

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: P332992-927

Luminaire Tested: **SA4XXRDIP-C1195D590U927-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332992-927
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: SA4XXRDIP-C1195D590U927-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5590.7 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

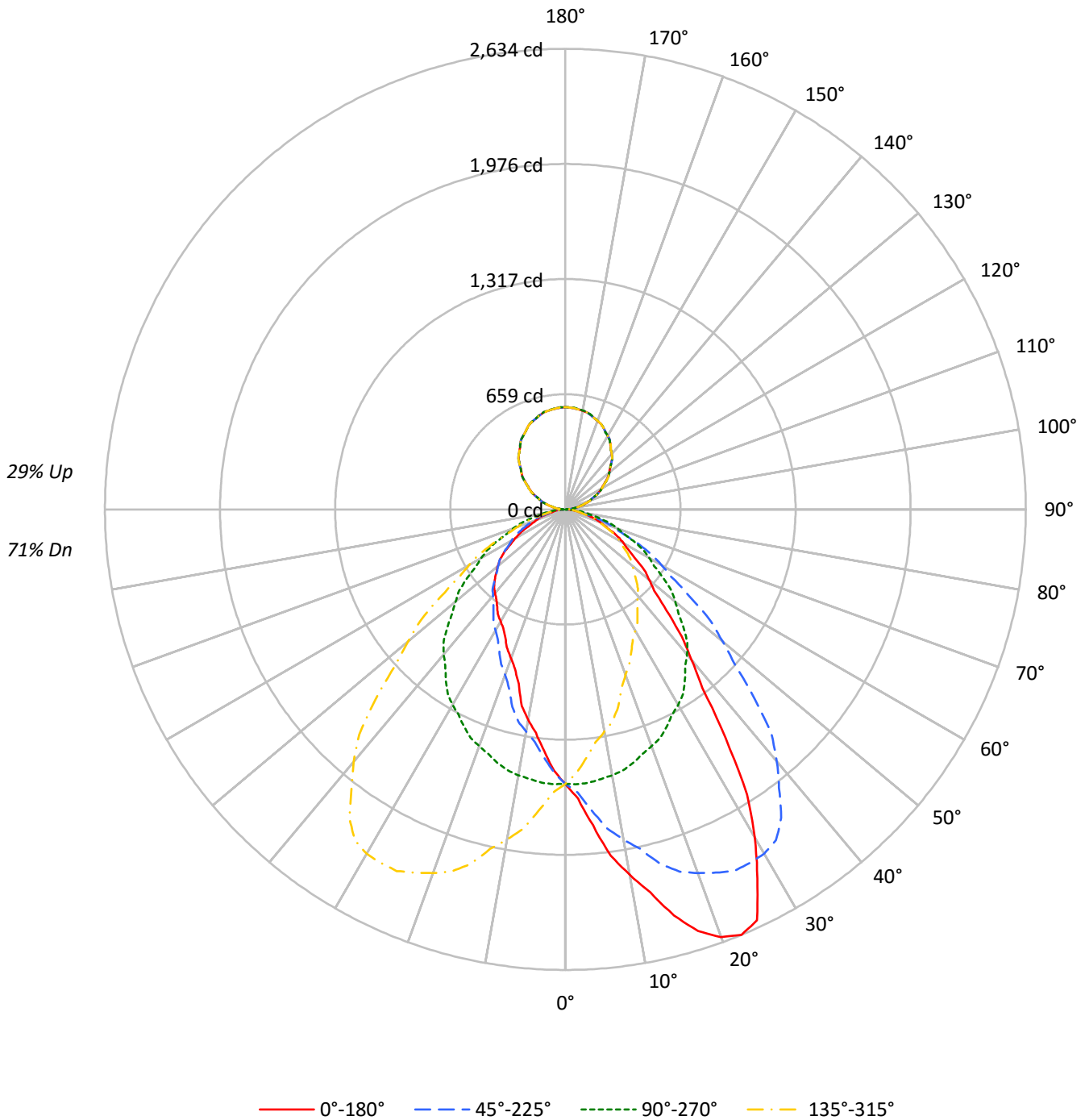
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	99	95	92	98	94	91	88	84	82	80	76	74	72	68	66	65	65	65	65	61	
2	94	87	81	76	89	83	78	73	75	71	67	67	64	61	60	58	56	56	56	56	52	
3	87	77	70	64	82	74	67	62	67	61	57	60	56	53	54	51	48	48	48	48	45	
4	80	69	61	55	75	66	59	53	60	54	49	54	49	46	49	45	42	42	42	42	39	
5	73	62	54	48	69	59	52	46	54	48	43	49	44	40	44	40	37	37	37	37	34	
6	68	56	48	42	64	53	46	40	49	42	38	44	39	35	40	36	33	33	33	33	30	
7	63	51	43	37	60	48	41	36	44	38	34	40	35	31	37	33	29	29	29	29	27	
8	59	46	38	33	55	44	37	32	41	34	30	37	32	28	34	30	26	26	26	26	24	
9	55	42	35	30	52	41	34	29	37	31	27	34	29	26	31	27	24	24	24	24	22	
10	51	39	32	27	49	37	31	26	35	29	25	32	27	23	29	25	22	22	22	22	20	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12674	12674	12674	12674
5°	14699	12712	11235	12712
10°	17390	12656	10027	12656
15°	20088	12538	8616	12538
20°	22365	12378	7792	12378
25°	23087	12219	7234	12219
30°	20211	12028	6898	12028
35°	15733	11744	6695	11744
40°	11798	11418	6585	11418
45°	9315	10896	6528	10896
50°	7863	10295	6339	10295
55°	6854	9633	6000	9633
60°	6168	8946	5310	8946
65°	5436	8202	4567	8202
70°	4898	7435	4121	7435
75°	4105	6591	3512	6591
80°	3468	5616	3292	5616
85°	2927	4400	2927	4400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	2.7
10°-20°	458.8	8.2
20°-30°	717.6	12.8
30°-40°	797.8	14.3
40°-50°	707.8	12.7
50°-60°	551.5	9.9
60°-70°	361.1	6.5
70°-80°	177.6	3.2
80°-90°	45.6	0.8
90°-100°	38.5	0.7
100°-110°	114.1	2.0
110°-120°	193.7	3.5
120°-130°	255.5	4.6
130°-140°	286.9	5.1
140°-150°	281.9	5.0
150°-160°	237.1	4.2
160°-170°	157.8	2.8
170°-180°	55.2	1.0
0°-30°	1328.5	23.8
0°-40°	2126.3	38.0
0°-60°	3385.7	60.6
0°-90°	3969.9	71.0
90°-120°	346.4	6.2
90°-150°	1170.7	20.9
90°-180°	1621.0	29.0
0°-180°	5590.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1570	1570	1570	1570	1570	
5°	1814	1569	1386	1569	1814	183
15°	2404	1500	1031	1500	2404	683
25°	2592	1372	812	1372	2592	1150
35°	1596	1192	679	1192	1596	1001
45°	816	954	572	954	816	646
55°	487	684	426	684	487	443
65°	285	429	239	429	285	286
75°	132	211	113	211	132	145
85°	32	48	32	48	32	36
90°	14	1	14	1	14	8
95°	36	27	36	27	36	37
105°	110	105	110	105	110	116
115°	195	197	195	197	195	193
125°	285	287	285	287	285	254
135°	370	370	370	370	370	286
145°	450	450	450	450	450	282
155°	515	515	515	515	515	237
165°	559	561	559	561	559	158
175°	581	583	581	583	581	55
180°	584	584	584	584	584	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1655.8	1660.4	1655.8	1655.3	1650.3	1648.8	1646.7	1640.1	1628.0	1621.0	1622.5
5°	1813.9	1829.8	1820.9	1819.6	1805.8	1791.8	1783.0	1762.8	1741.2	1726.7	1714.7
7.5°	1996.9	2006.0	2000.4	1991.5	1969.0	1956.3	1935.8	1909.1	1870.5	1841.0	1814.1
10°	2121.4	2128.9	2126.5	2110.0	2093.5	2060.0	2041.1	2003.7	1955.0	1916.4	1880.4
12.5°	2243.8	2251.9	2229.7	2230.4	2199.3	2172.9	2142.8	2095.8	2039.6	1989.8	1944.6
15°	2403.5	2393.3	2393.3	2380.7	2345.9	2309.2	2278.2	2228.9	2158.1	2098.6	2036.0
17.5°	2528.4	2532.0	2526.7	2497.0	2469.6	2431.7	2374.9	2317.3	2251.5	2171.7	2107.7
20°	2603.3	2603.3	2597.6	2577.4	2542.0	2501.5	2440.2	2377.5	2294.0	2213.7	2141.6
22.5°	2633.7	2635.7	2629.0	2612.3	2580.5	2540.9	2488.7	2425.1	2339.1	2248.6	2159.3
25°	2591.9	2604.0	2605.2	2600.8	2591.3	2567.2	2522.4	2457.2	2380.0	2282.0	2185.9
27.5°	2379.6	2394.8	2408.2	2430.0	2459.1	2474.3	2476.3	2443.2	2375.8	2281.5	2184.8
30°	2168.1	2180.8	2221.9	2275.7	2317.5	2355.4	2388.3	2397.1	2359.2	2274.4	2172.6
32.5°	1933.4	1950.6	1991.7	2049.5	2119.1	2183.3	2257.2	2294.9	2293.9	2243.1	2148.8
35°	1596.4	1609.1	1647.0	1707.7	1791.2	1886.7	2003.7	2094.8	2156.8	2152.4	2094.8
37.5°	1287.5	1301.8	1340.1	1390.4	1471.4	1589.7	1702.9	1828.4	1943.0	2007.4	1988.1
40°	1119.5	1120.1	1157.5	1209.3	1285.2	1388.3	1511.6	1650.7	1778.5	1882.9	1903.1
42.5°	986.9	987.1	1011.7	1067.6	1122.3	1219.3	1337.0	1475.2	1624.8	1745.3	1798.9
45°	815.9	821.6	841.9	875.4	918.4	1000.6	1094.8	1223.2	1390.8	1533.7	1622.9
47.5°	690.9	699.3	712.2	739.5	773.8	828.5	906.5	1021.8	1158.2	1315.4	1442.3
50°	626.1	627.4	643.9	659.0	688.8	732.5	800.7	896.8	1022.1	1173.2	1314.3
52.5°	570.5	570.2	580.1	599.4	623.5	657.5	712.6	800.2	911.2	1046.8	1192.4
55°	487.0	490.2	497.7	512.9	531.3	555.3	599.0	664.7	752.0	867.8	1000.0
57.5°	423.5	425.2	431.1	437.5	454.4	471.8	504.6	550.2	623.9	718.7	841.9
60°	382.0	382.6	384.5	394.0	407.3	423.7	445.9	484.5	546.4	633.1	730.6
62.5°	341.5	342.7	345.6	352.5	362.8	374.1	397.4	428.3	479.7	553.7	641.4
65°	284.6	285.3	289.7	292.2	300.4	310.5	327.6	348.5	383.9	445.9	512.3
67.5°	237.8	237.8	238.1	241.5	247.2	253.9	264.1	280.8	307.5	345.6	404.2
70°	207.5	207.5	208.7	210.6	213.8	219.4	225.1	237.8	257.5	288.4	333.4
72.5°	179.1	179.6	180.9	181.3	182.9	187.6	191.8	199.9	214.4	237.8	274.1
75°	131.6	133.5	136.7	139.2	142.3	141.6	146.1	151.1	155.6	169.5	190.4
77.5°	97.9	96.9	97.3	99.4	99.8	100.4	103.6	107.5	110.8	117.4	124.8
80°	74.6	74.6	76.5	77.2	76.5	77.2	80.3	82.2	83.5	86.0	93.0
82.5°	56.4	57.4	56.8	57.4	57.8	58.5	61.1	61.5	62.7	63.8	66.7
85°	31.6	32.2	32.9	31.6	31.6	31.6	32.9	33.5	34.8	34.1	35.4
87.5°	13.9	13.3	13.8	13.7	14.2	13.6	14.0	14.9	13.8	14.1	13.9
90°	13.5	13.4	13.2	13.0	12.8	12.4	11.7	11.2	10.5	9.9	9.1
92.5°	20.0	20.0	19.8	19.7	19.6	19.3	19.0	18.6	18.2	17.9	17.3
95°	35.7	35.7	35.7	35.7	35.7	35.6	35.3	34.9	34.6	34.3	33.7
97.5°	55.9	55.9	55.9	55.9	55.9	55.8	55.4	55.1	54.7	54.3	53.5
100°	70.0	70.0	70.0	70.0	70.0	69.9	69.7	69.6	69.3	69.2	68.2
102.5°	86.0	85.9	85.8	85.7	85.6	85.4	85.2	84.8	84.6	84.3	83.5
105°	110.3	110.0	109.6	109.3	109.0	108.8	108.4	108.1	107.8	107.5	107.1
107.5°	134.0	134.0	134.0	134.0	134.0	133.9	133.6	133.3	133.0	132.8	132.7
110°	150.9	150.6	150.3	150.0	149.7	149.6	149.9	150.0	150.3	150.4	150.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	168.3	168.2	168.1	168.1	168.0	168.0	168.0	168.1	168.1	168.2	168.3
115°	195.2	195.3	195.4	195.5	195.6	195.7	195.8	195.9	196.0	196.1	196.3
117.5°	220.9	221.0	221.3	221.4	221.7	221.9	222.3	222.6	222.9	223.3	223.4
120°	240.3	240.2	240.0	239.8	239.6	239.7	240.2	240.7	241.2	241.7	242.0
122.5°	256.7	257.0	257.4	257.7	258.1	258.4	258.8	259.1	259.4	259.8	259.9
125°	284.6	284.9	285.0	285.3	285.4	285.7	285.8	286.1	286.2	286.5	286.5
127.5°	310.6	310.8	310.9	311.1	311.2	311.4	311.6	311.8	312.0	312.2	312.4
130°	327.6	328.0	328.4	328.8	329.2	329.5	329.7	329.9	330.1	330.3	330.3
132.5°	345.6	345.8	345.9	346.1	346.3	346.5	346.7	346.9	347.1	347.3	347.4
135°	370.5	370.8	371.1	371.4	371.7	371.9	372.2	372.3	372.6	372.7	372.7
137.5°	396.6	396.6	396.5	396.4	396.3	396.5	396.7	397.0	397.3	397.5	397.4
140°	412.5	412.6	412.7	412.8	412.9	413.0	413.1	413.2	413.3	413.4	413.4
142.5°	428.4	428.4	428.5	428.5	428.5	428.5	428.6	428.6	428.6	428.6	428.6
145°	450.0	450.3	450.6	450.9	451.2	451.4	451.5	451.6	451.7	451.8	451.7
147.5°	471.9	472.0	472.1	472.2	472.3	472.4	472.5	472.5	472.6	472.7	472.8
150°	485.3	485.4	485.4	485.5	485.7	485.7	485.7	485.7	485.7	485.7	485.7
152.5°	497.6	497.8	498.0	498.4	498.6	498.6	498.4	498.1	497.9	497.6	497.6
155°	514.6	515.0	515.4	515.8	516.3	516.3	515.8	515.4	515.0	514.6	514.8
157.5°	529.9	530.2	530.6	530.9	531.2	531.3	531.0	530.7	530.4	530.0	530.1
160°	538.6	539.1	539.6	540.1	540.6	540.7	540.3	540.1	539.8	539.5	539.6
162.5°	547.6	548.1	548.6	549.1	549.6	549.6	549.1	548.5	548.0	547.4	547.6
165°	559.4	559.8	560.2	560.5	560.9	560.9	560.2	559.7	559.0	558.5	558.6
167.5°	567.8	568.4	569.0	569.7	570.2	570.3	569.7	569.0	568.5	567.8	567.8
170°	572.4	573.1	573.9	574.6	575.3	575.3	574.7	574.1	573.5	572.9	572.8
172.5°	576.5	577.1	577.8	578.5	579.2	579.2	578.6	577.9	577.2	576.6	576.5
175°	580.6	581.3	582.0	582.7	583.4	583.4	582.7	582.0	581.3	580.6	580.7
177.5°	582.7	583.4	584.1	584.7	585.3	585.3	584.8	584.2	583.7	583.1	583.1
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1617.4	1610.3	1606.8	1598.7	1589.0	1584.0	1579.5	1572.9	1564.2	1555.1	1548.6
5°	1699.5	1684.3	1665.3	1642.6	1622.3	1602.7	1585.6	1568.6	1549.0	1528.8	1508.5
7.5°	1783.8	1753.9	1721.6	1684.3	1648.0	1615.0	1584.6	1555.5	1522.7	1493.2	1466.3
10°	1842.5	1802.0	1757.1	1709.6	1662.2	1621.0	1580.6	1543.9	1503.4	1467.4	1437.0
12.5°	1890.0	1842.5	1788.4	1729.3	1672.3	1622.5	1576.0	1528.2	1482.2	1443.1	1402.6
15°	1968.9	1903.8	1831.1	1760.2	1686.2	1618.5	1555.9	1500.2	1447.8	1392.7	1354.2
17.5°	2023.2	1945.9	1857.5	1772.3	1685.0	1605.1	1532.9	1466.6	1406.0	1349.9	1303.9
20°	2055.6	1970.2	1872.2	1775.4	1677.4	1592.0	1514.2	1440.8	1378.2	1317.5	1270.0
22.5°	2073.8	1979.3	1872.2	1770.8	1669.3	1576.8	1491.4	1415.0	1346.8	1286.1	1233.6
25°	2079.6	1978.4	1869.0	1752.6	1641.3	1543.3	1454.7	1371.8	1295.9	1235.2	1179.6
27.5°	2071.6	1952.3	1840.3	1720.9	1606.0	1502.7	1409.7	1322.6	1246.7	1181.5	1124.4
30°	2059.4	1931.6	1811.4	1687.5	1571.1	1471.8	1373.7	1290.3	1211.2	1143.5	1086.0
32.5°	2033.1	1906.3	1777.0	1650.0	1532.2	1429.8	1336.8	1252.8	1175.3	1106.1	1045.0
35°	1980.9	1852.5	1712.1	1581.8	1466.1	1359.9	1272.6	1191.6	1117.6	1043.6	979.1
37.5°	1912.2	1781.1	1641.4	1498.7	1382.8	1282.5	1202.5	1126.5	1054.2	986.7	915.2
40°	1847.5	1728.0	1583.7	1442.1	1323.2	1226.4	1152.4	1083.5	1010.7	943.6	872.2
42.5°	1769.1	1667.2	1521.5	1379.3	1261.9	1168.7	1099.8	1032.4	966.2	901.2	826.6
45°	1638.2	1561.0	1424.3	1287.8	1169.5	1077.1	1013.9	954.4	896.2	834.2	764.1
47.5°	1488.1	1435.8	1318.0	1178.1	1068.7	985.6	924.5	875.8	826.6	764.7	703.1
50°	1383.9	1350.4	1236.5	1108.7	1004.4	927.9	865.2	819.7	778.6	719.1	664.1
52.5°	1272.6	1254.7	1158.6	1036.4	935.6	860.5	807.1	766.0	724.5	675.1	623.6
55°	1103.0	1112.5	1030.9	925.3	830.4	767.2	718.5	684.4	649.0	607.2	567.4
57.5°	929.8	964.4	909.7	816.9	728.0	669.6	632.9	604.1	574.4	539.8	505.7
60°	826.0	855.1	824.1	742.5	664.7	610.4	576.2	554.1	524.3	492.7	466.8
62.5°	724.8	756.0	737.6	671.7	599.4	552.7	522.5	501.9	479.8	452.3	425.3
65°	597.7	617.9	609.1	563.6	512.3	472.5	444.7	429.4	409.2	389.0	365.0
67.5°	457.8	496.9	491.7	467.5	423.3	392.1	373.9	360.5	342.1	327.0	310.7
70°	376.4	412.4	411.8	392.1	368.1	339.0	326.4	315.0	298.5	284.0	270.7
72.5°	308.0	341.0	345.9	330.9	314.5	292.5	280.4	272.5	256.5	246.5	235.8
75°	215.7	239.7	246.1	246.1	238.4	227.0	216.3	211.3	199.9	191.0	184.7
77.5°	141.4	156.6	166.4	168.7	169.9	166.1	157.2	153.7	145.0	141.8	135.7
80°	99.9	110.0	121.4	125.2	128.4	127.1	123.3	120.8	112.6	109.4	106.9
82.5°	69.1	74.6	84.0	92.4	91.4	94.7	91.4	89.4	83.3	82.1	79.5
85°	36.0	36.7	37.9	43.6	46.8	48.1	48.7	47.5	45.6	45.6	41.1
87.5°	13.8	13.2	14.0	13.8	14.1	15.9	17.2	17.5	16.2	14.9	13.5
90°	8.3	7.5	6.7	5.8	4.7	3.6	2.5	1.3	2.5	3.6	4.7
92.5°	16.8	16.2	15.6	14.7	13.5	12.2	10.9	9.7	10.9	12.2	13.5
95°	33.0	32.2	31.5	30.7	29.8	28.9	28.0	27.1	28.0	28.9	29.8
97.5°	52.7	51.8	51.0	50.2	49.5	48.8	48.1	47.4	48.1	48.8	49.5
100°	67.3	66.4	65.5	64.9	64.5	64.1	63.7	63.2	63.7	64.1	64.5
102.5°	82.6	81.8	81.0	80.5	80.3	80.2	80.0	79.9	80.0	80.2	80.3
105°	106.7	106.3	105.9	105.7	105.6	105.4	105.4	105.3	105.4	105.4	105.6
107.5°	132.6	132.5	132.5	132.5	132.3	132.1	132.1	131.9	132.1	132.1	132.3
110°	150.7	150.8	150.8	150.8	150.6	150.4	150.2	150.0	150.2	150.4	150.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	168.5	168.7	168.9	169.0	168.9	168.9	168.8	168.8	168.8	168.9	168.9
115°	196.5	196.7	196.9	197.0	197.0	197.0	197.0	197.0	197.0	197.0	197.0
117.5°	223.6	223.7	223.9	223.9	223.8	223.7	223.6	223.6	223.6	223.7	223.8
120°	242.3	242.6	243.0	242.9	242.5	242.1	241.7	241.3	241.7	242.1	242.5
122.5°	260.1	260.2	260.4	260.3	260.2	260.0	259.8	259.7	259.8	260.0	260.2
125°	286.7	286.8	286.8	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9
127.5°	312.5	312.7	312.8	312.8	312.5	312.2	311.9	311.6	311.9	312.2	312.5
130°	330.3	330.3	330.3	330.1	329.9	329.5	329.2	328.9	329.2	329.5	329.9
132.5°	347.5	347.5	347.6	347.5	347.3	347.1	346.9	346.7	346.9	347.1	347.3
135°	372.7	372.7	372.7	372.5	371.9	371.2	370.7	370.0	370.7	371.2	371.9
137.5°	397.2	397.0	396.9	396.6	396.3	396.1	395.8	395.5	395.8	396.1	396.3
140°	413.4	413.4	413.4	413.3	413.1	412.9	412.7	412.5	412.7	412.9	413.1
142.5°	428.7	428.8	428.9	428.9	428.6	428.5	428.3	428.0	428.3	428.5	428.6
145°	451.6	451.5	451.4	451.1	450.8	450.4	450.0	449.6	450.0	450.4	450.8
147.5°	472.9	472.9	473.0	472.9	472.3	471.8	471.3	470.9	471.3	471.8	472.3
150°	485.7	485.7	485.7	485.5	485.1	484.7	484.3	483.9	484.3	484.7	485.1
152.5°	497.5	497.4	497.3	497.2	496.9	496.7	496.5	496.2	496.5	496.7	496.9
155°	514.8	514.9	515.0	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1
157.5°	530.1	530.1	530.1	530.3	530.4	530.6	530.8	531.0	530.8	530.6	530.4
160°	539.7	539.8	539.9	540.0	540.1	540.2	540.3	540.3	540.3	540.2	540.1
162.5°	547.6	547.7	547.8	548.0	548.3	548.5	548.8	549.1	548.8	548.5	548.3
165°	558.9	559.0	559.3	559.5	559.8	560.1	560.4	560.7	560.4	560.1	559.8
167.5°	567.8	567.8	567.8	568.0	568.4	568.8	569.3	569.7	569.3	568.8	568.4
170°	572.7	572.6	572.5	572.7	573.2	573.7	574.3	574.7	574.3	573.7	573.2
172.5°	576.5	576.5	576.5	576.6	577.1	577.5	577.9	578.3	577.9	577.5	577.1
175°	580.8	580.9	581.0	581.3	581.8	582.3	582.8	583.3	582.8	582.3	581.8
177.5°	583.1	583.1	583.1	583.3	583.8	584.2	584.6	584.9	584.6	584.2	583.8
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1541.5	1536.4	1529.9	1522.3	1513.1	1505.1	1501.5	1504.6	1506.1	1502.1	1501.5
5°	1494.5	1478.8	1466.1	1447.2	1431.9	1419.3	1410.5	1406.7	1407.9	1397.8	1395.3
7.5°	1441.9	1423.1	1402.3	1379.8	1358.8	1340.2	1330.5	1325.2	1314.5	1309.9	1302.2
10°	1407.9	1382.6	1362.4	1335.8	1311.8	1289.7	1278.9	1270.0	1259.3	1254.2	1243.5
12.5°	1373.0	1343.6	1321.4	1293.8	1269.2	1242.6	1232.3	1215.9	1199.0	1188.4	1174.6
15°	1323.8	1288.4	1261.2	1228.3	1199.2	1168.9	1141.6	1111.3	1099.9	1075.9	1061.9
17.5°	1266.2	1230.3	1196.7	1152.5	1107.6	1069.9	1040.9	1011.9	994.4	979.1	972.0
20°	1228.3	1195.4	1148.6	1097.3	1047.4	1005.7	982.2	963.3	944.3	933.6	926.0
22.5°	1192.4	1150.3	1096.0	1040.7	990.7	958.1	938.3	918.8	903.3	893.1	883.0
25°	1132.2	1077.1	1019.5	956.3	922.2	893.7	872.2	856.3	846.9	833.6	828.5
27.5°	1070.3	1003.6	940.2	897.6	862.1	836.0	817.3	805.4	793.4	784.9	778.3
30°	1022.7	955.1	898.1	857.6	821.6	800.1	784.9	771.0	761.5	754.6	749.5
32.5°	975.7	908.0	860.2	816.7	788.2	767.2	751.0	740.6	733.2	724.2	721.1
35°	907.6	847.6	805.8	766.6	737.4	718.5	705.8	695.1	688.8	686.3	684.4
37.5°	842.2	793.0	748.1	716.0	690.1	675.1	660.2	654.9	650.5	646.0	648.1
40°	800.7	754.6	714.7	680.6	659.7	643.3	634.4	628.0	624.2	624.2	624.2
42.5°	764.8	719.6	680.8	650.2	629.3	615.4	605.5	600.2	599.0	598.5	601.5
45°	709.0	667.3	628.0	602.8	585.0	571.2	565.5	561.0	561.0	563.6	564.2
47.5°	653.7	614.7	583.1	554.8	538.6	529.9	525.0	522.7	522.9	525.5	528.4
50°	619.8	581.2	550.2	525.0	509.8	501.5	497.1	495.9	497.1	497.1	501.5
52.5°	582.9	548.3	517.8	496.6	479.4	471.7	469.3	467.5	468.3	470.3	472.2
55°	528.8	497.7	468.7	448.5	435.8	430.7	425.0	425.6	424.4	425.6	425.6
57.5°	474.5	446.6	419.6	403.5	392.4	385.1	378.8	380.6	378.7	378.5	377.5
60°	439.6	409.2	387.7	373.2	360.5	354.2	348.5	349.7	347.8	346.6	344.0
62.5°	401.6	376.4	355.8	341.8	331.7	324.3	318.6	317.3	313.0	308.6	303.1
65°	346.6	325.7	307.4	294.1	284.6	278.9	274.5	270.7	261.2	251.1	246.1
67.5°	293.1	278.1	260.9	249.7	242.0	234.6	226.1	219.6	210.7	205.2	202.0
70°	258.6	244.2	229.6	218.8	210.6	203.7	194.2	189.7	183.4	180.9	177.8
72.5°	225.8	212.2	198.8	189.0	180.2	174.8	167.4	163.0	160.2	159.1	156.0
75°	175.9	165.1	155.0	146.1	139.2	135.4	132.2	129.0	127.8	122.1	118.9
77.5°	128.3	121.2	114.9	108.5	103.6	101.1	95.0	91.3	89.2	86.5	85.9
80°	99.9	94.9	88.6	84.8	77.8	75.3	72.7	72.1	71.5	70.8	70.2
82.5°	75.2	70.1	63.8	61.5	59.6	58.1	56.6	55.9	55.3	55.7	55.5
85°	37.9	35.4	35.4	34.8	34.1	33.5	32.9	32.9	32.2	32.9	32.2
87.5°	13.8	13.5	13.6	12.8	13.5	13.6	13.2	13.4	14.0	13.1	13.2
90°	5.8	6.7	7.5	8.3	9.1	9.9	10.5	11.2	11.7	12.4	12.8
92.5°	14.7	15.6	16.2	16.8	17.3	17.9	18.2	18.6	19.0	19.3	19.6
95°	30.7	31.5	32.2	33.0	33.7	34.3	34.6	34.9	35.3	35.6	35.7
97.5°	50.2	51.0	51.8	52.7	53.5	54.3	54.7	55.1	55.4	55.8	55.9
100°	64.9	65.5	66.4	67.3	68.2	69.2	69.3	69.6	69.7	69.9	70.0
102.5°	80.5	81.0	81.8	82.6	83.5	84.3	84.6	84.8	85.2	85.4	85.6
105°	105.7	105.9	106.3	106.7	107.1	107.5	107.8	108.1	108.4	108.8	109.0
107.5°	132.5	132.5	132.5	132.6	132.7	132.8	133.0	133.3	133.6	133.9	134.0
110°	150.8	150.8	150.8	150.7	150.6	150.4	150.3	150.0	149.9	149.6	149.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	169.0	168.9	168.7	168.5	168.3	168.2	168.1	168.1	168.0	168.0	168.0
115°	197.0	196.9	196.7	196.5	196.3	196.1	196.0	195.9	195.8	195.7	195.6
117.5°	223.9	223.9	223.7	223.6	223.4	223.3	222.9	222.6	222.3	221.9	221.7
120°	242.9	243.0	242.6	242.3	242.0	241.7	241.2	240.7	240.2	239.7	239.6
122.5°	260.3	260.4	260.2	260.1	259.9	259.8	259.4	259.1	258.8	258.4	258.1
125°	286.9	286.8	286.8	286.7	286.5	286.5	286.2	286.1	285.8	285.7	285.4
127.5°	312.8	312.8	312.7	312.5	312.4	312.2	312.0	311.8	311.6	311.4	311.2
130°	330.1	330.3	330.3	330.3	330.3	330.3	330.1	329.9	329.7	329.5	329.2
132.5°	347.5	347.6	347.5	347.5	347.4	347.3	347.1	346.9	346.7	346.5	346.3
135°	372.5	372.7	372.7	372.7	372.7	372.7	372.6	372.3	372.2	371.9	371.7
137.5°	396.6	396.9	397.0	397.2	397.4	397.5	397.3	397.0	396.7	396.5	396.3
140°	413.3	413.4	413.4	413.4	413.4	413.4	413.3	413.2	413.1	413.0	412.9
142.5°	428.9	428.9	428.8	428.7	428.6	428.6	428.6	428.6	428.6	428.5	428.5
145°	451.1	451.4	451.5	451.6	451.7	451.8	451.7	451.6	451.5	451.4	451.2
147.5°	472.9	473.0	472.9	472.9	472.8	472.7	472.6	472.5	472.5	472.4	472.3
150°	485.5	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7
152.5°	497.2	497.3	497.4	497.5	497.6	497.6	497.9	498.1	498.4	498.6	498.6
155°	515.1	515.0	514.9	514.8	514.8	514.6	515.0	515.4	515.8	516.3	516.3
157.5°	530.3	530.1	530.1	530.1	530.1	530.0	530.4	530.7	531.0	531.3	531.2
160°	540.0	539.9	539.8	539.7	539.6	539.5	539.8	540.1	540.3	540.7	540.6
162.5°	548.0	547.8	547.7	547.6	547.6	547.4	548.0	548.5	549.1	549.6	549.6
165°	559.5	559.3	559.0	558.9	558.6	558.5	559.0	559.7	560.2	560.9	560.9
167.5°	568.0	567.8	567.8	567.8	567.8	567.8	568.5	569.0	569.7	570.3	570.2
170°	572.7	572.5	572.6	572.7	572.8	572.9	573.5	574.1	574.7	575.3	575.3
172.5°	576.6	576.5	576.5	576.5	576.5	576.6	577.2	577.9	578.6	579.2	579.2
175°	581.3	581.0	580.9	580.8	580.7	580.6	581.3	582.0	582.7	583.4	583.4
177.5°	583.3	583.1	583.1	583.1	583.1	583.1	583.7	584.2	584.8	585.3	585.3
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



TEST NUMBER: P332992-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1498.5	1499.5	1496.0	1494.9	1496.0	1499.5	1498.5	1501.5	1502.1	1506.1	1504.6
5°	1390.2	1388.9	1385.8	1386.4	1385.8	1388.9	1390.2	1395.3	1397.8	1407.9	1406.7
7.5°	1297.6	1292.7	1294.0	1289.0	1294.0	1292.7	1297.6	1302.2	1309.9	1314.5	1325.2
10°	1241.0	1234.0	1228.3	1223.2	1228.3	1234.0	1241.0	1243.5	1254.2	1259.3	1270.0
12.5°	1163.6	1157.5	1149.9	1151.4	1149.9	1157.5	1163.6	1174.6	1188.4	1199.0	1215.9
15°	1053.7	1044.3	1029.0	1030.9	1029.0	1044.3	1053.7	1061.9	1075.9	1099.9	1111.3
17.5°	960.8	960.8	953.9	955.5	953.9	960.8	960.8	972.0	979.1	994.4	1011.9
20°	912.7	908.2	908.9	907.0	908.9	908.2	912.7	926.0	933.6	944.3	963.3
22.5°	879.2	873.9	869.4	865.5	869.4	873.9	879.2	883.0	893.1	903.3	918.8
25°	822.8	819.0	813.4	812.1	813.4	819.0	822.8	828.5	833.6	846.9	856.3
27.5°	773.2	772.5	770.2	767.3	770.2	772.5	773.2	778.3	784.9	793.4	805.4
30°	744.4	743.1	741.9	740.0	741.9	743.1	744.4	749.5	754.6	761.5	771.0
32.5°	718.7	717.9	716.6	716.8	716.6	717.9	718.7	721.1	724.2	733.2	740.6
35°	681.8	681.2	679.9	679.3	679.9	681.2	681.8	684.4	686.3	688.8	695.1
37.5°	647.5	649.0	648.3	648.2	648.3	649.0	647.5	648.1	646.0	650.5	654.9
40°	623.6	624.2	625.5	624.9	625.5	624.2	623.6	624.2	624.2	624.2	628.0
42.5°	603.9	604.0	605.8	603.6	605.8	604.0	603.9	601.5	598.5	599.0	600.2
45°	568.6	572.4	571.8	571.8	571.8	572.4	568.6	564.2	563.6	561.0	561.0
47.5°	530.0	533.3	534.2	534.1	534.2	533.3	530.0	528.4	525.5	522.9	522.7
50°	504.7	503.4	505.3	504.7	505.3	503.4	504.7	501.5	497.1	497.1	495.9
52.5°	473.9	474.1	474.0	473.3	474.0	474.1	473.9	472.2	470.3	468.3	467.5
55°	426.3	426.9	425.6	426.3	425.6	426.9	426.3	425.6	425.6	424.4	425.6
57.5°	374.7	371.6	372.9	371.4	372.9	371.6	374.7	377.5	378.5	378.7	380.6
60°	337.8	332.7	331.4	328.9	331.4	332.7	337.8	344.0	346.6	347.8	349.7
62.5°	296.3	292.7	288.4	290.4	288.4	292.7	296.3	303.1	308.6	313.0	317.3
65°	241.0	238.4	236.5	239.1	236.5	238.4	241.0	246.1	251.1	261.2	270.7
67.5°	199.5	198.1	198.1	196.9	198.1	198.1	199.5	202.0	205.2	210.7	219.6
70°	177.8	175.9	175.9	174.6	175.9	175.9	177.8	177.8	180.9	183.4	189.7
72.5°	155.4	153.6	154.1	153.3	154.1	153.6	155.4	156.0	159.1	160.2	163.0
75°	115.1	111.9	111.9	112.6	111.9	111.9	115.1	118.9	122.1	127.8	129.0
77.5°	85.9	85.2	86.1	85.0	86.1	85.2	85.9	85.9	86.5	89.2	91.3
80°	70.2	69.6	68.9	70.8	68.9	69.6	70.2	70.2	70.8	71.5	72.1
82.5°	54.5	54.4	54.3	56.6	54.3	54.4	54.5	55.5	55.7	55.3	55.9
85°	32.9	31.6	32.9	31.6	32.9	31.6	32.9	32.2	32.9	32.2	32.9
87.5°	14.3	13.8	13.3	13.9	13.3	13.8	14.3	13.2	13.1	14.0	13.4
90°	13.0	13.2	13.4	13.5	13.4	13.2	13.0	12.8	12.4	11.7	11.2
92.5°	19.7	19.8	20.0	20.0	20.0	19.8	19.7	19.6	19.3	19.0	18.6
95°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.6	35.3	34.9
97.5°	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.8	55.4	55.1
100°	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	69.9	69.7	69.6
102.5°	85.7	85.8	85.9	86.0	85.9	85.8	85.7	85.6	85.4	85.2	84.8
105°	109.3	109.6	110.0	110.3	110.0	109.6	109.3	109.0	108.8	108.4	108.1
107.5°	134.0	134.0	134.0	134.0	134.0	134.0	134.0	134.0	133.9	133.6	133.3
110°	150.0	150.3	150.6	150.9	150.6	150.3	150.0	149.7	149.6	149.9	150.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	168.1	168.1	168.2	168.3	168.2	168.1	168.1	168.0	168.0	168.0	168.1
115°	195.5	195.4	195.3	195.2	195.3	195.4	195.5	195.6	195.7	195.8	195.9
117.5°	221.4	221.3	221.0	220.9	221.0	221.3	221.4	221.7	221.9	222.3	222.6
120°	239.8	240.0	240.2	240.3	240.2	240.0	239.8	239.6	239.7	240.2	240.7
122.5°	257.7	257.4	257.0	256.7	257.0	257.4	257.7	258.1	258.4	258.8	259.1
125°	285.3	285.0	284.9	284.6	284.9	285.0	285.3	285.4	285.7	285.8	286.1
127.5°	311.1	310.9	310.8	310.6	310.8	310.9	311.1	311.2	311.4	311.6	311.8
130°	328.8	328.4	328.0	327.6	328.0	328.4	328.8	329.2	329.5	329.7	329.9
132.5°	346.1	345.9	345.8	345.6	345.8	345.9	346.1	346.3	346.5	346.7	346.9
135°	371.4	371.1	370.8	370.5	370.8	371.1	371.4	371.7	371.9	372.2	372.3
137.5°	396.4	396.5	396.6	396.6	396.6	396.5	396.4	396.3	396.5	396.7	397.0
140°	412.8	412.7	412.6	412.5	412.6	412.7	412.8	412.9	413.0	413.1	413.2
142.5°	428.5	428.5	428.4	428.4	428.4	428.5	428.5	428.5	428.5	428.6	428.6
145°	450.9	450.6	450.3	450.0	450.3	450.6	450.9	451.2	451.4	451.5	451.6
147.5°	472.2	472.1	472.0	471.9	472.0	472.1	472.2	472.3	472.4	472.5	472.5
150°	485.5	485.4	485.4	485.3	485.4	485.4	485.5	485.7	485.7	485.7	485.7
152.5°	498.4	498.0	497.8	497.6	497.8	498.0	498.4	498.6	498.6	498.4	498.1
155°	515.8	515.4	515.0	514.6	515.0	515.4	515.8	516.3	516.3	515.8	515.4
157.5°	530.9	530.6	530.2	529.9	530.2	530.6	530.9	531.2	531.3	531.0	530.7
160°	540.1	539.6	539.1	538.6	539.1	539.6	540.1	540.6	540.7	540.3	540.1
162.5°	549.1	548.6	548.1	547.6	548.1	548.6	549.1	549.6	549.6	549.1	548.5
165°	560.5	560.2	559.8	559.4	559.8	560.2	560.5	560.9	560.9	560.2	559.7
167.5°	569.7	569.0	568.4	567.8	568.4	569.0	569.7	570.2	570.3	569.7	569.0
170°	574.6	573.9	573.1	572.4	573.1	573.9	574.6	575.3	575.3	574.7	574.1
172.5°	578.5	577.8	577.1	576.5	577.1	577.8	578.5	579.2	579.2	578.6	577.9
175°	582.7	582.0	581.3	580.6	581.3	582.0	582.7	583.4	583.4	582.7	582.0
177.5°	584.7	584.1	583.4	582.7	583.4	584.1	584.7	585.3	585.3	584.8	584.2
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1501.5	1505.1	1513.1	1522.3	1529.9	1536.4	1541.5	1548.6	1555.1	1564.2	1572.9
5°	1410.5	1419.3	1431.9	1447.2	1466.1	1478.8	1494.5	1508.5	1528.8	1549.0	1568.6
7.5°	1330.5	1340.2	1358.8	1379.8	1402.3	1423.1	1441.9	1466.3	1493.2	1522.7	1555.5
10°	1278.9	1289.7	1311.8	1335.8	1362.4	1382.6	1407.9	1437.0	1467.4	1503.4	1543.9
12.5°	1232.3	1242.6	1269.2	1293.8	1321.4	1343.6	1373.0	1402.6	1443.1	1482.2	1528.2
15°	1141.6	1168.9	1199.2	1228.3	1261.2	1288.4	1323.8	1354.2	1392.7	1447.8	1500.2
17.5°	1040.9	1069.9	1107.6	1152.5	1196.7	1230.3	1266.2	1303.9	1349.9	1406.0	1466.6
20°	982.2	1005.7	1047.4	1097.3	1148.6	1195.4	1228.3	1270.0	1317.5	1378.2	1440.8
22.5°	938.3	958.1	990.7	1040.7	1096.0	1150.3	1192.4	1233.6	1286.1	1346.8	1415.0
25°	872.2	893.7	922.2	956.3	1019.5	1077.1	1132.2	1179.6	1235.2	1295.9	1371.8
27.5°	817.3	836.0	862.1	897.6	940.2	1003.6	1070.3	1124.4	1181.5	1246.7	1322.6
30°	784.9	800.1	821.6	857.6	898.1	955.1	1022.7	1086.0	1143.5	1211.2	1290.3
32.5°	751.0	767.2	788.2	816.7	860.2	908.0	975.7	1045.0	1106.1	1175.3	1252.8
35°	705.8	718.5	737.4	766.6	805.8	847.6	907.6	979.1	1043.6	1117.6	1191.6
37.5°	660.2	675.1	690.1	716.0	748.1	793.0	842.2	915.2	986.7	1054.2	1126.5
40°	634.4	643.3	659.7	680.6	714.7	754.6	800.7	872.2	943.6	1010.7	1083.5
42.5°	605.5	615.4	629.3	650.2	680.8	719.6	764.8	826.6	901.2	966.2	1032.4
45°	565.5	571.2	585.0	602.8	628.0	667.3	709.0	764.1	834.2	896.2	954.4
47.5°	525.0	529.9	538.6	554.8	583.1	614.7	653.7	703.1	764.7	826.6	875.8
50°	497.1	501.5	509.8	525.0	550.2	581.2	619.8	664.1	719.1	778.6	819.7
52.5°	469.3	471.7	479.4	496.6	517.8	548.3	582.9	623.6	675.1	724.5	766.0
55°	425.0	430.7	435.8	448.5	468.7	497.7	528.8	567.4	607.2	649.0	684.4
57.5°	378.8	385.1	392.4	403.5	419.6	446.6	474.5	505.7	539.8	574.4	604.1
60°	348.5	354.2	360.5	373.2	387.7	409.2	439.6	466.8	492.7	524.3	554.1
62.5°	318.6	324.3	331.7	341.8	355.8	376.4	401.6	425.3	452.3	479.8	501.9
65°	274.5	278.9	284.6	294.1	307.4	325.7	346.6	365.0	389.0	409.2	429.4
67.5°	226.1	234.6	242.0	249.7	260.9	278.1	293.1	310.7	327.0	342.1	360.5
70°	194.2	203.7	210.6	218.8	229.6	244.2	258.6	270.7	284.0	298.5	315.0
72.5°	167.4	174.8	180.2	189.0	198.8	212.2	225.8	235.8	246.5	256.5	272.5
75°	132.2	135.4	139.2	146.1	155.0	165.1	175.9	184.7	191.0	199.9	211.3
77.5°	95.0	101.1	103.6	108.5	114.9	121.2	128.3	135.7	141.8	145.0	153.7
80°	72.7	75.3	77.8	84.8	88.6	94.9	99.9	106.9	109.4	112.6	120.8
82.5°	56.6	58.1	59.6	61.5	63.8	70.1	75.2	79.5	82.1	83.3	89.4
85°	32.9	33.5	34.1	34.8	35.4	35.4	37.9	41.1	45.6	45.6	47.5
87.5°	13.2	13.6	13.5	12.8	13.6	13.5	13.8	13.5	14.9	16.2	17.5
90°	10.5	9.9	9.1	8.3	7.5	6.7	5.8	4.7	3.6	2.5	1.3
92.5°	18.2	17.9	17.3	16.8	16.2	15.6	14.7	13.5	12.2	10.9	9.7
95°	34.6	34.3	33.7	33.0	32.2	31.5	30.7	29.8	28.9	28.0	27.1
97.5°	54.7	54.3	53.5	52.7	51.8	51.0	50.2	49.5	48.8	48.1	47.4
100°	69.3	69.2	68.2	67.3	66.4	65.5	64.9	64.5	64.1	63.7	63.2
102.5°	84.6	84.3	83.5	82.6	81.8	81.0	80.5	80.3	80.2	80.0	79.9
105°	107.8	107.5	107.1	106.7	106.3	105.9	105.7	105.6	105.4	105.4	105.3
107.5°	133.0	132.8	132.7	132.6	132.5	132.5	132.5	132.3	132.1	132.1	131.9
110°	150.3	150.4	150.6	150.7	150.8	150.8	150.8	150.6	150.4	150.2	150.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	168.1	168.2	168.3	168.5	168.7	168.9	169.0	168.9	168.9	168.8	168.8
115°	196.0	196.1	196.3	196.5	196.7	196.9	197.0	197.0	197.0	197.0	197.0
117.5°	222.9	223.3	223.4	223.6	223.7	223.9	223.9	223.8	223.7	223.6	223.6
120°	241.2	241.7	242.0	242.3	242.6	243.0	242.9	242.5	242.1	241.7	241.3
122.5°	259.4	259.8	259.9	260.1	260.2	260.4	260.3	260.2	260.0	259.8	259.7
125°	286.2	286.5	286.5	286.7	286.8	286.8	286.9	286.9	286.9	286.9	286.9
127.5°	312.0	312.2	312.4	312.5	312.7	312.8	312.8	312.5	312.2	311.9	311.6
130°	330.1	330.3	330.3	330.3	330.3	330.3	330.1	329.9	329.5	329.2	328.9
132.5°	347.1	347.3	347.4	347.5	347.5	347.6	347.5	347.3	347.1	346.9	346.7
135°	372.6	372.7	372.7	372.7	372.7	372.7	372.5	371.9	371.2	370.7	370.0
137.5°	397.3	397.5	397.4	397.2	397.0	396.9	396.6	396.3	396.1	395.8	395.5
140°	413.3	413.4	413.4	413.4	413.4	413.4	413.3	413.1	412.9	412.7	412.5
142.5°	428.6	428.6	428.6	428.7	428.8	428.9	428.9	428.6	428.5	428.3	428.0
145°	451.7	451.8	451.7	451.6	451.5	451.4	451.1	450.8	450.4	450.0	449.6
147.5°	472.6	472.7	472.8	472.9	472.9	473.0	472.9	472.3	471.8	471.3	470.9
150°	485.7	485.7	485.7	485.7	485.7	485.7	485.5	485.1	484.7	484.3	483.9
152.5°	497.9	497.6	497.6	497.5	497.4	497.3	497.2	496.9	496.7	496.5	496.2
155°	515.0	514.6	514.8	514.8	514.9	515.0	515.1	515.1	515.1	515.1	515.1
157.5°	530.4	530.0	530.1	530.1	530.1	530.1	530.3	530.4	530.6	530.8	531.0
160°	539.8	539.5	539.6	539.7	539.8	539.9	540.0	540.1	540.2	540.3	540.3
162.5°	548.0	547.4	547.6	547.6	547.7	547.8	548.0	548.3	548.5	548.8	549.1
165°	559.0	558.5	558.6	558.9	559.0	559.3	559.5	559.8	560.1	560.4	560.7
167.5°	568.5	567.8	567.8	567.8	567.8	567.8	568.0	568.4	568.8	569.3	569.7
170°	573.5	572.9	572.8	572.7	572.6	572.5	572.7	573.2	573.7	574.3	574.7
172.5°	577.2	576.6	576.5	576.5	576.5	576.5	576.6	577.1	577.5	577.9	578.3
175°	581.3	580.6	580.7	580.8	580.9	581.0	581.3	581.8	582.3	582.8	583.3
177.5°	583.7	583.1	583.1	583.1	583.1	583.1	583.3	583.8	584.2	584.6	584.9
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1579.5	1584.0	1589.0	1598.7	1606.8	1610.3	1617.4	1622.5	1621.0	1628.0	1640.1
5°	1585.6	1602.7	1622.3	1642.6	1665.3	1684.3	1699.5	1714.7	1726.7	1741.2	1762.8
7.5°	1584.6	1615.0	1648.0	1684.3	1721.6	1753.9	1783.8	1814.1	1841.0	1870.5	1909.1
10°	1580.6	1621.0	1662.2	1709.6	1757.1	1802.0	1842.5	1880.4	1916.4	1955.0	2003.7
12.5°	1576.0	1622.5	1672.3	1729.3	1788.4	1842.5	1890.0	1944.6	1989.8	2039.6	2095.8
15°	1555.9	1618.5	1686.2	1760.2	1831.1	1903.8	1968.9	2036.0	2098.6	2158.1	2228.9
17.5°	1532.9	1605.1	1685.0	1772.3	1857.5	1945.9	2023.2	2107.7	2171.7	2251.5	2317.3
20°	1514.2	1592.0	1677.4	1775.4	1872.2	1970.2	2055.6	2141.6	2213.7	2294.0	2377.5
22.5°	1491.4	1576.8	1669.3	1770.8	1872.2	1979.3	2073.8	2159.3	2248.6	2339.1	2425.1
25°	1454.7	1543.3	1641.3	1752.6	1869.0	1978.4	2079.6	2185.9	2282.0	2380.0	2457.2
27.5°	1409.7	1502.7	1606.0	1720.9	1840.3	1952.3	2071.6	2184.8	2281.5	2375.8	2443.2
30°	1373.7	1471.8	1571.1	1687.5	1811.4	1931.6	2059.4	2172.6	2274.4	2359.2	2397.1
32.5°	1336.8	1429.8	1532.2	1650.0	1777.0	1906.3	2033.1	2148.8	2243.1	2293.9	2294.9
35°	1272.6	1359.9	1466.1	1581.8	1712.1	1852.5	1980.9	2094.8	2152.4	2156.8	2094.8
37.5°	1202.5	1282.5	1382.8	1498.7	1641.4	1781.1	1912.2	1988.1	2007.4	1943.0	1828.4
40°	1152.4	1226.4	1323.2	1442.1	1583.7	1728.0	1847.5	1903.1	1882.9	1778.5	1650.7
42.5°	1099.8	1168.7	1261.9	1379.3	1521.5	1667.2	1769.1	1798.9	1745.3	1624.8	1475.2
45°	1013.9	1077.1	1169.5	1287.8	1424.3	1561.0	1638.2	1622.9	1533.7	1390.8	1223.2
47.5°	924.5	985.6	1068.7	1178.1	1318.0	1435.8	1488.1	1442.3	1315.4	1158.2	1021.8
50°	865.2	927.9	1004.4	1108.7	1236.5	1350.4	1383.9	1314.3	1173.2	1022.1	896.8
52.5°	807.1	860.5	935.6	1036.4	1158.6	1254.7	1272.6	1192.4	1046.8	911.2	800.2
55°	718.5	767.2	830.4	925.3	1030.9	1112.5	1103.0	1000.0	867.8	752.0	664.7
57.5°	632.9	669.6	728.0	816.9	909.7	964.4	929.8	841.9	718.7	623.9	550.2
60°	576.2	610.4	664.7	742.5	824.1	855.1	826.0	730.6	633.1	546.4	484.5
62.5°	522.5	552.7	599.4	671.7	737.6	756.0	724.8	641.4	553.7	479.7	428.3
65°	444.7	472.5	512.3	563.6	609.1	617.9	597.7	512.3	445.9	383.9	348.5
67.5°	373.9	392.1	423.3	467.5	491.7	496.9	457.8	404.2	345.6	307.5	280.8
70°	326.4	339.0	368.1	392.1	411.8	412.4	376.4	333.4	288.4	257.5	237.8
72.5°	280.4	292.5	314.5	330.9	345.9	341.0	308.0	274.1	237.8	214.4	199.9
75°	216.3	227.0	238.4	246.1	246.1	239.7	215.7	190.4	169.5	155.6	151.1
77.5°	157.2	166.1	169.9	168.7	166.4	156.6	141.4	124.8	117.4	110.8	107.5
80°	123.3	127.1	128.4	125.2	121.4	110.0	99.9	93.0	86.0	83.5	82.2
82.5°	91.4	94.7	91.4	92.4	84.0	74.6	69.1	66.7	63.8	62.7	61.5
85°	48.7	48.1	46.8	43.6	37.9	36.7	36.0	35.4	34.1	34.8	33.5
87.5°	17.2	15.9	14.1	13.8	14.0	13.2	13.8	13.9	14.1	13.8	14.9
90°	2.5	3.6	4.7	5.8	6.7	7.5	8.3	9.1	9.9	10.5	11.2
92.5°	10.9	12.2	13.5	14.7	15.6	16.2	16.8	17.3	17.9	18.2	18.6
95°	28.0	28.9	29.8	30.7	31.5	32.2	33.0	33.7	34.3	34.6	34.9
97.5°	48.1	48.8	49.5	50.2	51.0	51.8	52.7	53.5	54.3	54.7	55.1
100°	63.7	64.1	64.5	64.9	65.5	66.4	67.3	68.2	69.2	69.3	69.6
102.5°	80.0	80.2	80.3	80.5	81.0	81.8	82.6	83.5	84.3	84.6	84.8
105°	105.4	105.4	105.6	105.7	105.9	106.3	106.7	107.1	107.5	107.8	108.1
107.5°	132.1	132.1	132.3	132.5	132.5	132.5	132.6	132.7	132.8	133.0	133.3
110°	150.2	150.4	150.6	150.8	150.8	150.8	150.7	150.6	150.4	150.3	150.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	168.8	168.9	168.9	169.0	168.9	168.7	168.5	168.3	168.2	168.1	168.1
115°	197.0	197.0	197.0	197.0	196.9	196.7	196.5	196.3	196.1	196.0	195.9
117.5°	223.6	223.7	223.8	223.9	223.9	223.7	223.6	223.4	223.3	222.9	222.6
120°	241.7	242.1	242.5	242.9	243.0	242.6	242.3	242.0	241.7	241.2	240.7
122.5°	259.8	260.0	260.2	260.3	260.4	260.2	260.1	259.9	259.8	259.4	259.1
125°	286.9	286.9	286.9	286.9	286.8	286.8	286.7	286.5	286.5	286.2	286.1
127.5°	311.9	312.2	312.5	312.8	312.8	312.7	312.5	312.4	312.2	312.0	311.8
130°	329.2	329.5	329.9	330.1	330.3	330.3	330.3	330.3	330.3	330.1	329.9
132.5°	346.9	347.1	347.3	347.5	347.6	347.5	347.5	347.4	347.3	347.1	346.9
135°	370.7	371.2	371.9	372.5	372.7	372.7	372.7	372.7	372.7	372.6	372.3
137.5°	395.8	396.1	396.3	396.6	396.9	397.0	397.2	397.4	397.5	397.3	397.0
140°	412.7	412.9	413.1	413.3	413.4	413.4	413.4	413.4	413.4	413.3	413.2
142.5°	428.3	428.5	428.6	428.9	428.9	428.8	428.7	428.6	428.6	428.6	428.6
145°	450.0	450.4	450.8	451.1	451.4	451.5	451.6	451.7	451.8	451.7	451.6
147.5°	471.3	471.8	472.3	472.9	473.0	472.9	472.9	472.8	472.7	472.6	472.5
150°	484.3	484.7	485.1	485.5	485.7	485.7	485.7	485.7	485.7	485.7	485.7
152.5°	496.5	496.7	496.9	497.2	497.3	497.4	497.5	497.6	497.6	497.9	498.1
155°	515.1	515.1	515.1	515.1	515.0	514.9	514.8	514.8	514.6	515.0	515.4
157.5°	530.8	530.6	530.4	530.3	530.1	530.1	530.1	530.1	530.0	530.4	530.7
160°	540.3	540.2	540.1	540.0	539.9	539.8	539.7	539.6	539.5	539.8	540.1
162.5°	548.8	548.5	548.3	548.0	547.8	547.7	547.6	547.6	547.4	548.0	548.5
165°	560.4	560.1	559.8	559.5	559.3	559.0	558.9	558.6	558.5	559.0	559.7
167.5°	569.3	568.8	568.4	568.0	567.8	567.8	567.8	567.8	567.8	568.5	569.0
170°	574.3	573.7	573.2	572.7	572.5	572.6	572.7	572.8	572.9	573.5	574.1
172.5°	577.9	577.5	577.1	576.6	576.5	576.5	576.5	576.5	576.6	577.2	577.9
175°	582.8	582.3	581.8	581.3	581.0	580.9	580.8	580.7	580.6	581.3	582.0
177.5°	584.6	584.2	583.8	583.3	583.1	583.1	583.1	583.1	583.1	583.7	584.2
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1646.7	1648.8	1650.3	1655.3	1655.8	1660.4	1655.8
5°	1783.0	1791.8	1805.8	1819.6	1820.9	1829.8	1813.9
7.5°	1935.8	1956.3	1969.0	1991.5	2000.4	2006.0	1996.9
10°	2041.1	2060.0	2093.5	2110.0	2126.5	2128.9	2121.4
12.5°	2142.8	2172.9	2199.3	2230.4	2229.7	2251.9	2243.8
15°	2278.2	2309.2	2345.9	2380.7	2393.3	2393.3	2403.5
17.5°	2374.9	2431.7	2469.6	2497.0	2526.7	2532.0	2528.4
20°	2440.2	2501.5	2542.0	2577.4	2597.6	2603.3	2603.3
22.5°	2488.7	2540.9	2580.5	2612.3	2629.0	2635.7	2633.7
25°	2522.4	2567.2	2591.3	2600.8	2605.2	2604.0	2591.9
27.5°	2476.3	2474.3	2459.1	2430.0	2408.2	2394.8	2379.6
30°	2388.3	2355.4	2317.5	2275.7	2221.9	2180.8	2168.1
32.5°	2257.2	2183.3	2119.1	2049.5	1991.7	1950.6	1933.4
35°	2003.7	1886.7	1791.2	1707.7	1647.0	1609.1	1596.4
37.5°	1702.9	1589.7	1471.4	1390.4	1340.1	1301.8	1287.5
40°	1511.6	1388.3	1285.2	1209.3	1157.5	1120.1	1119.5
42.5°	1337.0	1219.3	1122.3	1067.6	1011.7	987.1	986.9
45°	1094.8	1000.6	918.4	875.4	841.9	821.6	815.9
47.5°	906.5	828.5	773.8	739.5	712.2	699.3	690.9
50°	800.7	732.5	688.8	659.0	643.9	627.4	626.1
52.5°	712.6	657.5	623.5	599.4	580.1	570.2	570.5
55°	599.0	555.3	531.3	512.9	497.7	490.2	487.0
57.5°	504.6	471.8	454.4	437.5	431.1	425.2	423.5
60°	445.9	423.7	407.3	394.0	384.5	382.6	382.0
62.5°	397.4	374.1	362.8	352.5	345.6	342.7	341.5
65°	327.6	310.5	300.4	292.2	289.7	285.3	284.6
67.5°	264.1	253.9	247.2	241.5	238.1	237.8	237.8
70°	225.1	219.4	213.8	210.6	208.7	207.5	207.5
72.5°	191.8	187.6	182.9	181.3	180.9	179.6	179.1
75°	146.1	141.6	142.3	139.2	136.7	133.5	131.6
77.5°	103.6	100.4	99.8	99.4	97.3	96.9	97.9
80°	80.3	77.2	76.5	77.2	76.5	74.6	74.6
82.5°	61.1	58.5	57.8	57.4	56.8	57.4	56.4
85°	32.9	31.6	31.6	31.6	32.9	32.2	31.6
87.5°	14.0	13.6	14.2	13.7	13.8	13.3	13.9
90°	11.7	12.4	12.8	13.0	13.2	13.4	13.5
92.5°	19.0	19.3	19.6	19.7	19.8	20.0	20.0
95°	35.3	35.6	35.7	35.7	35.7	35.7	35.7
97.5°	55.4	55.8	55.9	55.9	55.9	55.9	55.9
100°	69.7	69.9	70.0	70.0	70.0	70.0	70.0
102.5°	85.2	85.4	85.6	85.7	85.8	85.9	86.0
105°	108.4	108.8	109.0	109.3	109.6	110.0	110.3
107.5°	133.6	133.9	134.0	134.0	134.0	134.0	134.0
110°	149.9	149.6	149.7	150.0	150.3	150.6	150.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	168.0	168.0	168.0	168.1	168.1	168.2	168.3
115°	195.8	195.7	195.6	195.5	195.4	195.3	195.2
117.5°	222.3	221.9	221.7	221.4	221.3	221.0	220.9
120°	240.2	239.7	239.6	239.8	240.0	240.2	240.3
122.5°	258.8	258.4	258.1	257.7	257.4	257.0	256.7
125°	285.8	285.7	285.4	285.3	285.0	284.9	284.6
127.5°	311.6	311.4	311.2	311.1	310.9	310.8	310.6
130°	329.7	329.5	329.2	328.8	328.4	328.0	327.6
132.5°	346.7	346.5	346.3	346.1	345.9	345.8	345.6
135°	372.2	371.9	371.7	371.4	371.1	370.8	370.5
137.5°	396.7	396.5	396.3	396.4	396.5	396.6	396.6
140°	413.1	413.0	412.9	412.8	412.7	412.6	412.5
142.5°	428.6	428.5	428.5	428.5	428.5	428.4	428.4
145°	451.5	451.4	451.2	450.9	450.6	450.3	450.0
147.5°	472.5	472.4	472.3	472.2	472.1	472.0	471.9
150°	485.7	485.7	485.7	485.5	485.4	485.4	485.3
152.5°	498.4	498.6	498.6	498.4	498.0	497.8	497.6
155°	515.8	516.3	516.3	515.8	515.4	515.0	514.6
157.5°	531.0	531.3	531.2	530.9	530.6	530.2	529.9
160°	540.3	540.7	540.6	540.1	539.6	539.1	538.6
162.5°	549.1	549.6	549.6	549.1	548.6	548.1	547.6
165°	560.2	560.9	560.9	560.5	560.2	559.8	559.4
167.5°	569.7	570.3	570.2	569.7	569.0	568.4	567.8
170°	574.7	575.3	575.3	574.6	573.9	573.1	572.4
172.5°	578.6	579.2	579.2	578.5	577.8	577.1	576.5
175°	582.7	583.4	583.4	582.7	582.0	581.3	580.6
177.5°	584.8	585.3	585.3	584.7	584.1	583.4	582.7
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2

(END OF REPORT)