

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: P332987-927

Luminaire Tested: **SA4XXRDIP-C1195D365U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332987-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1195D365U927-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5005.4 lumens
Efficiency: N/A
Efficacy: 100.5 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

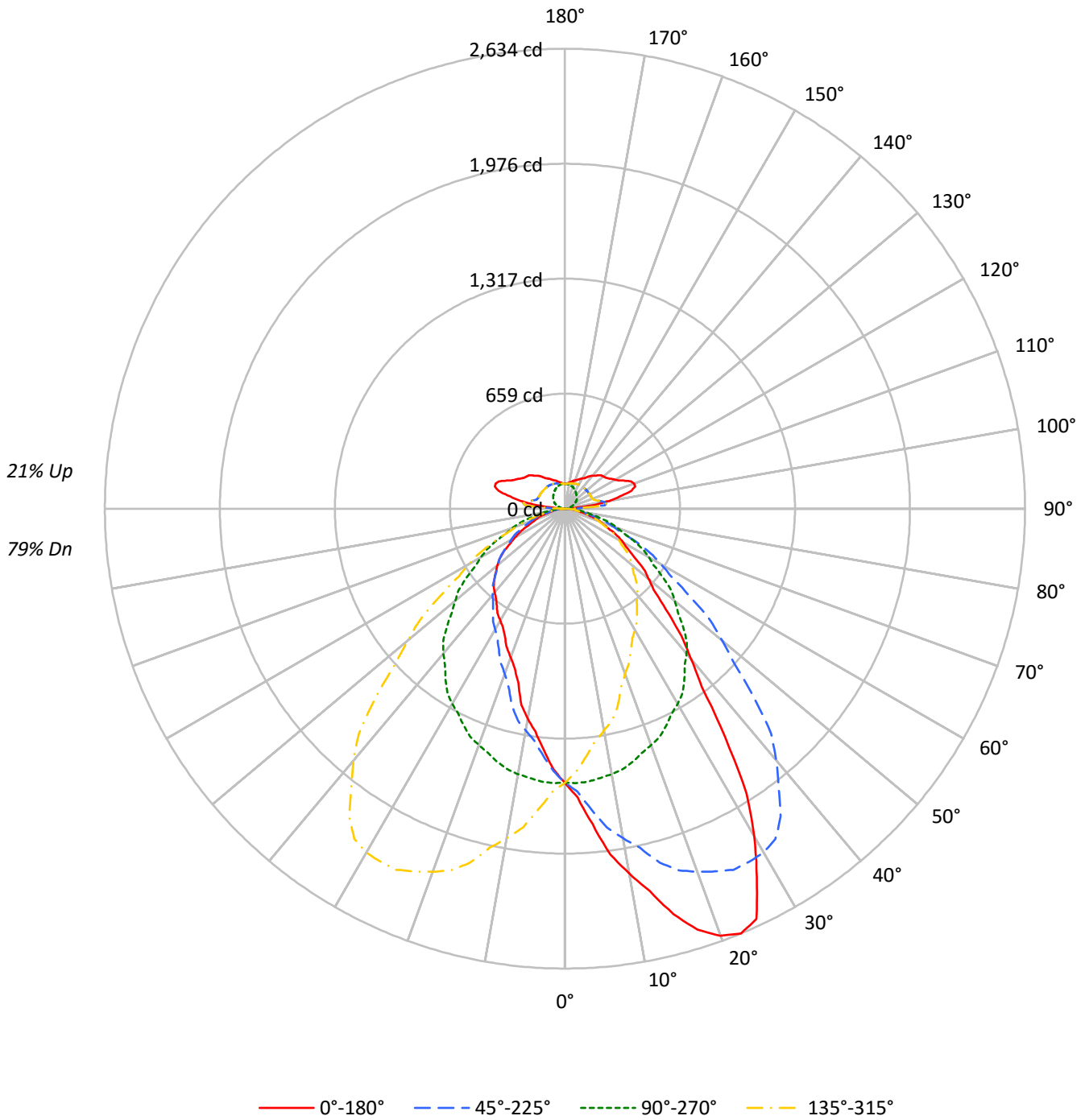
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	79
1	105	101	97	94	100	97	93	90	89	86	84	81	79	77	75	73	72	68
2	96	89	83	78	92	85	80	75	79	74	70	72	69	66	67	64	61	58
3	88	79	72	66	84	76	69	64	70	65	60	65	60	57	60	56	53	50
4	81	70	62	56	77	68	60	55	63	57	52	58	53	49	54	50	46	44
5	75	63	55	49	71	61	53	48	57	50	45	52	47	43	49	44	41	38
6	69	57	49	43	66	55	48	42	51	45	40	48	42	38	44	40	36	34
7	64	52	44	38	62	50	43	37	47	40	36	44	38	34	41	36	32	30
8	60	47	40	34	57	46	38	33	43	37	32	40	35	31	37	33	29	27
9	56	44	36	31	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	53	40	33	28	50	39	32	27	37	30	26	34	29	25	32	28	24	22

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	3.0
10°-20°	458.8	9.2
20°-30°	717.6	14.3
30°-40°	797.8	15.9
40°-50°	707.8	14.1
50°-60°	551.5	11.0
60°-70°	361.1	7.2
70°-80°	177.6	3.5
80°-90°	44.6	0.9
90°-100°	102.9	2.1
100°-110°	214.2	4.3
110°-120°	191.9	3.8
120°-130°	161.4	3.2
130°-140°	134.6	2.7
140°-150°	102.8	2.1
150°-160°	72.3	1.4
160°-170°	42.5	0.8
170°-180°	13.8	0.3
0°-30°	1328.5	26.5
0°-40°	2126.3	42.5
0°-60°	3385.7	67.6
0°-90°	3968.9	79.3
90°-120°	509.0	10.2
90°-150°	907.8	18.1
90°-180°	1036.0	20.7
0°-180°	5005.4	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°	6	0	6	0	6	6
95°	68	9	68	9	68	106
105°	394	33	394	33	394	389
115°	378	58	378	58	378	375
125°	302	80	302	80	302	274
135°	270	96	270	96	270	208
145°	220	110	220	110	220	140
155°	184	125	184	125	184	86
165°	161	136	161	136	161	46
175°	145	142	145	142	145	14
180°	142	142	142	142	142	



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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°	12.3	11.8	12.4	12.3	12.8	12.3	12.7	13.6	12.6	13.2	13.1
90°	5.9	5.9	6.2	5.9	5.6	5.6	5.3	5.1	4.8	5.1	4.5
92.5°	21.5	21.5	22.5	24.0	27.3	33.0	41.4	55.0	74.0	88.8	77.7
95°	68.3	71.9	77.0	85.6	99.4	126.5	164.1	207.5	234.6	228.1	172.2
97.5°	182.6	188.5	196.9	213.7	233.8	263.0	290.4	306.5	294.8	240.3	161.1
100°	256.7	259.0	267.4	284.5	308.8	329.5	343.3	337.6	296.8	225.1	146.2
102.5°	321.2	323.1	331.9	344.3	359.2	367.8	363.8	336.1	280.0	206.0	136.1
105°	394.0	395.6	399.5	401.8	401.2	389.8	362.0	313.5	249.5	183.6	127.4
107.5°	420.9	420.2	417.4	411.0	397.2	372.2	333.2	281.6	224.8	171.1	125.8
110°	421.4	418.8	413.8	402.0	382.1	351.4	310.8	262.4	212.5	166.8	126.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	408.1	404.1	397.0	382.8	360.2	329.4	291.0	248.2	205.6	164.9	127.6
115°	378.3	376.0	367.0	350.2	328.1	301.3	268.5	234.1	199.1	163.8	130.2
117.5°	347.9	346.2	337.2	323.1	304.2	281.4	255.6	227.1	196.1	163.5	132.9
120°	331.0	327.9	320.6	308.2	292.3	272.4	250.0	223.9	194.6	163.5	135.0
122.5°	317.5	314.4	308.2	297.7	284.2	266.8	246.4	221.3	192.8	163.3	137.0
125°	301.8	300.2	294.9	286.7	275.5	260.1	240.7	216.7	189.8	163.0	140.0
127.5°	292.6	291.0	286.5	279.2	268.0	253.4	234.1	211.1	185.8	162.3	142.4
130°	287.2	285.6	281.1	274.1	262.6	247.8	228.8	206.6	183.4	162.1	144.2
132.5°	281.2	279.6	275.3	267.4	256.1	241.3	222.7	201.9	181.2	161.9	145.8
135°	269.9	268.2	263.7	255.9	244.7	230.7	213.7	195.4	177.8	161.5	148.1
137.5°	255.9	253.9	250.2	242.5	232.0	219.4	204.9	189.6	174.9	161.5	149.5
140°	245.8	243.6	239.6	233.5	223.7	211.9	199.3	186.2	173.3	161.3	150.6
142.5°	235.0	233.5	230.0	224.3	215.6	205.4	194.6	183.1	172.0	161.3	151.5
145°	220.3	219.0	216.1	211.4	204.4	196.5	188.1	178.6	169.7	160.7	152.0
147.5°	207.3	206.8	204.7	200.6	195.4	189.3	182.5	175.0	167.6	159.7	152.3
150°	199.9	199.6	198.0	194.3	189.8	184.8	179.2	172.8	166.0	159.0	152.3
152.5°	193.2	192.9	191.9	188.9	185.1	181.0	175.9	170.3	164.2	157.9	151.9
155°	184.5	184.5	183.6	181.4	178.6	175.2	171.0	166.6	161.5	156.2	151.2
157.5°	176.9	176.9	176.4	174.7	172.6	169.9	166.4	162.6	158.8	154.5	150.4
160°	172.2	172.2	171.9	170.2	168.6	166.3	163.2	160.2	156.8	153.1	149.8
162.5°	167.7	167.9	167.6	166.0	164.8	162.7	160.3	157.7	155.0	151.8	149.1
165°	161.0	161.3	161.5	160.4	159.3	157.9	156.0	154.2	152.0	149.8	147.8
167.5°	155.7	155.9	156.0	155.2	154.6	153.8	152.3	151.0	149.3	147.7	146.5
170°	152.3	152.3	152.6	152.3	151.8	150.9	149.8	148.9	147.6	146.4	145.6
172.5°	148.9	149.4	149.6	149.4	149.1	148.5	147.7	147.2	146.0	145.0	144.7
175°	145.0	145.6	146.2	145.6	145.6	145.6	145.0	144.7	144.2	143.6	143.6
177.5°	142.8	143.1	143.6	143.4	143.6	143.4	143.4	143.1	143.0	142.8	142.8
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



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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°	12.9	12.4	13.1	13.1	13.5	15.5	16.9	17.3	15.8	14.5	13.1
90°	3.9	3.9	2.2	2.2	2.0	1.7	0.9	0.3	0.9	1.7	2.0
92.5°	56.6	34.9	20.6	14.8	10.7	7.3	4.7	3.2	4.7	7.3	10.7
95°	105.3	59.3	35.0	23.2	16.6	12.9	10.1	9.3	10.1	12.9	16.6
97.5°	94.7	56.7	37.9	28.1	22.3	19.0	16.6	16.6	16.6	19.0	22.3
100°	89.0	57.4	40.9	31.9	26.6	23.2	21.3	21.3	21.3	23.2	26.6
102.5°	87.5	59.7	44.7	36.2	31.1	28.0	26.2	25.7	26.2	28.0	31.1
105°	88.2	65.0	51.5	43.4	38.3	35.0	33.6	32.8	33.6	35.0	38.3
107.5°	92.4	71.1	58.9	50.9	46.0	42.5	41.0	40.5	41.0	42.5	46.0
110°	95.5	75.9	63.5	56.0	50.9	47.6	46.2	45.6	46.2	47.6	50.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	98.9	80.3	68.4	60.9	55.8	52.8	51.1	50.5	51.1	52.8	55.8
115°	104.2	87.4	76.1	68.6	63.3	60.4	58.5	57.7	58.5	60.4	63.3
117.5°	109.6	94.1	83.5	75.7	70.7	67.6	65.8	65.0	65.8	67.6	70.7
120°	113.4	98.9	88.2	80.3	75.6	72.5	70.6	70.0	70.6	72.5	75.6
122.5°	117.0	103.3	92.7	85.1	79.9	77.0	75.0	74.5	75.0	77.0	79.9
125°	122.3	109.5	99.4	91.6	86.3	83.2	81.4	80.3	81.4	83.2	86.3
127.5°	127.0	115.2	105.4	97.5	92.0	88.5	86.4	85.6	86.4	88.5	92.0
130°	129.9	119.0	109.5	101.3	96.0	91.8	89.6	88.5	89.6	91.8	96.0
132.5°	132.8	122.2	112.6	105.0	99.2	95.2	92.3	91.4	92.3	95.2	99.2
135°	136.7	126.5	117.3	110.0	104.2	99.4	96.6	95.5	96.6	99.4	104.2
137.5°	139.3	129.9	121.3	114.3	108.2	103.7	100.6	99.6	100.6	103.7	108.2
140°	141.1	132.1	123.7	117.0	111.1	106.4	103.3	102.5	103.3	106.4	111.1
142.5°	142.4	134.2	126.0	119.5	113.8	109.3	106.5	105.6	106.5	109.3	113.8
145°	143.9	136.3	129.0	122.9	117.6	113.7	110.9	110.0	110.9	113.7	117.6
147.5°	145.2	138.6	131.7	126.2	121.8	117.8	115.3	115.0	115.3	117.8	121.8
150°	145.8	139.7	133.6	128.3	124.1	120.6	118.4	118.1	118.4	120.6	124.1
152.5°	146.3	140.6	135.1	130.2	126.5	123.3	121.1	121.0	121.1	123.3	126.5
155°	146.7	142.0	137.2	133.0	129.9	127.1	125.4	125.2	125.4	127.1	129.9
157.5°	146.7	142.9	138.9	135.5	132.8	130.7	129.1	129.1	129.1	130.7	132.8
160°	146.7	143.4	140.0	136.9	134.7	132.7	131.6	131.6	131.6	132.7	134.7
162.5°	146.7	143.8	140.7	138.2	136.3	134.5	133.6	133.8	133.6	134.5	136.3
165°	146.2	143.9	141.4	139.7	138.3	136.9	136.3	136.3	136.3	136.9	138.3
167.5°	145.4	143.9	142.0	140.7	139.9	138.9	138.6	138.9	138.6	138.9	139.9
170°	145.0	143.6	142.2	141.4	140.9	140.0	139.7	140.0	139.7	140.0	140.9
172.5°	144.6	143.4	142.4	141.8	141.5	140.9	140.9	141.1	140.9	140.9	141.5
175°	143.9	143.1	142.5	142.5	142.2	142.0	142.0	142.2	142.0	142.0	142.2
177.5°	143.1	142.8	142.5	142.5	142.5	142.3	142.5	142.8	142.5	142.3	142.5
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



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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°	13.1	12.6	12.9	11.9	12.5	12.7	12.1	12.1	12.7	11.7	11.7
90°	2.2	2.2	3.9	3.9	4.5	5.1	4.8	5.1	5.3	5.6	5.6
92.5°	14.8	20.6	34.9	56.6	77.7	88.8	74.0	55.0	41.4	33.0	27.3
95°	23.2	35.0	59.3	105.3	172.2	228.1	234.6	207.5	164.1	126.5	99.4
97.5°	28.1	37.9	56.7	94.7	161.1	240.3	294.8	306.5	290.4	263.0	233.8
100°	31.9	40.9	57.4	89.0	146.2	225.1	296.8	337.6	343.3	329.5	308.8
102.5°	36.2	44.7	59.7	87.5	136.1	206.0	280.0	336.1	363.8	367.8	359.2
105°	43.4	51.5	65.0	88.2	127.4	183.6	249.5	313.5	362.0	389.8	401.2
107.5°	50.9	58.9	71.1	92.4	125.8	171.1	224.8	281.6	333.2	372.2	397.2
110°	56.0	63.5	75.9	95.5	126.3	166.8	212.5	262.4	310.8	351.4	382.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	60.9	68.4	80.3	98.9	127.6	164.9	205.6	248.2	291.0	329.4	360.2
115°	68.6	76.1	87.4	104.2	130.2	163.8	199.1	234.1	268.5	301.3	328.1
117.5°	75.7	83.5	94.1	109.6	132.9	163.5	196.1	227.1	255.6	281.4	304.2
120°	80.3	88.2	98.9	113.4	135.0	163.5	194.6	223.9	250.0	272.4	292.3
122.5°	85.1	92.7	103.3	117.0	137.0	163.3	192.8	221.3	246.4	266.8	284.2
125°	91.6	99.4	109.5	122.3	140.0	163.0	189.8	216.7	240.7	260.1	275.5
127.5°	97.5	105.4	115.2	127.0	142.4	162.3	185.8	211.1	234.1	253.4	268.0
130°	101.3	109.5	119.0	129.9	144.2	162.1	183.4	206.6	228.8	247.8	262.6
132.5°	105.0	112.6	122.2	132.8	145.8	161.9	181.2	201.9	222.7	241.3	256.1
135°	110.0	117.3	126.5	136.7	148.1	161.5	177.8	195.4	213.7	230.7	244.7
137.5°	114.3	121.3	129.9	139.3	149.5	161.5	174.9	189.6	204.9	219.4	232.0
140°	117.0	123.7	132.1	141.1	150.6	161.3	173.3	186.2	199.3	211.9	223.7
142.5°	119.5	126.0	134.2	142.4	151.5	161.3	172.0	183.1	194.6	205.4	215.6
145°	122.9	129.0	136.3	143.9	152.0	160.7	169.7	178.6	188.1	196.5	204.4
147.5°	126.2	131.7	138.6	145.2	152.3	159.7	167.6	175.0	182.5	189.3	195.4
150°	128.3	133.6	139.7	145.8	152.3	159.0	166.0	172.8	179.2	184.8	189.8
152.5°	130.2	135.1	140.6	146.3	151.9	157.9	164.2	170.3	175.9	181.0	185.1
155°	133.0	137.2	142.0	146.7	151.2	156.2	161.5	166.6	171.0	175.2	178.6
157.5°	135.5	138.9	142.9	146.7	150.4	154.5	158.8	162.6	166.4	169.9	172.6
160°	136.9	140.0	143.4	146.7	149.8	153.1	156.8	160.2	163.2	166.3	168.6
162.5°	138.2	140.7	143.8	146.7	149.1	151.8	155.0	157.7	160.3	162.7	164.8
165°	139.7	141.4	143.9	146.2	147.8	149.8	152.0	154.2	156.0	157.9	159.3
167.5°	140.7	142.0	143.9	145.4	146.5	147.7	149.3	151.0	152.3	153.8	154.6
170°	141.4	142.2	143.6	145.0	145.6	146.4	147.6	148.9	149.8	150.9	151.8
172.5°	141.8	142.4	143.4	144.6	144.7	145.0	146.0	147.2	147.7	148.5	149.1
175°	142.5	142.5	143.1	143.9	143.6	143.6	144.2	144.7	145.0	145.6	145.6
177.5°	142.5	142.5	142.8	143.1	142.8	142.8	143.0	143.1	143.4	143.4	143.6
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



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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°	12.8	12.4	11.8	12.3	11.8	12.4	12.8	11.7	11.7	12.7	12.1
90°	5.9	6.2	5.9	5.9	5.9	6.2	5.9	5.6	5.6	5.3	5.1
92.5°	24.0	22.5	21.5	21.5	21.5	22.5	24.0	27.3	33.0	41.4	55.0
95°	85.6	77.0	71.9	68.3	71.9	77.0	85.6	99.4	126.5	164.1	207.5
97.5°	213.7	196.9	188.5	182.6	188.5	196.9	213.7	233.8	263.0	290.4	306.5
100°	284.5	267.4	259.0	256.7	259.0	267.4	284.5	308.8	329.5	343.3	337.6
102.5°	344.3	331.9	323.1	321.2	323.1	331.9	344.3	359.2	367.8	363.8	336.1
105°	401.8	399.5	395.6	394.0	395.6	399.5	401.8	401.2	389.8	362.0	313.5
107.5°	411.0	417.4	420.2	420.9	420.2	417.4	411.0	397.2	372.2	333.2	281.6
110°	402.0	413.8	418.8	421.4	418.8	413.8	402.0	382.1	351.4	310.8	262.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	382.8	397.0	404.1	408.1	404.1	397.0	382.8	360.2	329.4	291.0	248.2
115°	350.2	367.0	376.0	378.3	376.0	367.0	350.2	328.1	301.3	268.5	234.1
117.5°	323.1	337.2	346.2	347.9	346.2	337.2	323.1	304.2	281.4	255.6	227.1
120°	308.2	320.6	327.9	331.0	327.9	320.6	308.2	292.3	272.4	250.0	223.9
122.5°	297.7	308.2	314.4	317.5	314.4	308.2	297.7	284.2	266.8	246.4	221.3
125°	286.7	294.9	300.2	301.8	300.2	294.9	286.7	275.5	260.1	240.7	216.7
127.5°	279.2	286.5	291.0	292.6	291.0	286.5	279.2	268.0	253.4	234.1	211.1
130°	274.1	281.1	285.6	287.2	285.6	281.1	274.1	262.6	247.8	228.8	206.6
132.5°	267.4	275.3	279.6	281.2	279.6	275.3	267.4	256.1	241.3	222.7	201.9
135°	255.9	263.7	268.2	269.9	268.2	263.7	255.9	244.7	230.7	213.7	195.4
137.5°	242.5	250.2	253.9	255.9	253.9	250.2	242.5	232.0	219.4	204.9	189.6
140°	233.5	239.6	243.6	245.8	243.6	239.6	233.5	223.7	211.9	199.3	186.2
142.5°	224.3	230.0	233.5	235.0	233.5	230.0	224.3	215.6	205.4	194.6	183.1
145°	211.4	216.1	219.0	220.3	219.0	216.1	211.4	204.4	196.5	188.1	178.6
147.5°	200.6	204.7	206.8	207.3	206.8	204.7	200.6	195.4	189.3	182.5	175.0
150°	194.3	198.0	199.6	199.9	199.6	198.0	194.3	189.8	184.8	179.2	172.8
152.5°	188.9	191.9	192.9	193.2	192.9	191.9	188.9	185.1	181.0	175.9	170.3
155°	181.4	183.6	184.5	184.5	184.5	183.6	181.4	178.6	175.2	171.0	166.6
157.5°	174.7	176.4	176.9	176.9	176.9	176.4	174.7	172.6	169.9	166.4	162.6
160°	170.2	171.9	172.2	172.2	172.2	171.9	170.2	168.6	166.3	163.2	160.2
162.5°	166.0	167.6	167.9	167.7	167.9	167.6	166.0	164.8	162.7	160.3	157.7
165°	160.4	161.5	161.3	161.0	161.3	161.5	160.4	159.3	157.9	156.0	154.2
167.5°	155.2	156.0	155.9	155.7	155.9	156.0	155.2	154.6	153.8	152.3	151.0
170°	152.3	152.6	152.3	152.3	152.3	152.6	152.3	151.8	150.9	149.8	148.9
172.5°	149.4	149.6	149.4	148.9	149.4	149.6	149.4	149.1	148.5	147.7	147.2
175°	145.6	146.2	145.6	145.0	145.6	146.2	145.6	145.6	145.6	145.0	144.7
177.5°	143.4	143.6	143.1	142.8	143.1	143.6	143.4	143.6	143.4	143.4	143.1
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P332987-927

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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°	12.1	12.7	12.5	11.9	12.9	12.6	13.1	13.1	14.5	15.8	17.3
90°	4.8	5.1	4.5	3.9	3.9	2.2	2.2	2.0	1.7	0.9	0.3
92.5°	74.0	88.8	77.7	56.6	34.9	20.6	14.8	10.7	7.3	4.7	3.2
95°	234.6	228.1	172.2	105.3	59.3	35.0	23.2	16.6	12.9	10.1	9.3
97.5°	294.8	240.3	161.1	94.7	56.7	37.9	28.1	22.3	19.0	16.6	16.6
100°	296.8	225.1	146.2	89.0	57.4	40.9	31.9	26.6	23.2	21.3	21.3
102.5°	280.0	206.0	136.1	87.5	59.7	44.7	36.2	31.1	28.0	26.2	25.7
105°	249.5	183.6	127.4	88.2	65.0	51.5	43.4	38.3	35.0	33.6	32.8
107.5°	224.8	171.1	125.8	92.4	71.1	58.9	50.9	46.0	42.5	41.0	40.5
110°	212.5	166.8	126.3	95.5	75.9	63.5	56.0	50.9	47.6	46.2	45.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	205.6	164.9	127.6	98.9	80.3	68.4	60.9	55.8	52.8	51.1	50.5
115°	199.1	163.8	130.2	104.2	87.4	76.1	68.6	63.3	60.4	58.5	57.7
117.5°	196.1	163.5	132.9	109.6	94.1	83.5	75.7	70.7	67.6	65.8	65.0
120°	194.6	163.5	135.0	113.4	98.9	88.2	80.3	75.6	72.5	70.6	70.0
122.5°	192.8	163.3	137.0	117.0	103.3	92.7	85.1	79.9	77.0	75.0	74.5
125°	189.8	163.0	140.0	122.3	109.5	99.4	91.6	86.3	83.2	81.4	80.3
127.5°	185.8	162.3	142.4	127.0	115.2	105.4	97.5	92.0	88.5	86.4	85.6
130°	183.4	162.1	144.2	129.9	119.0	109.5	101.3	96.0	91.8	89.6	88.5
132.5°	181.2	161.9	145.8	132.8	122.2	112.6	105.0	99.2	95.2	92.3	91.4
135°	177.8	161.5	148.1	136.7	126.5	117.3	110.0	104.2	99.4	96.6	95.5
137.5°	174.9	161.5	149.5	139.3	129.9	121.3	114.3	108.2	103.7	100.6	99.6
140°	173.3	161.3	150.6	141.1	132.1	123.7	117.0	111.1	106.4	103.3	102.5
142.5°	172.0	161.3	151.5	142.4	134.2	126.0	119.5	113.8	109.3	106.5	105.6
145°	169.7	160.7	152.0	143.9	136.3	129.0	122.9	117.6	113.7	110.9	110.0
147.5°	167.6	159.7	152.3	145.2	138.6	131.7	126.2	121.8	117.8	115.3	115.0
150°	166.0	159.0	152.3	145.8	139.7	133.6	128.3	124.1	120.6	118.4	118.1
152.5°	164.2	157.9	151.9	146.3	140.6	135.1	130.2	126.5	123.3	121.1	121.0
155°	161.5	156.2	151.2	146.7	142.0	137.2	133.0	129.9	127.1	125.4	125.2
157.5°	158.8	154.5	150.4	146.7	142.9	138.9	135.5	132.8	130.7	129.1	129.1
160°	156.8	153.1	149.8	146.7	143.4	140.0	136.9	134.7	132.7	131.6	131.6
162.5°	155.0	151.8	149.1	146.7	143.8	140.7	138.2	136.3	134.5	133.6	133.8
165°	152.0	149.8	147.8	146.2	143.9	141.4	139.7	138.3	136.9	136.3	136.3
167.5°	149.3	147.7	146.5	145.4	143.9	142.0	140.7	139.9	138.9	138.6	138.9
170°	147.6	146.4	145.6	145.0	143.6	142.2	141.4	140.9	140.0	139.7	140.0
172.5°	146.0	145.0	144.7	144.6	143.4	142.4	141.8	141.5	140.9	140.9	141.1
175°	144.2	143.6	143.6	143.9	143.1	142.5	142.5	142.2	142.0	142.0	142.2
177.5°	143.0	142.8	142.8	143.1	142.8	142.5	142.5	142.5	142.3	142.5	142.8
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



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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°	16.9	15.5	13.5	13.1	13.1	12.4	12.9	13.1	13.2	12.6	13.6
90°	0.9	1.7	2.0	2.2	2.2	3.9	3.9	4.5	5.1	4.8	5.1
92.5°	4.7	7.3	10.7	14.8	20.6	34.9	56.6	77.7	88.8	74.0	55.0
95°	10.1	12.9	16.6	23.2	35.0	59.3	105.3	172.2	228.1	234.6	207.5
97.5°	16.6	19.0	22.3	28.1	37.9	56.7	94.7	161.1	240.3	294.8	306.5
100°	21.3	23.2	26.6	31.9	40.9	57.4	89.0	146.2	225.1	296.8	337.6
102.5°	26.2	28.0	31.1	36.2	44.7	59.7	87.5	136.1	206.0	280.0	336.1
105°	33.6	35.0	38.3	43.4	51.5	65.0	88.2	127.4	183.6	249.5	313.5
107.5°	41.0	42.5	46.0	50.9	58.9	71.1	92.4	125.8	171.1	224.8	281.6
110°	46.2	47.6	50.9	56.0	63.5	75.9	95.5	126.3	166.8	212.5	262.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	51.1	52.8	55.8	60.9	68.4	80.3	98.9	127.6	164.9	205.6	248.2
115°	58.5	60.4	63.3	68.6	76.1	87.4	104.2	130.2	163.8	199.1	234.1
117.5°	65.8	67.6	70.7	75.7	83.5	94.1	109.6	132.9	163.5	196.1	227.1
120°	70.6	72.5	75.6	80.3	88.2	98.9	113.4	135.0	163.5	194.6	223.9
122.5°	75.0	77.0	79.9	85.1	92.7	103.3	117.0	137.0	163.3	192.8	221.3
125°	81.4	83.2	86.3	91.6	99.4	109.5	122.3	140.0	163.0	189.8	216.7
127.5°	86.4	88.5	92.0	97.5	105.4	115.2	127.0	142.4	162.3	185.8	211.1
130°	89.6	91.8	96.0	101.3	109.5	119.0	129.9	144.2	162.1	183.4	206.6
132.5°	92.3	95.2	99.2	105.0	112.6	122.2	132.8	145.8	161.9	181.2	201.9
135°	96.6	99.4	104.2	110.0	117.3	126.5	136.7	148.1	161.5	177.8	195.4
137.5°	100.6	103.7	108.2	114.3	121.3	129.9	139.3	149.5	161.5	174.9	189.6
140°	103.3	106.4	111.1	117.0	123.7	132.1	141.1	150.6	161.3	173.3	186.2
142.5°	106.5	109.3	113.8	119.5	126.0	134.2	142.4	151.5	161.3	172.0	183.1
145°	110.9	113.7	117.6	122.9	129.0	136.3	143.9	152.0	160.7	169.7	178.6
147.5°	115.3	117.8	121.8	126.2	131.7	138.6	145.2	152.3	159.7	167.6	175.0
150°	118.4	120.6	124.1	128.3	133.6	139.7	145.8	152.3	159.0	166.0	172.8
152.5°	121.1	123.3	126.5	130.2	135.1	140.6	146.3	151.9	157.9	164.2	170.3
155°	125.4	127.1	129.9	133.0	137.2	142.0	146.7	151.2	156.2	161.5	166.6
157.5°	129.1	130.7	132.8	135.5	138.9	142.9	146.7	150.4	154.5	158.8	162.6
160°	131.6	132.7	134.7	136.9	140.0	143.4	146.7	149.8	153.1	156.8	160.2
162.5°	133.6	134.5	136.3	138.2	140.7	143.8	146.7	149.1	151.8	155.0	157.7
165°	136.3	136.9	138.3	139.7	141.4	143.9	146.2	147.8	149.8	152.0	154.2
167.5°	138.6	138.9	139.9	140.7	142.0	143.9	145.4	146.5	147.7	149.3	151.0
170°	139.7	140.0	140.9	141.4	142.2	143.6	145.0	145.6	146.4	147.6	148.9
172.5°	140.9	140.9	141.5	141.8	142.4	143.4	144.6	144.7	145.0	146.0	147.2
175°	142.0	142.0	142.2	142.5	142.5	143.1	143.9	143.6	143.6	144.2	144.7
177.5°	142.5	142.3	142.5	142.5	142.5	142.8	143.1	142.8	142.8	143.0	143.1
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



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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°	12.7	12.3	12.8	12.3	12.4	11.8	12.3
90°	5.3	5.6	5.6	5.9	6.2	5.9	5.9
92.5°	41.4	33.0	27.3	24.0	22.5	21.5	21.5
95°	164.1	126.5	99.4	85.6	77.0	71.9	68.3
97.5°	290.4	263.0	233.8	213.7	196.9	188.5	182.6
100°	343.3	329.5	308.8	284.5	267.4	259.0	256.7
102.5°	363.8	367.8	359.2	344.3	331.9	323.1	321.2
105°	362.0	389.8	401.2	401.8	399.5	395.6	394.0
107.5°	333.2	372.2	397.2	411.0	417.4	420.2	420.9
110°	310.8	351.4	382.1	402.0	413.8	418.8	421.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	291.0	329.4	360.2	382.8	397.0	404.1	408.1
115°	268.5	301.3	328.1	350.2	367.0	376.0	378.3
117.5°	255.6	281.4	304.2	323.1	337.2	346.2	347.9
120°	250.0	272.4	292.3	308.2	320.6	327.9	331.0
122.5°	246.4	266.8	284.2	297.7	308.2	314.4	317.5
125°	240.7	260.1	275.5	286.7	294.9	300.2	301.8
127.5°	234.1	253.4	268.0	279.2	286.5	291.0	292.6
130°	228.8	247.8	262.6	274.1	281.1	285.6	287.2
132.5°	222.7	241.3	256.1	267.4	275.3	279.6	281.2
135°	213.7	230.7	244.7	255.9	263.7	268.2	269.9
137.5°	204.9	219.4	232.0	242.5	250.2	253.9	255.9
140°	199.3	211.9	223.7	233.5	239.6	243.6	245.8
142.5°	194.6	205.4	215.6	224.3	230.0	233.5	235.0
145°	188.1	196.5	204.4	211.4	216.1	219.0	220.3
147.5°	182.5	189.3	195.4	200.6	204.7	206.8	207.3
150°	179.2	184.8	189.8	194.3	198.0	199.6	199.9
152.5°	175.9	181.0	185.1	188.9	191.9	192.9	193.2
155°	171.0	175.2	178.6	181.4	183.6	184.5	184.5
157.5°	166.4	169.9	172.6	174.7	176.4	176.9	176.9
160°	163.2	166.3	168.6	170.2	171.9	172.2	172.2
162.5°	160.3	162.7	164.8	166.0	167.6	167.9	167.7
165°	156.0	157.9	159.3	160.4	161.5	161.3	161.0
167.5°	152.3	153.8	154.6	155.2	156.0	155.9	155.7
170°	149.8	150.9	151.8	152.3	152.6	152.3	152.3
172.5°	147.7	148.5	149.1	149.4	149.6	149.4	148.9
175°	145.0	145.6	145.6	145.6	146.2	145.6	145.0
177.5°	143.4	143.4	143.6	143.4	143.6	143.1	142.8
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5

(END OF REPORT)