

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: P332853-927

Luminaire Tested: **S124DIW-S1195D1340U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332853-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1340U927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8466.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

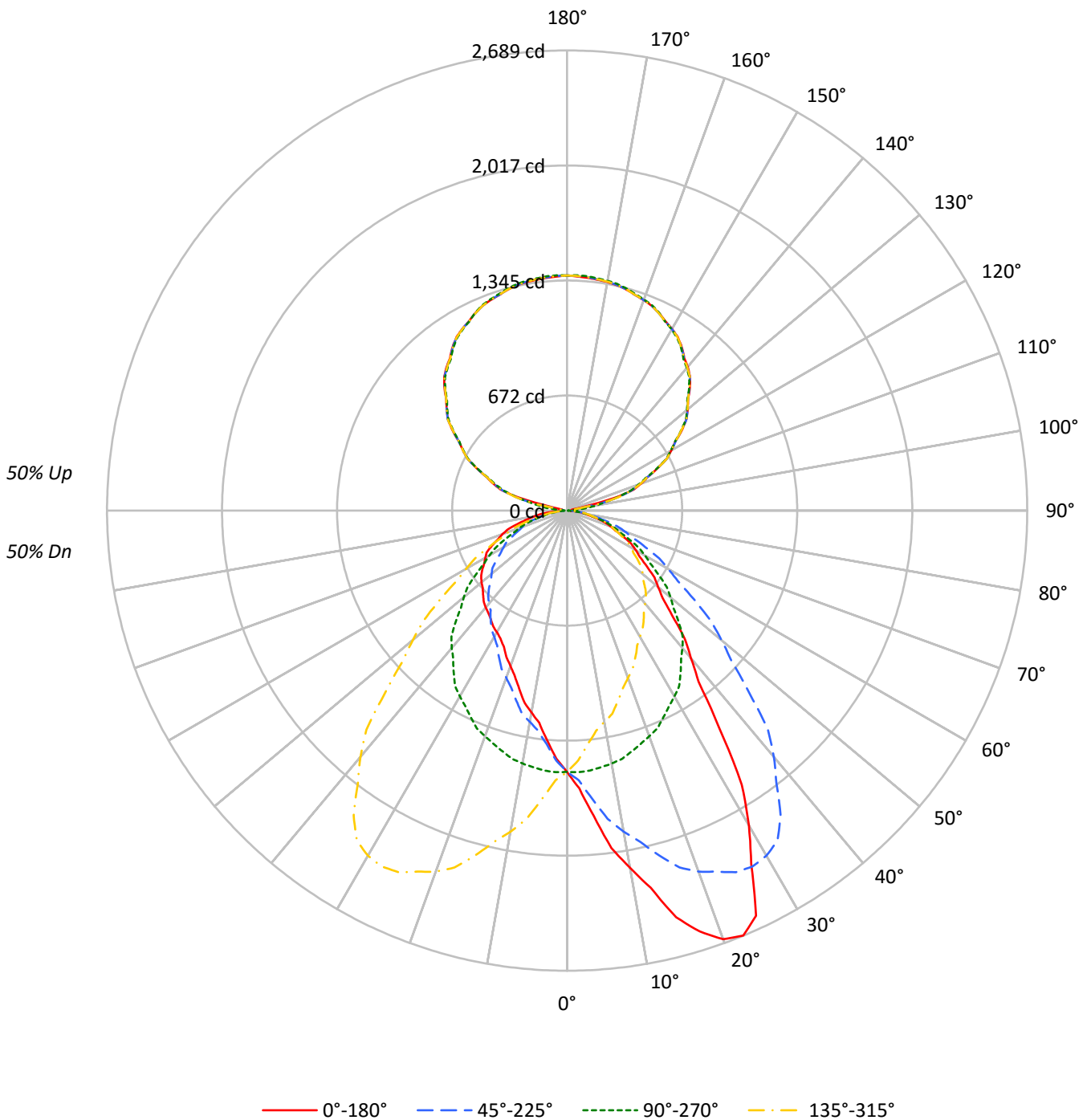
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	23	19	22	19	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12327	12327	12327	12327
5°	14515	12358	10907	12358
10°	17379	12304	9820	12304
15°	20563	12179	9018	12179
20°	22898	12052	8303	12052
25°	23267	11866	7808	11866
30°	19799	11686	7652	11686
35°	15221	11395	7655	11395
40°	11864	11052	7798	11052
45°	9893	10535	7929	10535
50°	8706	9905	8199	9905
55°	7976	9151	8528	9151
60°	7476	8477	8925	8477
65°	6959	7721	9255	7721
70°	6359	6973	9465	6973
75°	5680	6135	9351	6135
80°	4761	5026	9056	5026
85°	3511	3631	8670	3631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	1.8
10°-20°	458.5	5.4
20°-30°	727.0	8.6
30°-40°	809.1	9.6
40°-50°	736.5	8.7
50°-60°	601.9	7.1
60°-70°	429.7	5.1
70°-80°	236.6	2.8
80°-90°	68.6	0.8
90°-100°	47.0	0.6
100°-110°	299.6	3.5
110°-120°	573.1	6.8
120°-130°	727.5	8.6
130°-140°	778.4	9.2
140°-150°	727.9	8.6
150°-160°	587.0	6.9
160°-170°	378.6	4.5
170°-180°	130.5	1.5
0°-30°	1334.3	15.8
0°-40°	2143.4	25.3
0°-60°	3481.7	41.1
0°-90°	4216.5	49.8
90°-120°	919.7	10.9
90°-150°	3153.4	37.2
90°-180°	4250.0	50.2
0°-180°	8466.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1527	1527	1527	1527	1527	
5°	1791	1525	1346	1525	1791	182
15°	2460	1457	1079	1457	2460	695
25°	2612	1332	877	1332	2612	1152
35°	1544	1156	777	1156	1544	980
45°	866	923	694	923	866	683
55°	567	650	606	650	567	512
65°	364	404	484	404	364	361
75°	182	197	300	197	182	194
85°	38	39	94	39	38	47
90°	31	3	31	3	31	15
95°	30	56	30	56	30	24
105°	293	309	293	309	293	255
115°	582	577	582	577	582	576
125°	818	812	818	812	818	728
135°	1014	1007	1014	1007	1014	781
145°	1167	1161	1167	1161	1167	729
155°	1272	1273	1272	1273	1272	587
165°	1337	1343	1337	1343	1337	378
175°	1366	1374	1366	1374	1366	130
180°	1374	1374	1374	1374	1374	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1625.0	1624.4	1619.5	1618.4	1614.9	1610.3	1609.3	1601.2	1585.0	1577.4	1575.4
5°	1791.2	1803.9	1787.4	1784.2	1782.3	1761.5	1750.7	1738.0	1709.0	1691.9	1678.6
7.5°	1989.6	1991.1	1983.9	1978.1	1962.0	1943.8	1916.4	1887.4	1852.7	1816.6	1789.5
10°	2120.1	2125.2	2116.9	2115.7	2083.4	2063.2	2022.7	1988.5	1949.3	1905.7	1865.8
12.5°	2257.7	2250.7	2246.5	2219.4	2213.4	2176.5	2129.5	2094.3	2033.8	1983.6	1930.6
15°	2460.4	2446.5	2437.6	2400.3	2381.9	2330.7	2280.8	2242.2	2163.1	2087.9	2030.9
17.5°	2579.3	2593.2	2572.7	2557.4	2510.0	2474.1	2423.0	2342.0	2280.1	2186.7	2114.8
20°	2665.3	2666.6	2655.2	2639.4	2602.1	2556.5	2500.8	2412.3	2338.3	2245.4	2146.7
22.5°	2688.6	2688.8	2684.0	2669.3	2641.0	2604.1	2547.9	2474.1	2384.4	2283.3	2184.6
25°	2612.1	2609.6	2615.3	2631.8	2621.0	2609.6	2577.4	2522.4	2438.9	2331.9	2225.7
27.5°	2328.3	2345.7	2377.9	2418.4	2457.3	2487.1	2495.5	2484.1	2432.4	2344.5	2233.2
30°	2123.9	2145.4	2169.5	2209.9	2288.4	2333.2	2382.6	2419.9	2399.0	2328.9	2225.1
32.5°	1899.3	1904.6	1940.2	1986.2	2058.1	2144.5	2222.7	2298.4	2323.6	2286.8	2200.3
35°	1544.5	1553.4	1592.0	1637.5	1725.5	1831.1	1948.7	2053.7	2140.3	2175.1	2130.8
37.5°	1260.4	1285.9	1313.0	1362.0	1439.4	1534.5	1656.8	1792.6	1921.8	2008.3	2022.9
40°	1125.8	1141.6	1161.3	1198.6	1264.3	1358.0	1462.9	1618.5	1755.8	1879.8	1920.2
42.5°	1019.5	1028.8	1040.8	1074.6	1124.7	1217.8	1313.7	1450.6	1588.3	1736.5	1804.4
45°	866.5	876.0	896.2	915.8	953.8	1018.3	1107.5	1220.0	1358.6	1501.5	1626.7
47.5°	756.0	762.0	774.0	795.0	827.3	869.8	942.4	1036.4	1164.8	1303.5	1437.0
50°	693.2	698.2	707.7	726.7	751.4	789.3	848.8	936.7	1037.3	1177.0	1308.0
52.5°	643.6	645.6	652.6	665.5	685.1	717.0	765.8	838.5	932.0	1056.6	1187.1
55°	566.7	569.3	575.6	585.0	602.1	622.3	659.7	714.1	795.7	903.8	1017.0
57.5°	503.4	505.3	510.6	514.2	528.2	544.7	573.4	612.3	674.1	765.8	866.9
60°	463.0	461.7	468.0	471.2	480.7	494.6	516.7	554.1	607.8	681.8	774.8
62.5°	423.5	421.8	427.1	431.3	436.7	448.5	466.7	495.9	539.5	606.4	686.7
65°	364.3	361.8	365.0	370.0	375.1	381.4	394.7	420.6	455.4	503.4	564.8
67.5°	304.8	307.5	308.0	310.5	313.5	322.1	331.1	349.5	374.1	412.5	464.5
70°	269.4	270.1	272.6	272.6	274.5	282.1	289.7	300.4	324.5	359.9	402.3
72.5°	234.0	236.7	235.7	237.7	239.1	244.2	249.7	259.9	280.4	306.7	342.5
75°	182.1	184.0	184.0	184.7	186.6	188.5	192.9	200.5	215.1	234.6	259.3
77.5°	132.8	133.1	134.0	136.3	136.3	139.3	142.6	148.6	155.8	169.3	184.3
80°	102.4	103.7	103.1	104.3	104.3	106.9	108.1	115.7	118.9	127.8	139.7
82.5°	75.2	76.4	76.3	78.0	79.1	79.5	81.4	84.4	87.5	95.4	100.3
85°	37.9	39.2	37.9	39.2	41.1	41.7	43.6	44.3	46.8	48.7	53.2
87.5°	17.3	18.7	18.6	19.0	20.0	20.3	20.5	19.7	21.5	21.7	23.4
90°	30.8	30.3	29.9	29.5	29.0	28.1	26.7	25.3	24.0	22.6	20.8
92.5°	28.4	28.3	28.2	28.1	28.0	27.3	25.9	24.6	23.1	21.8	20.0
95°	29.8	29.5	29.3	29.1	28.9	28.1	26.7	25.3	24.0	22.6	22.3
97.5°	28.8	28.5	28.3	28.1	27.9	27.6	27.6	27.4	27.3	27.1	52.6
100°	28.8	28.5	28.3	28.1	27.9	29.7	33.6	37.5	41.4	45.2	76.7
102.5°	29.6	29.5	29.5	29.5	29.4	50.3	92.2	134.1	175.9	217.9	222.0
105°	292.9	301.0	309.3	317.5	325.7	328.8	326.8	324.7	322.7	320.6	319.4
107.5°	408.1	407.3	406.4	405.5	404.6	403.7	402.7	401.7	400.7	399.7	398.2
110°	458.3	457.6	456.9	456.2	455.5	455.0	454.5	454.1	453.6	453.1	451.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	508.4	507.6	506.7	505.8	504.9	504.5	504.6	504.7	504.9	504.9	504.3
115°	581.5	581.5	581.5	581.5	581.5	581.3	580.9	580.4	580.0	579.5	579.7
117.5°	655.9	656.1	656.2	656.2	656.3	656.4	656.5	656.6	656.7	656.8	656.2
120°	702.8	703.3	703.7	704.2	704.6	704.6	704.2	703.7	703.3	702.8	703.1
122.5°	748.8	749.3	749.7	750.2	750.7	750.8	750.5	750.2	750.0	749.6	749.3
125°	817.9	817.7	817.5	817.2	817.0	816.5	815.9	815.2	814.4	813.8	814.2
127.5°	878.5	878.7	878.8	879.1	879.2	879.4	879.6	879.7	879.8	880.0	878.9
130°	919.6	919.6	919.6	919.6	919.6	919.5	919.2	919.0	918.9	918.6	917.9
132.5°	957.4	957.6	957.8	958.0	958.1	958.1	957.9	957.7	957.4	957.2	956.3
135°	1014.2	1013.7	1013.2	1012.8	1012.3	1011.9	1011.4	1011.0	1010.5	1010.0	1009.2
137.5°	1062.6	1062.8	1063.0	1063.0	1063.2	1063.0	1062.5	1062.0	1061.5	1061.0	1060.0
140°	1096.4	1096.1	1095.9	1095.7	1095.4	1095.0	1094.3	1093.6	1092.9	1092.3	1091.8
142.5°	1124.3	1124.3	1124.2	1124.2	1124.1	1123.9	1123.3	1122.8	1122.4	1121.8	1121.6
145°	1167.3	1166.8	1166.3	1165.9	1165.5	1165.1	1164.8	1164.6	1164.4	1164.2	1164.2
147.5°	1202.8	1202.5	1202.4	1202.1	1201.9	1201.7	1201.5	1201.3	1201.1	1200.9	1201.2
150°	1225.8	1225.6	1225.3	1225.1	1224.9	1224.8	1224.8	1224.8	1224.8	1224.8	1225.0
152.5°	1245.5	1245.7	1245.8	1245.9	1246.1	1245.9	1245.6	1245.2	1244.9	1244.5	1244.9
155°	1272.1	1272.7	1273.4	1274.1	1274.8	1274.7	1273.7	1272.9	1271.9	1271.1	1271.7
157.5°	1294.3	1295.5	1296.6	1297.8	1299.0	1299.0	1297.8	1296.6	1295.5	1294.3	1295.1
160°	1309.1	1310.4	1311.8	1313.1	1314.5	1314.5	1313.1	1311.8	1310.4	1309.1	1309.2
162.5°	1320.6	1322.1	1323.7	1325.2	1326.7	1326.8	1325.5	1324.1	1322.7	1321.4	1321.6
165°	1336.8	1338.9	1340.9	1343.0	1345.0	1345.1	1343.3	1341.5	1339.7	1337.8	1337.8
167.5°	1348.9	1351.2	1353.4	1355.7	1358.0	1358.2	1356.1	1354.2	1352.2	1350.1	1350.3
170°	1356.3	1358.6	1360.9	1363.2	1365.4	1365.6	1363.8	1362.0	1360.2	1358.4	1358.1
172.5°	1360.4	1362.9	1365.3	1367.8	1370.3	1370.6	1368.8	1366.9	1365.1	1363.3	1363.0
175°	1365.6	1368.3	1371.0	1373.8	1376.5	1376.9	1374.8	1372.8	1370.7	1368.7	1368.4
177.5°	1368.8	1371.0	1373.2	1375.4	1377.6	1378.0	1376.5	1375.1	1373.6	1372.1	1371.7
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1575.9	1568.8	1563.8	1559.7	1548.6	1542.0	1536.9	1529.9	1521.8	1513.1	1502.5
5°	1665.3	1643.9	1628.0	1604.0	1581.2	1562.3	1542.6	1525.0	1503.4	1480.0	1462.9
7.5°	1759.4	1727.4	1686.3	1650.8	1610.8	1576.0	1544.9	1513.1	1479.9	1447.8	1418.3
10°	1819.0	1777.9	1732.3	1678.6	1628.0	1583.1	1541.3	1500.9	1461.7	1422.4	1388.9
12.5°	1883.3	1832.1	1764.7	1701.9	1645.2	1585.2	1534.8	1485.2	1437.9	1396.7	1357.6
15°	1969.6	1895.5	1817.7	1733.6	1659.0	1588.8	1519.9	1457.2	1404.1	1349.7	1311.8
17.5°	2022.6	1931.0	1842.1	1754.1	1663.8	1575.3	1500.9	1428.7	1362.2	1308.1	1260.3
20°	2057.5	1966.4	1855.7	1767.8	1660.3	1569.2	1483.2	1402.9	1333.3	1275.7	1226.4
22.5°	2087.9	1982.6	1871.9	1756.2	1649.2	1552.5	1458.4	1377.5	1306.5	1245.9	1198.6
25°	2104.3	1983.5	1863.3	1748.2	1626.7	1512.3	1426.9	1332.1	1256.1	1192.2	1141.6
27.5°	2106.1	1976.9	1841.0	1713.0	1587.7	1481.1	1373.2	1288.5	1209.7	1142.2	1093.6
30°	2100.5	1965.8	1819.6	1681.2	1555.3	1439.6	1345.9	1253.6	1173.3	1106.2	1055.6
32.5°	2082.8	1942.5	1792.3	1645.8	1515.3	1402.1	1305.4	1217.7	1139.4	1073.3	1020.2
35°	2031.6	1893.0	1733.0	1580.6	1447.2	1332.7	1245.4	1156.2	1077.8	1015.2	963.9
37.5°	1951.5	1826.2	1663.6	1505.9	1374.8	1259.8	1173.3	1092.7	1022.0	958.4	905.9
40°	1881.7	1771.6	1608.4	1454.7	1313.0	1203.6	1122.7	1048.7	978.4	918.4	868.4
42.5°	1801.2	1705.3	1554.8	1391.9	1255.4	1145.4	1066.5	1000.1	933.9	878.4	828.5
45°	1657.7	1594.5	1452.9	1302.3	1160.0	1056.2	981.0	922.8	867.1	812.8	771.0
47.5°	1492.8	1461.4	1342.1	1199.2	1064.1	961.9	896.6	842.9	794.0	748.0	711.1
50°	1382.0	1366.8	1263.7	1125.8	996.8	900.6	834.9	788.7	746.9	706.5	671.7
52.5°	1272.7	1272.2	1179.2	1053.0	933.6	841.0	775.7	732.5	696.4	663.5	632.2
55°	1105.6	1123.3	1050.6	937.9	831.1	747.6	688.8	650.2	624.9	597.7	574.3
57.5°	952.1	981.5	921.5	822.4	733.2	656.2	605.1	576.1	549.1	532.7	515.6
60°	852.0	879.8	833.0	749.5	665.4	599.6	550.9	525.0	501.5	490.2	478.2
62.5°	762.9	787.7	753.0	675.7	602.6	539.4	498.3	473.3	457.6	445.1	437.2
65°	635.6	656.6	626.8	570.5	507.9	457.3	423.7	404.2	389.0	383.9	375.1
67.5°	513.8	532.8	516.7	468.9	418.7	380.4	354.2	335.3	326.4	321.9	315.6
70°	441.5	460.4	443.4	401.6	363.1	330.8	306.1	295.4	285.9	284.0	275.1
72.5°	380.2	393.2	376.0	343.4	310.5	283.2	264.1	252.9	248.0	244.5	239.7
75°	285.3	296.7	285.3	259.9	236.5	217.6	201.1	196.7	191.0	189.1	185.9
77.5°	201.9	211.8	203.0	187.2	169.8	155.1	146.2	140.5	139.3	136.0	137.5
80°	154.3	160.7	152.4	141.6	127.8	117.6	111.3	108.1	104.3	103.1	105.6
82.5°	110.8	113.6	109.4	102.2	91.8	85.2	81.0	77.3	76.5	76.8	76.8
85°	57.6	57.0	56.3	50.0	46.8	42.4	39.8	39.2	38.6	39.8	41.1
87.5°	23.1	23.1	22.3	19.8	17.8	15.8	14.8	13.8	14.8	15.8	16.8
90°	18.9	17.1	15.3	13.2	10.6	8.1	5.6	3.1	5.6	8.1	10.6
92.5°	18.1	16.3	14.5	13.5	13.4	13.2	13.1	12.9	13.1	13.2	13.4
95°	22.2	21.9	21.7	25.4	33.2	41.0	48.7	56.5	48.7	41.0	33.2
97.5°	78.1	103.5	129.0	139.3	134.5	129.7	124.8	120.0	124.8	129.7	134.5
100°	108.2	139.7	171.3	185.0	180.9	176.7	172.6	168.5	172.6	176.7	180.9
102.5°	226.1	230.1	234.2	234.8	231.8	228.8	225.8	222.8	225.8	228.8	231.8
105°	318.3	317.2	316.0	314.7	313.4	312.0	310.6	309.3	310.6	312.0	313.4
107.5°	396.6	395.1	393.5	392.4	391.7	391.0	390.3	389.6	390.3	391.0	391.7
110°	450.4	449.0	447.7	446.6	445.9	445.3	444.6	443.9	444.6	445.3	445.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	503.7	503.0	502.3	501.5	500.2	499.0	497.7	496.5	497.7	499.0	500.2
115°	580.0	580.2	580.4	580.2	579.5	578.8	578.1	577.4	578.1	578.8	579.5
117.5°	655.8	655.3	654.7	654.0	653.2	652.2	651.3	650.4	651.3	652.2	653.2
120°	703.3	703.5	703.7	703.4	702.5	701.6	700.6	699.7	700.6	701.6	702.5
122.5°	749.0	748.7	748.4	748.0	747.4	746.9	746.3	745.8	746.3	746.9	747.4
125°	814.7	815.2	815.6	815.4	814.4	813.6	812.6	811.7	812.6	813.6	814.4
127.5°	877.8	876.8	875.8	875.1	874.9	874.6	874.4	874.2	874.4	874.6	874.9
130°	917.2	916.6	915.8	915.4	915.1	915.0	914.7	914.5	914.7	915.0	915.1
132.5°	955.5	954.7	953.8	953.1	952.7	952.3	951.9	951.5	951.9	952.3	952.7
135°	1008.2	1007.3	1006.4	1006.1	1006.3	1006.5	1006.7	1006.9	1006.7	1006.5	1006.3
137.5°	1059.0	1058.0	1057.0	1056.5	1056.4	1056.2	1056.1	1056.1	1056.1	1056.2	1056.4
140°	1091.3	1090.8	1090.4	1090.0	1089.5	1089.0	1088.6	1088.1	1088.6	1089.0	1089.5
142.5°	1121.3	1121.0	1120.7	1120.2	1119.4	1118.6	1117.7	1116.9	1117.7	1118.6	1119.4
145°	1164.2	1164.2	1164.2	1163.8	1163.2	1162.4	1161.7	1161.1	1161.7	1162.4	1163.2
147.5°	1201.4	1201.7	1201.9	1201.3	1200.1	1198.8	1197.5	1196.2	1197.5	1198.8	1200.1
150°	1225.3	1225.5	1225.7	1225.3	1224.5	1223.5	1222.7	1221.7	1222.7	1223.5	1224.5
152.5°	1245.3	1245.8	1246.2	1246.0	1245.2	1244.5	1243.8	1243.1	1243.8	1244.5	1245.2
155°	1272.4	1273.1	1273.7	1274.0	1273.7	1273.5	1273.3	1273.1	1273.3	1273.5	1273.7
157.5°	1295.8	1296.6	1297.4	1297.8	1297.9	1298.1	1298.2	1298.4	1298.2	1298.1	1297.9
160°	1309.5	1309.7	1310.0	1310.4	1311.1	1311.8	1312.5	1313.1	1312.5	1311.8	1311.1
162.5°	1321.8	1322.1	1322.3	1322.9	1323.7	1324.6	1325.4	1326.3	1325.4	1324.6	1323.7
165°	1337.8	1337.8	1337.8	1338.4	1339.5	1340.7	1341.8	1343.0	1341.8	1340.7	1339.5
167.5°	1350.4	1350.6	1350.7	1351.4	1352.6	1353.8	1354.9	1356.1	1354.9	1353.8	1352.6
170°	1357.9	1357.6	1357.5	1358.0	1359.4	1360.7	1362.2	1363.5	1362.2	1360.7	1359.4
172.5°	1362.9	1362.6	1362.4	1362.9	1364.3	1365.7	1367.1	1368.4	1367.1	1365.7	1364.3
175°	1368.2	1367.9	1367.7	1368.3	1369.7	1371.0	1372.4	1373.8	1372.4	1371.0	1369.7
177.5°	1371.4	1371.0	1370.6	1371.1	1372.4	1373.6	1375.0	1376.3	1375.0	1373.6	1372.4
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1497.5	1492.9	1486.4	1477.3	1469.7	1461.6	1459.5	1456.5	1462.5	1457.5	1456.0
5°	1448.4	1435.1	1418.0	1398.4	1387.0	1370.6	1367.5	1361.1	1354.8	1354.2	1347.8
7.5°	1396.4	1376.9	1354.6	1334.5	1316.1	1298.1	1286.3	1283.8	1274.5	1269.0	1262.7
10°	1363.0	1338.9	1313.0	1294.1	1272.6	1253.6	1240.3	1232.7	1226.4	1219.4	1213.1
12.5°	1323.6	1298.0	1276.6	1256.1	1230.6	1216.2	1194.3	1181.1	1179.9	1180.0	1163.6
15°	1277.6	1252.4	1219.4	1190.3	1176.4	1148.6	1136.5	1121.4	1111.9	1102.4	1094.9
17.5°	1225.1	1193.7	1167.9	1134.6	1108.0	1085.8	1070.1	1061.0	1046.6	1033.2	1023.5
20°	1192.2	1158.7	1131.6	1096.1	1067.0	1039.8	1026.5	1013.9	1003.1	991.7	981.0
22.5°	1158.8	1123.8	1090.5	1056.1	1029.0	1000.4	987.5	970.3	960.1	953.8	943.0
25°	1106.2	1068.3	1030.3	997.4	969.6	944.3	927.2	913.9	902.5	897.5	890.6
27.5°	1049.0	1011.4	974.7	937.3	905.7	887.4	873.7	863.7	857.1	850.4	847.3
30°	1012.6	973.4	934.2	899.4	870.3	852.0	839.3	832.3	827.3	824.1	820.9
32.5°	975.7	937.0	895.7	864.0	837.9	821.6	812.0	805.0	802.5	801.4	800.3
35°	916.5	877.3	839.3	810.9	786.2	779.8	771.7	767.9	766.6	771.0	772.9
37.5°	859.2	822.8	787.8	760.3	744.1	734.8	732.1	732.1	736.7	740.6	745.2
40°	822.2	786.8	753.9	729.9	714.7	709.0	707.7	710.9	716.0	720.4	725.5
42.5°	786.3	751.4	721.5	699.0	688.4	683.2	684.0	687.1	694.2	699.7	707.3
45°	730.6	701.4	672.3	654.0	645.2	646.4	646.4	652.1	659.0	667.3	675.5
47.5°	678.0	648.7	624.8	609.3	604.8	603.6	607.2	614.7	624.6	634.8	646.3
50°	642.6	614.8	593.9	580.0	575.0	576.9	581.9	588.8	600.9	613.5	625.5
52.5°	606.7	581.4	562.1	549.1	545.6	549.0	554.1	565.1	575.6	589.2	603.8
55°	550.9	529.4	514.2	504.7	503.4	505.3	511.0	523.1	538.2	555.3	569.3
57.5°	495.4	477.4	463.5	456.9	457.6	459.3	468.7	483.0	499.2	517.4	535.4
60°	457.9	441.5	430.1	425.0	425.6	429.4	440.8	454.2	474.4	492.1	511.0
62.5°	422.5	408.1	397.2	392.7	391.7	400.1	411.0	424.8	445.0	464.8	485.2
65°	365.6	354.2	345.3	342.8	344.7	351.0	365.0	383.3	400.4	421.2	442.8
67.5°	309.9	300.6	294.5	295.6	297.9	307.3	318.9	334.7	354.1	375.7	397.0
70°	274.5	265.6	260.5	261.2	265.0	276.4	286.5	302.3	323.2	345.3	363.1
72.5°	238.1	232.3	227.7	230.4	234.2	242.0	254.6	270.5	288.8	309.4	328.1
75°	182.8	182.8	180.2	182.1	187.8	195.4	204.9	221.3	239.7	256.2	271.3
77.5°	135.6	134.2	135.9	138.2	141.4	150.4	161.3	173.0	186.9	203.3	215.8
80°	103.7	104.3	107.5	111.3	112.6	119.5	130.9	141.6	152.4	166.4	178.4
82.5°	78.0	78.6	80.2	85.0	86.3	93.7	101.1	111.9	121.6	130.9	140.9
85°	42.4	42.4	45.6	47.5	50.6	55.7	60.0	66.4	75.3	81.6	91.1
87.5°	18.9	19.3	21.6	23.1	24.9	27.8	29.1	34.9	37.2	40.0	44.8
90°	13.2	15.3	17.1	18.9	20.8	22.6	24.0	25.3	26.7	28.1	29.0
92.5°	13.5	14.5	16.3	18.1	20.0	21.8	23.1	24.6	25.9	27.3	28.0
95°	25.4	21.7	21.9	22.2	22.3	22.6	24.0	25.3	26.7	28.1	28.9
97.5°	139.3	129.0	103.5	78.1	52.6	27.1	27.3	27.4	27.6	27.6	27.9
100°	185.0	171.3	139.7	108.2	76.7	45.2	41.4	37.5	33.6	29.7	27.9
102.5°	234.8	234.2	230.1	226.1	222.0	217.9	175.9	134.1	92.2	50.3	29.4
105°	314.7	316.0	317.2	318.3	319.4	320.6	322.7	324.7	326.8	328.8	325.7
107.5°	392.4	393.5	395.1	396.6	398.2	399.7	400.7	401.7	402.7	403.7	404.6
110°	446.6	447.7	449.0	450.4	451.8	453.1	453.6	454.1	454.5	455.0	455.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	501.5	502.3	503.0	503.7	504.3	504.9	504.9	504.7	504.6	504.5	504.9
115°	580.2	580.4	580.2	580.0	579.7	579.5	580.0	580.4	580.9	581.3	581.5
117.5°	654.0	654.7	655.3	655.8	656.2	656.8	656.7	656.6	656.5	656.4	656.3
120°	703.4	703.7	703.5	703.3	703.1	702.8	703.3	703.7	704.2	704.6	704.6
122.5°	748.0	748.4	748.7	749.0	749.3	749.6	750.0	750.2	750.5	750.8	750.7
125°	815.4	815.6	815.2	814.7	814.2	813.8	814.4	815.2	815.9	816.5	817.0
127.5°	875.1	875.8	876.8	877.8	878.9	880.0	879.8	879.7	879.6	879.4	879.2
130°	915.4	915.8	916.6	917.2	917.9	918.6	918.9	919.0	919.2	919.5	919.6
132.5°	953.1	953.8	954.7	955.5	956.3	957.2	957.4	957.7	957.9	958.1	958.1
135°	1006.1	1006.4	1007.3	1008.2	1009.2	1010.0	1010.5	1011.0	1011.4	1011.9	1012.3
137.5°	1056.5	1057.0	1058.0	1059.0	1060.0	1061.0	1061.5	1062.0	1062.5	1063.0	1063.2
140°	1090.0	1090.4	1090.8	1091.3	1091.8	1092.3	1092.9	1093.6	1094.3	1095.0	1095.4
142.5°	1120.2	1120.7	1121.0	1121.3	1121.6	1121.8	1122.4	1122.8	1123.3	1123.9	1124.1
145°	1163.8	1164.2	1164.2	1164.2	1164.2	1164.2	1164.4	1164.6	1164.8	1165.1	1165.5
147.5°	1201.3	1201.9	1201.7	1201.4	1201.2	1200.9	1201.1	1201.3	1201.5	1201.7	1201.9
150°	1225.3	1225.7	1225.5	1225.3	1225.0	1224.8	1224.8	1224.8	1224.8	1224.8	1224.9
152.5°	1246.0	1246.2	1245.8	1245.3	1244.9	1244.5	1244.9	1245.2	1245.6	1245.9	1246.1
155°	1274.0	1273.7	1273.1	1272.4	1271.7	1271.1	1271.9	1272.9	1273.7	1274.7	1274.8
157.5°	1297.8	1297.4	1296.6	1295.8	1295.1	1294.3	1295.5	1296.6	1297.8	1299.0	1299.0
160°	1310.4	1310.0	1309.7	1309.5	1309.2	1309.1	1310.4	1311.8	1313.1	1314.5	1314.5
162.5°	1322.9	1322.3	1322.1	1321.8	1321.6	1321.4	1322.7	1324.1	1325.5	1326.8	1326.7
165°	1338.4	1337.8	1337.8	1337.8	1337.8	1337.8	1339.7	1341.5	1343.3	1345.1	1345.0
167.5°	1351.4	1350.7	1350.6	1350.4	1350.3	1350.1	1352.2	1354.2	1356.1	1358.2	1358.0
170°	1358.0	1357.5	1357.6	1357.9	1358.1	1358.4	1360.2	1362.0	1363.8	1365.6	1365.4
172.5°	1362.9	1362.4	1362.6	1362.9	1363.0	1363.3	1365.1	1366.9	1368.8	1370.6	1370.3
175°	1368.3	1367.7	1367.9	1368.2	1368.4	1368.7	1370.7	1372.8	1374.8	1376.9	1376.5
177.5°	1371.1	1370.6	1371.0	1371.4	1371.7	1372.1	1373.6	1375.1	1376.5	1378.0	1377.6
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1455.0	1454.0	1450.4	1449.9	1450.4	1454.0	1455.0	1456.0	1457.5	1462.5	1456.5
5°	1344.0	1340.8	1338.9	1345.9	1338.9	1340.8	1344.0	1347.8	1354.2	1354.8	1361.1
7.5°	1260.4	1257.9	1252.4	1250.5	1252.4	1257.9	1260.4	1262.7	1269.0	1274.5	1283.8
10°	1206.8	1204.3	1199.2	1197.9	1199.2	1204.3	1206.8	1213.1	1219.4	1226.4	1232.7
12.5°	1155.2	1150.1	1149.1	1150.4	1149.1	1150.1	1155.2	1163.6	1180.0	1179.9	1181.1
15°	1086.6	1084.1	1077.1	1079.0	1077.1	1084.1	1086.6	1094.9	1102.4	1111.9	1121.4
17.5°	1019.1	1016.1	1007.6	1015.0	1007.6	1016.1	1019.1	1023.5	1033.2	1046.6	1061.0
20°	976.5	971.5	967.1	966.5	967.1	971.5	976.5	981.0	991.7	1003.1	1013.9
22.5°	936.0	931.5	931.1	927.0	931.1	931.5	936.0	943.0	953.8	960.1	970.3
25°	885.5	881.1	879.8	876.6	879.8	881.1	885.5	890.6	897.5	902.5	913.9
27.5°	846.7	844.5	842.2	843.2	842.2	844.5	846.7	847.3	850.4	857.1	863.7
30°	822.8	822.2	820.9	820.9	820.9	822.2	822.8	820.9	824.1	827.3	832.3
32.5°	803.1	803.0	803.7	803.7	803.7	803.0	803.1	800.3	801.4	802.5	805.0
35°	775.5	777.3	778.6	776.7	778.6	777.3	775.5	772.9	771.0	766.6	767.9
37.5°	750.4	752.3	754.1	756.2	754.1	752.3	750.4	745.2	740.6	736.7	732.1
40°	731.2	735.6	736.8	740.0	736.8	735.6	731.2	725.5	720.4	716.0	710.9
42.5°	713.0	717.9	721.1	721.8	721.1	717.9	713.0	707.3	699.7	694.2	687.1
45°	685.0	690.1	694.5	694.5	694.5	690.1	685.0	675.5	667.3	659.0	652.1
47.5°	656.0	663.4	667.8	668.9	667.8	663.4	656.0	646.3	634.8	624.6	614.7
50°	636.3	645.2	649.6	652.8	649.6	645.2	636.3	625.5	613.5	600.9	588.8
52.5°	617.0	625.9	631.8	633.5	631.8	625.9	617.0	603.8	589.2	575.6	565.1
55°	583.8	596.4	603.4	605.9	603.4	596.4	583.8	569.3	555.3	538.2	523.1
57.5°	552.4	564.0	572.1	574.0	572.1	564.0	552.4	535.4	517.4	499.2	483.0
60°	528.1	540.7	550.9	552.8	550.9	540.7	528.1	511.0	492.1	474.4	454.2
62.5°	503.4	516.5	525.6	530.5	525.6	516.5	503.4	485.2	464.8	445.0	424.8
65°	460.4	473.7	482.6	484.5	482.6	473.7	460.4	442.8	421.2	400.4	383.3
67.5°	413.7	426.9	432.8	436.4	432.8	426.9	413.7	397.0	375.7	354.1	334.7
70°	380.7	391.5	397.8	401.0	397.8	391.5	380.7	363.1	345.3	323.2	302.3
72.5°	343.3	354.6	361.9	362.5	361.9	354.6	343.3	328.1	309.4	288.8	270.5
75°	285.9	296.0	299.8	299.8	299.8	296.0	285.9	271.3	256.2	239.7	221.3
77.5°	226.3	231.5	236.3	237.3	236.3	231.5	226.3	215.8	203.3	186.9	173.0
80°	187.8	191.0	194.8	194.8	194.8	191.0	187.8	178.4	166.4	152.4	141.6
82.5°	148.4	151.1	154.9	154.3	154.9	151.1	148.4	140.9	130.9	121.6	111.9
85°	89.8	95.5	94.9	93.6	94.9	95.5	89.8	91.1	81.6	75.3	66.4
87.5°	46.3	47.0	48.6	49.7	48.6	47.0	46.3	44.8	40.0	37.2	34.9
90°	29.5	29.9	30.3	30.8	30.3	29.9	29.5	29.0	28.1	26.7	25.3
92.5°	28.1	28.2	28.3	28.4	28.3	28.2	28.1	28.0	27.3	25.9	24.6
95°	29.1	29.3	29.5	29.8	29.5	29.3	29.1	28.9	28.1	26.7	25.3
97.5°	28.1	28.3	28.5	28.8	28.5	28.3	28.1	27.9	27.6	27.6	27.4
100°	28.1	28.3	28.5	28.8	28.5	28.3	28.1	27.9	29.7	33.6	37.5
102.5°	29.5	29.5	29.5	29.6	29.5	29.5	29.5	29.4	50.3	92.2	134.1
105°	317.5	309.3	301.0	292.9	301.0	309.3	317.5	325.7	328.8	326.8	324.7
107.5°	405.5	406.4	407.3	408.1	407.3	406.4	405.5	404.6	403.7	402.7	401.7
110°	456.2	456.9	457.6	458.3	457.6	456.9	456.2	455.5	455.0	454.5	454.1



TEST NUMBER: P332853-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	505.8	506.7	507.6	508.4	507.6	506.7	505.8	504.9	504.5	504.6	504.7
115°	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.3	580.9	580.4
117.5°	656.2	656.2	656.1	655.9	656.1	656.2	656.2	656.3	656.4	656.5	656.6
120°	704.2	703.7	703.3	702.8	703.3	703.7	704.2	704.6	704.6	704.2	703.7
122.5°	750.2	749.7	749.3	748.8	749.3	749.7	750.2	750.7	750.8	750.5	750.2
125°	817.2	817.5	817.7	817.9	817.7	817.5	817.2	817.0	816.5	815.9	815.2
127.5°	879.1	878.8	878.7	878.5	878.7	878.8	879.1	879.2	879.4	879.6	879.7
130°	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.6	919.5	919.2	919.0
132.5°	958.0	957.8	957.6	957.4	957.6	957.8	958.0	958.1	958.1	957.9	957.7
135°	1012.8	1013.2	1013.7	1014.2	1013.7	1013.2	1012.8	1012.3	1011.9	1011.4	1011.0
137.5°	1063.0	1063.0	1062.8	1062.6	1062.8	1063.0	1063.0	1063.2	1063.0	1062.5	1062.0
140°	1095.7	1095.9	1096.1	1096.4	1096.1	1095.9	1095.7	1095.4	1095.0	1094.3	1093.6
142.5°	1124.2	1124.2	1124.3	1124.3	1124.3	1124.2	1124.2	1124.1	1123.9	1123.3	1122.8
145°	1165.9	1166.3	1166.8	1167.3	1166.8	1166.3	1165.9	1165.5	1165.1	1164.8	1164.6
147.5°	1202.1	1202.4	1202.5	1202.8	1202.5	1202.4	1202.1	1201.9	1201.7	1201.5	1201.3
150°	1225.1	1225.3	1225.6	1225.8	1225.6	1225.3	1225.1	1224.9	1224.8	1224.8	1224.8
152.5°	1245.9	1245.8	1245.7	1245.5	1245.7	1245.8	1245.9	1246.1	1245.9	1245.6	1245.2
155°	1274.1	1273.4	1272.7	1272.1	1272.7	1273.4	1274.1	1274.8	1274.7	1273.7	1272.9
157.5°	1297.8	1296.6	1295.5	1294.3	1295.5	1296.6	1297.8	1299.0	1299.0	1297.8	1296.6
160°	1313.1	1311.8	1310.4	1309.1	1310.4	1311.8	1313.1	1314.5	1314.5	1313.1	1311.8
162.5°	1325.2	1323.7	1322.1	1320.6	1322.1	1323.7	1325.2	1326.7	1326.8	1325.5	1324.1
165°	1343.0	1340.9	1338.9	1336.8	1338.9	1340.9	1343.0	1345.0	1345.1	1343.3	1341.5
167.5°	1355.7	1353.4	1351.2	1348.9	1351.2	1353.4	1355.7	1358.0	1358.2	1356.1	1354.2
170°	1363.2	1360.9	1358.6	1356.3	1358.6	1360.9	1363.2	1365.4	1365.6	1363.8	1362.0
172.5°	1367.8	1365.3	1362.9	1360.4	1362.9	1365.3	1367.8	1370.3	1370.6	1368.8	1366.9
175°	1373.8	1371.0	1368.3	1365.6	1368.3	1371.0	1373.8	1376.5	1376.9	1374.8	1372.8
177.5°	1375.4	1373.2	1371.0	1368.8	1371.0	1373.2	1375.4	1377.6	1378.0	1376.5	1375.1
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1459.5	1461.6	1469.7	1477.3	1486.4	1492.9	1497.5	1502.5	1513.1	1521.8	1529.9
5°	1367.5	1370.6	1387.0	1398.4	1418.0	1435.1	1448.4	1462.9	1480.0	1503.4	1525.0
7.5°	1286.3	1298.1	1316.1	1334.5	1354.6	1376.9	1396.4	1418.3	1447.8	1479.9	1513.1
10°	1240.3	1253.6	1272.6	1294.1	1313.0	1338.9	1363.0	1388.9	1422.4	1461.7	1500.9
12.5°	1194.3	1216.2	1230.6	1256.1	1276.6	1298.0	1323.6	1357.6	1396.7	1437.9	1485.2
15°	1136.5	1148.6	1176.4	1190.3	1219.4	1252.4	1277.6	1311.8	1349.7	1404.1	1457.2
17.5°	1070.1	1085.8	1108.0	1134.6	1167.9	1193.7	1225.1	1260.3	1308.1	1362.2	1428.7
20°	1026.5	1039.8	1067.0	1096.1	1131.6	1158.7	1192.2	1226.4	1275.7	1333.3	1402.9
22.5°	987.5	1000.4	1029.0	1056.1	1090.5	1123.8	1158.8	1198.6	1245.9	1306.5	1377.5
25°	927.2	944.3	969.6	997.4	1030.3	1068.3	1106.2	1141.6	1192.2	1256.1	1332.1
27.5°	873.7	887.4	905.7	937.3	974.7	1011.4	1049.0	1093.6	1142.2	1209.7	1288.5
30°	839.3	852.0	870.3	899.4	934.2	973.4	1012.6	1055.6	1106.2	1173.3	1253.6
32.5°	812.0	821.6	837.9	864.0	895.7	937.0	975.7	1020.2	1073.3	1139.4	1217.7
35°	771.7	779.8	786.2	810.9	839.3	877.3	916.5	963.9	1015.2	1077.8	1156.2
37.5°	732.1	734.8	744.1	760.3	787.8	822.8	859.2	905.9	958.4	1022.0	1092.7
40°	707.7	709.0	714.7	729.9	753.9	786.8	822.2	868.4	918.4	978.4	1048.7
42.5°	684.0	683.2	688.4	699.0	721.5	751.4	786.3	828.5	878.4	933.9	1000.1
45°	646.4	646.4	645.2	654.0	672.3	701.4	730.6	771.0	812.8	867.1	922.8
47.5°	607.2	603.6	604.8	609.3	624.8	648.7	678.0	711.1	748.0	794.0	842.9
50°	581.9	576.9	575.0	580.0	593.9	614.8	642.6	671.7	706.5	746.9	788.7
52.5°	554.1	549.0	545.6	549.1	562.1	581.4	606.7	632.2	663.5	696.4	732.5
55°	511.0	505.3	503.4	504.7	514.2	529.4	550.9	574.3	597.7	624.9	650.2
57.5°	468.7	459.3	457.6	456.9	463.5	477.4	495.4	515.6	532.7	549.1	576.1
60°	440.8	429.4	425.6	425.0	430.1	441.5	457.9	478.2	490.2	501.5	525.0
62.5°	411.0	400.1	391.7	392.7	397.2	408.1	422.5	437.2	445.1	457.6	473.3
65°	365.0	351.0	344.7	342.8	345.3	354.2	365.6	375.1	383.9	389.0	404.2
67.5°	318.9	307.3	297.9	295.6	294.5	300.6	309.9	315.6	321.9	326.4	335.3
70°	286.5	276.4	265.0	261.2	260.5	265.6	274.5	275.1	284.0	285.9	295.4
72.5°	254.6	242.0	234.2	230.4	227.7	232.3	238.1	239.7	244.5	248.0	252.9
75°	204.9	195.4	187.8	182.1	180.2	182.8	182.8	185.9	189.1	191.0	196.7
77.5°	161.3	150.4	141.4	138.2	135.9	134.2	135.6	137.5	136.0	139.3	140.5
80°	130.9	119.5	112.6	111.3	107.5	104.3	103.7	105.6	103.1	104.3	108.1
82.5°	101.1	93.7	86.3	85.0	80.2	78.6	78.0	76.8	76.8	76.5	77.3
85°	60.0	55.7	50.6	47.5	45.6	42.4	42.4	41.1	39.8	38.6	39.2
87.5°	29.1	27.8	24.9	23.1	21.6	19.3	18.9	16.8	15.8	14.8	13.8
90°	24.0	22.6	20.8	18.9	17.1	15.3	13.2	10.6	8.1	5.6	3.1
92.5°	23.1	21.8	20.0	18.1	16.3	14.5	13.5	13.4	13.2	13.1	12.9
95°	24.0	22.6	22.3	22.2	21.9	21.7	25.4	33.2	41.0	48.7	56.5
97.5°	27.3	27.1	52.6	78.1	103.5	129.0	139.3	134.5	129.7	124.8	120.0
100°	41.4	45.2	76.7	108.2	139.7	171.3	185.0	180.9	176.7	172.6	168.5
102.5°	175.9	217.9	222.0	226.1	230.1	234.2	234.8	231.8	228.8	225.8	222.8
105°	322.7	320.6	319.4	318.3	317.2	316.0	314.7	313.4	312.0	310.6	309.3
107.5°	400.7	399.7	398.2	396.6	395.1	393.5	392.4	391.7	391.0	390.3	389.6
110°	453.6	453.1	451.8	450.4	449.0	447.7	446.6	445.9	445.3	444.6	443.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	504.9	504.9	504.3	503.7	503.0	502.3	501.5	500.2	499.0	497.7	496.5
115°	580.0	579.5	579.7	580.0	580.2	580.4	580.2	579.5	578.8	578.1	577.4
117.5°	656.7	656.8	656.2	655.8	655.3	654.7	654.0	653.2	652.2	651.3	650.4
120°	703.3	702.8	703.1	703.3	703.5	703.7	703.4	702.5	701.6	700.6	699.7
122.5°	750.0	749.6	749.3	749.0	748.7	748.4	748.0	747.4	746.9	746.3	745.8
125°	814.4	813.8	814.2	814.7	815.2	815.6	815.4	814.4	813.6	812.6	811.7
127.5°	879.8	880.0	878.9	877.8	876.8	875.8	875.1	874.9	874.6	874.4	874.2
130°	918.9	918.6	917.9	917.2	916.6	915.8	915.4	915.1	915.0	914.7	914.5
132.5°	957.4	957.2	956.3	955.5	954.7	953.8	953.1	952.7	952.3	951.9	951.5
135°	1010.5	1010.0	1009.2	1008.2	1007.3	1006.4	1006.1	1006.3	1006.5	1006.7	1006.9
137.5°	1061.5	1061.0	1060.0	1059.0	1058.0	1057.0	1056.5	1056.4	1056.2	1056.1	1056.1
140°	1092.9	1092.3	1091.8	1091.3	1090.8	1090.4	1090.0	1089.5	1089.0	1088.6	1088.1
142.5°	1122.4	1121.8	1121.6	1121.3	1121.0	1120.7	1120.2	1119.4	1118.6	1117.7	1116.9
145°	1164.4	1164.2	1164.2	1164.2	1164.2	1164.2	1163.8	1163.2	1162.4	1161.7	1161.1
147.5°	1201.1	1200.9	1201.2	1201.4	1201.7	1201.9	1201.3	1200.1	1198.8	1197.5	1196.2
150°	1224.8	1224.8	1225.0	1225.3	1225.5	1225.7	1225.3	1224.5	1223.5	1222.7	1221.7
152.5°	1244.9	1244.5	1244.9	1245.3	1245.8	1246.2	1246.0	1245.2	1244.5	1243.8	1243.1
155°	1271.9	1271.1	1271.7	1272.4	1273.1	1273.7	1274.0	1273.7	1273.5	1273.3	1273.1
157.5°	1295.5	1294.3	1295.1	1295.8	1296.6	1297.4	1297.8	1297.9	1298.1	1298.2	1298.4
160°	1310.4	1309.1	1309.2	1309.5	1309.7	1310.0	1310.4	1311.1	1311.8	1312.5	1313.1
162.5°	1322.7	1321.4	1321.6	1321.8	1322.1	1322.3	1322.9	1323.7	1324.6	1325.4	1326.3
165°	1339.7	1337.8	1337.8	1337.8	1337.8	1337.8	1338.4	1339.5	1340.7	1341.8	1343.0
167.5°	1352.2	1350.1	1350.3	1350.4	1350.6	1350.7	1351.4	1352.6	1353.8	1354.9	1356.1
170°	1360.2	1358.4	1358.1	1357.9	1357.6	1357.5	1358.0	1359.4	1360.7	1362.2	1363.5
172.5°	1365.1	1363.3	1363.0	1362.9	1362.6	1362.4	1362.9	1364.3	1365.7	1367.1	1368.4
175°	1370.7	1368.7	1368.4	1368.2	1367.9	1367.7	1368.3	1369.7	1371.0	1372.4	1373.8
177.5°	1373.6	1372.1	1371.7	1371.4	1371.0	1370.6	1371.1	1372.4	1373.6	1375.0	1376.3
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1536.9	1542.0	1548.6	1559.7	1563.8	1568.8	1575.9	1575.4	1577.4	1585.0	1601.2
5°	1542.6	1562.3	1581.2	1604.0	1628.0	1643.9	1665.3	1678.6	1691.9	1709.0	1738.0
7.5°	1544.9	1576.0	1610.8	1650.8	1686.3	1727.4	1759.4	1789.5	1816.6	1852.7	1887.4
10°	1541.3	1583.1	1628.0	1678.6	1732.3	1777.9	1819.0	1865.8	1905.7	1949.3	1988.5
12.5°	1534.8	1585.2	1645.2	1701.9	1764.7	1832.1	1883.3	1930.6	1983.6	2033.8	2094.3
15°	1519.9	1588.8	1659.0	1733.6	1817.7	1895.5	1969.6	2030.9	2087.9	2163.1	2242.2
17.5°	1500.9	1575.3	1663.8	1754.1	1842.1	1931.0	2022.6	2114.8	2186.7	2280.1	2342.0
20°	1483.2	1569.2	1660.3	1767.8	1855.7	1966.4	2057.5	2146.7	2245.4	2338.3	2412.3
22.5°	1458.4	1552.5	1649.2	1756.2	1871.9	1982.6	2087.9	2184.6	2283.3	2384.4	2474.1
25°	1426.9	1512.3	1626.7	1748.2	1863.3	1983.5	2104.3	2225.7	2331.9	2438.9	2522.4
27.5°	1373.2	1481.1	1587.7	1713.0	1841.0	1976.9	2106.1	2233.2	2344.5	2432.4	2484.1
30°	1345.9	1439.6	1555.3	1681.2	1819.6	1965.8	2100.5	2225.1	2328.9	2399.0	2419.9
32.5°	1305.4	1402.1	1515.3	1645.8	1792.3	1942.5	2082.8	2200.3	2286.8	2323.6	2298.4
35°	1245.4	1332.7	1447.2	1580.6	1733.0	1893.0	2031.6	2130.8	2175.1	2140.3	2053.7
37.5°	1173.3	1259.8	1374.8	1505.9	1663.6	1826.2	1951.5	2022.9	2008.3	1921.8	1792.6
40°	1122.7	1203.6	1313.0	1454.7	1608.4	1771.6	1881.7	1920.2	1879.8	1755.8	1618.5
42.5°	1066.5	1145.4	1255.4	1391.9	1554.8	1705.3	1801.2	1804.4	1736.5	1588.3	1450.6
45°	981.0	1056.2	1160.0	1302.3	1452.9	1594.5	1657.7	1626.7	1501.5	1358.6	1220.0
47.5°	896.6	961.9	1064.1	1199.2	1342.1	1461.4	1492.8	1437.0	1303.5	1164.8	1036.4
50°	834.9	900.6	996.8	1125.8	1263.7	1366.8	1382.0	1308.0	1177.0	1037.3	936.7
52.5°	775.7	841.0	933.6	1053.0	1179.2	1272.2	1272.7	1187.1	1056.6	932.0	838.5
55°	688.8	747.6	831.1	937.9	1050.6	1123.3	1105.6	1017.0	903.8	795.7	714.1
57.5°	605.1	656.2	733.2	822.4	921.5	981.5	952.1	866.9	765.8	674.1	612.3
60°	550.9	599.6	665.4	749.5	833.0	879.8	852.0	774.8	681.8	607.8	554.1
62.5°	498.3	539.4	602.6	675.7	753.0	787.7	762.9	686.7	606.4	539.5	495.9
65°	423.7	457.3	507.9	570.5	626.8	656.6	635.6	564.8	503.4	455.4	420.6
67.5°	354.2	380.4	418.7	468.9	516.7	532.8	513.8	464.5	412.5	374.1	349.5
70°	306.1	330.8	363.1	401.6	443.4	460.4	441.5	402.3	359.9	324.5	300.4
72.5°	264.1	283.2	310.5	343.4	376.0	393.2	380.2	342.5	306.7	280.4	259.9
75°	201.1	217.6	236.5	259.9	285.3	296.7	285.3	259.3	234.6	215.1	200.5
77.5°	146.2	155.1	169.8	187.2	203.0	211.8	201.9	184.3	169.3	155.8	148.6
80°	111.3	117.6	127.8	141.6	152.4	160.7	154.3	139.7	127.8	118.9	115.7
82.5°	81.0	85.2	91.8	102.2	109.4	113.6	110.8	100.3	95.4	87.5	84.4
85°	39.8	42.4	46.8	50.0	56.3	57.0	57.6	53.2	48.7	46.8	44.3
87.5°	14.8	15.8	17.8	19.8	22.3	23.1	23.1	23.4	21.7	21.5	19.7
90°	5.6	8.1	10.6	13.2	15.3	17.1	18.9	20.8	22.6	24.0	25.3
92.5°	13.1	13.2	13.4	13.5	14.5	16.3	18.1	20.0	21.8	23.1	24.6
95°	48.7	41.0	33.2	25.4	21.7	21.9	22.2	22.3	22.6	24.0	25.3
97.5°	124.8	129.7	134.5	139.3	129.0	103.5	78.1	52.6	27.1	27.3	27.4
100°	172.6	176.7	180.9	185.0	171.3	139.7	108.2	76.7	45.2	41.4	37.5
102.5°	225.8	228.8	231.8	234.8	234.2	230.1	226.1	222.0	217.9	175.9	134.1
105°	310.6	312.0	313.4	314.7	316.0	317.2	318.3	319.4	320.6	322.7	324.7
107.5°	390.3	391.0	391.7	392.4	393.5	395.1	396.6	398.2	399.7	400.7	401.7
110°	444.6	445.3	445.9	446.6	447.7	449.0	450.4	451.8	453.1	453.6	454.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	497.7	499.0	500.2	501.5	502.3	503.0	503.7	504.3	504.9	504.9	504.7
115°	578.1	578.8	579.5	580.2	580.4	580.2	580.0	579.7	579.5	580.0	580.4
117.5°	651.3	652.2	653.2	654.0	654.7	655.3	655.8	656.2	656.8	656.7	656.6
120°	700.6	701.6	702.5	703.4	703.7	703.5	703.3	703.1	702.8	703.3	703.7
122.5°	746.3	746.9	747.4	748.0	748.4	748.7	749.0	749.3	749.6	750.0	750.2
125°	812.6	813.6	814.4	815.4	815.6	815.2	814.7	814.2	813.8	814.4	815.2
127.5°	874.4	874.6	874.9	875.1	875.8	876.8	877.8	878.9	880.0	879.8	879.7
130°	914.7	915.0	915.1	915.4	915.8	916.6	917.2	917.9	918.6	918.9	919.0
132.5°	951.9	952.3	952.7	953.1	953.8	954.7	955.5	956.3	957.2	957.4	957.7
135°	1006.7	1006.5	1006.3	1006.1	1006.4	1007.3	1008.2	1009.2	1010.0	1010.5	1011.0
137.5°	1056.1	1056.2	1056.4	1056.5	1057.0	1058.0	1059.0	1060.0	1061.0	1061.5	1062.0
140°	1088.6	1089.0	1089.5	1090.0	1090.4	1090.8	1091.3	1091.8	1092.3	1092.9	1093.6
142.5°	1117.7	1118.6	1119.4	1120.2	1120.7	1121.0	1121.3	1121.6	1121.8	1122.4	1122.8
145°	1161.7	1162.4	1163.2	1163.8	1164.2	1164.2	1164.2	1164.2	1164.2	1164.4	1164.6
147.5°	1197.5	1198.8	1200.1	1201.3	1201.9	1201.7	1201.4	1201.2	1200.9	1201.1	1201.3
150°	1222.7	1223.5	1224.5	1225.3	1225.7	1225.5	1225.3	1225.0	1224.8	1224.8	1224.8
152.5°	1243.8	1244.5	1245.2	1246.0	1246.2	1245.8	1245.3	1244.9	1244.5	1244.9	1245.2
155°	1273.3	1273.5	1273.7	1274.0	1273.7	1273.1	1272.4	1271.7	1271.1	1271.9	1272.9
157.5°	1298.2	1298.1	1297.9	1297.8	1297.4	1296.6	1295.8	1295.1	1294.3	1295.5	1296.6
160°	1312.5	1311.8	1311.1	1310.4	1310.0	1309.7	1309.5	1309.2	1309.1	1310.4	1311.8
162.5°	1325.4	1324.6	1323.7	1322.9	1322.3	1322.1	1321.8	1321.6	1321.4	1322.7	1324.1
165°	1341.8	1340.7	1339.5	1338.4	1337.8	1337.8	1337.8	1337.8	1337.8	1339.7	1341.5
167.5°	1354.9	1353.8	1352.6	1351.4	1350.7	1350.6	1350.4	1350.3	1350.1	1352.2	1354.2
170°	1362.2	1360.7	1359.4	1358.0	1357.5	1357.6	1357.9	1358.1	1358.4	1360.2	1362.0
172.5°	1367.1	1365.7	1364.3	1362.9	1362.4	1362.6	1362.9	1363.0	1363.3	1365.1	1366.9
175°	1372.4	1371.0	1369.7	1368.3	1367.7	1367.9	1368.2	1368.4	1368.7	1370.7	1372.8
177.5°	1375.0	1373.6	1372.4	1371.1	1370.6	1371.0	1371.4	1371.7	1372.1	1373.6	1375.1
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1609.3	1610.3	1614.9	1618.4	1619.5	1624.4	1625.0
5°	1750.7	1761.5	1782.3	1784.2	1787.4	1803.9	1791.2
7.5°	1916.4	1943.8	1962.0	1978.1	1983.9	1991.1	1989.6
10°	2022.7	2063.2	2083.4	2115.7	2116.9	2125.2	2120.1
12.5°	2129.5	2176.5	2213.4	2219.4	2246.5	2250.7	2257.7
15°	2280.8	2330.7	2381.9	2400.3	2437.6	2446.5	2460.4
17.5°	2423.0	2474.1	2510.0	2557.4	2572.7	2593.2	2579.3
20°	2500.8	2556.5	2602.1	2639.4	2655.2	2666.6	2665.3
22.5°	2547.9	2604.1	2641.0	2669.3	2684.0	2688.8	2688.6
25°	2577.4	2609.6	2621.0	2631.8	2615.3	2609.6	2612.1
27.5°	2495.5	2487.1	2457.3	2418.4	2377.9	2345.7	2328.3
30°	2382.6	2333.2	2288.4	2209.9	2169.5	2145.4	2123.9
32.5°	2222.7	2144.5	2058.1	1986.2	1940.2	1904.6	1899.3
35°	1948.7	1831.1	1725.5	1637.5	1592.0	1553.4	1544.5
37.5°	1656.8	1534.5	1439.4	1362.0	1313.0	1285.9	1260.4
40°	1462.9	1358.0	1264.3	1198.6	1161.3	1141.6	1125.8
42.5°	1313.7	1217.8	1124.7	1074.6	1040.8	1028.8	1019.5
45°	1107.5	1018.3	953.8	915.8	896.2	876.0	866.5
47.5°	942.4	869.8	827.3	795.0	774.0	762.0	756.0
50°	848.8	789.3	751.4	726.7	707.7	698.2	693.2
52.5°	765.8	717.0	685.1	665.5	652.6	645.6	643.6
55°	659.7	622.3	602.1	585.0	575.6	569.3	566.7
57.5°	573.4	544.7	528.2	514.2	510.6	505.3	503.4
60°	516.7	494.6	480.7	471.2	468.0	461.7	463.0
62.5°	466.7	448.5	436.7	431.3	427.1	421.8	423.5
65°	394.7	381.4	375.1	370.0	365.0	361.8	364.3
67.5°	331.1	322.1	313.5	310.5	308.0	307.5	304.8
70°	289.7	282.1	274.5	272.6	272.6	270.1	269.4
72.5°	249.7	244.2	239.1	237.7	235.7	236.7	234.0
75°	192.9	188.5	186.6	184.7	184.0	184.0	182.1
77.5°	142.6	139.3	136.3	136.3	134.0	133.1	132.8
80°	108.1	106.9	104.3	104.3	103.1	103.7	102.4
82.5°	81.4	79.5	79.1	78.0	76.3	76.4	75.2
85°	43.6	41.7	41.1	39.2	37.9	39.2	37.9
87.5°	20.5	20.3	20.0	19.0	18.6	18.7	17.3
90°	26.7	28.1	29.0	29.5	29.9	30.3	30.8
92.5°	25.9	27.3	28.0	28.1	28.2	28.3	28.4
95°	26.7	28.1	28.9	29.1	29.3	29.5	29.8
97.5°	27.6	27.6	27.9	28.1	28.3	28.5	28.8
100°	33.6	29.7	27.9	28.1	28.3	28.5	28.8
102.5°	92.2	50.3	29.4	29.5	29.5	29.5	29.6
105°	326.8	328.8	325.7	317.5	309.3	301.0	292.9
107.5°	402.7	403.7	404.6	405.5	406.4	407.3	408.1
110°	454.5	455.0	455.5	456.2	456.9	457.6	458.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	504.6	504.5	504.9	505.8	506.7	507.6	508.4
115°	580.9	581.3	581.5	581.5	581.5	581.5	581.5
117.5°	656.5	656.4	656.3	656.2	656.2	656.1	655.9
120°	704.2	704.6	704.6	704.2	703.7	703.3	702.8
122.5°	750.5	750.8	750.7	750.2	749.7	749.3	748.8
125°	815.9	816.5	817.0	817.2	817.5	817.7	817.9
127.5°	879.6	879.4	879.2	879.1	878.8	878.7	878.5
130°	919.2	919.5	919.6	919.6	919.6	919.6	919.6
132.5°	957.9	958.1	958.1	958.0	957.8	957.6	957.4
135°	1011.4	1011.9	1012.3	1012.8	1013.2	1013.7	1014.2
137.5°	1062.5	1063.0	1063.2	1063.0	1063.0	1062.8	1062.6
140°	1094.3	1095.0	1095.4	1095.7	1095.9	1096.1	1096.4
142.5°	1123.3	1123.9	1124.1	1124.2	1124.2	1124.3	1124.3
145°	1164.8	1165.1	1165.5	1165.9	1166.3	1166.8	1167.3
147.5°	1201.5	1201.7	1201.9	1202.1	1202.4	1202.5	1202.8
150°	1224.8	1224.8	1224.9	1225.1	1225.3	1225.6	1225.8
152.5°	1245.6	1245.9	1246.1	1245.9	1245.8	1245.7	1245.5
155°	1273.7	1274.7	1274.8	1274.1	1273.4	1272.7	1272.1
157.5°	1297.8	1299.0	1299.0	1297.8	1296.6	1295.5	1294.3
160°	1313.1	1314.5	1314.5	1313.1	1311.8	1310.4	1309.1
162.5°	1325.5	1326.8	1326.7	1325.2	1323.7	1322.1	1320.6
165°	1343.3	1345.1	1345.0	1343.0	1340.9	1338.9	1336.8
167.5°	1356.1	1358.2	1358.0	1355.7	1353.4	1351.2	1348.9
170°	1363.8	1365.6	1365.4	1363.2	1360.9	1358.6	1356.3
172.5°	1368.8	1370.6	1370.3	1367.8	1365.3	1362.9	1360.4
175°	1374.8	1376.9	1376.5	1373.8	1371.0	1368.3	1365.6
177.5°	1376.5	1378.0	1377.6	1375.4	1373.2	1371.0	1368.8
180°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8

(END OF REPORT)