

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: P332028-927

Luminaire Tested: **S123DIP-S1000D1025U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332028-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D1025U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6150.2 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

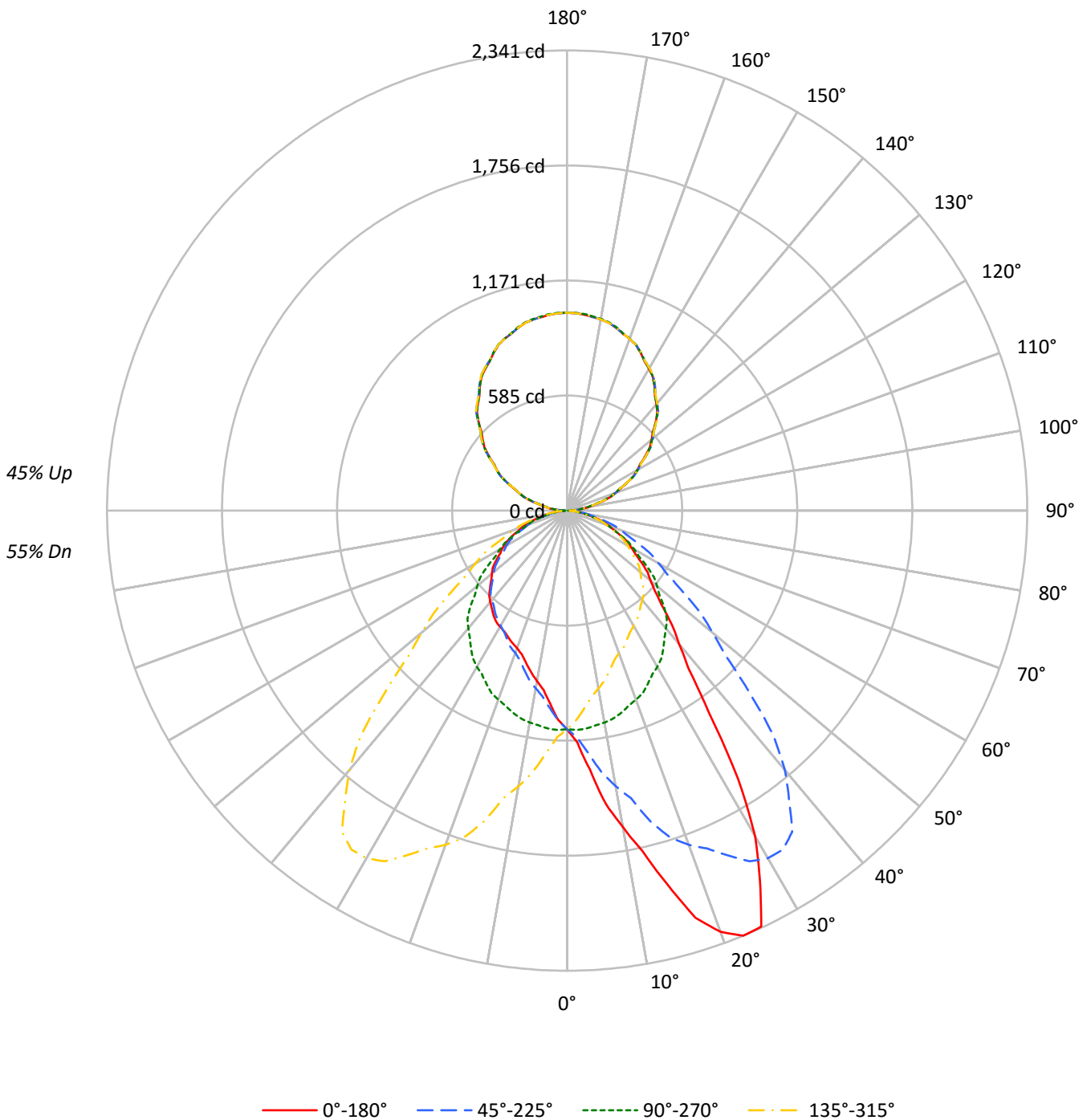
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	77	68	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	64	54	47	42	47	42	37	41	36	33	34	31	29	25
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	33	29	26	29	25	22	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11976	11976	11976	11976
5°	14282	12028	10659	12028
10°	17876	11967	9627	11967
15°	21926	11870	8963	11870
20°	26120	11720	8534	11720
25°	27736	11537	8438	11537
30°	23772	11404	8483	11404
35°	16533	11213	8571	11213
40°	12452	10991	8545	10991
45°	10339	10660	8435	10660
50°	9262	9984	8359	9984
55°	8659	9256	8255	9256
60°	8122	8495	8170	8495
65°	7636	7743	7908	7743
70°	7160	6889	7531	6889
75°	6413	6030	6904	6030
80°	5610	4947	5945	4947
85°	4397	3594	3989	3594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	1.8
10°-20°	351.5	5.7
20°-30°	589.8	9.6
30°-40°	667.9	10.9
40°-50°	598.9	9.7
50°-60°	483.3	7.9
60°-70°	336.8	5.5
70°-80°	177.0	2.9
80°-90°	46.3	0.8
90°-100°	65.6	1.1
100°-110°	196.3	3.2
110°-120°	333.8	5.4
120°-130°	439.1	7.1
130°-140°	493.6	8.0
140°-150°	485.2	7.9
150°-160°	408.4	6.6
160°-170°	271.9	4.4
170°-180°	95.2	1.5
0°-30°	1050.9	17.1
0°-40°	1718.8	27.9
0°-60°	2801.1	45.5
0°-90°	3361.2	54.7
90°-120°	595.7	9.7
90°-150°	2013.5	32.7
90°-180°	2789.0	45.3
0°-180°	6150.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1113	1113	1113	1113	1113	
5°	1322	1113	986	1113	1322	137
15°	1968	1065	804	1065	1968	568
25°	2335	971	710	971	2335	1024
35°	1258	853	652	853	1258	817
45°	679	700	554	700	679	537
55°	461	493	440	493	461	414
65°	300	304	310	304	300	298
75°	154	145	166	145	154	165
85°	36	29	32	29	36	43
90°	24	1	24	1	24	13
95°	62	47	62	47	62	63
105°	188	178	188	178	188	200
115°	337	336	337	336	337	333
125°	486	492	486	492	486	435
135°	637	638	637	638	637	490
145°	774	774	774	774	774	483
155°	885	886	885	886	885	407
165°	962	966	962	966	962	271
175°	1000	1004	1000	1004	1000	95
180°	1007	1007	1007	1007	1007	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1180.7	1180.0	1177.7	1179.5	1176.1	1171.3	1170.8	1166.6	1154.1	1153.2	1149.8
5°	1321.8	1317.5	1316.9	1316.4	1308.8	1298.6	1279.2	1277.6	1251.7	1238.8	1223.1
7.5°	1504.4	1506.7	1498.8	1491.9	1468.9	1453.7	1432.8	1406.2	1374.4	1342.2	1320.7
10°	1635.5	1653.4	1631.3	1616.1	1602.1	1575.7	1545.0	1506.7	1468.5	1423.7	1389.7
12.5°	1776.2	1784.9	1780.4	1766.2	1744.5	1704.2	1649.8	1607.7	1572.4	1497.9	1467.8
15°	1967.6	2000.5	1979.5	1930.9	1932.1	1893.8	1822.6	1744.5	1703.0	1637.7	1548.8
17.5°	2171.6	2175.7	2166.8	2126.3	2099.4	2046.8	1981.1	1906.1	1822.1	1743.1	1648.8
20°	2280.3	2277.0	2258.2	2237.1	2190.8	2149.8	2078.1	1994.6	1886.7	1809.1	1706.2
22.5°	2340.7	2335.3	2326.3	2308.7	2270.2	2226.2	2161.8	2070.4	1967.9	1860.9	1741.9
25°	2335.3	2342.2	2343.4	2338.5	2325.1	2298.6	2247.9	2175.2	2072.7	1935.3	1811.3
27.5°	2123.9	2133.9	2162.7	2188.2	2216.8	2245.9	2242.0	2205.9	2130.1	2011.4	1859.8
30°	1912.6	1891.1	1944.4	2011.8	2057.6	2138.5	2183.8	2186.5	2143.9	2042.0	1894.3
32.5°	1619.4	1643.1	1666.7	1749.6	1849.7	1940.5	2030.7	2103.2	2111.6	2043.8	1914.5
35°	1258.2	1287.9	1330.9	1374.1	1481.9	1574.6	1733.1	1871.1	1981.1	1995.7	1916.4
37.5°	1013.9	1028.6	1055.8	1099.1	1169.6	1279.5	1402.2	1576.6	1735.9	1854.4	1859.6
40°	886.2	890.6	921.3	954.2	1011.3	1101.8	1212.4	1366.5	1557.4	1722.9	1791.9
42.5°	790.5	799.9	813.0	844.6	890.1	958.2	1061.0	1188.4	1363.3	1553.8	1688.8
45°	679.2	690.0	698.1	719.1	751.5	797.3	869.0	985.4	1118.6	1315.3	1497.0
47.5°	605.7	606.6	612.6	628.4	650.5	684.8	735.5	810.3	932.6	1092.2	1278.7
50°	553.1	561.7	563.9	576.2	593.5	618.9	660.9	724.5	824.8	965.0	1136.4
52.5°	516.0	518.6	524.7	533.6	548.7	568.4	604.8	654.7	733.3	852.8	1010.4
55°	461.4	461.4	467.4	474.4	483.0	500.8	525.1	561.7	621.5	714.3	844.7
57.5°	411.0	413.7	417.9	420.0	427.4	439.1	459.4	487.2	531.9	603.2	706.9
60°	377.3	382.2	381.7	386.0	392.4	401.6	418.8	441.5	481.4	538.5	625.9
62.5°	348.0	347.7	347.6	352.8	359.3	368.0	379.2	398.8	432.7	483.3	557.7
65°	299.8	298.7	302.5	305.6	307.8	314.3	322.9	340.2	362.8	400.5	458.2
67.5°	256.8	253.7	255.7	256.8	260.5	265.5	273.6	284.3	302.3	332.6	376.0
70°	227.5	224.8	224.3	225.3	228.5	232.3	238.3	248.5	265.2	289.5	321.3
72.5°	197.3	195.4	195.4	197.7	199.2	201.7	205.9	215.3	228.5	246.8	276.5
75°	154.2	154.2	154.2	154.7	156.3	158.5	161.7	166.6	176.8	189.7	209.7
77.5°	115.6	115.5	114.8	114.7	117.1	118.0	118.8	123.3	129.0	137.8	152.3
80°	90.5	87.9	89.0	90.5	91.7	92.2	93.8	94.9	99.7	104.6	114.8
82.5°	67.3	65.0	65.2	67.7	67.9	68.4	70.1	71.6	73.4	77.9	83.3
85°	35.6	35.6	36.1	36.1	36.7	36.1	37.7	38.3	38.3	41.0	44.2
87.5°	17.7	16.7	17.1	17.5	17.0	17.3	17.6	17.9	18.1	18.5	18.5
90°	23.7	23.4	23.1	22.7	22.3	21.8	21.1	20.4	19.6	19.0	16.7
92.5°	31.9	32.2	32.4	32.6	32.8	32.6	32.1	31.5	30.9	30.3	29.1
95°	61.7	61.7	61.7	61.7	61.7	61.3	60.6	59.9	59.3	58.5	57.1
97.5°	94.9	95.0	95.1	95.1	95.1	94.8	94.0	93.2	92.4	91.6	90.5
100°	120.2	119.9	119.5	119.1	118.8	118.4	117.8	117.3	116.8	116.2	115.3
102.5°	146.2	146.2	146.2	146.3	146.4	146.2	145.7	145.1	144.6	144.1	142.9
105°	188.2	187.8	187.5	187.1	186.8	186.6	186.6	186.6	186.6	186.6	185.1
107.5°	232.0	232.2	232.4	232.7	232.8	232.7	232.1	231.6	231.0	230.4	229.8
110°	261.7	262.1	262.4	262.8	263.2	263.0	262.3	261.6	260.9	260.2	259.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	293.3	293.4	293.5	293.6	293.7	293.3	292.4	291.6	290.7	289.9	289.9
115°	336.8	337.1	337.2	337.4	337.5	337.5	337.4	337.2	337.1	336.8	337.2
117.5°	381.0	381.5	382.0	382.5	382.9	383.3	383.3	383.3	383.3	383.3	383.8
120°	412.0	412.3	412.7	413.0	413.4	413.7	413.8	414.0	414.2	414.4	415.3
122.5°	441.7	442.2	442.7	443.2	443.7	444.2	444.7	445.0	445.5	446.0	446.5
125°	486.3	487.0	487.7	488.5	489.1	489.8	490.5	491.2	491.9	492.7	493.0
127.5°	530.8	531.6	532.3	533.2	534.0	534.9	535.9	536.9	537.8	538.8	539.2
130°	559.8	561.1	562.3	563.6	564.7	565.8	566.4	567.1	567.8	568.5	569.1
132.5°	590.3	591.2	592.2	593.1	594.1	594.9	595.8	596.6	597.5	598.3	598.7
135°	637.4	637.7	638.0	638.4	638.7	639.3	640.0	640.7	641.4	642.1	642.3
137.5°	679.0	679.6	680.2	681.0	681.6	682.3	683.1	683.8	684.5	685.2	684.8
140°	706.2	707.4	708.6	709.9	711.1	711.8	711.9	712.1	712.3	712.5	712.3
142.5°	734.0	734.9	735.9	736.8	737.8	738.3	738.6	738.7	738.9	739.0	738.7
145°	774.1	774.8	775.5	776.3	777.0	777.4	777.6	777.8	777.9	778.1	777.6
147.5°	809.9	811.0	812.0	813.1	814.1	814.7	814.7	814.7	814.7	814.7	814.1
150°	832.7	833.7	834.8	835.8	836.9	837.4	837.4	837.4	837.4	837.4	837.1
152.5°	854.8	855.7	856.7	857.5	858.5	858.8	858.5	858.3	857.9	857.7	857.5
155°	884.9	886.1	887.3	888.6	889.8	890.0	889.4	888.7	888.0	887.2	887.1
157.5°	912.2	913.2	914.2	915.2	916.2	916.3	915.5	914.8	914.1	913.3	913.2
160°	929.9	930.7	931.4	932.1	932.7	932.6	931.8	930.9	930.0	929.2	929.2
162.5°	943.3	944.4	945.5	946.6	947.7	947.8	947.0	946.1	945.2	944.4	944.2
165°	962.3	963.6	964.8	966.1	967.3	967.3	966.3	965.3	964.2	963.1	963.1
167.5°	978.7	979.8	980.8	981.9	983.0	983.0	981.9	980.8	979.8	978.7	978.5
170°	986.9	988.1	989.4	990.5	991.8	991.8	990.5	989.4	988.1	986.9	986.9
172.5°	993.2	994.4	995.7	996.9	998.1	998.1	997.1	996.0	994.9	993.8	993.8
175°	1000.3	1001.6	1002.7	1004.0	1005.2	1005.4	1004.2	1003.2	1002.2	1001.1	1001.1
177.5°	1004.1	1005.1	1006.1	1007.1	1008.1	1008.1	1007.3	1006.5	1005.6	1004.7	1004.7
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1147.2	1143.7	1140.3	1134.2	1129.0	1121.7	1119.5	1117.0	1109.2	1102.3	1097.1
5°	1217.2	1204.3	1185.4	1168.2	1154.1	1135.3	1124.5	1113.2	1097.0	1082.4	1070.6
7.5°	1290.5	1265.1	1235.8	1204.0	1174.6	1146.1	1123.1	1102.6	1080.0	1058.5	1041.8
10°	1348.8	1312.1	1271.1	1226.9	1189.2	1152.5	1121.8	1094.9	1065.7	1040.4	1019.4
12.5°	1415.2	1360.8	1304.3	1250.6	1206.0	1155.2	1117.9	1083.6	1050.7	1020.2	996.6
15°	1493.7	1424.7	1358.0	1284.0	1216.2	1152.5	1108.3	1065.2	1026.9	995.7	965.5
17.5°	1565.4	1487.2	1399.1	1309.3	1227.3	1151.9	1090.0	1041.2	993.4	955.1	925.0
20°	1605.9	1516.9	1417.2	1324.0	1233.4	1149.3	1081.4	1023.2	971.4	931.0	897.0
22.5°	1640.8	1536.8	1433.6	1333.9	1233.0	1142.4	1065.4	1005.5	949.4	909.8	873.7
25°	1677.0	1552.5	1449.1	1332.1	1219.4	1125.6	1039.3	971.4	915.4	869.0	831.8
27.5°	1708.1	1551.5	1428.6	1302.8	1198.0	1104.0	1011.9	939.1	879.6	829.2	791.5
30°	1728.8	1553.6	1407.5	1283.0	1177.3	1080.3	990.8	917.5	855.0	803.7	768.2
32.5°	1741.8	1552.3	1388.1	1255.4	1144.5	1058.8	968.0	892.1	827.8	777.4	743.1
35°	1749.3	1542.9	1354.7	1198.3	1091.6	1008.1	932.1	853.3	786.0	739.1	700.3
37.5°	1734.2	1522.9	1315.9	1143.4	1026.5	944.2	880.3	813.3	748.8	697.1	663.7
40°	1710.5	1510.0	1285.7	1104.5	981.7	902.4	848.0	782.2	718.6	669.6	638.3
42.5°	1665.2	1483.6	1252.5	1061.4	935.1	855.8	805.7	750.8	690.5	644.5	613.2
45°	1554.7	1426.4	1202.7	996.7	866.3	784.3	740.1	700.3	645.8	601.0	574.1
47.5°	1401.4	1340.2	1130.7	928.5	794.5	715.7	669.7	637.6	597.9	561.7	535.8
50°	1294.8	1269.6	1081.9	881.9	746.6	669.6	625.3	596.2	567.7	531.6	507.8
52.5°	1172.0	1187.6	1025.0	833.6	697.9	622.1	580.5	557.4	531.4	501.8	481.1
55°	998.9	1055.5	926.7	752.6	625.3	553.1	513.7	493.2	478.2	456.1	438.2
57.5°	836.9	908.9	820.4	669.0	554.1	491.7	454.0	431.7	422.0	410.4	396.4
60°	740.7	811.8	744.5	612.9	506.2	446.9	413.4	394.6	384.9	376.8	365.0
62.5°	654.9	726.9	670.3	556.0	459.1	404.2	375.1	356.6	349.1	344.9	334.8
65°	536.9	598.9	561.2	467.4	391.9	343.4	317.0	304.0	297.1	295.4	288.9
67.5°	437.0	484.2	456.7	387.7	328.3	286.4	264.0	252.9	247.6	247.0	242.2
70°	371.5	415.7	394.6	332.1	280.8	248.0	228.5	218.9	215.6	215.1	212.4
72.5°	320.5	351.3	334.6	282.5	242.9	213.0	198.8	188.7	185.0	185.8	183.9
75°	237.2	260.4	250.6	214.5	182.8	163.3	151.5	145.0	141.8	143.4	141.2
77.5°	170.6	185.4	176.6	151.6	132.0	118.0	109.2	105.2	102.3	102.2	101.2
80°	128.8	137.4	132.6	117.5	101.3	89.5	82.5	79.8	78.2	77.6	77.1
82.5°	91.7	99.1	93.4	83.0	72.0	64.9	60.9	57.4	56.2	56.5	55.9
85°	46.3	49.0	46.9	40.4	36.1	32.9	30.7	29.1	28.0	28.6	27.5
87.5°	18.9	18.8	17.0	15.0	13.7	12.0	11.7	10.5	10.0	10.4	10.3
90°	14.4	12.1	9.8	7.8	6.1	4.3	2.5	0.8	2.5	4.3	6.1
92.5°	27.7	26.5	25.2	23.9	22.7	21.5	20.4	19.2	20.4	21.5	22.7
95°	55.7	54.3	52.9	51.6	50.4	49.1	47.8	46.7	47.8	49.1	50.4
97.5°	89.5	88.5	87.5	86.5	85.6	84.7	83.8	82.9	83.8	84.7	85.6
100°	114.5	113.6	112.7	111.8	110.7	109.6	108.6	107.6	108.6	109.6	110.7
102.5°	141.7	140.6	139.4	138.6	137.9	137.3	136.7	136.0	136.7	137.3	137.9
105°	183.5	181.9	180.3	179.4	179.0	178.6	178.2	177.9	178.2	178.6	179.0
107.5°	229.2	228.5	227.9	227.5	227.3	227.0	226.9	226.6	226.9	227.0	227.3
110°	259.4	259.1	258.7	258.4	258.0	257.7	257.4	257.0	257.4	257.7	258.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	289.8	289.7	289.6	289.5	289.2	289.1	288.8	288.6	288.8	289.1	289.2
115°	337.5	337.9	338.3	338.2	337.6	337.2	336.6	336.0	336.6	337.2	337.6
117.5°	384.3	384.8	385.2	385.2	384.9	384.5	384.2	383.8	384.2	384.5	384.9
120°	416.1	417.0	417.9	417.8	416.8	415.7	414.6	413.6	414.6	415.7	416.8
122.5°	446.9	447.3	447.8	447.7	446.9	446.1	445.4	444.6	445.4	446.1	446.9
125°	493.4	493.7	494.1	493.9	493.5	492.9	492.4	491.9	492.4	492.9	493.5
127.5°	539.6	540.0	540.3	540.0	538.8	537.7	536.6	535.5	536.6	537.7	538.8
130°	569.6	570.1	570.7	570.2	568.8	567.4	566.0	564.6	566.0	567.4	568.8
132.5°	599.0	599.4	599.8	599.4	597.9	596.5	595.1	593.7	595.1	596.5	597.9
135°	642.5	642.6	642.8	642.4	641.3	640.2	639.2	638.2	639.2	640.2	641.3
137.5°	684.4	683.9	683.4	682.8	681.9	681.0	680.2	679.3	680.2	681.0	681.9
140°	712.1	711.9	711.8	711.2	710.3	709.5	708.6	707.7	708.6	709.5	710.3
142.5°	738.4	738.1	737.8	737.2	736.3	735.5	734.5	733.6	734.5	735.5	736.3
145°	777.1	776.5	776.0	775.5	775.2	774.8	774.5	774.1	774.5	774.8	775.2
147.5°	813.7	813.2	812.7	812.1	811.5	810.9	810.2	809.6	810.2	810.9	811.5
150°	836.7	836.4	836.0	835.7	835.3	835.0	834.6	834.2	834.6	835.0	835.3
152.5°	857.2	857.1	856.8	856.4	856.0	855.5	855.0	854.5	855.0	855.5	856.0
155°	886.8	886.7	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5
157.5°	913.1	912.9	912.8	912.8	913.0	913.2	913.5	913.6	913.5	913.2	913.0
160°	929.2	929.2	929.2	929.3	929.7	930.0	930.3	930.7	930.3	930.0	929.7
162.5°	944.0	943.9	943.8	944.0	944.4	944.9	945.4	945.9	945.4	944.9	944.4
165°	963.1	963.1	963.1	963.5	963.9	964.5	965.0	965.5	965.0	964.5	963.9
167.5°	978.3	978.3	978.1	978.3	979.1	979.8	980.5	981.2	980.5	979.8	979.1
170°	986.9	986.9	986.9	987.2	987.9	988.6	989.4	990.1	989.4	988.6	987.9
172.5°	993.8	993.8	993.8	994.2	994.9	995.6	996.3	997.0	996.3	995.6	994.9
175°	1001.1	1001.1	1001.1	1001.5	1002.2	1002.8	1003.5	1004.2	1003.5	1002.8	1002.2
177.5°	1004.7	1004.7	1004.7	1005.0	1005.6	1006.2	1006.7	1007.3	1006.7	1006.2	1005.6
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1094.1	1091.1	1086.8	1080.3	1075.1	1066.9	1066.9	1068.3	1068.3	1067.8	1066.9
5°	1060.9	1052.8	1043.1	1031.8	1019.9	1008.1	1005.9	1001.6	998.4	996.2	993.5
7.5°	1025.9	1011.5	997.4	981.5	967.1	955.1	946.8	939.9	935.5	930.7	927.3
10°	1002.1	984.4	967.7	950.9	932.6	918.1	908.9	902.4	897.5	893.3	891.1
12.5°	974.1	953.7	935.3	919.4	899.4	884.4	875.7	872.7	867.0	857.9	853.1
15°	933.1	914.3	892.2	867.9	858.2	839.9	829.7	824.8	821.6	814.5	812.4
17.5°	898.1	873.4	848.6	830.5	812.5	797.6	791.9	785.8	781.6	775.9	774.1
20°	870.1	848.0	825.3	805.9	787.0	770.9	766.0	761.7	757.4	754.7	752.6
22.5°	841.6	819.5	800.7	782.6	762.5	751.9	746.6	741.9	738.9	737.0	734.8
25°	801.6	782.2	761.2	745.0	728.8	721.8	718.6	715.9	713.8	711.1	710.5
27.5°	765.8	744.7	727.6	712.6	700.9	695.1	692.0	690.6	691.1	692.1	692.7
30°	739.1	719.7	705.7	692.7	681.9	676.5	676.0	676.0	678.2	678.7	679.8
32.5°	714.5	698.5	684.5	672.0	663.8	660.1	662.2	662.2	663.9	665.4	667.3
35°	678.7	664.6	653.9	643.1	636.1	637.7	638.8	639.8	642.5	645.8	648.0
37.5°	644.5	632.3	621.2	612.7	609.5	612.4	615.0	617.3	620.4	622.8	625.0
40°	620.0	610.8	600.0	592.5	593.5	595.2	597.3	600.0	602.7	604.3	606.5
42.5°	597.1	587.5	579.3	573.1	574.6	576.6	577.9	579.3	582.4	585.3	586.6
45°	562.3	554.7	547.2	543.4	544.5	545.6	546.6	548.3	551.0	553.1	553.7
47.5°	523.1	517.8	512.8	509.1	510.8	510.4	511.8	515.2	516.1	517.4	520.4
50°	498.1	493.2	487.4	486.2	486.2	486.2	486.8	491.1	491.1	493.2	495.4
52.5°	470.5	467.4	463.6	461.7	460.8	460.8	463.0	465.2	466.1	469.1	471.3
55°	429.7	426.4	423.2	421.5	420.5	421.5	425.9	426.9	429.7	431.3	432.8
57.5°	387.1	384.6	382.0	381.1	380.9	382.3	384.7	387.9	388.6	393.6	396.0
60°	359.0	355.2	353.1	353.1	352.0	356.9	355.8	361.2	362.3	365.5	369.2
62.5°	330.1	325.0	324.2	324.2	325.7	327.1	328.6	331.0	333.8	337.9	340.8
65°	283.5	280.8	284.6	284.1	283.0	286.2	286.2	288.9	292.2	296.0	301.9
67.5°	239.5	238.1	238.4	238.4	240.0	241.9	243.4	245.7	249.6	253.6	257.5
70°	209.7	211.4	208.7	210.8	212.4	212.9	214.0	217.2	221.6	224.3	228.5
72.5°	180.8	180.7	181.0	181.9	183.5	184.5	185.5	189.3	193.9	196.2	199.7
75°	139.1	138.6	140.1	140.1	142.8	143.9	145.0	146.6	150.9	154.2	156.9
77.5°	101.6	102.2	101.9	103.7	103.0	103.1	106.5	108.1	108.6	114.9	116.4
80°	76.5	77.6	78.2	78.7	79.2	78.2	81.9	83.6	83.6	87.3	90.0
82.5°	55.0	55.6	57.0	57.6	57.7	58.8	59.1	60.3	61.6	63.2	66.7
85°	27.5	29.1	29.6	29.1	29.6	28.6	30.2	30.7	31.3	31.3	31.3
87.5°	10.2	11.0	11.0	12.0	12.0	12.8	13.0	12.3	12.4	13.9	12.2
90°	7.8	9.8	12.1	14.4	16.7	19.0	19.6	20.4	21.1	21.8	22.3
92.5°	23.9	25.2	26.5	27.7	29.1	30.3	30.9	31.5	32.1	32.6	32.8
95°	51.6	52.9	54.3	55.7	57.1	58.5	59.3	59.9	60.6	61.3	61.7
97.5°	86.5	87.5	88.5	89.5	90.5	91.6	92.4	93.2	94.0	94.8	95.1
100°	111.8	112.7	113.6	114.5	115.3	116.2	116.8	117.3	117.8	118.4	118.8
102.5°	138.6	139.4	140.6	141.7	142.9	144.1	144.6	145.1	145.7	146.2	146.4
105°	179.4	180.3	181.9	183.5	185.1	186.6	186.6	186.6	186.6	186.6	186.8
107.5°	227.5	227.9	228.5	229.2	229.8	230.4	231.0	231.6	232.1	232.7	232.8
110°	258.4	258.7	259.1	259.4	259.8	260.2	260.9	261.6	262.3	263.0	263.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	289.5	289.6	289.7	289.8	289.9	289.9	290.7	291.6	292.4	293.3	293.7
115°	338.2	338.3	337.9	337.5	337.2	336.8	337.1	337.2	337.4	337.5	337.5
117.5°	385.2	385.2	384.8	384.3	383.8	383.3	383.3	383.3	383.3	383.3	382.9
120°	417.8	417.9	417.0	416.1	415.3	414.4	414.2	414.0	413.8	413.7	413.4
122.5°	447.7	447.8	447.3	446.9	446.5	446.0	445.5	445.0	444.7	444.2	443.7
125°	493.9	494.1	493.7	493.4	493.0	492.7	491.9	491.2	490.5	489.8	489.1
127.5°	540.0	540.3	540.0	539.6	539.2	538.8	537.8	536.9	535.9	534.9	534.0
130°	570.2	570.7	570.1	569.6	569.1	568.5	567.8	567.1	566.4	565.8	564.7
132.5°	599.4	599.8	599.4	599.0	598.7	598.3	597.5	596.6	595.8	594.9	594.1
135°	642.4	642.8	642.6	642.5	642.3	642.1	641.4	640.7	640.0	639.3	638.7
137.5°	682.8	683.4	683.9	684.4	684.8	685.2	684.5	683.8	683.1	682.3	681.6
140°	711.2	711.8	711.9	712.1	712.3	712.5	712.3	712.1	711.9	711.8	711.1
142.5°	737.2	737.8	738.1	738.4	738.7	739.0	738.9	738.7	738.6	738.3	737.8
145°	775.5	776.0	776.5	777.1	777.6	778.1	777.9	777.8	777.6	777.4	777.0
147.5°	812.1	812.7	813.2	813.7	814.1	814.7	814.7	814.7	814.7	814.7	814.1
150°	835.7	836.0	836.4	836.7	837.1	837.4	837.4	837.4	837.4	837.4	836.9
152.5°	856.4	856.8	857.1	857.2	857.5	857.7	857.9	858.3	858.5	858.8	858.5
155°	886.5	886.5	886.7	886.8	887.1	887.2	888.0	888.7	889.4	890.0	889.8
157.5°	912.8	912.8	912.9	913.1	913.2	913.3	914.1	914.8	915.5	916.3	916.2
160°	929.3	929.2	929.2	929.2	929.2	929.2	930.0	930.9	931.8	932.6	932.7
162.5°	944.0	943.8	943.9	944.0	944.2	944.4	945.2	946.1	947.0	947.8	947.7
165°	963.5	963.1	963.1	963.1	963.1	963.1	964.2	965.3	966.3	967.3	967.3
167.5°	978.3	978.1	978.3	978.3	978.5	978.7	979.8	980.8	981.9	983.0	983.0
170°	987.2	986.9	986.9	986.9	986.9	986.9	988.1	989.4	990.5	991.8	991.8
172.5°	994.2	993.8	993.8	993.8	993.8	993.8	994.9	996.0	997.1	998.1	998.1
175°	1001.5	1001.1	1001.1	1001.1	1001.1	1001.1	1002.2	1003.2	1004.2	1005.4	1005.2
177.5°	1005.0	1004.7	1004.7	1004.7	1004.7	1004.7	1005.6	1006.5	1007.3	1008.1	1008.1
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1063.9	1063.5	1066.5	1064.4	1066.5	1063.5	1063.9	1066.9	1067.8	1068.3	1068.3
5°	990.3	991.9	986.5	986.5	986.5	991.9	990.3	993.5	996.2	998.4	1001.6
7.5°	924.7	922.3	922.6	919.6	922.6	922.3	924.7	927.3	930.7	935.5	939.9
10°	884.6	881.4	880.3	880.8	880.3	881.4	884.6	891.1	893.3	897.5	902.4
12.5°	851.4	850.8	843.7	843.8	843.7	850.8	851.4	853.1	857.9	867.0	872.7
15°	812.4	802.2	801.1	804.3	801.1	802.2	812.4	812.4	814.5	821.6	824.8
17.5°	773.2	767.9	768.2	766.6	768.2	767.9	773.2	774.1	775.9	781.6	785.8
20°	752.6	749.3	748.8	745.0	748.8	749.3	752.6	752.6	754.7	757.4	761.7
22.5°	733.6	732.5	732.8	728.6	732.8	732.5	733.6	734.8	737.0	738.9	741.9
25°	710.0	712.6	710.5	710.5	710.5	712.6	710.0	710.5	711.1	713.8	715.9
27.5°	694.0	693.9	692.8	692.8	692.8	693.9	694.0	692.7	692.1	691.1	690.6
30°	681.9	681.4	682.5	682.5	682.5	681.4	681.9	679.8	678.7	678.2	676.0
32.5°	669.9	670.6	670.8	671.2	670.8	670.6	669.9	667.3	665.4	663.9	662.2
35°	651.2	651.7	653.4	652.3	653.4	651.7	651.2	648.0	645.8	642.5	639.8
37.5°	626.0	628.4	627.9	628.8	627.9	628.4	626.0	625.0	622.8	620.4	617.3
40°	607.0	608.6	608.1	608.1	608.1	608.6	607.0	606.5	604.3	602.7	600.0
42.5°	587.6	588.7	587.4	586.5	587.4	588.7	587.6	586.6	585.3	582.4	579.3
45°	555.8	554.7	556.3	554.1	556.3	554.7	555.8	553.7	553.1	551.0	548.3
47.5°	520.2	521.3	521.7	523.3	521.7	521.3	520.2	520.4	517.4	516.1	515.2
50°	496.5	499.7	499.7	499.2	499.7	499.7	496.5	495.4	493.2	491.1	491.1
52.5°	473.2	474.7	476.9	476.7	476.9	474.7	473.2	471.3	469.1	466.1	465.2
55°	437.2	438.2	439.3	439.9	439.3	438.2	437.2	432.8	431.3	429.7	426.9
57.5°	399.9	399.4	402.0	402.8	402.0	399.4	399.9	396.0	393.6	388.6	387.9
60°	373.6	373.6	377.9	379.5	377.9	373.6	373.6	369.2	365.5	362.3	361.2
62.5°	345.5	347.3	351.6	349.4	351.6	347.3	345.5	340.8	337.9	333.8	331.0
65°	304.6	308.9	308.3	310.5	308.3	308.9	304.6	301.9	296.0	292.2	288.9
67.5°	261.7	264.4	268.3	268.7	268.3	264.4	261.7	257.5	253.6	249.6	245.7
70°	232.9	235.6	237.7	239.3	237.7	235.6	232.9	228.5	224.3	221.6	217.2
72.5°	204.9	206.3	211.4	209.1	211.4	206.3	204.9	199.7	196.2	193.9	189.3
75°	160.7	164.4	167.6	166.0	167.6	164.4	160.7	156.9	154.2	150.9	146.6
77.5°	118.8	122.6	124.1	122.7	124.1	122.6	118.8	116.4	114.9	108.6	108.1
80°	93.8	93.2	96.5	95.9	96.5	93.2	93.8	90.0	87.3	83.6	83.6
82.5°	68.8	68.3	69.8	70.1	69.8	68.3	68.8	66.7	63.2	61.6	60.3
85°	33.4	35.0	32.9	32.3	32.9	35.0	33.4	31.3	31.3	31.3	30.7
87.5°	12.3	12.4	12.0	11.6	12.0	12.4	12.3	12.2	13.9	12.4	12.3
90°	22.7	23.1	23.4	23.7	23.4	23.1	22.7	22.3	21.8	21.1	20.4
92.5°	32.6	32.4	32.2	31.9	32.2	32.4	32.6	32.8	32.6	32.1	31.5
95°	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.3	60.6	59.9
97.5°	95.1	95.1	95.0	94.9	95.0	95.1	95.1	95.1	94.8	94.0	93.2
100°	119.1	119.5	119.9	120.2	119.9	119.5	119.1	118.8	118.4	117.8	117.3
102.5°	146.3	146.2	146.2	146.2	146.2	146.2	146.3	146.4	146.2	145.7	145.1
105°	187.1	187.5	187.8	188.2	187.8	187.5	187.1	186.8	186.6	186.6	186.6
107.5°	232.7	232.4	232.2	232.0	232.2	232.4	232.7	232.8	232.7	232.1	231.6
110°	262.8	262.4	262.1	261.7	262.1	262.4	262.8	263.2	263.0	262.3	261.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	293.6	293.5	293.4	293.3	293.4	293.5	293.6	293.7	293.3	292.4	291.6
115°	337.4	337.2	337.1	336.8	337.1	337.2	337.4	337.5	337.5	337.4	337.2
117.5°	382.5	382.0	381.5	381.0	381.5	382.0	382.5	382.9	383.3	383.3	383.3
120°	413.0	412.7	412.3	412.0	412.3	412.7	413.0	413.4	413.7	413.8	414.0
122.5°	443.2	442.7	442.2	441.7	442.2	442.7	443.2	443.7	444.2	444.7	445.0
125°	488.5	487.7	487.0	486.3	487.0	487.7	488.5	489.1	489.8	490.5	491.2
127.5°	533.2	532.3	531.6	530.8	531.6	532.3	533.2	534.0	534.9	535.9	536.9
130°	563.6	562.3	561.1	559.8	561.1	562.3	563.6	564.7	565.8	566.4	567.1
132.5°	593.1	592.2	591.2	590.3	591.2	592.2	593.1	594.1	594.9	595.8	596.6
135°	638.4	638.0	637.7	637.4	637.7	638.0	638.4	638.7	639.3	640.0	640.7
137.5°	681.0	680.2	679.6	679.0	679.6	680.2	681.0	681.6	682.3	683.1	683.8
140°	709.9	708.6	707.4	706.2	707.4	708.6	709.9	711.1	711.8	711.9	712.1
142.5°	736.8	735.9	734.9	734.0	734.9	735.9	736.8	737.8	738.3	738.6	738.7
145°	776.3	775.5	774.8	774.1	774.8	775.5	776.3	777.0	777.4	777.6	777.8
147.5°	813.1	812.0	811.0	809.9	811.0	812.0	813.1	814.1	814.7	814.7	814.7
150°	835.8	834.8	833.7	832.7	833.7	834.8	835.8	836.9	837.4	837.4	837.4
152.5°	857.5	856.7	855.7	854.8	855.7	856.7	857.5	858.5	858.8	858.5	858.3
155°	888.6	887.3	886.1	884.9	886.1	887.3	888.6	889.8	890.0	889.4	888.7
157.5°	915.2	914.2	913.2	912.2	913.2	914.2	915.2	916.2	916.3	915.5	914.8
160°	932.1	931.4	930.7	929.9	930.7	931.4	932.1	932.7	932.6	931.8	930.9
162.5°	946.6	945.5	944.4	943.3	944.4	945.5	946.6	947.7	947.8	947.0	946.1
165°	966.1	964.8	963.6	962.3	963.6	964.8	966.1	967.3	967.3	966.3	965.3
167.5°	981.9	980.8	979.8	978.7	979.8	980.8	981.9	983.0	983.0	981.9	980.8
170°	990.5	989.4	988.1	986.9	988.1	989.4	990.5	991.8	991.8	990.5	989.4
172.5°	996.9	995.7	994.4	993.2	994.4	995.7	996.9	998.1	998.1	997.1	996.0
175°	1004.0	1002.7	1001.6	1000.3	1001.6	1002.7	1004.0	1005.2	1005.4	1004.2	1003.2
177.5°	1007.1	1006.1	1005.1	1004.1	1005.1	1006.1	1007.1	1008.1	1008.1	1007.3	1006.5
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1066.9	1066.9	1075.1	1080.3	1086.8	1091.1	1094.1	1097.1	1102.3	1109.2	1117.0
5°	1005.9	1008.1	1019.9	1031.8	1043.1	1052.8	1060.9	1070.6	1082.4	1097.0	1113.2
7.5°	946.8	955.1	967.1	981.5	997.4	1011.5	1025.9	1041.8	1058.5	1080.0	1102.6
10°	908.9	918.1	932.6	950.9	967.7	984.4	1002.1	1019.4	1040.4	1065.7	1094.9
12.5°	875.7	884.4	899.4	919.4	935.3	953.7	974.1	996.6	1020.2	1050.7	1083.6
15°	829.7	839.9	858.2	867.9	892.2	914.3	933.1	965.5	995.7	1026.9	1065.2
17.5°	791.9	797.6	812.5	830.5	848.6	873.4	898.1	925.0	955.1	993.4	1041.2
20°	766.0	770.9	787.0	805.9	825.3	848.0	870.1	897.0	931.0	971.4	1023.2
22.5°	746.6	751.9	762.5	782.6	800.7	819.5	841.6	873.7	909.8	949.4	1005.5
25°	718.6	721.8	728.8	745.0	761.2	782.2	801.6	831.8	869.0	915.4	971.4
27.5°	692.0	695.1	700.9	712.6	727.6	744.7	765.8	791.5	829.2	879.6	939.1
30°	676.0	676.5	681.9	692.7	705.7	719.7	739.1	768.2	803.7	855.0	917.5
32.5°	662.2	660.1	663.8	672.0	684.5	698.5	714.5	743.1	777.4	827.8	892.1
35°	638.8	637.7	636.1	643.1	653.9	664.6	678.7	700.3	739.1	786.0	853.3
37.5°	615.0	612.4	609.5	612.7	621.2	632.3	644.5	663.7	697.1	748.8	813.3
40°	597.3	595.2	593.5	592.5	600.0	610.8	620.0	638.3	669.6	718.6	782.2
42.5°	577.9	576.6	574.6	573.1	579.3	587.5	597.1	613.2	644.5	690.5	750.8
45°	546.6	545.6	544.5	543.4	547.2	554.7	562.3	574.1	601.0	645.8	700.3
47.5°	511.8	510.4	510.8	509.1	512.8	517.8	523.1	535.8	561.7	597.9	637.6
50°	486.8	486.2	486.2	486.2	487.4	493.2	498.1	507.8	531.6	567.7	596.2
52.5°	463.0	460.8	460.8	461.7	463.6	467.4	470.5	481.1	501.8	531.4	557.4
55°	425.9	421.5	420.5	421.5	423.2	426.4	429.7	438.2	456.1	478.2	493.2
57.5°	384.7	382.3	380.9	381.1	382.0	384.6	387.1	396.4	410.4	422.0	431.7
60°	355.8	356.9	352.0	353.1	353.1	355.2	359.0	365.0	376.8	384.9	394.6
62.5°	328.6	327.1	325.7	324.2	324.2	325.0	330.1	334.8	344.9	349.1	356.6
65°	286.2	286.2	283.0	284.1	284.6	280.8	283.5	288.9	295.4	297.1	304.0
67.5°	243.4	241.9	240.0	238.4	238.4	238.1	239.5	242.2	247.0	247.6	252.9
70°	214.0	212.9	212.4	210.8	208.7	211.4	209.7	212.4	215.1	215.6	218.9
72.5°	185.5	184.5	183.5	181.9	181.0	180.7	180.8	183.9	185.8	185.0	188.7
75°	145.0	143.9	142.8	140.1	140.1	138.6	139.1	141.2	143.4	141.8	145.0
77.5°	106.5	103.1	103.0	103.7	101.9	102.2	101.6	101.2	102.2	102.3	105.2
80°	81.9	78.2	79.2	78.7	78.2	77.6	76.5	77.1	77.6	78.2	79.8
82.5°	59.1	58.8	57.7	57.6	57.0	55.6	55.0	55.9	56.5	56.2	57.4
85°	30.2	28.6	29.6	29.1	29.6	29.1	27.5	27.5	28.6	28.0	29.1
87.5°	13.0	12.8	12.0	12.0	11.0	11.0	10.2	10.3	10.4	10.0	10.5
90°	19.6	19.0	16.7	14.4	12.1	9.8	7.8	6.1	4.3	2.5	0.8
92.5°	30.9	30.3	29.1	27.7	26.5	25.2	23.9	22.7	21.5	20.4	19.2
95°	59.3	58.5	57.1	55.7	54.3	52.9	51.6	50.4	49.1	47.8	46.7
97.5°	92.4	91.6	90.5	89.5	88.5	87.5	86.5	85.6	84.7	83.8	82.9
100°	116.8	116.2	115.3	114.5	113.6	112.7	111.8	110.7	109.6	108.6	107.6
102.5°	144.6	144.1	142.9	141.7	140.6	139.4	138.6	137.9	137.3	136.7	136.0
105°	186.6	186.6	185.1	183.5	181.9	180.3	179.4	179.0	178.6	178.2	177.9
107.5°	231.0	230.4	229.8	229.2	228.5	227.9	227.5	227.3	227.0	226.9	226.6
110°	260.9	260.2	259.8	259.4	259.1	258.7	258.4	258.0	257.7	257.4	257.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	290.7	289.9	289.9	289.8	289.7	289.6	289.5	289.2	289.1	288.8	288.6
115°	337.1	336.8	337.2	337.5	337.9	338.3	338.2	337.6	337.2	336.6	336.0
117.5°	383.3	383.3	383.8	384.3	384.8	385.2	385.2	384.9	384.5	384.2	383.8
120°	414.2	414.4	415.3	416.1	417.0	417.9	417.8	416.8	415.7	414.6	413.6
122.5°	445.5	446.0	446.5	446.9	447.3	447.8	447.7	446.9	446.1	445.4	444.6
125°	491.9	492.7	493.0	493.4	493.7	494.1	493.9	493.5	492.9	492.4	491.9
127.5°	537.8	538.8	539.2	539.6	540.0	540.3	540.0	538.8	537.7	536.6	535.5
130°	567.8	568.5	569.1	569.6	570.1	570.7	570.2	568.8	567.4	566.0	564.6
132.5°	597.5	598.3	598.7	599.0	599.4	599.8	599.4	597.9	596.5	595.1	593.7
135°	641.4	642.1	642.3	642.5	642.6	642.8	642.4	641.3	640.2	639.2	638.2
137.5°	684.5	685.2	684.8	684.4	683.9	683.4	682.8	681.9	681.0	680.2	679.3
140°	712.3	712.5	712.3	712.1	711.9	711.8	711.2	710.3	709.5	708.6	707.7
142.5°	738.9	739.0	738.7	738.4	738.1	737.8	737.2	736.3	735.5	734.5	733.6
145°	777.9	778.1	777.6	777.1	776.5	776.0	775.5	775.2	774.8	774.5	774.1
147.5°	814.7	814.7	814.1	813.7	813.2	812.7	812.1	811.5	810.9	810.2	809.6
150°	837.4	837.4	837.1	836.7	836.4	836.0	835.7	835.3	835.0	834.6	834.2
152.5°	857.9	857.7	857.5	857.2	857.1	856.8	856.4	856.0	855.5	855.0	854.5
155°	888.0	887.2	887.1	886.8	886.7	886.5	886.5	886.5	886.5	886.5	886.5
157.5°	914.1	913.3	913.2	913.1	912.9	912.8	912.8	913.0	913.2	913.5	913.6
160°	930.0	929.2	929.2	929.2	929.2	929.2	929.3	929.7	930.0	930.3	930.7
162.5°	945.2	944.4	944.2	944.0	943.9	943.8	944.0	944.4	944.9	945.4	945.9
165°	964.2	963.1	963.1	963.1	963.1	963.1	963.5	963.9	964.5	965.0	965.5
167.5°	979.8	978.7	978.5	978.3	978.3	978.1	978.3	979.1	979.8	980.5	981.2
170°	988.1	986.9	986.9	986.9	986.9	986.9	987.2	987.9	988.6	989.4	990.1
172.5°	994.9	993.8	993.8	993.8	993.8	993.8	994.2	994.9	995.6	996.3	997.0
175°	1002.2	1001.1	1001.1	1001.1	1001.1	1001.1	1001.5	1002.2	1002.8	1003.5	1004.2
177.5°	1005.6	1004.7	1004.7	1004.7	1004.7	1004.7	1005.0	1005.6	1006.2	1006.7	1007.3
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1119.5	1121.7	1129.0	1134.2	1140.3	1143.7	1147.2	1149.8	1153.2	1154.1	1166.6
5°	1124.5	1135.3	1154.1	1168.2	1185.4	1204.3	1217.2	1223.1	1238.8	1251.7	1277.6
7.5°	1123.1	1146.1	1174.6	1204.0	1235.8	1265.1	1290.5	1320.7	1342.2	1374.4	1406.2
10°	1121.8	1152.5	1189.2	1226.9	1271.1	1312.1	1348.8	1389.7	1423.7	1468.5	1506.7
12.5°	1117.9	1155.2	1206.0	1250.6	1304.3	1360.8	1415.2	1467.8	1497.9	1572.4	1607.7
15°	1108.3	1152.5	1216.2	1284.0	1358.0	1424.7	1493.7	1548.8	1637.7	1703.0	1744.5
17.5°	1090.0	1151.9	1227.3	1309.3	1399.1	1487.2	1565.4	1648.8	1743.1	1822.1	1906.1
20°	1081.4	1149.3	1233.4	1324.0	1417.2	1516.9	1605.9	1706.2	1809.1	1886.7	1994.6
22.5°	1065.4	1142.4	1233.0	1333.9	1433.6	1536.8	1640.8	1741.9	1860.9	1967.9	2070.4
25°	1039.3	1125.6	1219.4	1332.1	1449.1	1552.5	1677.0	1811.3	1935.3	2072.7	2175.2
27.5°	1011.9	1104.0	1198.0	1302.8	1428.6	1551.5	1708.1	1859.8	2011.4	2130.1	2205.9
30°	990.8	1080.3	1177.3	1283.0	1407.5	1553.6	1728.8	1894.3	2042.0	2143.9	2186.5
32.5°	968.0	1058.8	1144.5	1255.4	1388.1	1552.3	1741.8	1914.5	2043.8	2111.6	2103.2
35°	932.1	1008.1	1091.6	1198.3	1354.7	1542.9	1749.3	1916.4	1995.7	1981.1	1871.1
37.5°	880.3	944.2	1026.5	1143.4	1315.9	1522.9	1734.2	1859.6	1854.4	1735.9	1576.6
40°	848.0	902.4	981.7	1104.5	1285.7	1510.0	1710.5	1791.9	1722.9	1557.4	1366.5
42.5°	805.7	855.8	935.1	1061.4	1252.5	1483.6	1665.2	1688.8	1553.8	1363.3	1188.4
45°	740.1	784.3	866.3	996.7	1202.7	1426.4	1554.7	1497.0	1315.3	1118.6	985.4
47.5°	669.7	715.7	794.5	928.5	1130.7	1340.2	1401.4	1278.7	1092.2	932.6	810.3
50°	625.3	669.6	746.6	881.9	1081.9	1269.6	1294.8	1136.4	965.0	824.8	724.5
52.5°	580.5	622.1	697.9	833.6	1025.0	1187.6	1172.0	1010.4	852.8	733.3	654.7
55°	513.7	553.1	625.3	752.6	926.7	1055.5	998.9	844.7	714.3	621.5	561.7
57.5°	454.0	491.7	554.1	669.0	820.4	908.9	836.9	706.9	603.2	531.9	487.2
60°	413.4	446.9	506.2	612.9	744.5	811.8	740.7	625.9	538.5	481.4	441.5
62.5°	375.1	404.2	459.1	556.0	670.3	726.9	654.9	557.7	483.3	432.7	398.8
65°	317.0	343.4	391.9	467.4	561.2	598.9	536.9	458.2	400.5	362.8	340.2
67.5°	264.0	286.4	328.3	387.7	456.7	484.2	437.0	376.0	332.6	302.3	284.3
70°	228.5	248.0	280.8	332.1	394.6	415.7	371.5	321.3	289.5	265.2	248.5
72.5°	198.8	213.0	242.9	282.5	334.6	351.3	320.5	276.5	246.8	228.5	215.3
75°	151.5	163.3	182.8	214.5	250.6	260.4	237.2	209.7	189.7	176.8	166.6
77.5°	109.2	118.0	132.0	151.6	176.6	185.4	170.6	152.3	137.8	129.0	123.3
80°	82.5	89.5	101.3	117.5	132.6	137.4	128.8	114.8	104.6	99.7	94.9
82.5°	60.9	64.9	72.0	83.0	93.4	99.1	91.7	83.3	77.9	73.4	71.6
85°	30.7	32.9	36.1	40.4	46.9	49.0	46.3	44.2	41.0	38.3	38.3
87.5°	11.7	12.0	13.7	15.0	17.0	18.8	18.9	18.5	18.5	18.1	17.9
90°	2.5	4.3	6.1	7.8	9.8	12.1	14.4	16.7	19.0	19.6	20.4
92.5°	20.4	21.5	22.7	23.9	25.2	26.5	27.7	29.1	30.3	30.9	31.5
95°	47.8	49.1	50.4	51.6	52.9	54.3	55.7	57.1	58.5	59.3	59.9
97.5°	83.8	84.7	85.6	86.5	87.5	88.5	89.5	90.5	91.6	92.4	93.2
100°	108.6	109.6	110.7	111.8	112.7	113.6	114.5	115.3	116.2	116.8	117.3
102.5°	136.7	137.3	137.9	138.6	139.4	140.6	141.7	142.9	144.1	144.6	145.1
105°	178.2	178.6	179.0	179.4	180.3	181.9	183.5	185.1	186.6	186.6	186.6
107.5°	226.9	227.0	227.3	227.5	227.9	228.5	229.2	229.8	230.4	231.0	231.6
110°	257.4	257.7	258.0	258.4	258.7	259.1	259.4	259.8	260.2	260.9	261.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	288.8	289.1	289.2	289.5	289.6	289.7	289.8	289.9	289.9	290.7	291.6
115°	336.6	337.2	337.6	338.2	338.3	337.9	337.5	337.2	336.8	337.1	337.2
117.5°	384.2	384.5	384.9	385.2	385.2	384.8	384.3	383.8	383.3	383.3	383.3
120°	414.6	415.7	416.8	417.8	417.9	417.0	416.1	415.3	414.4	414.2	414.0
122.5°	445.4	446.1	446.9	447.7	447.8	447.3	446.9	446.5	446.0	445.5	445.0
125°	492.4	492.9	493.5	493.9	494.1	493.7	493.4	493.0	492.7	491.9	491.2
127.5°	536.6	537.7	538.8	540.0	540.3	540.0	539.6	539.2	538.8	537.8	536.9
130°	566.0	567.4	568.8	570.2	570.7	570.1	569.6	569.1	568.5	567.8	567.1
132.5°	595.1	596.5	597.9	599.4	599.8	599.4	599.0	598.7	598.3	597.5	596.6
135°	639.2	640.2	641.3	642.4	642.8	642.6	642.5	642.3	642.1	641.4	640.7
137.5°	680.2	681.0	681.9	682.8	683.4	683.9	684.4	684.8	685.2	684.5	683.8
140°	708.6	709.5	710.3	711.2	711.8	711.9	712.1	712.3	712.5	712.3	712.1
142.5°	734.5	735.5	736.3	737.2	737.8	738.1	738.4	738.7	739.0	738.9	738.7
145°	774.5	774.8	775.2	775.5	776.0	776.5	777.1	777.6	778.1	777.9	777.8
147.5°	810.2	810.9	811.5	812.1	812.7	813.2	813.7	814.1	814.7	814.7	814.7
150°	834.6	835.0	835.3	835.7	836.0	836.4	836.7	837.1	837.4	837.4	837.4
152.5°	855.0	855.5	856.0	856.4	856.8	857.1	857.2	857.5	857.7	857.9	858.3
155°	886.5	886.5	886.5	886.5	886.5	886.7	886.8	887.1	887.2	888.0	888.7
157.5°	913.5	913.2	913.0	912.8	912.8	912.9	913.1	913.2	913.3	914.1	914.8
160°	930.3	930.0	929.7	929.3	929.2	929.2	929.2	929.2	929.2	930.0	930.9
162.5°	945.4	944.9	944.4	944.0	943.8	943.9	944.0	944.2	944.4	945.2	946.1
165°	965.0	964.5	963.9	963.5	963.1	963.1	963.1	963.1	963.1	964.2	965.3
167.5°	980.5	979.8	979.1	978.3	978.1	978.3	978.3	978.5	978.7	979.8	980.8
170°	989.4	988.6	987.9	987.2	986.9	986.9	986.9	986.9	986.9	988.1	989.4
172.5°	996.3	995.6	994.9	994.2	993.8	993.8	993.8	993.8	993.8	994.9	996.0
175°	1003.5	1002.8	1002.2	1001.5	1001.1	1001.1	1001.1	1001.1	1001.1	1002.2	1003.2
177.5°	1006.7	1006.2	1005.6	1005.0	1004.7	1004.7	1004.7	1004.7	1004.7	1005.6	1006.5
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1170.8	1171.3	1176.1	1179.5	1177.7	1180.0	1180.7
5°	1279.2	1298.6	1308.8	1316.4	1316.9	1317.5	1321.8
7.5°	1432.8	1453.7	1468.9	1491.9	1498.8	1506.7	1504.4
10°	1545.0	1575.7	1602.1	1616.1	1631.3	1653.4	1635.5
12.5°	1649.8	1704.2	1744.5	1766.2	1780.4	1784.9	1776.2
15°	1822.6	1893.8	1932.1	1930.9	1979.5	2000.5	1967.6
17.5°	1981.1	2046.8	2099.4	2126.3	2166.8	2175.7	2171.6
20°	2078.1	2149.8	2190.8	2237.1	2258.2	2277.0	2280.3
22.5°	2161.8	2226.2	2270.2	2308.7	2326.3	2335.3	2340.7
25°	2247.9	2298.6	2325.1	2338.5	2343.4	2342.2	2335.3
27.5°	2242.0	2245.9	2216.8	2188.2	2162.7	2133.9	2123.9
30°	2183.8	2138.5	2057.6	2011.8	1944.4	1891.1	1912.6
32.5°	2030.7	1940.5	1849.7	1749.6	1666.7	1643.1	1619.4
35°	1733.1	1574.6	1481.9	1374.1	1330.9	1287.9	1258.2
37.5°	1402.2	1279.5	1169.6	1099.1	1055.8	1028.6	1013.9
40°	1212.4	1101.8	1011.3	954.2	921.3	890.6	886.2
42.5°	1061.0	958.2	890.1	844.6	813.0	799.9	790.5
45°	869.0	797.3	751.5	719.1	698.1	690.0	679.2
47.5°	735.5	684.8	650.5	628.4	612.6	606.6	605.7
50°	660.9	618.9	593.5	576.2	563.9	561.7	553.1
52.5°	604.8	568.4	548.7	533.6	524.7	518.6	516.0
55°	525.1	500.8	483.0	474.4	467.4	461.4	461.4
57.5°	459.4	439.1	427.4	420.0	417.9	413.7	411.0
60°	418.8	401.6	392.4	386.0	381.7	382.2	377.3
62.5°	379.2	368.0	359.3	352.8	347.6	347.7	348.0
65°	322.9	314.3	307.8	305.6	302.5	298.7	299.8
67.5°	273.6	265.5	260.5	256.8	255.7	253.7	256.8
70°	238.3	232.3	228.5	225.3	224.3	224.8	227.5
72.5°	205.9	201.7	199.2	197.7	195.4	195.4	197.3
75°	161.7	158.5	156.3	154.7	154.2	154.2	154.2
77.5°	118.8	118.0	117.1	114.7	114.8	115.5	115.6
80°	93.8	92.2	91.7	90.5	89.0	87.9	90.5
82.5°	70.1	68.4	67.9	67.7	65.2	65.0	67.3
85°	37.7	36.1	36.7	36.1	36.1	35.6	35.6
87.5°	17.6	17.3	17.0	17.5	17.1	16.7	17.7
90°	21.1	21.8	22.3	22.7	23.1	23.4	23.7
92.5°	32.1	32.6	32.8	32.6	32.4	32.2	31.9
95°	60.6	61.3	61.7	61.7	61.7	61.7	61.7
97.5°	94.0	94.8	95.1	95.1	95.1	95.0	94.9
100°	117.8	118.4	118.8	119.1	119.5	119.9	120.2
102.5°	145.7	146.2	146.4	146.3	146.2	146.2	146.2
105°	186.6	186.6	186.8	187.1	187.5	187.8	188.2
107.5°	232.1	232.7	232.8	232.7	232.4	232.2	232.0
110°	262.3	263.0	263.2	262.8	262.4	262.1	261.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	292.4	293.3	293.7	293.6	293.5	293.4	293.3
115°	337.4	337.5	337.5	337.4	337.2	337.1	336.8
117.5°	383.3	383.3	382.9	382.5	382.0	381.5	381.0
120°	413.8	413.7	413.4	413.0	412.7	412.3	412.0
122.5°	444.7	444.2	443.7	443.2	442.7	442.2	441.7
125°	490.5	489.8	489.1	488.5	487.7	487.0	486.3
127.5°	535.9	534.9	534.0	533.2	532.3	531.6	530.8
130°	566.4	565.8	564.7	563.6	562.3	561.1	559.8
132.5°	595.8	594.9	594.1	593.1	592.2	591.2	590.3
135°	640.0	639.3	638.7	638.4	638.0	637.7	637.4
137.5°	683.1	682.3	681.6	681.0	680.2	679.6	679.0
140°	711.9	711.8	711.1	709.9	708.6	707.4	706.2
142.5°	738.6	738.3	737.8	736.8	735.9	734.9	734.0
145°	777.6	777.4	777.0	776.3	775.5	774.8	774.1
147.5°	814.7	814.7	814.1	813.1	812.0	811.0	809.9
150°	837.4	837.4	836.9	835.8	834.8	833.7	832.7
152.5°	858.5	858.8	858.5	857.5	856.7	855.7	854.8
155°	889.4	890.0	889.8	888.6	887.3	886.1	884.9
157.5°	915.5	916.3	916.2	915.2	914.2	913.2	912.2
160°	931.8	932.6	932.7	932.1	931.4	930.7	929.9
162.5°	947.0	947.8	947.7	946.6	945.5	944.4	943.3
165°	966.3	967.3	967.3	966.1	964.8	963.6	962.3
167.5°	981.9	983.0	983.0	981.9	980.8	979.8	978.7
170°	990.5	991.8	991.8	990.5	989.4	988.1	986.9
172.5°	997.1	998.1	998.1	996.9	995.7	994.4	993.2
175°	1004.2	1005.4	1005.2	1004.0	1002.7	1001.6	1000.3
177.5°	1007.3	1008.1	1008.1	1007.1	1006.1	1005.1	1004.1
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6

(END OF REPORT)