

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: P332770-830

Luminaire Tested: **S124DIW-S575D1560U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332770-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S575D1560U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7546.3 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

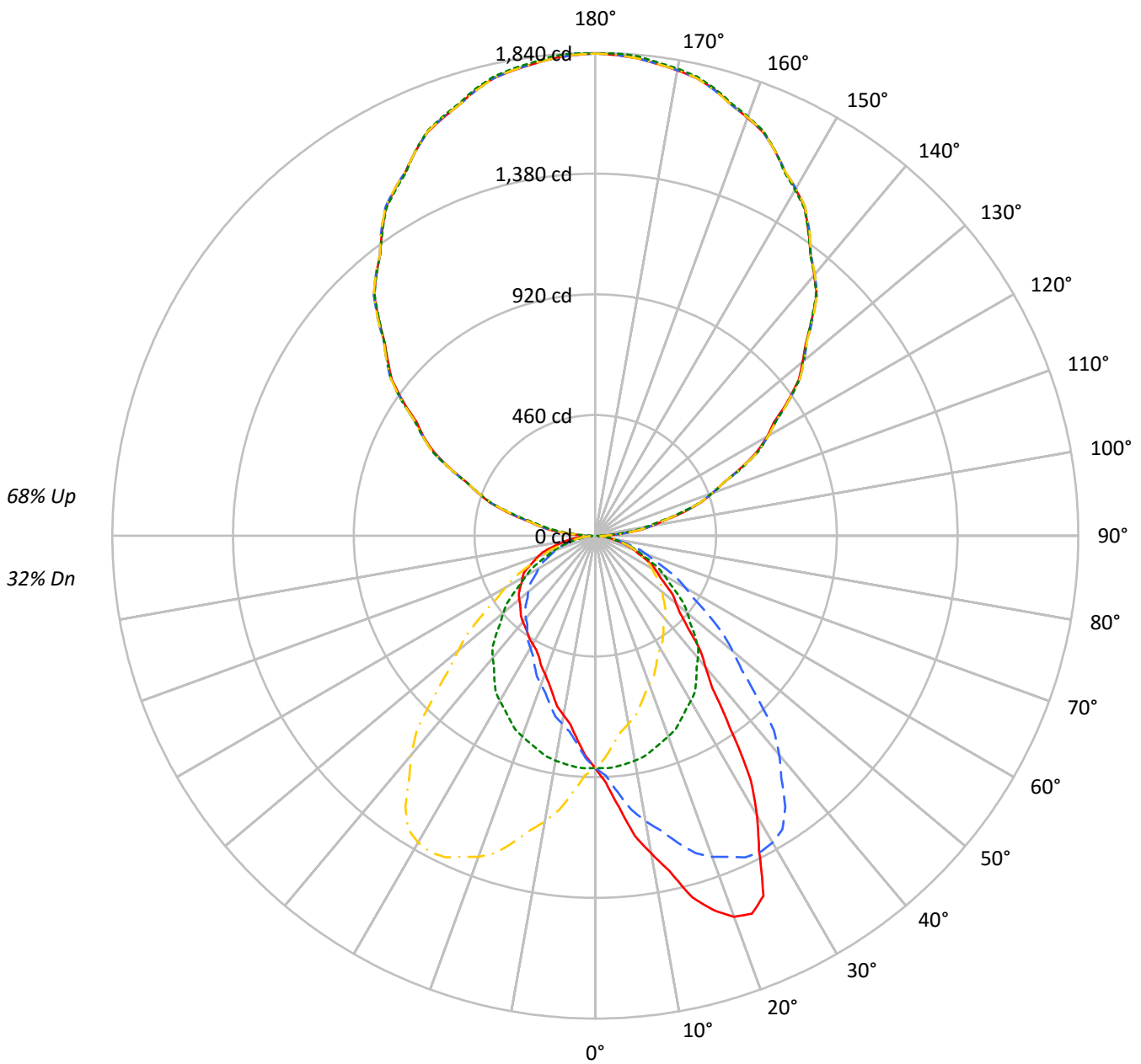
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	21	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7146	7146	7146	7146
5°	8417	7165	6324	7165
10°	10077	7133	5694	7133
15°	11922	7061	5229	7061
20°	13277	6988	4814	6988
25°	13491	6879	4528	6879
30°	11479	6776	4437	6776
35°	8825	6606	4438	6606
40°	6880	6407	4521	6407
45°	5736	6109	4598	6109
50°	5048	5743	4752	5743
55°	4625	5306	4944	5306
60°	4334	4913	5176	4913
65°	4034	4476	5366	4476
70°	3687	4043	5488	4043
75°	3297	3556	5421	3556
80°	2762	2915	5249	2915
85°	2038	2103	5030	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.1
10°-20°	265.8	3.5
20°-30°	421.5	5.6
30°-40°	469.1	6.2
40°-50°	427.0	5.7
50°-60°	349.0	4.6
60°-70°	249.1	3.3
70°-80°	137.2	1.8
80°-90°	42.9	0.6
90°-100°	121.2	1.6
100°-110°	359.1	4.8
110°-120°	609.4	8.1
120°-130°	803.6	10.6
130°-140°	902.4	12.0
140°-150°	886.8	11.8
150°-160°	745.9	9.9
160°-170°	496.2	6.6
170°-180°	173.8	2.3
0°-30°	773.6	10.3
0°-40°	1242.8	16.5
0°-60°	2018.8	26.8
0°-90°	2448.0	32.4
90°-120°	1089.7	14.4
90°-150°	3682.5	48.8
90°-180°	5098.0	67.6
0°-180°	7546.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	885	885	885	885	885	
5°	1039	884	780	884	1039	106
15°	1426	845	626	845	1426	403
25°	1515	772	508	772	1515	668
35°	896	670	450	670	896	568
45°	502	535	403	535	502	396
55°	329	377	351	377	329	297
65°	211	234	281	234	211	209
75°	106	114	174	114	106	112
85°	22	23	54	23	22	28
90°	43	4	43	4	43	22
95°	112	85	112	85	112	117
105°	347	331	347	331	347	365
115°	614	620	614	620	614	607
125°	895	902	895	902	895	799
135°	1165	1164	1165	1164	1165	900
145°	1416	1414	1416	1414	1416	886
155°	1619	1620	1619	1620	1619	745
165°	1759	1764	1759	1764	1759	495
175°	1826	1835	1826	1835	1826	173
180°	1838	1838	1838	1838	1838	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	942.2	941.9	939.0	938.4	936.3	933.7	933.1	928.4	919.0	914.6	913.4
5°	1038.6	1045.9	1036.3	1034.5	1033.4	1021.3	1015.1	1007.8	990.9	981.0	973.3
7.5°	1153.6	1154.4	1150.3	1146.9	1137.6	1127.0	1111.2	1094.3	1074.2	1053.3	1037.6
10°	1229.3	1232.2	1227.5	1226.7	1208.0	1196.3	1172.8	1153.0	1130.2	1104.9	1081.9
12.5°	1309.1	1305.0	1302.5	1286.9	1283.4	1262.0	1234.7	1214.3	1179.2	1150.1	1119.4
15°	1426.5	1418.5	1413.3	1391.8	1381.1	1351.4	1322.4	1300.0	1254.2	1210.6	1177.5
17.5°	1495.5	1503.5	1491.7	1482.8	1455.3	1434.5	1404.9	1357.9	1322.0	1267.8	1226.2
20°	1545.4	1546.1	1539.5	1530.3	1508.7	1482.3	1450.0	1398.7	1355.8	1301.8	1244.6
22.5°	1558.9	1559.1	1556.2	1547.7	1531.3	1509.9	1477.3	1434.5	1382.5	1323.9	1266.7
25°	1514.6	1513.2	1516.5	1526.0	1519.8	1513.2	1494.4	1462.5	1414.1	1352.1	1290.5
27.5°	1350.0	1360.1	1378.8	1402.2	1424.8	1442.0	1446.9	1440.4	1410.3	1359.3	1294.9
30°	1231.4	1244.0	1257.8	1281.4	1326.8	1352.8	1381.5	1403.1	1391.0	1350.3	1290.2
32.5°	1101.2	1104.3	1124.9	1151.7	1193.4	1243.4	1288.7	1332.7	1347.3	1326.0	1275.7
35°	895.5	900.7	923.0	949.4	1000.4	1061.7	1129.9	1190.7	1241.0	1261.2	1235.5
37.5°	730.8	745.6	761.3	789.7	834.6	889.8	960.6	1039.3	1114.3	1164.4	1172.9
40°	652.8	661.9	673.4	694.9	733.1	787.4	848.2	938.5	1018.0	1090.0	1113.4
42.5°	591.2	596.5	603.5	623.0	652.1	706.1	761.7	841.0	921.0	1006.9	1046.2
45°	502.4	507.9	519.6	531.0	553.0	590.4	642.2	707.4	787.7	870.6	943.2
47.5°	438.3	441.9	448.8	461.0	479.7	504.4	546.4	600.9	675.3	755.8	833.2
50°	401.9	404.8	410.4	421.4	435.6	457.7	492.1	543.1	601.4	682.5	758.4
52.5°	373.2	374.4	378.4	385.9	397.3	415.8	444.0	486.2	540.5	612.7	688.2
55°	328.6	330.1	333.8	339.2	349.1	360.9	382.5	414.1	461.4	524.1	589.7
57.5°	291.9	292.9	296.1	298.1	306.3	315.8	332.4	355.0	390.9	444.0	502.7
60°	268.4	267.7	271.4	273.2	278.7	286.8	299.6	321.2	352.4	395.3	449.2
62.5°	245.5	244.5	247.6	250.1	253.2	260.0	270.6	287.5	312.8	351.7	398.2
65°	211.2	209.8	211.6	214.5	217.4	221.1	228.8	243.8	264.0	291.9	327.4
67.5°	176.7	178.3	178.6	180.0	181.7	186.7	192.0	202.6	216.9	239.2	269.3
70°	156.2	156.6	158.1	158.1	159.2	163.5	168.0	174.2	188.1	208.7	233.3
72.5°	135.7	137.2	136.7	137.8	138.6	141.6	144.8	150.7	162.6	177.9	198.6
75°	105.7	106.7	106.7	107.1	108.2	109.2	111.9	116.2	124.7	136.0	150.3
77.5°	77.0	77.2	77.7	79.0	79.0	80.8	82.7	86.1	90.4	98.1	106.9
80°	59.4	60.1	59.8	60.5	60.5	62.0	62.7	67.1	68.9	74.1	81.1
82.5°	43.5	44.3	44.2	45.2	45.8	46.1	47.1	48.9	50.7	55.3	58.2
85°	22.0	22.7	22.0	22.7	23.8	24.2	25.3	25.6	27.1	28.3	30.8
87.5°	15.0	15.7	15.6	15.7	16.2	16.3	16.2	15.6	16.3	16.2	16.9
90°	42.6	42.0	41.4	40.7	40.2	38.8	36.9	35.1	33.2	31.3	28.7
92.5°	63.1	62.7	62.3	61.9	61.5	60.8	59.7	58.5	57.4	56.3	54.5
95°	112.3	112.3	112.3	112.3	112.3	111.8	110.8	109.9	109.0	108.0	105.8
97.5°	176.0	176.0	176.0	176.0	176.0	175.4	174.3	173.1	171.9	170.8	168.2
100°	220.3	220.3	220.3	220.3	220.3	220.0	219.3	218.7	218.1	217.4	214.6
102.5°	270.3	270.0	269.8	269.6	269.3	268.7	267.9	266.9	266.1	265.2	262.6
105°	346.8	345.8	344.9	343.9	343.0	342.0	341.1	340.2	339.2	338.3	337.0
107.5°	421.2	421.3	421.4	421.4	421.5	421.1	420.2	419.3	418.4	417.5	417.4
110°	474.7	473.7	472.8	471.8	470.9	470.7	471.4	472.0	472.6	473.3	473.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	529.2	529.0	528.9	528.7	528.5	528.5	528.6	528.7	528.9	529.0	529.5
115°	614.0	614.3	614.6	614.9	615.2	615.6	615.9	616.1	616.5	616.8	617.5
117.5°	694.7	695.3	696.0	696.5	697.2	698.0	699.2	700.2	701.3	702.4	702.8
120°	756.1	755.4	754.8	754.2	753.6	754.0	755.6	757.1	758.7	760.3	761.3
122.5°	807.3	808.4	809.5	810.7	811.8	812.9	814.0	815.0	816.1	817.2	817.7
125°	895.3	896.0	896.6	897.2	897.9	898.5	899.2	899.8	900.4	901.1	901.4
127.5°	976.9	977.4	978.0	978.5	978.9	979.5	980.1	980.8	981.4	982.0	982.6
130°	1030.4	1031.6	1032.9	1034.2	1035.4	1036.3	1037.0	1037.6	1038.3	1038.9	1038.9
132.5°	1087.2	1087.7	1088.3	1088.7	1089.2	1089.8	1090.4	1091.1	1091.7	1092.3	1092.6
135°	1165.4	1166.3	1167.2	1168.2	1169.1	1170.0	1170.6	1171.2	1171.9	1172.5	1172.5
137.5°	1247.5	1247.4	1247.2	1247.0	1246.8	1247.1	1247.9	1248.8	1249.5	1250.4	1249.9
140°	1297.6	1297.9	1298.2	1298.5	1298.8	1299.1	1299.5	1299.8	1300.0	1300.4	1300.4
142.5°	1347.6	1347.6	1347.7	1347.7	1347.8	1347.9	1347.9	1348.0	1348.1	1348.1	1348.4
145°	1415.5	1416.5	1417.4	1418.3	1419.3	1419.9	1420.2	1420.6	1420.9	1421.2	1420.9
147.5°	1484.3	1484.6	1485.0	1485.3	1485.5	1485.8	1486.1	1486.4	1486.6	1486.9	1487.1
150°	1526.4	1526.7	1527.0	1527.3	1527.7	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8
152.5°	1565.0	1565.8	1566.7	1567.4	1568.3	1568.3	1567.5	1566.8	1566.0	1565.3	1565.1
155°	1618.7	1620.0	1621.3	1622.5	1623.8	1623.8	1622.5	1621.3	1620.0	1618.7	1619.1
157.5°	1666.8	1667.8	1669.0	1670.0	1671.0	1671.1	1670.2	1669.2	1668.3	1667.4	1667.5
160°	1694.0	1695.6	1697.2	1698.8	1700.3	1700.7	1699.8	1698.8	1697.9	1697.0	1697.2
162.5°	1722.5	1724.1	1725.7	1727.2	1728.8	1728.7	1727.0	1725.3	1723.6	1721.9	1722.2
165°	1759.4	1760.7	1762.0	1763.2	1764.5	1764.2	1762.3	1760.4	1758.5	1756.6	1757.3
167.5°	1785.8	1787.8	1789.8	1791.8	1793.8	1793.8	1791.9	1790.0	1788.1	1786.2	1786.1
170°	1800.6	1802.9	1805.1	1807.3	1809.5	1809.7	1807.8	1805.9	1803.9	1802.0	1801.8
172.5°	1813.2	1815.3	1817.6	1819.8	1822.0	1822.0	1819.9	1817.8	1815.6	1813.5	1813.4
175°	1826.3	1828.4	1830.7	1832.9	1835.1	1835.1	1832.9	1830.7	1828.4	1826.3	1826.6
177.5°	1833.1	1835.1	1837.1	1839.1	1841.2	1841.3	1839.5	1837.8	1836.0	1834.2	1834.2
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	913.7	909.6	906.7	904.4	897.9	894.1	891.2	887.0	882.3	877.3	871.2
5°	965.6	953.1	944.0	930.0	916.8	905.8	894.5	884.2	871.7	858.2	848.2
7.5°	1020.1	1001.5	977.8	957.2	934.0	913.8	895.8	877.3	858.1	839.4	822.4
10°	1054.7	1030.9	1004.5	973.3	944.0	917.9	893.7	870.2	847.5	824.7	805.3
12.5°	1091.9	1062.2	1023.2	986.7	953.9	919.1	889.9	861.1	833.7	809.8	787.1
15°	1142.0	1099.1	1054.0	1005.2	962.0	921.2	881.3	844.9	814.2	782.6	760.6
17.5°	1172.7	1119.6	1068.1	1017.1	964.7	913.3	870.2	828.4	789.8	758.5	730.8
20°	1193.0	1140.2	1076.0	1025.0	962.6	909.8	860.0	813.4	773.1	739.7	711.1
22.5°	1210.6	1149.5	1085.3	1018.2	956.2	900.1	845.6	798.7	757.5	722.4	694.9
25°	1220.1	1150.1	1080.3	1013.6	943.2	876.8	827.4	772.3	728.3	691.3	661.9
27.5°	1221.2	1146.2	1067.4	993.3	920.6	858.8	796.3	747.1	701.4	662.2	634.0
30°	1217.9	1139.8	1055.1	974.8	901.8	834.6	780.4	726.9	680.2	641.4	612.1
32.5°	1207.6	1126.2	1039.2	954.2	878.6	812.9	757.0	706.1	660.6	622.4	591.5
35°	1177.9	1097.6	1004.8	916.4	839.1	772.7	722.1	670.3	624.9	588.6	558.9
37.5°	1131.5	1058.9	964.6	873.1	797.1	730.5	680.2	633.6	592.6	555.6	525.2
40°	1091.0	1027.2	932.6	843.5	761.3	697.9	650.9	608.0	567.3	532.4	503.5
42.5°	1044.3	988.7	901.4	807.1	727.8	664.1	618.4	579.9	541.5	509.3	480.3
45°	961.2	924.5	842.4	755.1	672.6	612.5	568.8	535.1	502.8	471.3	447.0
47.5°	865.5	847.3	778.2	695.3	617.0	557.7	519.9	488.7	460.4	433.7	412.4
50°	801.3	792.5	732.7	652.8	578.0	522.3	484.1	457.3	433.1	409.6	389.5
52.5°	737.9	737.6	683.7	610.5	541.3	487.6	449.8	424.7	403.8	384.7	366.6
55°	641.0	651.3	609.2	543.8	481.9	433.5	399.4	377.0	362.3	346.6	333.0
57.5°	552.0	569.1	534.3	476.8	425.1	380.5	350.8	334.0	318.4	308.9	299.0
60°	494.0	510.1	483.0	434.6	385.8	347.6	319.4	304.3	290.8	284.2	277.2
62.5°	442.3	456.8	436.6	391.7	349.4	312.7	288.9	274.5	265.3	258.1	253.4
65°	368.5	380.7	363.4	330.8	294.5	265.1	245.7	234.3	225.6	222.6	217.4
67.5°	297.9	309.0	299.6	271.9	242.8	220.6	205.4	194.4	189.3	186.6	183.0
70°	256.0	267.0	257.0	232.9	210.5	191.8	177.5	171.3	165.8	164.7	159.6
72.5°	220.5	228.0	218.0	199.2	180.0	164.2	153.2	146.7	143.7	141.8	139.0
75°	165.4	172.0	165.4	150.7	137.1	126.1	116.6	114.0	110.7	109.6	107.8
77.5°	117.1	122.8	117.7	108.6	98.4	89.9	84.8	81.5	80.8	78.9	79.7
80°	89.4	93.1	88.4	82.2	74.1	68.2	64.6	62.7	60.5	59.8	61.3
82.5°	64.3	65.9	63.4	59.3	53.3	49.4	46.9	44.8	44.4	44.5	44.5
85°	33.4	33.0	32.6	28.9	27.1	24.6	23.1	22.7	22.3	23.1	23.8
87.5°	16.4	16.2	15.4	13.6	12.1	10.5	9.4	8.5	9.4	10.5	11.4
90°	26.2	23.7	21.2	18.2	14.7	11.2	7.7	4.2	7.7	11.2	14.7
92.5°	52.8	51.0	49.2	46.4	42.3	38.4	34.4	30.4	34.4	38.4	42.3
95°	103.6	101.4	99.2	96.6	93.8	91.0	88.1	85.3	88.1	91.0	93.8
97.5°	165.6	163.1	160.5	158.1	155.8	153.4	151.2	148.9	151.2	153.4	155.8
100°	211.8	209.0	206.0	204.1	202.7	201.5	200.2	199.0	200.2	201.5	202.7
102.5°	260.0	257.4	254.9	253.3	252.8	252.3	251.8	251.3	251.8	252.3	252.8
105°	335.7	334.4	333.2	332.4	332.1	331.8	331.5	331.1	331.5	331.8	332.1
107.5°	417.2	417.0	416.8	416.5	416.1	415.8	415.4	415.0	415.4	415.8	416.1
110°	473.9	474.2	474.6	474.4	473.7	473.1	472.5	471.8	472.5	473.1	473.7



TEST NUMBER: P332770-830

CATALOG NUMBER: S124DIW-S575D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	530.1	530.7	531.2	531.5	531.3	531.2	531.1	530.9	531.1	531.2	531.3
115°	618.0	618.7	619.3	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6
117.5°	703.2	703.7	704.2	704.3	704.0	703.7	703.4	703.2	703.4	703.7	704.0
120°	762.2	763.2	764.1	763.9	762.7	761.5	760.2	758.9	760.2	761.5	762.7
122.5°	818.0	818.5	819.0	818.9	818.4	817.9	817.4	816.9	817.4	817.9	818.4
125°	901.6	902.0	902.3	902.5	902.5	902.5	902.5	902.5	902.5	902.5	902.5
127.5°	983.1	983.5	984.1	983.8	982.9	981.9	981.0	980.1	981.0	981.9	982.9
130°	1038.9	1038.9	1038.9	1038.4	1037.5	1036.5	1035.6	1034.6	1035.6	1036.5	1037.5
132.5°	1092.9	1093.1	1093.3	1093.2	1092.4	1091.7	1091.1	1090.3	1091.1	1091.7	1092.4
135°	1172.5	1172.5	1172.5	1171.6	1169.7	1167.7	1165.8	1163.9	1165.8	1167.7	1169.7
137.5°	1249.3	1248.9	1248.4	1247.6	1246.8	1245.9	1245.0	1244.2	1245.0	1245.9	1246.8
140°	1300.4	1300.4	1300.4	1300.0	1299.5	1298.8	1298.2	1297.6	1298.2	1298.8	1299.5
142.5°	1348.7	1348.9	1349.2	1349.0	1348.3	1347.7	1347.1	1346.4	1347.1	1347.7	1348.3
145°	1420.6	1420.2	1419.9	1419.2	1417.9	1416.6	1415.3	1414.1	1415.3	1416.6	1417.9
147.5°	1487.3	1487.6	1487.9	1487.2	1485.7	1484.2	1482.7	1481.2	1482.7	1484.2	1485.7
150°	1527.8	1527.8	1527.8	1527.2	1525.9	1524.7	1523.3	1522.1	1523.3	1524.7	1525.9
152.5°	1564.8	1564.5	1564.3	1563.8	1563.0	1562.3	1561.5	1560.8	1561.5	1562.3	1563.0
155°	1619.4	1619.7	1620.0	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1
157.5°	1667.5	1667.5	1667.6	1667.9	1668.5	1669.1	1669.6	1670.2	1669.6	1669.1	1668.5
160°	1697.5	1697.9	1698.2	1698.5	1698.8	1699.1	1699.4	1699.8	1699.4	1699.1	1698.8
162.5°	1722.6	1722.9	1723.2	1723.7	1724.6	1725.4	1726.3	1727.0	1726.3	1725.4	1724.6
165°	1757.8	1758.5	1759.2	1759.9	1760.9	1761.8	1762.7	1763.7	1762.7	1761.8	1760.9
167.5°	1786.0	1786.0	1785.9	1786.6	1787.9	1789.2	1790.5	1791.9	1790.5	1789.2	1787.9
170°	1801.5	1801.1	1800.8	1801.5	1803.0	1804.6	1806.2	1807.8	1806.2	1804.6	1803.0
172.5°	1813.4	1813.3	1813.2	1813.8	1815.1	1816.5	1817.8	1819.1	1817.8	1816.5	1815.1
175°	1826.8	1827.2	1827.5	1828.4	1830.0	1831.6	1833.2	1834.8	1833.2	1831.6	1830.0
177.5°	1834.2	1834.2	1834.2	1834.8	1836.1	1837.4	1838.6	1839.8	1838.6	1837.4	1836.1
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



TEST NUMBER: P332770-830

CATALOG NUMBER: S124DIW-S575D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	868.3	865.6	861.8	856.5	852.2	847.4	846.2	844.5	848.0	845.1	844.2
5°	839.8	832.1	822.2	810.9	804.3	794.7	792.9	789.2	785.5	785.1	781.5
7.5°	809.6	798.3	785.4	773.8	763.1	752.7	745.8	744.4	739.0	735.8	732.2
10°	790.3	776.4	761.3	750.4	737.8	726.9	719.2	714.7	711.1	707.0	703.4
12.5°	767.4	752.6	740.2	728.3	713.5	705.1	692.5	684.9	684.1	684.2	674.7
15°	740.7	726.1	707.0	690.2	682.1	666.0	659.0	650.2	644.7	639.2	634.8
17.5°	710.4	692.1	677.2	657.8	642.4	629.6	620.4	615.1	606.9	599.1	593.4
20°	691.3	671.8	656.1	635.6	618.7	602.9	595.2	587.9	581.6	575.0	568.8
22.5°	671.9	651.6	632.4	612.4	596.6	580.0	572.6	562.6	556.7	553.0	546.8
25°	641.4	619.4	597.4	578.3	562.2	547.5	537.6	529.9	523.3	520.4	516.3
27.5°	608.2	586.4	565.1	543.5	525.2	514.5	506.6	500.8	497.0	493.1	491.3
30°	587.1	564.4	541.7	521.5	504.6	494.0	486.6	482.6	479.7	477.9	476.0
32.5°	565.7	543.3	519.3	501.0	485.9	476.4	470.8	466.7	465.3	464.7	464.0
35°	531.4	508.7	486.6	470.1	455.8	452.1	447.4	445.2	444.5	447.0	448.2
37.5°	498.1	477.0	456.8	440.8	431.4	426.0	424.4	424.5	427.2	429.4	432.1
40°	476.7	456.2	437.2	423.2	414.4	411.1	410.4	412.2	415.1	417.7	420.7
42.5°	455.9	435.6	418.4	405.3	399.2	396.2	396.6	398.4	402.6	405.7	410.1
45°	423.6	406.7	389.8	379.2	374.1	374.8	374.8	378.1	382.1	386.9	391.6
47.5°	393.1	376.1	362.2	353.3	350.6	350.0	352.0	356.4	362.2	368.1	374.8
50°	372.6	356.5	344.3	336.3	333.4	334.4	337.4	341.4	348.4	355.7	362.7
52.5°	351.8	337.1	325.8	318.4	316.3	318.3	321.2	327.6	333.8	341.7	350.1
55°	319.4	307.0	298.1	292.7	291.9	293.0	296.3	303.3	312.1	322.0	330.1
57.5°	287.2	276.8	268.7	264.9	265.3	266.4	271.7	280.0	289.5	300.0	310.4
60°	265.5	256.0	249.4	246.5	246.9	249.0	255.6	263.3	275.0	285.3	296.3
62.5°	245.0	236.6	230.3	227.6	227.2	232.0	238.3	246.3	258.1	269.5	281.3
65°	212.0	205.4	200.2	198.8	199.8	203.5	211.6	222.3	232.1	244.2	256.7
67.5°	179.6	174.3	170.8	171.4	172.8	178.1	184.9	194.1	205.3	217.8	230.2
70°	159.2	154.0	151.1	151.5	153.6	160.2	166.2	175.3	187.4	200.2	210.5
72.5°	138.1	134.7	132.1	133.6	135.7	140.3	147.6	156.8	167.5	179.4	190.3
75°	105.9	105.9	104.5	105.7	109.0	113.3	118.9	128.4	139.0	148.5	157.3
77.5°	78.6	77.9	78.8	80.1	82.0	87.2	93.5	100.4	108.3	117.9	125.2
80°	60.1	60.5	62.3	64.6	65.3	69.3	75.9	82.2	88.4	96.4	103.4
82.5°	45.1	45.5	46.5	49.3	50.0	54.4	58.6	64.8	70.5	75.9	81.7
85°	24.6	24.6	26.4	27.5	29.3	32.2	34.9	38.5	43.6	47.3	52.8
87.5°	13.0	13.7	15.3	16.4	17.8	19.8	20.7	24.3	25.9	27.7	30.6
90°	18.2	21.2	23.7	26.2	28.7	31.3	33.2	35.1	36.9	38.8	40.2
92.5°	46.4	49.2	51.0	52.8	54.5	56.3	57.4	58.5	59.7	60.8	61.5
95°	96.6	99.2	101.4	103.6	105.8	108.0	109.0	109.9	110.8	111.8	112.3
97.5°	158.1	160.5	163.1	165.6	168.2	170.8	171.9	173.1	174.3	175.4	176.0
100°	204.1	206.0	209.0	211.8	214.6	217.4	218.1	218.7	219.3	220.0	220.3
102.5°	253.3	254.9	257.4	260.0	262.6	265.2	266.1	266.9	267.9	268.7	269.3
105°	332.4	333.2	334.4	335.7	337.0	338.3	339.2	340.2	341.1	342.0	343.0
107.5°	416.5	416.8	417.0	417.2	417.4	417.5	418.4	419.3	420.2	421.1	421.5
110°	474.4	474.6	474.2	473.9	473.5	473.3	472.6	472.0	471.4	470.7	470.9



TEST NUMBER: P332770-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	531.5	531.2	530.7	530.1	529.5	529.0	528.9	528.7	528.6	528.5	528.5
115°	619.6	619.3	618.7	618.0	617.5	616.8	616.5	616.1	615.9	615.6	615.2
117.5°	704.3	704.2	703.7	703.2	702.8	702.4	701.3	700.2	699.2	698.0	697.2
120°	763.9	764.1	763.2	762.2	761.3	760.3	758.7	757.1	755.6	754.0	753.6
122.5°	818.9	819.0	818.5	818.0	817.7	817.2	816.1	815.0	814.0	812.9	811.8
125°	902.5	902.3	902.0	901.6	901.4	901.1	900.4	899.8	899.2	898.5	897.9
127.5°	983.8	984.1	983.5	983.1	982.6	982.0	981.4	980.8	980.1	979.5	978.9
130°	1038.4	1038.9	1038.9	1038.9	1038.9	1038.9	1038.3	1037.6	1037.0	1036.3	1035.4
132.5°	1093.2	1093.3	1093.1	1092.9	1092.6	1092.3	1091.7	1091.1	1090.4	1089.8	1089.2
135°	1171.6	1172.5	1172.5	1172.5	1172.5	1172.5	1171.9	1171.2	1170.6	1170.0	1169.1
137.5°	1247.6	1248.4	1248.9	1249.3	1249.9	1250.4	1249.5	1248.8	1247.9	1247.1	1246.8
140°	1300.0	1300.4	1300.4	1300.4	1300.4	1300.4	1300.0	1299.8	1299.5	1299.1	1298.8
142.5°	1349.0	1349.2	1348.9	1348.7	1348.4	1348.1	1348.1	1348.0	1347.9	1347.9	1347.8
145°	1419.2	1419.9	1420.2	1420.6	1420.9	1421.2	1420.9	1420.6	1420.2	1419.9	1419.3
147.5°	1487.2	1487.9	1487.6	1487.3	1487.1	1486.9	1486.6	1486.4	1486.1	1485.8	1485.5
150°	1527.2	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.7
152.5°	1563.8	1564.3	1564.5	1564.8	1565.1	1565.3	1566.0	1566.8	1567.5	1568.3	1568.3
155°	1620.1	1620.0	1619.7	1619.4	1619.1	1618.7	1620.0	1621.3	1622.5	1623.8	1623.8
157.5°	1667.9	1667.6	1667.5	1667.5	1667.5	1667.4	1668.3	1669.2	1670.2	1671.1	1671.0
160°	1698.5	1698.2	1697.9	1697.5	1697.2	1697.0	1697.9	1698.8	1699.8	1700.7	1700.3
162.5°	1723.7	1723.2	1722.9	1722.6	1722.2	1721.9	1723.6	1725.3	1727.0	1728.7	1728.8
165°	1759.9	1759.2	1758.5	1757.8	1757.3	1756.6	1758.5	1760.4	1762.3	1764.2	1764.5
167.5°	1786.6	1785.9	1786.0	1786.0	1786.1	1786.2	1788.1	1790.0	1791.9	1793.8	1793.8
170°	1801.5	1800.8	1801.1	1801.5	1801.8	1802.0	1803.9	1805.9	1807.8	1809.7	1809.5
172.5°	1813.8	1813.2	1813.3	1813.4	1813.4	1813.5	1815.6	1817.8	1819.9	1822.0	1822.0
175°	1828.4	1827.5	1827.2	1826.8	1826.6	1826.3	1828.4	1830.7	1832.9	1835.1	1835.1
177.5°	1834.8	1834.2	1834.2	1834.2	1834.2	1834.2	1836.0	1837.8	1839.5	1841.3	1841.2
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



TEST NUMBER: P332770-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	843.6	843.0	840.9	840.7	840.9	843.0	843.6	844.2	845.1	848.0	844.5
5°	779.3	777.5	776.4	780.4	776.4	777.5	779.3	781.5	785.1	785.5	789.2
7.5°	730.8	729.3	726.1	725.1	726.1	729.3	730.8	732.2	735.8	739.0	744.4
10°	699.7	698.2	695.3	694.6	695.3	698.2	699.7	703.4	707.0	711.1	714.7
12.5°	669.8	666.8	666.3	667.0	666.3	666.8	669.8	674.7	684.2	684.1	684.9
15°	630.0	628.6	624.5	625.7	624.5	628.6	630.0	634.8	639.2	644.7	650.2
17.5°	590.9	589.1	584.2	588.5	584.2	589.1	590.9	593.4	599.1	606.9	615.1
20°	566.2	563.3	560.7	560.3	560.7	563.3	566.2	568.8	575.0	581.6	587.9
22.5°	542.7	540.1	539.9	537.4	539.9	540.1	542.7	546.8	553.0	556.7	562.6
25°	513.4	510.9	510.1	508.3	510.1	510.9	513.4	516.3	520.4	523.3	529.9
27.5°	490.9	489.7	488.3	488.9	488.3	489.7	490.9	491.3	493.1	497.0	500.8
30°	477.1	476.7	476.0	476.0	476.0	476.7	477.1	476.0	477.9	479.7	482.6
32.5°	465.7	465.6	466.0	466.0	466.0	465.6	465.7	464.0	464.7	465.3	466.7
35°	449.6	450.7	451.5	450.3	451.5	450.7	449.6	448.2	447.0	444.5	445.2
37.5°	435.1	436.2	437.2	438.5	437.2	436.2	435.1	432.1	429.4	427.2	424.5
40°	424.0	426.5	427.3	429.0	427.3	426.5	424.0	420.7	417.7	415.1	412.2
42.5°	413.4	416.2	418.1	418.5	418.1	416.2	413.4	410.1	405.7	402.6	398.4
45°	397.2	400.1	402.7	402.7	402.7	400.1	397.2	391.6	386.9	382.1	378.1
47.5°	380.4	384.7	387.2	387.9	387.2	384.7	380.4	374.8	368.1	362.2	356.4
50°	368.9	374.1	376.6	378.4	376.6	374.1	368.9	362.7	355.7	348.4	341.4
52.5°	357.8	362.9	366.4	367.3	366.4	362.9	357.8	350.1	341.7	333.8	327.6
55°	338.5	345.8	349.9	351.3	349.9	345.8	338.5	330.1	322.0	312.1	303.3
57.5°	320.3	327.1	331.8	332.8	331.8	327.1	320.3	310.4	300.0	289.5	280.0
60°	306.2	313.6	319.4	320.6	319.4	313.6	306.2	296.3	285.3	275.0	263.3
62.5°	291.8	299.4	304.7	307.6	304.7	299.4	291.8	281.3	269.5	258.1	246.3
65°	267.0	274.7	279.8	280.9	279.8	274.7	267.0	256.7	244.2	232.1	222.3
67.5°	239.9	247.5	250.9	253.1	250.9	247.5	239.9	230.2	217.8	205.3	194.1
70°	220.7	227.0	230.6	232.5	230.6	227.0	220.7	210.5	200.2	187.4	175.3
72.5°	199.1	205.6	209.8	210.2	209.8	205.6	199.1	190.3	179.4	167.5	156.8
75°	165.8	171.6	173.8	173.8	173.8	171.6	165.8	157.3	148.5	139.0	128.4
77.5°	131.2	134.2	137.0	137.6	137.0	134.2	131.2	125.2	117.9	108.3	100.4
80°	109.0	110.7	112.9	112.9	112.9	110.7	109.0	103.4	96.4	88.4	82.2
82.5°	86.1	87.6	89.7	89.4	89.7	87.6	86.1	81.7	75.9	70.5	64.8
85°	52.0	55.4	55.0	54.3	55.0	55.4	52.0	52.8	47.3	43.6	38.5
87.5°	31.6	32.0	33.1	33.7	33.1	32.0	31.6	30.6	27.7	25.9	24.3
90°	40.7	41.4	42.0	42.6	42.0	41.4	40.7	40.2	38.8	36.9	35.1
92.5°	61.9	62.3	62.7	63.1	62.7	62.3	61.9	61.5	60.8	59.7	58.5
95°	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	111.8	110.8	109.9
97.5°	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	175.4	174.3	173.1
100°	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.0	219.3	218.7
102.5°	269.6	269.8	270.0	270.3	270.0	269.8	269.6	269.3	268.7	267.9	266.9
105°	343.9	344.9	345.8	346.8	345.8	344.9	343.9	343.0	342.0	341.1	340.2
107.5°	421.4	421.4	421.3	421.2	421.3	421.4	421.4	421.5	421.1	420.2	419.3
110°	471.8	472.8	473.7	474.7	473.7	472.8	471.8	470.9	470.7	471.4	472.0



TEST NUMBER: P332770-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	528.7	528.9	529.0	529.2	529.0	528.9	528.7	528.5	528.5	528.6	528.7
115°	614.9	614.6	614.3	614.0	614.3	614.6	614.9	615.2	615.6	615.9	616.1
117.5°	696.5	696.0	695.3	694.7	695.3	696.0	696.5	697.2	698.0	699.2	700.2
120°	754.2	754.8	755.4	756.1	755.4	754.8	754.2	753.6	754.0	755.6	757.1
122.5°	810.7	809.5	808.4	807.3	808.4	809.5	810.7	811.8	812.9	814.0	815.0
125°	897.2	896.6	896.0	895.3	896.0	896.6	897.2	897.9	898.5	899.2	899.8
127.5°	978.5	978.0	977.4	976.9	977.4	978.0	978.5	978.9	979.5	980.1	980.8
130°	1034.2	1032.9	1031.6	1030.4	1031.6	1032.9	1034.2	1035.4	1036.3	1037.0	1037.6
132.5°	1088.7	1088.3	1087.7	1087.2	1087.7	1088.3	1088.7	1089.2	1089.8	1090.4	1091.1
135°	1168.2	1167.2	1166.3	1165.4	1166.3	1167.2	1168.2	1169.1	1170.0	1170.6	1171.2
137.5°	1247.0	1247.2	1247.4	1247.5	1247.4	1247.2	1247.0	1246.8	1247.1	1247.9	1248.8
140°	1298.5	1298.2	1297.9	1297.6	1297.9	1298.2	1298.5	1298.8	1299.1	1299.5	1299.8
142.5°	1347.7	1347.7	1347.6	1347.6	1347.6	1347.7	1347.7	1347.8	1347.9	1347.9	1348.0
145°	1418.3	1417.4	1416.5	1415.5	1416.5	1417.4	1418.3	1419.3	1419.9	1420.2	1420.6
147.5°	1485.3	1485.0	1484.6	1484.3	1484.6	1485.0	1485.3	1485.5	1485.8	1486.1	1486.4
150°	1527.3	1527.0	1526.7	1526.4	1526.7	1527.0	1527.3	1527.7	1527.8	1527.8	1527.8
152.5°	1567.4	1566.7	1565.8	1565.0	1565.8	1566.7	1567.4	1568.3	1568.3	1567.5	1566.8
155°	1622.5	1621.3	1620.0	1618.7	1620.0	1621.3	1622.5	1623.8	1623.8	1622.5	1621.3
157.5°	1670.0	1669.0	1667.8	1666.8	1667.8	1669.0	1670.0	1671.0	1671.1	1670.2	1669.2
160°	1698.8	1697.2	1695.6	1694.0	1695.6	1697.2	1698.8	1700.3	1700.7	1699.8	1698.8
162.5°	1727.2	1725.7	1724.1	1722.5	1724.1	1725.7	1727.2	1728.8	1728.7	1727.0	1725.3
165°	1763.2	1762.0	1760.7	1759.4	1760.7	1762.0	1763.2	1764.5	1764.2	1762.3	1760.4
167.5°	1791.8	1789.8	1787.8	1785.8	1787.8	1789.8	1791.8	1793.8	1793.8	1791.9	1790.0
170°	1807.3	1805.1	1802.9	1800.6	1802.9	1805.1	1807.3	1809.5	1809.7	1807.8	1805.9
172.5°	1819.8	1817.6	1815.3	1813.2	1815.3	1817.6	1819.8	1822.0	1822.0	1819.9	1817.8
175°	1832.9	1830.7	1828.4	1826.3	1828.4	1830.7	1832.9	1835.1	1835.1	1832.9	1830.7
177.5°	1839.1	1837.1	1835.1	1833.1	1835.1	1837.1	1839.1	1841.2	1841.3	1839.5	1837.8
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	846.2	847.4	852.2	856.5	861.8	865.6	868.3	871.2	877.3	882.3	887.0
5°	792.9	794.7	804.3	810.9	822.2	832.1	839.8	848.2	858.2	871.7	884.2
7.5°	745.8	752.7	763.1	773.8	785.4	798.3	809.6	822.4	839.4	858.1	877.3
10°	719.2	726.9	737.8	750.4	761.3	776.4	790.3	805.3	824.7	847.5	870.2
12.5°	692.5	705.1	713.5	728.3	740.2	752.6	767.4	787.1	809.8	833.7	861.1
15°	659.0	666.0	682.1	690.2	707.0	726.1	740.7	760.6	782.6	814.2	844.9
17.5°	620.4	629.6	642.4	657.8	677.2	692.1	710.4	730.8	758.5	789.8	828.4
20°	595.2	602.9	618.7	635.6	656.1	671.8	691.3	711.1	739.7	773.1	813.4
22.5°	572.6	580.0	596.6	612.4	632.4	651.6	671.9	694.9	722.4	757.5	798.7
25°	537.6	547.5	562.2	578.3	597.4	619.4	641.4	661.9	691.3	728.3	772.3
27.5°	506.6	514.5	525.2	543.5	565.1	586.4	608.2	634.0	662.2	701.4	747.1
30°	486.6	494.0	504.6	521.5	541.7	564.4	587.1	612.1	641.4	680.2	726.9
32.5°	470.8	476.4	485.9	501.0	519.3	543.3	565.7	591.5	622.4	660.6	706.1
35°	447.4	452.1	455.8	470.1	486.6	508.7	531.4	558.9	588.6	624.9	670.3
37.5°	424.4	426.0	431.4	440.8	456.8	477.0	498.1	525.2	555.6	592.6	633.6
40°	410.4	411.1	414.4	423.2	437.2	456.2	476.7	503.5	532.4	567.3	608.0
42.5°	396.6	396.2	399.2	405.3	418.4	435.6	455.9	480.3	509.3	541.5	579.9
45°	374.8	374.8	374.1	379.2	389.8	406.7	423.6	447.0	471.3	502.8	535.1
47.5°	352.0	350.0	350.6	353.3	362.2	376.1	393.1	412.4	433.7	460.4	488.7
50°	337.4	334.4	333.4	336.3	344.3	356.5	372.6	389.5	409.6	433.1	457.3
52.5°	321.2	318.3	316.3	318.4	325.8	337.1	351.8	366.6	384.7	403.8	424.7
55°	296.3	293.0	291.9	292.7	298.1	307.0	319.4	333.0	346.6	362.3	377.0
57.5°	271.7	266.4	265.3	264.9	268.7	276.8	287.2	299.0	308.9	318.4	334.0
60°	255.6	249.0	246.9	246.5	249.4	256.0	265.5	277.2	284.2	290.8	304.3
62.5°	238.3	232.0	227.2	227.6	230.3	236.6	245.0	253.4	258.1	265.3	274.5
65°	211.6	203.5	199.8	198.8	200.2	205.4	212.0	217.4	222.6	225.6	234.3
67.5°	184.9	178.1	172.8	171.4	170.8	174.3	179.6	183.0	186.6	189.3	194.4
70°	166.2	160.2	153.6	151.5	151.1	154.0	159.2	159.6	164.7	165.8	171.3
72.5°	147.6	140.3	135.7	133.6	132.1	134.7	138.1	139.0	141.8	143.7	146.7
75°	118.9	113.3	109.0	105.7	104.5	105.9	105.9	107.8	109.6	110.7	114.0
77.5°	93.5	87.2	82.0	80.1	78.8	77.9	78.6	79.7	78.9	80.8	81.5
80°	75.9	69.3	65.3	64.6	62.3	60.5	60.1	61.3	59.8	60.5	62.7
82.5°	58.6	54.4	50.0	49.3	46.5	45.5	45.1	44.5	44.5	44.4	44.8
85°	34.9	32.2	29.3	27.5	26.4	24.6	24.6	23.8	23.1	22.3	22.7
87.5°	20.7	19.8	17.8	16.4	15.3	13.7	13.0	11.4	10.5	9.4	8.5
90°	33.2	31.3	28.7	26.2	23.7	21.2	18.2	14.7	11.2	7.7	4.2
92.5°	57.4	56.3	54.5	52.8	51.0	49.2	46.4	42.3	38.4	34.4	30.4
95°	109.0	108.0	105.8	103.6	101.4	99.2	96.6	93.8	91.0	88.1	85.3
97.5°	171.9	170.8	168.2	165.6	163.1	160.5	158.1	155.8	153.4	151.2	148.9
100°	218.1	217.4	214.6	211.8	209.0	206.0	204.1	202.7	201.5	200.2	199.0
102.5°	266.1	265.2	262.6	260.0	257.4	254.9	253.3	252.8	252.3	251.8	251.3
105°	339.2	338.3	337.0	335.7	334.4	333.2	332.4	332.1	331.8	331.5	331.1
107.5°	418.4	417.5	417.4	417.2	417.0	416.8	416.5	416.1	415.8	415.4	415.0
110°	472.6	473.3	473.5	473.9	474.2	474.6	474.4	473.7	473.1	472.5	471.8



TEST NUMBER: P332770-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	528.9	529.0	529.5	530.1	530.7	531.2	531.5	531.3	531.2	531.1	530.9
115°	616.5	616.8	617.5	618.0	618.7	619.3	619.6	619.6	619.6	619.6	619.6
117.5°	701.3	702.4	702.8	703.2	703.7	704.2	704.3	704.0	703.7	703.4	703.2
120°	758.7	760.3	761.3	762.2	763.2	764.1	763.9	762.7	761.5	760.2	758.9
122.5°	816.1	817.2	817.7	818.0	818.5	819.0	818.9	818.4	817.9	817.4	816.9
125°	900.4	901.1	901.4	901.6	902.0	902.3	902.5	902.5	902.5	902.5	902.5
127.5°	981.4	982.0	982.6	983.1	983.5	984.1	983.8	982.9	981.9	981.0	980.1
130°	1038.3	1038.9	1038.9	1038.9	1038.9	1038.9	1038.4	1037.5	1036.5	1035.6	1034.6
132.5°	1091.7	1092.3	1092.6	1092.9	1093.1	1093.3	1093.2	1092.4	1091.7	1091.1	1090.3
135°	1171.9	1172.5	1172.5	1172.5	1172.5	1172.5	1171.6	1169.7	1167.7	1165.8	1163.9
137.5°	1249.5	1250.4	1249.9	1249.3	1248.9	1248.4	1247.6	1246.8	1245.9	1245.0	1244.2
140°	1300.0	1300.4	1300.4	1300.4	1300.4	1300.4	1300.0	1299.5	1298.8	1298.2	1297.6
142.5°	1348.1	1348.1	1348.4	1348.7	1348.9	1349.2	1349.0	1348.3	1347.7	1347.1	1346.4
145°	1420.9	1421.2	1420.9	1420.6	1420.2	1419.9	1419.2	1417.9	1416.6	1415.3	1414.1
147.5°	1486.6	1486.9	1487.1	1487.3	1487.6	1487.9	1487.2	1485.7	1484.2	1482.7	1481.2
150°	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.2	1525.9	1524.7	1523.3	1522.1
152.5°	1566.0	1565.3	1565.1	1564.8	1564.5	1564.3	1563.8	1563.0	1562.3	1561.5	1560.8
155°	1620.0	1618.7	1619.1	1619.4	1619.7	1620.0	1620.1	1620.1	1620.1	1620.1	1620.1
157.5°	1668.3	1667.4	1667.5	1667.5	1667.5	1667.6	1667.9	1668.5	1669.1	1669.6	1670.2
160°	1697.9	1697.0	1697.2	1697.5	1697.9	1698.2	1698.5	1698.8	1699.1	1699.4	1699.8
162.5°	1723.6	1721.9	1722.2	1722.6	1722.9	1723.2	1723.7	1724.6	1725.4	1726.3	1727.0
165°	1758.5	1756.6	1757.3	1757.8	1758.5	1759.2	1759.9	1760.9	1761.8	1762.7	1763.7
167.5°	1788.1	1786.2	1786.1	1786.0	1786.0	1785.9	1786.6	1787.9	1789.2	1790.5	1791.9
170°	1803.9	1802.0	1801.8	1801.5	1801.1	1800.8	1801.5	1803.0	1804.6	1806.2	1807.8
172.5°	1815.6	1813.5	1813.4	1813.4	1813.3	1813.2	1813.8	1815.1	1816.5	1817.8	1819.1
175°	1828.4	1826.3	1826.6	1826.8	1827.2	1827.5	1828.4	1830.0	1831.6	1833.2	1834.8
177.5°	1836.0	1834.2	1834.2	1834.2	1834.2	1834.2	1834.8	1836.1	1837.4	1838.6	1839.8
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



TEST NUMBER: P332770-830

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	891.2	894.1	897.9	904.4	906.7	909.6	913.7	913.4	914.6	919.0	928.4
5°	894.5	905.8	916.8	930.0	944.0	953.1	965.6	973.3	981.0	990.9	1007.8
7.5°	895.8	913.8	934.0	957.2	977.8	1001.5	1020.1	1037.6	1053.3	1074.2	1094.3
10°	893.7	917.9	944.0	973.3	1004.5	1030.9	1054.7	1081.9	1104.9	1130.2	1153.0
12.5°	889.9	919.1	953.9	986.7	1023.2	1062.2	1091.9	1119.4	1150.1	1179.2	1214.3
15°	881.3	921.2	962.0	1005.2	1054.0	1099.1	1142.0	1177.5	1210.6	1254.2	1300.0
17.5°	870.2	913.3	964.7	1017.1	1068.1	1119.6	1172.7	1226.2	1267.8	1322.0	1357.9
20°	860.0	909.8	962.6	1025.0	1076.0	1140.2	1193.0	1244.6	1301.8	1355.8	1398.7
22.5°	845.6	900.1	956.2	1018.2	1085.3	1149.5	1210.6	1266.7	1323.9	1382.5	1434.5
25°	827.4	876.8	943.2	1013.6	1080.3	1150.1	1220.1	1290.5	1352.1	1414.1	1462.5
27.5°	796.3	858.8	920.6	993.3	1067.4	1146.2	1221.2	1294.9	1359.3	1410.3	1440.4
30°	780.4	834.6	901.8	974.8	1055.1	1139.8	1217.9	1290.2	1350.3	1391.0	1403.1
32.5°	757.0	812.9	878.6	954.2	1039.2	1126.2	1207.6	1275.7	1326.0	1347.3	1332.7
35°	722.1	772.7	839.1	916.4	1004.8	1097.6	1177.9	1235.5	1261.2	1241.0	1190.7
37.5°	680.2	730.5	797.1	873.1	964.6	1058.9	1131.5	1172.9	1164.4	1114.3	1039.3
40°	650.9	697.9	761.3	843.5	932.6	1027.2	1091.0	1113.4	1090.0	1018.0	938.5
42.5°	618.4	664.1	727.8	807.1	901.4	988.7	1044.3	1046.2	1006.9	921.0	841.0
45°	568.8	612.5	672.6	755.1	842.4	924.5	961.2	943.2	870.6	787.7	707.4
47.5°	519.9	557.7	617.0	695.3	778.2	847.3	865.5	833.2	755.8	675.3	600.9
50°	484.1	522.3	578.0	652.8	732.7	792.5	801.3	758.4	682.5	601.4	543.1
52.5°	449.8	487.6	541.3	610.5	683.7	737.6	737.9	688.2	612.7	540.5	486.2
55°	399.4	433.5	481.9	543.8	609.2	651.3	641.0	589.7	524.1	461.4	414.1
57.5°	350.8	380.5	425.1	476.8	534.3	569.1	552.0	502.7	444.0	390.9	355.0
60°	319.4	347.6	385.8	434.6	483.0	510.1	494.0	449.2	395.3	352.4	321.2
62.5°	288.9	312.7	349.4	391.7	436.6	456.8	442.3	398.2	351.7	312.8	287.5
65°	245.7	265.1	294.5	330.8	363.4	380.7	368.5	327.4	291.9	264.0	243.8
67.5°	205.4	220.6	242.8	271.9	299.6	309.0	297.9	269.3	239.2	216.9	202.6
70°	177.5	191.8	210.5	232.9	257.0	267.0	256.0	233.3	208.7	188.1	174.2
72.5°	153.2	164.2	180.0	199.2	218.0	228.0	220.5	198.6	177.9	162.6	150.7
75°	116.6	126.1	137.1	150.7	165.4	172.0	165.4	150.3	136.0	124.7	116.2
77.5°	84.8	89.9	98.4	108.6	117.7	122.8	117.1	106.9	98.1	90.4	86.1
80°	64.6	68.2	74.1	82.2	88.4	93.1	89.4	81.1	74.1	68.9	67.1
82.5°	46.9	49.4	53.3	59.3	63.4	65.9	64.3	58.2	55.3	50.7	48.9
85°	23.1	24.6	27.1	28.9	32.6	33.0	33.4	30.8	28.3	27.1	25.6
87.5°	9.4	10.5	12.1	13.6	15.4	16.2	16.4	16.9	16.2	16.3	15.6
90°	7.7	11.2	14.7	18.2	21.2	23.7	26.2	28.7	31.3	33.2	35.1
92.5°	34.4	38.4	42.3	46.4	49.2	51.0	52.8	54.5	56.3	57.4	58.5
95°	88.1	91.0	93.8	96.6	99.2	101.4	103.6	105.8	108.0	109.0	109.9
97.5°	151.2	153.4	155.8	158.1	160.5	163.1	165.6	168.2	170.8	171.9	173.1
100°	200.2	201.5	202.7	204.1	206.0	209.0	211.8	214.6	217.4	218.1	218.7
102.5°	251.8	252.3	252.8	253.3	254.9	257.4	260.0	262.6	265.2	266.1	266.9
105°	331.5	331.8	332.1	332.4	333.2	334.4	335.7	337.0	338.3	339.2	340.2
107.5°	415.4	415.8	416.1	416.5	416.8	417.0	417.2	417.4	417.5	418.4	419.3
110°	472.5	473.1	473.7	474.4	474.6	474.2	473.9	473.5	473.3	472.6	472.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	531.1	531.2	531.3	531.5	531.2	530.7	530.1	529.5	529.0	528.9	528.7
115°	619.6	619.6	619.6	619.6	619.3	618.7	618.0	617.5	616.8	616.5	616.1
117.5°	703.4	703.7	704.0	704.3	704.2	703.7	703.2	702.8	702.4	701.3	700.2
120°	760.2	761.5	762.7	763.9	764.1	763.2	762.2	761.3	760.3	758.7	757.1
122.5°	817.4	817.9	818.4	818.9	819.0	818.5	818.0	817.7	817.2	816.1	815.0
125°	902.5	902.5	902.5	902.5	902.3	902.0	901.6	901.4	901.1	900.4	899.8
127.5°	981.0	981.9	982.9	983.8	984.1	983.5	983.1	982.6	982.0	981.4	980.8
130°	1035.6	1036.5	1037.5	1038.4	1038.9	1038.9	1038.9	1038.9	1038.9	1038.3	1037.6
132.5°	1091.1	1091.7	1092.4	1093.2	1093.3	1093.1	1092.9	1092.6	1092.3	1091.7	1091.1
135°	1165.8	1167.7	1169.7	1171.6	1172.5	1172.5	1172.5	1172.5	1172.5	1171.9	1171.2
137.5°	1245.0	1245.9	1246.8	1247.6	1248.4	1248.9	1249.3	1249.9	1250.4	1249.5	1248.8
140°	1298.2	1298.8	1299.5	1300.0	1300.4	1300.4	1300.4	1300.4	1300.4	1300.0	1299.8
142.5°	1347.1	1347.7	1348.3	1349.0	1349.2	1348.9	1348.7	1348.4	1348.1	1348.1	1348.0
145°	1415.3	1416.6	1417.9	1419.2	1419.9	1420.2	1420.6	1420.9	1421.2	1420.9	1420.6
147.5°	1482.7	1484.2	1485.7	1487.2	1487.9	1487.6	1487.3	1487.1	1486.9	1486.6	1486.4
150°	1523.3	1524.7	1525.9	1527.2	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8
152.5°	1561.5	1562.3	1563.0	1563.8	1564.3	1564.5	1564.8	1565.1	1565.3	1566.0	1566.8
155°	1620.1	1620.1	1620.1	1620.1	1620.0	1619.7	1619.4	1619.1	1618.7	1620.0	1621.3
157.5°	1669.6	1669.1	1668.5	1667.9	1667.6	1667.5	1667.5	1667.5	1667.4	1668.3	1669.2
160°	1699.4	1699.1	1698.8	1698.5	1698.2	1697.9	1697.5	1697.2	1697.0	1697.9	1698.8
162.5°	1726.3	1725.4	1724.6	1723.7	1723.2	1722.9	1722.6	1722.2	1721.9	1723.6	1725.3
165°	1762.7	1761.8	1760.9	1759.9	1759.2	1758.5	1757.8	1757.3	1756.6	1758.5	1760.4
167.5°	1790.5	1789.2	1787.9	1786.6	1785.9	1786.0	1786.0	1786.1	1786.2	1788.1	1790.0
170°	1806.2	1804.6	1803.0	1801.5	1800.8	1801.1	1801.5	1801.8	1802.0	1803.9	1805.9
172.5°	1817.8	1816.5	1815.1	1813.8	1813.2	1813.3	1813.4	1813.4	1813.5	1815.6	1817.8
175°	1833.2	1831.6	1830.0	1828.4	1827.5	1827.2	1826.8	1826.6	1826.3	1828.4	1830.7
177.5°	1838.6	1837.4	1836.1	1834.8	1834.2	1834.2	1834.2	1834.2	1834.2	1836.0	1837.8
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	933.1	933.7	936.3	938.4	939.0	941.9	942.2
5°	1015.1	1021.3	1033.4	1034.5	1036.3	1045.9	1038.6
7.5°	1111.2	1127.0	1137.6	1146.9	1150.3	1154.4	1153.6
10°	1172.8	1196.3	1208.0	1226.7	1227.5	1232.2	1229.3
12.5°	1234.7	1262.0	1283.4	1286.9	1302.5	1305.0	1309.1
15°	1322.4	1351.4	1381.1	1391.8	1413.3	1418.5	1426.5
17.5°	1404.9	1434.5	1455.3	1482.8	1491.7	1503.5	1495.5
20°	1450.0	1482.3	1508.7	1530.3	1539.5	1546.1	1545.4
22.5°	1477.3	1509.9	1531.3	1547.7	1556.2	1559.1	1558.9
25°	1494.4	1513.2	1519.8	1526.0	1516.5	1513.2	1514.6
27.5°	1446.9	1442.0	1424.8	1402.2	1378.8	1360.1	1350.0
30°	1381.5	1352.8	1326.8	1281.4	1257.8	1244.0	1231.4
32.5°	1288.7	1243.4	1193.4	1151.7	1124.9	1104.3	1101.2
35°	1129.9	1061.7	1000.4	949.4	923.0	900.7	895.5
37.5°	960.6	889.8	834.6	789.7	761.3	745.6	730.8
40°	848.2	787.4	733.1	694.9	673.4	661.9	652.8
42.5°	761.7	706.1	652.1	623.0	603.5	596.5	591.2
45°	642.2	590.4	553.0	531.0	519.6	507.9	502.4
47.5°	546.4	504.4	479.7	461.0	448.8	441.9	438.3
50°	492.1	457.7	435.6	421.4	410.4	404.8	401.9
52.5°	444.0	415.8	397.3	385.9	378.4	374.4	373.2
55°	382.5	360.9	349.1	339.2	333.8	330.1	328.6
57.5°	332.4	315.8	306.3	298.1	296.1	292.9	291.9
60°	299.6	286.8	278.7	273.2	271.4	267.7	268.4
62.5°	270.6	260.0	253.2	250.1	247.6	244.5	245.5
65°	228.8	221.1	217.4	214.5	211.6	209.8	211.2
67.5°	192.0	186.7	181.7	180.0	178.6	178.3	176.7
70°	168.0	163.5	159.2	158.1	158.1	156.6	156.2
72.5°	144.8	141.6	138.6	137.8	136.7	137.2	135.7
75°	111.9	109.2	108.2	107.1	106.7	106.7	105.7
77.5°	82.7	80.8	79.0	79.0	77.7	77.2	77.0
80°	62.7	62.0	60.5	60.5	59.8	60.1	59.4
82.5°	47.1	46.1	45.8	45.2	44.2	44.3	43.5
85°	25.3	24.2	23.8	22.7	22.0	22.7	22.0
87.5°	16.2	16.3	16.2	15.7	15.6	15.7	15.0
90°	36.9	38.8	40.2	40.7	41.4	42.0	42.6
92.5°	59.7	60.8	61.5	61.9	62.3	62.7	63.1
95°	110.8	111.8	112.3	112.3	112.3	112.3	112.3
97.5°	174.3	175.4	176.0	176.0	176.0	176.0	176.0
100°	219.3	220.0	220.3	220.3	220.3	220.3	220.3
102.5°	267.9	268.7	269.3	269.6	269.8	270.0	270.3
105°	341.1	342.0	343.0	343.9	344.9	345.8	346.8
107.5°	420.2	421.1	421.5	421.4	421.4	421.3	421.2
110°	471.4	470.7	470.9	471.8	472.8	473.7	474.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	528.6	528.5	528.5	528.7	528.9	529.0	529.2
115°	615.9	615.6	615.2	614.9	614.6	614.3	614.0
117.5°	699.2	698.0	697.2	696.5	696.0	695.3	694.7
120°	755.6	754.0	753.6	754.2	754.8	755.4	756.1
122.5°	814.0	812.9	811.8	810.7	809.5	808.4	807.3
125°	899.2	898.5	897.9	897.2	896.6	896.0	895.3
127.5°	980.1	979.5	978.9	978.5	978.0	977.4	976.9
130°	1037.0	1036.3	1035.4	1034.2	1032.9	1031.6	1030.4
132.5°	1090.4	1089.8	1089.2	1088.7	1088.3	1087.7	1087.2
135°	1170.6	1170.0	1169.1	1168.2	1167.2	1166.3	1165.4
137.5°	1247.9	1247.1	1246.8	1247.0	1247.2	1247.4	1247.5
140°	1299.5	1299.1	1298.8	1298.5	1298.2	1297.9	1297.6
142.5°	1347.9	1347.9	1347.8	1347.7	1347.7	1347.6	1347.6
145°	1420.2	1419.9	1419.3	1418.3	1417.4	1416.5	1415.5
147.5°	1486.1	1485.8	1485.5	1485.3	1485.0	1484.6	1484.3
150°	1527.8	1527.8	1527.7	1527.3	1527.0	1526.7	1526.4
152.5°	1567.5	1568.3	1568.3	1567.4	1566.7	1565.8	1565.0
155°	1622.5	1623.8	1623.8	1622.5	1621.3	1620.0	1618.7
157.5°	1670.2	1671.1	1671.0	1670.0	1669.0	1667.8	1666.8
160°	1699.8	1700.7	1700.3	1698.8	1697.2	1695.6	1694.0
162.5°	1727.0	1728.7	1728.8	1727.2	1725.7	1724.1	1722.5
165°	1762.3	1764.2	1764.5	1763.2	1762.0	1760.7	1759.4
167.5°	1791.9	1793.8	1793.8	1791.8	1789.8	1787.8	1785.8
170°	1807.8	1809.7	1809.5	1807.3	1805.1	1802.9	1800.6
172.5°	1819.9	1822.0	1822.0	1819.8	1817.6	1815.3	1813.2
175°	1832.9	1835.1	1835.1	1832.9	1830.7	1828.4	1826.3
177.5°	1839.5	1841.3	1841.2	1839.1	1837.1	1835.1	1833.1
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6

(END OF REPORT)