

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: P331598

Luminaire Tested: **S122DIW-S1005D970U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331598
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S1005D970U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7760.1 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

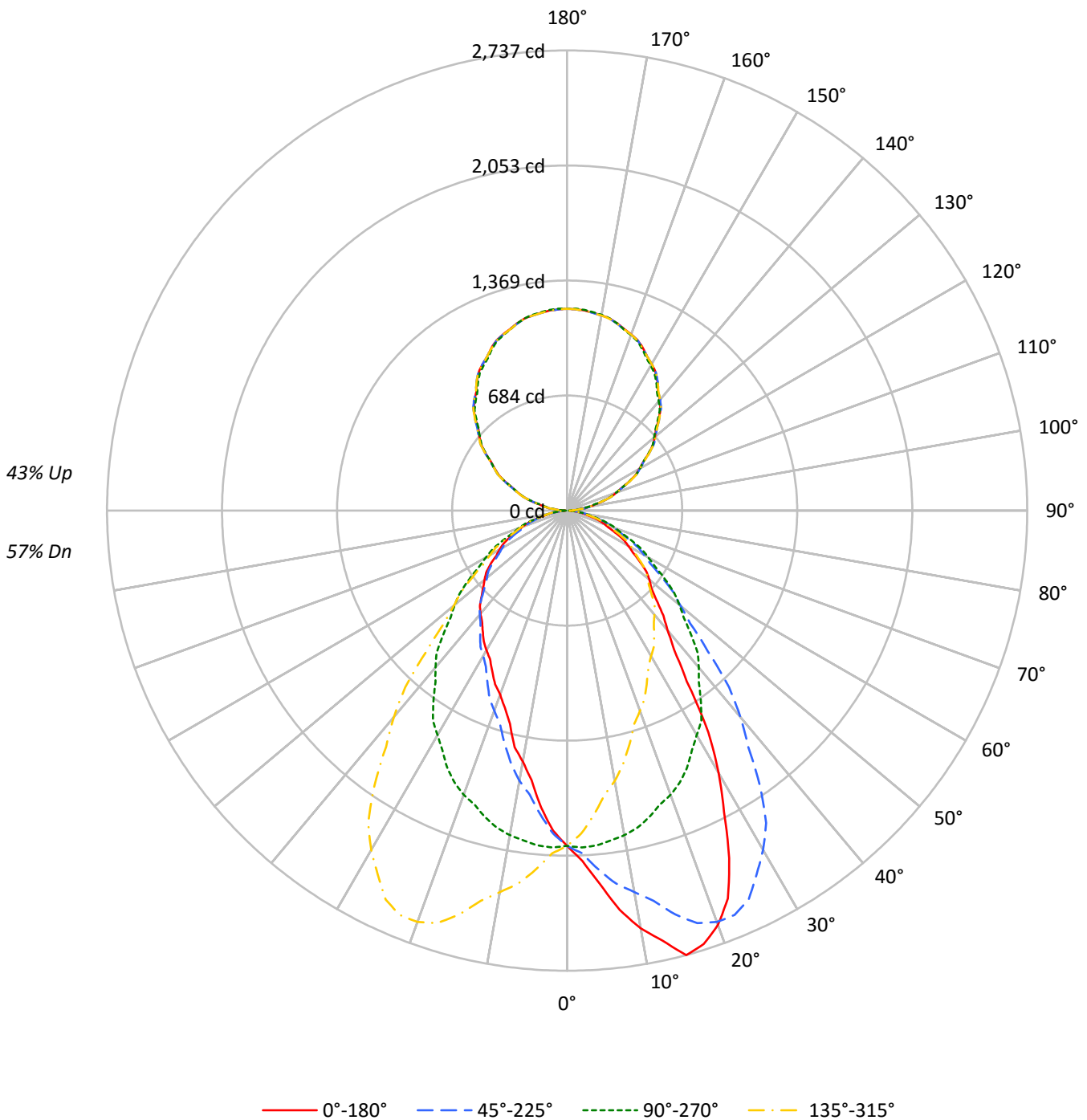
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	56	55	54	49
2	91	84	78	73	85	79	73	69	68	64	61	59	56	53	50	48	46	42
3	84	74	67	62	78	70	63	58	61	56	52	52	49	46	45	42	40	36
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	35	31
5	71	59	51	46	66	56	49	43	49	43	39	43	38	35	37	33	31	28
6	65	54	46	40	61	50	43	38	44	39	34	39	34	31	33	30	27	25
7	61	49	41	35	56	46	39	34	40	35	31	35	31	28	31	27	25	22
8	56	44	37	31	53	42	35	30	37	31	27	33	28	25	28	25	22	20
9	53	41	33	28	49	38	32	27	34	29	25	30	26	22	26	23	20	18
10	49	37	30	25	46	35	29	24	32	26	22	28	23	20	24	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32195	32195	32195	32195
5°	36094	32405	28716	32405
10°	41361	32139	24851	32139
15°	45757	31550	21956	31550
20°	45060	30917	20015	30917
25°	40631	30077	18786	30077
30°	33575	28732	17889	28732
35°	24471	27325	17251	27325
40°	19545	25665	16895	25665
45°	17080	23745	16413	23745
50°	16053	21886	16093	21886
55°	14798	19997	15662	19997
60°	13563	17990	14996	17990
65°	12355	16191	14346	16191
70°	11216	14436	13388	14436
75°	9944	12477	11859	12477
80°	8554	10330	9549	10330
85°	7669	7669	5687	7669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	2.4
10°-20°	552.1	7.1
20°-30°	801.2	10.3
30°-40°	845.5	10.9
40°-50°	748.6	9.6
50°-60°	597.4	7.7
60°-70°	406.1	5.2
70°-80°	208.2	2.7
80°-90°	55.0	0.7
90°-100°	76.0	1.0
100°-110°	236.2	3.0
110°-120°	403.8	5.2
120°-130°	531.0	6.8
130°-140°	595.9	7.7
140°-150°	584.3	7.5
150°-160°	490.1	6.3
160°-170°	325.1	4.2
170°-180°	113.6	1.5
0°-30°	1543.2	19.9
0°-40°	2388.7	30.8
0°-60°	3734.8	48.1
0°-90°	4404.1	56.8
90°-120°	716.0	9.2
90°-150°	2427.3	31.3
90°-180°	3356.0	43.2
0°-180°	7760.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1994	1994	1994	1994	1994	
5°	2227	1999	1772	1999	2227	222
15°	2737	1888	1314	1888	2737	755
25°	2281	1688	1054	1688	2281	1031
35°	1242	1386	875	1386	1242	807
45°	748	1040	719	1040	748	588
55°	526	710	556	710	526	471
65°	323	424	376	424	323	322
75°	159	200	190	200	159	170
85°	41	41	31	41	41	46
90°	34	1	34	1	34	17
95°	63	53	63	53	63	70
105°	225	218	225	218	225	237
115°	405	405	405	405	405	400
125°	592	590	592	590	592	527
135°	772	763	772	763	772	594
145°	936	926	936	926	936	584
155°	1066	1058	1066	1058	1066	491
165°	1153	1152	1153	1152	1153	325
175°	1194	1198	1194	1198	1194	113
180°	1200	1200	1200	1200	1200	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2086.0	2086.6	2087.8	2078.0	2076.8	2076.8	2068.2	2060.9	2052.3	2040.6	2041.9
5°	2227.0	2235.4	2238.5	2229.3	2215.5	2214.0	2201.0	2179.5	2159.6	2143.5	2132.0
7.5°	2395.3	2398.7	2391.2	2379.1	2368.8	2350.4	2326.2	2302.4	2269.2	2238.7	2216.0
10°	2522.8	2527.4	2514.4	2496.8	2482.2	2460.8	2425.5	2389.5	2345.8	2303.7	2269.9
12.5°	2619.7	2631.0	2614.3	2612.0	2587.1	2557.6	2515.6	2497.4	2435.9	2377.2	2341.1
15°	2737.4	2736.6	2738.2	2723.6	2705.2	2700.6	2656.2	2607.9	2521.3	2486.8	2427.0
17.5°	2703.4	2715.0	2720.4	2720.2	2719.8	2716.9	2702.6	2672.1	2628.7	2572.8	2503.8
20°	2622.5	2637.8	2640.1	2657.7	2667.7	2680.7	2686.1	2677.6	2650.8	2604.1	2544.3
22.5°	2497.4	2501.7	2508.9	2536.3	2557.9	2590.6	2607.6	2635.9	2625.7	2602.8	2552.9
25°	2280.7	2273.0	2299.8	2313.6	2363.4	2415.5	2453.1	2494.5	2531.3	2553.5	2538.9
27.5°	2020.4	2008.9	2049.1	2085.7	2126.2	2182.6	2241.1	2310.2	2367.7	2439.6	2464.3
30°	1800.9	1807.8	1846.1	1885.2	1946.5	2026.2	2092.1	2168.0	2250.0	2330.5	2386.4
32.5°	1564.3	1590.8	1615.0	1674.9	1728.9	1817.8	1914.3	2009.2	2111.5	2203.0	2289.6
35°	1241.5	1272.1	1305.9	1349.5	1425.4	1513.5	1607.8	1735.8	1875.3	2000.2	2102.9
37.5°	1045.0	1040.1	1059.4	1091.0	1152.4	1223.6	1332.1	1458.5	1622.7	1769.5	1914.3
40°	927.3	924.2	938.0	967.1	1013.9	1066.0	1161.0	1272.1	1424.6	1604.0	1776.4
42.5°	846.4	848.2	855.9	876.4	908.4	951.3	1022.5	1117.0	1256.7	1425.6	1610.9
45°	748.0	753.3	761.8	771.7	790.1	825.4	865.2	932.7	1043.0	1184.0	1366.4
47.5°	677.1	677.3	685.9	694.6	705.5	725.4	757.9	800.2	878.1	992.9	1149.7
50°	639.1	633.8	639.9	646.8	658.3	672.1	693.5	733.4	785.5	878.2	1009.3
52.5°	592.5	592.7	598.2	600.8	611.1	624.9	644.5	672.1	719.3	791.8	899.5
55°	525.7	529.5	532.6	537.2	546.4	556.4	571.7	590.1	626.9	681.3	761.0
57.5°	462.9	464.1	467.2	475.9	481.7	490.9	505.5	522.2	546.1	586.4	646.3
60°	420.0	420.0	426.1	429.9	437.6	446.8	458.3	474.4	495.8	528.8	577.1
62.5°	380.7	380.1	382.6	388.8	394.7	403.3	414.7	428.4	448.6	477.9	517.6
65°	323.4	321.9	326.5	328.0	334.1	342.6	351.8	366.3	382.4	403.9	439.1
67.5°	268.2	270.1	272.5	275.4	278.8	287.7	293.8	304.1	317.7	335.5	359.4
70°	237.6	237.6	237.6	239.9	244.5	249.1	255.2	263.6	276.7	292.0	313.4
72.5°	203.2	205.7	208.1	206.8	212.6	215.3	222.7	227.5	239.9	249.7	268.7
75°	159.4	159.4	159.4	163.2	165.5	167.8	172.4	177.0	183.2	195.4	205.4
77.5°	118.9	118.6	119.4	120.3	122.8	125.5	126.9	131.0	136.7	142.4	150.8
80°	92.0	93.5	94.3	95.8	95.8	97.3	98.1	103.5	107.3	111.1	116.5
82.5°	71.1	71.4	71.6	71.9	72.5	73.4	75.4	77.1	78.5	81.7	85.8
85°	41.4	40.6	40.6	42.1	41.4	41.4	42.9	44.4	44.4	45.2	47.5
87.5°	22.8	22.8	23.4	22.7	22.6	23.3	23.4	22.9	23.6	24.3	23.9
90°	34.4	34.2	34.0	33.8	33.5	33.6	34.1	34.5	35.0	35.4	30.5
92.5°	32.8	32.8	32.7	32.7	32.6	32.6	32.5	32.4	32.3	32.2	31.0
95°	62.8	63.2	63.7	64.1	64.6	64.8	64.8	64.8	64.8	64.8	64.4
97.5°	108.8	108.8	108.9	108.9	109.0	109.0	109.0	109.0	109.0	109.0	108.1
100°	138.8	139.0	139.2	139.4	139.7	139.8	139.8	139.8	139.8	139.8	139.1
102.5°	172.8	173.0	173.2	173.5	173.7	173.7	173.5	173.4	173.2	173.0	172.1
105°	224.9	224.9	224.9	224.9	224.9	224.6	224.2	223.7	223.3	222.8	222.4
107.5°	273.9	274.9	275.9	277.0	278.0	278.4	278.3	278.1	277.9	277.7	277.7
110°	312.0	312.6	313.3	314.0	314.7	315.0	315.0	315.0	315.0	315.0	315.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	348.4	348.9	349.4	349.9	350.4	350.9	351.5	352.0	352.5	353.1	353.3
115°	405.1	405.8	406.5	407.2	407.8	408.3	408.5	408.7	409.0	409.2	409.6
117.5°	459.2	459.9	460.6	461.3	461.9	462.5	463.1	463.6	464.2	464.7	466.0
120°	497.3	498.0	498.7	499.3	500.0	500.4	500.4	500.4	500.4	500.4	502.2
122.5°	534.6	535.1	535.6	536.1	536.6	537.1	537.6	538.2	538.7	539.2	540.5
125°	591.5	591.7	592.0	592.2	592.4	592.9	593.5	594.2	594.9	595.6	596.2
127.5°	643.4	644.1	644.8	645.5	646.2	647.0	647.8	648.6	649.4	650.3	651.1
130°	680.6	681.5	682.4	683.3	684.2	684.9	685.4	685.8	686.3	686.7	687.2
132.5°	716.3	717.0	717.7	718.5	719.2	720.0	721.0	722.0	723.0	724.0	723.9
135°	771.8	772.5	773.1	773.8	774.5	774.9	775.2	775.4	775.6	775.8	775.4
137.5°	822.0	822.9	823.8	824.7	825.6	826.2	826.4	826.5	826.7	826.9	826.3
140°	856.9	857.8	858.7	859.6	860.5	860.9	860.9	860.9	860.9	860.9	859.8
142.5°	888.5	889.4	890.3	891.2	892.1	892.4	892.3	892.1	891.9	891.7	891.0
145°	935.9	936.8	937.7	938.6	939.5	939.8	939.6	939.4	939.1	938.9	937.6
147.5°	978.2	979.1	979.9	980.8	981.6	981.8	981.3	980.8	980.3	979.8	978.9
150°	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5	1007.8	1007.1	1006.4	1005.8	1004.9
152.5°	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1	1034.3	1033.4	1032.5	1031.7	1030.6
155°	1066.5	1067.2	1067.9	1068.6	1069.2	1069.0	1067.9	1066.8	1065.6	1064.5	1063.8
157.5°	1096.5	1097.6	1098.7	1099.8	1100.8	1100.6	1099.1	1097.6	1096.0	1094.5	1094.1
160°	1115.2	1116.1	1117.0	1117.9	1118.8	1118.5	1117.2	1115.8	1114.5	1113.1	1112.9
162.5°	1131.4	1132.4	1133.5	1134.6	1135.7	1135.5	1133.9	1132.4	1130.9	1129.3	1129.1
165°	1152.6	1153.8	1154.9	1156.0	1157.1	1156.9	1155.3	1153.8	1152.2	1150.6	1150.6
167.5°	1170.1	1171.2	1172.4	1173.6	1174.7	1174.5	1173.0	1171.4	1169.8	1168.2	1168.3
170°	1179.0	1180.3	1181.7	1183.0	1184.4	1184.3	1182.7	1181.1	1179.5	1178.0	1178.2
172.5°	1186.3	1187.6	1189.0	1190.3	1191.7	1191.5	1190.0	1188.4	1186.8	1185.2	1185.5
175°	1194.2	1195.5	1196.9	1198.2	1199.6	1199.4	1197.9	1196.3	1194.7	1193.1	1193.6
177.5°	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1	1201.0	1200.0	1198.9	1197.8	1198.2
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2046.2	2041.3	2038.2	2027.2	2017.3	2007.5	2004.5	2005.7	1992.2	1979.3	1973.8
5°	2125.9	2110.5	2096.0	2075.3	2050.8	2023.9	2010.1	1999.4	1972.6	1943.5	1926.6
7.5°	2197.3	2175.4	2147.3	2108.4	2072.7	2030.5	2003.7	1979.9	1940.7	1899.6	1874.5
10°	2240.8	2210.9	2174.9	2127.4	2083.7	2032.4	1996.3	1960.3	1914.3	1865.3	1834.6
12.5°	2278.2	2237.9	2202.5	2141.5	2089.8	2025.6	1982.9	1932.1	1883.7	1825.4	1795.4
15°	2367.3	2292.9	2225.5	2156.5	2092.9	2003.2	1955.7	1887.5	1823.9	1751.9	1717.4
17.5°	2436.1	2352.5	2246.3	2158.7	2084.5	1985.2	1915.4	1833.7	1758.5	1676.2	1629.3
20°	2475.3	2379.5	2265.3	2161.1	2072.2	1958.8	1882.9	1799.4	1711.3	1618.5	1568.0
22.5°	2498.6	2397.9	2285.0	2151.9	2047.7	1937.3	1841.8	1750.3	1661.0	1560.9	1507.9
25°	2506.0	2414.0	2294.5	2144.3	2017.0	1892.1	1777.2	1688.3	1580.2	1486.7	1409.3
27.5°	2469.5	2403.6	2288.6	2129.8	1981.6	1835.6	1707.4	1606.7	1492.7	1391.2	1313.4
30°	2424.7	2386.4	2274.5	2115.1	1953.4	1796.3	1655.3	1541.1	1427.7	1325.0	1245.3
32.5°	2355.5	2347.2	2248.8	2094.3	1923.4	1746.7	1600.8	1485.3	1359.7	1258.8	1182.8
35°	2219.4	2256.1	2194.1	2047.7	1866.8	1676.0	1518.1	1386.3	1256.1	1159.5	1088.2
37.5°	2037.0	2128.3	2112.1	1979.5	1790.5	1599.1	1424.8	1287.0	1162.9	1065.4	995.5
40°	1911.3	2027.8	2044.6	1927.4	1736.6	1539.6	1354.9	1217.7	1096.6	1007.8	937.2
42.5°	1776.4	1912.5	1958.8	1864.8	1677.7	1477.1	1292.4	1150.3	1030.4	944.0	881.5
45°	1550.3	1730.4	1814.0	1760.3	1579.5	1374.1	1184.0	1039.9	931.1	849.9	801.6
47.5°	1339.0	1535.8	1648.1	1629.1	1470.2	1266.8	1078.9	940.6	834.7	769.9	726.7
50°	1189.4	1391.7	1527.3	1533.5	1391.7	1190.1	1001.6	871.3	774.0	713.5	678.2
52.5°	1059.4	1252.5	1400.4	1432.9	1304.0	1110.4	932.3	802.7	717.0	661.4	629.8
55°	889.7	1053.0	1217.0	1276.7	1173.3	989.4	824.6	710.4	629.9	591.6	564.0
57.5°	739.7	875.8	1027.2	1093.3	1029.5	872.1	717.6	618.4	553.2	519.6	498.4
60°	660.6	767.9	902.8	981.7	926.5	786.3	651.4	557.1	503.5	473.6	453.7
62.5°	587.0	682.1	796.1	868.3	838.2	706.0	585.2	502.0	455.7	427.6	413.2
65°	484.3	559.4	647.6	714.2	694.3	593.9	495.1	423.8	387.0	364.8	353.3
67.5°	398.8	453.1	514.2	572.6	556.5	485.4	406.0	350.5	323.1	303.9	297.0
70°	344.9	386.2	440.7	487.4	474.4	416.1	353.3	305.8	282.0	265.9	259.0
72.5°	293.4	327.4	368.9	407.1	398.3	349.9	297.5	261.6	243.4	228.5	222.9
75°	221.5	247.5	272.8	298.1	295.8	258.3	227.6	200.0	185.5	174.0	171.7
77.5°	163.5	178.1	195.3	210.3	206.1	184.7	160.6	144.8	134.1	126.4	125.2
80°	124.9	133.3	145.6	156.3	151.0	141.8	122.6	111.1	103.5	95.8	92.7
82.5°	90.6	99.0	106.4	112.2	108.1	99.5	87.7	79.9	75.3	70.0	68.8
85°	47.5	52.1	55.2	56.7	55.2	49.8	44.4	41.4	37.6	35.3	34.5
87.5°	23.5	22.5	21.5	22.0	19.6	19.1	16.1	13.7	13.6	13.5	12.9
90°	25.5	20.6	15.6	11.8	9.1	6.4	3.7	1.0	3.7	6.4	9.1
92.5°	29.9	28.7	27.5	26.0	24.0	22.0	20.0	18.0	20.0	22.0	24.0
95°	63.9	63.5	63.0	61.7	59.4	57.2	54.9	52.7	54.9	57.2	59.4
97.5°	107.3	106.4	105.6	104.1	102.2	100.2	98.2	96.2	98.2	100.2	102.2
100°	138.4	137.7	137.1	135.8	134.0	132.2	130.4	128.6	130.4	132.2	134.0
102.5°	171.3	170.4	169.6	168.4	167.0	165.5	164.1	162.7	164.1	165.5	167.0
105°	221.9	221.5	221.0	220.5	219.8	219.1	218.4	217.8	218.4	219.1	219.8
107.5°	277.7	277.7	277.7	277.2	276.2	275.2	274.3	273.3	274.3	275.2	276.2
110°	315.0	315.0	315.0	314.3	313.0	311.6	310.3	308.9	310.3	311.6	313.0



TEST NUMBER: P331598

CATALOG NUMBER: S122DIW-S1005D970U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	353.4	353.6	353.8	353.2	351.9	350.5	349.2	347.8	349.2	350.5	351.9
115°	410.1	410.5	411.0	410.5	409.2	407.8	406.5	405.1	406.5	407.8	409.2
117.5°	467.2	468.5	469.7	469.5	467.7	465.9	464.1	462.3	464.1	465.9	467.7
120°	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4	502.2	504.0	505.8
122.5°	541.8	543.0	544.3	543.8	541.7	539.5	537.4	535.2	537.4	539.5	541.7
125°	596.9	597.6	598.3	597.6	595.6	593.5	591.5	589.5	591.5	593.5	595.6
127.5°	651.9	652.7	653.5	652.6	650.1	647.5	644.9	642.4	644.9	647.5	650.1
130°	687.6	688.1	688.5	687.3	684.4	681.4	678.5	675.6	678.5	681.4	684.4
132.5°	723.8	723.7	723.6	722.4	720.0	717.6	715.2	712.8	715.2	717.6	720.0
135°	774.9	774.5	774.0	772.6	770.1	767.6	765.2	762.7	765.2	767.6	770.1
137.5°	825.7	825.1	824.6	823.2	821.2	819.2	817.2	815.1	817.2	819.2	821.2
140°	858.7	857.6	856.4	854.8	852.8	850.8	848.8	846.7	848.8	850.8	852.8
142.5°	890.2	889.4	888.7	887.3	885.2	883.2	881.2	879.2	881.2	883.2	885.2
145°	936.2	934.9	933.5	932.1	930.5	928.9	927.3	925.7	927.3	928.9	930.5
147.5°	978.0	977.1	976.2	974.8	972.9	971.1	969.2	967.3	969.2	971.1	972.9
150°	1004.0	1003.1	1002.2	1001.0	999.7	998.3	997.0	995.6	997.0	998.3	999.7
152.5°	1029.5	1028.5	1027.4	1026.2	1024.8	1023.5	1022.1	1020.8	1022.1	1023.5	1024.8
155°	1063.2	1062.5	1061.8	1061.1	1060.5	1059.8	1059.1	1058.4	1059.1	1059.8	1060.5
157.5°	1093.7	1093.3	1092.9	1092.4	1092.0	1091.5	1091.1	1090.6	1091.1	1091.5	1092.0
160°	1112.7	1112.5	1112.2	1111.9	1111.4	1111.0	1110.5	1110.1	1110.5	1111.0	1111.4
162.5°	1128.9	1128.7	1128.4	1128.3	1128.2	1128.1	1128.0	1127.9	1128.0	1128.1	1128.2
165°	1150.6	1150.6	1150.6	1150.7	1150.9	1151.2	1151.4	1151.6	1151.4	1151.2	1150.9
167.5°	1168.3	1168.4	1168.4	1168.8	1169.4	1170.1	1170.8	1171.5	1170.8	1170.1	1169.4
170°	1178.4	1178.6	1178.9	1179.3	1180.0	1180.7	1181.3	1182.0	1181.3	1180.7	1180.0
172.5°	1185.7	1185.9	1186.1	1186.6	1187.3	1187.9	1188.6	1189.3	1188.6	1187.9	1187.3
175°	1194.0	1194.5	1194.9	1195.5	1196.2	1196.9	1197.5	1198.2	1197.5	1196.9	1196.2
177.5°	1198.5	1198.9	1199.2	1199.7	1200.2	1200.8	1201.3	1201.9	1201.3	1200.8	1200.2
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1967.7	1964.0	1951.1	1944.4	1933.4	1922.9	1916.2	1919.3	1921.7	1920.5	1918.6
5°	1911.3	1896.7	1874.5	1855.3	1841.5	1816.3	1805.5	1800.2	1795.6	1790.2	1784.8
7.5°	1844.1	1821.2	1789.3	1762.0	1736.2	1704.8	1686.9	1676.2	1665.1	1653.0	1642.3
10°	1796.3	1764.1	1730.4	1692.1	1661.5	1633.1	1607.8	1590.9	1575.6	1561.1	1550.3
12.5°	1746.1	1709.0	1667.3	1614.9	1581.1	1540.5	1536.7	1507.0	1483.0	1474.0	1461.4
15°	1666.0	1613.9	1561.1	1499.0	1472.2	1435.4	1412.4	1389.4	1368.7	1354.1	1350.3
17.5°	1575.2	1507.7	1455.1	1410.5	1366.6	1328.9	1307.7	1289.3	1272.3	1252.8	1250.2
20°	1505.9	1447.6	1390.2	1351.1	1305.9	1267.5	1241.5	1223.1	1208.5	1197.0	1187.1
22.5°	1440.3	1376.5	1323.9	1281.2	1236.6	1205.6	1185.1	1167.3	1155.2	1142.5	1133.1
25°	1335.0	1285.2	1227.7	1179.4	1142.6	1122.7	1105.8	1090.5	1082.9	1074.4	1063.7
27.5°	1242.9	1187.5	1133.7	1096.3	1064.0	1046.4	1034.4	1024.0	1016.8	1011.9	1005.8
30°	1177.9	1121.9	1079.8	1043.0	1016.2	998.6	990.9	984.8	976.3	973.3	970.2
32.5°	1115.3	1064.9	1028.9	997.0	971.4	959.9	952.9	947.4	940.8	937.7	931.6
35°	1026.9	984.8	949.5	931.9	911.2	901.2	895.9	888.2	882.1	879.0	878.2
37.5°	943.7	907.1	883.9	861.2	852.5	846.4	839.0	833.8	832.0	831.5	830.7
40°	889.7	859.8	839.2	820.8	816.9	807.7	801.6	797.0	797.0	797.8	797.0
42.5°	840.7	813.9	795.6	779.7	775.2	769.7	763.6	763.3	764.5	767.1	764.5
45°	766.4	747.2	734.2	726.5	718.1	712.7	711.9	714.2	715.0	715.8	718.1
47.5°	698.0	685.3	673.5	665.0	661.4	660.4	659.5	663.5	667.2	668.6	672.1
50°	657.5	643.0	633.0	627.6	624.6	623.0	624.6	629.2	632.2	636.1	638.4
52.5°	612.2	601.9	595.0	590.9	589.6	590.6	590.9	596.1	601.0	602.4	603.4
55°	549.5	541.8	540.3	533.4	536.4	535.7	539.5	542.6	547.2	551.8	552.5
57.5°	486.9	480.8	476.7	477.3	478.2	481.6	484.8	490.2	495.1	500.0	500.4
60°	445.3	442.2	439.9	439.9	441.4	446.0	449.8	455.2	458.3	461.3	463.6
62.5°	407.2	404.2	401.9	403.1	407.1	409.8	414.3	417.2	420.3	423.3	424.4
65°	347.2	345.6	347.9	349.5	350.2	354.1	359.4	361.7	364.8	366.3	371.7
67.5°	291.8	292.1	291.8	294.0	298.4	299.3	304.4	309.8	310.4	313.3	316.8
70°	254.4	256.0	257.5	259.0	262.9	264.4	268.2	270.5	273.6	275.9	278.2
72.5°	220.1	220.4	221.9	221.6	224.8	228.2	231.4	233.7	236.8	239.7	242.0
75°	169.4	169.4	170.9	171.7	175.5	179.3	178.6	180.1	183.2	186.2	187.8
77.5°	123.7	122.0	123.7	124.5	125.7	128.9	129.5	131.7	135.2	134.1	135.8
80°	94.3	92.0	94.3	95.0	95.0	98.9	98.9	100.4	102.7	100.4	102.7
82.5°	67.3	66.2	67.9	68.1	69.3	69.4	70.7	71.0	73.3	72.2	73.3
85°	33.7	33.0	33.7	33.0	33.7	34.5	34.5	33.7	33.7	35.3	33.0
87.5°	12.8	12.9	13.3	14.3	14.7	15.1	14.4	14.3	14.2	12.9	12.8
90°	11.8	15.6	20.6	25.5	30.5	35.4	35.0	34.5	34.1	33.6	33.5
92.5°	26.0	27.5	28.7	29.9	31.0	32.2	32.3	32.4	32.5	32.6	32.6
95°	61.7	63.0	63.5	63.9	64.4	64.8	64.8	64.8	64.8	64.8	64.6
97.5°	104.1	105.6	106.4	107.3	108.1	109.0	109.0	109.0	109.0	109.0	109.0
100°	135.8	137.1	137.7	138.4	139.1	139.8	139.8	139.8	139.8	139.8	139.7
102.5°	168.4	169.6	170.4	171.3	172.1	173.0	173.2	173.4	173.5	173.7	173.7
105°	220.5	221.0	221.5	221.9	222.4	222.8	223.3	223.7	224.2	224.6	224.9
107.5°	277.2	277.7	277.7	277.7	277.7	277.7	277.9	278.1	278.3	278.4	278.0
110°	314.3	315.0	315.0	315.0	315.0	315.0	315.0	315.0	315.0	315.0	314.7



TEST NUMBER: P331598

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	353.2	353.8	353.6	353.4	353.3	353.1	352.5	352.0	351.5	350.9	350.4
115°	410.5	411.0	410.5	410.1	409.6	409.2	409.0	408.7	408.5	408.3	407.8
117.5°	469.5	469.7	468.5	467.2	466.0	464.7	464.2	463.6	463.1	462.5	461.9
120°	507.6	507.6	505.8	504.0	502.2	500.4	500.4	500.4	500.4	500.4	500.0
122.5°	543.8	544.3	543.0	541.8	540.5	539.2	538.7	538.2	537.6	537.1	536.6
125°	597.6	598.3	597.6	596.9	596.2	595.6	594.9	594.2	593.5	592.9	592.4
127.5°	652.6	653.5	652.7	651.9	651.1	650.3	649.4	648.6	647.8	647.0	646.2
130°	687.3	688.5	688.1	687.6	687.2	686.7	686.3	685.8	685.4	684.9	684.2
132.5°	722.4	723.6	723.7	723.8	723.9	724.0	723.0	722.0	721.0	720.0	719.2
135°	772.6	774.0	774.5	774.9	775.4	775.8	775.6	775.4	775.2	774.9	774.5
137.5°	823.2	824.6	825.1	825.7	826.3	826.9	826.7	826.5	826.4	826.2	825.6
140°	854.8	856.4	857.6	858.7	859.8	860.9	860.9	860.9	860.9	860.9	860.5
142.5°	887.3	888.7	889.4	890.2	891.0	891.7	891.9	892.1	892.3	892.4	892.1
145°	932.1	933.5	934.9	936.2	937.6	938.9	939.1	939.4	939.6	939.8	939.5
147.5°	974.8	976.2	977.1	978.0	978.9	979.8	980.3	980.8	981.3	981.8	981.6
150°	1001.0	1002.2	1003.1	1004.0	1004.9	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5
152.5°	1026.2	1027.4	1028.5	1029.5	1030.6	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1
155°	1061.1	1061.8	1062.5	1063.2	1063.8	1064.5	1065.6	1066.8	1067.9	1069.0	1069.2
157.5°	1092.4	1092.9	1093.3	1093.7	1094.1	1094.5	1096.0	1097.6	1099.1	1100.6	1100.8
160°	1111.9	1112.2	1112.5	1112.7	1112.9	1113.1	1114.5	1115.8	1117.2	1118.5	1118.8
162.5°	1128.3	1128.4	1128.7	1128.9	1129.1	1129.3	1130.9	1132.4	1133.9	1135.5	1135.7
165°	1150.7	1150.6	1150.6	1150.6	1150.6	1150.6	1152.2	1153.8	1155.3	1156.9	1157.1
167.5°	1168.8	1168.4	1168.4	1168.3	1168.3	1168.2	1169.8	1171.4	1173.0	1174.5	1174.7
170°	1179.3	1178.9	1178.6	1178.4	1178.2	1178.0	1179.5	1181.1	1182.7	1184.3	1184.4
172.5°	1186.6	1186.1	1185.9	1185.7	1185.5	1185.2	1186.8	1188.4	1190.0	1191.5	1191.7
175°	1195.5	1194.9	1194.5	1194.0	1193.6	1193.1	1194.7	1196.3	1197.9	1199.4	1199.6
177.5°	1199.7	1199.2	1198.9	1198.5	1198.2	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1912.5	1911.3	1911.3	1905.8	1911.3	1911.3	1912.5	1918.6	1920.5	1921.7	1919.3
5°	1774.1	1771.8	1768.0	1771.8	1768.0	1771.8	1774.1	1784.8	1790.2	1795.6	1800.2
7.5°	1637.2	1628.0	1626.7	1617.6	1626.7	1628.0	1637.2	1642.3	1653.0	1665.1	1676.2
10°	1537.3	1531.2	1530.4	1515.8	1530.4	1531.2	1537.3	1550.3	1561.1	1575.6	1590.9
12.5°	1461.3	1446.6	1449.5	1441.0	1449.5	1446.6	1461.3	1461.4	1474.0	1483.0	1507.0
15°	1329.6	1329.6	1326.6	1313.5	1326.6	1329.6	1329.6	1350.3	1354.1	1368.7	1389.4
17.5°	1235.1	1233.5	1226.2	1229.8	1226.2	1233.5	1235.1	1250.2	1252.8	1272.3	1289.3
20°	1178.6	1174.1	1164.9	1164.9	1164.9	1174.1	1178.6	1187.1	1197.0	1208.5	1223.1
22.5°	1125.3	1125.0	1115.2	1118.3	1115.2	1125.0	1125.3	1133.1	1142.5	1155.2	1167.3
25°	1062.9	1056.8	1052.2	1054.5	1052.2	1056.8	1062.9	1063.7	1074.4	1082.9	1090.5
27.5°	1003.8	1000.4	1000.1	993.8	1000.1	1000.4	1003.8	1005.8	1011.9	1016.8	1024.0
30°	969.4	961.8	963.3	959.5	963.3	961.8	969.4	970.2	973.3	976.3	984.8
32.5°	930.2	927.4	925.9	922.7	925.9	927.4	930.2	931.6	937.7	940.8	947.4
35°	876.7	877.5	873.6	875.2	873.6	877.5	876.7	878.2	879.0	882.1	888.2
37.5°	830.0	832.4	830.6	831.0	830.6	832.4	830.0	830.7	831.5	832.0	833.8
40°	799.3	799.3	799.3	801.6	799.3	799.3	799.3	797.0	797.8	797.0	797.0
42.5°	769.9	768.7	767.4	767.3	767.4	768.7	769.9	764.5	767.1	764.5	763.3
45°	719.6	721.9	722.7	718.8	722.7	721.9	719.6	718.1	715.8	715.0	714.2
47.5°	674.1	674.4	674.1	677.5	674.1	674.4	674.1	672.1	668.6	667.2	663.5
50°	642.2	640.7	642.2	640.7	642.2	640.7	642.2	638.4	636.1	632.2	629.2
52.5°	608.5	608.8	607.9	607.6	607.9	608.8	608.5	603.4	602.4	601.0	596.1
55°	555.6	557.1	556.4	556.4	556.4	557.1	555.6	552.5	551.8	547.2	542.6
57.5°	500.9	502.3	503.3	500.0	503.3	502.3	500.9	500.4	500.0	495.1	490.2
60°	462.9	466.7	465.9	464.4	465.9	466.7	462.9	463.6	461.3	458.3	455.2
62.5°	427.9	429.3	429.2	428.9	429.2	429.3	427.9	424.4	423.3	420.3	417.2
65°	374.0	375.5	373.2	375.5	373.2	375.5	374.0	371.7	366.3	364.8	361.7
67.5°	315.9	316.4	318.0	319.1	318.0	316.4	315.9	316.8	313.3	310.4	309.8
70°	279.7	279.0	281.3	283.6	281.3	279.0	279.7	278.2	275.9	273.6	270.5
72.5°	241.7	243.4	242.6	244.3	242.6	243.4	241.7	242.0	239.7	236.8	233.7
75°	186.2	188.5	187.8	190.1	187.8	188.5	186.2	187.8	186.2	183.2	180.1
77.5°	134.6	134.9	134.6	135.8	134.6	134.9	134.6	135.8	134.1	135.2	131.7
80°	102.7	101.2	99.6	102.7	99.6	101.2	102.7	102.7	100.4	102.7	100.4
82.5°	71.4	72.3	70.8	70.8	70.8	72.3	71.4	73.3	72.2	73.3	71.0
85°	33.0	32.2	30.7	30.7	30.7	32.2	33.0	33.0	35.3	33.7	33.7
87.5°	12.9	12.3	12.4	11.8	12.4	12.3	12.9	12.8	12.9	14.2	14.3
90°	33.8	34.0	34.2	34.4	34.2	34.0	33.8	33.5	33.6	34.1	34.5
92.5°	32.7	32.7	32.8	32.8	32.8	32.7	32.7	32.6	32.6	32.5	32.4
95°	64.1	63.7	63.2	62.8	63.2	63.7	64.1	64.6	64.8	64.8	64.8
97.5°	108.9	108.9	108.8	108.8	108.8	108.9	108.9	109.0	109.0	109.0	109.0
100°	139.4	139.2	139.0	138.8	139.0	139.2	139.4	139.7	139.8	139.8	139.8
102.5°	173.5	173.2	173.0	172.8	173.0	173.2	173.5	173.7	173.7	173.5	173.4
105°	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.6	224.2	223.7
107.5°	277.0	275.9	274.9	273.9	274.9	275.9	277.0	278.0	278.4	278.3	278.1
110°	314.0	313.3	312.6	312.0	312.6	313.3	314.0	314.7	315.0	315.0	315.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	349.9	349.4	348.9	348.4	348.9	349.4	349.9	350.4	350.9	351.5	352.0
115°	407.2	406.5	405.8	405.1	405.8	406.5	407.2	407.8	408.3	408.5	408.7
117.5°	461.3	460.6	459.9	459.2	459.9	460.6	461.3	461.9	462.5	463.1	463.6
120°	499.3	498.7	498.0	497.3	498.0	498.7	499.3	500.0	500.4	500.4	500.4
122.5°	536.1	535.6	535.1	534.6	535.1	535.6	536.1	536.6	537.1	537.6	538.2
125°	592.2	592.0	591.7	591.5	591.7	592.0	592.2	592.4	592.9	593.5	594.2
127.5°	645.5	644.8	644.1	643.4	644.1	644.8	645.5	646.2	647.0	647.8	648.6
130°	683.3	682.4	681.5	680.6	681.5	682.4	683.3	684.2	684.9	685.4	685.8
132.5°	718.5	717.7	717.0	716.3	717.0	717.7	718.5	719.2	720.0	721.0	722.0
135°	773.8	773.1	772.5	771.8	772.5	773.1	773.8	774.5	774.9	775.2	775.4
137.5°	824.7	823.8	822.9	822.0	822.9	823.8	824.7	825.6	826.2	826.4	826.5
140°	859.6	858.7	857.8	856.9	857.8	858.7	859.6	860.5	860.9	860.9	860.9
142.5°	891.2	890.3	889.4	888.5	889.4	890.3	891.2	892.1	892.4	892.3	892.1
145°	938.6	937.7	936.8	935.9	936.8	937.7	938.6	939.5	939.8	939.6	939.4
147.5°	980.8	979.9	979.1	978.2	979.1	979.9	980.8	981.6	981.8	981.3	980.8
150°	1007.8	1007.1	1006.4	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5	1007.8	1007.1
152.5°	1034.3	1033.4	1032.5	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1	1034.3	1033.4
155°	1068.6	1067.9	1067.2	1066.5	1067.2	1067.9	1068.6	1069.2	1069.0	1067.9	1066.8
157.5°	1099.8	1098.7	1097.6	1096.5	1097.6	1098.7	1099.8	1100.8	1100.6	1099.1	1097.6
160°	1117.9	1117.0	1116.1	1115.2	1116.1	1117.0	1117.9	1118.8	1118.5	1117.2	1115.8
162.5°	1134.6	1133.5	1132.4	1131.4	1132.4	1133.5	1134.6	1135.7	1135.5	1133.9	1132.4
165°	1156.0	1154.9	1153.8	1152.6	1153.8	1154.9	1156.0	1157.1	1156.9	1155.3	1153.8
167.5°	1173.6	1172.4	1171.2	1170.1	1171.2	1172.4	1173.6	1174.7	1174.5	1173.0	1171.4
170°	1183.0	1181.7	1180.3	1179.0	1180.3	1181.7	1183.0	1184.4	1184.3	1182.7	1181.1
172.5°	1190.3	1189.0	1187.6	1186.3	1187.6	1189.0	1190.3	1191.7	1191.5	1190.0	1188.4
175°	1198.2	1196.9	1195.5	1194.2	1195.5	1196.9	1198.2	1199.6	1199.4	1197.9	1196.3
177.5°	1201.0	1200.0	1198.9	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1	1201.0	1200.0
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1916.2	1922.9	1933.4	1944.4	1951.1	1964.0	1967.7	1973.8	1979.3	1992.2	2005.7
5°	1805.5	1816.3	1841.5	1855.3	1874.5	1896.7	1911.3	1926.6	1943.5	1972.6	1999.4
7.5°	1686.9	1704.8	1736.2	1762.0	1789.3	1821.2	1844.1	1874.5	1899.6	1940.7	1979.9
10°	1607.8	1633.1	1661.5	1692.1	1730.4	1764.1	1796.3	1834.6	1865.3	1914.3	1960.3
12.5°	1536.7	1540.5	1581.1	1614.9	1667.3	1709.0	1746.1	1795.4	1825.4	1883.7	1932.1
15°	1412.4	1435.4	1472.2	1499.0	1561.1	1613.9	1666.0	1717.4	1751.9	1823.9	1887.5
17.5°	1307.7	1328.9	1366.6	1410.5	1455.1	1507.7	1575.2	1629.3	1676.2	1758.5	1833.7
20°	1241.5	1267.5	1305.9	1351.1	1390.2	1447.6	1505.9	1568.0	1618.5	1711.3	1799.4
22.5°	1185.1	1205.6	1236.6	1281.2	1323.9	1376.5	1440.3	1507.9	1560.9	1661.0	1750.3
25°	1105.8	1122.7	1142.6	1179.4	1227.7	1285.2	1335.0	1409.3	1486.7	1580.2	1688.3
27.5°	1034.4	1046.4	1064.0	1096.3	1133.7	1187.5	1242.9	1313.4	1391.2	1492.7	1606.7
30°	990.9	998.6	1016.2	1043.0	1079.8	1121.9	1177.9	1245.3	1325.0	1427.7	1541.1
32.5°	952.9	959.9	971.4	997.0	1028.9	1064.9	1115.3	1182.8	1258.8	1359.7	1485.3
35°	895.9	901.2	911.2	931.9	949.5	984.8	1026.9	1088.2	1159.5	1256.1	1386.3
37.5°	839.0	846.4	852.5	861.2	883.9	907.1	943.7	995.5	1065.4	1162.9	1287.0
40°	801.6	807.7	816.9	820.8	839.2	859.8	889.7	937.2	1007.8	1096.6	1217.7
42.5°	763.6	769.7	775.2	779.7	795.6	813.9	840.7	881.5	944.0	1030.4	1150.3
45°	711.9	712.7	718.1	726.5	734.2	747.2	766.4	801.6	849.9	931.1	1039.9
47.5°	659.5	660.4	661.4	665.0	673.5	685.3	698.0	726.7	769.9	834.7	940.6
50°	624.6	623.0	624.6	627.6	633.0	643.0	657.5	678.2	713.5	774.0	871.3
52.5°	590.9	590.6	589.6	590.9	595.0	601.9	612.2	629.8	661.4	717.0	802.7
55°	539.5	535.7	536.4	533.4	540.3	541.8	549.5	564.0	591.6	629.9	710.4
57.5°	484.8	481.6	478.2	477.3	476.7	480.8	486.9	498.4	519.6	553.2	618.4
60°	449.8	446.0	441.4	439.9	439.9	442.2	445.3	453.7	473.6	503.5	557.1
62.5°	414.3	409.8	407.1	403.1	401.9	404.2	407.2	413.2	427.6	455.7	502.0
65°	359.4	354.1	350.2	349.5	347.9	345.6	347.2	353.3	364.8	387.0	423.8
67.5°	304.4	299.3	298.4	294.0	291.8	292.1	291.8	297.0	303.9	323.1	350.5
70°	268.2	264.4	262.9	259.0	257.5	256.0	254.4	259.0	265.9	282.0	305.8
72.5°	231.4	228.2	224.8	221.6	221.9	220.4	220.1	222.9	228.5	243.4	261.6
75°	178.6	179.3	175.5	171.7	170.9	169.4	169.4	171.7	174.0	185.5	200.0
77.5°	129.5	128.9	125.7	124.5	123.7	122.0	123.7	125.2	126.4	134.1	144.8
80°	98.9	98.9	95.0	95.0	94.3	92.0	94.3	92.7	95.8	103.5	111.1
82.5°	70.7	69.4	69.3	68.1	67.9	66.2	67.3	68.8	70.0	75.3	79.9
85°	34.5	34.5	33.7	33.0	33.7	33.0	33.7	34.5	35.3	37.6	41.4
87.5°	14.4	15.1	14.7	14.3	13.3	12.9	12.8	12.9	13.5	13.6	13.7
90°	35.0	35.4	30.5	25.5	20.6	15.6	11.8	9.1	6.4	3.7	1.0
92.5°	32.3	32.2	31.0	29.9	28.7	27.5	26.0	24.0	22.0	20.0	18.0
95°	64.8	64.8	64.4	63.9	63.5	63.0	61.7	59.4	57.2	54.9	52.7
97.5°	109.0	109.0	108.1	107.3	106.4	105.6	104.1	102.2	100.2	98.2	96.2
100°	139.8	139.8	139.1	138.4	137.7	137.1	135.8	134.0	132.2	130.4	128.6
102.5°	173.2	173.0	172.1	171.3	170.4	169.6	168.4	167.0	165.5	164.1	162.7
105°	223.3	222.8	222.4	221.9	221.5	221.0	220.5	219.8	219.1	218.4	217.8
107.5°	277.9	277.7	277.7	277.7	277.7	277.7	277.2	276.2	275.2	274.3	273.3
110°	315.0	315.0	315.0	315.0	315.0	315.0	314.3	313.0	311.6	310.3	308.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	352.5	353.1	353.3	353.4	353.6	353.8	353.2	351.9	350.5	349.2	347.8
115°	409.0	409.2	409.6	410.1	410.5	411.0	410.5	409.2	407.8	406.5	405.1
117.5°	464.2	464.7	466.0	467.2	468.5	469.7	469.5	467.7	465.9	464.1	462.3
120°	500.4	500.4	502.2	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4
122.5°	538.7	539.2	540.5	541.8	543.0	544.3	543.8	541.7	539.5	537.4	535.2
125°	594.9	595.6	596.2	596.9	597.6	598.3	597.6	595.6	593.5	591.5	589.5
127.5°	649.4	650.3	651.1	651.9	652.7	653.5	652.6	650.1	647.5	644.9	642.4
130°	686.3	686.7	687.2	687.6	688.1	688.5	687.3	684.4	681.4	678.5	675.6
132.5°	723.0	724.0	723.9	723.8	723.7	723.6	722.4	720.0	717.6	715.2	712.8
135°	775.6	775.8	775.4	774.9	774.5	774.0	772.6	770.1	767.6	765.2	762.7
137.5°	826.7	826.9	826.3	825.7	825.1	824.6	823.2	821.2	819.2	817.2	815.1
140°	860.9	860.9	859.8	858.7	857.6	856.4	854.8	852.8	850.8	848.8	846.7
142.5°	891.9	891.7	891.0	890.2	889.4	888.7	887.3	885.2	883.2	881.2	879.2
145°	939.1	938.9	937.6	936.2	934.9	933.5	932.1	930.5	928.9	927.3	925.7
147.5°	980.3	979.8	978.9	978.0	977.1	976.2	974.8	972.9	971.1	969.2	967.3
150°	1006.4	1005.8	1004.9	1004.0	1003.1	1002.2	1001.0	999.7	998.3	997.0	995.6
152.5°	1032.5	1031.7	1030.6	1029.5	1028.5	1027.4	1026.2	1024.8	1023.5	1022.1	1020.8
155°	1065.6	1064.5	1063.8	1063.2	1062.5	1061.8	1061.1	1060.5	1059.8	1059.1	1058.4
157.5°	1096.0	1094.5	1094.1	1093.7	1093.3	1092.9	1092.4	1092.0	1091.5	1091.1	1090.6
160°	1114.5	1113.1	1112.9	1112.7	1112.5	1112.2	1111.9	1111.4	1111.0	1110.5	1110.1
162.5°	1130.9	1129.3	1129.1	1128.9	1128.7	1128.4	1128.3	1128.2	1128.1	1128.0	1127.9
165°	1152.2	1150.6	1150.6	1150.6	1150.6	1150.6	1150.7	1150.9	1151.2	1151.4	1151.6
167.5°	1169.8	1168.2	1168.3	1168.3	1168.4	1168.4	1168.8	1169.4	1170.1	1170.8	1171.5
170°	1179.5	1178.0	1178.2	1178.4	1178.6	1178.9	1179.3	1180.0	1180.7	1181.3	1182.0
172.5°	1186.8	1185.2	1185.5	1185.7	1185.9	1186.1	1186.6	1187.3	1187.9	1188.6	1189.3
175°	1194.7	1193.1	1193.6	1194.0	1194.5	1194.9	1195.5	1196.2	1196.9	1197.5	1198.2
177.5°	1198.9	1197.8	1198.2	1198.5	1198.9	1199.2	1199.7	1200.2	1200.8	1201.3	1201.9
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2004.5	2007.5	2017.3	2027.2	2038.2	2041.3	2046.2	2041.9	2040.6	2052.3	2060.9
5°	2010.1	2023.9	2050.8	2075.3	2096.0	2110.5	2125.9	2132.0	2143.5	2159.6	2179.5
7.5°	2003.7	2030.5	2072.7	2108.4	2147.3	2175.4	2197.3	2216.0	2238.7	2269.2	2302.4
10°	1996.3	2032.4	2083.7	2127.4	2174.9	2210.9	2240.8	2269.9	2303.7	2345.8	2389.5
12.5°	1982.9	2025.6	2089.8	2141.5	2202.5	2237.9	2278.2	2341.1	2377.2	2435.9	2497.4
15°	1955.7	2003.2	2092.9	2156.5	2225.5	2292.9	2367.3	2427.0	2486.8	2521.3	2607.9
17.5°	1915.4	1985.2	2084.5	2158.7	2246.3	2352.5	2436.1	2503.8	2572.8	2628.7	2672.1
20°	1882.9	1958.8	2072.2	2161.1	2265.3	2379.5	2475.3	2544.3	2604.1	2650.8	2677.6
22.5°	1841.8	1937.3	2047.7	2151.9	2285.0	2397.9	2498.6	2552.9	2602.8	2625.7	2635.9
25°	1777.2	1892.1	2017.0	2144.3	2294.5	2414.0	2506.0	2538.9	2553.5	2531.3	2494.5
27.5°	1707.4	1835.6	1981.6	2129.8	2288.6	2403.6	2469.5	2464.3	2439.6	2367.7	2310.2
30°	1655.3	1796.3	1953.4	2115.1	2274.5	2386.4	2424.7	2386.4	2330.5	2250.0	2168.0
32.5°	1600.8	1746.7	1923.4	2094.3	2248.8	2347.2	2355.5	2289.6	2203.0	2111.5	2009.2
35°	1518.1	1676.0	1866.8	2047.7	2194.1	2256.1	2219.4	2102.9	2000.2	1875.3	1735.8
37.5°	1424.8	1599.1	1790.5	1979.5	2112.1	2128.3	2037.0	1914.3	1769.5	1622.7	1458.5
40°	1354.9	1539.6	1736.6	1927.4	2044.6	2027.8	1911.3	1776.4	1604.0	1424.6	1272.1
42.5°	1292.4	1477.1	1677.7	1864.8	1958.8	1912.5	1776.4	1610.9	1425.6	1256.7	1117.0
45°	1184.0	1374.1	1579.5	1760.3	1814.0	1730.4	1550.3	1366.4	1184.0	1043.0	932.7
47.5°	1078.9	1266.8	1470.2	1629.1	1648.1	1535.8	1339.0	1149.7	992.9	878.1	800.2
50°	1001.6	1190.1	1391.7	1533.5	1527.3	1391.7	1189.4	1009.3	878.2	785.5	733.4
52.5°	932.3	1110.4	1304.0	1432.9	1400.4	1252.5	1059.4	899.5	791.8	719.3	672.1
55°	824.6	989.4	1173.3	1276.7	1217.0	1053.0	889.7	761.0	681.3	626.9	590.1
57.5°	717.6	872.1	1029.5	1093.3	1027.2	875.8	739.7	646.3	586.4	546.1	522.2
60°	651.4	786.3	926.5	981.7	902.8	767.9	660.6	577.1	528.8	495.8	474.4
62.5°	585.2	706.0	838.2	868.3	796.1	682.1	587.0	517.6	477.9	448.6	428.4
65°	495.1	593.9	694.3	714.2	647.6	559.4	484.3	439.1	403.9	382.4	366.3
67.5°	406.0	485.4	556.5	572.6	514.2	453.1	398.8	359.4	335.5	317.7	304.1
70°	353.3	416.1	474.4	487.4	440.7	386.2	344.9	313.4	292.0	276.7	263.6
72.5°	297.5	349.9	398.3	407.1	368.9	327.4	293.4	268.7	249.7	239.9	227.5
75°	227.6	258.3	295.8	298.1	272.8	247.5	221.5	205.4	195.4	183.2	177.0
77.5°	160.6	184.7	206.1	210.3	195.3	178.1	163.5	150.8	142.4	136.7	131.0
80°	122.6	141.8	151.0	156.3	145.6	133.3	124.9	116.5	111.1	107.3	103.5
82.5°	87.7	99.5	108.1	112.2	106.4	99.0	90.6	85.8	81.7	78.5	77.1
85°	44.4	49.8	55.2	56.7	55.2	52.1	47.5	47.5	45.2	44.4	44.4
87.5°	16.1	19.1	19.6	22.0	21.5	22.5	23.5	23.9	24.3	23.6	22.9
90°	3.7	6.4	9.1	11.8	15.6	20.6	25.5	30.5	35.4	35.0	34.5
92.5°	20.0	22.0	24.0	26.0	27.5	28.7	29.9	31.0	32.2	32.3	32.4
95°	54.9	57.2	59.4	61.7	63.0	63.5	63.9	64.4	64.8	64.8	64.8
97.5°	98.2	100.2	102.2	104.1	105.6	106.4	107.3	108.1	109.0	109.0	109.0
100°	130.4	132.2	134.0	135.8	137.1	137.7	138.4	139.1	139.8	139.8	139.8
102.5°	164.1	165.5	167.0	168.4	169.6	170.4	171.3	172.1	173.0	173.2	173.4
105°	218.4	219.1	219.8	220.5	221.0	221.5	221.9	222.4	222.8	223.3	223.7
107.5°	274.3	275.2	276.2	277.2	277.7	277.7	277.7	277.7	277.7	277.9	278.1
110°	310.3	311.6	313.0	314.3	315.0	315.0	315.0	315.0	315.0	315.0	315.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	349.2	350.5	351.9	353.2	353.8	353.6	353.4	353.3	353.1	352.5	352.0
115°	406.5	407.8	409.2	410.5	411.0	410.5	410.1	409.6	409.2	409.0	408.7
117.5°	464.1	465.9	467.7	469.5	469.7	468.5	467.2	466.0	464.7	464.2	463.6
120°	502.2	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4	500.4	500.4
122.5°	537.4	539.5	541.7	543.8	544.3	543.0	541.8	540.5	539.2	538.7	538.2
125°	591.5	593.5	595.6	597.6	598.3	597.6	596.9	596.2	595.6	594.9	594.2
127.5°	644.9	647.5	650.1	652.6	653.5	652.7	651.9	651.1	650.3	649.4	648.6
130°	678.5	681.4	684.4	687.3	688.5	688.1	687.6	687.2	686.7	686.3	685.8
132.5°	715.2	717.6	720.0	722.4	723.6	723.7	723.8	723.9	724.0	723.0	722.0
135°	765.2	767.6	770.1	772.6	774.0	774.5	774.9	775.4	775.8	775.6	775.4
137.5°	817.2	819.2	821.2	823.2	824.6	825.1	825.7	826.3	826.9	826.7	826.5
140°	848.8	850.8	852.8	854.8	856.4	857.6	858.7	859.8	860.9	860.9	860.9
142.5°	881.2	883.2	885.2	887.3	888.7	889.4	890.2	891.0	891.7	891.9	892.1
145°	927.3	928.9	930.5	932.1	933.5	934.9	936.2	937.6	938.9	939.1	939.4
147.5°	969.2	971.1	972.9	974.8	976.2	977.1	978.0	978.9	979.8	980.3	980.8
150°	997.0	998.3	999.7	1001.0	1002.2	1003.1	1004.0	1004.9	1005.8	1006.4	1007.1
152.5°	1022.1	1023.5	1024.8	1026.2	1027.4	1028.5	1029.5	1030.6	1031.7	1032.5	1033.4
155°	1059.1	1059.8	1060.5	1061.1	1061.8	1062.5	1063.2	1063.8	1064.5	1065.6	1066.8
157.5°	1091.1	1091.5	1092.0	1092.4	1092.9	1093.3	1093.7	1094.1	1094.5	1096.0	1097.6
160°	1110.5	1111.0	1111.4	1111.9	1112.2	1112.5	1112.7	1112.9	1113.1	1114.5	1115.8
162.5°	1128.0	1128.1	1128.2	1128.3	1128.4	1128.7	1128.9	1129.1	1129.3	1130.9	1132.4
165°	1151.4	1151.2	1150.9	1150.7	1150.6	1150.6	1150.6	1150.6	1150.6	1152.2	1153.8
167.5°	1170.8	1170.1	1169.4	1168.8	1168.4	1168.4	1168.3	1168.3	1168.2	1169.8	1171.4
170°	1181.3	1180.7	1180.0	1179.3	1178.9	1178.6	1178.4	1178.2	1178.0	1179.5	1181.1
172.5°	1188.6	1187.9	1187.3	1186.6	1186.1	1185.9	1185.7	1185.5	1185.2	1186.8	1188.4
175°	1197.5	1196.9	1196.2	1195.5	1194.9	1194.5	1194.0	1193.6	1193.1	1194.7	1196.3
177.5°	1201.3	1200.8	1200.2	1199.7	1199.2	1198.9	1198.5	1198.2	1197.8	1198.9	1200.0
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2068.2	2076.8	2076.8	2078.0	2087.8	2086.6	2086.0
5°	2201.0	2214.0	2215.5	2229.3	2238.5	2235.4	2227.0
7.5°	2326.2	2350.4	2368.8	2379.1	2391.2	2398.7	2395.3
10°	2425.5	2460.8	2482.2	2496.8	2514.4	2527.4	2522.8
12.5°	2515.6	2557.6	2587.1	2612.0	2614.3	2631.0	2619.7
15°	2656.2	2700.6	2705.2	2723.6	2738.2	2736.6	2737.4
17.5°	2702.6	2716.9	2719.8	2720.2	2720.4	2715.0	2703.4
20°	2686.1	2680.7	2667.7	2657.7	2640.1	2637.8	2622.5
22.5°	2607.6	2590.6	2557.9	2536.3	2508.9	2501.7	2497.4
25°	2453.1	2415.5	2363.4	2313.6	2299.8	2273.0	2280.7
27.5°	2241.1	2182.6	2126.2	2085.7	2049.1	2008.9	2020.4
30°	2092.1	2026.2	1946.5	1885.2	1846.1	1807.8	1800.9
32.5°	1914.3	1817.8	1728.9	1674.9	1615.0	1590.8	1564.3
35°	1607.8	1513.5	1425.4	1349.5	1305.9	1272.1	1241.5
37.5°	1332.1	1223.6	1152.4	1091.0	1059.4	1040.1	1045.0
40°	1161.0	1066.0	1013.9	967.1	938.0	924.2	927.3
42.5°	1022.5	951.3	908.4	876.4	855.9	848.2	846.4
45°	865.2	825.4	790.1	771.7	761.8	753.3	748.0
47.5°	757.9	725.4	705.5	694.6	685.9	677.3	677.1
50°	693.5	672.1	658.3	646.8	639.9	633.8	639.1
52.5°	644.5	624.9	611.1	600.8	598.2	592.7	592.5
55°	571.7	556.4	546.4	537.2	532.6	529.5	525.7
57.5°	505.5	490.9	481.7	475.9	467.2	464.1	462.9
60°	458.3	446.8	437.6	429.9	426.1	420.0	420.0
62.5°	414.7	403.3	394.7	388.8	382.6	380.1	380.7
65°	351.8	342.6	334.1	328.0	326.5	321.9	323.4
67.5°	293.8	287.7	278.8	275.4	272.5	270.1	268.2
70°	255.2	249.1	244.5	239.9	237.6	237.6	237.6
72.5°	222.7	215.3	212.6	206.8	208.1	205.7	203.2
75°	172.4	167.8	165.5	163.2	159.4	159.4	159.4
77.5°	126.9	125.5	122.8	120.3	119.4	118.6	118.9
80°	98.1	97.3	95.8	95.8	94.3	93.5	92.0
82.5°	75.4	73.4	72.5	71.9	71.6	71.4	71.1
85°	42.9	41.4	41.4	42.1	40.6	40.6	41.4
87.5°	23.4	23.3	22.6	22.7	23.4	22.8	22.8
90°	34.1	33.6	33.5	33.8	34.0	34.2	34.4
92.5°	32.5	32.6	32.6	32.7	32.7	32.8	32.8
95°	64.8	64.8	64.6	64.1	63.7	63.2	62.8
97.5°	109.0	109.0	109.0	108.9	108.9	108.8	108.8
100°	139.8	139.8	139.7	139.4	139.2	139.0	138.8
102.5°	173.5	173.7	173.7	173.5	173.2	173.0	172.8
105°	224.2	224.6	224.9	224.9	224.9	224.9	224.9
107.5°	278.3	278.4	278.0	277.0	275.9	274.9	273.9
110°	315.0	315.0	314.7	314.0	313.3	312.6	312.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	351.5	350.9	350.4	349.9	349.4	348.9	348.4
115°	408.5	408.3	407.8	407.2	406.5	405.8	405.1
117.5°	463.1	462.5	461.9	461.3	460.6	459.9	459.2
120°	500.4	500.4	500.0	499.3	498.7	498.0	497.3
122.5°	537.6	537.1	536.6	536.1	535.6	535.1	534.6
125°	593.5	592.9	592.4	592.2	592.0	591.7	591.5
127.5°	647.8	647.0	646.2	645.5	644.8	644.1	643.4
130°	685.4	684.9	684.2	683.3	682.4	681.5	680.6
132.5°	721.0	720.0	719.2	718.5	717.7	717.0	716.3
135°	775.2	774.9	774.5	773.8	773.1	772.5	771.8
137.5°	826.4	826.2	825.6	824.7	823.8	822.9	822.0
140°	860.9	860.9	860.5	859.6	858.7	857.8	856.9
142.5°	892.3	892.4	892.1	891.2	890.3	889.4	888.5
145°	939.6	939.8	939.5	938.6	937.7	936.8	935.9
147.5°	981.3	981.8	981.6	980.8	979.9	979.1	978.2
150°	1007.8	1008.5	1008.5	1007.8	1007.1	1006.4	1005.8
152.5°	1034.3	1035.1	1035.1	1034.3	1033.4	1032.5	1031.7
155°	1067.9	1069.0	1069.2	1068.6	1067.9	1067.2	1066.5
157.5°	1099.1	1100.6	1100.8	1099.8	1098.7	1097.6	1096.5
160°	1117.2	1118.5	1118.8	1117.9	1117.0	1116.1	1115.2
162.5°	1133.9	1135.5	1135.7	1134.6	1133.5	1132.4	1131.4
165°	1155.3	1156.9	1157.1	1156.0	1154.9	1153.8	1152.6
167.5°	1173.0	1174.5	1174.7	1173.6	1172.4	1171.2	1170.1
170°	1182.7	1184.3	1184.4	1183.0	1181.7	1180.3	1179.0
172.5°	1190.0	1191.5	1191.7	1190.3	1189.0	1187.6	1186.3
175°	1197.9	1199.4	1199.6	1198.2	1196.9	1195.5	1194.2
177.5°	1201.0	1202.1	1202.1	1201.0	1200.0	1198.9	1197.8
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2

(END OF REPORT)