

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: P332486-927

Luminaire Tested: **S123RDIW-S1165D1535U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332486-927
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: S123RDIW-S1165D1535U927-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8487.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

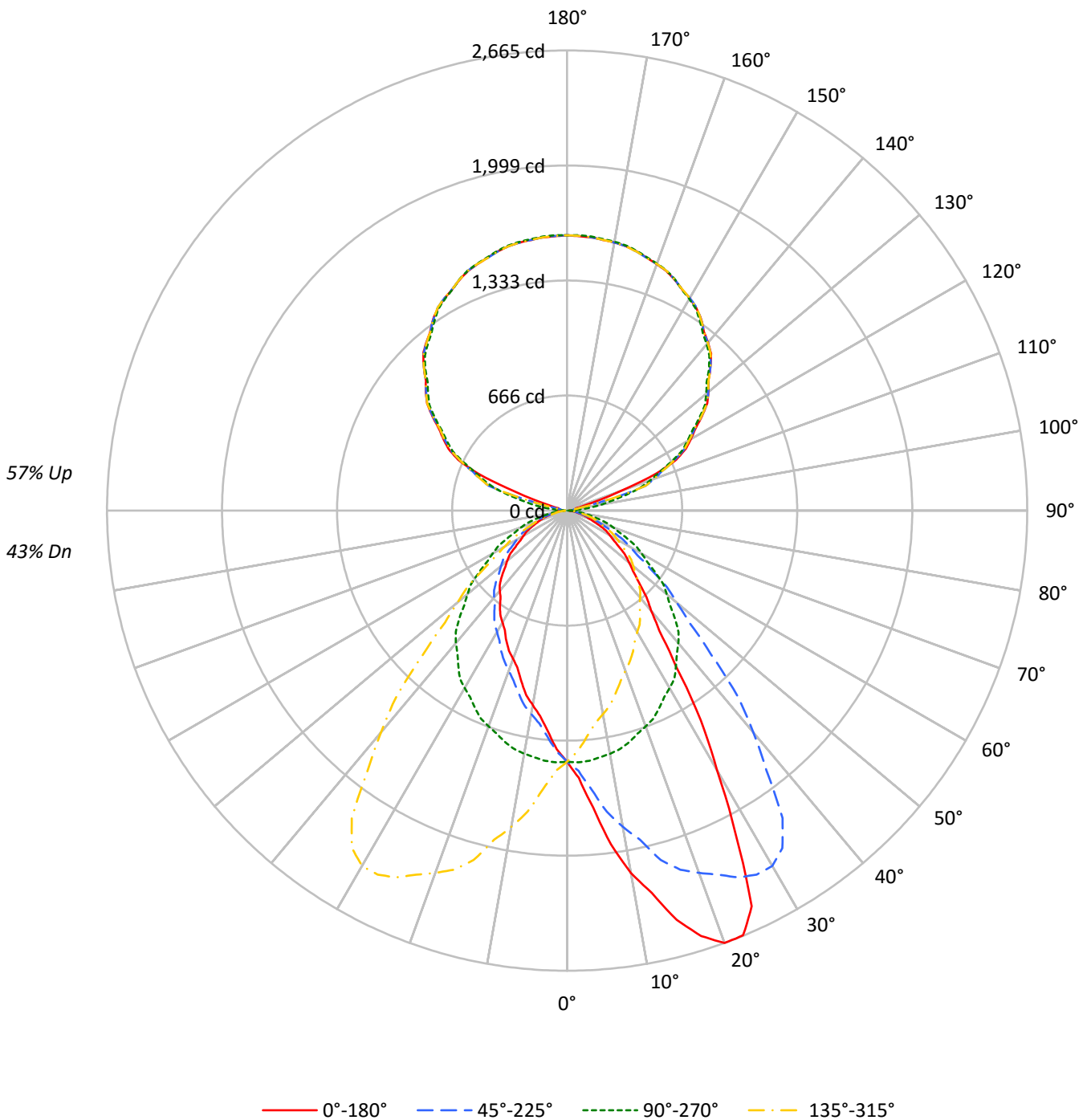
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43				
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	44	44	43	37				
2	88	81	76	71	81	75	70	66	62	59	55	50	48	46	40	38	37	32				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	27				
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24				
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	27	24	21				
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	27	24	22	19				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17				
8	54	42	35	30	50	39	32	28	33	28	24	28	24	21	22	20	18	15				
9	50	39	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14				
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15655	15655	15655	15655
5°	18662	15722	13846	15722
10°	23302	15632	12508	15632
15°	27351	15473	11407	15473
20°	30525	15234	10470	15234
25°	30037	14982	9894	14982
30°	21592	14751	9302	14751
35°	14416	14448	8918	14448
40°	10621	14085	8521	14085
45°	8910	13449	8132	13449
50°	7860	12616	7591	12616
55°	6893	11661	6848	11661
60°	6140	10749	6273	10749
65°	5392	9770	5835	9770
70°	4233	8897	5331	8897
75°	3730	7769	4870	7769
80°	3242	6602	4785	6602
85°	2618	5298	5076	5298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	1.7
10°-20°	446.9	5.3
20°-30°	702.0	8.3
30°-40°	732.4	8.6
40°-50°	626.8	7.4
50°-60°	477.7	5.6
60°-70°	306.2	3.6
70°-80°	147.3	1.7
80°-90°	43.4	0.5
90°-100°	58.0	0.7
100°-110°	276.2	3.3
110°-120°	663.5	7.8
120°-130°	844.9	10.0
130°-140°	902.7	10.6
140°-150°	844.1	9.9
150°-160°	680.9	8.0
160°-170°	439.5	5.2
170°-180°	151.5	1.8
0°-30°	1291.9	15.2
0°-40°	2024.3	23.9
0°-60°	3128.9	36.9
0°-90°	3625.8	42.7
90°-120°	997.6	11.8
90°-150°	3589.3	42.3
90°-180°	4861.0	57.3
0°-180°	8487.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1454	1454	1454	1454	1454	
5°	1727	1455	1281	1455	1727	178
15°	2454	1388	1024	1388	2454	696
25°	2529	1262	833	1262	2529	1087
35°	1097	1100	679	1100	1097	719
45°	585	884	534	884	585	460
55°	367	621	365	621	367	332
65°	212	384	229	384	212	208
75°	90	187	117	187	90	96
85°	21	43	41	43	21	25
90°	36	1	36	1	36	17
95°	45	72	45	72	45	38
105°	52	353	52	353	52	119
115°	696	662	696	662	696	643
125°	952	933	952	933	952	850
135°	1174	1162	1174	1162	1174	905
145°	1354	1341	1354	1341	1354	845
155°	1474	1477	1474	1477	1474	680
165°	1554	1557	1554	1557	1554	439
175°	1588	1594	1588	1594	1588	151
180°	1594	1594	1594	1594	1594	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1549.1	1551.1	1544.6	1543.6	1536.1	1534.1	1534.1	1523.7	1517.2	1508.8	1503.8
5°	1727.2	1737.2	1732.2	1720.9	1702.2	1697.9	1686.1	1667.4	1646.2	1620.1	1607.7
7.5°	1949.6	1963.2	1958.0	1940.6	1921.0	1905.3	1871.8	1840.9	1797.4	1759.3	1726.6
10°	2131.9	2117.6	2106.3	2089.5	2071.5	2042.2	2007.4	1959.4	1904.0	1860.4	1811.9
12.5°	2268.3	2266.0	2251.8	2234.5	2209.0	2181.2	2138.3	2080.0	2015.5	1952.6	1897.0
15°	2454.4	2458.1	2448.8	2430.7	2394.6	2345.4	2280.7	2256.5	2164.2	2095.8	2027.3
17.5°	2583.1	2582.4	2581.2	2556.1	2519.3	2484.3	2424.2	2360.4	2277.0	2180.5	2088.2
20°	2664.8	2658.6	2659.9	2631.9	2604.5	2564.0	2505.4	2412.7	2344.2	2232.8	2137.5
22.5°	2662.8	2661.7	2666.3	2656.7	2636.9	2605.8	2559.8	2481.4	2394.1	2281.6	2174.4
25°	2529.1	2524.1	2553.4	2561.5	2593.3	2598.8	2585.1	2542.2	2459.4	2343.6	2211.0
27.5°	2116.7	2113.9	2168.3	2236.3	2322.4	2389.4	2454.2	2485.4	2459.4	2376.5	2243.6
30°	1737.2	1795.6	1823.0	1921.4	2031.0	2161.8	2276.3	2385.3	2412.0	2376.0	2267.0
32.5°	1442.2	1493.3	1516.2	1600.7	1702.8	1855.9	2027.7	2182.1	2291.1	2318.6	2253.0
35°	1097.1	1097.7	1150.0	1187.3	1282.0	1439.6	1606.4	1813.1	2018.6	2174.2	2190.4
37.5°	875.4	878.5	910.1	947.4	1018.4	1101.7	1248.6	1420.5	1657.8	1896.8	2036.9
40°	755.9	761.4	785.1	821.9	872.9	935.8	1050.4	1212.3	1410.2	1676.1	1893.4
42.5°	679.1	688.2	700.4	728.7	760.3	819.3	911.9	1037.0	1217.0	1468.4	1719.1
45°	585.3	590.3	599.6	612.7	641.3	682.4	744.7	828.7	978.2	1180.5	1431.4
47.5°	516.3	513.7	523.5	534.1	553.2	581.1	622.9	691.5	798.1	960.4	1173.3
50°	469.4	468.8	475.7	483.8	501.8	522.4	556.7	608.3	693.0	827.5	1022.4
52.5°	425.6	428.0	432.8	442.9	456.0	472.6	503.4	540.6	613.3	729.4	891.8
55°	367.3	369.2	376.0	381.7	391.0	407.8	427.1	458.3	508.1	589.0	722.9
57.5°	318.1	317.2	323.8	325.1	335.7	349.4	364.3	388.5	424.6	484.8	575.0
60°	285.2	283.3	288.9	293.3	298.9	310.1	322.5	346.2	374.9	419.1	496.2
62.5°	255.2	254.4	258.5	262.8	267.5	277.7	288.1	306.3	329.0	366.2	427.5
65°	211.7	213.6	215.4	217.3	219.8	226.0	236.0	248.4	264.0	290.2	334.4
67.5°	166.4	168.3	168.9	172.7	178.1	182.0	188.1	199.2	209.9	232.0	257.1
70°	134.5	133.9	134.5	136.3	143.2	150.0	158.1	166.3	173.1	188.6	209.8
72.5°	115.6	114.5	116.1	116.5	119.8	121.7	126.7	134.4	143.2	153.8	169.0
75°	89.7	89.7	89.7	89.7	92.1	93.4	95.3	97.1	100.2	105.2	116.5
77.5°	66.2	66.4	67.3	67.9	68.4	69.1	70.3	72.1	73.2	75.8	80.7
80°	52.3	52.9	52.3	52.9	52.9	54.2	54.8	56.6	57.3	60.4	62.3
82.5°	39.4	39.0	39.4	40.0	40.0	41.2	41.4	42.7	42.9	44.4	46.3
85°	21.2	20.0	21.2	20.5	21.8	20.5	21.2	22.4	22.4	23.1	25.5
87.5°	12.1	13.0	11.9	12.3	12.2	12.5	12.3	12.1	12.8	12.1	12.0
90°	35.5	35.0	34.5	34.0	33.4	32.6	31.6	30.5	29.5	28.4	25.0
92.5°	39.3	39.0	38.7	38.3	38.0	37.1	35.4	33.7	32.0	30.3	27.7
95°	45.0	45.0	45.0	45.0	45.0	44.0	42.2	40.4	38.6	36.7	33.8
97.5°	48.8	48.6	48.2	48.0	47.8	46.6	44.4	42.4	40.2	38.1	35.1
100°	49.7	49.5	49.2	49.0	48.7	47.5	45.4	43.3	41.2	39.1	37.0
102.5°	50.7	50.2	49.7	49.3	48.8	51.8	58.4	64.9	71.4	78.0	122.8
105°	52.1	51.6	51.1	50.5	50.0	73.0	119.6	166.2	212.8	259.4	283.0
107.5°	163.7	198.8	233.9	269.0	304.1	338.7	372.9	407.0	441.2	475.4	471.7
110°	325.7	363.3	400.9	438.6	476.2	499.4	508.0	516.7	525.5	534.1	531.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	558.7	566.7	574.6	582.6	590.6	594.5	594.3	594.1	594.0	593.8	590.9
115°	696.4	695.3	694.3	693.2	692.1	690.3	687.7	685.1	682.4	679.8	677.4
117.5°	773.6	773.4	773.2	772.9	772.8	771.6	769.4	767.4	765.2	763.2	761.9
120°	826.6	826.6	826.6	826.6	826.6	825.6	823.5	821.4	819.3	817.1	816.3
122.5°	878.8	878.5	878.3	878.1	877.9	877.1	875.6	874.1	872.7	871.2	870.1
125°	952.2	951.6	951.1	950.6	950.1	949.5	949.0	948.5	948.0	947.5	946.4
127.5°	1022.8	1023.3	1023.8	1024.4	1024.8	1024.7	1023.9	1023.0	1022.2	1021.4	1020.1
130°	1068.3	1068.7	1069.3	1069.8	1070.3	1070.1	1069.1	1067.9	1066.9	1065.9	1064.9
132.5°	1109.9	1110.6	1111.4	1112.1	1112.9	1112.7	1111.7	1110.6	1109.5	1108.5	1107.6
135°	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8	1176.0	1175.2	1174.4	1173.6	1172.6
137.5°	1233.6	1234.1	1234.6	1235.2	1235.6	1235.3	1234.1	1232.8	1231.5	1230.3	1229.7
140°	1269.6	1270.1	1270.7	1271.1	1271.7	1271.4	1270.3	1269.3	1268.3	1267.2	1266.4
142.5°	1302.7	1303.5	1304.2	1305.0	1305.7	1305.6	1304.8	1303.9	1303.1	1302.3	1301.5
145°	1353.7	1353.7	1353.7	1353.7	1353.7	1353.4	1352.9	1352.3	1351.8	1351.3	1350.8
147.5°	1391.5	1392.7	1394.0	1395.2	1396.4	1396.8	1396.2	1395.7	1395.2	1394.6	1394.1
150°	1420.0	1420.8	1421.6	1422.4	1423.2	1423.2	1422.8	1422.2	1421.7	1421.2	1420.6
152.5°	1442.7	1443.9	1445.1	1446.4	1447.6	1447.7	1446.8	1445.8	1444.9	1443.9	1443.6
155°	1474.5	1476.0	1477.6	1479.2	1480.7	1480.9	1479.6	1478.3	1476.9	1475.6	1475.4
157.5°	1501.2	1503.2	1505.3	1507.4	1509.4	1509.7	1508.1	1506.5	1504.9	1503.3	1503.6
160°	1518.3	1520.1	1521.9	1523.8	1525.7	1525.7	1524.2	1522.7	1521.1	1519.5	1519.7
162.5°	1534.4	1536.0	1537.6	1539.3	1540.9	1540.8	1539.1	1537.2	1535.5	1533.7	1533.9
165°	1553.8	1555.6	1557.5	1559.3	1561.2	1561.1	1558.9	1556.8	1554.7	1552.6	1552.9
167.5°	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2	1574.1	1572.0	1569.9	1567.8	1567.8
170°	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8	1582.6	1580.5	1578.4	1576.3	1576.3
172.5°	1581.0	1583.3	1585.7	1588.0	1590.3	1590.4	1588.3	1586.2	1584.1	1582.0	1581.8
175°	1588.2	1590.2	1592.4	1594.4	1596.6	1596.7	1594.8	1593.0	1591.2	1589.4	1589.0
177.5°	1590.3	1592.4	1594.5	1596.6	1598.7	1598.9	1597.2	1595.5	1593.9	1592.2	1592.0
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1501.8	1500.3	1493.3	1485.3	1474.9	1467.9	1462.4	1459.4	1450.5	1439.6	1432.0
5°	1594.6	1575.9	1555.9	1531.7	1509.3	1486.2	1471.9	1455.1	1434.6	1411.5	1395.3
7.5°	1693.9	1657.3	1617.9	1577.2	1536.9	1500.8	1468.9	1441.6	1408.9	1375.9	1352.7
10°	1770.1	1716.6	1661.2	1604.5	1552.8	1504.3	1466.9	1430.2	1391.0	1353.0	1324.4
12.5°	1839.4	1768.9	1705.0	1635.4	1569.3	1511.2	1457.5	1414.2	1367.1	1326.6	1294.0
15°	1927.1	1854.8	1777.6	1671.7	1584.0	1510.5	1445.1	1388.5	1331.2	1281.4	1249.6
17.5°	2009.0	1900.3	1796.5	1708.3	1594.2	1502.4	1422.6	1354.9	1292.0	1239.1	1200.1
20°	2042.9	1937.6	1825.0	1712.2	1600.1	1497.5	1404.6	1329.9	1264.6	1204.8	1168.7
22.5°	2063.2	1944.1	1825.4	1704.3	1585.2	1478.5	1386.7	1304.6	1233.7	1176.9	1132.3
25°	2087.1	1945.1	1814.3	1694.8	1573.4	1457.6	1348.6	1261.5	1184.9	1124.5	1077.1
27.5°	2102.8	1935.8	1781.2	1648.4	1525.2	1409.8	1310.0	1217.6	1140.0	1076.0	1025.2
30°	2105.7	1928.3	1755.8	1612.0	1486.8	1381.0	1275.2	1186.8	1104.5	1036.6	989.4
32.5°	2109.7	1909.9	1721.4	1568.7	1440.5	1335.7	1239.8	1155.3	1071.2	1004.3	956.0
35°	2093.3	1899.7	1669.3	1493.7	1365.4	1263.9	1177.4	1099.5	1016.8	952.0	902.9
37.5°	2022.5	1859.2	1615.3	1409.3	1275.2	1181.1	1110.6	1042.7	966.9	897.0	850.6
40°	1951.3	1819.3	1573.4	1358.0	1217.9	1121.3	1057.9	1002.4	929.0	863.6	813.8
42.5°	1845.2	1765.1	1533.5	1304.2	1153.1	1060.1	1006.5	954.6	890.1	823.7	776.9
45°	1650.6	1661.2	1452.0	1218.5	1063.4	970.0	919.6	883.5	826.2	771.4	723.5
47.5°	1406.5	1505.5	1356.2	1127.2	968.9	881.3	837.2	805.6	767.1	713.3	669.6
50°	1247.1	1388.5	1279.5	1066.0	909.7	822.5	778.9	753.4	719.8	677.4	635.7
52.5°	1100.2	1252.0	1186.8	997.7	845.4	765.7	723.1	702.1	675.4	635.6	597.9
55°	897.2	1051.0	1036.1	894.7	749.0	677.4	645.1	621.4	603.3	573.5	543.6
57.5°	725.7	871.6	879.2	780.1	664.1	593.3	565.5	547.6	535.8	513.3	485.7
60°	617.7	751.5	777.7	703.0	603.3	541.1	513.7	499.3	490.0	472.0	450.8
62.5°	528.0	641.9	671.5	617.7	545.0	486.8	465.3	451.5	445.2	429.6	410.9
65°	404.1	498.8	527.4	497.5	459.5	412.8	395.4	383.6	378.0	369.2	355.5
67.5°	303.9	372.8	404.3	383.2	369.5	339.9	328.8	322.5	317.5	311.6	300.1
70°	244.1	295.1	327.5	321.9	310.7	295.1	287.0	282.7	277.7	272.7	262.8
72.5°	196.2	231.4	261.7	264.6	255.4	252.3	245.2	243.4	240.3	234.3	228.9
75°	130.2	154.4	175.5	183.7	187.4	190.5	187.4	186.8	186.2	181.2	178.1
77.5°	85.3	98.4	111.7	125.6	131.3	135.6	136.6	138.9	137.2	134.6	133.1
80°	65.4	68.5	77.8	89.7	99.0	102.7	105.2	106.5	105.8	105.2	102.7
82.5°	47.5	50.1	54.4	62.7	70.6	76.8	78.3	78.1	79.5	79.9	77.8
85°	25.5	26.1	27.4	28.7	33.0	39.8	41.7	42.9	44.2	44.2	40.5
87.5°	12.3	11.1	11.4	10.8	11.8	11.7	14.2	16.2	17.2	15.8	16.2
90°	21.5	18.1	14.7	11.7	9.1	6.4	3.8	1.2	3.8	6.4	9.1
92.5°	25.2	22.6	20.0	19.1	19.8	20.5	21.3	22.0	21.3	20.5	19.8
95°	30.9	28.0	25.1	29.1	39.8	50.7	61.5	72.2	61.5	50.7	39.8
97.5°	76.0	95.0	113.9	125.8	130.6	135.5	140.4	145.2	140.4	135.5	130.6
100°	121.2	162.2	203.3	221.2	215.9	210.6	205.4	200.2	205.4	210.6	215.9
102.5°	167.6	212.5	257.3	277.8	274.0	270.3	266.5	262.7	266.5	270.3	274.0
105°	306.7	330.4	354.1	364.5	361.6	358.7	355.8	352.9	355.8	358.7	361.6
107.5°	467.9	464.1	460.4	457.4	455.1	452.7	450.4	448.1	450.4	452.7	455.1
110°	528.3	525.5	522.5	520.1	517.9	515.8	513.7	511.6	513.7	515.8	517.9



TEST NUMBER: P332486-927

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	588.0	585.1	582.3	579.8	578.0	576.1	574.2	572.3	574.2	576.1	578.0
115°	675.0	672.7	670.3	668.4	666.8	665.2	663.6	662.0	663.6	665.2	666.8
117.5°	760.7	759.5	758.4	756.8	754.8	752.8	750.9	748.9	750.9	752.8	754.8
120°	815.6	814.8	814.0	812.5	810.1	807.7	805.3	803.0	805.3	807.7	810.1
122.5°	869.2	868.2	867.2	865.7	863.7	861.8	859.8	857.9	859.8	861.8	863.7
125°	945.3	944.3	943.3	941.7	939.5	937.5	935.3	933.2	935.3	937.5	939.5
127.5°	1018.8	1017.6	1016.3	1014.6	1012.5	1010.4	1008.3	1006.2	1008.3	1010.4	1012.5
130°	1063.7	1062.7	1061.7	1060.1	1058.0	1055.9	1053.8	1051.6	1053.8	1055.9	1058.0
132.5°	1106.8	1106.0	1105.2	1103.7	1101.5	1099.5	1097.3	1095.3	1097.3	1099.5	1101.5
135°	1171.6	1170.4	1169.4	1168.2	1166.6	1165.0	1163.4	1161.8	1163.4	1165.0	1166.6
137.5°	1229.1	1228.5	1228.0	1226.6	1224.6	1222.7	1220.7	1218.6	1220.7	1222.7	1224.6
140°	1265.6	1264.8	1264.0	1262.9	1261.3	1259.7	1258.1	1256.6	1258.1	1259.7	1261.3
142.5°	1300.7	1299.9	1299.1	1297.9	1296.3	1294.7	1293.2	1291.6	1293.2	1294.7	1296.3
145°	1350.2	1349.7	1349.2	1348.0	1346.2	1344.3	1342.4	1340.6	1342.4	1344.3	1346.2
147.5°	1393.6	1393.1	1392.5	1391.6	1390.4	1389.3	1388.1	1386.8	1388.1	1389.3	1390.4
150°	1420.1	1419.6	1419.0	1418.4	1417.6	1416.8	1416.0	1415.2	1416.0	1416.8	1417.6
152.5°	1443.3	1443.0	1442.6	1442.3	1441.9	1441.5	1441.2	1440.8	1441.2	1441.5	1441.9
155°	1475.1	1474.9	1474.6	1474.7	1475.3	1475.8	1476.3	1476.8	1476.3	1475.8	1475.3
157.5°	1503.9	1504.1	1504.4	1504.6	1504.6	1504.7	1504.8	1504.8	1504.8	1504.7	1504.6
160°	1520.0	1520.3	1520.5	1520.8	1521.1	1521.3	1521.5	1521.9	1521.5	1521.3	1521.1
162.5°	1534.2	1534.5	1534.7	1535.2	1535.9	1536.6	1537.2	1537.9	1537.2	1536.6	1535.9
165°	1553.2	1553.4	1553.7	1554.2	1555.0	1555.8	1556.6	1557.4	1556.6	1555.8	1555.0
167.5°	1567.8	1567.8	1567.8	1568.3	1569.4	1570.4	1571.5	1572.5	1571.5	1570.4	1569.4
170°	1576.3	1576.3	1576.3	1576.8	1577.9	1578.9	1580.0	1581.0	1580.0	1578.9	1577.9
172.5°	1581.6	1581.4	1581.1	1581.7	1582.9	1584.2	1585.5	1586.7	1585.5	1584.2	1582.9
175°	1588.8	1588.6	1588.2	1588.8	1590.1	1591.4	1592.8	1594.0	1592.8	1591.4	1590.1
177.5°	1591.7	1591.6	1591.3	1591.7	1592.8	1593.9	1594.9	1595.9	1594.9	1593.9	1592.8
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1429.6	1423.1	1418.6	1408.7	1402.2	1395.2	1388.2	1392.7	1392.2	1391.7	1391.7
5°	1381.6	1367.3	1354.2	1337.4	1326.8	1313.8	1303.8	1302.5	1305.0	1296.3	1291.3
7.5°	1334.0	1314.5	1295.9	1277.4	1257.7	1242.1	1232.2	1227.6	1221.2	1215.8	1210.3
10°	1300.7	1277.6	1259.6	1236.5	1215.4	1196.7	1184.9	1176.8	1172.4	1168.1	1160.0
12.5°	1266.3	1243.8	1220.8	1194.7	1174.6	1152.9	1144.0	1135.0	1126.6	1121.7	1110.6
15°	1216.0	1186.8	1162.4	1135.0	1112.6	1091.5	1079.0	1061.0	1058.4	1052.3	1041.0
17.5°	1165.5	1133.8	1100.3	1080.0	1054.7	1032.7	1013.8	1007.7	989.8	983.1	973.4
20°	1125.7	1096.5	1071.0	1044.2	1007.4	986.9	971.9	963.8	949.5	940.8	934.5
22.5°	1091.3	1061.6	1032.1	1000.8	970.6	947.5	936.6	924.0	916.2	904.0	897.2
25°	1042.3	1009.9	974.4	940.8	919.0	901.6	884.2	872.9	861.7	856.1	843.7
27.5°	985.2	951.4	918.2	892.7	865.9	848.7	833.0	823.0	809.5	800.1	793.2
30°	953.9	914.0	885.3	862.4	828.1	811.9	800.1	787.7	777.7	767.7	760.9
32.5°	917.5	881.1	854.0	825.5	799.2	781.5	766.2	755.3	746.8	737.3	730.5
35°	860.5	830.0	801.9	773.3	754.0	735.9	717.9	708.5	700.4	691.7	685.6
37.5°	808.9	780.4	753.8	726.6	702.7	688.0	673.4	666.3	655.4	649.5	643.2
40°	777.1	749.0	720.4	694.3	669.3	658.1	645.1	634.5	624.5	620.1	613.3
42.5°	742.2	714.2	690.0	661.9	641.4	626.2	614.2	602.6	595.1	588.7	584.9
45°	690.5	665.6	641.9	613.9	594.6	581.5	567.8	557.2	550.4	546.1	539.2
47.5°	640.3	615.4	591.4	567.0	548.3	533.4	519.7	512.3	503.2	497.9	493.2
50°	604.0	581.5	556.0	533.6	514.9	499.9	488.8	479.4	471.3	464.5	461.4
52.5°	570.6	546.7	524.7	503.7	484.0	467.1	456.9	447.0	440.9	433.1	429.5
55°	515.6	492.5	473.8	453.3	434.0	419.6	407.2	398.5	392.3	383.6	378.6
57.5°	463.8	443.2	420.9	403.1	383.2	371.1	360.8	349.0	341.4	334.5	329.6
60°	429.0	405.4	386.0	369.2	351.8	336.2	326.9	317.5	309.4	302.6	298.3
62.5°	392.6	371.9	353.6	335.3	319.4	305.9	295.0	287.2	280.0	275.7	271.3
65°	336.8	320.7	302.0	287.0	272.1	262.1	253.4	246.5	241.6	238.4	234.7
67.5°	285.5	269.8	253.5	238.8	228.9	221.3	215.6	209.7	207.2	203.2	200.7
70°	252.2	236.0	221.7	210.5	200.5	194.9	191.2	186.8	184.3	179.4	176.8
72.5°	215.8	204.1	193.8	184.6	176.6	171.5	166.8	161.4	157.4	151.9	149.4
75°	170.0	159.4	151.3	145.0	140.1	133.2	126.4	120.8	118.9	117.1	116.5
77.5°	125.9	119.1	113.3	108.1	101.9	96.9	95.4	94.1	93.8	92.8	92.8
80°	99.0	92.8	88.4	82.1	78.4	78.4	78.4	77.2	77.8	77.8	77.8
82.5°	73.6	67.9	65.5	63.3	62.5	63.0	63.0	63.3	62.9	63.8	63.4
85°	37.9	38.6	39.8	39.2	39.8	39.8	41.1	40.5	41.1	39.8	41.1
87.5°	16.3	18.4	19.6	20.8	21.9	22.1	22.8	23.1	23.8	23.9	24.1
90°	11.7	14.7	18.1	21.5	25.0	28.4	29.5	30.5	31.6	32.6	33.4
92.5°	19.1	20.0	22.6	25.2	27.7	30.3	32.0	33.7	35.4	37.1	38.0
95°	29.1	25.1	28.0	30.9	33.8	36.7	38.6	40.4	42.2	44.0	45.0
97.5°	125.8	113.9	95.0	76.0	57.1	38.1	40.2	42.4	44.4	46.6	47.8
100°	221.2	203.3	162.2	121.2	80.2	39.1	41.2	43.3	45.4	47.5	48.7
102.5°	277.8	257.3	212.5	167.6	122.8	78.0	71.4	64.9	58.4	51.8	48.8
105°	364.5	354.1	330.4	306.7	283.0	259.4	212.8	166.2	119.6	73.0	50.0
107.5°	457.4	460.4	464.1	467.9	471.7	475.4	441.2	407.0	372.9	338.7	304.1
110°	520.1	522.5	525.5	528.3	531.2	534.1	525.5	516.7	508.0	499.4	476.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	579.8	582.3	585.1	588.0	590.9	593.8	594.0	594.1	594.3	594.5	590.6
115°	668.4	670.3	672.7	675.0	677.4	679.8	682.4	685.1	687.7	690.3	692.1
117.5°	756.8	758.4	759.5	760.7	761.9	763.2	765.2	767.4	769.4	771.6	772.8
120°	812.5	814.0	814.8	815.6	816.3	817.1	819.3	821.4	823.5	825.6	826.6
122.5°	865.7	867.2	868.2	869.2	870.1	871.2	872.7	874.1	875.6	877.1	877.9
125°	941.7	943.3	944.3	945.3	946.4	947.5	948.0	948.5	949.0	949.5	950.1
127.5°	1014.6	1016.3	1017.6	1018.8	1020.1	1021.4	1022.2	1023.0	1023.9	1024.7	1024.8
130°	1060.1	1061.7	1062.7	1063.7	1064.9	1065.9	1066.9	1067.9	1069.1	1070.1	1070.3
132.5°	1103.7	1105.2	1106.0	1106.8	1107.6	1108.5	1109.5	1110.6	1111.7	1112.7	1112.9
135°	1168.2	1169.4	1170.4	1171.6	1172.6	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8
137.5°	1226.6	1228.0	1228.5	1229.1	1229.7	1230.3	1231.5	1232.8	1234.1	1235.3	1235.6
140°	1262.9	1264.0	1264.8	1265.6	1266.4	1267.2	1268.3	1269.3	1270.3	1271.4	1271.7
142.5°	1297.9	1299.1	1299.9	1300.7	1301.5	1302.3	1303.1	1303.9	1304.8	1305.6	1305.7
145°	1348.0	1349.2	1349.7	1350.2	1350.8	1351.3	1351.8	1352.3	1352.9	1353.4	1353.7
147.5°	1391.6	1392.5	1393.1	1393.6	1394.1	1394.6	1395.2	1395.7	1396.2	1396.8	1396.4
150°	1418.4	1419.0	1419.6	1420.1	1420.6	1421.2	1421.7	1422.2	1422.8	1423.2	1423.2
152.5°	1442.3	1442.6	1443.0	1443.3	1443.6	1443.9	1444.9	1445.8	1446.8	1447.7	1447.6
155°	1474.7	1474.6	1474.9	1475.1	1475.4	1475.6	1476.9	1478.3	1479.6	1480.9	1480.7
157.5°	1504.6	1504.4	1504.1	1503.9	1503.6	1503.3	1504.9	1506.5	1508.1	1509.7	1509.4
160°	1520.8	1520.5	1520.3	1520.0	1519.7	1519.5	1521.1	1522.7	1524.2	1525.7	1525.7
162.5°	1535.2	1534.7	1534.5	1534.2	1533.9	1533.7	1535.5	1537.2	1539.1	1540.8	1540.9
165°	1554.2	1553.7	1553.4	1553.2	1552.9	1552.6	1554.7	1556.8	1558.9	1561.1	1561.2
167.5°	1568.3	1567.8	1567.8	1567.8	1567.8	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2
170°	1576.8	1576.3	1576.3	1576.3	1576.3	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8
172.5°	1581.7	1581.1	1581.4	1581.6	1581.8	1582.0	1584.1	1586.2	1588.3	1590.4	1590.3
175°	1588.8	1588.2	1588.6	1588.8	1589.0	1589.4	1591.2	1593.0	1594.8	1596.7	1596.6
177.5°	1591.7	1591.3	1591.6	1591.7	1592.0	1592.2	1593.9	1595.5	1597.2	1598.9	1598.7
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1385.8	1385.2	1385.8	1383.7	1385.8	1385.2	1385.8	1391.7	1391.7	1392.2	1392.7
5°	1289.4	1288.9	1287.0	1281.4	1287.0	1288.9	1289.4	1291.3	1296.3	1305.0	1302.5
7.5°	1205.4	1204.5	1199.0	1199.2	1199.0	1204.5	1205.4	1210.3	1215.8	1221.2	1227.6
10°	1155.6	1156.2	1148.7	1144.4	1148.7	1156.2	1155.6	1160.0	1168.1	1172.4	1176.8
12.5°	1107.3	1104.5	1098.4	1093.6	1098.4	1104.5	1107.3	1110.6	1121.7	1126.6	1135.0
15°	1043.5	1037.3	1022.4	1023.6	1022.4	1037.3	1043.5	1041.0	1052.3	1058.4	1061.0
17.5°	968.4	963.8	963.6	954.9	963.6	963.8	968.4	973.4	983.1	989.8	1007.7
20°	924.6	921.5	922.7	914.0	922.7	921.5	924.6	934.5	940.8	949.5	963.8
22.5°	890.3	887.1	881.9	879.2	881.9	887.1	890.3	897.2	904.0	916.2	924.0
25°	840.0	835.0	830.0	833.1	830.0	835.0	840.0	843.7	856.1	861.7	872.9
27.5°	789.6	785.9	780.9	780.3	780.9	785.9	789.6	793.2	800.1	809.5	823.0
30°	757.7	754.0	751.5	748.4	751.5	754.0	757.7	760.9	767.7	777.7	787.7
32.5°	725.4	724.6	720.2	719.5	720.2	724.6	725.4	730.5	737.3	746.8	755.3
35°	683.0	679.3	678.0	678.7	678.0	679.3	683.0	685.6	691.7	700.4	708.5
37.5°	642.8	637.8	635.6	633.3	635.6	637.8	642.8	643.2	649.5	655.4	666.3
40°	613.9	609.0	607.7	606.4	607.7	609.0	613.9	613.3	620.1	624.5	634.5
42.5°	581.5	579.6	578.8	576.6	578.8	579.6	581.5	584.9	588.7	595.1	602.6
45°	537.3	536.7	533.0	534.2	533.0	536.7	537.3	539.2	546.1	550.4	557.2
47.5°	490.8	488.0	485.4	487.1	485.4	488.0	490.8	493.2	497.9	503.2	512.3
50°	458.9	457.6	452.0	453.3	452.0	457.6	458.9	461.4	464.5	471.3	479.4
52.5°	427.0	422.2	420.2	419.4	420.2	422.2	427.0	429.5	433.1	440.9	447.0
55°	374.2	368.6	366.1	364.9	366.1	368.6	374.2	378.6	383.6	392.3	398.5
57.5°	322.4	320.9	318.9	320.3	318.9	320.9	322.4	329.6	334.5	341.4	349.0
60°	292.0	292.0	292.0	291.4	292.0	292.0	292.0	298.3	302.6	309.4	317.5
62.5°	268.6	267.1	266.6	267.5	266.6	267.1	268.6	271.3	275.7	280.0	287.2
65°	232.9	232.3	229.7	229.1	229.7	232.3	232.9	234.7	238.4	241.6	246.5
67.5°	199.2	196.9	196.1	195.3	196.1	196.9	199.2	200.7	203.2	207.2	209.7
70°	173.7	172.5	168.7	169.4	168.7	172.5	173.7	176.8	179.4	184.3	186.8
72.5°	146.3	145.0	144.3	143.5	144.3	145.0	146.3	149.4	151.9	157.4	161.4
75°	115.8	115.2	114.5	117.1	114.5	115.2	115.8	116.5	117.1	118.9	120.8
77.5°	92.8	92.8	93.2	92.1	93.2	92.8	92.8	92.8	92.8	93.8	94.1
80°	77.8	77.8	77.2	77.2	77.2	77.8	77.8	77.8	77.8	77.8	77.2
82.5°	62.4	62.9	63.3	62.3	63.3	62.9	62.4	63.4	63.8	62.9	63.3
85°	41.1	40.5	41.7	41.1	41.7	40.5	41.1	41.1	39.8	41.1	40.5
87.5°	25.2	24.3	24.4	25.0	24.4	24.3	25.2	24.1	23.9	23.8	23.1
90°	34.0	34.5	35.0	35.5	35.0	34.5	34.0	33.4	32.6	31.6	30.5
92.5°	38.3	38.7	39.0	39.3	39.0	38.7	38.3	38.0	37.1	35.4	33.7
95°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.0	42.2	40.4
97.5°	48.0	48.2	48.6	48.8	48.6	48.2	48.0	47.8	46.6	44.4	42.4
100°	49.0	49.2	49.5	49.7	49.5	49.2	49.0	48.7	47.5	45.4	43.3
102.5°	49.3	49.7	50.2	50.7	50.2	49.7	49.3	48.8	51.8	58.4	64.9
105°	50.5	51.1	51.6	52.1	51.6	51.1	50.5	50.0	73.0	119.6	166.2
107.5°	269.0	233.9	198.8	163.7	198.8	233.9	269.0	304.1	338.7	372.9	407.0
110°	438.6	400.9	363.3	325.7	363.3	400.9	438.6	476.2	499.4	508.0	516.7



TEST NUMBER: P332486-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	582.6	574.6	566.7	558.7	566.7	574.6	582.6	590.6	594.5	594.3	594.1
115°	693.2	694.3	695.3	696.4	695.3	694.3	693.2	692.1	690.3	687.7	685.1
117.5°	772.9	773.2	773.4	773.6	773.4	773.2	772.9	772.8	771.6	769.4	767.4
120°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	825.6	823.5	821.4
122.5°	878.1	878.3	878.5	878.8	878.5	878.3	878.1	877.9	877.1	875.6	874.1
125°	950.6	951.1	951.6	952.2	951.6	951.1	950.6	950.1	949.5	949.0	948.5
127.5°	1024.4	1023.8	1023.3	1022.8	1023.3	1023.8	1024.4	1024.8	1024.7	1023.9	1023.0
130°	1069.8	1069.3	1068.7	1068.3	1068.7	1069.3	1069.8	1070.3	1070.1	1069.1	1067.9
132.5°	1112.1	1111.4	1110.6	1109.9	1110.6	1111.4	1112.1	1112.9	1112.7	1111.7	1110.6
135°	1176.0	1175.2	1174.4	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8	1176.0	1175.2
137.5°	1235.2	1234.6	1234.1	1233.6	1234.1	1234.6	1235.2	1235.6	1235.3	1234.1	1232.8
140°	1271.1	1270.7	1270.1	1269.6	1270.1	1270.7	1271.1	1271.7	1271.4	1270.3	1269.3
142.5°	1305.0	1304.2	1303.5	1302.7	1303.5	1304.2	1305.0	1305.7	1305.6	1304.8	1303.9
145°	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.4	1352.9	1352.3
147.5°	1395.2	1394.0	1392.7	1391.5	1392.7	1394.0	1395.2	1396.4	1396.8	1396.2	1395.7
150°	1422.4	1421.6	1420.8	1420.0	1420.8	1421.6	1422.4	1423.2	1423.2	1422.8	1422.2
152.5°	1446.4	1445.1	1443.9	1442.7	1443.9	1445.1	1446.4	1447.6	1447.7	1446.8	1445.8
155°	1479.2	1477.6	1476.0	1474.5	1476.0	1477.6	1479.2	1480.7	1480.9	1479.6	1478.3
157.5°	1507.4	1505.3	1503.2	1501.2	1503.2	1505.3	1507.4	1509.4	1509.7	1508.1	1506.5
160°	1523.8	1521.9	1520.1	1518.3	1520.1	1521.9	1523.8	1525.7	1525.7	1524.2	1522.7
162.5°	1539.3	1537.6	1536.0	1534.4	1536.0	1537.6	1539.3	1540.9	1540.8	1539.1	1537.2
165°	1559.3	1557.5	1555.6	1553.8	1555.6	1557.5	1559.3	1561.2	1561.1	1558.9	1556.8
167.5°	1574.1	1572.0	1569.9	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2	1574.1	1572.0
170°	1582.6	1580.5	1578.4	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8	1582.6	1580.5
172.5°	1588.0	1585.7	1583.3	1581.0	1583.3	1585.7	1588.0	1590.3	1590.4	1588.3	1586.2
175°	1594.4	1592.4	1590.2	1588.2	1590.2	1592.4	1594.4	1596.6	1596.7	1594.8	1593.0
177.5°	1596.6	1594.5	1592.4	1590.3	1592.4	1594.5	1596.6	1598.7	1598.9	1597.2	1595.5
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1388.2	1395.2	1402.2	1408.7	1418.6	1423.1	1429.6	1432.0	1439.6	1450.5	1459.4
5°	1303.8	1313.8	1326.8	1337.4	1354.2	1367.3	1381.6	1395.3	1411.5	1434.6	1455.1
7.5°	1232.2	1242.1	1257.7	1277.4	1295.9	1314.5	1334.0	1352.7	1375.9	1408.9	1441.6
10°	1184.9	1196.7	1215.4	1236.5	1259.6	1277.6	1300.7	1324.4	1353.0	1391.0	1430.2
12.5°	1144.0	1152.9	1174.6	1194.7	1220.8	1243.8	1266.3	1294.0	1326.6	1367.1	1414.2
15°	1079.0	1091.5	1112.6	1135.0	1162.4	1186.8	1216.0	1249.6	1281.4	1331.2	1388.5
17.5°	1013.8	1032.7	1054.7	1080.0	1100.3	1133.8	1165.5	1200.1	1239.1	1292.0	1354.9
20°	971.9	986.9	1007.4	1044.2	1071.0	1096.5	1125.7	1168.7	1204.8	1264.6	1329.9
22.5°	936.6	947.5	970.6	1000.8	1032.1	1061.6	1091.3	1132.3	1176.9	1233.7	1304.6
25°	884.2	901.6	919.0	940.8	974.4	1009.9	1042.3	1077.1	1124.5	1184.9	1261.5
27.5°	833.0	848.7	865.9	892.7	918.2	951.4	985.2	1025.2	1076.0	1140.0	1217.6
30°	800.1	811.9	828.1	862.4	885.3	914.0	953.9	989.4	1036.6	1104.5	1186.8
32.5°	766.2	781.5	799.2	825.5	854.0	881.1	917.5	956.0	1004.3	1071.2	1155.3
35°	717.9	735.9	754.0	773.3	801.9	830.0	860.5	902.9	952.0	1016.8	1099.5
37.5°	673.4	688.0	702.7	726.6	753.8	780.4	808.9	850.6	897.0	966.9	1042.7
40°	645.1	658.1	669.3	694.3	720.4	749.0	777.1	813.8	863.6	929.0	1002.4
42.5°	614.2	626.2	641.4	661.9	690.0	714.2	742.2	776.9	823.7	890.1	954.6
45°	567.8	581.5	594.6	613.9	641.9	665.6	690.5	723.5	771.4	826.2	883.5
47.5°	519.7	533.4	548.3	567.0	591.4	615.4	640.3	669.6	713.3	767.1	805.6
50°	488.8	499.9	514.9	533.6	556.0	581.5	604.0	635.7	677.4	719.8	753.4
52.5°	456.9	467.1	484.0	503.7	524.7	546.7	570.6	597.9	635.6	675.4	702.1
55°	407.2	419.6	434.0	453.3	473.8	492.5	515.6	543.6	573.5	603.3	621.4
57.5°	360.8	371.1	383.2	403.1	420.9	443.2	463.8	485.7	513.3	535.8	547.6
60°	326.9	336.2	351.8	369.2	386.0	405.4	429.0	450.8	472.0	490.0	499.3
62.5°	295.0	305.9	319.4	335.3	353.6	371.9	392.6	410.9	429.6	445.2	451.5
65°	253.4	262.1	272.1	287.0	302.0	320.7	336.8	355.5	369.2	378.0	383.6
67.5°	215.6	221.3	228.9	238.8	253.5	269.8	285.5	300.1	311.6	317.5	322.5
70°	191.2	194.9	200.5	210.5	221.7	236.0	252.2	262.8	272.7	277.7	282.7
72.5°	166.8	171.5	176.6	184.6	193.8	204.1	215.8	228.9	234.3	240.3	243.4
75°	126.4	133.2	140.1	145.0	151.3	159.4	170.0	178.1	181.2	186.2	186.8
77.5°	95.4	96.9	101.9	108.1	113.3	119.1	125.9	133.1	134.6	137.2	138.9
80°	78.4	78.4	78.4	82.1	88.4	92.8	99.0	102.7	105.2	105.8	106.5
82.5°	63.0	63.0	62.5	63.3	65.5	67.9	73.6	77.8	79.9	79.5	78.1
85°	41.1	39.8	39.8	39.2	39.8	38.6	37.9	40.5	44.2	44.2	42.9
87.5°	22.8	22.1	21.9	20.8	19.6	18.4	16.3	16.2	15.8	17.2	16.2
90°	29.5	28.4	25.0	21.5	18.1	14.7	11.7	9.1	6.4	3.8	1.2
92.5°	32.0	30.3	27.7	25.2	22.6	20.0	19.1	19.8	20.5	21.3	22.0
95°	38.6	36.7	33.8	30.9	28.0	25.1	29.1	39.8	50.7	61.5	72.2
97.5°	40.2	38.1	57.1	76.0	95.0	113.9	125.8	130.6	135.5	140.4	145.2
100°	41.2	39.1	80.2	121.2	162.2	203.3	221.2	215.9	210.6	205.4	200.2
102.5°	71.4	78.0	122.8	167.6	212.5	257.3	277.8	274.0	270.3	266.5	262.7
105°	212.8	259.4	283.0	306.7	330.4	354.1	364.5	361.6	358.7	355.8	352.9
107.5°	441.2	475.4	471.7	467.9	464.1	460.4	457.4	455.1	452.7	450.4	448.1
110°	525.5	534.1	531.2	528.3	525.5	522.5	520.1	517.9	515.8	513.7	511.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	594.0	593.8	590.9	588.0	585.1	582.3	579.8	578.0	576.1	574.2	572.3
115°	682.4	679.8	677.4	675.0	672.7	670.3	668.4	666.8	665.2	663.6	662.0
117.5°	765.2	763.2	761.9	760.7	759.5	758.4	756.8	754.8	752.8	750.9	748.9
120°	819.3	817.1	816.3	815.6	814.8	814.0	812.5	810.1	807.7	805.3	803.0
122.5°	872.7	871.2	870.1	869.2	868.2	867.2	865.7	863.7	861.8	859.8	857.9
125°	948.0	947.5	946.4	945.3	944.3	943.3	941.7	939.5	937.5	935.3	933.2
127.5°	1022.2	1021.4	1020.1	1018.8	1017.6	1016.3	1014.6	1012.5	1010.4	1008.3	1006.2
130°	1066.9	1065.9	1064.9	1063.7	1062.7	1061.7	1060.1	1058.0	1055.9	1053.8	1051.6
132.5°	1109.5	1108.5	1107.6	1106.8	1106.0	1105.2	1103.7	1101.5	1099.5	1097.3	1095.3
135°	1174.4	1173.6	1172.6	1171.6	1170.4	1169.4	1168.2	1166.6	1165.0	1163.4	1161.8
137.5°	1231.5	1230.3	1229.7	1229.1	1228.5	1228.0	1226.6	1224.6	1222.7	1220.7	1218.6
140°	1268.3	1267.2	1266.4	1265.6	1264.8	1264.0	1262.9	1261.3	1259.7	1258.1	1256.6
142.5°	1303.1	1302.3	1301.5	1300.7	1299.9	1299.1	1297.9	1296.3	1294.7	1293.2	1291.6
145°	1351.8	1351.3	1350.8	1350.2	1349.7	1349.2	1348.0	1346.2	1344.3	1342.4	1340.6
147.5°	1395.2	1394.6	1394.1	1393.6	1393.1	1392.5	1391.6	1390.4	1389.3	1388.1	1386.8
150°	1421.7	1421.2	1420.6	1420.1	1419.6	1419.0	1418.4	1417.6	1416.8	1416.0	1415.2
152.5°	1444.9	1443.9	1443.6	1443.3	1443.0	1442.6	1442.3	1441.9	1441.5	1441.2	1440.8
155°	1476.9	1475.6	1475.4	1475.1	1474.9	1474.6	1474.7	1475.3	1475.8	1476.3	1476.8
157.5°	1504.9	1503.3	1503.6	1503.9	1504.1	1504.4	1504.6	1504.6	1504.7	1504.8	1504.8
160°	1521.1	1519.5	1519.7	1520.0	1520.3	1520.5	1520.8	1521.1	1521.3	1521.5	1521.9
162.5°	1535.5	1533.7	1533.9	1534.2	1534.5	1534.7	1535.2	1535.9	1536.6	1537.2	1537.9
165°	1554.7	1552.6	1552.9	1553.2	1553.4	1553.7	1554.2	1555.0	1555.8	1556.6	1557.4
167.5°	1569.9	1567.8	1567.8	1567.8	1567.8	1567.8	1568.3	1569.4	1570.4	1571.5	1572.5
170°	1578.4	1576.3	1576.3	1576.3	1576.3	1576.3	1576.8	1577.9	1578.9	1580.0	1581.0
172.5°	1584.1	1582.0	1581.8	1581.6	1581.4	1581.1	1581.7	1582.9	1584.2	1585.5	1586.7
175°	1591.2	1589.4	1589.0	1588.8	1588.6	1588.2	1588.8	1590.1	1591.4	1592.8	1594.0
177.5°	1593.9	1592.2	1592.0	1591.7	1591.6	1591.3	1591.7	1592.8	1593.9	1594.9	1595.9
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1462.4	1467.9	1474.9	1485.3	1493.3	1500.3	1501.8	1503.8	1508.8	1517.2	1523.7
5°	1471.9	1486.2	1509.3	1531.7	1555.9	1575.9	1594.6	1607.7	1620.1	1646.2	1667.4
7.5°	1468.9	1500.8	1536.9	1577.2	1617.9	1657.3	1693.9	1726.6	1759.3	1797.4	1840.9
10°	1466.9	1504.3	1552.8	1604.5	1661.2	1716.6	1770.1	1811.9	1860.4	1904.0	1959.4
12.5°	1457.5	1511.2	1569.3	1635.4	1705.0	1768.9	1839.4	1897.0	1952.6	2015.5	2080.0
15°	1445.1	1510.5	1584.0	1671.7	1777.6	1854.8	1927.1	2027.3	2095.8	2164.2	2256.5
17.5°	1422.6	1502.4	1594.2	1708.3	1796.5	1900.3	2009.0	2088.2	2180.5	2277.0	2360.4
20°	1404.6	1497.5	1600.1	1712.2	1825.0	1937.6	2042.9	2137.5	2232.8	2344.2	2412.7
22.5°	1386.7	1478.5	1585.2	1704.3	1825.4	1944.1	2063.2	2174.4	2281.6	2394.1	2481.4
25°	1348.6	1457.6	1573.4	1694.8	1814.3	1945.1	2087.1	2211.0	2343.6	2459.4	2542.2
27.5°	1310.0	1409.8	1525.2	1648.4	1781.2	1935.8	2102.8	2243.6	2376.5	2459.4	2485.4
30°	1275.2	1381.0	1486.8	1612.0	1755.8	1928.3	2105.7	2267.0	2376.0	2412.0	2385.3
32.5°	1239.8	1335.7	1440.5	1568.7	1721.4	1909.9	2109.7	2253.0	2318.6	2291.1	2182.1
35°	1177.4	1263.9	1365.4	1493.7	1669.3	1899.7	2093.3	2190.4	2174.2	2018.6	1813.1
37.5°	1110.6	1181.1	1275.2	1409.3	1615.3	1859.2	2022.5	2036.9	1896.8	1657.8	1420.5
40°	1057.9	1121.3	1217.9	1358.0	1573.4	1819.3	1951.3	1893.4	1676.1	1410.2	1212.3
42.5°	1006.5	1060.1	1153.1	1304.2	1533.5	1765.1	1845.2	1719.1	1468.4	1217.0	1037.0
45°	919.6	970.0	1063.4	1218.5	1452.0	1661.2	1650.6	1431.4	1180.5	978.2	828.7
47.5°	837.2	881.3	968.9	1127.2	1356.2	1505.5	1406.5	1173.3	960.4	798.1	691.5
50°	778.9	822.5	909.7	1066.0	1279.5	1388.5	1247.1	1022.4	827.5	693.0	608.3
52.5°	723.1	765.7	845.4	997.7	1186.8	1252.0	1100.2	891.8	729.4	613.3	540.6
55°	645.1	677.4	749.0	894.7	1036.1	1051.0	897.2	722.9	589.0	508.1	458.3
57.5°	565.5	593.3	664.1	780.1	879.2	871.6	725.7	575.0	484.8	424.6	388.5
60°	513.7	541.1	603.3	703.0	777.7	751.5	617.7	496.2	419.1	374.9	346.2
62.5°	465.3	486.8	545.0	617.7	671.5	641.9	528.0	427.5	366.2	329.0	306.3
65°	395.4	412.8	459.5	497.5	527.4	498.8	404.1	334.4	290.2	264.0	248.4
67.5°	328.8	339.9	369.5	383.2	404.3	372.8	303.9	257.1	232.0	209.9	199.2
70°	287.0	295.1	310.7	321.9	327.5	295.1	244.1	209.8	188.6	173.1	166.3
72.5°	245.2	252.3	255.4	264.6	261.7	231.4	196.2	169.0	153.8	143.2	134.4
75°	187.4	190.5	187.4	183.7	175.5	154.4	130.2	116.5	105.2	100.2	97.1
77.5°	136.6	135.6	131.3	125.6	111.7	98.4	85.3	80.7	75.8	73.2	72.1
80°	105.2	102.7	99.0	89.7	77.8	68.5	65.4	62.3	60.4	57.3	56.6
82.5°	78.3	76.8	70.6	62.7	54.4	50.1	47.5	46.3	44.4	42.9	42.7
85°	41.7	39.8	33.0	28.7	27.4	26.1	25.5	25.5	23.1	22.4	22.4
87.5°	14.2	11.7	11.8	10.8	11.4	11.1	12.3	12.0	12.1	12.8	12.1
90°	3.8	6.4	9.1	11.7	14.7	18.1	21.5	25.0	28.4	29.5	30.5
92.5°	21.3	20.5	19.8	19.1	20.0	22.6	25.2	27.7	30.3	32.0	33.7
95°	61.5	50.7	39.8	29.1	25.1	28.0	30.9	33.8	36.7	38.6	40.4
97.5°	140.4	135.5	130.6	125.8	113.9	95.0	76.0	57.1	38.1	40.2	42.4
100°	205.4	210.6	215.9	221.2	203.3	162.2	121.2	80.2	39.1	41.2	43.3
102.5°	266.5	270.3	274.0	277.8	257.3	212.5	167.6	122.8	78.0	71.4	64.9
105°	355.8	358.7	361.6	364.5	354.1	330.4	306.7	283.0	259.4	212.8	166.2
107.5°	450.4	452.7	455.1	457.4	460.4	464.1	467.9	471.7	475.4	441.2	407.0
110°	513.7	515.8	517.9	520.1	522.5	525.5	528.3	531.2	534.1	525.5	516.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	574.2	576.1	578.0	579.8	582.3	585.1	588.0	590.9	593.8	594.0	594.1
115°	663.6	665.2	666.8	668.4	670.3	672.7	675.0	677.4	679.8	682.4	685.1
117.5°	750.9	752.8	754.8	756.8	758.4	759.5	760.7	761.9	763.2	765.2	767.4
120°	805.3	807.7	810.1	812.5	814.0	814.8	815.6	816.3	817.1	819.3	821.4
122.5°	859.8	861.8	863.7	865.7	867.2	868.2	869.2	870.1	871.2	872.7	874.1
125°	935.3	937.5	939.5	941.7	943.3	944.3	945.3	946.4	947.5	948.0	948.5
127.5°	1008.3	1010.4	1012.5	1014.6	1016.3	1017.6	1018.8	1020.1	1021.4	1022.2	1023.0
130°	1053.8	1055.9	1058.0	1060.1	1061.7	1062.7	1063.7	1064.9	1065.9	1066.9	1067.9
132.5°	1097.3	1099.5	1101.5	1103.7	1105.2	1106.0	1106.8	1107.6	1108.5	1109.5	1110.6
135°	1163.4	1165.0	1166.6	1168.2	1169.4	1170.4	1171.6	1172.6	1173.6	1174.4	1175.2
137.5°	1220.7	1222.7	1224.6	1226.6	1228.0	1228.5	1229.1	1229.7	1230.3	1231.5	1232.8
140°	1258.1	1259.7	1261.3	1262.9	1264.0	1264.8	1265.6	1266.4	1267.2	1268.3	1269.3
142.5°	1293.2	1294.7	1296.3	1297.9	1299.1	1299.9	1300.7	1301.5	1302.3	1303.1	1303.9
145°	1342.4	1344.3	1346.2	1348.0	1349.2	1349.7	1350.2	1350.8	1351.3	1351.8	1352.3
147.5°	1388.1	1389.3	1390.4	1391.6	1392.5	1393.1	1393.6	1394.1	1394.6	1395.2	1395.7
150°	1416.0	1416.8	1417.6	1418.4	1419.0	1419.6	1420.1	1420.6	1421.2	1421.7	1422.2
152.5°	1441.2	1441.5	1441.9	1442.3	1442.6	1443.0	1443.3	1443.6	1443.9	1444.9	1445.8
155°	1476.3	1475.8	1475.3	1474.7	1474.6	1474.9	1475.1	1475.4	1475.6	1476.9	1478.3
157.5°	1504.8	1504.7	1504.6	1504.6	1504.4	1504.1	1503.9	1503.6	1503.3	1504.9	1506.5
160°	1521.5	1521.3	1521.1	1520.8	1520.5	1520.3	1520.0	1519.7	1519.5	1521.1	1522.7
162.5°	1537.2	1536.6	1535.9	1535.2	1534.7	1534.5	1534.2	1533.9	1533.7	1535.5	1537.2
165°	1556.6	1555.8	1555.0	1554.2	1553.7	1553.4	1553.2	1552.9	1552.6	1554.7	1556.8
167.5°	1571.5	1570.4	1569.4	1568.3	1567.8	1567.8	1567.8	1567.8	1567.8	1569.9	1572.0
170°	1580.0	1578.9	1577.9	1576.8	1576.3	1576.3	1576.3	1576.3	1576.3	1578.4	1580.5
172.5°	1585.5	1584.2	1582.9	1581.7	1581.1	1581.4	1581.6	1581.8	1582.0	1584.1	1586.2
175°	1592.8	1591.4	1590.1	1588.8	1588.2	1588.6	1588.8	1589.0	1589.4	1591.2	1593.0
177.5°	1594.9	1593.9	1592.8	1591.7	1591.3	1591.6	1591.7	1592.0	1592.2	1593.9	1595.5
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1534.1	1534.1	1536.1	1543.6	1544.6	1551.1	1549.1
5°	1686.1	1697.9	1702.2	1720.9	1732.2	1737.2	1727.2
7.5°	1871.8	1905.3	1921.0	1940.6	1958.0	1963.2	1949.6
10°	2007.4	2042.2	2071.5	2089.5	2106.3	2117.6	2131.9
12.5°	2138.3	2181.2	2209.0	2234.5	2251.8	2266.0	2268.3
15°	2280.7	2345.4	2394.6	2430.7	2448.8	2458.1	2454.4
17.5°	2424.2	2484.3	2519.3	2556.1	2581.2	2582.4	2583.1
20°	2505.4	2564.0	2604.5	2631.9	2659.9	2658.6	2664.8
22.5°	2559.8	2605.8	2636.9	2656.7	2666.3	2661.7	2662.8
25°	2585.1	2598.8	2593.3	2561.5	2553.4	2524.1	2529.1
27.5°	2454.2	2389.4	2322.4	2236.3	2168.3	2113.9	2116.7
30°	2276.3	2161.8	2031.0	1921.4	1823.0	1795.6	1737.2
32.5°	2027.7	1855.9	1702.8	1600.7	1516.2	1493.3	1442.2
35°	1606.4	1439.6	1282.0	1187.3	1150.0	1097.7	1097.1
37.5°	1248.6	1101.7	1018.4	947.4	910.1	878.5	875.4
40°	1050.4	935.8	872.9	821.9	785.1	761.4	755.9
42.5°	911.9	819.3	760.3	728.7	700.4	688.2	679.1
45°	744.7	682.4	641.3	612.7	599.6	590.3	585.3
47.5°	622.9	581.1	553.2	534.1	523.5	513.7	516.3
50°	556.7	522.4	501.8	483.8	475.7	468.8	469.4
52.5°	503.4	472.6	456.0	442.9	432.8	428.0	425.6
55°	427.1	407.8	391.0	381.7	376.0	369.2	367.3
57.5°	364.3	349.4	335.7	325.1	323.8	317.2	318.1
60°	322.5	310.1	298.9	293.3	288.9	283.3	285.2
62.5°	288.1	277.7	267.5	262.8	258.5	254.4	255.2
65°	236.0	226.0	219.8	217.3	215.4	213.6	211.7
67.5°	188.1	182.0	178.1	172.7	168.9	168.3	166.4
70°	158.1	150.0	143.2	136.3	134.5	133.9	134.5
72.5°	126.7	121.7	119.8	116.5	116.1	114.5	115.6
75°	95.3	93.4	92.1	89.7	89.7	89.7	89.7
77.5°	70.3	69.1	68.4	67.9	67.3	66.4	66.2
80°	54.8	54.2	52.9	52.9	52.3	52.9	52.3
82.5°	41.4	41.2	40.0	40.0	39.4	39.0	39.4
85°	21.2	20.5	21.8	20.5	21.2	20.0	21.2
87.5°	12.3	12.5	12.2	12.3	11.9	13.0	12.1
90°	31.6	32.6	33.4	34.0	34.5	35.0	35.5
92.5°	35.4	37.1	38.0	38.3	38.7	39.0	39.3
95°	42.2	44.0	45.0	45.0	45.0	45.0	45.0
97.5°	44.4	46.6	47.8	48.0	48.2	48.6	48.8
100°	45.4	47.5	48.7	49.0	49.2	49.5	49.7
102.5°	58.4	51.8	48.8	49.3	49.7	50.2	50.7
105°	119.6	73.0	50.0	50.5	51.1	51.6	52.1
107.5°	372.9	338.7	304.1	269.0	233.9	198.8	163.7
110°	508.0	499.4	476.2	438.6	400.9	363.3	325.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	594.3	594.5	590.6	582.6	574.6	566.7	558.7
115°	687.7	690.3	692.1	693.2	694.3	695.3	696.4
117.5°	769.4	771.6	772.8	772.9	773.2	773.4	773.6
120°	823.5	825.6	826.6	826.6	826.6	826.6	826.6
122.5°	875.6	877.1	877.9	878.1	878.3	878.5	878.8
125°	949.0	949.5	950.1	950.6	951.1	951.6	952.2
127.5°	1023.9	1024.7	1024.8	1024.4	1023.8	1023.3	1022.8
130°	1069.1	1070.1	1070.3	1069.8	1069.3	1068.7	1068.3
132.5°	1111.7	1112.7	1112.9	1112.1	1111.4	1110.6	1109.9
135°	1176.0	1176.8	1176.8	1176.0	1175.2	1174.4	1173.6
137.5°	1234.1	1235.3	1235.6	1235.2	1234.6	1234.1	1233.6
140°	1270.3	1271.4	1271.7	1271.1	1270.7	1270.1	1269.6
142.5°	1304.8	1305.6	1305.7	1305.0	1304.2	1303.5	1302.7
145°	1352.9	1353.4	1353.7	1353.7	1353.7	1353.7	1353.7
147.5°	1396.2	1396.8	1396.4	1395.2	1394.0	1392.7	1391.5
150°	1422.8	1423.2	1423.2	1422.4	1421.6	1420.8	1420.0
152.5°	1446.8	1447.7	1447.6	1446.4	1445.1	1443.9	1442.7
155°	1479.6	1480.9	1480.7	1479.2	1477.6	1476.0	1474.5
157.5°	1508.1	1509.7	1509.4	1507.4	1505.3	1503.2	1501.2
160°	1524.2	1525.7	1525.7	1523.8	1521.9	1520.1	1518.3
162.5°	1539.1	1540.8	1540.9	1539.3	1537.6	1536.0	1534.4
165°	1558.9	1561.1	1561.2	1559.3	1557.5	1555.6	1553.8
167.5°	1574.1	1576.2	1576.2	1574.1	1572.0	1569.9	1567.8
170°	1582.6	1584.8	1584.8	1582.6	1580.5	1578.4	1576.3
172.5°	1588.3	1590.4	1590.3	1588.0	1585.7	1583.3	1581.0
175°	1594.8	1596.7	1596.6	1594.4	1592.4	1590.2	1588.2
177.5°	1597.2	1598.9	1598.7	1596.6	1594.5	1592.4	1590.3
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0

(END OF REPORT)