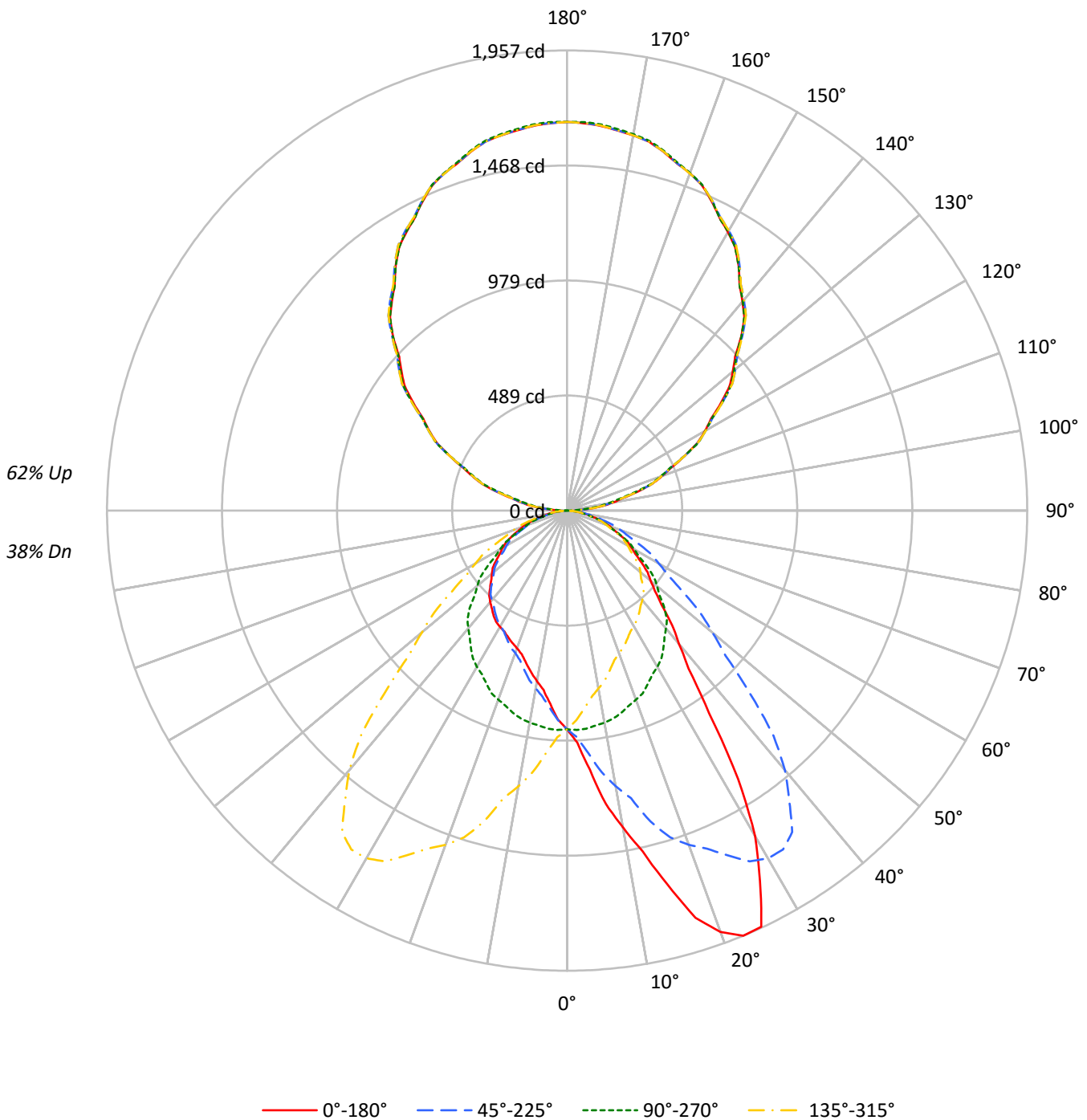
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	65	63	53	52	50	40	39	38	32
2	87	80	74	69	79	73	68	63	59	56	53	47	45	42	36	34	33	27
3	79	70	63	58	72	64	58	53	52	48	44	42	39	36	32	30	28	23
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	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	45	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	19	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°	41.1	0.6
90°-100°	107.7	1.5
100°-110°	322.3	4.4
110°-120°	548.1	7.4
120°-130°	721.0	9.8
130°-140°	810.4	11.0
140°-150°	796.6	10.8
150°-160°	670.6	9.1
160°-170°	446.4	6.0
170°-180°	156.3	2.1
0°-30°	878.7	11.9
0°-40°	1437.2	19.4
0°-60°	2342.1	31.7
0°-90°	2812.9	38.1
90°-120°	978.1	13.2
90°-150°	3306.0	44.7
90°-180°	4579.0	61.9
0°-180°	7392.2	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°	39	1	39	1	39	20
95°	101	77	101	77	101	104
105°	309	292	309	292	309	328
115°	553	552	553	552	553	548
125°	798	808	798	808	798	714
135°	1046	1048	1046	1048	1046	805
145°	1271	1271	1271	1271	1271	793
155°	1453	1455	1453	1455	1453	669
165°	1580	1585	1580	1585	1580	446
175°	1642	1649	1642	1649	1642	156
180°	1653	1653	1653	1653	1653	



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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°	18.6	17.7	18.0	18.3	17.8	18.0	18.1	18.3	18.3	18.5	18.1
90°	38.9	38.4	37.8	37.2	36.7	35.8	34.6	33.5	32.3	31.2	27.4
92.5°	52.4	52.8	53.1	53.5	53.8	53.6	52.6	51.7	50.8	49.9	47.7
95°	101.3	101.3	101.3	101.3	101.3	100.7	99.5	98.4	97.2	96.1	93.8
97.5°	155.8	155.9	156.0	156.2	156.3	155.7	154.3	153.0	151.7	150.3	148.7
100°	197.3	196.7	196.2	195.6	195.0	194.3	193.5	192.6	191.7	190.9	189.4
102.5°	240.0	240.0	240.1	240.3	240.4	240.0	239.2	238.3	237.5	236.5	234.6
105°	309.0	308.4	307.9	307.3	306.7	306.4	306.4	306.4	306.4	306.4	303.8
107.5°	380.9	381.3	381.6	381.9	382.3	382.0	381.1	380.2	379.3	378.3	377.3
110°	429.7	430.3	430.9	431.4	432.0	431.8	430.6	429.5	428.3	427.1	426.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	481.6	481.8	481.9	482.1	482.2	481.5	480.1	478.7	477.3	476.0	475.9
115°	553.1	553.4	553.7	554.0	554.2	554.2	554.0	553.7	553.4	553.1	553.7
117.5°	625.5	626.4	627.2	627.9	628.8	629.2	629.3	629.3	629.4	629.5	630.2
120°	676.4	677.0	677.6	678.2	678.7	679.2	679.5	679.8	680.0	680.4	681.7
122.5°	725.2	726.1	726.9	727.7	728.5	729.3	730.0	730.7	731.5	732.3	733.1
125°	798.5	799.6	800.8	801.9	803.1	804.3	805.4	806.6	807.7	808.9	809.4
127.5°	871.4	872.8	874.1	875.5	876.8	878.2	879.9	881.5	883.0	884.7	885.4
130°	919.2	921.3	923.3	925.3	927.3	928.9	930.1	931.2	932.4	933.5	934.4
132.5°	969.1	970.6	972.2	973.8	975.3	976.8	978.2	979.6	980.9	982.3	982.9
135°	1046.5	1047.1	1047.6	1048.2	1048.8	1049.6	1050.8	1052.0	1053.1	1054.3	1054.6
137.5°	1114.7	1115.9	1117.0	1118.0	1119.1	1120.3	1121.5	1122.7	1123.9	1125.2	1124.4
140°	1159.4	1161.4	1163.5	1165.4	1167.5	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5
142.5°	1205.1	1206.7	1208.2	1209.8	1211.3	1212.3	1212.5	1212.9	1213.1	1213.4	1212.9
145°	1271.1	1272.2	1273.4	1274.5	1275.7	1276.4	1276.7	1276.9	1277.3	1277.6	1276.7
147.5°	1329.7	1331.5	1333.3	1335.0	1336.7	1337.6	1337.6	1337.6	1337.6	1337.6	1336.7
150°	1367.2	1368.9	1370.6	1372.3	1374.1	1374.9	1374.9	1374.9	1374.9	1374.9	1374.3
152.5°	1403.5	1405.0	1406.5	1408.0	1409.5	1410.1	1409.5	1409.1	1408.7	1408.2	1407.8
155°	1452.9	1454.8	1456.9	1458.9	1460.9	1461.4	1460.2	1459.1	1457.9	1456.7	1456.5
157.5°	1497.8	1499.3	1501.0	1502.6	1504.3	1504.4	1503.2	1502.0	1500.8	1499.6	1499.3
160°	1526.8	1528.0	1529.1	1530.3	1531.5	1531.3	1529.9	1528.4	1527.0	1525.5	1525.5
162.5°	1548.7	1550.5	1552.4	1554.2	1556.1	1556.3	1554.8	1553.3	1552.0	1550.5	1550.2
165°	1580.1	1582.1	1584.2	1586.1	1588.2	1588.3	1586.6	1584.8	1583.1	1581.4	1581.4
167.5°	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9	1612.2	1610.4	1608.6	1606.8	1606.6
170°	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4	1626.4	1624.4	1622.4	1620.3	1620.3
172.5°	1630.7	1632.7	1634.8	1636.8	1638.8	1638.9	1637.1	1635.3	1633.6	1631.8	1631.8
175°	1642.4	1644.4	1646.4	1648.5	1650.5	1650.6	1648.9	1647.2	1645.5	1643.7	1643.7
177.5°	1648.6	1650.3	1651.8	1653.5	1655.1	1655.2	1653.8	1652.4	1651.1	1649.7	1649.7
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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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°	18.1	17.7	15.8	13.8	12.5	10.8	10.2	9.0	8.8	9.4	9.6
90°	23.7	19.9	16.2	12.8	10.0	7.1	4.2	1.3	4.2	7.1	10.0
92.5°	45.5	43.5	41.3	39.3	37.3	35.3	33.4	31.4	33.4	35.3	37.3
95°	91.4	89.1	86.9	84.7	82.7	80.7	78.6	76.6	78.6	80.7	82.7
97.5°	147.0	145.3	143.6	142.1	140.6	139.1	137.6	136.0	137.6	139.1	140.6
100°	188.0	186.5	185.1	183.5	181.8	180.0	178.3	176.6	178.3	180.0	181.8
102.5°	232.7	230.8	228.9	227.5	226.4	225.4	224.4	223.3	224.4	225.4	226.4
105°	301.2	298.6	296.0	294.5	293.9	293.3	292.7	292.1	292.7	293.3	293.9
107.5°	376.3	375.2	374.2	373.5	373.2	372.8	372.5	372.1	372.5	372.8	373.2
110°	426.0	425.4	424.8	424.3	423.7	423.1	422.6	422.0	422.6	423.1	423.7



TEST NUMBER: P332175-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	475.7	475.6	475.5	475.3	474.9	474.6	474.2	473.9	474.2	474.6	474.9
115°	554.2	554.8	555.4	555.3	554.4	553.5	552.7	551.8	552.7	553.5	554.4
117.5°	630.9	631.7	632.4	632.5	632.0	631.4	630.8	630.3	630.8	631.4	632.0
120°	683.2	684.7	686.1	686.0	684.2	682.5	680.8	679.1	680.8	682.5	684.2
122.5°	733.7	734.5	735.3	735.0	733.7	732.5	731.2	730.0	731.2	732.5	733.7
125°	810.0	810.6	811.1	811.1	810.2	809.3	808.4	807.5	808.4	809.3	810.2
127.5°	886.0	886.6	887.3	886.7	884.8	883.0	881.1	879.3	881.1	883.0	884.8
130°	935.2	936.1	936.9	936.3	933.9	931.6	929.4	927.0	929.4	931.6	933.9
132.5°	983.6	984.2	984.9	984.0	981.7	979.4	977.1	974.8	977.1	979.4	981.7
135°	1054.8	1055.2	1055.4	1054.7	1052.9	1051.2	1049.5	1047.8	1049.5	1051.2	1052.9
137.5°	1123.6	1122.9	1122.1	1121.0	1119.6	1118.2	1116.7	1115.3	1116.7	1118.2	1119.6
140°	1169.2	1169.0	1168.6	1167.8	1166.3	1164.9	1163.5	1162.0	1163.5	1164.9	1166.3
142.5°	1212.4	1211.9	1211.3	1210.4	1208.9	1207.5	1206.0	1204.6	1206.0	1207.5	1208.9
145°	1275.8	1275.0	1274.1	1273.4	1272.8	1272.2	1271.7	1271.1	1271.7	1272.2	1272.8
147.5°	1335.9	1335.2	1334.3	1333.4	1332.4	1331.3	1330.2	1329.2	1330.2	1331.3	1332.4
150°	1373.8	1373.2	1372.6	1372.1	1371.5	1370.9	1370.4	1369.8	1370.4	1370.9	1371.5
152.5°	1407.5	1407.1	1406.8	1406.2	1405.4	1404.6	1403.8	1403.0	1403.8	1404.6	1405.4
155°	1456.1	1455.9	1455.6	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4
157.5°	1499.1	1498.9	1498.7	1498.7	1499.1	1499.4	1499.8	1500.1	1499.8	1499.4	1499.1
160°	1525.5	1525.5	1525.5	1525.9	1526.4	1527.0	1527.6	1528.2	1527.6	1527.0	1526.4
162.5°	1550.1	1549.8	1549.5	1549.9	1550.7	1551.4	1552.3	1553.1	1552.3	1551.4	1550.7
165°	1581.4	1581.4	1581.4	1581.8	1582.7	1583.6	1584.4	1585.3	1584.4	1583.6	1582.7
167.5°	1606.4	1606.1	1605.9	1606.4	1607.5	1608.7	1609.8	1611.0	1609.8	1608.7	1607.5
170°	1620.3	1620.3	1620.3	1620.9	1622.0	1623.2	1624.4	1625.5	1624.4	1623.2	1622.0
172.5°	1631.8	1631.8	1631.8	1632.4	1633.5	1634.6	1635.8	1636.9	1635.8	1634.6	1633.5
175°	1643.7	1643.7	1643.7	1644.3	1645.5	1646.6	1647.8	1648.9	1647.8	1646.6	1645.5
177.5°	1649.7	1649.7	1649.7	1650.1	1651.1	1652.0	1652.9	1653.8	1652.9	1652.0	1651.1
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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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°	9.8	10.8	11.2	12.3	12.7	13.8	14.0	13.5	13.8	15.1	13.9
90°	12.8	16.2	19.9	23.7	27.4	31.2	32.3	33.5	34.6	35.8	36.7
92.5°	39.3	41.3	43.5	45.5	47.7	49.9	50.8	51.7	52.6	53.6	53.8
95°	84.7	86.9	89.1	91.4	93.8	96.1	97.2	98.4	99.5	100.7	101.3
97.5°	142.1	143.6	145.3	147.0	148.7	150.3	151.7	153.0	154.3	155.7	156.3
100°	183.5	185.1	186.5	188.0	189.4	190.9	191.7	192.6	193.5	194.3	195.0
102.5°	227.5	228.9	230.8	232.7	234.6	236.5	237.5	238.3	239.2	240.0	240.4
105°	294.5	296.0	298.6	301.2	303.8	306.4	306.4	306.4	306.4	306.4	306.7
107.5°	373.5	374.2	375.2	376.3	377.3	378.3	379.3	380.2	381.1	382.0	382.3
110°	424.3	424.8	425.4	426.0	426.5	427.1	428.3	429.5	430.6	431.8	432.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	475.3	475.5	475.6	475.7	475.9	476.0	477.3	478.7	480.1	481.5	482.2
115°	555.3	555.4	554.8	554.2	553.7	553.1	553.4	553.7	554.0	554.2	554.2
117.5°	632.5	632.4	631.7	630.9	630.2	629.5	629.4	629.3	629.3	629.2	628.8
120°	686.0	686.1	684.7	683.2	681.7	680.4	680.0	679.8	679.5	679.2	678.7
122.5°	735.0	735.3	734.5	733.7	733.1	732.3	731.5	730.7	730.0	729.3	728.5
125°	811.1	811.1	810.6	810.0	809.4	808.9	807.7	806.6	805.4	804.3	803.1
127.5°	886.7	887.3	886.6	886.0	885.4	884.7	883.0	881.5	879.9	878.2	876.8
130°	936.3	936.9	936.1	935.2	934.4	933.5	932.4	931.2	930.1	928.9	927.3
132.5°	984.0	984.9	984.2	983.6	982.9	982.3	980.9	979.6	978.2	976.8	975.3
135°	1054.7	1055.4	1055.2	1054.8	1054.6	1054.3	1053.1	1052.0	1050.8	1049.6	1048.8
137.5°	1121.0	1122.1	1122.9	1123.6	1124.4	1125.2	1123.9	1122.7	1121.5	1120.3	1119.1
140°	1167.8	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5	1169.2	1169.0	1168.6	1167.5
142.5°	1210.4	1211.3	1211.9	1212.4	1212.9	1213.4	1213.1	1212.9	1212.5	1212.3	1211.3
145°	1273.4	1274.1	1275.0	1275.8	1276.7	1277.6	1277.3	1276.9	1276.7	1276.4	1275.7
147.5°	1333.4	1334.3	1335.2	1335.9	1336.7	1337.6	1337.6	1337.6	1337.6	1337.6	1336.7
150°	1372.1	1372.6	1373.2	1373.8	1374.3	1374.9	1374.9	1374.9	1374.9	1374.9	1374.1
152.5°	1406.2	1406.8	1407.1	1407.5	1407.8	1408.2	1408.7	1409.1	1409.5	1410.1	1409.5
155°	1455.4	1455.6	1455.9	1456.1	1456.5	1456.7	1457.9	1459.1	1460.2	1461.4	1460.9
157.5°	1498.7	1498.7	1498.9	1499.1	1499.3	1499.6	1500.8	1502.0	1503.2	1504.4	1504.3
160°	1525.9	1525.5	1525.5	1525.5	1525.5	1525.5	1527.0	1528.4	1529.9	1531.3	1531.5
162.5°	1549.9	1549.5	1549.8	1550.1	1550.2	1550.5	1552.0	1553.3	1554.8	1556.3	1556.1
165°	1581.8	1581.4	1581.4	1581.4	1581.4	1581.4	1583.1	1584.8	1586.6	1588.3	1588.2
167.5°	1606.4	1605.9	1606.1	1606.4	1606.6	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9
170°	1620.9	1620.3	1620.3	1620.3	1620.3	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4
172.5°	1632.4	1631.8	1631.8	1631.8	1631.8	1631.8	1633.6	1635.3	1637.1	1638.9	1638.8
175°	1644.3	1643.7	1643.7	1643.7	1643.7	1643.7	1645.5	1647.2	1648.9	1650.6	1650.5
177.5°	1650.1	1649.7	1649.7	1649.7	1649.7	1649.7	1651.1	1652.4	1653.8	1655.2	1655.1
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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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°	13.9	14.0	13.8	13.5	13.8	14.0	13.9	13.9	15.1	13.8	13.5
90°	37.2	37.8	38.4	38.9	38.4	37.8	37.2	36.7	35.8	34.6	33.5
92.5°	53.5	53.1	52.8	52.4	52.8	53.1	53.5	53.8	53.6	52.6	51.7
95°	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	100.7	99.5	98.4
97.5°	156.2	156.0	155.9	155.8	155.9	156.0	156.2	156.3	155.7	154.3	153.0
100°	195.6	196.2	196.7	197.3	196.7	196.2	195.6	195.0	194.3	193.5	192.6
102.5°	240.3	240.1	240.0	240.0	240.0	240.1	240.3	240.4	240.0	239.2	238.3
105°	307.3	307.9	308.4	309.0	308.4	307.9	307.3	306.7	306.4	306.4	306.4
107.5°	381.9	381.6	381.3	380.9	381.3	381.6	381.9	382.3	382.0	381.1	380.2
110°	431.4	430.9	430.3	429.7	430.3	430.9	431.4	432.0	431.8	430.6	429.5



TEST NUMBER: P332175-935

CATALOG NUMBER: S123DIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	482.1	481.9	481.8	481.6	481.8	481.9	482.1	482.2	481.5	480.1	478.7
115°	554.0	553.7	553.4	553.1	553.4	553.7	554.0	554.2	554.2	554.0	553.7
117.5°	627.9	627.2	626.4	625.5	626.4	627.2	627.9	628.8	629.2	629.3	629.3
120°	678.2	677.6	677.0	676.4	677.0	677.6	678.2	678.7	679.2	679.5	679.8
122.5°	727.7	726.9	726.1	725.2	726.1	726.9	727.7	728.5	729.3	730.0	730.7
125°	801.9	800.8	799.6	798.5	799.6	800.8	801.9	803.1	804.3	805.4	806.6
127.5°	875.5	874.1	872.8	871.4	872.8	874.1	875.5	876.8	878.2	879.9	881.5
130°	925.3	923.3	921.3	919.2	921.3	923.3	925.3	927.3	928.9	930.1	931.2
132.5°	973.8	972.2	970.6	969.1	970.6	972.2	973.8	975.3	976.8	978.2	979.6
135°	1048.2	1047.6	1047.1	1046.5	1047.1	1047.6	1048.2	1048.8	1049.6	1050.8	1052.0
137.5°	1118.0	1117.0	1115.9	1114.7	1115.9	1117.0	1118.0	1119.1	1120.3	1121.5	1122.7
140°	1165.4	1163.5	1161.4	1159.4	1161.4	1163.5	1165.4	1167.5	1168.6	1169.0	1169.2
142.5°	1209.8	1208.2	1206.7	1205.1	1206.7	1208.2	1209.8	1211.3	1212.3	1212.5	1212.9
145°	1274.5	1273.4	1272.2	1271.1	1272.2	1273.4	1274.5	1275.7	1276.4	1276.7	1276.9
147.5°	1335.0	1333.3	1331.5	1329.7	1331.5	1333.3	1335.0	1336.7	1337.6	1337.6	1337.6
150°	1372.3	1370.6	1368.9	1367.2	1368.9	1370.6	1372.3	1374.1	1374.9	1374.9	1374.9
152.5°	1408.0	1406.5	1405.0	1403.5	1405.0	1406.5	1408.0	1409.5	1410.1	1409.5	1409.1
155°	1458.9	1456.9	1454.8	1452.9	1454.8	1456.9	1458.9	1460.9	1461.4	1460.2	1459.1
157.5°	1502.6	1501.0	1499.3	1497.8	1499.3	1501.0	1502.6	1504.3	1504.4	1503.2	1502.0
160°	1530.3	1529.1	1528.0	1526.8	1528.0	1529.1	1530.3	1531.5	1531.3	1529.9	1528.4
162.5°	1554.2	1552.4	1550.5	1548.7	1550.5	1552.4	1554.2	1556.1	1556.3	1554.8	1553.3
165°	1586.1	1584.2	1582.1	1580.1	1582.1	1584.2	1586.1	1588.2	1588.3	1586.6	1584.8
167.5°	1612.2	1610.4	1608.6	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9	1612.2	1610.4
170°	1626.4	1624.4	1622.4	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4	1626.4	1624.4
172.5°	1636.8	1634.8	1632.7	1630.7	1632.7	1634.8	1636.8	1638.8	1638.9	1637.1	1635.3
175°	1648.5	1646.4	1644.4	1642.4	1644.4	1646.4	1648.5	1650.5	1650.6	1648.9	1647.2
177.5°	1653.5	1651.8	1650.3	1648.6	1650.3	1651.8	1653.5	1655.1	1655.2	1653.8	1652.4
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332175-935

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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°	14.0	13.8	12.7	12.3	11.2	10.8	9.8	9.6	9.4	8.8	9.0
90°	32.3	31.2	27.4	23.7	19.9	16.2	12.8	10.0	7.1	4.2	1.3
92.5°	50.8	49.9	47.7	45.5	43.5	41.3	39.3	37.3	35.3	33.4	31.4
95°	97.2	96.1	93.8	91.4	89.1	86.9	84.7	82.7	80.7	78.6	76.6
97.5°	151.7	150.3	148.7	147.0	145.3	143.6	142.1	140.6	139.1	137.6	136.0
100°	191.7	190.9	189.4	188.0	186.5	185.1	183.5	181.8	180.0	178.3	176.6
102.5°	237.5	236.5	234.6	232.7	230.8	228.9	227.5	226.4	225.4	224.4	223.3
105°	306.4	306.4	303.8	301.2	298.6	296.0	294.5	293.9	293.3	292.7	292.1
107.5°	379.3	378.3	377.3	376.3	375.2	374.2	373.5	373.2	372.8	372.5	372.1
110°	428.3	427.1	426.5	426.0	425.4	424.8	424.3	423.7	423.1	422.6	422.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	477.3	476.0	475.9	475.7	475.6	475.5	475.3	474.9	474.6	474.2	473.9
115°	553.4	553.1	553.7	554.2	554.8	555.4	555.3	554.4	553.5	552.7	551.8
117.5°	629.4	629.5	630.2	630.9	631.7	632.4	632.5	632.0	631.4	630.8	630.3
120°	680.0	680.4	681.7	683.2	684.7	686.1	686.0	684.2	682.5	680.8	679.1
122.5°	731.5	732.3	733.1	733.7	734.5	735.3	735.0	733.7	732.5	731.2	730.0
125°	807.7	808.9	809.4	810.0	810.6	811.1	811.1	810.2	809.3	808.4	807.5
127.5°	883.0	884.7	885.4	886.0	886.6	887.3	886.7	884.8	883.0	881.1	879.3
130°	932.4	933.5	934.4	935.2	936.1	936.9	936.3	933.9	931.6	929.4	927.0
132.5°	980.9	982.3	982.9	983.6	984.2	984.9	984.0	981.7	979.4	977.1	974.8
135°	1053.1	1054.3	1054.6	1054.8	1055.2	1055.4	1054.7	1052.9	1051.2	1049.5	1047.8
137.5°	1123.9	1125.2	1124.4	1123.6	1122.9	1122.1	1121.0	1119.6	1118.2	1116.7	1115.3
140°	1169.5	1169.8	1169.5	1169.2	1169.0	1168.6	1167.8	1166.3	1164.9	1163.5	1162.0
142.5°	1213.1	1213.4	1212.9	1212.4	1211.9	1211.3	1210.4	1208.9	1207.5	1206.0	1204.6
145°	1277.3	1277.6	1276.7	1275.8	1275.0	1274.1	1273.4	1272.8	1272.2	1271.7	1271.1
147.5°	1337.6	1337.6	1336.7	1335.9	1335.2	1334.3	1333.4	1332.4	1331.3	1330.2	1329.2
150°	1374.9	1374.9	1374.3	1373.8	1373.2	1372.6	1372.1	1371.5	1370.9	1370.4	1369.8
152.5°	1408.7	1408.2	1407.8	1407.5	1407.1	1406.8	1406.2	1405.4	1404.6	1403.8	1403.0
155°	1457.9	1456.7	1456.5	1456.1	1455.9	1455.6	1455.4	1455.4	1455.4	1455.4	1455.4
157.5°	1500.8	1499.6	1499.3	1499.1	1498.9	1498.7	1498.7	1499.1	1499.4	1499.8	1500.1
160°	1527.0	1525.5	1525.5	1525.5	1525.5	1525.5	1525.9	1526.4	1527.0	1527.6	1528.2
162.5°	1552.0	1550.5	1550.2	1550.1	1549.8	1549.5	1549.9	1550.7	1551.4	1552.3	1553.1
165°	1583.1	1581.4	1581.4	1581.4	1581.4	1581.4	1581.8	1582.7	1583.6	1584.4	1585.3
167.5°	1608.6	1606.8	1606.6	1606.4	1606.1	1605.9	1606.4	1607.5	1608.7	1609.8	1611.0
170°	1622.4	1620.3	1620.3	1620.3	1620.3	1620.3	1620.9	1622.0	1623.2	1624.4	1625.5
172.5°	1633.6	1631.8	1631.8	1631.8	1631.8	1631.8	1632.4	1633.5	1634.6	1635.8	1636.9
175°	1645.5	1643.7	1643.7	1643.7	1643.7	1643.7	1644.3	1645.5	1646.6	1647.8	1648.9
177.5°	1651.1	1649.7	1649.7	1649.7	1649.7	1649.7	1650.1	1651.1	1652.0	1652.9	1653.8
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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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°	10.2	10.8	12.5	13.8	15.8	17.7	18.1	18.1	18.5	18.3	18.3
90°	4.2	7.1	10.0	12.8	16.2	19.9	23.7	27.4	31.2	32.3	33.5
92.5°	33.4	35.3	37.3	39.3	41.3	43.5	45.5	47.7	49.9	50.8	51.7
95°	78.6	80.7	82.7	84.7	86.9	89.1	91.4	93.8	96.1	97.2	98.4
97.5°	137.6	139.1	140.6	142.1	143.6	145.3	147.0	148.7	150.3	151.7	153.0
100°	178.3	180.0	181.8	183.5	185.1	186.5	188.0	189.4	190.9	191.7	192.6
102.5°	224.4	225.4	226.4	227.5	228.9	230.8	232.7	234.6	236.5	237.5	238.3
105°	292.7	293.3	293.9	294.5	296.0	298.6	301.2	303.8	306.4	306.4	306.4
107.5°	372.5	372.8	373.2	373.5	374.2	375.2	376.3	377.3	378.3	379.3	380.2
110°	422.6	423.1	423.7	424.3	424.8	425.4	426.0	426.5	427.1	428.3	429.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	474.2	474.6	474.9	475.3	475.5	475.6	475.7	475.9	476.0	477.3	478.7
115°	552.7	553.5	554.4	555.3	555.4	554.8	554.2	553.7	553.1	553.4	553.7
117.5°	630.8	631.4	632.0	632.5	632.4	631.7	630.9	630.2	629.5	629.4	629.3
120°	680.8	682.5	684.2	686.0	686.1	684.7	683.2	681.7	680.4	680.0	679.8
122.5°	731.2	732.5	733.7	735.0	735.3	734.5	733.7	733.1	732.3	731.5	730.7
125°	808.4	809.3	810.2	811.1	811.1	810.6	810.0	809.4	808.9	807.7	806.6
127.5°	881.1	883.0	884.8	886.7	887.3	886.6	886.0	885.4	884.7	883.0	881.5
130°	929.4	931.6	933.9	936.3	936.9	936.1	935.2	934.4	933.5	932.4	931.2
132.5°	977.1	979.4	981.7	984.0	984.9	984.2	983.6	982.9	982.3	980.9	979.6
135°	1049.5	1051.2	1052.9	1054.7	1055.4	1055.2	1054.8	1054.6	1054.3	1053.1	1052.0
137.5°	1116.7	1118.2	1119.6	1121.0	1122.1	1122.9	1123.6	1124.4	1125.2	1123.9	1122.7
140°	1163.5	1164.9	1166.3	1167.8	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5	1169.2
142.5°	1206.0	1207.5	1208.9	1210.4	1211.3	1211.9	1212.4	1212.9	1213.4	1213.1	1212.9
145°	1271.7	1272.2	1272.8	1273.4	1274.1	1275.0	1275.8	1276.7	1277.6	1277.3	1276.9
147.5°	1330.2	1331.3	1332.4	1333.4	1334.3	1335.2	1335.9	1336.7	1337.6	1337.6	1337.6
150°	1370.4	1370.9	1371.5	1372.1	1372.6	1373.2	1373.8	1374.3	1374.9	1374.9	1374.9
152.5°	1403.8	1404.6	1405.4	1406.2	1406.8	1407.1	1407.5	1407.8	1408.2	1408.7	1409.1
155°	1455.4	1455.4	1455.4	1455.4	1455.6	1455.9	1456.1	1456.5	1456.7	1457.9	1459.1
157.5°	1499.8	1499.4	1499.1	1498.7	1498.7	1498.9	1499.1	1499.3	1499.6	1500.8	1502.0
160°	1527.6	1527.0	1526.4	1525.9	1525.5	1525.5	1525.5	1525.5	1525.5	1527.0	1528.4
162.5°	1552.3	1551.4	1550.7	1549.9	1549.5	1549.8	1550.1	1550.2	1550.5	1552.0	1553.3
165°	1584.4	1583.6	1582.7	1581.8	1581.4	1581.4	1581.4	1581.4	1581.4	1583.1	1584.8
167.5°	1609.8	1608.7	1607.5	1606.4	1605.9	1606.1	1606.4	1606.6	1606.8	1608.6	1610.4
170°	1624.4	1623.2	1622.0	1620.9	1620.3	1620.3	1620.3	1620.3	1620.3	1622.4	1624.4
172.5°	1635.8	1634.6	1633.5	1632.4	1631.8	1631.8	1631.8	1631.8	1631.8	1633.6	1635.3
175°	1647.8	1646.6	1645.5	1644.3	1643.7	1643.7	1643.7	1643.7	1643.7	1645.5	1647.2
177.5°	1652.9	1652.0	1651.1	1650.1	1649.7	1649.7	1649.7	1649.7	1649.7	1651.1	1652.4
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



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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°	18.1	18.0	17.8	18.3	18.0	17.7	18.6
90°	34.6	35.8	36.7	37.2	37.8	38.4	38.9
92.5°	52.6	53.6	53.8	53.5	53.1	52.8	52.4
95°	99.5	100.7	101.3	101.3	101.3	101.3	101.3
97.5°	154.3	155.7	156.3	156.2	156.0	155.9	155.8
100°	193.5	194.3	195.0	195.6	196.2	196.7	197.3
102.5°	239.2	240.0	240.4	240.3	240.1	240.0	240.0
105°	306.4	306.4	306.7	307.3	307.9	308.4	309.0
107.5°	381.1	382.0	382.3	381.9	381.6	381.3	380.9
110°	430.6	431.8	432.0	431.4	430.9	430.3	429.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	480.1	481.5	482.2	482.1	481.9	481.8	481.6
115°	554.0	554.2	554.2	554.0	553.7	553.4	553.1
117.5°	629.3	629.2	628.8	627.9	627.2	626.4	625.5
120°	679.5	679.2	678.7	678.2	677.6	677.0	676.4
122.5°	730.0	729.3	728.5	727.7	726.9	726.1	725.2
125°	805.4	804.3	803.1	801.9	800.8	799.6	798.5
127.5°	879.9	878.2	876.8	875.5	874.1	872.8	871.4
130°	930.1	928.9	927.3	925.3	923.3	921.3	919.2
132.5°	978.2	976.8	975.3	973.8	972.2	970.6	969.1
135°	1050.8	1049.6	1048.8	1048.2	1047.6	1047.1	1046.5
137.5°	1121.5	1120.3	1119.1	1118.0	1117.0	1115.9	1114.7
140°	1169.0	1168.6	1167.5	1165.4	1163.5	1161.4	1159.4
142.5°	1212.5	1212.3	1211.3	1209.8	1208.2	1206.7	1205.1
145°	1276.7	1276.4	1275.7	1274.5	1273.4	1272.2	1271.1
147.5°	1337.6	1337.6	1336.7	1335.0	1333.3	1331.5	1329.7
150°	1374.9	1374.9	1374.1	1372.3	1370.6	1368.9	1367.2
152.5°	1409.5	1410.1	1409.5	1408.0	1406.5	1405.0	1403.5
155°	1460.2	1461.4	1460.9	1458.9	1456.9	1454.8	1452.9
157.5°	1503.2	1504.4	1504.3	1502.6	1501.0	1499.3	1497.8
160°	1529.9	1531.3	1531.5	1530.3	1529.1	1528.0	1526.8
162.5°	1554.8	1556.3	1556.1	1554.2	1552.4	1550.5	1548.7
165°	1586.6	1588.3	1588.2	1586.1	1584.2	1582.1	1580.1
167.5°	1612.2	1613.9	1613.9	1612.2	1610.4	1608.6	1606.8
170°	1626.4	1628.4	1628.4	1626.4	1624.4	1622.4	1620.3
172.5°	1637.1	1638.9	1638.8	1636.8	1634.8	1632.7	1630.7
175°	1648.9	1650.6	1650.5	1648.5	1646.4	1644.4	1642.4
177.5°	1653.8	1655.2	1655.1	1653.5	1651.8	1650.3	1648.6
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8

(END OF REPORT)