

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: P331458-927

Luminaire Tested: **SA2XXDIP-C1005D1080U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331458-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D1080U927-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6819.3 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

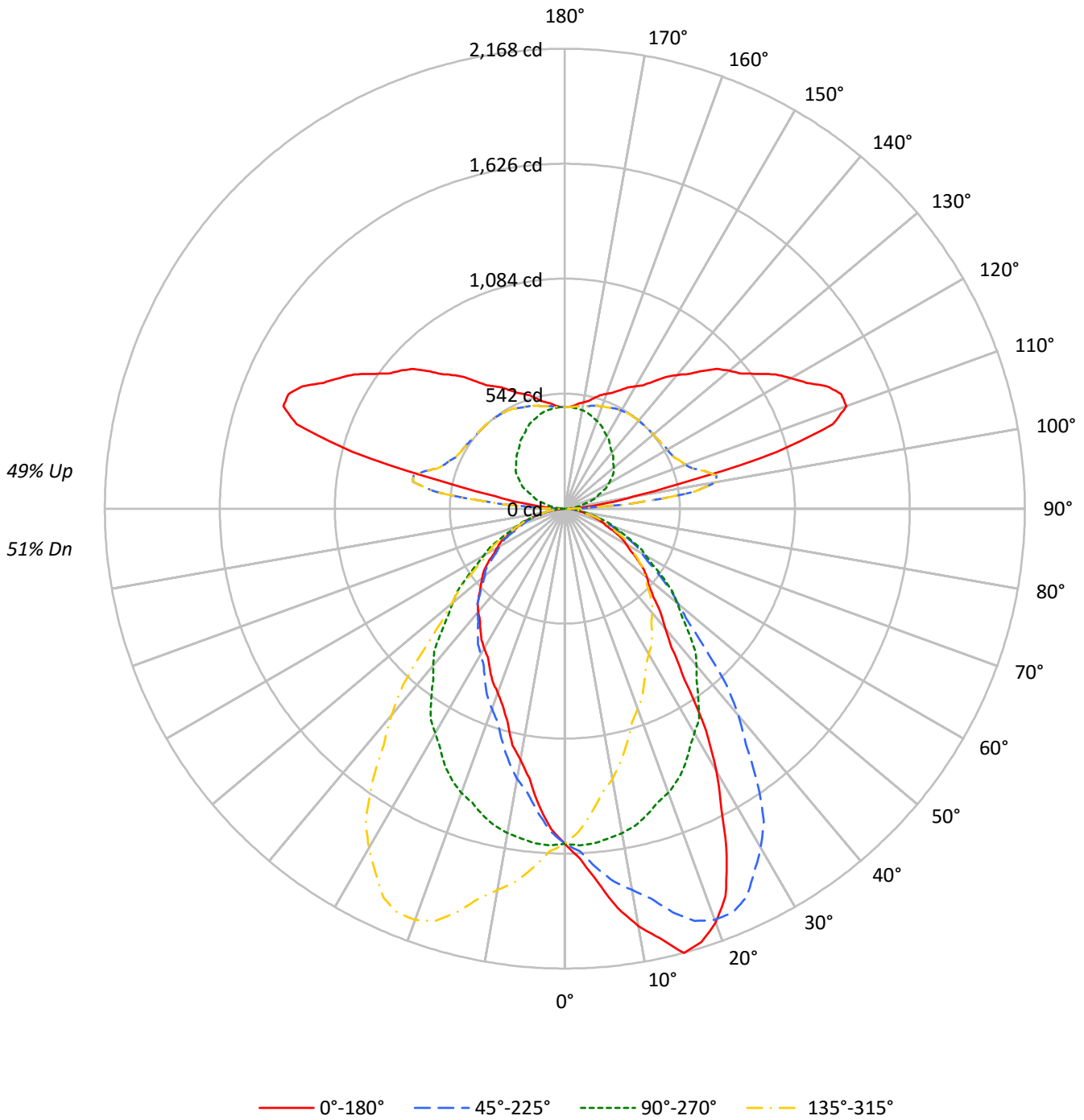
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	83	73	66	61	76	68	62	57	58	54	50	49	46	43	41	39	36	33
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	51	45	64	54	47	42	47	42	37	40	36	33	34	31	28	25
6	64	53	45	39	59	49	42	37	43	37	33	36	32	29	31	27	25	22
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	31	26	23	26	23	20	18
9	52	40	32	27	48	37	31	26	33	27	24	28	24	21	24	21	18	16
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25504	25504	25504	25504
5°	28593	25671	22749	25671
10°	32765	25460	19687	25460
15°	36247	24993	17392	24993
20°	35696	24493	15856	24493
25°	32186	23826	14883	23826
30°	26597	22760	14171	22760
35°	19385	21646	13665	21646
40°	15483	20331	13384	20331
45°	13531	18810	13001	18810
50°	12717	17337	12750	17337
55°	11724	15842	12408	15842
60°	10743	14250	11880	14250
65°	9788	12825	11366	12825
70°	8884	11434	10607	11434
75°	7879	9881	9395	9881
80°	6778	8182	7569	8182
85°	6076	6076	4502	6076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	2.2
10°-20°	437.4	6.4
20°-30°	634.7	9.3
30°-40°	669.8	9.8
40°-50°	593.0	8.7
50°-60°	473.3	6.9
60°-70°	321.7	4.7
70°-80°	164.9	2.4
80°-90°	44.1	0.6
90°-100°	191.3	2.8
100°-110°	649.3	9.5
110°-120°	689.8	10.1
120°-130°	567.8	8.3
130°-140°	456.0	6.7
140°-150°	344.6	5.1
150°-160°	242.2	3.6
160°-170°	142.6	2.1
170°-180°	46.4	0.7
0°-30°	1222.5	17.9
0°-40°	1892.3	27.7
0°-60°	2958.6	43.4
0°-90°	3489.3	51.2
90°-120°	1530.4	22.4
90°-150°	2898.8	42.5
90°-180°	3330.0	48.8
0°-180°	6819.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1580	1580	1580	1580	1580	
5°	1764	1584	1404	1584	1764	176
15°	2168	1495	1040	1495	2168	598
25°	1807	1337	835	1337	1807	817
35°	984	1098	693	1098	984	640
45°	593	824	569	824	593	466
55°	416	563	441	563	416	373
65°	256	336	298	336	256	255
75°	126	158	151	158	126	135
85°	33	33	24	33	33	37
90°	30	1	30	1	30	18
95°	105	32	105	32	105	136
105°	1037	112	1037	112	1037	1003
115°	1365	198	1365	198	1365	1336
125°	1107	276	1107	276	1107	1000
135°	918	324	918	324	918	713
145°	732	370	732	370	732	465
155°	616	421	616	421	616	287
165°	540	458	540	458	540	154
175°	487	478	487	478	487	47
180°	479	479	479	479	479	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1652.5	1653.0	1653.9	1646.2	1645.2	1645.2	1638.4	1632.6	1625.8	1616.5	1617.6
5°	1764.2	1770.8	1773.3	1766.0	1755.1	1753.9	1743.6	1726.6	1710.8	1698.0	1688.9
7.5°	1897.5	1900.2	1894.3	1884.7	1876.5	1861.9	1842.8	1823.9	1797.6	1773.5	1755.5
10°	1998.5	2002.2	1991.9	1977.9	1966.4	1949.4	1921.4	1892.9	1858.3	1825.0	1798.2
12.5°	2075.3	2084.2	2071.0	2069.2	2049.5	2026.1	1992.8	1978.4	1929.7	1883.2	1854.6
15°	2168.5	2167.9	2169.2	2157.6	2143.0	2139.4	2104.2	2065.9	1997.3	1970.0	1922.6
17.5°	2141.6	2150.8	2155.1	2154.9	2154.6	2152.3	2141.0	2116.8	2082.4	2038.1	1983.5
20°	2077.5	2089.6	2091.4	2105.4	2113.3	2123.6	2127.9	2121.1	2099.9	2062.9	2015.5
22.5°	1978.4	1981.8	1987.5	2009.2	2026.3	2052.2	2065.7	2088.1	2080.0	2061.9	2022.4
25°	1806.7	1800.6	1821.9	1832.8	1872.2	1913.5	1943.3	1976.1	2005.3	2022.8	2011.3
27.5°	1600.5	1591.4	1623.3	1652.3	1684.3	1729.0	1775.4	1830.1	1875.7	1932.6	1952.2
30°	1426.6	1432.1	1462.4	1493.4	1542.0	1605.1	1657.3	1717.5	1782.4	1846.2	1890.5
32.5°	1239.2	1260.2	1279.4	1326.8	1369.6	1440.0	1516.5	1591.7	1672.7	1745.2	1813.8
35°	983.5	1007.7	1034.5	1069.1	1129.2	1199.0	1273.7	1375.1	1485.6	1584.5	1665.9
37.5°	827.8	823.9	839.2	864.3	912.9	969.3	1055.3	1155.4	1285.5	1401.8	1516.5
40°	734.6	732.1	743.1	766.1	803.2	844.5	919.7	1007.7	1128.5	1270.7	1407.2
42.5°	670.5	671.9	678.0	694.3	719.6	753.6	810.0	884.9	995.5	1129.3	1276.1
45°	592.6	596.8	603.5	611.3	625.9	653.9	685.4	738.9	826.2	937.9	1082.4
47.5°	536.4	536.5	543.4	550.2	558.9	574.6	600.4	633.9	695.6	786.6	910.8
50°	506.3	502.1	506.9	512.4	521.5	532.4	549.4	581.0	622.3	695.7	799.5
52.5°	469.4	469.5	473.9	475.9	484.1	495.0	510.6	532.4	569.8	627.2	712.6
55°	416.5	419.5	421.9	425.6	432.8	440.8	452.9	467.5	496.6	539.7	602.9
57.5°	366.7	367.7	370.1	377.0	381.6	388.9	400.4	413.7	432.6	464.5	512.0
60°	332.7	332.7	337.5	340.6	346.7	353.9	363.1	375.8	392.8	418.9	457.2
62.5°	301.6	301.1	303.1	308.0	312.7	319.5	328.5	339.4	355.4	378.6	410.0
65°	256.2	255.0	258.6	259.8	264.7	271.4	278.7	290.2	302.9	320.0	347.8
67.5°	212.5	214.0	215.9	218.2	220.9	227.9	232.7	240.9	251.7	265.8	284.7
70°	188.2	188.2	188.2	190.0	193.7	197.3	202.2	208.8	219.2	231.3	248.3
72.5°	161.0	163.0	164.9	163.8	168.4	170.6	176.4	180.2	190.0	197.8	212.9
75°	126.3	126.3	126.3	129.3	131.1	132.9	136.6	140.2	145.1	154.8	162.7
77.5°	94.2	94.0	94.6	95.3	97.3	99.4	100.5	103.8	108.3	112.8	119.5
80°	72.9	74.1	74.7	75.9	75.9	77.1	77.7	82.0	85.0	88.0	92.3
82.5°	56.3	56.6	56.7	57.0	57.4	58.1	59.7	61.1	62.2	64.7	68.0
85°	32.8	32.2	32.2	33.4	32.8	32.8	34.0	35.2	35.2	35.8	37.6
87.5°	18.7	18.7	19.2	18.7	18.7	19.0	18.6	18.5	19.2	19.9	20.1
90°	30.3	30.3	30.3	30.3	30.3	29.5	27.6	29.5	30.3	31.3	30.3
92.5°	51.0	52.4	51.7	54.7	55.4	61.1	68.8	80.2	101.1	119.6	118.0
95°	104.9	104.0	106.8	114.1	126.0	146.3	185.0	241.1	315.7	360.8	319.3
97.5°	206.5	214.2	227.7	250.3	294.3	360.8	460.3	562.6	646.0	615.8	463.8
100°	329.5	346.0	372.7	412.3	488.6	600.0	726.1	840.2	859.5	727.0	500.6
102.5°	579.8	602.2	635.6	703.1	786.1	904.0	996.2	1022.1	939.1	730.7	486.6
105°	1037.1	1050.0	1089.6	1146.6	1203.7	1234.1	1222.1	1118.1	926.7	681.9	459.2
107.5°	1324.8	1341.9	1349.8	1353.0	1345.8	1301.2	1205.5	1048.9	845.9	629.6	445.6
110°	1411.7	1412.6	1404.3	1386.8	1347.3	1271.8	1154.0	989.3	795.1	604.6	442.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1410.2	1405.3	1389.6	1360.3	1305.3	1218.8	1092.9	934.8	759.8	588.4	443.4
115°	1364.8	1356.5	1332.5	1290.2	1224.9	1130.0	1009.6	867.8	716.0	570.5	447.3
117.5°	1283.6	1276.6	1251.3	1206.7	1140.0	1051.1	941.8	817.4	688.3	561.9	453.8
120°	1231.3	1222.1	1195.4	1152.1	1087.7	1004.0	906.4	792.3	673.6	556.7	458.3
122.5°	1176.8	1169.1	1145.3	1102.8	1045.0	969.4	877.0	772.5	661.1	553.8	463.4
125°	1107.1	1099.7	1076.7	1041.7	988.3	919.3	838.4	743.5	643.3	548.5	471.2
127.5°	1046.0	1040.1	1020.2	987.5	940.9	877.2	800.8	715.0	626.7	545.3	479.1
130°	1011.4	1004.0	985.6	954.3	909.2	848.5	775.8	696.6	615.7	543.8	485.0
132.5°	975.3	968.7	951.7	920.4	876.1	819.0	752.3	679.0	606.8	543.1	490.8
135°	917.5	913.8	897.2	866.9	827.3	775.8	715.0	654.3	594.5	542.0	497.9
137.5°	860.8	855.3	840.7	814.6	778.6	733.6	685.4	634.6	585.8	541.9	504.1
140°	821.8	816.3	802.5	778.6	749.1	708.6	666.3	622.1	580.7	541.1	507.1
142.5°	782.8	781.6	769.4	747.6	719.6	685.8	649.4	611.8	575.5	541.1	509.3
145°	732.5	729.8	720.6	704.9	682.9	656.2	627.6	597.2	568.7	539.2	511.7
147.5°	690.4	688.7	682.5	669.9	651.7	632.2	610.0	586.1	561.7	536.0	512.4
150°	665.4	664.4	658.9	647.8	634.1	617.5	598.2	577.9	555.8	533.8	511.7
152.5°	644.0	643.8	639.8	630.2	619.3	605.0	588.6	569.8	550.6	530.0	510.2
155°	615.7	617.5	613.8	607.4	597.2	587.1	573.3	558.6	541.1	523.6	507.9
157.5°	591.5	591.5	589.9	584.6	577.3	569.4	557.9	545.5	532.1	517.0	503.7
160°	576.1	576.1	575.1	570.5	564.1	557.7	547.6	537.4	525.5	512.6	501.5
162.5°	561.3	562.1	561.2	558.0	551.6	546.6	538.0	529.3	519.6	508.9	499.3
165°	540.2	541.1	541.1	537.4	533.8	530.0	523.6	517.2	509.8	501.5	495.1
167.5°	520.7	521.8	522.0	519.9	518.3	515.0	510.6	505.6	500.3	495.1	490.8
170°	508.9	510.7	511.7	508.9	507.9	506.1	502.5	499.7	495.1	491.4	488.6
172.5°	499.3	500.4	501.4	500.1	499.2	498.0	495.1	493.1	490.0	487.0	485.7
175°	486.8	488.6	489.6	488.6	488.6	487.7	486.8	485.9	483.2	482.2	481.3
177.5°	479.3	480.8	481.5	481.5	481.5	481.5	480.8	480.8	479.3	478.6	479.3
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1621.0	1617.1	1614.6	1605.9	1598.1	1590.3	1587.9	1588.9	1578.2	1568.0	1563.6
5°	1684.1	1671.9	1660.4	1644.0	1624.6	1603.3	1592.4	1583.9	1562.7	1539.6	1526.2
7.5°	1740.7	1723.3	1701.1	1670.2	1642.0	1608.5	1587.3	1568.4	1537.4	1504.8	1484.9
10°	1775.1	1751.4	1722.9	1685.3	1650.7	1610.0	1581.4	1552.9	1516.5	1477.7	1453.3
12.5°	1804.7	1772.8	1744.8	1696.5	1655.5	1604.6	1570.8	1530.6	1492.2	1446.0	1422.3
15°	1875.3	1816.4	1763.0	1708.3	1658.0	1586.9	1549.3	1495.2	1444.9	1387.8	1360.5
17.5°	1929.8	1863.6	1779.5	1710.1	1651.3	1572.6	1517.3	1452.6	1393.1	1327.9	1290.7
20°	1960.9	1885.0	1794.5	1712.0	1641.6	1551.7	1491.6	1425.5	1355.7	1282.1	1242.1
22.5°	1979.3	1899.6	1810.1	1704.7	1622.2	1534.7	1459.0	1386.6	1315.8	1236.5	1194.5
25°	1985.2	1912.3	1817.7	1698.7	1597.8	1498.9	1407.9	1337.4	1251.8	1177.7	1116.4
27.5°	1956.3	1904.1	1813.0	1687.2	1569.8	1454.1	1352.6	1272.8	1182.5	1102.1	1040.5
30°	1920.8	1890.5	1801.8	1675.5	1547.4	1423.0	1311.3	1220.8	1131.0	1049.6	986.5
32.5°	1866.0	1859.4	1781.5	1659.1	1523.7	1383.7	1268.1	1176.6	1077.1	997.2	937.0
35°	1758.2	1787.2	1738.1	1622.2	1478.8	1327.7	1202.6	1098.2	995.1	918.5	862.1
37.5°	1613.7	1686.0	1673.2	1568.1	1418.4	1266.8	1128.7	1019.5	921.2	844.0	788.6
40°	1514.1	1606.4	1619.7	1526.9	1375.7	1219.6	1073.3	964.6	868.7	798.4	742.4
42.5°	1407.2	1515.0	1551.7	1477.3	1329.0	1170.1	1023.8	911.2	816.3	747.8	698.3
45°	1228.1	1370.8	1437.0	1394.5	1251.3	1088.5	937.9	823.8	737.6	673.3	635.0
47.5°	1060.7	1216.6	1305.6	1290.5	1164.7	1003.5	854.7	745.1	661.2	609.9	575.7
50°	942.2	1102.5	1209.9	1214.8	1102.5	942.8	793.4	690.2	613.1	565.2	537.3
52.5°	839.2	992.2	1109.4	1135.1	1033.0	879.6	738.6	635.9	568.0	523.9	498.9
55°	704.8	834.2	964.1	1011.4	929.5	783.8	653.2	562.8	499.0	468.7	446.8
57.5°	586.0	693.8	813.7	866.1	815.6	690.9	568.5	489.9	438.2	411.6	394.8
60°	523.3	608.3	715.2	777.7	734.0	622.9	516.0	441.3	398.9	375.2	359.4
62.5°	465.0	540.3	630.7	687.9	664.0	559.3	463.6	397.7	361.0	338.7	327.3
65°	383.7	443.1	513.0	565.8	550.0	470.5	392.2	335.7	306.6	289.0	279.9
67.5°	315.9	358.9	407.3	453.6	440.8	384.5	321.6	277.7	256.0	240.7	235.3
70°	273.2	305.9	349.1	386.1	375.8	329.6	279.9	242.2	223.4	210.6	205.2
72.5°	232.4	259.4	292.2	322.5	315.5	277.2	235.7	207.2	192.8	181.0	176.6
75°	175.5	196.1	216.1	236.1	234.3	204.6	180.3	158.4	146.9	137.8	136.0
77.5°	129.5	141.1	154.7	166.6	163.3	146.3	127.2	114.7	106.2	100.1	99.2
80°	98.9	105.6	115.3	123.8	119.6	112.3	97.1	88.0	82.0	75.9	73.4
82.5°	71.8	78.4	84.3	88.9	85.6	78.8	69.5	63.3	59.7	55.5	54.5
85°	37.6	41.3	43.7	44.9	43.7	39.5	35.2	32.8	29.8	28.0	27.3
87.5°	19.6	18.2	17.3	17.7	15.9	15.5	12.9	10.9	10.9	11.2	10.6
90°	24.9	18.4	13.8	11.0	9.2	7.4	3.6	1.0	3.6	7.4	9.2
92.5°	91.8	62.6	41.7	33.1	26.9	22.8	16.2	11.2	16.2	22.8	26.9
95°	212.5	132.5	90.2	68.1	53.4	45.1	35.9	32.2	35.9	45.1	53.4
97.5°	286.4	174.8	121.7	96.6	79.7	67.2	57.4	52.4	57.4	67.2	79.7
100°	301.8	189.6	140.8	115.0	96.6	81.9	73.6	70.8	73.6	81.9	96.6
102.5°	302.6	202.8	157.7	132.0	112.8	98.1	89.8	87.8	89.8	98.1	112.8
105°	307.4	225.5	182.2	156.5	136.2	122.4	116.0	112.3	116.0	122.4	136.2
107.5°	320.0	248.7	206.7	180.8	160.7	148.0	141.7	138.8	141.7	148.0	160.7
110°	330.3	264.1	223.6	196.9	177.6	165.6	160.1	156.5	160.1	165.6	177.6



TEST NUMBER: P331458-927

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	341.4	278.8	239.8	212.4	193.8	182.6	176.3	172.6	176.3	182.6	193.8
115°	358.0	301.8	262.3	237.4	219.0	207.9	202.5	197.9	202.5	207.9	219.0
117.5°	375.7	323.0	286.4	260.6	243.0	233.2	227.7	224.0	227.7	233.2	243.0
120°	387.5	337.7	301.8	276.1	257.7	249.4	243.8	240.2	243.8	249.4	257.7
122.5°	397.8	351.7	318.1	291.5	273.1	264.1	258.6	255.6	258.6	264.1	273.1
125°	414.2	372.7	339.6	313.8	295.4	284.4	278.8	276.1	278.8	284.4	295.4
127.5°	429.4	392.2	360.0	333.5	315.8	303.7	296.0	292.2	296.0	303.7	315.8
130°	438.9	404.0	371.8	346.0	327.6	314.7	305.5	301.8	305.5	314.7	327.6
132.5°	448.5	414.3	383.6	357.8	338.7	325.0	315.1	310.7	315.1	325.0	338.7
135°	461.1	428.8	399.4	373.6	352.4	338.7	327.6	323.9	327.6	338.7	352.4
137.5°	470.6	440.6	411.5	387.6	366.6	351.9	340.9	336.4	340.9	351.9	366.6
140°	475.8	447.3	419.6	395.7	375.5	360.8	349.7	346.0	349.7	360.8	375.5
142.5°	480.2	452.4	425.6	403.1	383.6	368.8	358.5	355.6	358.5	368.8	383.6
145°	485.9	460.1	435.3	415.0	396.6	382.9	373.6	369.9	373.6	382.9	396.6
147.5°	489.0	466.4	443.0	425.0	409.7	397.0	388.2	385.4	388.2	397.0	409.7
150°	490.5	469.4	448.1	431.6	417.8	405.8	398.5	395.7	398.5	405.8	417.8
152.5°	491.2	472.3	453.3	438.2	425.2	414.6	407.3	406.0	407.3	414.6	425.2
155°	492.3	476.7	461.1	447.3	437.1	427.0	421.4	420.6	421.4	427.0	437.1
157.5°	492.3	479.8	466.6	455.0	446.9	438.1	433.6	432.7	433.6	438.1	446.9
160°	492.3	481.3	470.2	460.1	452.7	445.4	441.7	440.8	441.7	445.4	452.7
162.5°	491.6	482.0	472.5	464.5	457.9	452.0	448.4	448.9	448.4	452.0	457.9
165°	489.6	483.2	474.8	469.4	464.7	459.2	457.4	458.3	457.4	459.2	464.7
167.5°	488.3	482.9	476.9	473.4	470.1	466.6	464.9	466.0	464.9	466.6	470.1
170°	486.8	482.2	477.6	474.8	473.0	470.2	469.4	471.2	469.4	470.2	473.0
172.5°	484.6	481.5	478.3	476.3	475.2	472.5	473.0	474.1	473.0	472.5	475.2
175°	482.2	480.4	478.6	477.6	477.6	475.8	476.7	477.6	476.7	475.8	477.6
177.5°	480.8	479.3	478.6	478.6	478.6	477.1	477.8	479.3	477.8	477.1	478.6
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



TEST NUMBER: P331458-927

CATALOG NUMBER: SA2XXDIP-C1005D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1558.8	1555.8	1545.6	1540.3	1531.6	1523.3	1518.0	1520.4	1522.3	1521.4	1519.9
5°	1514.1	1502.5	1484.9	1469.7	1458.8	1438.8	1430.3	1426.1	1422.4	1418.2	1413.9
7.5°	1460.9	1442.7	1417.5	1395.8	1375.4	1350.5	1336.3	1327.9	1319.1	1309.5	1301.0
10°	1423.0	1397.5	1370.8	1340.5	1316.2	1293.7	1273.7	1260.3	1248.2	1236.7	1228.1
12.5°	1383.2	1353.8	1320.8	1279.3	1252.5	1220.4	1217.3	1193.8	1174.8	1167.7	1157.7
15°	1319.8	1278.5	1236.7	1187.5	1166.3	1137.1	1118.9	1100.7	1084.3	1072.7	1069.7
17.5°	1247.8	1194.4	1152.7	1117.4	1082.6	1052.7	1035.9	1021.4	1007.9	992.4	990.4
20°	1192.9	1146.8	1101.3	1070.3	1034.5	1004.1	983.5	968.9	957.4	948.2	940.4
22.5°	1141.0	1090.4	1048.8	1014.9	979.6	955.1	938.8	924.7	915.1	905.1	897.6
25°	1057.6	1018.1	972.6	934.3	905.1	889.4	876.0	863.9	857.9	851.1	842.6
27.5°	984.6	940.7	898.1	868.5	842.9	828.9	819.4	811.2	805.5	801.6	796.8
30°	933.1	888.7	855.4	826.2	805.0	791.1	785.0	780.1	773.4	771.0	768.6
32.5°	883.5	843.6	815.1	789.8	769.5	760.4	754.9	750.5	745.3	742.8	738.0
35°	813.5	780.1	752.2	738.2	721.8	713.9	709.7	703.6	698.8	696.3	695.7
37.5°	747.6	718.6	700.2	682.2	675.3	670.5	664.6	660.5	659.1	658.7	658.1
40°	704.8	681.1	664.8	650.2	647.1	639.8	635.0	631.4	631.4	632.0	631.4
42.5°	666.0	644.8	630.3	617.7	614.1	609.7	604.9	604.7	605.6	607.7	605.6
45°	607.1	591.9	581.6	575.5	568.9	564.6	564.0	565.8	566.4	567.0	568.9
47.5°	552.9	542.9	533.5	526.8	523.9	523.2	522.4	525.6	528.5	529.7	532.4
50°	520.9	509.4	501.5	497.2	494.8	493.5	494.8	498.4	500.8	503.9	505.7
52.5°	485.0	476.8	471.3	468.1	467.1	467.9	468.1	472.2	476.1	477.2	478.0
55°	435.3	429.2	428.0	422.6	424.9	424.4	427.4	429.8	433.5	437.1	437.7
57.5°	385.7	380.9	377.6	378.1	378.8	381.5	384.0	388.3	392.2	396.1	396.4
60°	352.8	350.3	348.5	348.5	349.7	353.3	356.3	360.6	363.1	365.4	367.3
62.5°	322.6	320.2	318.4	319.3	322.5	324.6	328.2	330.5	333.0	335.3	336.2
65°	275.0	273.8	275.6	276.9	277.4	280.5	284.7	286.5	289.0	290.2	294.5
67.5°	231.2	231.4	231.2	232.9	236.4	237.1	241.1	245.4	245.9	248.2	251.0
70°	201.5	202.8	204.0	205.2	208.3	209.5	212.5	214.3	216.7	218.6	220.4
72.5°	174.4	174.6	175.8	175.5	178.1	180.8	183.3	185.1	187.6	189.9	191.7
75°	134.2	134.2	135.4	136.0	139.0	142.0	141.5	142.7	145.1	147.5	148.8
77.5°	98.0	96.6	98.0	98.6	99.6	102.1	102.6	104.3	107.1	106.2	107.6
80°	74.7	72.9	74.7	75.3	75.3	78.3	78.3	79.5	81.4	79.5	81.4
82.5°	53.3	52.4	53.8	53.9	54.9	55.0	56.0	56.2	58.1	57.2	58.1
85°	26.7	26.1	26.7	26.1	26.7	27.3	27.3	26.7	26.7	28.0	26.1
87.5°	10.5	10.5	10.9	12.3	12.9	12.6	11.9	11.7	11.3	10.8	10.9
90°	11.0	13.8	18.4	24.9	30.3	31.3	30.3	29.5	27.6	29.5	30.3
92.5°	33.1	41.7	62.6	91.8	118.0	119.6	101.1	80.2	68.8	61.1	55.4
95°	68.1	90.2	132.5	212.5	319.3	360.8	315.7	241.1	185.0	146.3	126.0
97.5°	96.6	121.7	174.8	286.4	463.8	615.8	646.0	562.6	460.3	360.8	294.3
100°	115.0	140.8	189.6	301.8	500.6	727.0	859.5	840.2	726.1	600.0	488.6
102.5°	132.0	157.7	202.8	302.6	486.6	730.7	939.1	1022.1	996.2	904.0	786.1
105°	156.5	182.2	225.5	307.4	459.2	681.9	926.7	1118.1	1222.1	1234.1	1203.7
107.5°	180.8	206.7	248.7	320.0	445.6	629.6	845.9	1048.9	1205.5	1301.2	1345.8
110°	196.9	223.6	264.1	330.3	442.7	604.6	795.1	989.3	1154.0	1271.8	1347.3



TEST NUMBER: P331458-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	212.4	239.8	278.8	341.4	443.4	588.4	759.8	934.8	1092.9	1218.8	1305.3
115°	237.4	262.3	301.8	358.0	447.3	570.5	716.0	867.8	1009.6	1130.0	1224.9
117.5°	260.6	286.4	323.0	375.7	453.8	561.9	688.3	817.4	941.8	1051.1	1140.0
120°	276.1	301.8	337.7	387.5	458.3	556.7	673.6	792.3	906.4	1004.0	1087.7
122.5°	291.5	318.1	351.7	397.8	463.4	553.8	661.1	772.5	877.0	969.4	1045.0
125°	313.8	339.6	372.7	414.2	471.2	548.5	643.3	743.5	838.4	919.3	988.3
127.5°	333.5	360.0	392.2	429.4	479.1	545.3	626.7	715.0	800.8	877.2	940.9
130°	346.0	371.8	404.0	438.9	485.0	543.8	615.7	696.6	775.8	848.5	909.2
132.5°	357.8	383.6	414.3	448.5	490.8	543.1	606.8	679.0	752.3	819.0	876.1
135°	373.6	399.4	428.8	461.1	497.9	542.0	594.5	654.3	715.0	775.8	827.3
137.5°	387.6	411.5	440.6	470.6	504.1	541.9	585.8	634.6	685.4	733.6	778.6
140°	395.7	419.6	447.3	475.8	507.1	541.1	580.7	622.1	666.3	708.6	749.1
142.5°	403.1	425.6	452.4	480.2	509.3	541.1	575.5	611.8	649.4	685.8	719.6
145°	415.0	435.3	460.1	485.9	511.7	539.2	568.7	597.2	627.6	656.2	682.9
147.5°	425.0	443.0	466.4	489.0	512.4	536.0	561.7	586.1	610.0	632.2	651.7
150°	431.6	448.1	469.4	490.5	511.7	533.8	555.8	577.9	598.2	617.5	634.1
152.5°	438.2	453.3	472.3	491.2	510.2	530.0	550.6	569.8	588.6	605.0	619.3
155°	447.3	461.1	476.7	492.3	507.9	523.6	541.1	558.6	573.3	587.1	597.2
157.5°	455.0	466.6	479.8	492.3	503.7	517.0	532.1	545.5	557.9	569.4	577.3
160°	460.1	470.2	481.3	492.3	501.5	512.6	525.5	537.4	547.6	557.7	564.1
162.5°	464.5	472.5	482.0	491.6	499.3	508.9	519.6	529.3	538.0	546.6	551.6
165°	469.4	474.8	483.2	489.6	495.1	501.5	509.8	517.2	523.6	530.0	533.8
167.5°	473.4	476.9	482.9	488.3	490.8	495.1	500.3	505.6	510.6	515.0	518.3
170°	474.8	477.6	482.2	486.8	488.6	491.4	495.1	499.7	502.5	506.1	507.9
172.5°	476.3	478.3	481.5	484.6	485.7	487.0	490.0	493.1	495.1	498.0	499.2
175°	477.6	478.6	480.4	482.2	481.3	482.2	483.2	485.9	486.8	487.7	488.6
177.5°	478.6	478.6	479.3	480.8	479.3	478.6	479.3	480.8	480.8	481.5	481.5
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



TEST NUMBER: P331458-927

CATALOG NUMBER: SA2XXDIP-C1005D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1515.0	1514.1	1514.1	1509.7	1514.1	1514.1	1515.0	1519.9	1521.4	1522.3	1520.4
5°	1405.4	1403.6	1400.6	1403.6	1400.6	1403.6	1405.4	1413.9	1418.2	1422.4	1426.1
7.5°	1297.0	1289.7	1288.6	1281.4	1288.6	1289.7	1297.0	1301.0	1309.5	1319.1	1327.9
10°	1217.8	1213.0	1212.4	1200.8	1212.4	1213.0	1217.8	1228.1	1236.7	1248.2	1260.3
12.5°	1157.6	1146.0	1148.3	1141.5	1148.3	1146.0	1157.6	1157.7	1167.7	1174.8	1193.8
15°	1053.3	1053.3	1050.9	1040.5	1050.9	1053.3	1053.3	1069.7	1072.7	1084.3	1100.7
17.5°	978.4	977.2	971.4	974.2	971.4	977.2	978.4	990.4	992.4	1007.9	1021.4
20°	933.7	930.1	922.8	922.8	922.8	930.1	933.7	940.4	948.2	957.4	968.9
22.5°	891.4	891.2	883.4	885.9	883.4	891.2	891.4	897.6	905.1	915.1	924.7
25°	842.0	837.2	833.5	835.4	833.5	837.2	842.0	842.6	851.1	857.9	863.9
27.5°	795.2	792.5	792.3	787.3	792.3	792.5	795.2	796.8	801.6	805.5	811.2
30°	767.9	761.9	763.1	760.1	763.1	761.9	767.9	768.6	771.0	773.4	780.1
32.5°	736.9	734.7	733.5	730.9	733.5	734.7	736.9	738.0	742.8	745.3	750.5
35°	694.5	695.1	692.1	693.3	692.1	695.1	694.5	695.7	696.3	698.8	703.6
37.5°	657.5	659.4	658.0	658.3	658.0	659.4	657.5	658.1	658.7	659.1	660.5
40°	633.2	633.2	633.2	635.0	633.2	633.2	633.2	631.4	632.0	631.4	631.4
42.5°	609.9	609.0	607.9	607.8	607.9	609.0	609.9	605.6	607.7	605.6	604.7
45°	570.1	571.9	572.5	569.4	572.5	571.9	570.1	568.9	567.0	566.4	565.8
47.5°	534.0	534.2	534.0	536.7	534.0	534.2	534.0	532.4	529.7	528.5	525.6
50°	508.7	507.6	508.7	507.6	508.7	507.6	508.7	505.7	503.9	500.8	498.4
52.5°	482.0	482.3	481.6	481.3	481.6	482.3	482.0	478.0	477.2	476.1	472.2
55°	440.1	441.3	440.8	440.8	440.8	441.3	440.1	437.7	437.1	433.5	429.8
57.5°	396.8	397.9	398.7	396.1	398.7	397.9	396.8	396.4	396.1	392.2	388.3
60°	366.7	369.7	369.1	367.9	369.1	369.7	366.7	367.3	365.4	363.1	360.6
62.5°	339.0	340.1	340.0	339.8	340.0	340.1	339.0	336.2	335.3	333.0	330.5
65°	296.3	297.5	295.6	297.5	295.6	297.5	296.3	294.5	290.2	289.0	286.5
67.5°	250.3	250.6	251.9	252.8	251.9	250.6	250.3	251.0	248.2	245.9	245.4
70°	221.6	221.0	222.8	224.7	222.8	221.0	221.6	220.4	218.6	216.7	214.3
72.5°	191.5	192.8	192.2	193.5	192.2	192.8	191.5	191.7	189.9	187.6	185.1
75°	147.5	149.3	148.8	150.6	148.8	149.3	147.5	148.8	147.5	145.1	142.7
77.5°	106.6	106.9	106.6	107.6	106.6	106.9	106.6	107.6	106.2	107.1	104.3
80°	81.4	80.2	78.9	81.4	78.9	80.2	81.4	81.4	79.5	81.4	79.5
82.5°	56.6	57.3	56.1	56.1	56.1	57.3	56.6	58.1	57.2	58.1	56.2
85°	26.1	25.5	24.3	24.3	24.3	25.5	26.1	26.1	28.0	26.7	26.7
87.5°	10.9	10.5	10.5	10.0	10.5	10.5	10.9	10.9	10.8	11.3	11.7
90°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	29.5	27.6	29.5
92.5°	54.7	51.7	52.4	51.0	52.4	51.7	54.7	55.4	61.1	68.8	80.2
95°	114.1	106.8	104.0	104.9	104.0	106.8	114.1	126.0	146.3	185.0	241.1
97.5°	250.3	227.7	214.2	206.5	214.2	227.7	250.3	294.3	360.8	460.3	562.6
100°	412.3	372.7	346.0	329.5	346.0	372.7	412.3	488.6	600.0	726.1	840.2
102.5°	703.1	635.6	602.2	579.8	602.2	635.6	703.1	786.1	904.0	996.2	1022.1
105°	1146.6	1089.6	1050.0	1037.1	1050.0	1089.6	1146.6	1203.7	1234.1	1222.1	1118.1
107.5°	1353.0	1349.8	1341.9	1324.8	1341.9	1349.8	1353.0	1345.8	1301.2	1205.5	1048.9
110°	1386.8	1404.3	1412.6	1411.7	1412.6	1404.3	1386.8	1347.3	1271.8	1154.0	989.3



TEST NUMBER: P331458-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1360.3	1389.6	1405.3	1410.2	1405.3	1389.6	1360.3	1305.3	1218.8	1092.9	934.8
115°	1290.2	1332.5	1356.5	1364.8	1356.5	1332.5	1290.2	1224.9	1130.0	1009.6	867.8
117.5°	1206.7	1251.3	1276.6	1283.6	1276.6	1251.3	1206.7	1140.0	1051.1	941.8	817.4
120°	1152.1	1195.4	1222.1	1231.3	1222.1	1195.4	1152.1	1087.7	1004.0	906.4	792.3
122.5°	1102.8	1145.3	1169.1	1176.8	1169.1	1145.3	1102.8	1045.0	969.4	877.0	772.5
125°	1041.7	1076.7	1099.7	1107.1	1099.7	1076.7	1041.7	988.3	919.3	838.4	743.5
127.5°	987.5	1020.2	1040.1	1046.0	1040.1	1020.2	987.5	940.9	877.2	800.8	715.0
130°	954.3	985.6	1004.0	1011.4	1004.0	985.6	954.3	909.2	848.5	775.8	696.6
132.5°	920.4	951.7	968.7	975.3	968.7	951.7	920.4	876.1	819.0	752.3	679.0
135°	866.9	897.2	913.8	917.5	913.8	897.2	866.9	827.3	775.8	715.0	654.3
137.5°	814.6	840.7	855.3	860.8	855.3	840.7	814.6	778.6	733.6	685.4	634.6
140°	778.6	802.5	816.3	821.8	816.3	802.5	778.6	749.1	708.6	666.3	622.1
142.5°	747.6	769.4	781.6	782.8	781.6	769.4	747.6	719.6	685.8	649.4	611.8
145°	704.9	720.6	729.8	732.5	729.8	720.6	704.9	682.9	656.2	627.6	597.2
147.5°	669.9	682.5	688.7	690.4	688.7	682.5	669.9	651.7	632.2	610.0	586.1
150°	647.8	658.9	664.4	665.4	664.4	658.9	647.8	634.1	617.5	598.2	577.9
152.5°	630.2	639.8	643.8	644.0	643.8	639.8	630.2	619.3	605.0	588.6	569.8
155°	607.4	613.8	617.5	615.7	617.5	613.8	607.4	597.2	587.1	573.3	558.6
157.5°	584.6	589.9	591.5	591.5	591.5	589.9	584.6	577.3	569.4	557.9	545.5
160°	570.5	575.1	576.1	576.1	576.1	575.1	570.5	564.1	557.7	547.6	537.4
162.5°	558.0	561.2	562.1	561.3	562.1	561.2	558.0	551.6	546.6	538.0	529.3
165°	537.4	541.1	541.1	540.2	541.1	541.1	537.4	533.8	530.0	523.6	517.2
167.5°	519.9	522.0	521.8	520.7	521.8	522.0	519.9	518.3	515.0	510.6	505.6
170°	508.9	511.7	510.7	508.9	510.7	511.7	508.9	507.9	506.1	502.5	499.7
172.5°	500.1	501.4	500.4	499.3	500.4	501.4	500.1	499.2	498.0	495.1	493.1
175°	488.6	489.6	488.6	486.8	488.6	489.6	488.6	488.6	487.7	486.8	485.9
177.5°	481.5	481.5	480.8	479.3	480.8	481.5	481.5	481.5	481.5	480.8	480.8
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1518.0	1523.3	1531.6	1540.3	1545.6	1555.8	1558.8	1563.6	1568.0	1578.2	1588.9
5°	1430.3	1438.8	1458.8	1469.7	1484.9	1502.5	1514.1	1526.2	1539.6	1562.7	1583.9
7.5°	1336.3	1350.5	1375.4	1395.8	1417.5	1442.7	1460.9	1484.9	1504.8	1537.4	1568.4
10°	1273.7	1293.7	1316.2	1340.5	1370.8	1397.5	1423.0	1453.3	1477.7	1516.5	1552.9
12.5°	1217.3	1220.4	1252.5	1279.3	1320.8	1353.8	1383.2	1422.3	1446.0	1492.2	1530.6
15°	1118.9	1137.1	1166.3	1187.5	1236.7	1278.5	1319.8	1360.5	1387.8	1444.9	1495.2
17.5°	1035.9	1052.7	1082.6	1117.4	1152.7	1194.4	1247.8	1290.7	1327.9	1393.1	1452.6
20°	983.5	1004.1	1034.5	1070.3	1101.3	1146.8	1192.9	1242.1	1282.1	1355.7	1425.5
22.5°	938.8	955.1	979.6	1014.9	1048.8	1090.4	1141.0	1194.5	1236.5	1315.8	1386.6
25°	876.0	889.4	905.1	934.3	972.6	1018.1	1057.6	1116.4	1177.7	1251.8	1337.4
27.5°	819.4	828.9	842.9	868.5	898.1	940.7	984.6	1040.5	1102.1	1182.5	1272.8
30°	785.0	791.1	805.0	826.2	855.4	888.7	933.1	986.5	1049.6	1131.0	1220.8
32.5°	754.9	760.4	769.5	789.8	815.1	843.6	883.5	937.0	997.2	1077.1	1176.6
35°	709.7	713.9	721.8	738.2	752.2	780.1	813.5	862.1	918.5	995.1	1098.2
37.5°	664.6	670.5	675.3	682.2	700.2	718.6	747.6	788.6	844.0	921.2	1019.5
40°	635.0	639.8	647.1	650.2	664.8	681.1	704.8	742.4	798.4	868.7	964.6
42.5°	604.9	609.7	614.1	617.7	630.3	644.8	666.0	698.3	747.8	816.3	911.2
45°	564.0	564.6	568.9	575.5	581.6	591.9	607.1	635.0	673.3	737.6	823.8
47.5°	522.4	523.2	523.9	526.8	533.5	542.9	552.9	575.7	609.9	661.2	745.1
50°	494.8	493.5	494.8	497.2	501.5	509.4	520.9	537.3	565.2	613.1	690.2
52.5°	468.1	467.9	467.1	468.1	471.3	476.8	485.0	498.9	523.9	568.0	635.9
55°	427.4	424.4	424.9	422.6	428.0	429.2	435.3	446.8	468.7	499.0	562.8
57.5°	384.0	381.5	378.8	378.1	377.6	380.9	385.7	394.8	411.6	438.2	489.9
60°	356.3	353.3	349.7	348.5	348.5	350.3	352.8	359.4	375.2	398.9	441.3
62.5°	328.2	324.6	322.5	319.3	318.4	320.2	322.6	327.3	338.7	361.0	397.7
65°	284.7	280.5	277.4	276.9	275.6	273.8	275.0	279.9	289.0	306.6	335.7
67.5°	241.1	237.1	236.4	232.9	231.2	231.4	231.2	235.3	240.7	256.0	277.7
70°	212.5	209.5	208.3	205.2	204.0	202.8	201.5	205.2	210.6	223.4	242.2
72.5°	183.3	180.8	178.1	175.5	175.8	174.6	174.4	176.6	181.0	192.8	207.2
75°	141.5	142.0	139.0	136.0	135.4	134.2	134.2	136.0	137.8	146.9	158.4
77.5°	102.6	102.1	99.6	98.6	98.0	96.6	98.0	99.2	100.1	106.2	114.7
80°	78.3	78.3	75.3	75.3	74.7	72.9	74.7	73.4	75.9	82.0	88.0
82.5°	56.0	55.0	54.9	53.9	53.8	52.4	53.3	54.5	55.5	59.7	63.3
85°	27.3	27.3	26.7	26.1	26.7	26.1	26.7	27.3	28.0	29.8	32.8
87.5°	11.9	12.6	12.9	12.3	10.9	10.5	10.5	10.6	11.2	10.9	10.9
90°	30.3	31.3	30.3	24.9	18.4	13.8	11.0	9.2	7.4	3.6	1.0
92.5°	101.1	119.6	118.0	91.8	62.6	41.7	33.1	26.9	22.8	16.2	11.2
95°	315.7	360.8	319.3	212.5	132.5	90.2	68.1	53.4	45.1	35.9	32.2
97.5°	646.0	615.8	463.8	286.4	174.8	121.7	96.6	79.7	67.2	57.4	52.4
100°	859.5	727.0	500.6	301.8	189.6	140.8	115.0	96.6	81.9	73.6	70.8
102.5°	939.1	730.7	486.6	302.6	202.8	157.7	132.0	112.8	98.1	89.8	87.8
105°	926.7	681.9	459.2	307.4	225.5	182.2	156.5	136.2	122.4	116.0	112.3
107.5°	845.9	629.6	445.6	320.0	248.7	206.7	180.8	160.7	148.0	141.7	138.8
110°	795.1	604.6	442.7	330.3	264.1	223.6	196.9	177.6	165.6	160.1	156.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	759.8	588.4	443.4	341.4	278.8	239.8	212.4	193.8	182.6	176.3	172.6
115°	716.0	570.5	447.3	358.0	301.8	262.3	237.4	219.0	207.9	202.5	197.9
117.5°	688.3	561.9	453.8	375.7	323.0	286.4	260.6	243.0	233.2	227.7	224.0
120°	673.6	556.7	458.3	387.5	337.7	301.8	276.1	257.7	249.4	243.8	240.2
122.5°	661.1	553.8	463.4	397.8	351.7	318.1	291.5	273.1	264.1	258.6	255.6
125°	643.3	548.5	471.2	414.2	372.7	339.6	313.8	295.4	284.4	278.8	276.1
127.5°	626.7	545.3	479.1	429.4	392.2	360.0	333.5	315.8	303.7	296.0	292.2
130°	615.7	543.8	485.0	438.9	404.0	371.8	346.0	327.6	314.7	305.5	301.8
132.5°	606.8	543.1	490.8	448.5	414.3	383.6	357.8	338.7	325.0	315.1	310.7
135°	594.5	542.0	497.9	461.1	428.8	399.4	373.6	352.4	338.7	327.6	323.9
137.5°	585.8	541.9	504.1	470.6	440.6	411.5	387.6	366.6	351.9	340.9	336.4
140°	580.7	541.1	507.1	475.8	447.3	419.6	395.7	375.5	360.8	349.7	346.0
142.5°	575.5	541.1	509.3	480.2	452.4	425.6	403.1	383.6	368.8	358.5	355.6
145°	568.7	539.2	511.7	485.9	460.1	435.3	415.0	396.6	382.9	373.6	369.9
147.5°	561.7	536.0	512.4	489.0	466.4	443.0	425.0	409.7	397.0	388.2	385.4
150°	555.8	533.8	511.7	490.5	469.4	448.1	431.6	417.8	405.8	398.5	395.7
152.5°	550.6	530.0	510.2	491.2	472.3	453.3	438.2	425.2	414.6	407.3	406.0
155°	541.1	523.6	507.9	492.3	476.7	461.1	447.3	437.1	427.0	421.4	420.6
157.5°	532.1	517.0	503.7	492.3	479.8	466.6	455.0	446.9	438.1	433.6	432.7
160°	525.5	512.6	501.5	492.3	481.3	470.2	460.1	452.7	445.4	441.7	440.8
162.5°	519.6	508.9	499.3	491.6	482.0	472.5	464.5	457.9	452.0	448.4	448.9
165°	509.8	501.5	495.1	489.6	483.2	474.8	469.4	464.7	459.2	457.4	458.3
167.5°	500.3	495.1	490.8	488.3	482.9	476.9	473.4	470.1	466.6	464.9	466.0
170°	495.1	491.4	488.6	486.8	482.2	477.6	474.8	473.0	470.2	469.4	471.2
172.5°	490.0	487.0	485.7	484.6	481.5	478.3	476.3	475.2	472.5	473.0	474.1
175°	483.2	482.2	481.3	482.2	480.4	478.6	477.6	477.6	475.8	476.7	477.6
177.5°	479.3	478.6	479.3	480.8	479.3	478.6	478.6	478.6	477.1	477.8	479.3
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



TEST NUMBER: P331458-927

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1587.9	1590.3	1598.1	1605.9	1614.6	1617.1	1621.0	1617.6	1616.5	1625.8	1632.6
5°	1592.4	1603.3	1624.6	1644.0	1660.4	1671.9	1684.1	1688.9	1698.0	1710.8	1726.6
7.5°	1587.3	1608.5	1642.0	1670.2	1701.1	1723.3	1740.7	1755.5	1773.5	1797.6	1823.9
10°	1581.4	1610.0	1650.7	1685.3	1722.9	1751.4	1775.1	1798.2	1825.0	1858.3	1892.9
12.5°	1570.8	1604.6	1655.5	1696.5	1744.8	1772.8	1804.7	1854.6	1883.2	1929.7	1978.4
15°	1549.3	1586.9	1658.0	1708.3	1763.0	1816.4	1875.3	1922.6	1970.0	1997.3	2065.9
17.5°	1517.3	1572.6	1651.3	1710.1	1779.5	1863.6	1929.8	1983.5	2038.1	2082.4	2116.8
20°	1491.6	1551.7	1641.6	1712.0	1794.5	1885.0	1960.9	2015.5	2062.9	2099.9	2121.1
22.5°	1459.0	1534.7	1622.2	1704.7	1810.1	1899.6	1979.3	2022.4	2061.9	2080.0	2088.1
25°	1407.9	1498.9	1597.8	1698.7	1817.7	1912.3	1985.2	2011.3	2022.8	2005.3	1976.1
27.5°	1352.6	1454.1	1569.8	1687.2	1813.0	1904.1	1956.3	1952.2	1932.6	1875.7	1830.1
30°	1311.3	1423.0	1547.4	1675.5	1801.8	1890.5	1920.8	1890.5	1846.2	1782.4	1717.5
32.5°	1268.1	1383.7	1523.7	1659.1	1781.5	1859.4	1866.0	1813.8	1745.2	1672.7	1591.7
35°	1202.6	1327.7	1478.8	1622.2	1738.1	1787.2	1758.2	1665.9	1584.5	1485.6	1375.1
37.5°	1128.7	1266.8	1418.4	1568.1	1673.2	1686.0	1613.7	1516.5	1401.8	1285.5	1155.4
40°	1073.3	1219.6	1375.7	1526.9	1619.7	1606.4	1514.1	1407.2	1270.7	1128.5	1007.7
42.5°	1023.8	1170.1	1329.0	1477.3	1551.7	1515.0	1407.2	1276.1	1129.3	995.5	884.9
45°	937.9	1088.5	1251.3	1394.5	1437.0	1370.8	1228.1	1082.4	937.9	826.2	738.9
47.5°	854.7	1003.5	1164.7	1290.5	1305.6	1216.6	1060.7	910.8	786.6	695.6	633.9
50°	793.4	942.8	1102.5	1214.8	1209.9	1102.5	942.2	799.5	695.7	622.3	581.0
52.5°	738.6	879.6	1033.0	1135.1	1109.4	992.2	839.2	712.6	627.2	569.8	532.4
55°	653.2	783.8	929.5	1011.4	964.1	834.2	704.8	602.9	539.7	496.6	467.5
57.5°	568.5	690.9	815.6	866.1	813.7	693.8	586.0	512.0	464.5	432.6	413.7
60°	516.0	622.9	734.0	777.7	715.2	608.3	523.3	457.2	418.9	392.8	375.8
62.5°	463.6	559.3	664.0	687.9	630.7	540.3	465.0	410.0	378.6	355.4	339.4
65°	392.2	470.5	550.0	565.8	513.0	443.1	383.7	347.8	320.0	302.9	290.2
67.5°	321.6	384.5	440.8	453.6	407.3	358.9	315.9	284.7	265.8	251.7	240.9
70°	279.9	329.6	375.8	386.1	349.1	305.9	273.2	248.3	231.3	219.2	208.8
72.5°	235.7	277.2	315.5	322.5	292.2	259.4	232.4	212.9	197.8	190.0	180.2
75°	180.3	204.6	234.3	236.1	216.1	196.1	175.5	162.7	154.8	145.1	140.2
77.5°	127.2	146.3	163.3	166.6	154.7	141.1	129.5	119.5	112.8	108.3	103.8
80°	97.1	112.3	119.6	123.8	115.3	105.6	98.9	92.3	88.0	85.0	82.0
82.5°	69.5	78.8	85.6	88.9	84.3	78.4	71.8	68.0	64.7	62.2	61.1
85°	35.2	39.5	43.7	44.9	43.7	41.3	37.6	37.6	35.8	35.2	35.2
87.5°	12.9	15.5	15.9	17.7	17.3	18.2	19.6	20.1	19.9	19.2	18.5
90°	3.6	7.4	9.2	11.0	13.8	18.4	24.9	30.3	31.3	30.3	29.5
92.5°	16.2	22.8	26.9	33.1	41.7	62.6	91.8	118.0	119.6	101.1	80.2
95°	35.9	45.1	53.4	68.1	90.2	132.5	212.5	319.3	360.8	315.7	241.1
97.5°	57.4	67.2	79.7	96.6	121.7	174.8	286.4	463.8	615.8	646.0	562.6
100°	73.6	81.9	96.6	115.0	140.8	189.6	301.8	500.6	727.0	859.5	840.2
102.5°	89.8	98.1	112.8	132.0	157.7	202.8	302.6	486.6	730.7	939.1	1022.1
105°	116.0	122.4	136.2	156.5	182.2	225.5	307.4	459.2	681.9	926.7	1118.1
107.5°	141.7	148.0	160.7	180.8	206.7	248.7	320.0	445.6	629.6	845.9	1048.9
110°	160.1	165.6	177.6	196.9	223.6	264.1	330.3	442.7	604.6	795.1	989.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	176.3	182.6	193.8	212.4	239.8	278.8	341.4	443.4	588.4	759.8	934.8
115°	202.5	207.9	219.0	237.4	262.3	301.8	358.0	447.3	570.5	716.0	867.8
117.5°	227.7	233.2	243.0	260.6	286.4	323.0	375.7	453.8	561.9	688.3	817.4
120°	243.8	249.4	257.7	276.1	301.8	337.7	387.5	458.3	556.7	673.6	792.3
122.5°	258.6	264.1	273.1	291.5	318.1	351.7	397.8	463.4	553.8	661.1	772.5
125°	278.8	284.4	295.4	313.8	339.6	372.7	414.2	471.2	548.5	643.3	743.5
127.5°	296.0	303.7	315.8	333.5	360.0	392.2	429.4	479.1	545.3	626.7	715.0
130°	305.5	314.7	327.6	346.0	371.8	404.0	438.9	485.0	543.8	615.7	696.6
132.5°	315.1	325.0	338.7	357.8	383.6	414.3	448.5	490.8	543.1	606.8	679.0
135°	327.6	338.7	352.4	373.6	399.4	428.8	461.1	497.9	542.0	594.5	654.3
137.5°	340.9	351.9	366.6	387.6	411.5	440.6	470.6	504.1	541.9	585.8	634.6
140°	349.7	360.8	375.5	395.7	419.6	447.3	475.8	507.1	541.1	580.7	622.1
142.5°	358.5	368.8	383.6	403.1	425.6	452.4	480.2	509.3	541.1	575.5	611.8
145°	373.6	382.9	396.6	415.0	435.3	460.1	485.9	511.7	539.2	568.7	597.2
147.5°	388.2	397.0	409.7	425.0	443.0	466.4	489.0	512.4	536.0	561.7	586.1
150°	398.5	405.8	417.8	431.6	448.1	469.4	490.5	511.7	533.8	555.8	577.9
152.5°	407.3	414.6	425.2	438.2	453.3	472.3	491.2	510.2	530.0	550.6	569.8
155°	421.4	427.0	437.1	447.3	461.1	476.7	492.3	507.9	523.6	541.1	558.6
157.5°	433.6	438.1	446.9	455.0	466.6	479.8	492.3	503.7	517.0	532.1	545.5
160°	441.7	445.4	452.7	460.1	470.2	481.3	492.3	501.5	512.6	525.5	537.4
162.5°	448.4	452.0	457.9	464.5	472.5	482.0	491.6	499.3	508.9	519.6	529.3
165°	457.4	459.2	464.7	469.4	474.8	483.2	489.6	495.1	501.5	509.8	517.2
167.5°	464.9	466.6	470.1	473.4	476.9	482.9	488.3	490.8	495.1	500.3	505.6
170°	469.4	470.2	473.0	474.8	477.6	482.2	486.8	488.6	491.4	495.1	499.7
172.5°	473.0	472.5	475.2	476.3	478.3	481.5	484.6	485.7	487.0	490.0	493.1
175°	476.7	475.8	477.6	477.6	478.6	480.4	482.2	481.3	482.2	483.2	485.9
177.5°	477.8	477.1	478.6	478.6	478.6	479.3	480.8	479.3	478.6	479.3	480.8
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1638.4	1645.2	1645.2	1646.2	1653.9	1653.0	1652.5
5°	1743.6	1753.9	1755.1	1766.0	1773.3	1770.8	1764.2
7.5°	1842.8	1861.9	1876.5	1884.7	1894.3	1900.2	1897.5
10°	1921.4	1949.4	1966.4	1977.9	1991.9	2002.2	1998.5
12.5°	1992.8	2026.1	2049.5	2069.2	2071.0	2084.2	2075.3
15°	2104.2	2139.4	2143.0	2157.6	2169.2	2167.9	2168.5
17.5°	2141.0	2152.3	2154.6	2154.9	2155.1	2150.8	2141.6
20°	2127.9	2123.6	2113.3	2105.4	2091.4	2089.6	2077.5
22.5°	2065.7	2052.2	2026.3	2009.2	1987.5	1981.8	1978.4
25°	1943.3	1913.5	1872.2	1832.8	1821.9	1800.6	1806.7
27.5°	1775.4	1729.0	1684.3	1652.3	1623.3	1591.4	1600.5
30°	1657.3	1605.1	1542.0	1493.4	1462.4	1432.1	1426.6
32.5°	1516.5	1440.0	1369.6	1326.8	1279.4	1260.2	1239.2
35°	1273.7	1199.0	1129.2	1069.1	1034.5	1007.7	983.5
37.5°	1055.3	969.3	912.9	864.3	839.2	823.9	827.8
40°	919.7	844.5	803.2	766.1	743.1	732.1	734.6
42.5°	810.0	753.6	719.6	694.3	678.0	671.9	670.5
45°	685.4	653.9	625.9	611.3	603.5	596.8	592.6
47.5°	600.4	574.6	558.9	550.2	543.4	536.5	536.4
50°	549.4	532.4	521.5	512.4	506.9	502.1	506.3
52.5°	510.6	495.0	484.1	475.9	473.9	469.5	469.4
55°	452.9	440.8	432.8	425.6	421.9	419.5	416.5
57.5°	400.4	388.9	381.6	377.0	370.1	367.7	366.7
60°	363.1	353.9	346.7	340.6	337.5	332.7	332.7
62.5°	328.5	319.5	312.7	308.0	303.1	301.1	301.6
65°	278.7	271.4	264.7	259.8	258.6	255.0	256.2
67.5°	232.7	227.9	220.9	218.2	215.9	214.0	212.5
70°	202.2	197.3	193.7	190.0	188.2	188.2	188.2
72.5°	176.4	170.6	168.4	163.8	164.9	163.0	161.0
75°	136.6	132.9	131.1	129.3	126.3	126.3	126.3
77.5°	100.5	99.4	97.3	95.3	94.6	94.0	94.2
80°	77.7	77.1	75.9	75.9	74.7	74.1	72.9
82.5°	59.7	58.1	57.4	57.0	56.7	56.6	56.3
85°	34.0	32.8	32.8	33.4	32.2	32.2	32.8
87.5°	18.6	19.0	18.7	18.7	19.2	18.7	18.7
90°	27.6	29.5	30.3	30.3	30.3	30.3	30.3
92.5°	68.8	61.1	55.4	54.7	51.7	52.4	51.0
95°	185.0	146.3	126.0	114.1	106.8	104.0	104.9
97.5°	460.3	360.8	294.3	250.3	227.7	214.2	206.5
100°	726.1	600.0	488.6	412.3	372.7	346.0	329.5
102.5°	996.2	904.0	786.1	703.1	635.6	602.2	579.8
105°	1222.1	1234.1	1203.7	1146.6	1089.6	1050.0	1037.1
107.5°	1205.5	1301.2	1345.8	1353.0	1349.8	1341.9	1324.8
110°	1154.0	1271.8	1347.3	1386.8	1404.3	1412.6	1411.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1092.9	1218.8	1305.3	1360.3	1389.6	1405.3	1410.2
115°	1009.6	1130.0	1224.9	1290.2	1332.5	1356.5	1364.8
117.5°	941.8	1051.1	1140.0	1206.7	1251.3	1276.6	1283.6
120°	906.4	1004.0	1087.7	1152.1	1195.4	1222.1	1231.3
122.5°	877.0	969.4	1045.0	1102.8	1145.3	1169.1	1176.8
125°	838.4	919.3	988.3	1041.7	1076.7	1099.7	1107.1
127.5°	800.8	877.2	940.9	987.5	1020.2	1040.1	1046.0
130°	775.8	848.5	909.2	954.3	985.6	1004.0	1011.4
132.5°	752.3	819.0	876.1	920.4	951.7	968.7	975.3
135°	715.0	775.8	827.3	866.9	897.2	913.8	917.5
137.5°	685.4	733.6	778.6	814.6	840.7	855.3	860.8
140°	666.3	708.6	749.1	778.6	802.5	816.3	821.8
142.5°	649.4	685.8	719.6	747.6	769.4	781.6	782.8
145°	627.6	656.2	682.9	704.9	720.6	729.8	732.5
147.5°	610.0	632.2	651.7	669.9	682.5	688.7	690.4
150°	598.2	617.5	634.1	647.8	658.9	664.4	665.4
152.5°	588.6	605.0	619.3	630.2	639.8	643.8	644.0
155°	573.3	587.1	597.2	607.4	613.8	617.5	615.7
157.5°	557.9	569.4	577.3	584.6	589.9	591.5	591.5
160°	547.6	557.7	564.1	570.5	575.1	576.1	576.1
162.5°	538.0	546.6	551.6	558.0	561.2	562.1	561.3
165°	523.6	530.0	533.8	537.4	541.1	541.1	540.2
167.5°	510.6	515.0	518.3	519.9	522.0	521.8	520.7
170°	502.5	506.1	507.9	508.9	511.7	510.7	508.9
172.5°	495.1	498.0	499.2	500.1	501.4	500.4	499.3
175°	486.8	487.7	488.6	488.6	489.6	488.6	486.8
177.5°	480.8	481.5	481.5	481.5	481.5	480.8	479.3
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6

(END OF REPORT)