

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: P332063-940

Luminaire Tested: **S123DIP-S1165D805U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332063-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D805U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7229.9 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

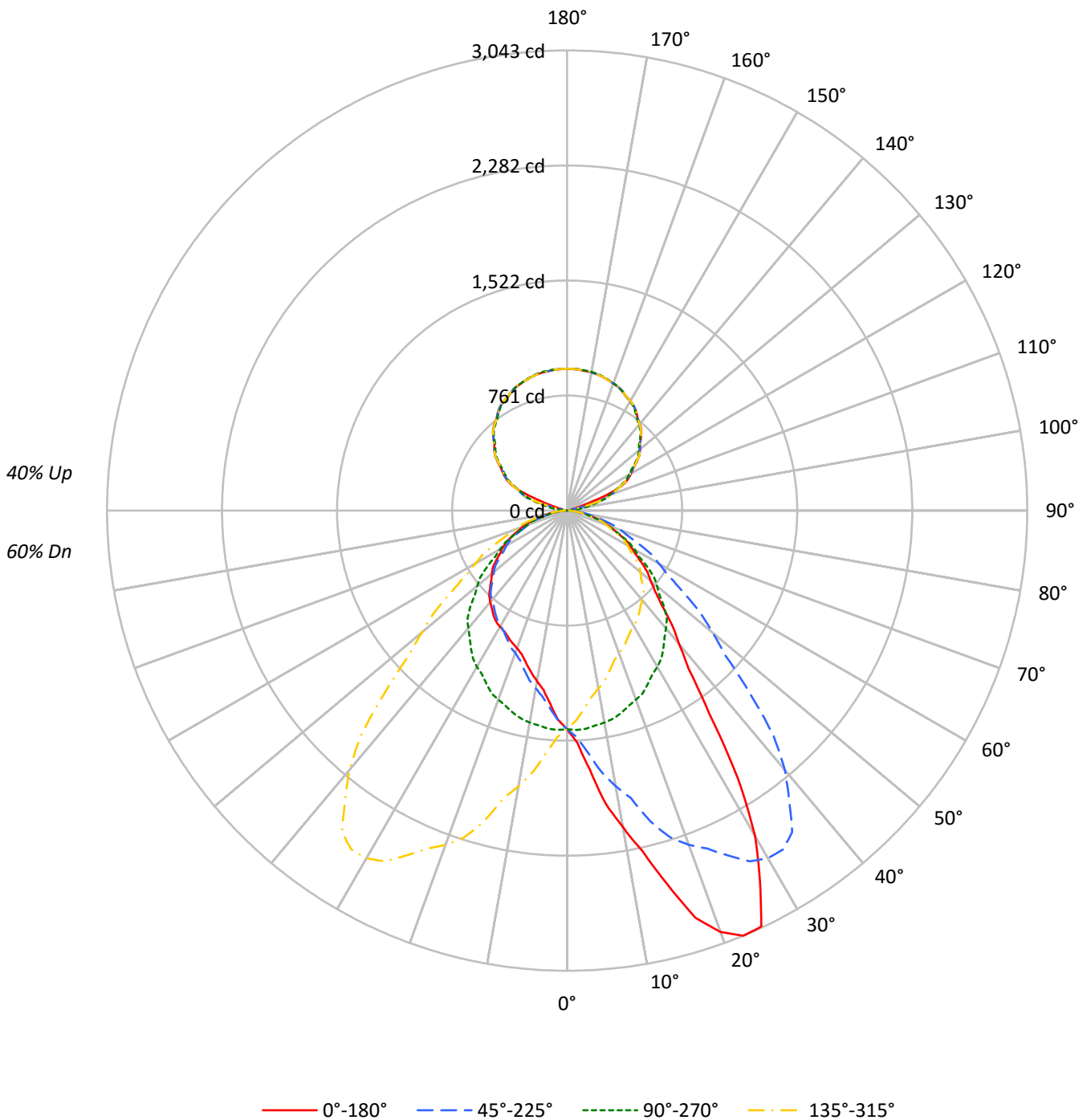
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	47	46	43	41	37
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36	32
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	27	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	27	24	22
8	56	44	36	31	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	23	20	18
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15569	15569	15569	15569
5°	18567	15637	13857	15637
10°	23240	15557	12516	15557
15°	28505	15432	11652	15432
20°	33956	15237	11094	15237
25°	36056	14998	10969	14998
30°	30904	14825	11028	14825
35°	21494	14578	11143	14578
40°	16190	14289	11108	14289
45°	13443	13857	10966	13857
50°	12042	12980	10868	12980
55°	11258	12033	10732	12033
60°	10559	11044	10622	11044
65°	9926	10068	10282	10068
70°	9309	8954	9791	8954
75°	8339	7839	8979	7839
80°	7296	6428	7736	6428
85°	5718	4668	5199	4668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	2.0
10°-20°	456.9	6.3
20°-30°	766.8	10.6
30°-40°	868.3	12.0
40°-50°	778.6	10.8
50°-60°	628.3	8.7
60°-70°	437.9	6.1
70°-80°	230.1	3.2
80°-90°	58.9	0.8
90°-100°	34.1	0.5
100°-110°	162.6	2.2
110°-120°	390.6	5.4
120°-130°	497.3	6.9
130°-140°	531.4	7.3
140°-150°	496.9	6.9
150°-160°	400.8	5.5
160°-170°	258.7	3.6
170°-180°	89.2	1.2
0°-30°	1366.2	18.9
0°-40°	2234.5	30.9
0°-60°	3641.5	50.4
0°-90°	4368.4	60.4
90°-120°	587.3	8.1
90°-150°	2112.9	29.2
90°-180°	2862.0	39.6
0°-180°	7229.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1446	1446	1446	1446	1446	
5°	1718	1447	1282	1447	1718	178
15°	2558	1385	1046	1385	2558	739
25°	3036	1263	924	1263	3036	1331
35°	1636	1109	848	1109	1636	1063
45°	883	910	720	910	883	699
55°	600	641	572	641	600	538
65°	390	395	404	395	390	388
75°	200	188	216	188	200	215
85°	46	38	42	38	46	55
90°	21	1	21	1	21	12
95°	26	42	26	42	26	22
105°	31	208	31	208	31	70
115°	410	390	410	390	410	379
125°	560	549	560	549	560	501
135°	691	684	691	684	691	533
145°	797	789	797	789	797	497
155°	868	869	868	869	868	400
165°	915	917	915	917	915	258
175°	935	938	935	938	935	89
180°	938	938	938	938	938	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1535.1	1533.9	1531.2	1533.4	1528.9	1522.7	1522.2	1516.5	1500.3	1499.1	1494.7
5°	1718.4	1712.8	1712.1	1711.4	1701.6	1688.3	1663.0	1660.9	1627.3	1610.4	1590.2
7.5°	1955.8	1958.7	1948.6	1939.6	1909.6	1889.8	1862.8	1828.2	1786.8	1744.9	1717.0
10°	2126.3	2149.4	2120.7	2101.0	2082.9	2048.4	2008.6	1958.7	1909.0	1850.8	1806.7
12.5°	2309.1	2320.4	2314.6	2296.2	2267.8	2215.5	2144.7	2090.0	2044.2	1947.3	1908.2
15°	2558.0	2600.8	2573.4	2510.3	2511.7	2461.9	2369.5	2267.8	2213.9	2129.0	2013.5
17.5°	2823.2	2828.5	2816.8	2764.3	2729.3	2660.9	2575.5	2478.1	2368.7	2266.2	2143.5
20°	2964.4	2960.2	2935.7	2908.4	2848.1	2794.9	2701.6	2593.0	2452.8	2352.0	2218.0
22.5°	3043.0	3035.9	3024.3	3001.4	2951.3	2894.0	2810.4	2691.7	2558.2	2419.2	2264.6
25°	3035.9	3045.0	3046.4	3040.1	3022.6	2988.3	2922.4	2827.8	2694.7	2516.0	2354.7
27.5°	2761.2	2774.1	2811.6	2844.7	2881.9	2919.7	2914.6	2867.7	2769.2	2614.9	2417.8
30°	2486.4	2458.4	2527.8	2615.5	2675.0	2780.1	2839.0	2842.5	2787.1	2654.7	2462.6
32.5°	2105.2	2136.1	2166.8	2274.6	2404.8	2522.8	2640.0	2734.3	2745.1	2656.9	2489.0
35°	1635.7	1674.3	1730.3	1786.4	1926.5	2047.1	2253.1	2432.5	2575.5	2594.4	2491.4
37.5°	1318.1	1337.1	1372.6	1428.8	1520.5	1663.5	1822.8	2049.6	2256.7	2410.8	2417.5
40°	1152.2	1157.7	1197.7	1240.5	1314.7	1432.4	1576.1	1776.6	2024.6	2239.8	2329.5
42.5°	1027.7	1040.0	1056.9	1098.1	1157.2	1245.8	1379.4	1545.0	1772.4	2020.0	2195.5
45°	883.1	897.1	907.6	934.9	977.0	1036.5	1129.7	1281.1	1454.2	1709.9	1946.2
47.5°	787.5	788.5	796.4	817.0	845.6	890.3	956.2	1053.5	1212.4	1419.9	1662.3
50°	719.1	730.2	733.1	749.1	771.6	804.5	859.2	941.9	1072.3	1254.5	1477.3
52.5°	670.8	674.2	682.1	693.7	713.3	739.0	786.3	851.0	953.4	1108.7	1313.6
55°	599.9	599.9	607.6	616.7	627.9	651.0	682.6	730.2	808.1	928.5	1098.1
57.5°	534.3	537.8	543.2	546.1	555.6	570.9	597.3	633.4	691.4	784.2	919.1
60°	490.5	496.9	496.1	501.8	510.2	522.1	544.6	574.0	625.8	700.1	813.7
62.5°	452.5	452.0	451.9	458.6	467.0	478.4	492.9	518.4	562.5	628.4	725.1
65°	389.7	388.3	393.2	397.3	400.2	408.6	419.8	442.2	471.6	520.7	595.7
67.5°	333.9	329.8	332.4	333.9	338.7	345.2	355.7	369.6	393.0	432.4	488.9
70°	295.8	292.2	291.5	292.9	297.1	302.0	309.8	323.1	344.8	376.3	417.7
72.5°	256.5	254.1	254.0	257.1	259.0	262.3	267.7	279.9	297.1	320.8	359.4
75°	200.5	200.5	200.5	201.2	203.2	206.1	210.3	216.5	229.9	246.6	272.6
77.5°	150.3	150.1	149.3	149.1	152.2	153.5	154.4	160.3	167.7	179.1	198.0
80°	117.7	114.2	115.7	117.7	119.1	119.8	122.0	123.3	129.7	136.0	149.3
82.5°	87.5	84.5	84.8	88.0	88.3	89.0	91.1	93.1	95.4	101.2	108.3
85°	46.3	46.3	47.0	47.0	47.6	47.0	49.0	49.8	49.8	53.2	57.4
87.5°	21.0	19.8	20.3	20.8	20.2	20.7	21.1	21.6	21.9	22.4	22.6
90°	21.0	20.6	20.3	20.0	19.7	19.2	18.5	18.0	17.4	16.8	14.7
92.5°	23.2	22.9	22.7	22.6	22.4	21.8	20.8	19.8	18.8	17.8	16.3
95°	26.5	26.5	26.5	26.5	26.5	25.9	24.9	23.8	22.7	21.6	19.9
97.5°	28.7	28.5	28.4	28.3	28.1	27.4	26.1	25.0	23.7	22.5	33.6
100°	29.2	29.2	29.0	28.8	28.6	28.0	26.8	25.5	24.3	23.0	47.2
102.5°	29.9	29.5	29.2	29.0	28.7	30.5	34.3	38.2	42.0	45.8	72.2
105°	30.7	30.4	30.1	29.8	29.4	43.0	70.4	97.8	125.3	152.7	166.6
107.5°	96.3	117.0	137.7	158.4	179.0	199.4	219.5	239.6	259.8	279.8	277.6
110°	191.7	213.8	236.0	258.2	280.4	294.0	299.1	304.2	309.3	314.4	312.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	329.0	333.6	338.2	343.0	347.6	349.9	349.8	349.7	349.6	349.6	347.9
115°	409.9	409.3	408.7	408.0	407.4	406.4	404.8	403.2	401.7	400.2	398.8
117.5°	455.4	455.2	455.1	455.0	454.9	454.1	453.0	451.7	450.5	449.2	448.5
120°	486.6	486.6	486.6	486.6	486.6	486.0	484.7	483.5	482.2	481.0	480.5
122.5°	517.3	517.2	517.0	516.9	516.7	516.3	515.4	514.5	513.7	512.8	512.2
125°	560.5	560.2	559.9	559.5	559.3	558.9	558.7	558.3	558.0	557.7	557.1
127.5°	602.1	602.4	602.7	603.0	603.2	603.2	602.7	602.2	601.7	601.2	600.5
130°	628.8	629.1	629.5	629.7	630.1	629.9	629.3	628.7	628.0	627.4	626.8
132.5°	653.4	653.8	654.2	654.7	655.1	655.0	654.3	653.7	653.2	652.6	652.0
135°	690.9	691.3	691.8	692.2	692.7	692.7	692.2	691.8	691.3	690.9	690.3
137.5°	726.1	726.5	726.7	727.1	727.4	727.2	726.4	725.7	725.0	724.2	723.8
140°	747.3	747.6	748.0	748.2	748.6	748.4	747.8	747.2	746.5	745.9	745.5
142.5°	766.9	767.3	767.7	768.1	768.6	768.6	768.0	767.6	767.0	766.6	766.1
145°	796.8	796.8	796.8	796.8	796.8	796.7	796.4	796.0	795.8	795.4	795.1
147.5°	819.1	819.8	820.6	821.3	822.0	822.2	821.9	821.5	821.3	820.9	820.6
150°	835.9	836.3	836.8	837.2	837.8	837.8	837.5	837.1	836.9	836.6	836.2
152.5°	849.3	850.0	850.7	851.4	852.1	852.2	851.6	851.0	850.5	850.0	849.8
155°	867.9	868.9	869.8	870.8	871.6	871.7	870.9	870.2	869.4	868.6	868.4
157.5°	883.7	884.9	886.1	887.3	888.5	888.7	887.7	886.8	885.9	884.9	885.1
160°	893.8	894.8	895.9	897.0	898.0	898.1	897.2	896.3	895.4	894.4	894.6
162.5°	903.2	904.2	905.1	906.1	907.0	907.0	906.0	904.9	903.8	902.8	902.9
165°	914.6	915.7	916.8	917.9	919.0	918.9	917.7	916.4	915.2	913.9	914.1
167.5°	922.8	924.1	925.3	926.6	927.8	927.8	926.6	925.3	924.1	922.8	922.8
170°	927.9	929.2	930.3	931.6	932.8	932.8	931.6	930.3	929.2	927.9	927.9
172.5°	930.7	932.0	933.4	934.8	936.1	936.2	935.0	933.7	932.5	931.2	931.1
175°	934.9	936.1	937.4	938.6	939.8	939.9	938.8	937.7	936.7	935.6	935.4
177.5°	936.1	937.4	938.6	939.9	941.1	941.2	940.2	939.2	938.3	937.2	937.1
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1491.3	1486.8	1482.4	1474.5	1467.8	1458.2	1455.5	1452.1	1442.0	1433.1	1426.3
5°	1582.4	1565.6	1541.1	1518.7	1500.5	1476.0	1461.9	1447.2	1426.1	1407.2	1391.8
7.5°	1677.8	1644.7	1606.5	1565.3	1527.0	1490.0	1460.1	1433.4	1404.0	1376.1	1354.4
10°	1753.5	1705.8	1652.5	1595.1	1546.0	1498.3	1458.4	1423.3	1385.5	1352.5	1325.3
12.5°	1839.8	1769.2	1695.7	1625.9	1567.9	1501.7	1453.3	1408.8	1365.9	1326.2	1295.6
15°	1942.0	1852.3	1765.3	1669.4	1581.0	1498.3	1440.9	1384.8	1335.1	1294.4	1255.2
17.5°	2035.1	1933.4	1818.9	1702.1	1595.6	1497.5	1417.0	1353.7	1291.5	1241.7	1202.6
20°	2087.8	1972.1	1842.5	1721.2	1603.5	1494.2	1405.9	1330.2	1262.8	1210.3	1166.2
22.5°	2133.2	1997.9	1863.8	1734.1	1602.9	1485.1	1385.1	1307.2	1234.3	1182.9	1135.9
25°	2180.2	2018.4	1883.8	1731.7	1585.3	1463.3	1351.2	1262.8	1190.0	1129.7	1081.4
27.5°	2220.6	2017.0	1857.3	1693.7	1557.5	1435.3	1315.5	1220.8	1143.4	1078.0	1028.9
30°	2247.5	2019.7	1829.8	1667.9	1530.6	1404.4	1288.1	1192.8	1111.5	1044.9	998.6
32.5°	2264.3	2018.0	1804.6	1632.1	1488.0	1376.4	1258.4	1159.7	1076.2	1010.8	966.2
35°	2274.1	2005.7	1761.1	1557.9	1419.2	1310.5	1211.7	1109.4	1021.8	960.8	910.3
37.5°	2254.5	1979.8	1710.7	1486.4	1334.5	1227.5	1144.4	1057.2	973.4	906.3	862.8
40°	2223.7	1963.0	1671.4	1436.0	1276.2	1173.1	1102.4	1016.9	934.2	870.4	829.7
42.5°	2164.8	1928.8	1628.3	1379.9	1215.7	1112.6	1047.4	976.0	897.8	837.9	797.3
45°	2021.2	1854.3	1563.5	1295.8	1126.2	1019.7	962.2	910.3	839.5	781.4	746.4
47.5°	1821.9	1742.4	1469.9	1207.1	1032.9	930.4	870.7	828.9	777.2	730.2	696.6
50°	1683.4	1650.4	1406.5	1146.6	970.6	870.4	813.0	775.1	738.0	691.0	660.1
52.5°	1523.6	1543.9	1332.6	1083.7	907.3	808.8	754.7	724.6	690.9	652.3	625.4
55°	1298.6	1372.2	1204.7	978.3	813.0	719.1	667.9	641.2	621.6	592.9	569.8
57.5°	1088.0	1181.6	1066.5	869.7	720.3	639.3	590.2	561.2	548.6	533.6	515.4
60°	963.0	1055.4	967.9	796.8	658.1	580.9	537.5	513.0	500.3	489.9	474.5
62.5°	851.3	944.9	871.4	722.8	596.9	525.5	487.6	463.7	453.9	448.4	435.2
65°	698.0	778.6	729.5	607.6	509.5	446.4	412.1	395.3	386.1	384.1	375.7
67.5°	568.1	629.5	593.7	504.0	426.8	372.3	343.1	328.9	321.8	321.1	314.8
70°	482.9	540.3	513.0	431.7	365.2	322.4	297.1	284.5	280.4	279.6	276.2
72.5°	416.7	456.8	435.1	367.2	315.8	277.0	258.4	245.3	240.5	241.5	239.2
75°	308.4	338.5	325.9	278.9	237.6	212.3	196.9	188.5	184.3	186.5	183.6
77.5°	221.9	240.9	229.6	197.1	171.6	153.4	142.0	136.8	133.0	132.9	131.6
80°	167.5	178.7	172.4	152.8	131.8	116.4	107.2	103.7	101.7	100.9	100.2
82.5°	119.3	128.9	121.4	107.9	93.6	84.4	79.2	74.5	73.0	73.5	72.8
85°	60.3	63.8	61.0	52.5	47.0	42.7	39.9	37.8	36.5	37.2	35.8
87.5°	23.3	23.5	21.4	18.7	17.3	15.3	15.1	13.6	12.8	13.1	12.8
90°	12.7	10.7	8.6	6.9	5.4	3.8	2.2	0.7	2.2	3.8	5.4
92.5°	14.8	13.3	11.8	11.2	11.7	12.1	12.6	12.9	12.6	12.1	11.7
95°	18.2	16.5	14.8	17.1	23.5	29.8	36.2	42.5	36.2	29.8	23.5
97.5°	44.8	55.9	67.1	74.1	77.0	79.8	82.7	85.4	82.7	79.8	77.0
100°	71.3	95.5	119.7	130.2	127.1	124.0	120.9	117.8	120.9	124.0	127.1
102.5°	98.6	125.1	151.5	163.5	161.3	159.1	156.9	154.6	156.9	159.1	161.3
105°	180.6	194.5	208.5	214.5	212.9	211.2	209.5	207.8	209.5	211.2	212.9
107.5°	275.4	273.2	271.0	269.2	267.9	266.5	265.2	263.8	265.2	266.5	267.9
110°	311.0	309.3	307.6	306.1	304.9	303.6	302.4	301.1	302.4	303.6	304.9



TEST NUMBER: P332063-940

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	346.2	344.5	342.7	341.3	340.2	339.1	338.0	336.9	338.0	339.1	340.2
115°	397.3	396.0	394.6	393.4	392.5	391.6	390.7	389.7	390.7	391.6	392.5
117.5°	447.8	447.1	446.4	445.4	444.3	443.2	442.0	440.9	442.0	443.2	444.3
120°	480.1	479.7	479.2	478.2	476.8	475.5	474.0	472.7	474.0	475.5	476.8
122.5°	511.7	511.0	510.4	509.6	508.5	507.3	506.1	505.0	506.1	507.3	508.5
125°	556.4	555.9	555.3	554.3	553.0	551.8	550.5	549.4	550.5	551.8	553.0
127.5°	599.8	599.0	598.2	597.3	596.0	594.8	593.5	592.3	593.5	594.8	596.0
130°	626.2	625.5	624.9	624.0	622.8	621.5	620.3	619.0	620.3	621.5	622.8
132.5°	651.5	651.0	650.5	649.7	648.5	647.2	646.0	644.7	646.0	647.2	648.5
135°	689.6	689.0	688.4	687.6	686.7	685.7	684.8	683.9	684.8	685.7	686.7
137.5°	723.5	723.2	722.8	722.0	720.9	719.7	718.5	717.4	718.5	719.7	720.9
140°	745.0	744.6	744.0	743.4	742.4	741.5	740.6	739.7	740.6	741.5	742.4
142.5°	765.6	765.2	764.7	764.0	763.1	762.1	761.3	760.3	761.3	762.1	763.1
145°	794.8	794.5	794.2	793.5	792.4	791.3	790.2	789.2	790.2	791.3	792.4
147.5°	820.3	820.0	819.7	819.2	818.5	817.8	817.1	816.4	817.1	817.8	818.5
150°	836.0	835.6	835.4	834.9	834.5	834.0	833.6	833.0	833.6	834.0	834.5
152.5°	849.5	849.4	849.2	849.0	848.8	848.6	848.4	848.1	848.4	848.6	848.8
155°	868.3	868.2	868.0	868.1	868.4	868.7	869.1	869.3	869.1	868.7	868.4
157.5°	885.3	885.4	885.6	885.6	885.6	885.7	885.7	885.7	885.7	885.7	885.6
160°	894.7	894.9	895.0	895.2	895.4	895.5	895.6	895.8	895.6	895.5	895.4
162.5°	903.1	903.2	903.4	903.7	904.1	904.5	904.9	905.3	904.9	904.5	904.1
165°	914.3	914.4	914.5	914.9	915.3	915.8	916.2	916.8	916.2	915.8	915.3
167.5°	922.8	922.8	922.8	923.2	923.8	924.4	925.1	925.7	925.1	924.4	923.8
170°	927.9	927.9	927.9	928.2	928.8	929.4	930.1	930.7	930.1	929.4	928.8
172.5°	930.9	930.9	930.8	931.0	931.7	932.6	933.3	934.0	933.3	932.6	931.7
175°	935.2	935.0	935.0	935.2	936.0	936.8	937.5	938.3	937.5	936.8	936.0
177.5°	937.0	936.8	936.7	937.0	937.6	938.3	938.9	939.4	938.9	938.3	937.6
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



TEST NUMBER: P332063-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1422.4	1418.4	1412.8	1404.4	1397.7	1387.1	1387.1	1388.8	1388.8	1388.2	1387.1
5°	1379.2	1368.7	1356.1	1341.4	1326.0	1310.5	1307.7	1302.1	1297.9	1295.1	1291.6
7.5°	1333.6	1315.0	1296.6	1276.0	1257.2	1241.7	1230.9	1221.9	1216.2	1210.1	1205.5
10°	1302.8	1279.7	1257.9	1236.3	1212.4	1193.5	1181.6	1173.1	1166.9	1161.3	1158.4
12.5°	1266.4	1239.9	1215.9	1195.3	1169.2	1149.8	1138.4	1134.4	1127.0	1115.3	1109.1
15°	1213.1	1188.6	1159.8	1128.3	1115.7	1091.9	1078.5	1072.3	1068.0	1058.9	1056.1
17.5°	1167.5	1135.4	1103.2	1079.7	1056.2	1036.9	1029.5	1021.6	1016.0	1008.6	1006.4
20°	1131.1	1102.4	1072.9	1047.8	1023.1	1002.2	995.9	990.2	984.6	981.1	978.3
22.5°	1094.1	1065.4	1041.0	1017.4	991.2	977.5	970.6	964.5	960.6	958.1	955.4
25°	1042.1	1016.9	989.5	968.5	947.5	938.3	934.2	930.7	927.9	924.3	923.6
27.5°	995.6	968.1	945.9	926.3	911.2	903.7	899.6	897.9	898.5	899.7	900.5
30°	960.8	935.6	917.4	900.5	886.5	879.5	878.8	878.8	881.6	882.3	883.7
32.5°	928.9	908.1	889.9	873.6	863.0	858.2	860.9	860.9	863.1	865.0	867.5
35°	882.3	864.1	850.1	836.1	827.0	829.0	830.5	831.9	835.4	839.5	842.4
37.5°	837.9	822.1	807.4	796.6	792.4	796.1	799.5	802.5	806.5	809.8	812.5
40°	805.9	794.0	780.0	770.2	771.6	773.7	776.5	780.0	783.5	785.6	788.5
42.5°	776.2	763.8	753.1	744.9	746.9	749.6	751.3	753.1	757.2	761.0	762.6
45°	730.9	721.1	711.3	706.4	707.8	709.3	710.6	712.7	716.2	719.1	719.7
47.5°	680.1	673.2	666.6	661.8	664.1	663.5	665.4	669.9	670.9	672.6	676.5
50°	647.6	641.2	633.6	632.1	632.1	632.1	632.8	638.5	638.5	641.2	644.1
52.5°	611.7	607.6	602.7	600.2	599.1	599.1	602.0	604.8	605.9	609.8	612.7
55°	558.6	554.4	550.1	548.0	546.6	548.0	553.7	555.0	558.6	560.6	562.8
57.5°	503.2	500.0	496.6	495.4	495.2	497.0	500.1	504.3	505.2	511.6	514.8
60°	466.7	461.8	459.1	459.1	457.6	464.0	462.5	469.6	470.9	475.2	480.1
62.5°	429.2	422.6	421.5	421.5	423.5	425.3	427.2	430.3	433.9	439.3	443.1
65°	368.6	365.2	370.1	369.3	367.9	372.1	372.1	375.7	379.9	384.8	392.4
67.5°	311.3	309.5	309.9	309.9	312.0	314.4	316.4	319.4	324.5	329.7	334.7
70°	272.6	274.7	271.3	274.0	276.2	276.8	278.2	282.4	288.0	291.5	297.1
72.5°	235.1	234.9	235.3	236.5	238.5	239.8	241.2	246.0	252.2	255.1	259.6
75°	180.8	180.1	182.2	182.2	185.7	187.1	188.5	190.6	196.3	200.5	203.9
77.5°	132.1	132.9	132.4	134.8	133.8	134.1	138.5	140.6	141.2	149.5	151.2
80°	99.5	100.9	101.7	102.3	103.0	101.7	106.6	108.6	108.6	113.5	117.0
82.5°	71.5	72.3	74.2	74.8	75.0	76.4	76.8	78.4	80.1	82.1	86.8
85°	35.8	37.8	38.5	37.8	38.5	37.2	39.2	39.9	40.7	40.7	40.7
87.5°	12.6	13.5	13.4	14.4	14.2	15.2	15.2	14.3	14.4	16.1	14.0
90°	6.9	8.6	10.7	12.7	14.7	16.8	17.4	18.0	18.5	19.2	19.7
92.5°	11.2	11.8	13.3	14.8	16.3	17.8	18.8	19.8	20.8	21.8	22.4
95°	17.1	14.8	16.5	18.2	19.9	21.6	22.7	23.8	24.9	25.9	26.5
97.5°	74.1	67.1	55.9	44.8	33.6	22.5	23.7	25.0	26.1	27.4	28.1
100°	130.2	119.7	95.5	71.3	47.2	23.0	24.3	25.5	26.8	28.0	28.6
102.5°	163.5	151.5	125.1	98.6	72.2	45.8	42.0	38.2	34.3	30.5	28.7
105°	214.5	208.5	194.5	180.6	166.6	152.7	125.3	97.8	70.4	43.0	29.4
107.5°	269.2	271.0	273.2	275.4	277.6	279.8	259.8	239.6	219.5	199.4	179.0
110°	306.1	307.6	309.3	311.0	312.7	314.4	309.3	304.2	299.1	294.0	280.4



TEST NUMBER: P332063-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	341.3	342.7	344.5	346.2	347.9	349.6	349.6	349.7	349.8	349.9	347.6
115°	393.4	394.6	396.0	397.3	398.8	400.2	401.7	403.2	404.8	406.4	407.4
117.5°	445.4	446.4	447.1	447.8	448.5	449.2	450.5	451.7	453.0	454.1	454.9
120°	478.2	479.2	479.7	480.1	480.5	481.0	482.2	483.5	484.7	486.0	486.6
122.5°	509.6	510.4	511.0	511.7	512.2	512.8	513.7	514.5	515.4	516.3	516.7
125°	554.3	555.3	555.9	556.4	557.1	557.7	558.0	558.3	558.7	558.9	559.3
127.5°	597.3	598.2	599.0	599.8	600.5	601.2	601.7	602.2	602.7	603.2	603.2
130°	624.0	624.9	625.5	626.2	626.8	627.4	628.0	628.7	629.3	629.9	630.1
132.5°	649.7	650.5	651.0	651.5	652.0	652.6	653.2	653.7	654.3	655.0	655.1
135°	687.6	688.4	689.0	689.6	690.3	690.9	691.3	691.8	692.2	692.7	692.7
137.5°	722.0	722.8	723.2	723.5	723.8	724.2	725.0	725.7	726.4	727.2	727.4
140°	743.4	744.0	744.6	745.0	745.5	745.9	746.5	747.2	747.8	748.4	748.6
142.5°	764.0	764.7	765.2	765.6	766.1	766.6	767.0	767.6	768.0	768.6	768.6
145°	793.5	794.2	794.5	794.8	795.1	795.4	795.8	796.0	796.4	796.7	796.8
147.5°	819.2	819.7	820.0	820.3	820.6	820.9	821.3	821.5	821.9	822.2	822.0
150°	834.9	835.4	835.6	836.0	836.2	836.6	836.9	837.1	837.5	837.8	837.8
152.5°	849.0	849.2	849.4	849.5	849.8	850.0	850.5	851.0	851.6	852.2	852.1
155°	868.1	868.0	868.2	868.3	868.4	868.6	869.4	870.2	870.9	871.7	871.6
157.5°	885.6	885.6	885.4	885.3	885.1	884.9	885.9	886.8	887.7	888.7	888.5
160°	895.2	895.0	894.9	894.7	894.6	894.4	895.4	896.3	897.2	898.1	898.0
162.5°	903.7	903.4	903.2	903.1	902.9	902.8	903.8	904.9	906.0	907.0	907.0
165°	914.9	914.5	914.4	914.3	914.1	913.9	915.2	916.4	917.7	918.9	919.0
167.5°	923.2	922.8	922.8	922.8	922.8	922.8	924.1	925.3	926.6	927.8	927.8
170°	928.2	927.9	927.9	927.9	927.9	927.9	929.2	930.3	931.6	932.8	932.8
172.5°	931.0	930.8	930.9	930.9	931.1	931.2	932.5	933.7	935.0	936.2	936.1
175°	935.2	935.0	935.0	935.2	935.4	935.6	936.7	937.7	938.8	939.9	939.8
177.5°	937.0	936.7	936.8	937.0	937.1	937.2	938.3	939.2	940.2	941.2	941.1
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



TEST NUMBER: P332063-940

CATALOG NUMBER: S123DIP-S1165D805U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1383.1	1382.6	1386.5	1383.7	1386.5	1382.6	1383.1	1387.1	1388.2	1388.8	1388.8
5°	1287.4	1289.5	1282.5	1282.5	1282.5	1289.5	1287.4	1291.6	1295.1	1297.9	1302.1
7.5°	1202.2	1199.1	1199.4	1195.6	1199.4	1199.1	1202.2	1205.5	1210.1	1216.2	1221.9
10°	1150.0	1145.8	1144.4	1145.1	1144.4	1145.8	1150.0	1158.4	1161.3	1166.9	1173.1
12.5°	1106.9	1106.0	1096.8	1096.9	1096.8	1106.0	1106.9	1109.1	1115.3	1127.0	1134.4
15°	1056.1	1042.9	1041.4	1045.6	1041.4	1042.9	1056.1	1056.1	1058.9	1068.0	1072.3
17.5°	1005.2	998.3	998.6	996.6	998.6	998.3	1005.2	1006.4	1008.6	1016.0	1021.6
20°	978.3	974.1	973.4	968.5	973.4	974.1	978.3	978.3	981.1	984.6	990.2
22.5°	953.7	952.3	952.7	947.3	952.7	952.3	953.7	955.4	958.1	960.6	964.5
25°	923.0	926.5	923.6	923.6	923.6	926.5	923.0	923.6	924.3	927.9	930.7
27.5°	902.2	902.1	900.7	900.7	900.7	902.1	902.2	900.5	899.7	898.5	897.9
30°	886.5	885.8	887.3	887.3	887.3	885.8	886.5	883.7	882.3	881.6	878.8
32.5°	870.8	871.8	872.1	872.6	872.1	871.8	870.8	867.5	865.0	863.1	860.9
35°	846.6	847.3	849.4	848.0	849.4	847.3	846.6	842.4	839.5	835.4	831.9
37.5°	813.8	817.0	816.3	817.4	816.3	817.0	813.8	812.5	809.8	806.5	802.5
40°	789.1	791.2	790.5	790.5	790.5	791.2	789.1	788.5	785.6	783.5	780.0
42.5°	763.9	765.4	763.6	762.5	763.6	765.4	763.9	762.6	761.0	757.2	753.1
45°	722.6	721.1	723.3	720.4	723.3	721.1	722.6	719.7	719.1	716.2	712.7
47.5°	676.3	677.7	678.2	680.4	678.2	677.7	676.3	676.5	672.6	670.9	669.9
50°	645.4	649.6	649.6	649.0	649.6	649.6	645.4	644.1	641.2	638.5	638.5
52.5°	615.2	617.2	619.9	619.8	619.9	617.2	615.2	612.7	609.8	605.9	604.8
55°	568.4	569.8	571.1	571.9	571.1	569.8	568.4	562.8	560.6	558.6	555.0
57.5°	519.9	519.3	522.6	523.6	522.6	519.3	519.9	514.8	511.6	505.2	504.3
60°	485.6	485.6	491.2	493.4	491.2	485.6	485.6	480.1	475.2	470.9	469.6
62.5°	449.2	451.5	457.1	454.1	457.1	451.5	449.2	443.1	439.3	433.9	430.3
65°	395.9	401.5	400.8	403.7	400.8	401.5	395.9	392.4	384.8	379.9	375.7
67.5°	340.3	343.8	348.8	349.3	348.8	343.8	340.3	334.7	329.7	324.5	319.4
70°	302.7	306.2	309.1	311.1	309.1	306.2	302.7	297.1	291.5	288.0	282.4
72.5°	266.4	268.1	274.8	271.9	274.8	268.1	266.4	259.6	255.1	252.2	246.0
75°	208.8	213.7	217.9	215.9	217.9	213.7	208.8	203.9	200.5	196.3	190.6
77.5°	154.4	159.3	161.3	159.5	161.3	159.3	154.4	151.2	149.5	141.2	140.6
80°	122.0	121.3	125.5	124.8	125.5	121.3	122.0	117.0	113.5	108.6	108.6
82.5°	89.4	88.7	90.7	91.1	90.7	88.7	89.4	86.8	82.1	80.1	78.4
85°	43.4	45.6	42.7	42.1	42.7	45.6	43.4	40.7	40.7	40.7	39.9
87.5°	14.1	14.2	13.6	13.2	13.6	14.2	14.1	14.0	16.1	14.4	14.3
90°	20.0	20.3	20.6	21.0	20.6	20.3	20.0	19.7	19.2	18.5	18.0
92.5°	22.6	22.7	22.9	23.2	22.9	22.7	22.6	22.4	21.8	20.8	19.8
95°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	25.9	24.9	23.8
97.5°	28.3	28.4	28.5	28.7	28.5	28.4	28.3	28.1	27.4	26.1	25.0
100°	28.8	29.0	29.2	29.2	29.2	29.0	28.8	28.6	28.0	26.8	25.5
102.5°	29.0	29.2	29.5	29.9	29.5	29.2	29.0	28.7	30.5	34.3	38.2
105°	29.8	30.1	30.4	30.7	30.4	30.1	29.8	29.4	43.0	70.4	97.8
107.5°	158.4	137.7	117.0	96.3	117.0	137.7	158.4	179.0	199.4	219.5	239.6
110°	258.2	236.0	213.8	191.7	213.8	236.0	258.2	280.4	294.0	299.1	304.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	343.0	338.2	333.6	329.0	333.6	338.2	343.0	347.6	349.9	349.8	349.7
115°	408.0	408.7	409.3	409.9	409.3	408.7	408.0	407.4	406.4	404.8	403.2
117.5°	455.0	455.1	455.2	455.4	455.2	455.1	455.0	454.9	454.1	453.0	451.7
120°	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.0	484.7	483.5
122.5°	516.9	517.0	517.2	517.3	517.2	517.0	516.9	516.7	516.3	515.4	514.5
125°	559.5	559.9	560.2	560.5	560.2	559.9	559.5	559.3	558.9	558.7	558.3
127.5°	603.0	602.7	602.4	602.1	602.4	602.7	603.0	603.2	603.2	602.7	602.2
130°	629.7	629.5	629.1	628.8	629.1	629.5	629.7	630.1	629.9	629.3	628.7
132.5°	654.7	654.2	653.8	653.4	653.8	654.2	654.7	655.1	655.0	654.3	653.7
135°	692.2	691.8	691.3	690.9	691.3	691.8	692.2	692.7	692.7	692.2	691.8
137.5°	727.1	726.7	726.5	726.1	726.5	726.7	727.1	727.4	727.2	726.4	725.7
140°	748.2	748.0	747.6	747.3	747.6	748.0	748.2	748.6	748.4	747.8	747.2
142.5°	768.1	767.7	767.3	766.9	767.3	767.7	768.1	768.6	768.6	768.0	767.6
145°	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.7	796.4	796.0
147.5°	821.3	820.6	819.8	819.1	819.8	820.6	821.3	822.0	822.2	821.9	821.5
150°	837.2	836.8	836.3	835.9	836.3	836.8	837.2	837.8	837.8	837.5	837.1
152.5°	851.4	850.7	850.0	849.3	850.0	850.7	851.4	852.1	852.2	851.6	851.0
155°	870.8	869.8	868.9	867.9	868.9	869.8	870.8	871.6	871.7	870.9	870.2
157.5°	887.3	886.1	884.9	883.7	884.9	886.1	887.3	888.5	888.7	887.7	886.8
160°	897.0	895.9	894.8	893.8	894.8	895.9	897.0	898.0	898.1	897.2	896.3
162.5°	906.1	905.1	904.2	903.2	904.2	905.1	906.1	907.0	907.0	906.0	904.9
165°	917.9	916.8	915.7	914.6	915.7	916.8	917.9	919.0	918.9	917.7	916.4
167.5°	926.6	925.3	924.1	922.8	924.1	925.3	926.6	927.8	927.8	926.6	925.3
170°	931.6	930.3	929.2	927.9	929.2	930.3	931.6	932.8	932.8	931.6	930.3
172.5°	934.8	933.4	932.0	930.7	932.0	933.4	934.8	936.1	936.2	935.0	933.7
175°	938.6	937.4	936.1	934.9	936.1	937.4	938.6	939.8	939.9	938.8	937.7
177.5°	939.9	938.6	937.4	936.1	937.4	938.6	939.9	941.1	941.2	940.2	939.2
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1387.1	1387.1	1397.7	1404.4	1412.8	1418.4	1422.4	1426.3	1433.1	1442.0	1452.1
5°	1307.7	1310.5	1326.0	1341.4	1356.1	1368.7	1379.2	1391.8	1407.2	1426.1	1447.2
7.5°	1230.9	1241.7	1257.2	1276.0	1296.6	1315.0	1333.6	1354.4	1376.1	1404.0	1433.4
10°	1181.6	1193.5	1212.4	1236.3	1257.9	1279.7	1302.8	1325.3	1352.5	1385.5	1423.3
12.5°	1138.4	1149.8	1169.2	1195.3	1215.9	1239.9	1266.4	1295.6	1326.2	1365.9	1408.8
15°	1078.5	1091.9	1115.7	1128.3	1159.8	1188.6	1213.1	1255.2	1294.4	1335.1	1384.8
17.5°	1029.5	1036.9	1056.2	1079.7	1103.2	1135.4	1167.5	1202.6	1241.7	1291.5	1353.7
20°	995.9	1002.2	1023.1	1047.8	1072.9	1102.4	1131.1	1166.2	1210.3	1262.8	1330.2
22.5°	970.6	977.5	991.2	1017.4	1041.0	1065.4	1094.1	1135.9	1182.9	1234.3	1307.2
25°	934.2	938.3	947.5	968.5	989.5	1016.9	1042.1	1081.4	1129.7	1190.0	1262.8
27.5°	899.6	903.7	911.2	926.3	945.9	968.1	995.6	1028.9	1078.0	1143.4	1220.8
30°	878.8	879.5	886.5	900.5	917.4	935.6	960.8	998.6	1044.9	1111.5	1192.8
32.5°	860.9	858.2	863.0	873.6	889.9	908.1	928.9	966.2	1010.8	1076.2	1159.7
35°	830.5	829.0	827.0	836.1	850.1	864.1	882.3	910.3	960.8	1021.8	1109.4
37.5°	799.5	796.1	792.4	796.6	807.4	822.1	837.9	862.8	906.3	973.4	1057.2
40°	776.5	773.7	771.6	770.2	780.0	794.0	805.9	829.7	870.4	934.2	1016.9
42.5°	751.3	749.6	746.9	744.9	753.1	763.8	776.2	797.3	837.9	897.8	976.0
45°	710.6	709.3	707.8	706.4	711.3	721.1	730.9	746.4	781.4	839.5	910.3
47.5°	665.4	663.5	664.1	661.8	666.6	673.2	680.1	696.6	730.2	777.2	828.9
50°	632.8	632.1	632.1	632.1	633.6	641.2	647.6	660.1	691.0	738.0	775.1
52.5°	602.0	599.1	599.1	600.2	602.7	607.6	611.7	625.4	652.3	690.9	724.6
55°	553.7	548.0	546.6	548.0	550.1	554.4	558.6	569.8	592.9	621.6	641.2
57.5°	500.1	497.0	495.2	495.4	496.6	500.0	503.2	515.4	533.6	548.6	561.2
60°	462.5	464.0	457.6	459.1	459.1	461.8	466.7	474.5	489.9	500.3	513.0
62.5°	427.2	425.3	423.5	421.5	421.5	422.6	429.2	435.2	448.4	453.9	463.7
65°	372.1	372.1	367.9	369.3	370.1	365.2	368.6	375.7	384.1	386.1	395.3
67.5°	316.4	314.4	312.0	309.9	309.9	309.5	311.3	314.8	321.1	321.8	328.9
70°	278.2	276.8	276.2	274.0	271.3	274.7	272.6	276.2	279.6	280.4	284.5
72.5°	241.2	239.8	238.5	236.5	235.3	234.9	235.1	239.2	241.5	240.5	245.3
75°	188.5	187.1	185.7	182.2	182.2	180.1	180.8	183.6	186.5	184.3	188.5
77.5°	138.5	134.1	133.8	134.8	132.4	132.9	132.1	131.6	132.9	133.0	136.8
80°	106.6	101.7	103.0	102.3	101.7	100.9	99.5	100.2	100.9	101.7	103.7
82.5°	76.8	76.4	75.0	74.8	74.2	72.3	71.5	72.8	73.5	73.0	74.5
85°	39.2	37.2	38.5	37.8	38.5	37.8	35.8	35.8	37.2	36.5	37.8
87.5°	15.2	15.2	14.2	14.4	13.4	13.5	12.6	12.8	13.1	12.8	13.6
90°	17.4	16.8	14.7	12.7	10.7	8.6	6.9	5.4	3.8	2.2	0.7
92.5°	18.8	17.8	16.3	14.8	13.3	11.8	11.2	11.7	12.1	12.6	12.9
95°	22.7	21.6	19.9	18.2	16.5	14.8	17.1	23.5	29.8	36.2	42.5
97.5°	23.7	22.5	33.6	44.8	55.9	67.1	74.1	77.0	79.8	82.7	85.4
100°	24.3	23.0	47.2	71.3	95.5	119.7	130.2	127.1	124.0	120.9	117.8
102.5°	42.0	45.8	72.2	98.6	125.1	151.5	163.5	161.3	159.1	156.9	154.6
105°	125.3	152.7	166.6	180.6	194.5	208.5	214.5	212.9	211.2	209.5	207.8
107.5°	259.8	279.8	277.6	275.4	273.2	271.0	269.2	267.9	266.5	265.2	263.8
110°	309.3	314.4	312.7	311.0	309.3	307.6	306.1	304.9	303.6	302.4	301.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	349.6	349.6	347.9	346.2	344.5	342.7	341.3	340.2	339.1	338.0	336.9
115°	401.7	400.2	398.8	397.3	396.0	394.6	393.4	392.5	391.6	390.7	389.7
117.5°	450.5	449.2	448.5	447.8	447.1	446.4	445.4	444.3	443.2	442.0	440.9
120°	482.2	481.0	480.5	480.1	479.7	479.2	478.2	476.8	475.5	474.0	472.7
122.5°	513.7	512.8	512.2	511.7	511.0	510.4	509.6	508.5	507.3	506.1	505.0
125°	558.0	557.7	557.1	556.4	555.9	555.3	554.3	553.0	551.8	550.5	549.4
127.5°	601.7	601.2	600.5	599.8	599.0	598.2	597.3	596.0	594.8	593.5	592.3
130°	628.0	627.4	626.8	626.2	625.5	624.9	624.0	622.8	621.5	620.3	619.0
132.5°	653.2	652.6	652.0	651.5	651.0	650.5	649.7	648.5	647.2	646.0	644.7
135°	691.3	690.9	690.3	689.6	689.0	688.4	687.6	686.7	685.7	684.8	683.9
137.5°	725.0	724.2	723.8	723.5	723.2	722.8	722.0	720.9	719.7	718.5	717.4
140°	746.5	745.9	745.5	745.0	744.6	744.0	743.4	742.4	741.5	740.6	739.7
142.5°	767.0	766.6	766.1	765.6	765.2	764.7	764.0	763.1	762.1	761.3	760.3
145°	795.8	795.4	795.1	794.8	794.5	794.2	793.5	792.4	791.3	790.2	789.2
147.5°	821.3	820.9	820.6	820.3	820.0	819.7	819.2	818.5	817.8	817.1	816.4
150°	836.9	836.6	836.2	836.0	835.6	835.4	834.9	834.5	834.0	833.6	833.0
152.5°	850.5	850.0	849.8	849.5	849.4	849.2	849.0	848.8	848.6	848.4	848.1
155°	869.4	868.6	868.4	868.3	868.2	868.0	868.1	868.4	868.7	869.1	869.3
157.5°	885.9	884.9	885.1	885.3	885.4	885.6	885.6	885.6	885.7	885.7	885.7
160°	895.4	894.4	894.6	894.7	894.9	895.0	895.2	895.4	895.5	895.6	895.8
162.5°	903.8	902.8	902.9	903.1	903.2	903.4	903.7	904.1	904.5	904.9	905.3
165°	915.2	913.9	914.1	914.3	914.4	914.5	914.9	915.3	915.8	916.2	916.8
167.5°	924.1	922.8	922.8	922.8	922.8	922.8	923.2	923.8	924.4	925.1	925.7
170°	929.2	927.9	927.9	927.9	927.9	927.9	928.2	928.8	929.4	930.1	930.7
172.5°	932.5	931.2	931.1	930.9	930.9	930.8	931.0	931.7	932.6	933.3	934.0
175°	936.7	935.6	935.4	935.2	935.0	935.0	935.2	936.0	936.8	937.5	938.3
177.5°	938.3	937.2	937.1	937.0	936.8	936.7	937.0	937.6	938.3	938.9	939.4
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1455.5	1458.2	1467.8	1474.5	1482.4	1486.8	1491.3	1494.7	1499.1	1500.3	1516.5
5°	1461.9	1476.0	1500.5	1518.7	1541.1	1565.6	1582.4	1590.2	1610.4	1627.3	1660.9
7.5°	1460.1	1490.0	1527.0	1565.3	1606.5	1644.7	1677.8	1717.0	1744.9	1786.8	1828.2
10°	1458.4	1498.3	1546.0	1595.1	1652.5	1705.8	1753.5	1806.7	1850.8	1909.0	1958.7
12.5°	1453.3	1501.7	1567.9	1625.9	1695.7	1769.2	1839.8	1908.2	1947.3	2044.2	2090.0
15°	1440.9	1498.3	1581.0	1669.4	1765.3	1852.3	1942.0	2013.5	2129.0	2213.9	2267.8
17.5°	1417.0	1497.5	1595.6	1702.1	1818.9	1933.4	2035.1	2143.5	2266.2	2368.7	2478.1
20°	1405.9	1494.2	1603.5	1721.2	1842.5	1972.1	2087.8	2218.0	2352.0	2452.8	2593.0
22.5°	1385.1	1485.1	1602.9	1734.1	1863.8	1997.9	2133.2	2264.6	2419.2	2558.2	2691.7
25°	1351.2	1463.3	1585.3	1731.7	1883.8	2018.4	2180.2	2354.7	2516.0	2694.7	2827.8
27.5°	1315.5	1435.3	1557.5	1693.7	1857.3	2017.0	2220.6	2417.8	2614.9	2769.2	2867.7
30°	1288.1	1404.4	1530.6	1667.9	1829.8	2019.7	2247.5	2462.6	2654.7	2787.1	2842.5
32.5°	1258.4	1376.4	1488.0	1632.1	1804.6	2018.0	2264.3	2489.0	2656.9	2745.1	2734.3
35°	1211.7	1310.5	1419.2	1557.9	1761.1	2005.7	2274.1	2491.4	2594.4	2575.5	2432.5
37.5°	1144.4	1227.5	1334.5	1486.4	1710.7	1979.8	2254.5	2417.5	2410.8	2256.7	2049.6
40°	1102.4	1173.1	1276.2	1436.0	1671.4	1963.0	2223.7	2329.5	2239.8	2024.6	1776.6
42.5°	1047.4	1112.6	1215.7	1379.9	1628.3	1928.8	2164.8	2195.5	2020.0	1772.4	1545.0
45°	962.2	1019.7	1126.2	1295.8	1563.5	1854.3	2021.2	1946.2	1709.9	1454.2	1281.1
47.5°	870.7	930.4	1032.9	1207.1	1469.9	1742.4	1821.9	1662.3	1419.9	1212.4	1053.5
50°	813.0	870.4	970.6	1146.6	1406.5	1650.4	1683.4	1477.3	1254.5	1072.3	941.9
52.5°	754.7	808.8	907.3	1083.7	1332.6	1543.9	1523.6	1313.6	1108.7	953.4	851.0
55°	667.9	719.1	813.0	978.3	1204.7	1372.2	1298.6	1098.1	928.5	808.1	730.2
57.5°	590.2	639.3	720.3	869.7	1066.5	1181.6	1088.0	919.1	784.2	691.4	633.4
60°	537.5	580.9	658.1	796.8	967.9	1055.4	963.0	813.7	700.1	625.8	574.0
62.5°	487.6	525.5	596.9	722.8	871.4	944.9	851.3	725.1	628.4	562.5	518.4
65°	412.1	446.4	509.5	607.6	729.5	778.6	698.0	595.7	520.7	471.6	442.2
67.5°	343.1	372.3	426.8	504.0	593.7	629.5	568.1	488.9	432.4	393.0	369.6
70°	297.1	322.4	365.2	431.7	513.0	540.3	482.9	417.7	376.3	344.8	323.1
72.5°	258.4	277.0	315.8	367.2	435.1	456.8	416.7	359.4	320.8	297.1	279.9
75°	196.9	212.3	237.6	278.9	325.9	338.5	308.4	272.6	246.6	229.9	216.5
77.5°	142.0	153.4	171.6	197.1	229.6	240.9	221.9	198.0	179.1	167.7	160.3
80°	107.2	116.4	131.8	152.8	172.4	178.7	167.5	149.3	136.0	129.7	123.3
82.5°	79.2	84.4	93.6	107.9	121.4	128.9	119.3	108.3	101.2	95.4	93.1
85°	39.9	42.7	47.0	52.5	61.0	63.8	60.3	57.4	53.2	49.8	49.8
87.5°	15.1	15.3	17.3	18.7	21.4	23.5	23.3	22.6	22.4	21.9	21.6
90°	2.2	3.8	5.4	6.9	8.6	10.7	12.7	14.7	16.8	17.4	18.0
92.5°	12.6	12.1	11.7	11.2	11.8	13.3	14.8	16.3	17.8	18.8	19.8
95°	36.2	29.8	23.5	17.1	14.8	16.5	18.2	19.9	21.6	22.7	23.8
97.5°	82.7	79.8	77.0	74.1	67.1	55.9	44.8	33.6	22.5	23.7	25.0
100°	120.9	124.0	127.1	130.2	119.7	95.5	71.3	47.2	23.0	24.3	25.5
102.5°	156.9	159.1	161.3	163.5	151.5	125.1	98.6	72.2	45.8	42.0	38.2
105°	209.5	211.2	212.9	214.5	208.5	194.5	180.6	166.6	152.7	125.3	97.8
107.5°	265.2	266.5	267.9	269.2	271.0	273.2	275.4	277.6	279.8	259.8	239.6
110°	302.4	303.6	304.9	306.1	307.6	309.3	311.0	312.7	314.4	309.3	304.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	338.0	339.1	340.2	341.3	342.7	344.5	346.2	347.9	349.6	349.6	349.7
115°	390.7	391.6	392.5	393.4	394.6	396.0	397.3	398.8	400.2	401.7	403.2
117.5°	442.0	443.2	444.3	445.4	446.4	447.1	447.8	448.5	449.2	450.5	451.7
120°	474.0	475.5	476.8	478.2	479.2	479.7	480.1	480.5	481.0	482.2	483.5
122.5°	506.1	507.3	508.5	509.6	510.4	511.0	511.7	512.2	512.8	513.7	514.5
125°	550.5	551.8	553.0	554.3	555.3	555.9	556.4	557.1	557.7	558.0	558.3
127.5°	593.5	594.8	596.0	597.3	598.2	599.0	599.8	600.5	601.2	601.7	602.2
130°	620.3	621.5	622.8	624.0	624.9	625.5	626.2	626.8	627.4	628.0	628.7
132.5°	646.0	647.2	648.5	649.7	650.5	651.0	651.5	652.0	652.6	653.2	653.7
135°	684.8	685.7	686.7	687.6	688.4	689.0	689.6	690.3	690.9	691.3	691.8
137.5°	718.5	719.7	720.9	722.0	722.8	723.2	723.5	723.8	724.2	725.0	725.7
140°	740.6	741.5	742.4	743.4	744.0	744.6	745.0	745.5	745.9	746.5	747.2
142.5°	761.3	762.1	763.1	764.0	764.7	765.2	765.6	766.1	766.6	767.0	767.6
145°	790.2	791.3	792.4	793.5	794.2	794.5	794.8	795.1	795.4	795.8	796.0
147.5°	817.1	817.8	818.5	819.2	819.7	820.0	820.3	820.6	820.9	821.3	821.5
150°	833.6	834.0	834.5	834.9	835.4	835.6	836.0	836.2	836.6	836.9	837.1
152.5°	848.4	848.6	848.8	849.0	849.2	849.4	849.5	849.8	850.0	850.5	851.0
155°	869.1	868.7	868.4	868.1	868.0	868.2	868.3	868.4	868.6	869.4	870.2
157.5°	885.7	885.7	885.6	885.6	885.6	885.4	885.3	885.1	884.9	885.9	886.8
160°	895.6	895.5	895.4	895.2	895.0	894.9	894.7	894.6	894.4	895.4	896.3
162.5°	904.9	904.5	904.1	903.7	903.4	903.2	903.1	902.9	902.8	903.8	904.9
165°	916.2	915.8	915.3	914.9	914.5	914.4	914.3	914.1	913.9	915.2	916.4
167.5°	925.1	924.4	923.8	923.2	922.8	922.8	922.8	922.8	922.8	924.1	925.3
170°	930.1	929.4	928.8	928.2	927.9	927.9	927.9	927.9	927.9	929.2	930.3
172.5°	933.3	932.6	931.7	931.0	930.8	930.9	930.9	931.1	931.2	932.5	933.7
175°	937.5	936.8	936.0	935.2	935.0	935.0	935.2	935.4	935.6	936.7	937.7
177.5°	938.9	938.3	937.6	937.0	936.7	936.8	937.0	937.1	937.2	938.3	939.2
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1522.2	1522.7	1528.9	1533.4	1531.2	1533.9	1535.1
5°	1663.0	1688.3	1701.6	1711.4	1712.1	1712.8	1718.4
7.5°	1862.8	1889.8	1909.6	1939.6	1948.6	1958.7	1955.8
10°	2008.6	2048.4	2082.9	2101.0	2120.7	2149.4	2126.3
12.5°	2144.7	2215.5	2267.8	2296.2	2314.6	2320.4	2309.1
15°	2369.5	2461.9	2511.7	2510.3	2573.4	2600.8	2558.0
17.5°	2575.5	2660.9	2729.3	2764.3	2816.8	2828.5	2823.2
20°	2701.6	2794.9	2848.1	2908.4	2935.7	2960.2	2964.4
22.5°	2810.4	2894.0	2951.3	3001.4	3024.3	3035.9	3043.0
25°	2922.4	2988.3	3022.6	3040.1	3046.4	3045.0	3035.9
27.5°	2914.6	2919.7	2881.9	2844.7	2811.6	2774.1	2761.2
30°	2839.0	2780.1	2675.0	2615.5	2527.8	2458.4	2486.4
32.5°	2640.0	2522.8	2404.8	2274.6	2166.8	2136.1	2105.2
35°	2253.1	2047.1	1926.5	1786.4	1730.3	1674.3	1635.7
37.5°	1822.8	1663.5	1520.5	1428.8	1372.6	1337.1	1318.1
40°	1576.1	1432.4	1314.7	1240.5	1197.7	1157.7	1152.2
42.5°	1379.4	1245.8	1157.2	1098.1	1056.9	1040.0	1027.7
45°	1129.7	1036.5	977.0	934.9	907.6	897.1	883.1
47.5°	956.2	890.3	845.6	817.0	796.4	788.5	787.5
50°	859.2	804.5	771.6	749.1	733.1	730.2	719.1
52.5°	786.3	739.0	713.3	693.7	682.1	674.2	670.8
55°	682.6	651.0	627.9	616.7	607.6	599.9	599.9
57.5°	597.3	570.9	555.6	546.1	543.2	537.8	534.3
60°	544.6	522.1	510.2	501.8	496.1	496.9	490.5
62.5°	492.9	478.4	467.0	458.6	451.9	452.0	452.5
65°	419.8	408.6	400.2	397.3	393.2	388.3	389.7
67.5°	355.7	345.2	338.7	333.9	332.4	329.8	333.9
70°	309.8	302.0	297.1	292.9	291.5	292.2	295.8
72.5°	267.7	262.3	259.0	257.1	254.0	254.1	256.5
75°	210.3	206.1	203.2	201.2	200.5	200.5	200.5
77.5°	154.4	153.5	152.2	149.1	149.3	150.1	150.3
80°	122.0	119.8	119.1	117.7	115.7	114.2	117.7
82.5°	91.1	89.0	88.3	88.0	84.8	84.5	87.5
85°	49.0	47.0	47.6	47.0	47.0	46.3	46.3
87.5°	21.1	20.7	20.2	20.8	20.3	19.8	21.0
90°	18.5	19.2	19.7	20.0	20.3	20.6	21.0
92.5°	20.8	21.8	22.4	22.6	22.7	22.9	23.2
95°	24.9	25.9	26.5	26.5	26.5	26.5	26.5
97.5°	26.1	27.4	28.1	28.3	28.4	28.5	28.7
100°	26.8	28.0	28.6	28.8	29.0	29.2	29.2
102.5°	34.3	30.5	28.7	29.0	29.2	29.5	29.9
105°	70.4	43.0	29.4	29.8	30.1	30.4	30.7
107.5°	219.5	199.4	179.0	158.4	137.7	117.0	96.3
110°	299.1	294.0	280.4	258.2	236.0	213.8	191.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	349.8	349.9	347.6	343.0	338.2	333.6	329.0
115°	404.8	406.4	407.4	408.0	408.7	409.3	409.9
117.5°	453.0	454.1	454.9	455.0	455.1	455.2	455.4
120°	484.7	486.0	486.6	486.6	486.6	486.6	486.6
122.5°	515.4	516.3	516.7	516.9	517.0	517.2	517.3
125°	558.7	558.9	559.3	559.5	559.9	560.2	560.5
127.5°	602.7	603.2	603.2	603.0	602.7	602.4	602.1
130°	629.3	629.9	630.1	629.7	629.5	629.1	628.8
132.5°	654.3	655.0	655.1	654.7	654.2	653.8	653.4
135°	692.2	692.7	692.7	692.2	691.8	691.3	690.9
137.5°	726.4	727.2	727.4	727.1	726.7	726.5	726.1
140°	747.8	748.4	748.6	748.2	748.0	747.6	747.3
142.5°	768.0	768.6	768.6	768.1	767.7	767.3	766.9
145°	796.4	796.7	796.8	796.8	796.8	796.8	796.8
147.5°	821.9	822.2	822.0	821.3	820.6	819.8	819.1
150°	837.5	837.8	837.8	837.2	836.8	836.3	835.9
152.5°	851.6	852.2	852.1	851.4	850.7	850.0	849.3
155°	870.9	871.7	871.6	870.8	869.8	868.9	867.9
157.5°	887.7	888.7	888.5	887.3	886.1	884.9	883.7
160°	897.2	898.1	898.0	897.0	895.9	894.8	893.8
162.5°	906.0	907.0	907.0	906.1	905.1	904.2	903.2
165°	917.7	918.9	919.0	917.9	916.8	915.7	914.6
167.5°	926.6	927.8	927.8	926.6	925.3	924.1	922.8
170°	931.6	932.8	932.8	931.6	930.3	929.2	927.9
172.5°	935.0	936.2	936.1	934.8	933.4	932.0	930.7
175°	938.8	939.9	939.8	938.6	937.4	936.1	934.9
177.5°	940.2	941.2	941.1	939.9	938.6	937.4	936.1
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3

(END OF REPORT)