

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: P332653-935

Luminaire Tested: **SA4XXDIP-C1020D1035U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332653-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1020D1035U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

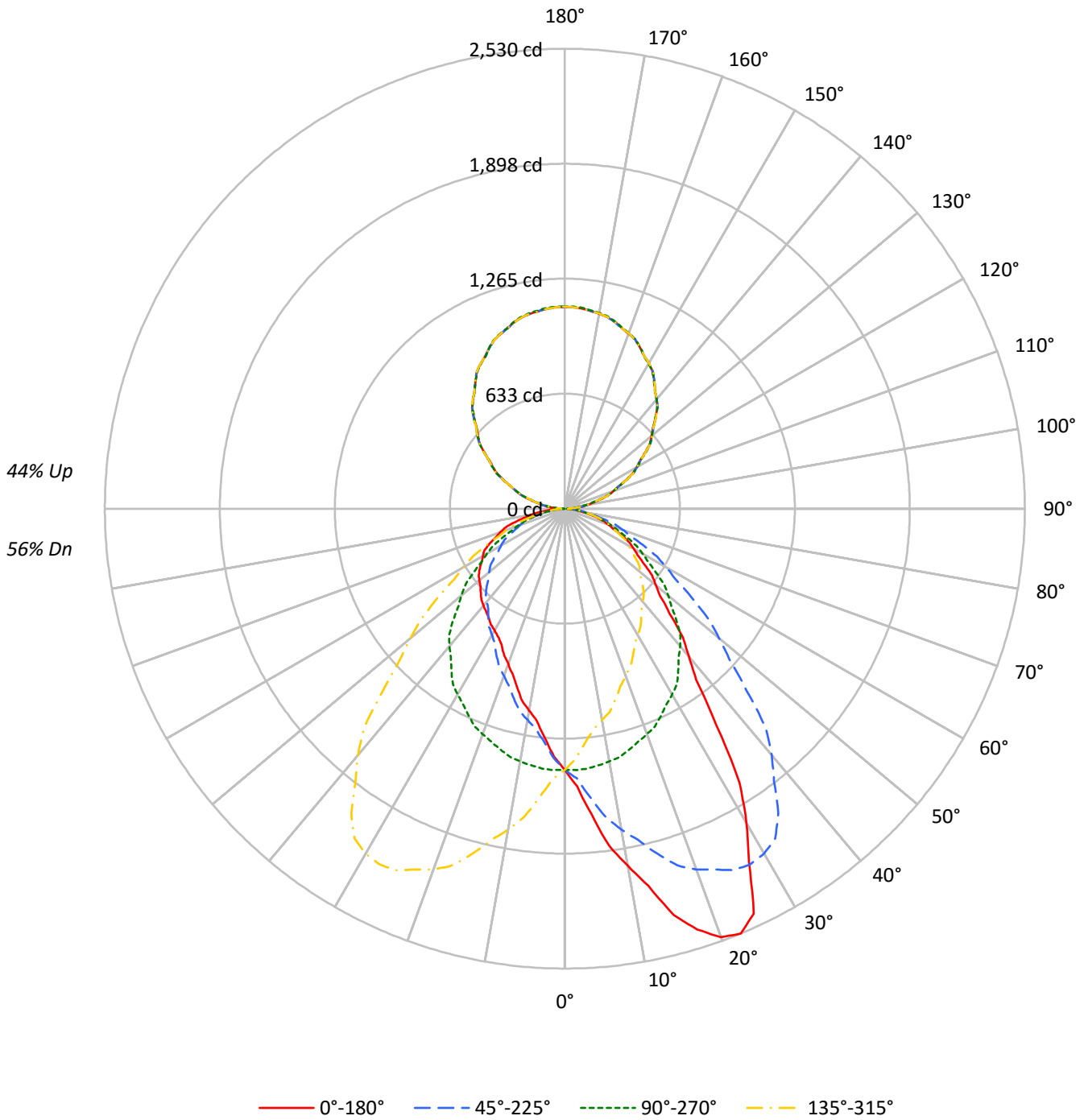
Lumens per Lamp: N/A
Luminaire Lumens: 7050.6 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.5
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	77	74	72	65	64	62	55	54	53	48
2	91	83	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	60	77	69	62	57	60	55	51	51	48	44	43	41	38	35
4	76	65	57	51	70	61	54	49	53	48	43	46	42	38	39	36	33	30
5	70	58	50	44	65	55	47	42	48	42	38	41	37	33	35	32	29	26
6	64	52	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	39	34	55	45	37	32	39	33	29	34	29	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11599	11599	11599	11599
5°	13661	11629	10264	11629
10°	16356	11579	9241	11579
15°	19351	11462	8487	11462
20°	21549	11342	7814	11342
25°	21896	11166	7349	11166
30°	18632	10997	7202	10997
35°	14325	10723	7203	10723
40°	11166	10400	7339	10400
45°	9310	9914	7462	9914
50°	8194	9323	7714	9323
55°	7506	8612	8025	8612
60°	7035	7976	8399	7976
65°	6550	7265	8709	7265
70°	5986	6559	8908	6559
75°	5346	5774	8799	5774
80°	4482	4733	8522	4733
85°	3307	3418	8160	3418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	2.0
10°-20°	431.5	6.1
20°-30°	684.2	9.7
30°-40°	761.4	10.8
40°-50°	693.1	9.8
50°-60°	566.4	8.0
60°-70°	404.3	5.7
70°-80°	222.6	3.2
80°-90°	64.1	0.9
90°-100°	73.3	1.0
100°-110°	217.1	3.1
110°-120°	368.5	5.2
120°-130°	485.9	6.9
130°-140°	545.7	7.7
140°-150°	536.2	7.6
150°-160°	451.0	6.4
160°-170°	300.1	4.3
170°-180°	105.1	1.5
0°-30°	1255.6	17.8
0°-40°	2017.1	28.6
0°-60°	3276.5	46.5
0°-90°	3967.6	56.3
90°-120°	658.9	9.3
90°-150°	2226.8	31.6
90°-180°	3083.0	43.7
0°-180°	7050.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1437	1437	1437	1437	1437	
5°	1686	1435	1267	1435	1686	171
15°	2315	1371	1016	1371	2315	654
25°	2458	1254	825	1254	2458	1084
35°	1454	1088	731	1088	1454	923
45°	816	868	654	868	816	642
55°	533	612	570	612	533	482
65°	343	380	456	380	343	339
75°	171	185	282	185	171	182
85°	36	37	88	37	36	44
90°	26	3	26	3	26	14
95°	68	52	68	52	68	71
105°	210	200	210	200	210	221
115°	371	375	371	375	371	367
125°	541	546	541	546	541	483
135°	705	704	705	704	705	544
145°	856	855	856	855	856	536
155°	979	980	979	980	979	451
165°	1064	1066	1064	1066	1064	300
175°	1104	1110	1104	1110	1104	105
180°	1111	1111	1111	1111	1111	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1529.2	1528.8	1524.0	1523.0	1519.7	1515.4	1514.5	1506.8	1491.6	1484.5	1482.6
5°	1685.7	1697.5	1682.0	1679.1	1677.3	1657.7	1647.5	1635.6	1608.3	1592.2	1579.7
7.5°	1872.3	1873.7	1867.0	1861.5	1846.3	1829.2	1803.5	1776.2	1743.5	1709.6	1683.9
10°	1995.2	1999.9	1992.2	1991.0	1960.7	1941.6	1903.5	1871.4	1834.4	1793.4	1755.9
12.5°	2124.7	2118.0	2114.1	2088.6	2083.0	2048.2	2004.0	1970.9	1914.0	1866.7	1816.8
15°	2315.4	2302.3	2294.0	2258.8	2241.6	2193.4	2146.3	2110.1	2035.7	1964.8	1911.2
17.5°	2427.2	2440.4	2421.1	2406.7	2362.1	2328.2	2280.2	2204.0	2145.8	2057.8	1990.2
20°	2508.3	2509.4	2498.7	2483.8	2448.7	2405.9	2353.5	2270.1	2200.5	2113.0	2020.2
22.5°	2530.1	2530.4	2525.8	2511.9	2485.4	2450.6	2397.8	2328.2	2243.9	2148.7	2055.9
25°	2458.2	2455.8	2461.3	2476.7	2466.6	2455.8	2425.5	2373.7	2295.2	2194.5	2094.6
27.5°	2191.1	2207.5	2237.7	2275.9	2312.6	2340.5	2348.4	2337.8	2289.1	2206.3	2101.6
30°	1998.7	2019.0	2041.6	2079.7	2153.4	2195.7	2242.2	2277.3	2257.6	2191.6	2094.0
32.5°	1787.3	1792.3	1825.9	1869.2	1936.8	2018.1	2091.7	2163.0	2186.7	2152.1	2070.6
35°	1453.5	1461.8	1498.1	1541.0	1623.8	1723.1	1833.8	1932.7	2014.2	2046.9	2005.3
37.5°	1186.1	1210.0	1235.7	1281.8	1354.6	1444.1	1559.1	1687.0	1808.5	1889.9	1903.8
40°	1059.5	1074.4	1092.8	1127.9	1189.8	1277.9	1376.7	1523.2	1652.3	1769.0	1807.1
42.5°	959.5	968.2	979.5	1011.2	1058.4	1146.0	1236.2	1365.0	1494.7	1634.2	1698.1
45°	815.5	824.4	843.4	861.9	897.6	958.3	1042.2	1148.1	1278.5	1413.1	1530.9
47.5°	711.4	717.1	728.4	748.2	778.5	818.6	886.8	975.3	1096.1	1226.8	1352.3
50°	652.4	657.1	666.1	683.9	707.1	742.8	798.7	881.5	976.1	1107.7	1230.9
52.5°	605.7	607.6	614.2	626.3	644.7	674.8	720.7	789.1	877.1	994.4	1117.1
55°	533.3	535.7	541.7	550.6	566.6	585.7	620.8	672.0	748.8	850.6	957.1
57.5°	473.8	475.4	480.4	483.9	497.1	512.6	539.6	576.2	634.4	720.7	815.8
60°	435.7	434.5	440.5	443.4	452.4	465.5	486.3	521.4	572.0	641.6	729.1
62.5°	398.6	396.9	401.9	405.8	411.0	422.1	439.1	466.7	507.7	570.7	646.3
65°	342.9	340.4	343.5	348.2	352.9	359.0	371.4	395.8	428.5	473.8	531.5
67.5°	286.9	289.4	289.9	292.2	295.0	303.1	311.7	328.9	352.0	388.2	437.1
70°	253.6	254.2	256.6	256.6	258.3	265.4	272.6	282.8	305.3	338.7	378.6
72.5°	220.2	222.7	221.8	223.7	225.0	229.7	235.0	244.6	263.9	288.7	322.4
75°	171.4	173.2	173.2	173.8	175.6	177.4	181.5	188.6	202.3	220.8	244.0
77.5°	125.0	125.3	126.1	128.2	128.2	131.0	134.1	139.9	146.6	159.3	173.4
80°	96.4	97.6	97.0	98.2	98.2	100.6	101.8	108.9	111.9	120.2	131.6
82.5°	70.7	71.9	71.8	73.4	74.4	74.9	76.5	79.4	82.4	89.7	94.4
85°	35.7	36.9	35.7	36.9	38.7	39.3	41.1	41.7	44.1	45.8	50.0
87.5°	15.7	17.0	16.9	17.3	18.2	18.5	18.8	18.1	19.7	20.0	21.6
90°	25.7	25.4	25.1	24.6	24.3	23.5	22.4	21.2	20.1	18.9	17.4
92.5°	38.1	38.0	37.7	37.5	37.3	36.8	36.1	35.4	34.7	34.0	33.0
95°	67.9	67.9	67.9	67.9	67.9	67.6	67.1	66.5	65.9	65.3	64.0
97.5°	106.4	106.4	106.4	106.4	106.4	106.1	105.4	104.7	104.0	103.3	101.8
100°	133.2	133.2	133.2	133.2	133.2	133.0	132.6	132.2	131.9	131.5	129.8
102.5°	163.4	163.3	163.2	163.0	162.8	162.5	162.0	161.4	160.9	160.4	158.8
105°	209.7	209.1	208.5	207.9	207.4	206.8	206.3	205.7	205.1	204.6	203.8
107.5°	254.7	254.8	254.8	254.9	254.9	254.6	254.1	253.6	253.0	252.5	252.4
110°	287.1	286.5	285.9	285.3	284.7	284.6	285.0	285.4	285.8	286.2	286.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	320.0	319.9	319.8	319.7	319.6	319.6	319.6	319.7	319.8	319.9	320.2
115°	371.3	371.4	371.6	371.9	372.0	372.2	372.4	372.6	372.8	373.0	373.3
117.5°	420.1	420.4	420.9	421.2	421.6	422.1	422.8	423.4	424.0	424.7	425.0
120°	457.2	456.8	456.4	456.1	455.6	456.0	456.9	457.9	458.8	459.8	460.4
122.5°	488.1	488.8	489.5	490.2	490.9	491.5	492.2	492.8	493.5	494.1	494.4
125°	541.4	541.8	542.2	542.6	542.9	543.3	543.7	544.1	544.5	544.8	545.0
127.5°	590.7	591.1	591.3	591.7	591.9	592.3	592.7	593.1	593.5	593.8	594.2
130°	623.0	623.8	624.6	625.3	626.1	626.7	627.1	627.5	627.8	628.2	628.2
132.5°	657.5	657.7	658.1	658.3	658.7	659.0	659.4	659.8	660.1	660.6	660.6
135°	704.7	705.2	705.8	706.5	707.0	707.5	707.8	708.3	708.6	709.0	709.0
137.5°	754.4	754.2	754.1	754.1	753.9	754.1	754.6	755.1	755.6	756.1	755.8
140°	784.6	784.8	785.0	785.2	785.4	785.6	785.7	786.0	786.2	786.4	786.4
142.5°	814.9	814.9	814.9	815.0	815.0	815.1	815.1	815.1	815.2	815.2	815.4
145°	855.9	856.5	857.1	857.6	858.2	858.6	858.8	859.0	859.2	859.4	859.2
147.5°	897.6	897.8	897.9	898.1	898.3	898.5	898.6	898.8	899.0	899.1	899.2
150°	923.0	923.2	923.3	923.6	923.8	923.9	923.9	923.9	923.9	923.9	923.9
152.5°	946.3	946.8	947.4	947.9	948.4	948.4	947.9	947.4	947.0	946.5	946.4
155°	978.9	979.6	980.4	981.1	981.9	981.9	981.1	980.4	979.6	978.9	979.0
157.5°	1007.9	1008.6	1009.2	1009.9	1010.5	1010.6	1010.0	1009.4	1008.8	1008.2	1008.3
160°	1024.4	1025.4	1026.3	1027.3	1028.2	1028.4	1027.9	1027.3	1026.7	1026.1	1026.3
162.5°	1041.6	1042.6	1043.5	1044.5	1045.4	1045.3	1044.3	1043.3	1042.2	1041.2	1041.5
165°	1063.9	1064.7	1065.5	1066.3	1067.0	1066.8	1065.7	1064.5	1063.3	1062.2	1062.6
167.5°	1080.0	1081.1	1082.3	1083.5	1084.7	1084.7	1083.6	1082.4	1081.2	1080.1	1080.0
170°	1088.8	1090.2	1091.5	1092.9	1094.2	1094.3	1093.1	1092.0	1090.9	1089.7	1089.5
172.5°	1096.4	1097.8	1099.1	1100.4	1101.7	1101.8	1100.4	1099.2	1097.9	1096.6	1096.6
175°	1104.3	1105.7	1107.0	1108.4	1109.7	1109.7	1108.4	1107.0	1105.7	1104.3	1104.5
177.5°	1108.5	1109.7	1110.9	1112.2	1113.4	1113.4	1112.3	1111.3	1110.2	1109.1	1109.1
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1483.1	1476.4	1471.6	1467.8	1457.3	1451.1	1446.4	1439.7	1432.1	1424.0	1414.0
5°	1567.2	1547.0	1532.1	1509.5	1488.1	1470.2	1451.7	1435.0	1414.8	1392.8	1376.7
7.5°	1655.6	1625.6	1587.0	1553.5	1515.9	1483.2	1453.9	1423.8	1392.7	1362.4	1334.7
10°	1711.8	1673.2	1630.3	1579.7	1532.1	1489.8	1450.5	1412.5	1375.5	1338.6	1307.1
12.5°	1772.3	1724.1	1660.8	1601.6	1548.3	1491.8	1444.3	1397.7	1353.1	1314.3	1277.6
15°	1853.5	1783.8	1710.6	1631.5	1561.3	1495.2	1430.3	1371.4	1321.4	1270.1	1234.5
17.5°	1903.4	1817.2	1733.5	1650.8	1565.7	1482.5	1412.5	1344.5	1281.9	1231.1	1186.0
20°	1936.2	1850.5	1746.4	1663.6	1562.5	1476.7	1395.8	1320.2	1254.7	1200.6	1154.1
22.5°	1964.8	1865.8	1761.6	1652.7	1552.0	1461.0	1372.4	1296.4	1229.5	1172.4	1127.9
25°	1980.3	1866.6	1753.5	1645.2	1530.9	1423.1	1342.8	1253.5	1182.1	1122.0	1074.4
27.5°	1981.9	1860.4	1732.4	1612.1	1494.1	1393.8	1292.4	1212.5	1138.4	1074.9	1029.2
30°	1976.7	1849.9	1712.4	1582.1	1463.6	1354.7	1266.6	1179.7	1104.1	1041.0	993.4
32.5°	1960.1	1828.0	1686.7	1548.8	1426.0	1319.5	1228.6	1145.9	1072.2	1010.0	960.1
35°	1911.9	1781.5	1630.9	1487.5	1361.8	1254.1	1172.0	1088.0	1014.3	955.3	907.1
37.5°	1836.5	1718.6	1565.6	1417.1	1293.7	1185.5	1104.1	1028.3	961.7	901.9	852.5
40°	1770.7	1667.2	1513.6	1369.0	1235.7	1132.7	1056.5	986.9	920.8	864.3	817.3
42.5°	1695.1	1604.8	1463.2	1309.9	1181.4	1078.0	1003.7	941.2	878.9	826.6	779.6
45°	1560.0	1500.6	1367.2	1225.5	1091.7	994.0	923.2	868.4	816.1	764.8	725.6
47.5°	1404.8	1375.3	1263.1	1128.5	1001.4	905.2	843.8	793.2	747.3	703.9	669.3
50°	1300.5	1286.2	1189.2	1059.5	938.1	847.6	785.7	742.3	702.9	664.9	632.1
52.5°	1197.7	1197.2	1109.7	990.9	878.6	791.4	730.0	689.4	655.3	624.4	595.0
55°	1040.4	1057.1	988.7	882.7	782.1	703.5	648.2	611.9	588.1	562.5	540.4
57.5°	896.0	923.7	867.2	773.9	690.0	617.6	569.4	542.1	516.8	501.3	485.3
60°	801.8	827.9	783.9	705.3	626.2	564.3	518.4	494.0	472.0	461.3	450.0
62.5°	718.0	741.3	708.7	635.8	567.1	507.6	468.9	445.5	430.6	418.9	411.4
65°	598.2	617.9	589.9	536.9	477.9	430.3	398.8	380.3	366.1	361.3	352.9
67.5°	483.5	501.4	486.3	441.3	394.0	358.0	333.3	315.6	307.1	303.0	297.0
70°	415.4	433.3	417.2	378.0	341.6	311.3	288.1	277.9	269.1	267.3	258.9
72.5°	357.8	370.0	354.0	323.2	292.1	266.6	248.6	238.0	233.3	230.1	225.6
75°	268.5	279.1	268.5	244.6	222.6	204.7	189.2	185.1	179.8	178.0	175.0
77.5°	190.0	199.2	191.1	176.2	159.7	145.9	137.6	132.2	131.0	127.9	129.4
80°	145.3	151.2	143.4	133.4	120.2	110.7	104.8	101.8	98.2	97.0	99.4
82.5°	104.3	106.9	103.0	96.2	86.4	80.2	76.2	72.8	72.0	72.2	72.2
85°	54.2	53.6	53.0	47.0	44.1	39.9	37.5	36.9	36.3	37.5	38.7
87.5°	21.3	21.4	20.7	18.4	16.5	14.7	13.8	12.9	13.8	14.7	15.6
90°	15.8	14.3	12.8	11.0	8.9	6.8	4.6	2.6	4.6	6.8	8.9
92.5°	31.9	30.8	29.8	28.0	25.6	23.2	20.8	18.4	20.8	23.2	25.6
95°	62.7	61.3	59.9	58.5	56.7	55.0	53.3	51.6	53.3	55.0	56.7
97.5°	100.1	98.6	97.0	95.6	94.2	92.8	91.4	90.1	91.4	92.8	94.2
100°	128.0	126.3	124.6	123.4	122.6	121.8	121.1	120.3	121.1	121.8	122.6
102.5°	157.2	155.7	154.1	153.2	152.8	152.6	152.2	152.0	152.2	152.6	152.8
105°	203.0	202.2	201.5	201.0	200.8	200.6	200.4	200.3	200.4	200.6	200.8
107.5°	252.3	252.2	252.0	251.8	251.7	251.4	251.2	251.0	251.2	251.4	251.7
110°	286.5	286.7	287.0	286.9	286.5	286.1	285.7	285.3	285.7	286.1	286.5



TEST NUMBER: P332653-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	320.6	320.9	321.2	321.4	321.3	321.2	321.2	321.1	321.2	321.2	321.3
115°	373.8	374.1	374.5	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7
117.5°	425.2	425.5	425.8	425.9	425.7	425.5	425.4	425.2	425.4	425.5	425.7
120°	460.9	461.5	462.1	462.0	461.2	460.5	459.7	458.9	459.7	460.5	461.2
122.5°	494.6	495.0	495.2	495.2	494.9	494.6	494.3	494.0	494.3	494.6	494.9
125°	545.3	545.4	545.6	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7
127.5°	594.4	594.8	595.0	595.0	594.3	593.7	593.2	592.6	593.2	593.7	594.3
130°	628.2	628.2	628.2	627.9	627.3	626.8	626.2	625.6	626.2	626.8	627.3
132.5°	660.8	661.0	661.2	661.0	660.6	660.1	659.8	659.4	659.8	660.1	660.6
135°	709.0	709.0	709.0	708.4	707.3	706.1	705.0	703.9	705.0	706.1	707.3
137.5°	755.5	755.2	754.8	754.5	753.9	753.4	752.9	752.3	752.9	753.4	753.9
140°	786.4	786.4	786.4	786.2	785.7	785.4	785.0	784.6	785.0	785.4	785.7
142.5°	815.5	815.7	815.8	815.7	815.4	814.9	814.6	814.2	814.6	814.9	815.4
145°	859.0	858.8	858.6	858.2	857.4	856.6	855.8	855.1	855.8	856.6	857.4
147.5°	899.4	899.6	899.7	899.3	898.5	897.5	896.6	895.7	896.6	897.5	898.5
150°	923.9	923.9	923.9	923.5	922.7	922.0	921.2	920.4	921.2	922.0	922.7
152.5°	946.2	946.1	945.9	945.6	945.2	944.7	944.3	943.8	944.3	944.7	945.2
155°	979.2	979.4	979.6	979.7	979.7	979.7	979.7	979.7	979.7	979.7	979.7
157.5°	1008.3	1008.3	1008.4	1008.6	1008.9	1009.3	1009.6	1010.0	1009.6	1009.3	1008.9
160°	1026.5	1026.7	1026.9	1027.1	1027.3	1027.4	1027.6	1027.9	1027.6	1027.4	1027.3
162.5°	1041.6	1041.8	1042.0	1042.3	1042.8	1043.4	1043.9	1044.3	1043.9	1043.4	1042.8
165°	1063.0	1063.3	1063.8	1064.2	1064.8	1065.4	1065.9	1066.5	1065.9	1065.4	1064.8
167.5°	1080.0	1080.0	1080.0	1080.3	1081.2	1081.9	1082.7	1083.6	1082.7	1081.9	1081.2
170°	1089.3	1089.2	1088.9	1089.3	1090.3	1091.2	1092.2	1093.1	1092.2	1091.2	1090.3
172.5°	1096.5	1096.5	1096.4	1096.8	1097.6	1098.5	1099.2	1100.0	1099.2	1098.5	1097.6
175°	1104.7	1104.9	1105.1	1105.7	1106.6	1107.6	1108.5	1109.5	1108.5	1107.6	1106.6
177.5°	1109.1	1109.1	1109.1	1109.5	1110.3	1111.0	1111.8	1112.6	1111.8	1111.0	1110.3
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



TEST NUMBER: P332653-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1409.2	1405.0	1398.8	1390.2	1383.0	1375.4	1373.6	1370.6	1376.4	1371.6	1370.2
5°	1363.0	1350.6	1334.5	1316.0	1305.3	1289.9	1286.9	1280.9	1275.0	1274.4	1268.4
7.5°	1314.1	1295.8	1274.7	1255.9	1238.5	1221.6	1210.6	1208.2	1199.4	1194.2	1188.3
10°	1282.7	1260.1	1235.7	1217.8	1197.6	1179.7	1167.3	1160.1	1154.1	1147.5	1141.6
12.5°	1245.5	1221.5	1201.4	1182.1	1158.0	1144.4	1123.9	1111.5	1110.3	1110.4	1094.9
15°	1202.3	1178.5	1147.5	1120.2	1107.1	1080.9	1069.6	1055.3	1046.4	1037.4	1030.4
17.5°	1153.0	1123.3	1099.2	1067.7	1042.7	1021.8	1007.0	998.4	985.0	972.3	963.2
20°	1122.0	1090.5	1064.8	1031.5	1004.1	978.5	966.0	954.2	944.0	933.3	923.2
22.5°	1090.5	1057.6	1026.2	993.9	968.5	941.4	929.4	913.2	903.5	897.6	887.4
25°	1041.0	1005.3	969.6	938.7	912.5	888.6	872.6	860.1	849.4	844.6	838.1
27.5°	987.2	951.7	917.2	882.1	852.4	835.1	822.3	812.8	806.7	800.3	797.4
30°	953.0	916.0	879.2	846.4	819.0	801.8	789.9	783.3	778.5	775.6	772.6
32.5°	918.2	881.8	842.9	813.0	788.5	773.2	764.1	757.6	755.2	754.1	753.0
35°	862.5	825.5	789.9	763.1	739.9	733.9	726.2	722.6	721.4	725.6	727.4
37.5°	808.6	774.3	741.4	715.4	700.3	691.6	688.9	689.1	693.3	697.0	701.3
40°	773.8	740.5	709.5	686.9	672.6	667.3	666.1	669.0	673.8	678.0	682.7
42.5°	739.9	707.1	679.0	657.8	647.8	642.9	643.7	646.6	653.3	658.4	665.6
45°	687.5	660.1	632.7	615.4	607.1	608.3	608.3	613.6	620.2	627.9	635.7
47.5°	638.1	610.4	588.0	573.4	569.1	568.1	571.4	578.4	587.8	597.4	608.2
50°	604.8	578.5	558.9	545.8	541.1	542.9	547.6	554.1	565.4	577.4	588.7
52.5°	570.9	547.1	528.9	516.8	513.4	516.7	521.4	531.8	541.7	554.5	568.2
55°	518.4	498.2	483.9	475.0	473.8	475.6	481.0	492.2	506.5	522.6	535.7
57.5°	466.1	449.3	436.2	430.0	430.6	432.2	441.1	454.5	469.8	486.9	503.8
60°	430.9	415.4	404.8	400.0	400.5	404.2	414.8	427.4	446.4	463.0	481.0
62.5°	397.6	384.0	373.8	369.5	368.7	376.5	386.8	399.8	418.8	437.4	456.7
65°	344.1	333.3	325.0	322.6	324.4	330.4	343.5	360.7	376.8	396.4	416.6
67.5°	291.6	282.8	277.2	278.2	280.3	289.1	300.1	315.0	333.2	353.5	373.6
70°	258.3	249.9	245.2	245.8	249.4	260.1	269.7	284.5	304.2	325.0	341.6
72.5°	224.0	218.5	214.3	216.8	220.3	227.7	239.6	254.5	271.8	291.2	308.8
75°	172.0	172.0	169.6	171.4	176.8	183.9	192.9	208.4	225.6	241.1	255.4
77.5°	127.6	126.3	127.9	130.0	133.1	141.5	151.8	162.8	175.8	191.3	203.1
80°	97.6	98.2	101.2	104.8	106.0	112.5	123.2	133.4	143.4	156.5	167.8
82.5°	73.4	74.0	75.5	80.0	81.2	88.3	95.1	105.2	114.4	123.2	132.6
85°	39.9	39.9	42.9	44.6	47.6	52.3	56.6	62.5	70.9	76.8	85.7
87.5°	17.4	17.8	20.0	21.3	23.0	25.7	26.9	32.4	34.4	37.1	41.5
90°	11.0	12.8	14.3	15.8	17.4	18.9	20.1	21.2	22.4	23.5	24.3
92.5°	28.0	29.8	30.8	31.9	33.0	34.0	34.7	35.4	36.1	36.8	37.3
95°	58.5	59.9	61.3	62.7	64.0	65.3	65.9	66.5	67.1	67.6	67.9
97.5°	95.6	97.0	98.6	100.1	101.8	103.3	104.0	104.7	105.4	106.1	106.4
100°	123.4	124.6	126.3	128.0	129.8	131.5	131.9	132.2	132.6	133.0	133.2
102.5°	153.2	154.1	155.7	157.2	158.8	160.4	160.9	161.4	162.0	162.5	162.8
105°	201.0	201.5	202.2	203.0	203.8	204.6	205.1	205.7	206.3	206.8	207.4
107.5°	251.8	252.0	252.2	252.3	252.4	252.5	253.0	253.6	254.1	254.6	254.9
110°	286.9	287.0	286.7	286.5	286.4	286.2	285.8	285.4	285.0	284.6	284.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	321.4	321.2	320.9	320.6	320.2	319.9	319.8	319.7	319.6	319.6	319.6
115°	374.7	374.5	374.1	373.8	373.3	373.0	372.8	372.6	372.4	372.2	372.0
117.5°	425.9	425.8	425.5	425.2	425.0	424.7	424.0	423.4	422.8	422.1	421.6
120°	462.0	462.1	461.5	460.9	460.4	459.8	458.8	457.9	456.9	456.0	455.6
122.5°	495.2	495.2	495.0	494.6	494.4	494.1	493.5	492.8	492.2	491.5	490.9
125°	545.7	545.6	545.4	545.3	545.0	544.8	544.5	544.1	543.7	543.3	542.9
127.5°	595.0	595.0	594.8	594.4	594.2	593.8	593.5	593.1	592.7	592.3	591.9
130°	627.9	628.2	628.2	628.2	628.2	628.2	627.8	627.5	627.1	626.7	626.1
132.5°	661.0	661.2	661.0	660.8	660.6	660.6	660.1	659.8	659.4	659.0	658.7
135°	708.4	709.0	709.0	709.0	709.0	709.0	708.6	708.3	707.8	707.5	707.0
137.5°	754.5	754.8	755.2	755.5	755.8	756.1	755.6	755.1	754.6	754.1	753.9
140°	786.2	786.4	786.4	786.4	786.4	786.4	786.2	786.0	785.7	785.6	785.4
142.5°	815.7	815.8	815.7	815.5	815.4	815.2	815.2	815.1	815.1	815.1	815.0
145°	858.2	858.6	858.8	859.0	859.2	859.4	859.2	859.0	858.8	858.6	858.2
147.5°	899.3	899.7	899.6	899.4	899.2	899.1	899.0	898.8	898.6	898.5	898.3
150°	923.5	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.8
152.5°	945.6	945.9	946.1	946.2	946.4	946.5	947.0	947.4	947.9	948.4	948.4
155°	979.7	979.6	979.4	979.2	979.0	978.9	979.6	980.4	981.1	981.9	981.9
157.5°	1008.6	1008.4	1008.3	1008.3	1008.3	1008.2	1008.8	1009.4	1010.0	1010.6	1010.5
160°	1027.1	1026.9	1026.7	1026.5	1026.3	1026.1	1026.7	1027.3	1027.9	1028.4	1028.2
162.5°	1042.3	1042.0	1041.8	1041.6	1041.5	1041.2	1042.2	1043.3	1044.3	1045.3	1045.4
165°	1064.2	1063.8	1063.3	1063.0	1062.6	1062.2	1063.3	1064.5	1065.7	1066.8	1067.0
167.5°	1080.3	1080.0	1080.0	1080.0	1080.0	1080.1	1081.2	1082.4	1083.6	1084.7	1084.7
170°	1089.3	1088.9	1089.2	1089.3	1089.5	1089.7	1090.9	1092.0	1093.1	1094.3	1094.2
172.5°	1096.8	1096.4	1096.5	1096.5	1096.6	1096.6	1097.9	1099.2	1100.4	1101.8	1101.7
175°	1105.7	1105.1	1104.9	1104.7	1104.5	1104.3	1105.7	1107.0	1108.4	1109.7	1109.7
177.5°	1109.5	1109.1	1109.1	1109.1	1109.1	1109.1	1110.2	1111.3	1112.3	1113.4	1113.4
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



TEST NUMBER: P332653-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1369.2	1368.3	1364.9	1364.5	1364.9	1368.3	1369.2	1370.2	1371.6	1376.4	1370.6
5°	1264.8	1261.9	1260.1	1266.6	1260.1	1261.9	1264.8	1268.4	1274.4	1275.0	1280.9
7.5°	1186.1	1183.8	1178.5	1176.9	1178.5	1183.8	1186.1	1188.3	1194.2	1199.4	1208.2
10°	1135.7	1133.2	1128.5	1127.3	1128.5	1133.2	1135.7	1141.6	1147.5	1154.1	1160.1
12.5°	1087.1	1082.4	1081.4	1082.5	1081.4	1082.4	1087.1	1094.9	1110.4	1110.3	1111.5
15°	1022.6	1020.2	1013.7	1015.5	1013.7	1020.2	1022.6	1030.4	1037.4	1046.4	1055.3
17.5°	959.0	956.1	948.2	955.2	948.2	956.1	959.0	963.2	972.3	985.0	998.4
20°	919.0	914.2	910.1	909.5	910.1	914.2	919.0	923.2	933.3	944.0	954.2
22.5°	880.9	876.7	876.2	872.4	876.2	876.7	880.9	887.4	897.6	903.5	913.2
25°	833.3	829.1	827.9	825.0	827.9	829.1	833.3	838.1	844.6	849.4	860.1
27.5°	796.8	794.7	792.6	793.5	792.6	794.7	796.8	797.4	800.3	806.7	812.8
30°	774.4	773.8	772.6	772.6	772.6	773.8	774.4	772.6	775.6	778.5	783.3
32.5°	755.8	755.7	756.4	756.4	756.4	755.7	755.8	753.0	754.1	755.2	757.6
35°	729.7	731.5	732.7	730.9	732.7	731.5	729.7	727.4	725.6	721.4	722.6
37.5°	706.2	707.9	709.6	711.6	709.6	707.9	706.2	701.3	697.0	693.3	689.1
40°	688.0	692.2	693.4	696.4	693.4	692.2	688.0	682.7	678.0	673.8	669.0
42.5°	670.9	675.5	678.6	679.2	678.6	675.5	670.9	665.6	658.4	653.3	646.6
45°	644.6	649.4	653.6	653.6	653.6	649.4	644.6	635.7	627.9	620.2	613.6
47.5°	617.3	624.2	628.4	629.5	628.4	624.2	617.3	608.2	597.4	587.8	578.4
50°	598.8	607.1	611.3	614.2	611.3	607.1	598.8	588.7	577.4	565.4	554.1
52.5°	580.7	589.0	594.6	596.2	594.6	589.0	580.7	568.2	554.5	541.7	531.8
55°	549.4	561.3	567.8	570.2	567.8	561.3	549.4	535.7	522.6	506.5	492.2
57.5°	519.9	530.8	538.5	540.2	538.5	530.8	519.9	503.8	486.9	469.8	454.5
60°	497.0	508.9	518.4	520.2	518.4	508.9	497.0	481.0	463.0	446.4	427.4
62.5°	473.6	486.0	494.6	499.3	494.6	486.0	473.6	456.7	437.4	418.8	399.8
65°	433.3	445.8	454.2	455.9	454.2	445.8	433.3	416.6	396.4	376.8	360.7
67.5°	389.3	401.7	407.3	410.7	407.3	401.7	389.3	373.6	353.5	333.2	315.0
70°	358.3	368.4	374.4	377.4	374.4	368.4	358.3	341.6	325.0	304.2	284.5
72.5°	323.0	333.6	340.6	341.2	340.6	333.6	323.0	308.8	291.2	271.8	254.5
75°	269.1	278.5	282.1	282.1	282.1	278.5	269.1	255.4	241.1	225.6	208.4
77.5°	212.9	217.8	222.4	223.3	222.4	217.8	212.9	203.1	191.3	175.8	162.8
80°	176.8	179.8	183.3	183.3	183.3	179.8	176.8	167.8	156.5	143.4	133.4
82.5°	139.7	142.2	145.7	145.3	145.7	142.2	139.7	132.6	123.2	114.4	105.2
85°	84.6	89.9	89.3	88.1	89.3	89.9	84.6	85.7	76.8	70.9	62.5
87.5°	43.0	43.6	45.1	46.1	45.1	43.6	43.0	41.5	37.1	34.4	32.4
90°	24.6	25.1	25.4	25.7	25.4	25.1	24.6	24.3	23.5	22.4	21.2
92.5°	37.5	37.7	38.0	38.1	38.0	37.7	37.5	37.3	36.8	36.1	35.4
95°	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.6	67.1	66.5
97.5°	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.1	105.4	104.7
100°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.0	132.6	132.2
102.5°	163.0	163.2	163.3	163.4	163.3	163.2	163.0	162.8	162.5	162.0	161.4
105°	207.9	208.5	209.1	209.7	209.1	208.5	207.9	207.4	206.8	206.3	205.7
107.5°	254.9	254.8	254.8	254.7	254.8	254.8	254.9	254.9	254.6	254.1	253.6
110°	285.3	285.9	286.5	287.1	286.5	285.9	285.3	284.7	284.6	285.0	285.4



TEST NUMBER: P332653-935

CATALOG NUMBER: SA4XXDIP-C1020D1035U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	319.7	319.8	319.9	320.0	319.9	319.8	319.7	319.6	319.6	319.6	319.7
115°	371.9	371.6	371.4	371.3	371.4	371.6	371.9	372.0	372.2	372.4	372.6
117.5°	421.2	420.9	420.4	420.1	420.4	420.9	421.2	421.6	422.1	422.8	423.4
120°	456.1	456.4	456.8	457.2	456.8	456.4	456.1	455.6	456.0	456.9	457.9
122.5°	490.2	489.5	488.8	488.1	488.8	489.5	490.2	490.9	491.5	492.2	492.8
125°	542.6	542.2	541.8	541.4	541.8	542.2	542.6	542.9	543.3	543.7	544.1
127.5°	591.7	591.3	591.1	590.7	591.1	591.3	591.7	591.9	592.3	592.7	593.1
130°	625.3	624.6	623.8	623.0	623.8	624.6	625.3	626.1	626.7	627.1	627.5
132.5°	658.3	658.1	657.7	657.5	657.7	658.1	658.3	658.7	659.0	659.4	659.8
135°	706.5	705.8	705.2	704.7	705.2	705.8	706.5	707.0	707.5	707.8	708.3
137.5°	754.1	754.1	754.2	754.4	754.2	754.1	754.1	753.9	754.1	754.6	755.1
140°	785.2	785.0	784.8	784.6	784.8	785.0	785.2	785.4	785.6	785.7	786.0
142.5°	815.0	814.9	814.9	814.9	814.9	814.9	815.0	815.0	815.1	815.1	815.1
145°	857.6	857.1	856.5	855.9	856.5	857.1	857.6	858.2	858.6	858.8	859.0
147.5°	898.1	897.9	897.8	897.6	897.8	897.9	898.1	898.3	898.5	898.6	898.8
150°	923.6	923.3	923.2	923.0	923.2	923.3	923.6	923.8	923.9	923.9	923.9
152.5°	947.9	947.4	946.8	946.3	946.8	947.4	947.9	948.4	948.4	947.9	947.4
155°	981.1	980.4	979.6	978.9	979.6	980.4	981.1	981.9	981.9	981.1	980.4
157.5°	1009.9	1009.2	1008.6	1007.9	1008.6	1009.2	1009.9	1010.5	1010.6	1010.0	1009.4
160°	1027.3	1026.3	1025.4	1024.4	1025.4	1026.3	1027.3	1028.2	1028.4	1027.9	1027.3
162.5°	1044.5	1043.5	1042.6	1041.6	1042.6	1043.5	1044.5	1045.4	1045.3	1044.3	1043.3
165°	1066.3	1065.5	1064.7	1063.9	1064.7	1065.5	1066.3	1067.0	1066.8	1065.7	1064.5
167.5°	1083.5	1082.3	1081.1	1080.0	1081.1	1082.3	1083.5	1084.7	1084.7	1083.6	1082.4
170°	1092.9	1091.5	1090.2	1088.8	1090.2	1091.5	1092.9	1094.2	1094.3	1093.1	1092.0
172.5°	1100.4	1099.1	1097.8	1096.4	1097.8	1099.1	1100.4	1101.7	1101.8	1100.4	1099.2
175°	1108.4	1107.0	1105.7	1104.3	1105.7	1107.0	1108.4	1109.7	1109.7	1108.4	1107.0
177.5°	1112.2	1110.9	1109.7	1108.5	1109.7	1110.9	1112.2	1113.4	1113.4	1112.3	1111.3
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



TEST NUMBER: P332653-935

CATALOG NUMBER: SA4XXDIP-C1020D1035U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1373.6	1375.4	1383.0	1390.2	1398.8	1405.0	1409.2	1414.0	1424.0	1432.1	1439.7
5°	1286.9	1289.9	1305.3	1316.0	1334.5	1350.6	1363.0	1376.7	1392.8	1414.8	1435.0
7.5°	1210.6	1221.6	1238.5	1255.9	1274.7	1295.8	1314.1	1334.7	1362.4	1392.7	1423.8
10°	1167.3	1179.7	1197.6	1217.8	1235.7	1260.1	1282.7	1307.1	1338.6	1375.5	1412.5
12.5°	1123.9	1144.4	1158.0	1182.1	1201.4	1221.5	1245.5	1277.6	1314.3	1353.1	1397.7
15°	1069.6	1080.9	1107.1	1120.2	1147.5	1178.5	1202.3	1234.5	1270.1	1321.4	1371.4
17.5°	1007.0	1021.8	1042.7	1067.7	1099.2	1123.3	1153.0	1186.0	1231.1	1281.9	1344.5
20°	966.0	978.5	1004.1	1031.5	1064.8	1090.5	1122.0	1154.1	1200.6	1254.7	1320.2
22.5°	929.4	941.4	968.5	993.9	1026.2	1057.6	1090.5	1127.9	1172.4	1229.5	1296.4
25°	872.6	888.6	912.5	938.7	969.6	1005.3	1041.0	1074.4	1122.0	1182.1	1253.5
27.5°	822.3	835.1	852.4	882.1	917.2	951.7	987.2	1029.2	1074.9	1138.4	1212.5
30°	789.9	801.8	819.0	846.4	879.2	916.0	953.0	993.4	1041.0	1104.1	1179.7
32.5°	764.1	773.2	788.5	813.0	842.9	881.8	918.2	960.1	1010.0	1072.2	1145.9
35°	726.2	733.9	739.9	763.1	789.9	825.5	862.5	907.1	955.3	1014.3	1088.0
37.5°	688.9	691.6	700.3	715.4	741.4	774.3	808.6	852.5	901.9	961.7	1028.3
40°	666.1	667.3	672.6	686.9	709.5	740.5	773.8	817.3	864.3	920.8	986.9
42.5°	643.7	642.9	647.8	657.8	679.0	707.1	739.9	779.6	826.6	878.9	941.2
45°	608.3	608.3	607.1	615.4	632.7	660.1	687.5	725.6	764.8	816.1	868.4
47.5°	571.4	568.1	569.1	573.4	588.0	610.4	638.1	669.3	703.9	747.3	793.2
50°	547.6	542.9	541.1	545.8	558.9	578.5	604.8	632.1	664.9	702.9	742.3
52.5°	521.4	516.7	513.4	516.8	528.9	547.1	570.9	595.0	624.4	655.3	689.4
55°	481.0	475.6	473.8	475.0	483.9	498.2	518.4	540.4	562.5	588.1	611.9
57.5°	441.1	432.2	430.6	430.0	436.2	449.3	466.1	485.3	501.3	516.8	542.1
60°	414.8	404.2	400.5	400.0	404.8	415.4	430.9	450.0	461.3	472.0	494.0
62.5°	386.8	376.5	368.7	369.5	373.8	384.0	397.6	411.4	418.9	430.6	445.5
65°	343.5	330.4	324.4	322.6	325.0	333.3	344.1	352.9	361.3	366.1	380.3
67.5°	300.1	289.1	280.3	278.2	277.2	282.8	291.6	297.0	303.0	307.1	315.6
70°	269.7	260.1	249.4	245.8	245.2	249.9	258.3	258.9	267.3	269.1	277.9
72.5°	239.6	227.7	220.3	216.8	214.3	218.5	224.0	225.6	230.1	233.3	238.0
75°	192.9	183.9	176.8	171.4	169.6	172.0	172.0	175.0	178.0	179.8	185.1
77.5°	151.8	141.5	133.1	130.0	127.9	126.3	127.6	129.4	127.9	131.0	132.2
80°	123.2	112.5	106.0	104.8	101.2	98.2	97.6	99.4	97.0	98.2	101.8
82.5°	95.1	88.3	81.2	80.0	75.5	74.0	73.4	72.2	72.2	72.0	72.8
85°	56.6	52.3	47.6	44.6	42.9	39.9	39.9	38.7	37.5	36.3	36.9
87.5°	26.9	25.7	23.0	21.3	20.0	17.8	17.4	15.6	14.7	13.8	12.9
90°	20.1	18.9	17.4	15.8	14.3	12.8	11.0	8.9	6.8	4.6	2.6
92.5°	34.7	34.0	33.0	31.9	30.8	29.8	28.0	25.6	23.2	20.8	18.4
95°	65.9	65.3	64.0	62.7	61.3	59.9	58.5	56.7	55.0	53.3	51.6
97.5°	104.0	103.3	101.8	100.1	98.6	97.0	95.6	94.2	92.8	91.4	90.1
100°	131.9	131.5	129.8	128.0	126.3	124.6	123.4	122.6	121.8	121.1	120.3
102.5°	160.9	160.4	158.8	157.2	155.7	154.1	153.2	152.8	152.6	152.2	152.0
105°	205.1	204.6	203.8	203.0	202.2	201.5	201.0	200.8	200.6	200.4	200.3
107.5°	253.0	252.5	252.4	252.3	252.2	252.0	251.8	251.7	251.4	251.2	251.0
110°	285.8	286.2	286.4	286.5	286.7	287.0	286.9	286.5	286.1	285.7	285.3



TEST NUMBER: P332653-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	319.8	319.9	320.2	320.6	320.9	321.2	321.4	321.3	321.2	321.2	321.1
115°	372.8	373.0	373.3	373.8	374.1	374.5	374.7	374.7	374.7	374.7	374.7
117.5°	424.0	424.7	425.0	425.2	425.5	425.8	425.9	425.7	425.5	425.4	425.2
120°	458.8	459.8	460.4	460.9	461.5	462.1	462.0	461.2	460.5	459.7	458.9
122.5°	493.5	494.1	494.4	494.6	495.0	495.2	495.2	494.9	494.6	494.3	494.0
125°	544.5	544.8	545.0	545.3	545.4	545.6	545.7	545.7	545.7	545.7	545.7
127.5°	593.5	593.8	594.2	594.4	594.8	595.0	595.0	594.3	593.7	593.2	592.6
130°	627.8	628.2	628.2	628.2	628.2	628.2	627.9	627.3	626.8	626.2	625.6
132.5°	660.1	660.6	660.6	660.8	661.0	661.2	661.0	660.6	660.1	659.8	659.4
135°	708.6	709.0	709.0	709.0	709.0	709.0	708.4	707.3	706.1	705.0	703.9
137.5°	755.6	756.1	755.8	755.5	755.2	754.8	754.5	753.9	753.4	752.9	752.3
140°	786.2	786.4	786.4	786.4	786.4	786.4	786.2	785.7	785.4	785.0	784.6
142.5°	815.2	815.2	815.4	815.5	815.7	815.8	815.7	815.4	814.9	814.6	814.2
145°	859.2	859.4	859.2	859.0	858.8	858.6	858.2	857.4	856.6	855.8	855.1
147.5°	899.0	899.1	899.2	899.4	899.6	899.7	899.3	898.5	897.5	896.6	895.7
150°	923.9	923.9	923.9	923.9	923.9	923.9	923.5	922.7	922.0	921.2	920.4
152.5°	947.0	946.5	946.4	946.2	946.1	945.9	945.6	945.2	944.7	944.3	943.8
155°	979.6	978.9	979.0	979.2	979.4	979.6	979.7	979.7	979.7	979.7	979.7
157.5°	1008.8	1008.2	1008.3	1008.3	1008.3	1008.4	1008.6	1008.9	1009.3	1009.6	1010.0
160°	1026.7	1026.1	1026.3	1026.5	1026.7	1026.9	1027.1	1027.3	1027.4	1027.6	1027.9
162.5°	1042.2	1041.2	1041.5	1041.6	1041.8	1042.0	1042.3	1042.8	1043.4	1043.9	1044.3
165°	1063.3	1062.2	1062.6	1063.0	1063.3	1063.8	1064.2	1064.8	1065.4	1065.9	1066.5
167.5°	1081.2	1080.1	1080.0	1080.0	1080.0	1080.0	1080.3	1081.2	1081.9	1082.7	1083.6
170°	1090.9	1089.7	1089.5	1089.3	1089.2	1088.9	1089.3	1090.3	1091.2	1092.2	1093.1
172.5°	1097.9	1096.6	1096.6	1096.5	1096.5	1096.4	1096.8	1097.6	1098.5	1099.2	1100.0
175°	1105.7	1104.3	1104.5	1104.7	1104.9	1105.1	1105.7	1106.6	1107.6	1108.5	1109.5
177.5°	1110.2	1109.1	1109.1	1109.1	1109.1	1109.1	1109.5	1110.3	1111.0	1111.8	1112.6
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1446.4	1451.1	1457.3	1467.8	1471.6	1476.4	1483.1	1482.6	1484.5	1491.6	1506.8
5°	1451.7	1470.2	1488.1	1509.5	1532.1	1547.0	1567.2	1579.7	1592.2	1608.3	1635.6
7.5°	1453.9	1483.2	1515.9	1553.5	1587.0	1625.6	1655.6	1683.9	1709.6	1743.5	1776.2
10°	1450.5	1489.8	1532.1	1579.7	1630.3	1673.2	1711.8	1755.9	1793.4	1834.4	1871.4
12.5°	1444.3	1491.8	1548.3	1601.6	1660.8	1724.1	1772.3	1816.8	1866.7	1914.0	1970.9
15°	1430.3	1495.2	1561.3	1631.5	1710.6	1783.8	1853.5	1911.2	1964.8	2035.7	2110.1
17.5°	1412.5	1482.5	1565.7	1650.8	1733.5	1817.2	1903.4	1990.2	2057.8	2145.8	2204.0
20°	1395.8	1476.7	1562.5	1663.6	1746.4	1850.5	1936.2	2020.2	2113.0	2200.5	2270.1
22.5°	1372.4	1461.0	1552.0	1652.7	1761.6	1865.8	1964.8	2055.9	2148.7	2243.9	2328.2
25°	1342.8	1423.1	1530.9	1645.2	1753.5	1866.6	1980.3	2094.6	2194.5	2295.2	2373.7
27.5°	1292.4	1393.8	1494.1	1612.1	1732.4	1860.4	1981.9	2101.6	2206.3	2289.1	2337.8
30°	1266.6	1354.7	1463.6	1582.1	1712.4	1849.9	1976.7	2094.0	2191.6	2257.6	2277.3
32.5°	1228.6	1319.5	1426.0	1548.8	1686.7	1828.0	1960.1	2070.6	2152.1	2186.7	2163.0
35°	1172.0	1254.1	1361.8	1487.5	1630.9	1781.5	1911.9	2005.3	2046.9	2014.2	1932.7
37.5°	1104.1	1185.5	1293.7	1417.1	1565.6	1718.6	1836.5	1903.8	1889.9	1808.5	1687.0
40°	1056.5	1132.7	1235.7	1369.0	1513.6	1667.2	1770.7	1807.1	1769.0	1652.3	1523.2
42.5°	1003.7	1078.0	1181.4	1309.9	1463.2	1604.8	1695.1	1698.1	1634.2	1494.7	1365.0
45°	923.2	994.0	1091.7	1225.5	1367.2	1500.6	1560.0	1530.9	1413.1	1278.5	1148.1
47.5°	843.8	905.2	1001.4	1128.5	1263.1	1375.3	1404.8	1352.3	1226.8	1096.1	975.3
50°	785.7	847.6	938.1	1059.5	1189.2	1286.2	1300.5	1230.9	1107.7	976.1	881.5
52.5°	730.0	791.4	878.6	990.9	1109.7	1197.2	1197.7	1117.1	994.4	877.1	789.1
55°	648.2	703.5	782.1	882.7	988.7	1057.1	1040.4	957.1	850.6	748.8	672.0
57.5°	569.4	617.6	690.0	773.9	867.2	923.7	896.0	815.8	720.7	634.4	576.2
60°	518.4	564.3	626.2	705.3	783.9	827.9	801.8	729.1	641.6	572.0	521.4
62.5°	468.9	507.6	567.1	635.8	708.7	741.3	718.0	646.3	570.7	507.7	466.7
65°	398.8	430.3	477.9	536.9	589.9	617.9	598.2	531.5	473.8	428.5	395.8
67.5°	333.3	358.0	394.0	441.3	486.3	501.4	483.5	437.1	388.2	352.0	328.9
70°	288.1	311.3	341.6	378.0	417.2	433.3	415.4	378.6	338.7	305.3	282.8
72.5°	248.6	266.6	292.1	323.2	354.0	370.0	357.8	322.4	288.7	263.9	244.6
75°	189.2	204.7	222.6	244.6	268.5	279.1	268.5	244.0	220.8	202.3	188.6
77.5°	137.6	145.9	159.7	176.2	191.1	199.2	190.0	173.4	159.3	146.6	139.9
80°	104.8	110.7	120.2	133.4	143.4	151.2	145.3	131.6	120.2	111.9	108.9
82.5°	76.2	80.2	86.4	96.2	103.0	106.9	104.3	94.4	89.7	82.4	79.4
85°	37.5	39.9	44.1	47.0	53.0	53.6	54.2	50.0	45.8	44.1	41.7
87.5°	13.8	14.7	16.5	18.4	20.7	21.4	21.3	21.6	20.0	19.7	18.1
90°	4.6	6.8	8.9	11.0	12.8	14.3	15.8	17.4	18.9	20.1	21.2
92.5°	20.8	23.2	25.6	28.0	29.8	30.8	31.9	33.0	34.0	34.7	35.4
95°	53.3	55.0	56.7	58.5	59.9	61.3	62.7	64.0	65.3	65.9	66.5
97.5°	91.4	92.8	94.2	95.6	97.0	98.6	100.1	101.8	103.3	104.0	104.7
100°	121.1	121.8	122.6	123.4	124.6	126.3	128.0	129.8	131.5	131.9	132.2
102.5°	152.2	152.6	152.8	153.2	154.1	155.7	157.2	158.8	160.4	160.9	161.4
105°	200.4	200.6	200.8	201.0	201.5	202.2	203.0	203.8	204.6	205.1	205.7
107.5°	251.2	251.4	251.7	251.8	252.0	252.2	252.3	252.4	252.5	253.0	253.6
110°	285.7	286.1	286.5	286.9	287.0	286.7	286.5	286.4	286.2	285.8	285.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	321.2	321.2	321.3	321.4	321.2	320.9	320.6	320.2	319.9	319.8	319.7
115°	374.7	374.7	374.7	374.7	374.5	374.1	373.8	373.3	373.0	372.8	372.6
117.5°	425.4	425.5	425.7	425.9	425.8	425.5	425.2	425.0	424.7	424.0	423.4
120°	459.7	460.5	461.2	462.0	462.1	461.5	460.9	460.4	459.8	458.8	457.9
122.5°	494.3	494.6	494.9	495.2	495.2	495.0	494.6	494.4	494.1	493.5	492.8
125°	545.7	545.7	545.7	545.7	545.6	545.4	545.3	545.0	544.8	544.5	544.1
127.5°	593.2	593.7	594.3	595.0	595.0	594.8	594.4	594.2	593.8	593.5	593.1
130°	626.2	626.8	627.3	627.9	628.2	628.2	628.2	628.2	628.2	627.8	627.5
132.5°	659.8	660.1	660.6	661.0	661.2	661.0	660.8	660.6	660.6	660.1	659.8
135°	705.0	706.1	707.3	708.4	709.0	709.0	709.0	709.0	709.0	708.6	708.3
137.5°	752.9	753.4	753.9	754.5	754.8	755.2	755.5	755.8	756.1	755.6	755.1
140°	785.0	785.4	785.7	786.2	786.4	786.4	786.4	786.4	786.4	786.2	786.0
142.5°	814.6	814.9	815.4	815.7	815.8	815.7	815.5	815.4	815.2	815.2	815.1
145°	855.8	856.6	857.4	858.2	858.6	858.8	859.0	859.2	859.4	859.2	859.0
147.5°	896.6	897.5	898.5	899.3	899.7	899.6	899.4	899.2	899.1	899.0	898.8
150°	921.2	922.0	922.7	923.5	923.9	923.9	923.9	923.9	923.9	923.9	923.9
152.5°	944.3	944.7	945.2	945.6	945.9	946.1	946.2	946.4	946.5	947.0	947.4
155°	979.7	979.7	979.7	979.7	979.6	979.4	979.2	979.0	978.9	979.6	980.4
157.5°	1009.6	1009.3	1008.9	1008.6	1008.4	1008.3	1008.3	1008.3	1008.2	1008.8	1009.4
160°	1027.6	1027.4	1027.3	1027.1	1026.9	1026.7	1026.5	1026.3	1026.1	1026.7	1027.3
162.5°	1043.9	1043.4	1042.8	1042.3	1042.0	1041.8	1041.6	1041.5	1041.2	1042.2	1043.3
165°	1065.9	1065.4	1064.8	1064.2	1063.8	1063.3	1063.0	1062.6	1062.2	1063.3	1064.5
167.5°	1082.7	1081.9	1081.2	1080.3	1080.0	1080.0	1080.0	1080.0	1080.1	1081.2	1082.4
170°	1092.2	1091.2	1090.3	1089.3	1088.9	1089.2	1089.3	1089.5	1089.7	1090.9	1092.0
172.5°	1099.2	1098.5	1097.6	1096.8	1096.4	1096.5	1096.5	1096.6	1096.6	1097.9	1099.2
175°	1108.5	1107.6	1106.6	1105.7	1105.1	1104.9	1104.7	1104.5	1104.3	1105.7	1107.0
177.5°	1111.8	1111.0	1110.3	1109.5	1109.1	1109.1	1109.1	1109.1	1109.1	1110.2	1111.3
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1514.5	1515.4	1519.7	1523.0	1524.0	1528.8	1529.2
5°	1647.5	1657.7	1677.3	1679.1	1682.0	1697.5	1685.7
7.5°	1803.5	1829.2	1846.3	1861.5	1867.0	1873.7	1872.3
10°	1903.5	1941.6	1960.7	1991.0	1992.2	1999.9	1995.2
12.5°	2004.0	2048.2	2083.0	2088.6	2114.1	2118.0	2124.7
15°	2146.3	2193.4	2241.6	2258.8	2294.0	2302.3	2315.4
17.5°	2280.2	2328.2	2362.1	2406.7	2421.1	2440.4	2427.2
20°	2353.5	2405.9	2448.7	2483.8	2498.7	2509.4	2508.3
22.5°	2397.8	2450.6	2485.4	2511.9	2525.8	2530.4	2530.1
25°	2425.5	2455.8	2466.6	2476.7	2461.3	2455.8	2458.2
27.5°	2348.4	2340.5	2312.6	2275.9	2237.7	2207.5	2191.1
30°	2242.2	2195.7	2153.4	2079.7	2041.6	2019.0	1998.7
32.5°	2091.7	2018.1	1936.8	1869.2	1825.9	1792.3	1787.3
35°	1833.8	1723.1	1623.8	1541.0	1498.1	1461.8	1453.5
37.5°	1559.1	1444.1	1354.6	1281.8	1235.7	1210.0	1186.1
40°	1376.7	1277.9	1189.8	1127.9	1092.8	1074.4	1059.5
42.5°	1236.2	1146.0	1058.4	1011.2	979.5	968.2	959.5
45°	1042.2	958.3	897.6	861.9	843.4	824.4	815.5
47.5°	886.8	818.6	778.5	748.2	728.4	717.1	711.4
50°	798.7	742.8	707.1	683.9	666.1	657.1	652.4
52.5°	720.7	674.8	644.7	626.3	614.2	607.6	605.7
55°	620.8	585.7	566.6	550.6	541.7	535.7	533.3
57.5°	539.6	512.6	497.1	483.9	480.4	475.4	473.8
60°	486.3	465.5	452.4	443.4	440.5	434.5	435.7
62.5°	439.1	422.1	411.0	405.8	401.9	396.9	398.6
65°	371.4	359.0	352.9	348.2	343.5	340.4	342.9
67.5°	311.7	303.1	295.0	292.2	289.9	289.4	286.9
70°	272.6	265.4	258.3	256.6	256.6	254.2	253.6
72.5°	235.0	229.7	225.0	223.7	221.8	222.7	220.2
75°	181.5	177.4	175.6	173.8	173.2	173.2	171.4
77.5°	134.1	131.0	128.2	128.2	126.1	125.3	125.0
80°	101.8	100.6	98.2	98.2	97.0	97.6	96.4
82.5°	76.5	74.9	74.4	73.4	71.8	71.9	70.7
85°	41.1	39.3	38.7	36.9	35.7	36.9	35.7
87.5°	18.8	18.5	18.2	17.3	16.9	17.0	15.7
90°	22.4	23.5	24.3	24.6	25.1	25.4	25.7
92.5°	36.1	36.8	37.3	37.5	37.7	38.0	38.1
95°	67.1	67.6	67.9	67.9	67.9	67.9	67.9
97.5°	105.4	106.1	106.4	106.4	106.4	106.4	106.4
100°	132.6	133.0	133.2	133.2	133.2	133.2	133.2
102.5°	162.0	162.5	162.8	163.0	163.2	163.3	163.4
105°	206.3	206.8	207.4	207.9	208.5	209.1	209.7
107.5°	254.1	254.6	254.9	254.9	254.8	254.8	254.7
110°	285.0	284.6	284.7	285.3	285.9	286.5	287.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	319.6	319.6	319.6	319.7	319.8	319.9	320.0
115°	372.4	372.2	372.0	371.9	371.6	371.4	371.3
117.5°	422.8	422.1	421.6	421.2	420.9	420.4	420.1
120°	456.9	456.0	455.6	456.1	456.4	456.8	457.2
122.5°	492.2	491.5	490.9	490.2	489.5	488.8	488.1
125°	543.7	543.3	542.9	542.6	542.2	541.8	541.4
127.5°	592.7	592.3	591.9	591.7	591.3	591.1	590.7
130°	627.1	626.7	626.1	625.3	624.6	623.8	623.0
132.5°	659.4	659.0	658.7	658.3	658.1	657.7	657.5
135°	707.8	707.5	707.0	706.5	705.8	705.2	704.7
137.5°	754.6	754.1	753.9	754.1	754.1	754.2	754.4
140°	785.7	785.6	785.4	785.2	785.0	784.8	784.6
142.5°	815.1	815.1	815.0	815.0	814.9	814.9	814.9
145°	858.8	858.6	858.2	857.6	857.1	856.5	855.9
147.5°	898.6	898.5	898.3	898.1	897.9	897.8	897.6
150°	923.9	923.9	923.8	923.6	923.3	923.2	923.0
152.5°	947.9	948.4	948.4	947.9	947.4	946.8	946.3
155°	981.1	981.9	981.9	981.1	980.4	979.6	978.9
157.5°	1010.0	1010.6	1010.5	1009.9	1009.2	1008.6	1007.9
160°	1027.9	1028.4	1028.2	1027.3	1026.3	1025.4	1024.4
162.5°	1044.3	1045.3	1045.4	1044.5	1043.5	1042.6	1041.6
165°	1065.7	1066.8	1067.0	1066.3	1065.5	1064.7	1063.9
167.5°	1083.6	1084.7	1084.7	1083.5	1082.3	1081.1	1080.0
170°	1093.1	1094.3	1094.2	1092.9	1091.5	1090.2	1088.8
172.5°	1100.4	1101.8	1101.7	1100.4	1099.1	1097.8	1096.4
175°	1108.4	1109.7	1109.7	1108.4	1107.0	1105.7	1104.3
177.5°	1112.3	1113.4	1113.4	1112.2	1110.9	1109.7	1108.5
180°	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2	1111.2

(END OF REPORT)