

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: P332073

Luminaire Tested: **S123DIP-S1165D1025U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332073  
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-S1165D1025U835-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 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: 8420.4 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

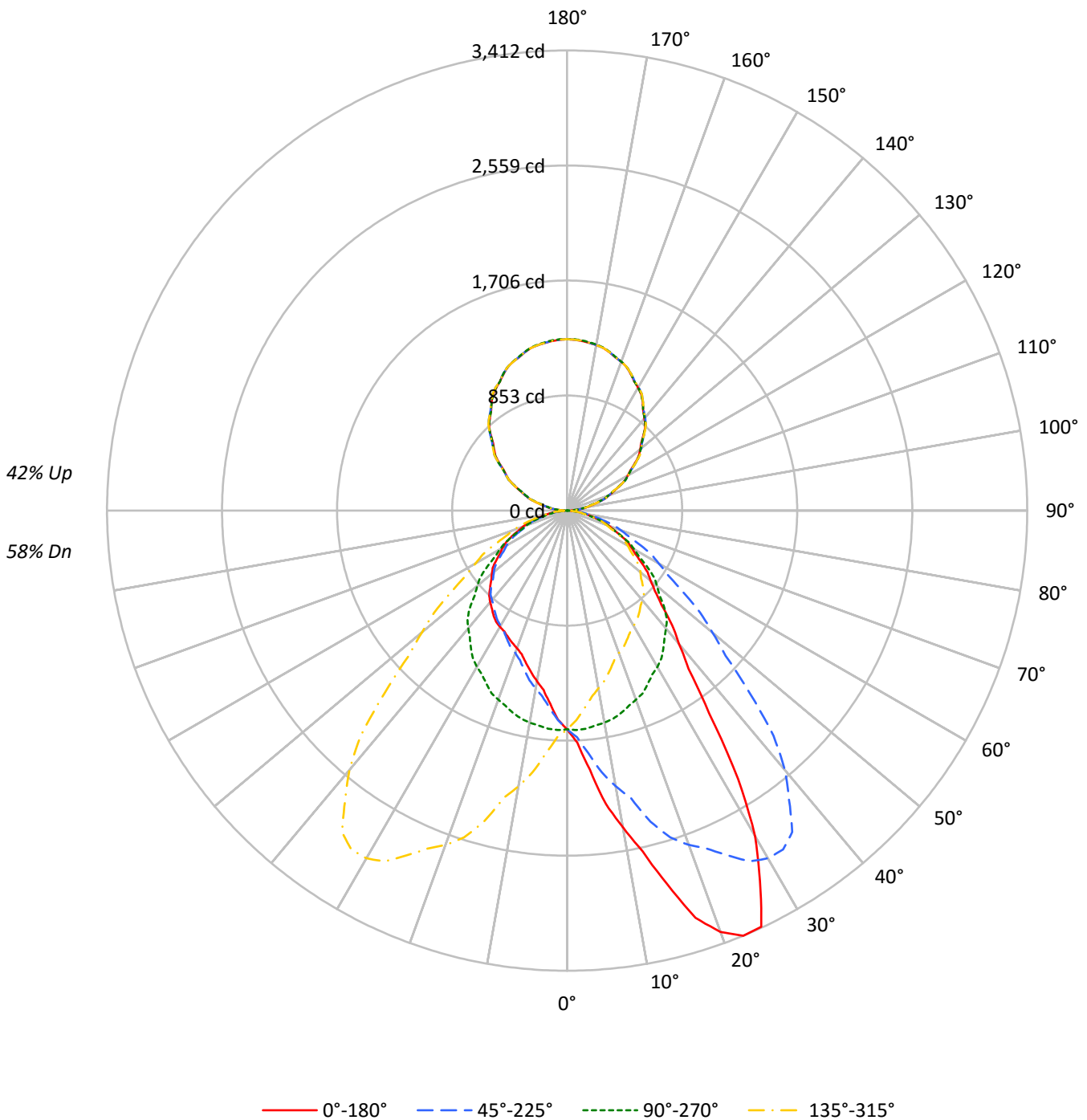
Input Watts (W): 66.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	54	50
2	91	84	78	73	85	79	73	69	68	64	61	59	56	53	50	48	46	42
3	83	74	67	61	78	69	63	58	61	56	51	52	49	45	45	42	40	36
4	76	66	58	52	71	62	55	49	54	48	44	47	43	39	40	37	34	31
5	70	59	51	45	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	29	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	26	24	21
8	56	43	36	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	40	32	27	48	37	31	26	33	28	24	29	25	21	26	22	19	17
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	17460	17460	17460	17460
5°	20822	17535	15540	17535
10°	26063	17446	14036	17446
15°	31967	17306	13067	17306
20°	38080	17087	12441	17087
25°	40435	16820	12302	16820
30°	34657	16625	12367	16625
35°	24103	16348	12496	16348
40°	18156	16024	12456	16024
45°	15075	15541	12298	15541
50°	13504	14555	12188	14555
55°	12624	13495	12035	13495
60°	11842	12385	11911	12385
65°	11130	11291	11530	11291
70°	10439	10043	10980	10043
75°	9349	8792	10069	8792
80°	8182	7209	8672	7209
85°	6410	5236	5829	5236



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.8	1.9
10°-20°	512.4	6.1
20°-30°	859.9	10.2
30°-40°	973.7	11.6
40°-50°	873.2	10.4
50°-60°	704.7	8.4
60°-70°	491.0	5.8
70°-80°	258.1	3.1
80°-90°	66.9	0.8
90°-100°	82.8	1.0
100°-110°	247.8	2.9
110°-120°	421.4	5.0
120°-130°	554.3	6.6
130°-140°	623.0	7.4
140°-150°	612.4	7.3
150°-160°	515.6	6.1
160°-170°	343.2	4.1
170°-180°	120.2	1.4
0°-30°	1532.1	18.2
0°-40°	2505.8	29.8
0°-60°	4083.7	48.5
0°-90°	4899.7	58.2
90°-120°	752.0	8.9
90°-150°	2541.8	30.2
90°-180°	3521.0	41.8
0°-180°	8420.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1622	1622	1622	1622	1622	
5°	1927	1623	1438	1623	1927	200
15°	2869	1553	1173	1553	2869	828
25°	3405	1416	1036	1416	3405	1493
35°	1834	1244	951	1244	1834	1192
45°	990	1021	808	1021	990	784
55°	673	719	641	719	673	604
65°	437	443	453	443	437	435
75°	225	211	242	211	225	241
85°	52	42	47	42	52	62
90°	30	1	30	1	30	17
95°	78	59	78	59	78	80
105°	238	225	238	225	238	252
115°	425	424	425	424	425	421
125°	614	621	614	621	614	549
135°	805	806	805	806	805	619
145°	977	977	977	977	977	610
155°	1117	1119	1117	1119	1117	514
165°	1215	1219	1215	1219	1215	343
175°	1263	1268	1263	1268	1263	120
180°	1271	1271	1271	1271	1271	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1721.5	1720.2	1717.1	1719.6	1714.6	1707.6	1707.0	1700.7	1682.5	1681.2	1676.2
5°	1927.1	1920.8	1920.0	1919.2	1908.2	1893.3	1865.0	1862.6	1824.9	1806.0	1783.3
7.5°	2193.3	2196.6	2185.2	2175.1	2141.5	2119.3	2089.0	2050.2	2003.8	1956.8	1925.5
10°	2384.5	2410.4	2378.2	2356.2	2335.8	2297.2	2252.5	2196.6	2140.8	2075.6	2026.1
12.5°	2589.5	2602.2	2595.7	2575.0	2543.2	2484.6	2405.2	2343.8	2292.4	2183.8	2139.9
15°	2868.6	2916.6	2885.9	2815.2	2816.7	2760.9	2657.2	2543.2	2482.7	2387.6	2258.0
17.5°	3166.0	3172.0	3158.9	3100.0	3060.7	2984.0	2888.3	2779.0	2656.4	2541.4	2403.8
20°	3324.4	3319.7	3292.2	3261.6	3194.0	3134.3	3029.7	2907.9	2750.7	2637.6	2487.4
22.5°	3412.5	3404.6	3391.6	3365.9	3309.7	3245.5	3151.7	3018.6	2868.9	2713.0	2539.6
25°	3404.6	3414.8	3416.4	3409.3	3389.7	3351.2	3277.3	3171.2	3021.9	2821.5	2640.7
27.5°	3096.5	3111.0	3153.0	3190.2	3231.9	3274.3	3268.6	3216.0	3105.5	2932.4	2711.4
30°	2788.4	2757.0	2834.8	2933.1	2999.9	3117.7	3183.8	3187.7	3125.6	2977.1	2761.7
32.5°	2360.9	2395.5	2429.9	2550.8	2696.8	2829.2	2960.6	3066.4	3078.5	2979.6	2791.3
35°	1834.3	1877.6	1940.4	2003.3	2160.5	2295.7	2526.7	2727.9	2888.3	2909.5	2793.9
37.5°	1478.2	1499.5	1539.3	1602.3	1705.1	1865.5	2044.2	2298.5	2530.8	2703.6	2711.1
40°	1292.1	1298.3	1343.1	1391.1	1474.4	1606.4	1767.5	1992.3	2270.5	2511.8	2612.4
42.5°	1152.5	1166.3	1185.3	1231.4	1297.7	1397.1	1546.9	1732.6	1987.6	2265.3	2462.1
45°	990.3	1006.0	1017.8	1048.4	1095.6	1162.4	1266.9	1436.7	1630.8	1917.6	2182.5
47.5°	883.1	884.3	893.1	916.2	948.3	998.4	1072.3	1181.4	1359.6	1592.3	1864.2
50°	806.4	818.9	822.1	840.1	865.3	902.2	963.5	1056.3	1202.5	1406.8	1656.7
52.5°	752.3	756.1	764.9	777.9	799.9	828.7	881.8	954.4	1069.2	1243.3	1473.1
55°	672.7	672.7	681.4	691.6	704.2	730.1	765.5	818.9	906.2	1041.3	1231.5
57.5°	599.2	603.1	609.2	612.4	623.1	640.2	669.8	710.3	775.4	879.4	1030.7
60°	550.1	557.2	556.4	562.7	572.2	585.5	610.7	643.7	701.8	785.1	912.5
62.5°	507.4	506.9	506.8	514.3	523.7	536.5	552.8	581.4	630.8	704.7	813.1
65°	437.0	435.4	440.9	445.6	448.8	458.2	470.8	495.9	528.9	583.9	668.0
67.5°	374.4	369.9	372.8	374.4	379.8	387.1	398.9	414.5	440.7	484.9	548.3
70°	331.7	327.7	326.9	328.5	333.2	338.7	347.4	362.3	386.7	422.0	468.4
72.5°	287.6	285.0	284.8	288.3	290.5	294.1	300.2	313.9	333.2	359.8	403.0
75°	224.8	224.8	224.8	225.6	227.9	231.1	235.8	242.8	257.8	276.6	305.7
77.5°	168.5	168.3	167.4	167.2	170.7	172.1	173.2	179.8	188.1	200.9	222.1
80°	132.0	128.1	129.7	132.0	133.6	134.4	136.8	138.3	145.4	152.5	167.4
82.5°	98.1	94.8	95.1	98.7	99.0	99.8	102.2	104.4	107.0	113.5	121.5
85°	51.9	51.9	52.7	52.7	53.4	52.7	55.0	55.8	55.8	59.7	64.4
87.5°	24.9	23.5	24.0	24.6	23.9	24.4	24.8	25.3	25.7	26.2	26.2
90°	29.9	29.5	29.1	28.6	28.2	27.5	26.6	25.7	24.8	24.0	21.1
92.5°	40.3	40.6	40.9	41.1	41.4	41.2	40.5	39.8	39.0	38.3	36.7
95°	77.9	77.9	77.9	77.9	77.9	77.4	76.5	75.6	74.8	73.9	72.1
97.5°	119.8	119.9	120.0	120.1	120.1	119.7	118.7	117.6	116.6	115.6	114.3
100°	151.7	151.3	150.8	150.4	150.0	149.4	148.7	148.1	147.4	146.7	145.6
102.5°	184.5	184.6	184.6	184.7	184.8	184.5	183.9	183.2	182.5	181.9	180.4
105°	237.6	237.1	236.7	236.2	235.8	235.6	235.6	235.6	235.6	235.6	233.6
107.5°	292.9	293.1	293.4	293.7	293.9	293.7	293.0	292.3	291.6	290.9	290.1
110°	330.4	330.9	331.3	331.7	332.2	332.0	331.1	330.2	329.3	328.4	328.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	370.3	370.4	370.5	370.6	370.7	370.2	369.1	368.1	367.0	365.9	365.9
115°	425.2	425.5	425.7	425.9	426.1	426.1	425.9	425.7	425.5	425.2	425.7
117.5°	480.9	481.6	482.2	482.8	483.4	483.8	483.8	483.8	483.9	483.9	484.5
120°	520.1	520.5	521.0	521.4	521.8	522.2	522.4	522.6	522.8	523.1	524.2
122.5°	557.6	558.2	558.8	559.5	560.1	560.7	561.3	561.8	562.4	563.0	563.6
125°	613.9	614.8	615.7	616.6	617.4	618.3	619.2	620.1	621.0	621.9	622.3
127.5°	670.0	671.0	672.0	673.1	674.1	675.2	676.5	677.7	678.9	680.2	680.7
130°	706.7	708.3	709.8	711.4	712.9	714.2	715.0	715.9	716.8	717.7	718.4
132.5°	745.1	746.3	747.5	748.7	749.9	751.0	752.1	753.1	754.2	755.2	755.7
135°	804.6	805.0	805.4	805.9	806.3	807.0	807.9	808.8	809.7	810.5	810.8
137.5°	857.1	857.9	858.7	859.6	860.4	861.3	862.3	863.2	864.1	865.0	864.5
140°	891.4	893.0	894.5	896.1	897.6	898.5	898.7	898.9	899.2	899.4	899.2
142.5°	926.5	927.7	928.9	930.1	931.3	932.0	932.3	932.5	932.7	932.9	932.5
145°	977.2	978.1	979.0	979.9	980.8	981.3	981.6	981.8	982.0	982.2	981.6
147.5°	1022.4	1023.7	1025.0	1026.4	1027.7	1028.4	1028.4	1028.4	1028.4	1028.4	1027.7
150°	1051.1	1052.4	1053.8	1055.1	1056.4	1057.1	1057.1	1057.1	1057.1	1057.1	1056.7
152.5°	1079.1	1080.2	1081.4	1082.5	1083.7	1084.1	1083.7	1083.4	1083.0	1082.7	1082.4
155°	1117.0	1118.5	1120.1	1121.7	1123.2	1123.5	1122.7	1121.8	1120.9	1120.0	1119.8
157.5°	1151.5	1152.8	1154.0	1155.3	1156.5	1156.7	1155.7	1154.8	1153.9	1152.9	1152.8
160°	1173.9	1174.8	1175.7	1176.6	1177.4	1177.3	1176.2	1175.1	1174.0	1172.9	1172.9
162.5°	1190.7	1192.1	1193.5	1194.9	1196.3	1196.5	1195.4	1194.3	1193.2	1192.1	1191.9
165°	1214.8	1216.4	1217.9	1219.5	1221.0	1221.1	1219.8	1218.5	1217.1	1215.8	1215.8
167.5°	1235.4	1236.8	1238.1	1239.5	1240.9	1240.9	1239.5	1238.1	1236.8	1235.4	1235.2
170°	1245.8	1247.3	1248.9	1250.4	1252.0	1252.0	1250.4	1248.9	1247.3	1245.8	1245.8
172.5°	1253.7	1255.3	1256.9	1258.4	1260.0	1260.0	1258.7	1257.3	1255.9	1254.5	1254.5
175°	1262.7	1264.3	1265.8	1267.4	1268.9	1269.1	1267.7	1266.4	1265.1	1263.7	1263.7
177.5°	1267.5	1268.8	1270.0	1271.3	1272.5	1272.6	1271.5	1270.5	1269.4	1268.3	1268.3
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1672.4	1667.4	1662.4	1653.6	1646.0	1635.3	1632.2	1628.4	1617.1	1607.1	1599.5
5°	1774.6	1755.7	1728.2	1703.1	1682.7	1655.2	1639.4	1622.9	1599.3	1578.1	1560.8
7.5°	1881.5	1844.4	1801.6	1755.4	1712.4	1670.9	1637.4	1607.5	1574.5	1543.2	1518.9
10°	1966.4	1912.9	1853.2	1788.8	1733.7	1680.3	1635.5	1596.2	1553.8	1516.8	1486.2
12.5°	2063.2	1984.0	1901.6	1823.3	1758.3	1684.1	1629.8	1579.9	1531.8	1487.3	1452.9
15°	2177.8	2077.2	1979.7	1872.1	1773.0	1680.3	1615.9	1553.0	1497.2	1451.6	1407.6
17.5°	2282.2	2168.2	2039.8	1908.8	1789.4	1679.4	1589.1	1518.1	1448.3	1392.5	1348.6
20°	2341.3	2211.6	2066.2	1930.2	1798.2	1675.6	1576.6	1491.7	1416.2	1357.3	1307.8
22.5°	2392.2	2240.5	2090.1	1944.7	1797.6	1665.5	1553.3	1465.9	1384.2	1326.5	1273.8
25°	2445.0	2263.5	2112.6	1942.0	1777.8	1641.0	1515.3	1416.2	1334.5	1266.9	1212.7
27.5°	2490.3	2261.9	2082.8	1899.4	1746.6	1609.6	1475.3	1369.1	1282.3	1208.9	1153.9
30°	2520.4	2265.0	2052.0	1870.5	1716.5	1575.0	1444.5	1337.6	1246.5	1171.8	1119.9
32.5°	2539.3	2263.1	2023.7	1830.3	1668.7	1543.5	1411.2	1300.5	1206.9	1133.5	1083.5
35°	2550.3	2249.3	1975.0	1747.1	1591.5	1469.7	1358.9	1244.1	1145.9	1077.5	1020.9
37.5°	2528.3	2220.2	1918.4	1666.9	1496.6	1376.6	1283.4	1185.6	1091.6	1016.4	967.6
40°	2493.7	2201.4	1874.4	1610.4	1431.2	1315.6	1236.3	1140.4	1047.6	976.1	930.5
42.5°	2427.7	2163.0	1826.0	1547.5	1363.3	1247.7	1174.6	1094.5	1006.8	939.6	894.1
45°	2266.6	2079.5	1753.4	1453.2	1263.0	1143.5	1079.1	1020.9	941.5	876.3	837.0
47.5°	2043.1	1954.0	1648.4	1353.7	1158.3	1043.4	976.4	929.6	871.6	818.9	781.2
50°	1887.8	1850.8	1577.3	1285.8	1088.5	976.1	911.7	869.2	827.6	774.9	740.3
52.5°	1708.6	1731.4	1494.4	1215.3	1017.5	907.0	846.3	812.6	774.8	731.5	701.4
55°	1456.3	1538.8	1351.0	1097.1	911.7	806.4	749.0	719.1	697.1	664.9	639.0
57.5°	1220.1	1325.1	1196.0	975.3	807.8	716.9	661.9	629.4	615.2	598.4	578.0
60°	1079.9	1183.6	1085.4	893.6	738.0	651.5	602.8	575.3	561.1	549.4	532.1
62.5°	954.7	1059.7	977.2	810.6	669.4	589.3	546.8	520.0	509.0	502.8	488.1
65°	782.8	873.2	818.1	681.4	571.4	500.6	462.1	443.3	433.0	430.7	421.3
67.5°	637.1	705.9	665.8	565.2	478.6	417.5	384.8	368.8	360.9	360.1	353.0
70°	541.5	605.9	575.3	484.1	409.5	361.5	333.2	319.1	314.4	313.6	309.7
72.5°	467.3	512.3	487.9	411.8	354.1	310.6	289.8	275.1	269.7	270.8	268.2
75°	345.8	379.6	365.5	312.8	266.4	238.1	220.8	211.4	206.7	209.1	205.9
77.5°	248.8	270.2	257.5	221.0	192.4	172.0	159.2	153.4	149.2	149.0	147.6
80°	187.8	200.4	193.3	171.3	147.8	130.5	120.2	116.3	114.0	113.2	112.4
82.5°	133.8	144.5	136.1	121.0	105.0	94.6	88.8	83.6	81.9	82.4	81.6
85°	67.6	71.5	68.4	58.9	52.7	47.9	44.8	42.4	40.9	41.7	40.1
87.5°	26.9	27.0	24.5	21.5	19.8	17.4	17.0	15.3	14.5	14.9	14.7
90°	18.2	15.3	12.4	9.9	7.7	5.4	3.2	1.0	3.2	5.4	7.7
92.5°	35.0	33.4	31.8	30.2	28.7	27.2	25.7	24.2	25.7	27.2	28.7
95°	70.3	68.5	66.8	65.1	63.6	62.0	60.4	58.9	60.4	62.0	63.6
97.5°	113.0	111.7	110.4	109.2	108.1	106.9	105.8	104.6	105.8	106.9	108.1
100°	144.5	143.4	142.3	141.1	139.7	138.4	137.1	135.8	137.1	138.4	139.7
102.5°	178.9	177.5	176.0	174.9	174.1	173.3	172.5	171.7	172.5	173.3	174.1
105°	231.6	229.6	227.6	226.4	225.9	225.5	225.0	224.6	225.0	225.5	225.9
107.5°	289.3	288.5	287.7	287.2	286.9	286.6	286.4	286.1	286.4	286.6	286.9
110°	327.5	327.1	326.6	326.2	325.7	325.3	324.9	324.4	324.9	325.3	325.7





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	365.8	365.7	365.6	365.4	365.1	364.9	364.6	364.3	364.6	364.9	365.1
115°	426.1	426.6	427.0	426.9	426.2	425.6	424.9	424.2	424.9	425.6	426.2
117.5°	485.1	485.7	486.2	486.3	485.9	485.4	485.0	484.5	485.0	485.4	485.9
120°	525.3	526.4	527.5	527.4	526.1	524.7	523.4	522.1	523.4	524.7	526.1
122.5°	564.1	564.7	565.3	565.1	564.1	563.1	562.2	561.2	562.2	563.1	564.1
125°	622.8	623.2	623.7	623.5	622.9	622.2	621.6	620.9	621.6	622.2	622.9
127.5°	681.2	681.6	682.1	681.7	680.2	678.8	677.4	676.0	677.4	678.8	680.2
130°	719.0	719.7	720.4	719.8	718.0	716.3	714.5	712.7	714.5	716.3	718.0
132.5°	756.2	756.7	757.2	756.6	754.8	753.0	751.2	749.5	751.2	753.0	754.8
135°	811.0	811.2	811.4	810.9	809.5	808.2	806.9	805.6	806.9	808.2	809.5
137.5°	863.9	863.3	862.7	861.9	860.8	859.7	858.6	857.5	858.6	859.7	860.8
140°	898.9	898.7	898.5	897.8	896.7	895.6	894.5	893.4	894.5	895.6	896.7
142.5°	932.1	931.7	931.3	930.6	929.5	928.4	927.2	926.1	927.2	928.4	929.5
145°	980.9	980.2	979.6	979.0	978.6	978.1	977.7	977.2	977.7	978.1	978.6
147.5°	1027.1	1026.5	1025.9	1025.2	1024.4	1023.6	1022.8	1022.0	1022.8	1023.6	1024.4
150°	1056.2	1055.8	1055.3	1054.9	1054.4	1054.0	1053.6	1053.1	1053.6	1054.0	1054.4
152.5°	1082.1	1081.9	1081.6	1081.1	1080.5	1079.9	1079.3	1078.7	1079.3	1079.9	1080.5
155°	1119.5	1119.3	1119.1	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0
157.5°	1152.6	1152.4	1152.2	1152.3	1152.5	1152.8	1153.1	1153.3	1153.1	1152.8	1152.5
160°	1172.9	1172.9	1172.9	1173.1	1173.6	1174.0	1174.4	1174.9	1174.4	1174.0	1173.6
162.5°	1191.7	1191.5	1191.4	1191.6	1192.2	1192.8	1193.4	1194.1	1193.4	1192.8	1192.2
165°	1215.8	1215.8	1215.8	1216.2	1216.8	1217.5	1218.1	1218.8	1218.1	1217.5	1216.8
167.5°	1235.0	1234.9	1234.7	1235.0	1235.9	1236.8	1237.7	1238.6	1237.7	1236.8	1235.9
170°	1245.8	1245.8	1245.8	1246.2	1247.1	1248.0	1248.9	1249.8	1248.9	1248.0	1247.1
172.5°	1254.5	1254.5	1254.5	1255.0	1255.9	1256.8	1257.7	1258.5	1257.7	1256.8	1255.9
175°	1263.7	1263.7	1263.7	1264.2	1265.1	1265.9	1266.8	1267.7	1266.8	1265.9	1265.1
177.5°	1268.3	1268.3	1268.3	1268.7	1269.4	1270.1	1270.8	1271.5	1270.8	1270.1	1269.4
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1595.1	1590.7	1584.4	1575.0	1567.4	1555.5	1555.5	1557.4	1557.4	1556.8	1555.5
5°	1546.7	1534.9	1520.8	1504.3	1487.0	1469.7	1466.5	1460.2	1455.5	1452.4	1448.5
7.5°	1495.6	1474.7	1454.1	1431.0	1409.9	1392.5	1380.4	1370.3	1363.9	1357.0	1351.9
10°	1461.0	1435.1	1410.7	1386.4	1359.6	1338.4	1325.1	1315.6	1308.6	1302.3	1299.1
12.5°	1420.2	1390.5	1363.6	1340.5	1311.2	1289.4	1276.7	1272.2	1263.9	1250.7	1243.8
15°	1360.4	1332.9	1300.7	1265.3	1251.2	1224.5	1209.5	1202.5	1197.7	1187.5	1184.4
17.5°	1309.3	1273.3	1237.2	1210.8	1184.5	1162.8	1154.5	1145.7	1139.4	1131.1	1128.6
20°	1268.5	1236.3	1203.2	1175.0	1147.4	1123.9	1116.8	1110.5	1104.2	1100.3	1097.1
22.5°	1227.0	1194.8	1167.4	1141.0	1111.6	1096.2	1088.5	1081.6	1077.2	1074.5	1071.4
25°	1168.7	1140.4	1109.7	1086.1	1062.6	1052.3	1047.6	1043.7	1040.6	1036.6	1035.8
27.5°	1116.5	1085.7	1060.8	1038.8	1021.9	1013.4	1008.8	1006.9	1007.6	1009.0	1009.9
30°	1077.5	1049.2	1028.8	1009.9	994.2	986.3	985.5	985.5	988.7	989.5	991.0
32.5°	1041.7	1018.4	998.0	979.7	967.8	962.4	965.4	965.4	967.9	970.0	972.8
35°	989.5	969.0	953.3	937.6	927.4	929.7	931.3	932.9	936.8	941.5	944.7
37.5°	939.6	921.9	905.5	893.3	888.6	892.8	896.6	899.9	904.4	908.1	911.2
40°	903.8	890.4	874.7	863.7	865.3	867.7	870.8	874.7	878.7	881.0	884.2
42.5°	870.5	856.5	844.6	835.4	837.6	840.6	842.5	844.6	849.1	853.4	855.2
45°	819.7	808.7	797.7	792.2	793.8	795.4	796.9	799.3	803.2	806.4	807.1
47.5°	762.7	755.0	747.6	742.2	744.7	744.1	746.2	751.2	752.4	754.3	758.7
50°	726.2	719.1	710.5	708.9	708.9	708.9	709.7	716.0	716.0	719.1	722.3
52.5°	686.0	681.4	675.9	673.1	671.8	671.8	675.1	678.3	679.5	683.9	687.1
55°	626.4	621.7	616.9	614.6	613.0	614.6	620.9	622.4	626.4	628.7	631.1
57.5°	564.3	560.7	556.9	555.6	555.3	557.4	560.8	565.5	566.5	573.7	577.3
60°	523.4	517.9	514.8	514.8	513.2	520.3	518.7	526.6	528.1	532.9	538.4
62.5°	481.3	473.9	472.7	472.7	474.9	476.9	479.1	482.6	486.6	492.6	496.9
65°	413.4	409.5	415.0	414.2	412.6	417.3	417.3	421.3	426.0	431.5	440.1
67.5°	349.1	347.1	347.5	347.5	349.9	352.6	354.8	358.2	363.9	369.7	375.4
70°	305.7	308.1	304.2	307.3	309.7	310.4	312.0	316.7	323.0	326.9	333.2
72.5°	263.6	263.4	263.9	265.2	267.5	268.9	270.5	275.9	282.8	286.1	291.1
75°	202.8	202.0	204.3	204.3	208.3	209.8	211.4	213.8	220.1	224.8	228.7
77.5°	148.1	149.0	148.5	151.2	150.1	150.4	155.3	157.7	158.3	167.6	169.6
80°	111.6	113.2	114.0	114.7	115.5	114.0	119.5	121.8	121.8	127.3	131.2
82.5°	80.2	81.1	83.2	83.9	84.1	85.7	86.1	87.9	89.8	92.1	97.3
85°	40.1	42.4	43.2	42.4	43.2	41.7	44.0	44.8	45.6	45.6	45.6
87.5°	14.5	15.7	15.6	16.8	16.8	18.0	18.2	17.1	17.3	19.3	17.0
90°	9.9	12.4	15.3	18.2	21.1	24.0	24.8	25.7	26.6	27.5	28.2
92.5°	30.2	31.8	33.4	35.0	36.7	38.3	39.0	39.8	40.5	41.2	41.4
95°	65.1	66.8	68.5	70.3	72.1	73.9	74.8	75.6	76.5	77.4	77.9
97.5°	109.2	110.4	111.7	113.0	114.3	115.6	116.6	117.6	118.7	119.7	120.1
100°	141.1	142.3	143.4	144.5	145.6	146.7	147.4	148.1	148.7	149.4	150.0
102.5°	174.9	176.0	177.5	178.9	180.4	181.9	182.5	183.2	183.9	184.5	184.8
105°	226.4	227.6	229.6	231.6	233.6	235.6	235.6	235.6	235.6	235.6	235.8
107.5°	287.2	287.7	288.5	289.3	290.1	290.9	291.6	292.3	293.0	293.7	293.9
110°	326.2	326.6	327.1	327.5	328.0	328.4	329.3	330.2	331.1	332.0	332.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	365.4	365.6	365.7	365.8	365.9	365.9	367.0	368.1	369.1	370.2	370.7
115°	426.9	427.0	426.6	426.1	425.7	425.2	425.5	425.7	425.9	426.1	426.1
117.5°	486.3	486.2	485.7	485.1	484.5	483.9	483.9	483.8	483.8	483.8	483.4
120°	527.4	527.5	526.4	525.3	524.2	523.1	522.8	522.6	522.4	522.2	521.8
122.5°	565.1	565.3	564.7	564.1	563.6	563.0	562.4	561.8	561.3	560.7	560.1
125°	623.5	623.7	623.2	622.8	622.3	621.9	621.0	620.1	619.2	618.3	617.4
127.5°	681.7	682.1	681.6	681.2	680.7	680.2	678.9	677.7	676.5	675.2	674.1
130°	719.8	720.4	719.7	719.0	718.4	717.7	716.8	715.9	715.0	714.2	712.9
132.5°	756.6	757.2	756.7	756.2	755.7	755.2	754.2	753.1	752.1	751.0	749.9
135°	810.9	811.4	811.2	811.0	810.8	810.5	809.7	808.8	807.9	807.0	806.3
137.5°	861.9	862.7	863.3	863.9	864.5	865.0	864.1	863.2	862.3	861.3	860.4
140°	897.8	898.5	898.7	898.9	899.2	899.4	899.2	898.9	898.7	898.5	897.6
142.5°	930.6	931.3	931.7	932.1	932.5	932.9	932.7	932.5	932.3	932.0	931.3
145°	979.0	979.6	980.2	980.9	981.6	982.2	982.0	981.8	981.6	981.3	980.8
147.5°	1025.2	1025.9	1026.5	1027.1	1027.7	1028.4	1028.4	1028.4	1028.4	1028.4	1027.7
150°	1054.9	1055.3	1055.8	1056.2	1056.7	1057.1	1057.1	1057.1	1057.1	1057.1	1056.4
152.5°	1081.1	1081.6	1081.9	1082.1	1082.4	1082.7	1083.0	1083.4	1083.7	1084.1	1083.7
155°	1119.0	1119.1	1119.3	1119.5	1119.8	1120.0	1120.9	1121.8	1122.7	1123.5	1123.2
157.5°	1152.3	1152.2	1152.4	1152.6	1152.8	1152.9	1153.9	1154.8	1155.7	1156.7	1156.5
160°	1173.1	1172.9	1172.9	1172.9	1172.9	1172.9	1174.0	1175.1	1176.2	1177.3	1177.4
162.5°	1191.6	1191.4	1191.5	1191.7	1191.9	1192.1	1193.2	1194.3	1195.4	1196.5	1196.3
165°	1216.2	1215.8	1215.8	1215.8	1215.8	1215.8	1217.1	1218.5	1219.8	1221.1	1221.0
167.5°	1235.0	1234.7	1234.9	1235.0	1235.2	1235.4	1236.8	1238.1	1239.5	1240.9	1240.9
170°	1246.2	1245.8	1245.8	1245.8	1245.8	1245.8	1247.3	1248.9	1250.4	1252.0	1252.0
172.5°	1255.0	1254.5	1254.5	1254.5	1254.5	1254.5	1255.9	1257.3	1258.7	1260.0	1260.0
175°	1264.2	1263.7	1263.7	1263.7	1263.7	1263.7	1265.1	1266.4	1267.7	1269.1	1268.9
177.5°	1268.7	1268.3	1268.3	1268.3	1268.3	1268.3	1269.4	1270.5	1271.5	1272.6	1272.5
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1551.1	1550.5	1554.9	1551.7	1554.9	1550.5	1551.1	1555.5	1556.8	1557.4	1557.4
5°	1443.7	1446.1	1438.2	1438.2	1438.2	1446.1	1443.7	1448.5	1452.4	1455.5	1460.2
7.5°	1348.2	1344.7	1345.0	1340.8	1345.0	1344.7	1348.2	1351.9	1357.0	1363.9	1370.3
10°	1289.7	1285.0	1283.4	1284.2	1283.4	1285.0	1289.7	1299.1	1302.3	1308.6	1315.6
12.5°	1241.3	1240.3	1230.0	1230.1	1230.0	1240.3	1241.3	1243.8	1250.7	1263.9	1272.2
15°	1184.4	1169.5	1167.9	1172.6	1167.9	1169.5	1184.4	1184.4	1187.5	1197.7	1202.5
17.5°	1127.3	1119.5	1119.9	1117.6	1119.9	1119.5	1127.3	1128.6	1131.1	1139.4	1145.7
20°	1097.1	1092.4	1091.6	1086.1	1091.6	1092.4	1097.1	1097.1	1100.3	1104.2	1110.5
22.5°	1069.5	1067.9	1068.4	1062.3	1068.4	1067.9	1069.5	1071.4	1074.5	1077.2	1081.6
25°	1035.1	1039.0	1035.8	1035.8	1035.8	1039.0	1035.1	1035.8	1036.6	1040.6	1043.7
27.5°	1011.8	1011.6	1010.1	1010.1	1010.1	1011.6	1011.8	1009.9	1009.0	1007.6	1006.9
30°	994.2	993.4	995.0	995.0	995.0	993.4	994.2	991.0	989.5	988.7	985.5
32.5°	976.6	977.7	978.0	978.6	978.0	977.7	976.6	972.8	970.0	967.9	965.4
35°	949.4	950.2	952.5	951.0	952.5	950.2	949.4	944.7	941.5	936.8	932.9
37.5°	912.6	916.2	915.4	916.7	915.4	916.2	912.6	911.2	908.1	904.4	899.9
40°	884.9	887.3	886.5	886.5	886.5	887.3	884.9	884.2	881.0	878.7	874.7
42.5°	856.7	858.4	856.3	855.1	856.3	858.4	856.7	855.2	853.4	849.1	844.6
45°	810.3	808.7	811.1	807.9	811.1	808.7	810.3	807.1	806.4	803.2	799.3
47.5°	758.4	760.0	760.6	763.0	760.6	760.0	758.4	758.7	754.3	752.4	751.2
50°	723.8	728.5	728.5	727.8	728.5	728.5	723.8	722.3	719.1	716.0	716.0
52.5°	689.9	692.1	695.2	695.1	695.2	692.1	689.9	687.1	683.9	679.5	678.3
55°	637.4	639.0	640.5	641.3	640.5	639.0	637.4	631.1	628.7	626.4	622.4
57.5°	583.0	582.4	586.1	587.2	586.1	582.4	583.0	577.3	573.7	566.5	565.5
60°	544.6	544.6	550.9	553.3	550.9	544.6	544.6	538.4	532.9	528.1	526.6
62.5°	503.8	506.3	512.6	509.3	512.6	506.3	503.8	496.9	492.6	486.6	482.6
65°	444.0	450.3	449.5	452.7	449.5	450.3	444.0	440.1	431.5	426.0	421.3
67.5°	381.6	385.6	391.2	391.7	391.2	385.6	381.6	375.4	369.7	363.9	358.2
70°	339.5	343.4	346.6	348.9	346.6	343.4	339.5	333.2	326.9	323.0	316.7
72.5°	298.7	300.7	308.2	304.9	308.2	300.7	298.7	291.1	286.1	282.8	275.9
75°	234.2	239.7	244.4	242.1	244.4	239.7	234.2	228.7	224.8	220.1	213.8
77.5°	173.2	178.7	180.9	178.9	180.9	178.7	173.2	169.6	167.6	158.3	157.7
80°	136.8	136.0	140.7	139.9	140.7	136.0	136.8	131.2	127.3	121.8	121.8
82.5°	100.3	99.5	101.7	102.2	101.7	99.5	100.3	97.3	92.1	89.8	87.9
85°	48.7	51.1	47.9	47.2	47.9	51.1	48.7	45.6	45.6	45.6	44.8
87.5°	17.0	17.1	16.6	16.0	16.6	17.1	17.0	17.0	19.3	17.3	17.1
90°	28.6	29.1	29.5	29.9	29.5	29.1	28.6	28.2	27.5	26.6	25.7
92.5°	41.1	40.9	40.6	40.3	40.6	40.9	41.1	41.4	41.2	40.5	39.8
95°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.4	76.5	75.6
97.5°	120.1	120.0	119.9	119.8	119.9	120.0	120.1	120.1	119.7	118.7	117.6
100°	150.4	150.8	151.3	151.7	151.3	150.8	150.4	150.0	149.4	148.7	148.1
102.5°	184.7	184.6	184.6	184.5	184.6	184.6	184.7	184.8	184.5	183.9	183.2
105°	236.2	236.7	237.1	237.6	237.1	236.7	236.2	235.8	235.6	235.6	235.6
107.5°	293.7	293.4	293.1	292.9	293.1	293.4	293.7	293.9	293.7	293.0	292.3
110°	331.7	331.3	330.9	330.4	330.9	331.3	331.7	332.2	332.0	331.1	330.2



TEST NUMBER: P332073

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	370.6	370.5	370.4	370.3	370.4	370.5	370.6	370.7	370.2	369.1	368.1
115°	425.9	425.7	425.5	425.2	425.5	425.7	425.9	426.1	426.1	425.9	425.7
117.5°	482.8	482.2	481.6	480.9	481.6	482.2	482.8	483.4	483.8	483.8	483.8
120°	521.4	521.0	520.5	520.1	520.5	521.0	521.4	521.8	522.2	522.4	522.6
122.5°	559.5	558.8	558.2	557.6	558.2	558.8	559.5	560.1	560.7	561.3	561.8
125°	616.6	615.7	614.8	613.9	614.8	615.7	616.6	617.4	618.3	619.2	620.1
127.5°	673.1	672.0	671.0	670.0	671.0	672.0	673.1	674.1	675.2	676.5	677.7
130°	711.4	709.8	708.3	706.7	708.3	709.8	711.4	712.9	714.2	715.0	715.9
132.5°	748.7	747.5	746.3	745.1	746.3	747.5	748.7	749.9	751.0	752.1	753.1
135°	805.9	805.4	805.0	804.6	805.0	805.4	805.9	806.3	807.0	807.9	808.8
137.5°	859.6	858.7	857.9	857.1	857.9	858.7	859.6	860.4	861.3	862.3	863.2
140°	896.1	894.5	893.0	891.4	893.0	894.5	896.1	897.6	898.5	898.7	898.9
142.5°	930.1	928.9	927.7	926.5	927.7	928.9	930.1	931.3	932.0	932.3	932.5
145°	979.9	979.0	978.1	977.2	978.1	979.0	979.9	980.8	981.3	981.6	981.8
147.5°	1026.4	1025.0	1023.7	1022.4	1023.7	1025.0	1026.4	1027.7	1028.4	1028.4	1028.4
150°	1055.1	1053.8	1052.4	1051.1	1052.4	1053.8	1055.1	1056.4	1057.1	1057.1	1057.1
152.5°	1082.5	1081.4	1080.2	1079.1	1080.2	1081.4	1082.5	1083.7	1084.1	1083.7	1083.4
155°	1121.7	1120.1	1118.5	1117.0	1118.5	1120.1	1121.7	1123.2	1123.5	1122.7	1121.8
157.5°	1155.3	1154.0	1152.8	1151.5	1152.8	1154.0	1155.3	1156.5	1156.7	1155.7	1154.8
160°	1176.6	1175.7	1174.8	1173.9	1174.8	1175.7	1176.6	1177.4	1177.3	1176.2	1175.1
162.5°	1194.9	1193.5	1192.1	1190.7	1192.1	1193.5	1194.9	1196.3	1196.5	1195.4	1194.3
165°	1219.5	1217.9	1216.4	1214.8	1216.4	1217.9	1219.5	1221.0	1221.1	1219.8	1218.5
167.5°	1239.5	1238.1	1236.8	1235.4	1236.8	1238.1	1239.5	1240.9	1240.9	1239.5	1238.1
170°	1250.4	1248.9	1247.3	1245.8	1247.3	1248.9	1250.4	1252.0	1252.0	1250.4	1248.9
172.5°	1258.4	1256.9	1255.3	1253.7	1255.3	1256.9	1258.4	1260.0	1260.0	1258.7	1257.3
175°	1267.4	1265.8	1264.3	1262.7	1264.3	1265.8	1267.4	1268.9	1269.1	1267.7	1266.4
177.5°	1271.3	1270.0	1268.8	1267.5	1268.8	1270.0	1271.3	1272.5	1272.6	1271.5	1270.5
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1555.5	1555.5	1567.4	1575.0	1584.4	1590.7	1595.1	1599.5	1607.1	1617.1	1628.4
5°	1466.5	1469.7	1487.0	1504.3	1520.8	1534.9	1546.7	1560.8	1578.1	1599.3	1622.9
7.5°	1380.4	1392.5	1409.9	1431.0	1454.1	1474.7	1495.6	1518.9	1543.2	1574.5	1607.5
10°	1325.1	1338.4	1359.6	1386.4	1410.7	1435.1	1461.0	1486.2	1516.8	1553.8	1596.2
12.5°	1276.7	1289.4	1311.2	1340.5	1363.6	1390.5	1420.2	1452.9	1487.3	1531.8	1579.9
15°	1209.5	1224.5	1251.2	1265.3	1300.7	1332.9	1360.4	1407.6	1451.6	1497.2	1553.0
17.5°	1154.5	1162.8	1184.5	1210.8	1237.2	1273.3	1309.3	1348.6	1392.5	1448.3	1518.1
20°	1116.8	1123.9	1147.4	1175.0	1203.2	1236.3	1268.5	1307.8	1357.3	1416.2	1491.7
22.5°	1088.5	1096.2	1111.6	1141.0	1167.4	1194.8	1227.0	1273.8	1326.5	1384.2	1465.9
25°	1047.6	1052.3	1062.6	1086.1	1109.7	1140.4	1168.7	1212.7	1266.9	1334.5	1416.2
27.5°	1008.8	1013.4	1021.9	1038.8	1060.8	1085.7	1116.5	1153.9	1208.9	1282.3	1369.1
30°	985.5	986.3	994.2	1009.9	1028.8	1049.2	1077.5	1119.9	1171.8	1246.5	1337.6
32.5°	965.4	962.4	967.8	979.7	998.0	1018.4	1041.7	1083.5	1133.5	1206.9	1300.5
35°	931.3	929.7	927.4	937.6	953.3	969.0	989.5	1020.9	1077.5	1145.9	1244.1
37.5°	896.6	892.8	888.6	893.3	905.5	921.9	939.6	967.6	1016.4	1091.6	1185.6
40°	870.8	867.7	865.3	863.7	874.7	890.4	903.8	930.5	976.1	1047.6	1140.4
42.5°	842.5	840.6	837.6	835.4	844.6	856.5	870.5	894.1	939.6	1006.8	1094.5
45°	796.9	795.4	793.8	792.2	797.7	808.7	819.7	837.0	876.3	941.5	1020.9
47.5°	746.2	744.1	744.7	742.2	747.6	755.0	762.7	781.2	818.9	871.6	929.6
50°	709.7	708.9	708.9	708.9	710.5	719.1	726.2	740.3	774.9	827.6	869.2
52.5°	675.1	671.8	671.8	673.1	675.9	681.4	686.0	701.4	731.5	774.8	812.6
55°	620.9	614.6	613.0	614.6	616.9	621.7	626.4	639.0	664.9	697.1	719.1
57.5°	560.8	557.4	555.3	555.6	556.9	560.7	564.3	578.0	598.4	615.2	629.4
60°	518.7	520.3	513.2	514.8	514.8	517.9	523.4	532.1	549.4	561.1	575.3
62.5°	479.1	476.9	474.9	472.7	472.7	473.9	481.3	488.1	502.8	509.0	520.0
65°	417.3	417.3	412.6	414.2	415.0	409.5	413.4	421.3	430.7	433.0	443.3
67.5°	354.8	352.6	349.9	347.5	347.5	347.1	349.1	353.0	360.1	360.9	368.8
70°	312.0	310.4	309.7	307.3	304.2	308.1	305.7	309.7	313.6	314.4	319.1
72.5°	270.5	268.9	267.5	265.2	263.9	263.4	263.6	268.2	270.8	269.7	275.1
75°	211.4	209.8	208.3	204.3	204.3	202.0	202.8	205.9	209.1	206.7	211.4
77.5°	155.3	150.4	150.1	151.2	148.5	149.0	148.1	147.6	149.0	149.2	153.4
80°	119.5	114.0	115.5	114.7	114.0	113.2	111.6	112.4	113.2	114.0	116.3
82.5°	86.1	85.7	84.1	83.9	83.2	81.1	80.2	81.6	82.4	81.9	83.6
85°	44.0	41.7	43.2	42.4	43.2	42.4	40.1	40.1	41.7	40.9	42.4
87.5°	18.2	18.0	16.8	16.8	15.6	15.7	14.5	14.7	14.9	14.5	15.3
90°	24.8	24.0	21.1	18.2	15.3	12.4	9.9	7.7	5.4	3.2	1.0
92.5°	39.0	38.3	36.7	35.0	33.4	31.8	30.2	28.7	27.2	25.7	24.2
95°	74.8	73.9	72.1	70.3	68.5	66.8	65.1	63.6	62.0	60.4	58.9
97.5°	116.6	115.6	114.3	113.0	111.7	110.4	109.2	108.1	106.9	105.8	104.6
100°	147.4	146.7	145.6	144.5	143.4	142.3	141.1	139.7	138.4	137.1	135.8
102.5°	182.5	181.9	180.4	178.9	177.5	176.0	174.9	174.1	173.3	172.5	171.7
105°	235.6	235.6	233.6	231.6	229.6	227.6	226.4	225.9	225.5	225.0	224.6
107.5°	291.6	290.9	290.1	289.3	288.5	287.7	287.2	286.9	286.6	286.4	286.1
110°	329.3	328.4	328.0	327.5	327.1	326.6	326.2	325.7	325.3	324.9	324.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	367.0	365.9	365.9	365.8	365.7	365.6	365.4	365.1	364.9	364.6	364.3
115°	425.5	425.2	425.7	426.1	426.6	427.0	426.9	426.2	425.6	424.9	424.2
117.5°	483.9	483.9	484.5	485.1	485.7	486.2	486.3	485.9	485.4	485.0	484.5
120°	522.8	523.1	524.2	525.3	526.4	527.5	527.4	526.1	524.7	523.4	522.1
122.5°	562.4	563.0	563.6	564.1	564.7	565.3	565.1	564.1	563.1	562.2	561.2
125°	621.0	621.9	622.3	622.8	623.2	623.7	623.5	622.9	622.2	621.6	620.9
127.5°	678.9	680.2	680.7	681.2	681.6	682.1	681.7	680.2	678.8	677.4	676.0
130°	716.8	717.7	718.4	719.0	719.7	720.4	719.8	718.0	716.3	714.5	712.7
132.5°	754.2	755.2	755.7	756.2	756.7	757.2	756.6	754.8	753.0	751.2	749.5
135°	809.7	810.5	810.8	811.0	811.2	811.4	810.9	809.5	808.2	806.9	805.6
137.5°	864.1	865.0	864.5	863.9	863.3	862.7	861.9	860.8	859.7	858.6	857.5
140°	899.2	899.4	899.2	898.9	898.7	898.5	897.8	896.7	895.6	894.5	893.4
142.5°	932.7	932.9	932.5	932.1	931.7	931.3	930.6	929.5	928.4	927.2	926.1
145°	982.0	982.2	981.6	980.9	980.2	979.6	979.0	978.6	978.1	977.7	977.2
147.5°	1028.4	1028.4	1027.7	1027.1	1026.5	1025.9	1025.2	1024.4	1023.6	1022.8	1022.0
150°	1057.1	1057.1	1056.7	1056.2	1055.8	1055.3	1054.9	1054.4	1054.0	1053.6	1053.1
152.5°	1083.0	1082.7	1082.4	1082.1	1081.9	1081.6	1081.1	1080.5	1079.9	1079.3	1078.7
155°	1120.9	1120.0	1119.8	1119.5	1119.3	1119.1	1119.0	1119.0	1119.0	1119.0	1119.0
157.5°	1153.9	1152.9	1152.8	1152.6	1152.4	1152.2	1152.3	1152.5	1152.8	1153.1	1153.3
160°	1174.0	1172.9	1172.9	1172.9	1172.9	1172.9	1173.1	1173.6	1174.0	1174.4	1174.9
162.5°	1193.2	1192.1	1191.9	1191.7	1191.5	1191.4	1191.6	1192.2	1192.8	1193.4	1194.1
165°	1217.1	1215.8	1215.8	1215.8	1215.8	1215.8	1216.2	1216.8	1217.5	1218.1	1218.8
167.5°	1236.8	1235.4	1235.2	1235.0	1234.9	1234.7	1235.0	1235.9	1236.8	1237.7	1238.6
170°	1247.3	1245.8	1245.8	1245.8	1245.8	1245.8	1246.2	1247.1	1248.0	1248.9	1249.8
172.5°	1255.9	1254.5	1254.5	1254.5	1254.5	1254.5	1255.0	1255.9	1256.8	1257.7	1258.5
175°	1265.1	1263.7	1263.7	1263.7	1263.7	1263.7	1264.2	1265.1	1265.9	1266.8	1267.7
177.5°	1269.4	1268.3	1268.3	1268.3	1268.3	1268.3	1268.7	1269.4	1270.1	1270.8	1271.5
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1632.2	1635.3	1646.0	1653.6	1662.4	1667.4	1672.4	1676.2	1681.2	1682.5	1700.7
5°	1639.4	1655.2	1682.7	1703.1	1728.2	1755.7	1774.6	1783.3	1806.0	1824.9	1862.6
7.5°	1637.4	1670.9	1712.4	1755.4	1801.6	1844.4	1881.5	1925.5	1956.8	2003.8	2050.2
10°	1635.5	1680.3	1733.7	1788.8	1853.2	1912.9	1966.4	2026.1	2075.6	2140.8	2196.6
12.5°	1629.8	1684.1	1758.3	1823.3	1901.6	1984.0	2063.2	2139.9	2183.8	2292.4	2343.8
15°	1615.9	1680.3	1773.0	1872.1	1979.7	2077.2	2177.8	2258.0	2387.6	2482.7	2543.2
17.5°	1589.1	1679.4	1789.4	1908.8	2039.8	2168.2	2282.2	2403.8	2541.4	2656.4	2779.0
20°	1576.6	1675.6	1798.2	1930.2	2066.2	2211.6	2341.3	2487.4	2637.6	2750.7	2907.9
22.5°	1553.3	1665.5	1797.6	1944.7	2090.1	2240.5	2392.2	2539.6	2713.0	2868.9	3018.6
25°	1515.3	1641.0	1777.8	1942.0	2112.6	2263.5	2445.0	2640.7	2821.5	3021.9	3171.2
27.5°	1475.3	1609.6	1746.6	1899.4	2082.8	2261.9	2490.3	2711.4	2932.4	3105.5	3216.0
30°	1444.5	1575.0	1716.5	1870.5	2052.0	2265.0	2520.4	2761.7	2977.1	3125.6	3187.7
32.5°	1411.2	1543.5	1668.7	1830.3	2023.7	2263.1	2539.3	2791.3	2979.6	3078.5	3066.4
35°	1358.9	1469.7	1591.5	1747.1	1975.0	2249.3	2550.3	2793.9	2909.5	2888.3	2727.9
37.5°	1283.4	1376.6	1496.6	1666.9	1918.4	2220.2	2528.3	2711.1	2703.6	2530.8	2298.5
40°	1236.3	1315.6	1431.2	1610.4	1874.4	2201.4	2493.7	2612.4	2511.8	2270.5	1992.3
42.5°	1174.6	1247.7	1363.3	1547.5	1826.0	2163.0	2427.7	2462.1	2265.3	1987.6	1732.6
45°	1079.1	1143.5	1263.0	1453.2	1753.4	2079.5	2266.6	2182.5	1917.6	1630.8	1436.7
47.5°	976.4	1043.4	1158.3	1353.7	1648.4	1954.0	2043.1	1864.2	1592.3	1359.6	1181.4
50°	911.7	976.1	1088.5	1285.8	1577.3	1850.8	1887.8	1656.7	1406.8	1202.5	1056.3
52.5°	846.3	907.0	1017.5	1215.3	1494.4	1731.4	1708.6	1473.1	1243.3	1069.2	954.4
55°	749.0	806.4	911.7	1097.1	1351.0	1538.8	1456.3	1231.5	1041.3	906.2	818.9
57.5°	661.9	716.9	807.8	975.3	1196.0	1325.1	1220.1	1030.7	879.4	775.4	710.3
60°	602.8	651.5	738.0	893.6	1085.4	1183.6	1079.9	912.5	785.1	701.8	643.7
62.5°	546.8	589.3	669.4	810.6	977.2	1059.7	954.7	813.1	704.7	630.8	581.4
65°	462.1	500.6	571.4	681.4	818.1	873.2	782.8	668.0	583.9	528.9	495.9
67.5°	384.8	417.5	478.6	565.2	665.8	705.9	637.1	548.3	484.9	440.7	414.5
70°	333.2	361.5	409.5	484.1	575.3	605.9	541.5	468.4	422.0	386.7	362.3
72.5°	289.8	310.6	354.1	411.8	487.9	512.3	467.3	403.0	359.8	333.2	313.9
75°	220.8	238.1	266.4	312.8	365.5	379.6	345.8	305.7	276.6	257.8	242.8
77.5°	159.2	172.0	192.4	221.0	257.5	270.2	248.8	222.1	200.9	188.1	179.8
80°	120.2	130.5	147.8	171.3	193.3	200.4	187.8	167.4	152.5	145.4	138.3
82.5°	88.8	94.6	105.0	121.0	136.1	144.5	133.8	121.5	113.5	107.0	104.4
85°	44.8	47.9	52.7	58.9	68.4	71.5	67.6	64.4	59.7	55.8	55.8
87.5°	17.0	17.4	19.8	21.5	24.5	27.0	26.9	26.2	26.2	25.7	25.3
90°	3.2	5.4	7.7	9.9	12.4	15.3	18.2	21.1	24.0	24.8	25.7
92.5°	25.7	27.2	28.7	30.2	31.8	33.4	35.0	36.7	38.3	39.0	39.8
95°	60.4	62.0	63.6	65.1	66.8	68.5	70.3	72.1	73.9	74.8	75.6
97.5°	105.8	106.9	108.1	109.2	110.4	111.7	113.0	114.3	115.6	116.6	117.6
100°	137.1	138.4	139.7	141.1	142.3	143.4	144.5	145.6	146.7	147.4	148.1
102.5°	172.5	173.3	174.1	174.9	176.0	177.5	178.9	180.4	181.9	182.5	183.2
105°	225.0	225.5	225.9	226.4	227.6	229.6	231.6	233.6	235.6	235.6	235.6
107.5°	286.4	286.6	286.9	287.2	287.7	288.5	289.3	290.1	290.9	291.6	292.3
110°	324.9	325.3	325.7	326.2	326.6	327.1	327.5	328.0	328.4	329.3	330.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	364.6	364.9	365.1	365.4	365.6	365.7	365.8	365.9	365.9	367.0	368.1
115°	424.9	425.6	426.2	426.9	427.0	426.6	426.1	425.7	425.2	425.5	425.7
117.5°	485.0	485.4	485.9	486.3	486.2	485.7	485.1	484.5	483.9	483.9	483.8
120°	523.4	524.7	526.1	527.4	527.5	526.4	525.3	524.2	523.1	522.8	522.6
122.5°	562.2	563.1	564.1	565.1	565.3	564.7	564.1	563.6	563.0	562.4	561.8
125°	621.6	622.2	622.9	623.5	623.7	623.2	622.8	622.3	621.9	621.0	620.1
127.5°	677.4	678.8	680.2	681.7	682.1	681.6	681.2	680.7	680.2	678.9	677.7
130°	714.5	716.3	718.0	719.8	720.4	719.7	719.0	718.4	717.7	716.8	715.9
132.5°	751.2	753.0	754.8	756.6	757.2	756.7	756.2	755.7	755.2	754.2	753.1
135°	806.9	808.2	809.5	810.9	811.4	811.2	811.0	810.8	810.5	809.7	808.8
137.5°	858.6	859.7	860.8	861.9	862.7	863.3	863.9	864.5	865.0	864.1	863.2
140°	894.5	895.6	896.7	897.8	898.5	898.7	898.9	899.2	899.4	899.2	898.9
142.5°	927.2	928.4	929.5	930.6	931.3	931.7	932.1	932.5	932.9	932.7	932.5
145°	977.7	978.1	978.6	979.0	979.6	980.2	980.9	981.6	982.2	982.0	981.8
147.5°	1022.8	1023.6	1024.4	1025.2	1025.9	1026.5	1027.1	1027.7	1028.4	1028.4	1028.4
150°	1053.6	1054.0	1054.4	1054.9	1055.3	1055.8	1056.2	1056.7	1057.1	1057.1	1057.1
152.5°	1079.3	1079.9	1080.5	1081.1	1081.6	1081.9	1082.1	1082.4	1082.7	1083.0	1083.4
155°	1119.0	1119.0	1119.0	1119.0	1119.1	1119.3	1119.5	1119.8	1120.0	1120.9	1121.8
157.5°	1153.1	1152.8	1152.5	1152.3	1152.2	1152.4	1152.6	1152.8	1152.9	1153.9	1154.8
160°	1174.4	1174.0	1173.6	1173.1	1172.9	1172.9	1172.9	1172.9	1172.9	1174.0	1175.1
162.5°	1193.4	1192.8	1192.2	1191.6	1191.4	1191.5	1191.7	1191.9	1192.1	1193.2	1194.3
165°	1218.1	1217.5	1216.8	1216.2	1215.8	1215.8	1215.8	1215.8	1215.8	1217.1	1218.5
167.5°	1237.7	1236.8	1235.9	1235.0	1234.7	1234.9	1235.0	1235.2	1235.4	1236.8	1238.1
170°	1248.9	1248.0	1247.1	1246.2	1245.8	1245.8	1245.8	1245.8	1245.8	1247.3	1248.9
172.5°	1257.7	1256.8	1255.9	1255.0	1254.5	1254.5	1254.5	1254.5	1254.5	1255.9	1257.3
175°	1266.8	1265.9	1265.1	1264.2	1263.7	1263.7	1263.7	1263.7	1263.7	1265.1	1266.4
177.5°	1270.8	1270.1	1269.4	1268.7	1268.3	1268.3	1268.3	1268.3	1268.3	1269.4	1270.5
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1707.0	1707.6	1714.6	1719.6	1717.1	1720.2	1721.5
5°	1865.0	1893.3	1908.2	1919.2	1920.0	1920.8	1927.1
7.5°	2089.0	2119.3	2141.5	2175.1	2185.2	2196.6	2193.3
10°	2252.5	2297.2	2335.8	2356.2	2378.2	2410.4	2384.5
12.5°	2405.2	2484.6	2543.2	2575.0	2595.7	2602.2	2589.5
15°	2657.2	2760.9	2816.7	2815.2	2885.9	2916.6	2868.6
17.5°	2888.3	2984.0	3060.7	3100.0	3158.9	3172.0	3166.0
20°	3029.7	3134.3	3194.0	3261.6	3292.2	3319.7	3324.4
22.5°	3151.7	3245.5	3309.7	3365.9	3391.6	3404.6	3412.5
25°	3277.3	3351.2	3389.7	3409.3	3416.4	3414.8	3404.6
27.5°	3268.6	3274.3	3231.9	3190.2	3153.0	3111.0	3096.5
30°	3183.8	3117.7	2999.9	2933.1	2834.8	2757.0	2788.4
32.5°	2960.6	2829.2	2696.8	2550.8	2429.9	2395.5	2360.9
35°	2526.7	2295.7	2160.5	2003.3	1940.4	1877.6	1834.3
37.5°	2044.2	1865.5	1705.1	1602.3	1539.3	1499.5	1478.2
40°	1767.5	1606.4	1474.4	1391.1	1343.1	1298.3	1292.1
42.5°	1546.9	1397.1	1297.7	1231.4	1185.3	1166.3	1152.5
45°	1266.9	1162.4	1095.6	1048.4	1017.8	1006.0	990.3
47.5°	1072.3	998.4	948.3	916.2	893.1	884.3	883.1
50°	963.5	902.2	865.3	840.1	822.1	818.9	806.4
52.5°	881.8	828.7	799.9	777.9	764.9	756.1	752.3
55°	765.5	730.1	704.2	691.6	681.4	672.7	672.7
57.5°	669.8	640.2	623.1	612.4	609.2	603.1	599.2
60°	610.7	585.5	572.2	562.7	556.4	557.2	550.1
62.5°	552.8	536.5	523.7	514.3	506.8	506.9	507.4
65°	470.8	458.2	448.8	445.6	440.9	435.4	437.0
67.5°	398.9	387.1	379.8	374.4	372.8	369.9	374.4
70°	347.4	338.7	333.2	328.5	326.9	327.7	331.7
72.5°	300.2	294.1	290.5	288.3	284.8	285.0	287.6
75°	235.8	231.1	227.9	225.6	224.8	224.8	224.8
77.5°	173.2	172.1	170.7	167.2	167.4	168.3	168.5
80°	136.8	134.4	133.6	132.0	129.7	128.1	132.0
82.5°	102.2	99.8	99.0	98.7	95.1	94.8	98.1
85°	55.0	52.7	53.4	52.7	52.7	51.9	51.9
87.5°	24.8	24.4	23.9	24.6	24.0	23.5	24.9
90°	26.6	27.5	28.2	28.6	29.1	29.5	29.9
92.5°	40.5	41.2	41.4	41.1	40.9	40.6	40.3
95°	76.5	77.4	77.9	77.9	77.9	77.9	77.9
97.5°	118.7	119.7	120.1	120.1	120.0	119.9	119.8
100°	148.7	149.4	150.0	150.4	150.8	151.3	151.7
102.5°	183.9	184.5	184.8	184.7	184.6	184.6	184.5
105°	235.6	235.6	235.8	236.2	236.7	237.1	237.6
107.5°	293.0	293.7	293.9	293.7	293.4	293.1	292.9
110°	331.1	332.0	332.2	331.7	331.3	330.9	330.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	369.1	370.2	370.7	370.6	370.5	370.4	370.3
115°	425.9	426.1	426.1	425.9	425.7	425.5	425.2
117.5°	483.8	483.8	483.4	482.8	482.2	481.6	480.9
120°	522.4	522.2	521.8	521.4	521.0	520.5	520.1
122.5°	561.3	560.7	560.1	559.5	558.8	558.2	557.6
125°	619.2	618.3	617.4	616.6	615.7	614.8	613.9
127.5°	676.5	675.2	674.1	673.1	672.0	671.0	670.0
130°	715.0	714.2	712.9	711.4	709.8	708.3	706.7
132.5°	752.1	751.0	749.9	748.7	747.5	746.3	745.1
135°	807.9	807.0	806.3	805.9	805.4	805.0	804.6
137.5°	862.3	861.3	860.4	859.6	858.7	857.9	857.1
140°	898.7	898.5	897.6	896.1	894.5	893.0	891.4
142.5°	932.3	932.0	931.3	930.1	928.9	927.7	926.5
145°	981.6	981.3	980.8	979.9	979.0	978.1	977.2
147.5°	1028.4	1028.4	1027.7	1026.4	1025.0	1023.7	1022.4
150°	1057.1	1057.1	1056.4	1055.1	1053.8	1052.4	1051.1
152.5°	1083.7	1084.1	1083.7	1082.5	1081.4	1080.2	1079.1
155°	1122.7	1123.5	1123.2	1121.7	1120.1	1118.5	1117.0
157.5°	1155.7	1156.7	1156.5	1155.3	1154.0	1152.8	1151.5
160°	1176.2	1177.3	1177.4	1176.6	1175.7	1174.8	1173.9
162.5°	1195.4	1196.5	1196.3	1194.9	1193.5	1192.1	1190.7
165°	1219.8	1221.1	1221.0	1219.5	1217.9	1216.4	1214.8
167.5°	1239.5	1240.9	1240.9	1239.5	1238.1	1236.8	1235.4
170°	1250.4	1252.0	1252.0	1250.4	1248.9	1247.3	1245.8
172.5°	1258.7	1260.0	1260.0	1258.4	1256.9	1255.3	1253.7
175°	1267.7	1269.1	1268.9	1267.4	1265.8	1264.3	1262.7
177.5°	1271.5	1272.6	1272.5	1271.3	1270.0	1268.8	1267.5
180°	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7	1270.7

(END OF REPORT)