

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: P331760-840

Luminaire Tested: **SA2XXRDIP-C1005D1080U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331760-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C1005D1080U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

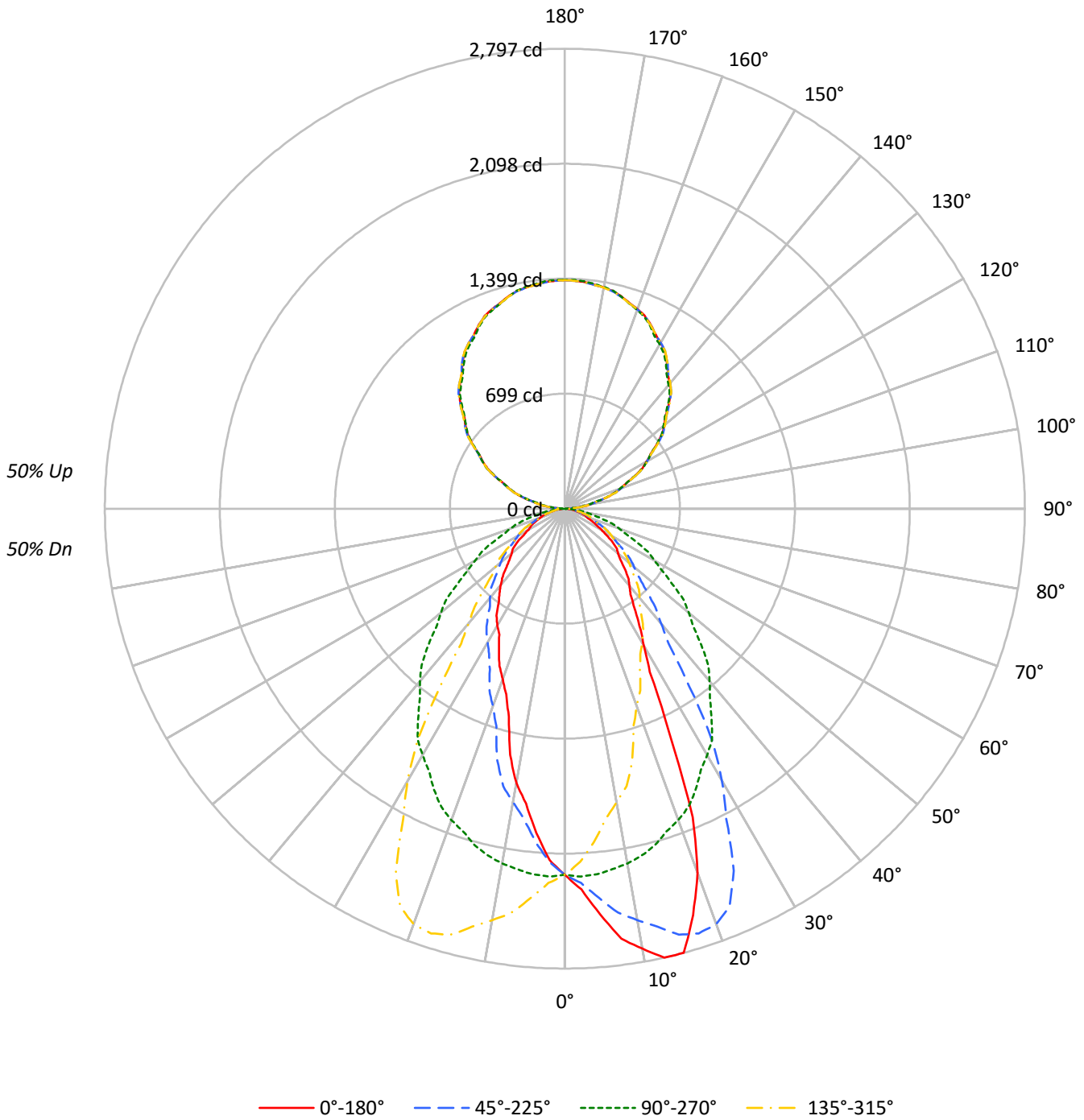
Lumens per Lamp: N/A
Luminaire Lumens: 7741.5 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.7
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	91	88	91	87	84	81	74	72	70	62	60	59	51	50	49	43
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	83	74	67	62	76	69	63	58	59	54	51	50	46	44	41	39	37	33
4	76	66	59	53	70	62	55	50	53	48	44	45	41	38	37	35	33	29
5	70	59	52	46	65	55	49	44	48	43	39	41	37	34	34	31	29	26
6	65	54	46	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23
7	61	49	41	36	56	46	39	34	40	34	31	34	30	27	29	26	24	21
8	56	45	37	32	52	42	35	31	36	31	27	31	27	24	27	24	21	19
9	53	41	34	29	49	38	32	28	34	29	25	29	25	22	25	22	20	18
10	49	38	31	26	46	36	29	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35960	35960	35960	35960
5°	40161	36185	32083	36185
10°	44558	35931	27811	35931
15°	46748	35405	21912	35405
20°	40527	34625	18962	34625
25°	26580	33556	16930	33556
30°	17890	32261	15321	32261
35°	14491	30628	13819	30628
40°	12886	28854	12787	28854
45°	11663	26772	11415	26772
50°	10613	24707	10575	24707
55°	9979	22415	9847	22415
60°	8344	20315	8247	20315
65°	7037	18449	7981	18449
70°	6500	16475	7530	16475
75°	6089	14336	6949	14336
80°	5616	11799	6192	11799
85°	5169	9318	5446	9318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	2.7
10°-20°	588.3	7.6
20°-30°	758.1	9.8
30°-40°	720.4	9.3
40°-50°	617.1	8.0
50°-60°	470.0	6.1
60°-70°	297.1	3.8
70°-80°	148.4	1.9
80°-90°	44.2	0.6
90°-100°	88.1	1.1
100°-110°	273.6	3.5
110°-120°	467.6	6.0
120°-130°	614.9	7.9
130°-140°	690.2	8.9
140°-150°	676.7	8.7
150°-160°	567.6	7.3
160°-170°	376.5	4.9
170°-180°	131.6	1.7
0°-30°	1557.5	20.1
0°-40°	2277.9	29.4
0°-60°	3365.0	43.5
0°-90°	3854.6	49.8
90°-120°	829.3	10.7
90°-150°	2811.1	36.3
90°-180°	3887.0	50.2
0°-180°	7741.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2227	2227	2227	2227	2227	
5°	2478	2233	1980	2233	2478	245
15°	2797	2118	1311	2118	2797	754
25°	1492	1884	950	1884	1492	708
35°	735	1554	701	1554	735	470
45°	511	1172	500	1172	511	395
55°	354	796	350	796	354	311
65°	184	483	209	483	184	187
75°	98	230	111	230	98	103
85°	28	50	29	50	28	31
90°	40	1	40	1	40	19
95°	73	61	73	61	73	81
105°	260	252	260	252	260	274
115°	469	469	469	469	469	463
125°	685	683	685	683	685	611
135°	894	883	894	883	894	688
145°	1084	1072	1084	1072	1084	677
155°	1235	1226	1235	1226	1235	568
165°	1335	1334	1335	1334	1335	376
175°	1383	1388	1383	1388	1383	131
180°	1390	1390	1390	1390	1390	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2317.5	2319.5	2321.3	2316.9	2316.9	2313.2	2305.2	2299.0	2281.7	2279.2	2279.2
5°	2477.9	2476.4	2479.4	2469.4	2455.5	2452.4	2437.7	2418.3	2398.2	2375.8	2371.2
7.5°	2637.4	2635.0	2628.8	2627.2	2616.5	2593.0	2569.4	2544.2	2510.7	2478.1	2461.6
10°	2717.8	2743.4	2727.8	2700.8	2706.2	2669.9	2650.5	2617.3	2589.4	2540.6	2529.8
12.5°	2797.0	2807.1	2802.2	2786.8	2779.9	2754.6	2728.5	2699.6	2648.2	2604.3	2566.3
15°	2796.7	2811.5	2815.3	2810.7	2814.6	2813.0	2799.0	2775.1	2730.2	2682.2	2640.4
17.5°	2590.3	2600.5	2625.9	2643.0	2664.7	2710.6	2733.1	2742.0	2735.3	2708.0	2678.5
20°	2358.7	2341.7	2412.9	2449.3	2480.2	2557.6	2624.1	2649.7	2690.7	2690.0	2682.2
22.5°	2030.6	2034.7	2102.1	2145.4	2235.7	2313.1	2388.9	2485.1	2564.5	2616.9	2647.6
25°	1492.0	1521.5	1588.7	1647.6	1748.2	1892.1	2022.9	2174.5	2317.7	2430.7	2538.3
27.5°	1120.5	1122.8	1176.1	1230.4	1290.2	1408.2	1572.8	1753.9	1958.0	2126.5	2320.2
30°	959.6	954.9	977.3	1010.7	1061.8	1153.1	1276.9	1454.9	1658.4	1912.2	2138.2
32.5°	845.7	846.0	862.8	887.5	929.9	991.5	1076.3	1220.8	1413.2	1662.7	1927.7
35°	735.2	734.4	746.8	764.6	782.3	821.8	879.9	955.7	1088.0	1321.0	1591.9
37.5°	655.9	659.3	665.4	676.5	696.2	718.1	753.0	803.9	898.2	1035.9	1263.5
40°	611.4	612.9	621.4	630.7	642.3	659.3	687.9	729.0	797.9	907.8	1074.1
42.5°	570.5	572.1	578.0	586.7	595.9	612.9	636.6	672.1	727.9	813.6	950.9
45°	510.8	510.8	516.1	520.1	530.1	545.5	564.9	594.3	633.0	696.5	787.8
47.5°	454.7	454.8	458.5	465.1	471.4	483.5	502.5	526.5	554.7	603.8	681.8
50°	422.5	423.3	425.7	431.0	434.9	445.8	460.5	481.3	510.8	548.7	613.7
52.5°	396.6	396.1	399.0	401.3	403.9	411.7	422.7	441.1	467.4	500.4	554.2
55°	354.5	351.3	356.0	359.8	362.1	365.3	371.4	383.0	405.5	433.3	473.6
57.5°	301.8	300.5	303.9	307.4	314.7	323.1	328.3	335.7	347.3	367.3	407.2
60°	258.4	258.4	265.4	267.7	276.3	287.1	297.9	304.2	315.8	328.9	358.3
62.5°	220.0	220.8	224.0	226.3	231.1	244.4	259.5	273.2	284.2	296.7	316.2
65°	184.2	185.7	185.7	187.2	190.4	193.5	199.7	210.5	229.8	247.6	262.4
67.5°	156.3	156.8	157.2	158.8	159.6	163.0	165.4	170.3	174.7	191.6	209.8
70°	137.7	140.1	139.3	140.9	141.6	143.2	146.2	148.6	155.5	159.5	170.3
72.5°	120.4	122.1	122.0	122.9	124.9	125.2	127.6	130.0	134.5	137.7	143.6
75°	97.6	96.7	97.6	99.1	99.9	100.6	100.6	103.7	106.0	109.1	113.0
77.5°	75.2	76.0	75.8	76.0	76.1	77.6	77.4	78.8	81.1	82.6	84.5
80°	60.4	61.1	60.4	61.1	61.9	62.7	61.9	62.7	65.0	66.6	66.6
82.5°	46.8	46.9	47.4	47.6	47.7	47.9	48.9	49.1	50.8	50.5	51.1
85°	27.9	27.1	27.1	27.1	27.9	28.7	27.9	27.9	28.7	28.7	28.7
87.5°	17.9	18.5	18.4	18.4	18.3	18.3	18.4	19.2	18.6	19.4	17.6
90°	39.9	39.6	39.4	39.1	38.9	39.0	39.5	40.0	40.5	41.1	35.3
92.5°	38.0	38.0	37.9	37.9	37.8	37.8	37.6	37.5	37.4	37.3	36.0
95°	72.7	73.2	73.8	74.3	74.8	75.0	75.0	75.0	75.0	75.0	74.5
97.5°	126.0	126.0	126.1	126.1	126.2	126.2	126.2	126.2	126.2	126.2	125.2
100°	160.7	161.0	161.3	161.5	161.8	161.9	161.9	161.9	161.9	161.9	161.1
102.5°	200.2	200.4	200.7	200.9	201.2	201.2	201.0	200.8	200.6	200.4	199.3
105°	260.4	260.4	260.4	260.4	260.4	260.1	259.6	259.1	258.6	258.0	257.5
107.5°	317.2	318.4	319.6	320.8	321.9	322.4	322.2	322.0	321.8	321.6	321.6
110°	361.3	362.0	362.8	363.7	364.5	364.9	364.9	364.9	364.9	364.9	364.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	403.5	404.1	404.7	405.3	405.9	406.5	407.1	407.7	408.3	408.9	409.1
115°	469.2	470.0	470.8	471.6	472.3	472.8	473.1	473.4	473.6	473.9	474.4
117.5°	531.9	532.6	533.4	534.2	535.0	535.7	536.3	536.9	537.6	538.2	539.7
120°	575.9	576.7	577.5	578.3	579.1	579.5	579.5	579.5	579.5	579.5	581.6
122.5°	619.1	619.8	620.3	620.9	621.5	622.0	622.7	623.3	623.9	624.5	626.0
125°	685.1	685.3	685.6	685.8	686.1	686.6	687.4	688.2	688.9	689.7	690.5
127.5°	745.1	746.0	746.8	747.6	748.4	749.3	750.2	751.2	752.1	753.1	754.1
130°	788.3	789.3	790.3	791.4	792.4	793.2	793.8	794.3	794.8	795.4	795.9
132.5°	829.6	830.4	831.2	832.1	832.9	833.9	835.1	836.2	837.4	838.5	838.4
135°	893.8	894.6	895.4	896.2	897.0	897.5	897.8	898.1	898.3	898.6	898.1
137.5°	952.0	953.1	954.1	955.1	956.2	956.8	957.0	957.3	957.5	957.7	956.9
140°	992.4	993.4	994.5	995.5	996.5	997.0	997.0	997.0	997.0	997.0	995.8
142.5°	1029.0	1030.1	1031.1	1032.1	1033.2	1033.6	1033.4	1033.2	1033.0	1032.8	1031.9
145°	1083.9	1084.9	1086.0	1087.0	1088.0	1088.4	1088.2	1087.9	1087.6	1087.4	1085.8
147.5°	1133.0	1133.9	1134.9	1135.9	1136.9	1137.1	1136.5	1136.0	1135.4	1134.8	1133.8
150°	1164.9	1165.6	1166.4	1167.2	1168.0	1168.0	1167.2	1166.4	1165.6	1164.9	1163.8
152.5°	1194.9	1195.9	1196.9	1197.8	1198.8	1198.8	1197.8	1196.9	1195.9	1194.9	1193.7
155°	1235.2	1236.0	1236.8	1237.6	1238.3	1238.1	1236.8	1235.5	1234.2	1232.8	1232.1
157.5°	1269.9	1271.2	1272.4	1273.6	1275.0	1274.7	1272.9	1271.1	1269.4	1267.6	1267.1
160°	1291.5	1292.5	1293.6	1294.6	1295.7	1295.5	1293.8	1292.3	1290.7	1289.2	1288.9
162.5°	1310.3	1311.5	1312.8	1314.0	1315.2	1315.0	1313.2	1311.5	1309.7	1308.0	1307.7
165°	1334.9	1336.3	1337.6	1338.9	1340.1	1339.9	1338.1	1336.3	1334.4	1332.6	1332.6
167.5°	1355.1	1356.5	1357.8	1359.2	1360.5	1360.3	1358.5	1356.7	1354.8	1353.0	1353.0
170°	1365.4	1367.0	1368.6	1370.1	1371.7	1371.5	1369.7	1367.9	1366.0	1364.2	1364.5
172.5°	1373.8	1375.4	1377.0	1378.6	1380.1	1380.0	1378.2	1376.3	1374.5	1372.7	1372.9
175°	1383.0	1384.6	1386.1	1387.8	1389.3	1389.2	1387.4	1385.5	1383.7	1381.8	1382.4
177.5°	1387.3	1388.5	1389.8	1391.0	1392.2	1392.2	1391.0	1389.8	1388.5	1387.3	1387.7
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2280.5	2275.4	2271.2	2260.0	2254.4	2242.0	2240.2	2239.6	2223.5	2208.0	2203.6
5°	2358.7	2346.3	2327.8	2306.1	2283.7	2260.5	2245.0	2232.6	2201.6	2172.2	2155.3
7.5°	2437.7	2411.1	2379.0	2338.0	2303.8	2265.4	2237.0	2211.4	2167.5	2125.4	2097.0
10°	2496.5	2453.2	2410.5	2354.1	2310.0	2266.6	2226.4	2191.6	2142.0	2086.4	2046.9
12.5°	2533.0	2485.4	2426.7	2371.5	2314.3	2259.3	2205.3	2160.6	2102.4	2044.9	1998.0
15°	2582.4	2531.3	2460.1	2381.2	2307.6	2235.7	2173.8	2118.1	2042.3	1973.4	1916.1
17.5°	2622.8	2552.5	2476.1	2384.8	2299.7	2208.2	2128.5	2057.3	1972.9	1889.8	1822.3
20°	2635.7	2566.2	2477.9	2386.6	2286.0	2178.5	2092.5	2015.2	1924.6	1834.0	1756.7
22.5°	2627.8	2573.5	2475.5	2366.2	2263.1	2150.6	2053.6	1963.8	1863.3	1770.9	1681.1
25°	2573.1	2554.6	2461.6	2342.5	2224.8	2094.1	1981.9	1883.6	1769.1	1670.0	1572.5
27.5°	2445.7	2485.8	2428.2	2301.3	2170.5	2030.3	1904.2	1792.3	1673.4	1562.0	1464.8
30°	2323.2	2415.2	2390.5	2272.8	2126.6	1988.8	1847.2	1730.4	1603.5	1488.9	1393.0
32.5°	2155.4	2307.5	2331.7	2233.2	2082.0	1930.7	1782.2	1666.0	1533.5	1412.8	1319.3
35°	1888.2	2115.8	2220.2	2157.6	2005.9	1842.6	1689.3	1553.9	1420.8	1301.6	1208.8
37.5°	1569.5	1879.5	2053.6	2058.0	1918.7	1749.0	1582.1	1447.6	1311.4	1194.4	1094.0
40°	1362.8	1698.6	1925.4	1975.7	1858.1	1674.7	1505.9	1369.0	1235.9	1121.4	1006.0
42.5°	1177.1	1511.7	1790.4	1877.8	1784.4	1602.3	1432.9	1289.7	1160.3	1052.0	934.2
45°	951.9	1244.4	1551.6	1707.9	1656.1	1487.3	1308.6	1172.5	1050.9	957.3	844.2
47.5°	802.9	1009.2	1306.5	1517.8	1516.9	1362.9	1187.1	1056.6	943.9	856.2	764.8
50°	718.1	897.7	1149.2	1389.1	1409.2	1280.0	1112.8	983.6	878.4	786.3	712.8
52.5°	642.0	789.9	1016.1	1246.1	1303.3	1191.4	1029.3	909.9	807.8	723.1	660.1
55°	542.5	657.0	828.8	1043.9	1130.6	1051.7	907.8	796.3	713.5	642.3	588.1
57.5°	458.9	544.8	682.7	855.9	956.8	907.2	788.4	697.9	627.0	562.6	519.9
60°	406.3	476.7	593.6	738.3	849.7	814.9	713.5	629.1	568.8	513.1	472.8
62.5°	356.8	417.3	517.5	634.9	737.0	722.7	639.9	569.1	516.1	465.4	431.3
65°	287.1	331.2	409.4	501.5	583.5	590.5	530.9	482.9	435.7	395.5	365.3
67.5°	228.6	257.4	312.5	390.0	451.5	473.4	437.1	400.4	362.9	331.8	305.7
70°	192.7	215.9	256.1	318.8	375.4	398.5	377.7	349.0	316.5	290.9	268.5
72.5°	156.1	178.7	208.4	254.5	302.9	328.0	320.7	300.1	273.8	252.6	231.4
75°	117.6	124.6	144.7	175.7	213.6	235.3	240.7	229.8	208.9	192.7	180.3
77.5°	86.9	91.2	100.8	117.0	141.8	161.1	169.1	167.7	153.4	143.9	132.3
80°	69.7	72.0	76.6	83.6	102.2	121.5	126.9	126.9	116.8	113.0	101.4
82.5°	52.9	54.6	57.5	61.3	70.0	86.8	92.9	94.1	87.8	82.6	73.5
85°	30.2	29.4	31.0	33.3	34.8	39.5	48.8	50.3	48.8	42.5	40.2
87.5°	16.5	16.0	14.7	13.2	13.2	13.2	15.8	18.2	16.4	15.1	14.5
90°	29.6	23.8	18.1	13.7	10.6	7.5	4.3	1.2	4.3	7.5	10.6
92.5°	34.6	33.2	31.9	30.1	27.8	25.4	23.1	20.9	23.1	25.4	27.8
95°	74.0	73.5	73.0	71.4	68.8	66.2	63.6	61.0	63.6	66.2	68.8
97.5°	124.2	123.2	122.3	120.6	118.4	116.0	113.7	111.5	113.7	116.0	118.4
100°	160.3	159.6	158.8	157.3	155.2	153.2	151.1	149.0	151.1	153.2	155.2
102.5°	198.3	197.4	196.4	195.1	193.4	191.8	190.1	188.4	190.1	191.8	193.4
105°	257.0	256.5	256.0	255.3	254.6	253.8	253.0	252.2	253.0	253.8	254.6
107.5°	321.6	321.6	321.6	321.0	319.9	318.8	317.6	316.5	317.6	318.8	319.9
110°	364.9	364.9	364.9	364.1	362.4	360.9	359.3	357.8	359.3	360.9	362.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	409.3	409.5	409.8	409.1	407.5	406.0	404.3	402.8	404.3	406.0	407.5
115°	474.9	475.4	475.9	475.4	473.9	472.3	470.8	469.2	470.8	472.3	473.9
117.5°	541.1	542.6	544.0	543.7	541.6	539.6	537.5	535.3	537.5	539.6	541.6
120°	583.7	585.7	587.8	587.8	585.7	583.7	581.6	579.5	581.6	583.7	585.7
122.5°	627.4	628.9	630.4	629.9	627.3	624.8	622.4	619.9	622.4	624.8	627.3
125°	691.4	692.1	692.9	692.1	689.7	687.4	685.1	682.7	685.1	687.4	689.7
127.5°	755.0	755.9	756.9	755.8	752.9	749.9	746.9	744.0	746.9	749.9	752.9
130°	796.4	796.9	797.4	796.0	792.5	789.2	785.8	782.4	785.8	789.2	792.5
132.5°	838.3	838.2	838.1	836.7	833.8	831.1	828.4	825.6	828.4	831.1	833.8
135°	897.5	897.0	896.5	894.7	891.9	889.1	886.2	883.3	886.2	889.1	891.9
137.5°	956.3	955.6	954.9	953.4	951.1	948.8	946.4	944.0	946.4	948.8	951.1
140°	994.5	993.2	991.9	990.1	987.7	985.3	983.0	980.7	983.0	985.3	987.7
142.5°	1031.0	1030.1	1029.2	1027.5	1025.2	1022.9	1020.6	1018.2	1020.6	1022.9	1025.2
145°	1084.3	1082.7	1081.2	1079.4	1077.6	1075.8	1074.0	1072.2	1074.0	1075.8	1077.6
147.5°	1132.8	1131.7	1130.6	1129.0	1126.8	1124.6	1122.5	1120.2	1122.5	1124.6	1126.8
150°	1162.8	1161.7	1160.6	1159.3	1157.8	1156.2	1154.7	1153.1	1154.7	1156.2	1157.8
152.5°	1192.3	1191.1	1189.8	1188.4	1186.9	1185.3	1183.8	1182.1	1183.8	1185.3	1186.9
155°	1231.3	1230.5	1229.7	1229.0	1228.2	1227.4	1226.6	1225.9	1226.6	1227.4	1228.2
157.5°	1266.7	1266.2	1265.7	1265.3	1264.7	1264.1	1263.6	1263.1	1263.6	1264.1	1264.7
160°	1288.7	1288.4	1288.1	1287.8	1287.2	1286.7	1286.2	1285.7	1286.2	1286.7	1287.2
162.5°	1307.4	1307.2	1306.9	1306.8	1306.6	1306.5	1306.4	1306.3	1306.4	1306.5	1306.6
165°	1332.6	1332.6	1332.6	1332.7	1332.9	1333.2	1333.5	1333.7	1333.5	1333.2	1332.9
167.5°	1353.1	1353.1	1353.2	1353.6	1354.4	1355.1	1355.9	1356.8	1355.9	1355.1	1354.4
170°	1364.7	1365.0	1365.3	1365.8	1366.5	1367.4	1368.2	1369.0	1368.2	1367.4	1366.5
172.5°	1373.2	1373.5	1373.7	1374.2	1375.0	1375.8	1376.6	1377.4	1376.6	1375.8	1375.0
175°	1382.9	1383.4	1383.9	1384.6	1385.3	1386.1	1386.9	1387.8	1386.9	1386.1	1385.3
177.5°	1388.1	1388.5	1388.9	1389.5	1390.1	1390.7	1391.3	1391.9	1391.3	1390.7	1390.1
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2195.6	2191.3	2183.2	2170.8	2163.4	2150.4	2141.7	2146.7	2148.0	2146.7	2145.5
5°	2136.7	2120.4	2098.0	2076.3	2056.2	2034.5	2022.2	2016.7	2005.9	1999.6	1996.6
7.5°	2065.3	2037.3	2005.6	1967.8	1935.7	1902.2	1885.0	1876.4	1854.3	1842.3	1831.7
10°	2012.1	1967.9	1936.2	1886.7	1856.5	1812.4	1782.2	1783.0	1752.8	1735.8	1723.4
12.5°	1953.3	1904.8	1852.0	1807.5	1765.5	1730.1	1693.6	1679.0	1647.0	1630.5	1597.1
15°	1855.7	1799.3	1743.5	1683.1	1640.6	1585.7	1533.1	1468.8	1416.9	1372.1	1359.7
17.5°	1749.3	1679.3	1623.5	1552.6	1479.7	1387.3	1326.3	1289.0	1257.7	1234.1	1216.4
20°	1676.2	1605.0	1545.4	1438.7	1340.3	1277.7	1232.7	1204.2	1171.6	1146.1	1132.2
22.5°	1599.4	1525.1	1443.9	1324.7	1248.1	1197.8	1157.8	1124.9	1102.9	1083.0	1070.3
25°	1490.5	1409.2	1275.4	1193.3	1131.4	1078.7	1050.9	1030.8	1007.5	980.5	968.2
27.5°	1375.3	1246.1	1149.9	1088.9	1029.9	995.6	970.6	940.6	919.8	907.6	894.7
30°	1289.3	1160.0	1085.0	1018.4	976.6	938.7	909.3	892.3	872.1	851.2	842.7
32.5°	1193.3	1090.0	1018.1	962.7	920.3	888.0	864.7	837.2	822.6	809.8	791.9
35°	1074.1	995.9	930.2	885.3	845.1	818.8	791.6	775.4	749.1	738.3	731.3
37.5°	973.2	905.4	856.4	809.0	777.1	748.0	731.4	705.6	694.2	679.1	664.5
40°	916.3	849.7	802.5	763.8	728.2	706.5	685.6	664.8	647.7	640.8	623.0
42.5°	858.1	803.9	756.7	714.3	690.4	667.5	641.1	625.7	608.1	596.8	585.8
45°	777.7	729.7	689.5	654.7	628.3	604.4	587.3	561.8	551.8	529.4	520.1
47.5°	707.2	662.6	624.2	591.1	565.4	549.8	524.8	504.8	488.8	475.0	463.1
50°	657.0	619.9	582.7	553.3	530.1	507.7	482.1	472.0	447.3	440.3	433.3
52.5°	611.2	575.9	541.9	513.1	489.9	468.1	445.6	432.4	415.8	408.8	403.6
55°	547.1	513.1	480.6	455.0	431.8	409.4	395.5	379.2	371.4	366.1	359.8
57.5°	482.7	452.1	427.2	401.3	378.0	360.1	344.1	334.3	326.3	319.1	311.7
60°	441.9	412.4	390.0	366.1	342.0	327.3	315.0	303.4	294.1	283.3	280.1
62.5°	398.5	372.8	352.2	328.9	308.0	294.6	282.8	271.8	260.6	244.9	240.5
65°	338.9	318.8	297.2	277.8	259.2	246.1	229.0	216.7	212.1	210.5	209.7
67.5°	285.1	266.1	247.5	227.6	210.8	198.5	190.0	188.0	184.8	183.9	181.7
70°	249.2	231.4	212.8	194.2	178.0	175.7	172.6	169.5	165.6	164.1	162.5
72.5°	217.0	198.5	180.0	165.1	158.1	155.2	152.2	149.1	146.4	144.9	143.9
75°	166.4	149.4	136.9	131.6	127.6	125.3	120.7	118.4	116.8	114.5	113.7
77.5°	119.8	110.2	104.5	101.1	97.0	94.5	91.9	89.6	88.0	87.5	86.2
80°	91.3	86.6	82.8	78.2	76.6	73.5	72.7	70.4	71.2	68.9	68.9
82.5°	70.9	65.0	61.8	59.6	58.1	55.5	54.8	53.7	53.8	52.1	52.1
85°	36.4	34.8	33.3	31.7	31.7	29.4	30.2	29.4	29.4	27.9	27.1
87.5°	14.5	14.7	14.6	15.9	17.0	17.5	17.4	16.7	16.6	16.5	15.9
90°	13.7	18.1	23.8	29.6	35.3	41.1	40.5	40.0	39.5	39.0	38.9
92.5°	30.1	31.9	33.2	34.6	36.0	37.3	37.4	37.5	37.6	37.8	37.8
95°	71.4	73.0	73.5	74.0	74.5	75.0	75.0	75.0	75.0	75.0	74.8
97.5°	120.6	122.3	123.2	124.2	125.2	126.2	126.2	126.2	126.2	126.2	126.2
100°	157.3	158.8	159.6	160.3	161.1	161.9	161.9	161.9	161.9	161.9	161.8
102.5°	195.1	196.4	197.4	198.3	199.3	200.4	200.6	200.8	201.0	201.2	201.2
105°	255.3	256.0	256.5	257.0	257.5	258.0	258.6	259.1	259.6	260.1	260.4
107.5°	321.0	321.6	321.6	321.6	321.6	321.6	321.8	322.0	322.2	322.4	321.9
110°	364.1	364.9	364.9	364.9	364.9	364.9	364.9	364.9	364.9	364.9	364.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	409.1	409.8	409.5	409.3	409.1	408.9	408.3	407.7	407.1	406.5	405.9
115°	475.4	475.9	475.4	474.9	474.4	473.9	473.6	473.4	473.1	472.8	472.3
117.5°	543.7	544.0	542.6	541.1	539.7	538.2	537.6	536.9	536.3	535.7	535.0
120°	587.8	587.8	585.7	583.7	581.6	579.5	579.5	579.5	579.5	579.5	579.1
122.5°	629.9	630.4	628.9	627.4	626.0	624.5	623.9	623.3	622.7	622.0	621.5
125°	692.1	692.9	692.1	691.4	690.5	689.7	688.9	688.2	687.4	686.6	686.1
127.5°	755.8	756.9	755.9	755.0	754.1	753.1	752.1	751.2	750.2	749.3	748.4
130°	796.0	797.4	796.9	796.4	795.9	795.4	794.8	794.3	793.8	793.2	792.4
132.5°	836.7	838.1	838.2	838.3	838.4	838.5	837.4	836.2	835.1	833.9	832.9
135°	894.7	896.5	897.0	897.5	898.1	898.6	898.3	898.1	897.8	897.5	897.0
137.5°	953.4	954.9	955.6	956.3	956.9	957.7	957.5	957.3	957.0	956.8	956.2
140°	990.1	991.9	993.2	994.5	995.8	997.0	997.0	997.0	997.0	997.0	996.5
142.5°	1027.5	1029.2	1030.1	1031.0	1031.9	1032.8	1033.0	1033.2	1033.4	1033.6	1033.2
145°	1079.4	1081.2	1082.7	1084.3	1085.8	1087.4	1087.6	1087.9	1088.2	1088.4	1088.0
147.5°	1129.0	1130.6	1131.7	1132.8	1133.8	1134.8	1135.4	1136.0	1136.5	1137.1	1136.9
150°	1159.3	1160.6	1161.7	1162.8	1163.8	1164.9	1165.6	1166.4	1167.2	1168.0	1168.0
152.5°	1188.4	1189.8	1191.1	1192.3	1193.7	1194.9	1195.9	1196.9	1197.8	1198.8	1198.8
155°	1229.0	1229.7	1230.5	1231.3	1232.1	1232.8	1234.2	1235.5	1236.8	1238.1	1238.3
157.5°	1265.3	1265.7	1266.2	1266.7	1267.1	1267.6	1269.4	1271.1	1272.9	1274.7	1275.0
160°	1287.8	1288.1	1288.4	1288.7	1288.9	1289.2	1290.7	1292.3	1293.8	1295.5	1295.7
162.5°	1306.8	1306.9	1307.2	1307.4	1307.7	1308.0	1309.7	1311.5	1313.2	1315.0	1315.2
165°	1332.7	1332.6	1332.6	1332.6	1332.6	1332.6	1334.4	1336.3	1338.1	1339.9	1340.1
167.5°	1353.6	1353.2	1353.1	1353.1	1353.0	1353.0	1354.8	1356.7	1358.5	1360.3	1360.5
170°	1365.8	1365.3	1365.0	1364.7	1364.5	1364.2	1366.0	1367.9	1369.7	1371.5	1371.7
172.5°	1374.2	1373.7	1373.5	1373.2	1372.9	1372.7	1374.5	1376.3	1378.2	1380.0	1380.1
175°	1384.6	1383.9	1383.4	1382.9	1382.4	1381.8	1383.7	1385.5	1387.4	1389.2	1389.3
177.5°	1389.5	1388.9	1388.5	1388.1	1387.7	1387.3	1388.5	1389.8	1391.0	1392.2	1392.2
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2138.7	2139.9	2138.1	2139.3	2138.1	2139.9	2138.7	2145.5	2146.7	2148.0	2146.7
5°	1992.7	1983.4	1981.9	1979.5	1981.9	1983.4	1992.7	1996.6	1999.6	2005.9	2016.7
7.5°	1818.5	1817.1	1813.2	1807.8	1813.2	1817.1	1818.5	1831.7	1842.3	1854.3	1876.4
10°	1706.4	1702.5	1701.7	1696.3	1701.7	1702.5	1706.4	1723.4	1735.8	1752.8	1783.0
12.5°	1575.1	1550.2	1547.6	1534.1	1547.6	1550.2	1575.1	1597.1	1630.5	1647.0	1679.0
15°	1341.1	1336.5	1321.0	1310.9	1321.0	1336.5	1341.1	1359.7	1372.1	1416.9	1468.8
17.5°	1207.4	1192.2	1187.4	1185.3	1187.4	1192.2	1207.4	1216.4	1234.1	1257.7	1289.0
20°	1121.4	1107.4	1105.1	1103.6	1105.1	1107.4	1121.4	1132.2	1146.1	1171.6	1204.2
22.5°	1061.9	1047.3	1041.3	1036.6	1041.3	1047.3	1061.9	1070.3	1083.0	1102.9	1124.9
25°	960.4	954.9	951.9	950.3	951.9	954.9	960.4	968.2	980.5	1007.5	1030.8
27.5°	881.0	869.1	866.8	862.7	866.8	869.1	881.0	894.7	907.6	919.8	940.6
30°	835.8	831.9	826.5	821.8	826.5	831.9	835.8	842.7	851.2	872.1	892.3
32.5°	782.5	779.3	774.5	772.3	774.5	779.3	782.5	791.9	809.8	822.6	837.2
35°	723.6	712.8	708.1	701.1	708.1	712.8	723.6	731.3	738.3	749.1	775.4
37.5°	661.2	655.5	648.9	651.3	648.9	655.5	661.2	664.5	679.1	694.2	705.6
40°	612.9	609.0	607.5	606.7	607.5	609.0	612.9	623.0	640.8	647.7	664.8
42.5°	574.5	563.8	559.8	559.7	559.8	563.8	574.5	585.8	596.8	608.1	625.7
45°	516.1	506.1	499.2	499.9	499.2	506.1	516.1	520.1	529.4	551.8	561.8
47.5°	456.5	456.2	451.8	453.1	451.8	456.2	456.5	463.1	475.0	488.8	504.8
50°	428.0	423.3	420.2	421.0	420.2	423.3	428.0	433.3	440.3	447.3	472.0
52.5°	400.7	396.7	394.3	397.5	394.3	396.7	400.7	403.6	408.8	415.8	432.4
55°	356.0	351.3	350.5	349.8	350.5	351.3	356.0	359.8	366.1	371.4	379.2
57.5°	306.0	302.9	298.2	296.2	298.2	302.9	306.0	311.7	319.1	326.3	334.3
60°	270.0	263.9	256.1	255.4	256.1	263.9	270.0	280.1	283.3	294.1	303.4
62.5°	237.2	236.0	234.5	234.3	234.5	236.0	237.2	240.5	244.9	260.6	271.8
65°	208.1	207.4	208.1	208.9	208.1	207.4	208.1	209.7	210.5	212.1	216.7
67.5°	181.4	180.0	178.6	179.3	178.6	180.0	181.4	181.7	183.9	184.8	188.0
70°	161.0	160.2	159.5	159.5	159.5	160.2	161.0	162.5	164.1	165.6	169.5
72.5°	141.2	141.0	140.3	139.6	140.3	141.0	141.2	143.9	144.9	146.4	149.1
75°	113.0	111.4	111.4	111.4	111.4	111.4	113.0	113.7	114.5	116.8	118.4
77.5°	86.0	85.2	84.5	83.9	84.5	85.2	86.0	86.2	87.5	88.0	89.6
80°	68.1	67.4	66.6	66.6	66.6	67.4	68.1	68.9	68.9	71.2	70.4
82.5°	52.0	51.2	51.1	50.5	51.1	51.2	52.0	52.1	52.1	53.8	53.7
85°	27.9	28.7	27.9	29.4	27.9	28.7	27.9	27.1	27.9	29.4	29.4
87.5°	15.9	15.3	16.0	15.5	16.0	15.3	15.9	15.9	16.5	16.6	16.7
90°	39.1	39.4	39.6	39.9	39.6	39.4	39.1	38.9	39.0	39.5	40.0
92.5°	37.9	37.9	38.0	38.0	38.0	37.9	37.9	37.8	37.8	37.6	37.5
95°	74.3	73.8	73.2	72.7	73.2	73.8	74.3	74.8	75.0	75.0	75.0
97.5°	126.1	126.1	126.0	126.0	126.0	126.1	126.1	126.2	126.2	126.2	126.2
100°	161.5	161.3	161.0	160.7	161.0	161.3	161.5	161.8	161.9	161.9	161.9
102.5°	200.9	200.7	200.4	200.2	200.4	200.7	200.9	201.2	201.2	201.0	200.8
105°	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.1	259.6	259.1
107.5°	320.8	319.6	318.4	317.2	318.4	319.6	320.8	321.9	322.4	322.2	322.0
110°	363.7	362.8	362.0	361.3	362.0	362.8	363.7	364.5	364.9	364.9	364.9



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	405.3	404.7	404.1	403.5	404.1	404.7	405.3	405.9	406.5	407.1	407.7
115°	471.6	470.8	470.0	469.2	470.0	470.8	471.6	472.3	472.8	473.1	473.4
117.5°	534.2	533.4	532.6	531.9	532.6	533.4	534.2	535.0	535.7	536.3	536.9
120°	578.3	577.5	576.7	575.9	576.7	577.5	578.3	579.1	579.5	579.5	579.5
122.5°	620.9	620.3	619.8	619.1	619.8	620.3	620.9	621.5	622.0	622.7	623.3
125°	685.8	685.6	685.3	685.1	685.3	685.6	685.8	686.1	686.6	687.4	688.2
127.5°	747.6	746.8	746.0	745.1	746.0	746.8	747.6	748.4	749.3	750.2	751.2
130°	791.4	790.3	789.3	788.3	789.3	790.3	791.4	792.4	793.2	793.8	794.3
132.5°	832.1	831.2	830.4	829.6	830.4	831.2	832.1	832.9	833.9	835.1	836.2
135°	896.2	895.4	894.6	893.8	894.6	895.4	896.2	897.0	897.5	897.8	898.1
137.5°	955.1	954.1	953.1	952.0	953.1	954.1	955.1	956.2	956.8	957.0	957.3
140°	995.5	994.5	993.4	992.4	993.4	994.5	995.5	996.5	997.0	997.0	997.0
142.5°	1032.1	1031.1	1030.1	1029.0	1030.1	1031.1	1032.1	1033.2	1033.6	1033.4	1033.2
145°	1087.0	1086.0	1084.9	1083.9	1084.9	1086.0	1087.0	1088.0	1088.4	1088.2	1087.9
147.5°	1135.9	1134.9	1133.9	1133.0	1133.9	1134.9	1135.9	1136.9	1137.1	1136.5	1136.0
150°	1167.2	1166.4	1165.6	1164.9	1165.6	1166.4	1167.2	1168.0	1168.0	1167.2	1166.4
152.5°	1197.8	1196.9	1195.9	1194.9	1195.9	1196.9	1197.8	1198.8	1198.8	1197.8	1196.9
155°	1237.6	1236.8	1236.0	1235.2	1236.0	1236.8	1237.6	1238.3	1238.1	1236.8	1235.5
157.5°	1273.6	1272.4	1271.2	1269.9	1271.2	1272.4	1273.6	1275.0	1274.7	1272.9	1271.1
160°	1294.6	1293.6	1292.5	1291.5	1292.5	1293.6	1294.6	1295.7	1295.5	1293.8	1292.3
162.5°	1314.0	1312.8	1311.5	1310.3	1311.5	1312.8	1314.0	1315.2	1315.0	1313.2	1311.5
165°	1338.9	1337.6	1336.3	1334.9	1336.3	1337.6	1338.9	1340.1	1339.9	1338.1	1336.3
167.5°	1359.2	1357.8	1356.5	1355.1	1356.5	1357.8	1359.2	1360.5	1360.3	1358.5	1356.7
170°	1370.1	1368.6	1367.0	1365.4	1367.0	1368.6	1370.1	1371.7	1371.5	1369.7	1367.9
172.5°	1378.6	1377.0	1375.4	1373.8	1375.4	1377.0	1378.6	1380.1	1380.0	1378.2	1376.3
175°	1387.8	1386.1	1384.6	1383.0	1384.6	1386.1	1387.8	1389.3	1389.2	1387.4	1385.5
177.5°	1391.0	1389.8	1388.5	1387.3	1388.5	1389.8	1391.0	1392.2	1392.2	1391.0	1389.8
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2141.7	2150.4	2163.4	2170.8	2183.2	2191.3	2195.6	2203.6	2208.0	2223.5	2239.6
5°	2022.2	2034.5	2056.2	2076.3	2098.0	2120.4	2136.7	2155.3	2172.2	2201.6	2232.6
7.5°	1885.0	1902.2	1935.7	1967.8	2005.6	2037.3	2065.3	2097.0	2125.4	2167.5	2211.4
10°	1782.2	1812.4	1856.5	1886.7	1936.2	1967.9	2012.1	2046.9	2086.4	2142.0	2191.6
12.5°	1693.6	1730.1	1765.5	1807.5	1852.0	1904.8	1953.3	1998.0	2044.9	2102.4	2160.6
15°	1533.1	1585.7	1640.6	1683.1	1743.5	1799.3	1855.7	1916.1	1973.4	2042.3	2118.1
17.5°	1326.3	1387.3	1479.7	1552.6	1623.5	1679.3	1749.3	1822.3	1889.8	1972.9	2057.3
20°	1232.7	1277.7	1340.3	1438.7	1545.4	1605.0	1676.2	1756.7	1834.0	1924.6	2015.2
22.5°	1157.8	1197.8	1248.1	1324.7	1443.9	1525.1	1599.4	1681.1	1770.9	1863.3	1963.8
25°	1050.9	1078.7	1131.4	1193.3	1275.4	1409.2	1490.5	1572.5	1670.0	1769.1	1883.6
27.5°	970.6	995.6	1029.9	1088.9	1149.9	1246.1	1375.3	1464.8	1562.0	1673.4	1792.3
30°	909.3	938.7	976.6	1018.4	1085.0	1160.0	1289.3	1393.0	1488.9	1603.5	1730.4
32.5°	864.7	888.0	920.3	962.7	1018.1	1090.0	1193.3	1319.3	1412.8	1533.5	1666.0
35°	791.6	818.8	845.1	885.3	930.2	995.9	1074.1	1208.8	1301.6	1420.8	1553.9
37.5°	731.4	748.0	777.1	809.0	856.4	905.4	973.2	1094.0	1194.4	1311.4	1447.6
40°	685.6	706.5	728.2	763.8	802.5	849.7	916.3	1006.0	1121.4	1235.9	1369.0
42.5°	641.1	667.5	690.4	714.3	756.7	803.9	858.1	934.2	1052.0	1160.3	1289.7
45°	587.3	604.4	628.3	654.7	689.5	729.7	777.7	844.2	957.3	1050.9	1172.5
47.5°	524.8	549.8	565.4	591.1	624.2	662.6	707.2	764.8	856.2	943.9	1056.6
50°	482.1	507.7	530.1	553.3	582.7	619.9	657.0	712.8	786.3	878.4	983.6
52.5°	445.6	468.1	489.9	513.1	541.9	575.9	611.2	660.1	723.1	807.8	909.9
55°	395.5	409.4	431.8	455.0	480.6	513.1	547.1	588.1	642.3	713.5	796.3
57.5°	344.1	360.1	378.0	401.3	427.2	452.1	482.7	519.9	562.6	627.0	697.9
60°	315.0	327.3	342.0	366.1	390.0	412.4	441.9	472.8	513.1	568.8	629.1
62.5°	282.8	294.6	308.0	328.9	352.2	372.8	398.5	431.3	465.4	516.1	569.1
65°	229.0	246.1	259.2	277.8	297.2	318.8	338.9	365.3	395.5	435.7	482.9
67.5°	190.0	198.5	210.8	227.6	247.5	266.1	285.1	305.7	331.8	362.9	400.4
70°	172.6	175.7	178.0	194.2	212.8	231.4	249.2	268.5	290.9	316.5	349.0
72.5°	152.2	155.2	158.1	165.1	180.0	198.5	217.0	231.4	252.6	273.8	300.1
75°	120.7	125.3	127.6	131.6	136.9	149.4	166.4	180.3	192.7	208.9	229.8
77.5°	91.9	94.5	97.0	101.1	104.5	110.2	119.8	132.3	143.9	153.4	167.7
80°	72.7	73.5	76.6	78.2	82.8	86.6	91.3	101.4	113.0	116.8	126.9
82.5°	54.8	55.5	58.1	59.6	61.8	65.0	70.9	73.5	82.6	87.8	94.1
85°	30.2	29.4	31.7	31.7	33.3	34.8	36.4	40.2	42.5	48.8	50.3
87.5°	17.4	17.5	17.0	15.9	14.6	14.7	14.5	14.5	15.1	16.4	18.2
90°	40.5	41.1	35.3	29.6	23.8	18.1	13.7	10.6	7.5	4.3	1.2
92.5°	37.4	37.3	36.0	34.6	33.2	31.9	30.1	27.8	25.4	23.1	20.9
95°	75.0	75.0	74.5	74.0	73.5	73.0	71.4	68.8	66.2	63.6	61.0
97.5°	126.2	126.2	125.2	124.2	123.2	122.3	120.6	118.4	116.0	113.7	111.5
100°	161.9	161.9	161.1	160.3	159.6	158.8	157.3	155.2	153.2	151.1	149.0
102.5°	200.6	200.4	199.3	198.3	197.4	196.4	195.1	193.4	191.8	190.1	188.4
105°	258.6	258.0	257.5	257.0	256.5	256.0	255.3	254.6	253.8	253.0	252.2
107.5°	321.8	321.6	321.6	321.6	321.6	321.6	321.0	319.9	318.8	317.6	316.5
110°	364.9	364.9	364.9	364.9	364.9	364.9	364.1	362.4	360.9	359.3	357.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	408.3	408.9	409.1	409.3	409.5	409.8	409.1	407.5	406.0	404.3	402.8
115°	473.6	473.9	474.4	474.9	475.4	475.9	475.4	473.9	472.3	470.8	469.2
117.5°	537.6	538.2	539.7	541.1	542.6	544.0	543.7	541.6	539.6	537.5	535.3
120°	579.5	579.5	581.6	583.7	585.7	587.8	587.8	585.7	583.7	581.6	579.5
122.5°	623.9	624.5	626.0	627.4	628.9	630.4	629.9	627.3	624.8	622.4	619.9
125°	688.9	689.7	690.5	691.4	692.1	692.9	692.1	689.7	687.4	685.1	682.7
127.5°	752.1	753.1	754.1	755.0	755.9	756.9	755.8	752.9	749.9	746.9	744.0
130°	794.8	795.4	795.9	796.4	796.9	797.4	796.0	792.5	789.2	785.8	782.4
132.5°	837.4	838.5	838.4	838.3	838.2	838.1	836.7	833.8	831.1	828.4	825.6
135°	898.3	898.6	898.1	897.5	897.0	896.5	894.7	891.9	889.1	886.2	883.3
137.5°	957.5	957.7	956.9	956.3	955.6	954.9	953.4	951.1	948.8	946.4	944.0
140°	997.0	997.0	995.8	994.5	993.2	991.9	990.1	987.7	985.3	983.0	980.7
142.5°	1033.0	1032.8	1031.9	1031.0	1030.1	1029.2	1027.5	1025.2	1022.9	1020.6	1018.2
145°	1087.6	1087.4	1085.8	1084.3	1082.7	1081.2	1079.4	1077.6	1075.8	1074.0	1072.2
147.5°	1135.4	1134.8	1133.8	1132.8	1131.7	1130.6	1129.0	1126.8	1124.6	1122.5	1120.2
150°	1165.6	1164.9	1163.8	1162.8	1161.7	1160.6	1159.3	1157.8	1156.2	1154.7	1153.1
152.5°	1195.9	1194.9	1193.7	1192.3	1191.1	1189.8	1188.4	1186.9	1185.3	1183.8	1182.1
155°	1234.2	1232.8	1232.1	1231.3	1230.5	1229.7	1229.0	1228.2	1227.4	1226.6	1225.9
157.5°	1269.4	1267.6	1267.1	1266.7	1266.2	1265.7	1265.3	1264.7	1264.1	1263.6	1263.1
160°	1290.7	1289.2	1288.9	1288.7	1288.4	1288.1	1287.8	1287.2	1286.7	1286.2	1285.7
162.5°	1309.7	1308.0	1307.7	1307.4	1307.2	1306.9	1306.8	1306.6	1306.5	1306.4	1306.3
165°	1334.4	1332.6	1332.6	1332.6	1332.6	1332.6	1332.7	1332.9	1333.2	1333.5	1333.7
167.5°	1354.8	1353.0	1353.0	1353.1	1353.1	1353.2	1353.6	1354.4	1355.1	1355.9	1356.8
170°	1366.0	1364.2	1364.5	1364.7	1365.0	1365.3	1365.8	1366.5	1367.4	1368.2	1369.0
172.5°	1374.5	1372.7	1372.9	1373.2	1373.5	1373.7	1374.2	1375.0	1375.8	1376.6	1377.4
175°	1383.7	1381.8	1382.4	1382.9	1383.4	1383.9	1384.6	1385.3	1386.1	1386.9	1387.8
177.5°	1388.5	1387.3	1387.7	1388.1	1388.5	1388.9	1389.5	1390.1	1390.7	1391.3	1391.9
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2240.2	2242.0	2254.4	2260.0	2271.2	2275.4	2280.5	2279.2	2279.2	2281.7	2299.0
5°	2245.0	2260.5	2283.7	2306.1	2327.8	2346.3	2358.7	2371.2	2375.8	2398.2	2418.3
7.5°	2237.0	2265.4	2303.8	2338.0	2379.0	2411.1	2437.7	2461.6	2478.1	2510.7	2544.2
10°	2226.4	2266.6	2310.0	2354.1	2410.5	2453.2	2496.5	2529.8	2540.6	2589.4	2617.3
12.5°	2205.3	2259.3	2314.3	2371.5	2426.7	2485.4	2533.0	2566.3	2604.3	2648.2	2699.6
15°	2173.8	2235.7	2307.6	2381.2	2460.1	2531.3	2582.4	2640.4	2682.2	2730.2	2775.1
17.5°	2128.5	2208.2	2299.7	2384.8	2476.1	2552.5	2622.8	2678.5	2708.0	2735.3	2742.0
20°	2092.5	2178.5	2286.0	2386.6	2477.9	2566.2	2635.7	2682.2	2690.0	2690.7	2649.7
22.5°	2053.6	2150.6	2263.1	2366.2	2475.5	2573.5	2627.8	2647.6	2616.9	2564.5	2485.1
25°	1981.9	2094.1	2224.8	2342.5	2461.6	2554.6	2573.1	2538.3	2430.7	2317.7	2174.5
27.5°	1904.2	2030.3	2170.5	2301.3	2428.2	2485.8	2445.7	2320.2	2126.5	1958.0	1753.9
30°	1847.2	1988.8	2126.6	2272.8	2390.5	2415.2	2323.2	2138.2	1912.2	1658.4	1454.9
32.5°	1782.2	1930.7	2082.0	2233.2	2331.7	2307.5	2155.4	1927.7	1662.7	1413.2	1220.8
35°	1689.3	1842.6	2005.9	2157.6	2220.2	2115.8	1888.2	1591.9	1321.0	1088.0	955.7
37.5°	1582.1	1749.0	1918.7	2058.0	2053.6	1879.5	1569.5	1263.5	1035.9	898.2	803.9
40°	1505.9	1674.7	1858.1	1975.7	1925.4	1698.6	1362.8	1074.1	907.8	797.9	729.0
42.5°	1432.9	1602.3	1784.4	1877.8	1790.4	1511.7	1177.1	950.9	813.6	727.9	672.1
45°	1308.6	1487.3	1656.1	1707.9	1551.6	1244.4	951.9	787.8	696.5	633.0	594.3
47.5°	1187.1	1362.9	1516.9	1517.8	1306.5	1009.2	802.9	681.8	603.8	554.7	526.5
50°	1112.8	1280.0	1409.2	1389.1	1149.2	897.7	718.1	613.7	548.7	510.8	481.3
52.5°	1029.3	1191.4	1303.3	1246.1	1016.1	789.9	642.0	554.2	500.4	467.4	441.1
55°	907.8	1051.7	1130.6	1043.9	828.8	657.0	542.5	473.6	433.3	405.5	383.0
57.5°	788.4	907.2	956.8	855.9	682.7	544.8	458.9	407.2	367.3	347.3	335.7
60°	713.5	814.9	849.7	738.3	593.6	476.7	406.3	358.3	328.9	315.8	304.2
62.5°	639.9	722.7	737.0	634.9	517.5	417.3	356.8	316.2	296.7	284.2	273.2
65°	530.9	590.5	583.5	501.5	409.4	331.2	287.1	262.4	247.6	229.8	210.5
67.5°	437.1	473.4	451.5	390.0	312.5	257.4	228.6	209.8	191.6	174.7	170.3
70°	377.7	398.5	375.4	318.8	256.1	215.9	192.7	170.3	159.5	155.5	148.6
72.5°	320.7	328.0	302.9	254.5	208.4	178.7	156.1	143.6	137.7	134.5	130.0
75°	240.7	235.3	213.6	175.7	144.7	124.6	117.6	113.0	109.1	106.0	103.7
77.5°	169.1	161.1	141.8	117.0	100.8	91.2	86.9	84.5	82.6	81.1	78.8
80°	126.9	121.5	102.2	83.6	76.6	72.0	69.7	66.6	66.6	65.0	62.7
82.5°	92.9	86.8	70.0	61.3	57.5	54.6	52.9	51.1	50.5	50.8	49.1
85°	48.8	39.5	34.8	33.3	31.0	29.4	30.2	28.7	28.7	28.7	27.9
87.5°	15.8	13.2	13.2	13.2	14.7	16.0	16.5	17.6	19.4	18.6	19.2
90°	4.3	7.5	10.6	13.7	18.1	23.8	29.6	35.3	41.1	40.5	40.0
92.5°	23.1	25.4	27.8	30.1	31.9	33.2	34.6	36.0	37.3	37.4	37.5
95°	63.6	66.2	68.8	71.4	73.0	73.5	74.0	74.5	75.0	75.0	75.0
97.5°	113.7	116.0	118.4	120.6	122.3	123.2	124.2	125.2	126.2	126.2	126.2
100°	151.1	153.2	155.2	157.3	158.8	159.6	160.3	161.1	161.9	161.9	161.9
102.5°	190.1	191.8	193.4	195.1	196.4	197.4	198.3	199.3	200.4	200.6	200.8
105°	253.0	253.8	254.6	255.3	256.0	256.5	257.0	257.5	258.0	258.6	259.1
107.5°	317.6	318.8	319.9	321.0	321.6	321.6	321.6	321.6	321.6	321.8	322.0
110°	359.3	360.9	362.4	364.1	364.9	364.9	364.9	364.9	364.9	364.9	364.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	404.3	406.0	407.5	409.1	409.8	409.5	409.3	409.1	408.9	408.3	407.7
115°	470.8	472.3	473.9	475.4	475.9	475.4	474.9	474.4	473.9	473.6	473.4
117.5°	537.5	539.6	541.6	543.7	544.0	542.6	541.1	539.7	538.2	537.6	536.9
120°	581.6	583.7	585.7	587.8	587.8	585.7	583.7	581.6	579.5	579.5	579.5
122.5°	622.4	624.8	627.3	629.9	630.4	628.9	627.4	626.0	624.5	623.9	623.3
125°	685.1	687.4	689.7	692.1	692.9	692.1	691.4	690.5	689.7	688.9	688.2
127.5°	746.9	749.9	752.9	755.8	756.9	755.9	755.0	754.1	753.1	752.1	751.2
130°	785.8	789.2	792.5	796.0	797.4	796.9	796.4	795.9	795.4	794.8	794.3
132.5°	828.4	831.1	833.8	836.7	838.1	838.2	838.3	838.4	838.5	837.4	836.2
135°	886.2	889.1	891.9	894.7	896.5	897.0	897.5	898.1	898.6	898.3	898.1
137.5°	946.4	948.8	951.1	953.4	954.9	955.6	956.3	956.9	957.7	957.5	957.3
140°	983.0	985.3	987.7	990.1	991.9	993.2	994.5	995.8	997.0	997.0	997.0
142.5°	1020.6	1022.9	1025.2	1027.5	1029.2	1030.1	1031.0	1031.9	1032.8	1033.0	1033.2
145°	1074.0	1075.8	1077.6	1079.4	1081.2	1082.7	1084.3	1085.8	1087.4	1087.6	1087.9
147.5°	1122.5	1124.6	1126.8	1129.0	1130.6	1131.7	1132.8	1133.8	1134.8	1135.4	1136.0
150°	1154.7	1156.2	1157.8	1159.3	1160.6	1161.7	1162.8	1163.8	1164.9	1165.6	1166.4
152.5°	1183.8	1185.3	1186.9	1188.4	1189.8	1191.1	1192.3	1193.7	1194.9	1195.9	1196.9
155°	1226.6	1227.4	1228.2	1229.0	1229.7	1230.5	1231.3	1232.1	1232.8	1234.2	1235.5
157.5°	1263.6	1264.1	1264.7	1265.3	1265.7	1266.2	1266.7	1267.1	1267.6	1269.4	1271.1
160°	1286.2	1286.7	1287.2	1287.8	1288.1	1288.4	1288.7	1288.9	1289.2	1290.7	1292.3
162.5°	1306.4	1306.5	1306.6	1306.8	1306.9	1307.2	1307.4	1307.7	1308.0	1309.7	1311.5
165°	1333.5	1333.2	1332.9	1332.7	1332.6	1332.6	1332.6	1332.6	1332.6	1334.4	1336.3
167.5°	1355.9	1355.1	1354.4	1353.6	1353.2	1353.1	1353.1	1353.0	1353.0	1354.8	1356.7
170°	1368.2	1367.4	1366.5	1365.8	1365.3	1365.0	1364.7	1364.5	1364.2	1366.0	1367.9
172.5°	1376.6	1375.8	1375.0	1374.2	1373.7	1373.5	1373.2	1372.9	1372.7	1374.5	1376.3
175°	1386.9	1386.1	1385.3	1384.6	1383.9	1383.4	1382.9	1382.4	1381.8	1383.7	1385.5
177.5°	1391.3	1390.7	1390.1	1389.5	1388.9	1388.5	1388.1	1387.7	1387.3	1388.5	1389.8
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2305.2	2313.2	2316.9	2316.9	2321.3	2319.5	2317.5
5°	2437.7	2452.4	2455.5	2469.4	2479.4	2476.4	2477.9
7.5°	2569.4	2593.0	2616.5	2627.2	2628.8	2635.0	2637.4
10°	2650.5	2669.9	2706.2	2700.8	2727.8	2743.4	2717.8
12.5°	2728.5	2754.6	2779.9	2786.8	2802.2	2807.1	2797.0
15°	2799.0	2813.0	2814.6	2810.7	2815.3	2811.5	2796.7
17.5°	2733.1	2710.6	2664.7	2643.0	2625.9	2600.5	2590.3
20°	2624.1	2557.6	2480.2	2449.3	2412.9	2341.7	2358.7
22.5°	2388.9	2313.1	2235.7	2145.4	2102.1	2034.7	2030.6
25°	2022.9	1892.1	1748.2	1647.6	1588.7	1521.5	1492.0
27.5°	1572.8	1408.2	1290.2	1230.4	1176.1	1122.8	1120.5
30°	1276.9	1153.1	1061.8	1010.7	977.3	954.9	959.6
32.5°	1076.3	991.5	929.9	887.5	862.8	846.0	845.7
35°	879.9	821.8	782.3	764.6	746.8	734.4	735.2
37.5°	753.0	718.1	696.2	676.5	665.4	659.3	655.9
40°	687.9	659.3	642.3	630.7	621.4	612.9	611.4
42.5°	636.6	612.9	595.9	586.7	578.0	572.1	570.5
45°	564.9	545.5	530.1	520.1	516.1	510.8	510.8
47.5°	502.5	483.5	471.4	465.1	458.5	454.8	454.7
50°	460.5	445.8	434.9	431.0	425.7	423.3	422.5
52.5°	422.7	411.7	403.9	401.3	399.0	396.1	396.6
55°	371.4	365.3	362.1	359.8	356.0	351.3	354.5
57.5°	328.3	323.1	314.7	307.4	303.9	300.5	301.8
60°	297.9	287.1	276.3	267.7	265.4	258.4	258.4
62.5°	259.5	244.4	231.1	226.3	224.0	220.8	220.0
65°	199.7	193.5	190.4	187.2	185.7	185.7	184.2
67.5°	165.4	163.0	159.6	158.8	157.2	156.8	156.3
70°	146.2	143.2	141.6	140.9	139.3	140.1	137.7
72.5°	127.6	125.2	124.9	122.9	122.0	122.1	120.4
75°	100.6	100.6	99.9	99.1	97.6	96.7	97.6
77.5°	77.4	77.6	76.1	76.0	75.8	76.0	75.2
80°	61.9	62.7	61.9	61.1	60.4	61.1	60.4
82.5°	48.9	47.9	47.7	47.6	47.4	46.9	46.8
85°	27.9	28.7	27.9	27.1	27.1	27.1	27.9
87.5°	18.4	18.3	18.3	18.4	18.4	18.5	17.9
90°	39.5	39.0	38.9	39.1	39.4	39.6	39.9
92.5°	37.6	37.8	37.8	37.9	37.9	38.0	38.0
95°	75.0	75.0	74.8	74.3	73.8	73.2	72.7
97.5°	126.2	126.2	126.2	126.1	126.1	126.0	126.0
100°	161.9	161.9	161.8	161.5	161.3	161.0	160.7
102.5°	201.0	201.2	201.2	200.9	200.7	200.4	200.2
105°	259.6	260.1	260.4	260.4	260.4	260.4	260.4
107.5°	322.2	322.4	321.9	320.8	319.6	318.4	317.2
110°	364.9	364.9	364.5	363.7	362.8	362.0	361.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	407.1	406.5	405.9	405.3	404.7	404.1	403.5
115°	473.1	472.8	472.3	471.6	470.8	470.0	469.2
117.5°	536.3	535.7	535.0	534.2	533.4	532.6	531.9
120°	579.5	579.5	579.1	578.3	577.5	576.7	575.9
122.5°	622.7	622.0	621.5	620.9	620.3	619.8	619.1
125°	687.4	686.6	686.1	685.8	685.6	685.3	685.1
127.5°	750.2	749.3	748.4	747.6	746.8	746.0	745.1
130°	793.8	793.2	792.4	791.4	790.3	789.3	788.3
132.5°	835.1	833.9	832.9	832.1	831.2	830.4	829.6
135°	897.8	897.5	897.0	896.2	895.4	894.6	893.8
137.5°	957.0	956.8	956.2	955.1	954.1	953.1	952.0
140°	997.0	997.0	996.5	995.5	994.5	993.4	992.4
142.5°	1033.4	1033.6	1033.2	1032.1	1031.1	1030.1	1029.0
145°	1088.2	1088.4	1088.0	1087.0	1086.0	1084.9	1083.9
147.5°	1136.5	1137.1	1136.9	1135.9	1134.9	1133.9	1133.0
150°	1167.2	1168.0	1168.0	1167.2	1166.4	1165.6	1164.9
152.5°	1197.8	1198.8	1198.8	1197.8	1196.9	1195.9	1194.9
155°	1236.8	1238.1	1238.3	1237.6	1236.8	1236.0	1235.2
157.5°	1272.9	1274.7	1275.0	1273.6	1272.4	1271.2	1269.9
160°	1293.8	1295.5	1295.7	1294.6	1293.6	1292.5	1291.5
162.5°	1313.2	1315.0	1315.2	1314.0	1312.8	1311.5	1310.3
165°	1338.1	1339.9	1340.1	1338.9	1337.6	1336.3	1334.9
167.5°	1358.5	1360.3	1360.5	1359.2	1357.8	1356.5	1355.1
170°	1369.7	1371.5	1371.7	1370.1	1368.6	1367.0	1365.4
172.5°	1378.2	1380.0	1380.1	1378.6	1377.0	1375.4	1373.8
175°	1387.4	1389.2	1389.3	1387.8	1386.1	1384.6	1383.0
177.5°	1391.0	1392.2	1392.2	1391.0	1389.8	1388.5	1387.3
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1

(END OF REPORT)