

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: P332082

Luminaire Tested: **S123DIP-S1165D1195U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332082
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-S1165D1195U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8998.3 lumens
Efficiency: N/A
Efficacy: 125.5 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

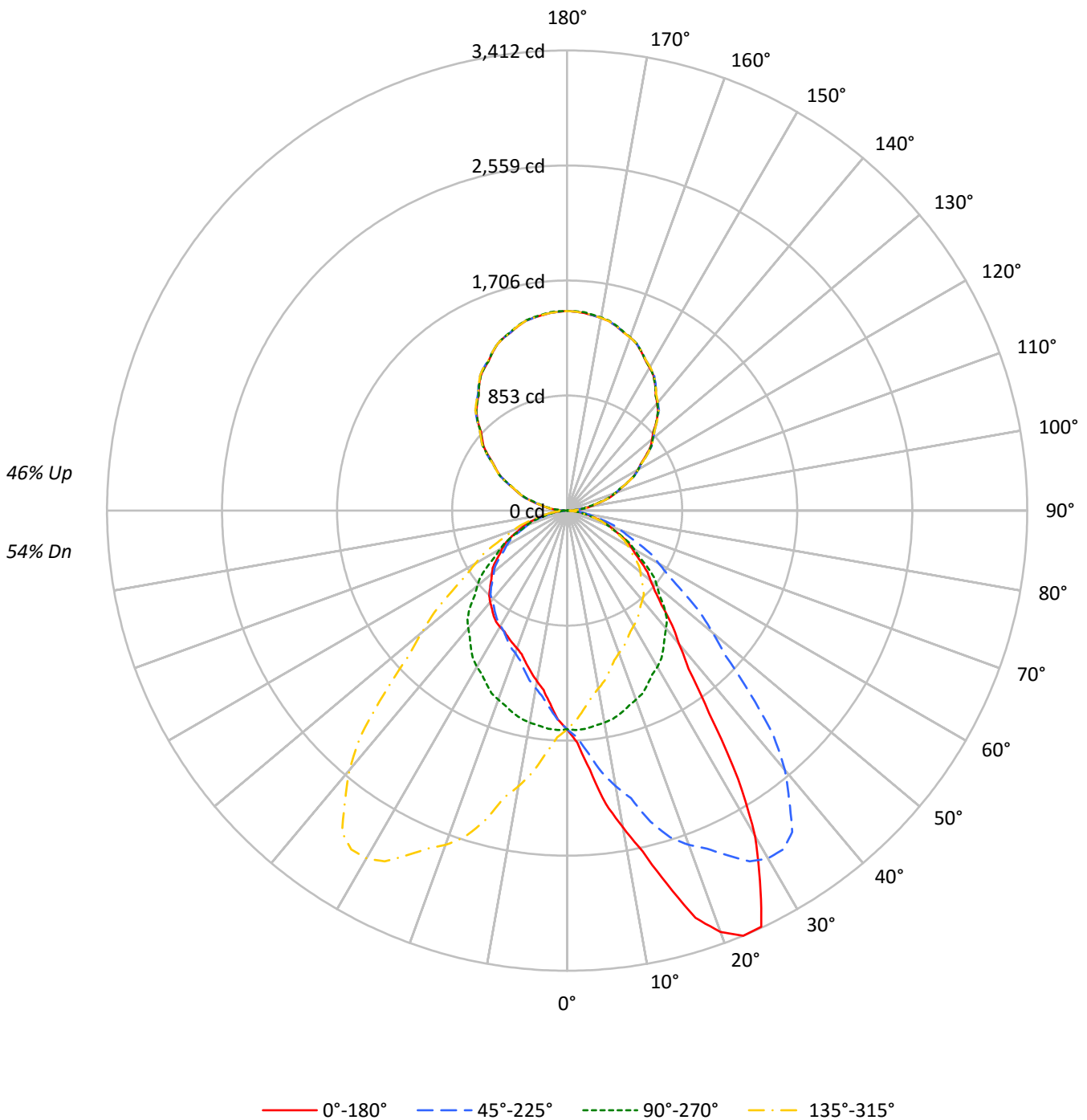
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	51	46
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	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	28	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	16	15

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	1.8
10°-20°	512.4	5.7
20°-30°	859.9	9.6
30°-40°	973.7	10.8
40°-50°	873.2	9.7
50°-60°	704.7	7.8
60°-70°	491.0	5.5
70°-80°	258.1	2.9
80°-90°	67.5	0.8
90°-100°	96.4	1.1
100°-110°	288.4	3.2
110°-120°	490.5	5.5
120°-130°	645.2	7.2
130°-140°	725.2	8.1
140°-150°	712.8	7.9
150°-160°	600.1	6.7
160°-170°	399.5	4.4
170°-180°	139.9	1.6
0°-30°	1532.1	17.0
0°-40°	2505.8	27.8
0°-60°	4083.7	45.4
0°-90°	4900.3	54.5
90°-120°	875.3	9.7
90°-150°	2958.5	32.9
90°-180°	4098.0	45.5
0°-180°	8998.3	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°	35	1	35	1	35	20
95°	91	69	91	69	91	93
105°	276	261	276	261	276	293
115°	495	494	495	494	495	490
125°	715	723	715	723	715	639
135°	936	938	936	938	936	720
145°	1138	1138	1138	1138	1138	710
155°	1300	1302	1300	1302	1300	599
165°	1414	1419	1414	1419	1414	399
175°	1470	1476	1470	1476	1470	140
180°	1479	1479	1479	1479	1479	



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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°	25.8	24.5	25.0	25.5	24.8	25.3	25.7	26.1	26.5	27.0	26.9
90°	34.9	34.3	33.8	33.3	32.8	32.0	31.0	30.0	28.9	27.9	24.5
92.5°	46.9	47.2	47.6	47.9	48.2	47.9	47.1	46.3	45.4	44.6	42.7
95°	90.6	90.6	90.6	90.6	90.6	90.1	89.1	88.0	87.0	86.0	83.9
97.5°	139.4	139.5	139.6	139.7	139.8	139.3	138.1	136.9	135.7	134.5	133.0
100°	176.6	176.1	175.6	175.1	174.5	173.9	173.1	172.3	171.6	170.8	169.5
102.5°	214.7	214.8	214.9	215.0	215.1	214.8	214.0	213.2	212.5	211.7	210.0
105°	276.5	276.0	275.5	275.0	274.5	274.2	274.2	274.2	274.2	274.2	271.9
107.5°	340.9	341.2	341.5	341.8	342.1	341.9	341.1	340.2	339.4	338.6	337.6
110°	384.6	385.1	385.6	386.1	386.6	386.4	385.4	384.3	383.3	382.3	381.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	431.1	431.2	431.3	431.4	431.5	430.9	429.7	428.4	427.2	425.9	425.8
115°	495.0	495.2	495.5	495.7	496.0	496.0	495.7	495.5	495.2	495.0	495.5
117.5°	559.8	560.5	561.2	562.0	562.7	563.1	563.1	563.2	563.2	563.3	564.0
120°	605.3	605.9	606.4	606.9	607.4	607.8	608.1	608.3	608.6	608.8	610.1
122.5°	649.0	649.7	650.5	651.2	651.9	652.6	653.3	654.0	654.6	655.3	656.0
125°	714.6	715.6	716.6	717.7	718.7	719.7	720.8	721.8	722.8	723.9	724.4
127.5°	779.9	781.0	782.2	783.4	784.6	785.9	787.4	788.8	790.3	791.7	792.3
130°	822.6	824.4	826.2	828.0	829.8	831.3	832.3	833.3	834.4	835.4	836.2
132.5°	867.2	868.6	870.0	871.4	872.8	874.1	875.4	876.6	877.8	879.1	879.6
135°	936.5	937.0	937.5	938.0	938.5	939.3	940.3	941.4	942.4	943.4	943.7
137.5°	997.6	998.6	999.6	1000.5	1001.5	1002.5	1003.6	1004.7	1005.8	1006.9	1006.2
140°	1037.6	1039.4	1041.2	1043.0	1044.8	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6
142.5°	1078.5	1079.9	1081.2	1082.6	1084.0	1084.9	1085.1	1085.4	1085.6	1085.9	1085.4
145°	1137.5	1138.5	1139.5	1140.6	1141.6	1142.3	1142.5	1142.8	1143.0	1143.3	1142.5
147.5°	1190.0	1191.5	1193.1	1194.6	1196.2	1197.0	1197.0	1197.0	1197.0	1197.0	1196.2
150°	1223.5	1225.0	1226.6	1228.1	1229.7	1230.4	1230.4	1230.4	1230.4	1230.4	1229.9
152.5°	1256.0	1257.3	1258.7	1260.0	1261.4	1261.8	1261.4	1261.0	1260.6	1260.2	1259.9
155°	1300.1	1302.0	1303.8	1305.6	1307.4	1307.8	1306.7	1305.7	1304.7	1303.6	1303.4
157.5°	1340.3	1341.8	1343.2	1344.7	1346.1	1346.3	1345.2	1344.1	1343.1	1342.0	1341.8
160°	1366.4	1367.4	1368.4	1369.5	1370.5	1370.4	1369.1	1367.8	1366.5	1365.2	1365.2
162.5°	1385.9	1387.5	1389.2	1390.8	1392.5	1392.7	1391.4	1390.1	1388.8	1387.5	1387.3
165°	1414.0	1415.8	1417.6	1419.4	1421.2	1421.4	1419.8	1418.3	1416.7	1415.2	1415.2
167.5°	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3	1442.7	1441.1	1439.5	1437.9	1437.7
170°	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3	1455.5	1453.6	1451.8	1450.0	1450.0
172.5°	1459.3	1461.1	1462.9	1464.7	1466.6	1466.7	1465.1	1463.5	1461.9	1460.3	1460.3
175°	1469.8	1471.6	1473.4	1475.2	1477.0	1477.1	1475.6	1474.0	1472.5	1470.9	1470.9
177.5°	1475.4	1476.8	1478.2	1479.7	1481.1	1481.2	1480.0	1478.8	1477.5	1476.3	1476.3
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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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°	27.5	27.5	24.9	21.8	20.0	17.6	17.1	15.3	14.6	15.1	15.0
90°	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2	3.7	6.3	8.9
92.5°	40.8	38.9	37.0	35.1	33.4	31.6	29.9	28.1	29.9	31.6	33.4
95°	81.8	79.8	77.7	75.8	74.0	72.2	70.4	68.6	70.4	72.2	74.0
97.5°	131.6	130.1	128.6	127.1	125.8	124.5	123.1	121.8	123.1	124.5	125.8
100°	168.2	166.9	165.6	164.2	162.7	161.1	159.6	158.0	159.6	161.1	162.7
102.5°	208.3	206.6	204.9	203.6	202.6	201.7	200.8	199.8	200.8	201.7	202.6
105°	269.6	267.2	264.9	263.5	263.0	262.5	261.9	261.4	261.9	262.5	263.0
107.5°	336.7	335.8	334.9	334.2	333.9	333.6	333.3	333.0	333.3	333.6	333.9
110°	381.2	380.7	380.2	379.7	379.2	378.6	378.1	377.6	378.1	378.6	379.2



TEST NUMBER: P332082

CATALOG NUMBER: S123DIP-S1165D1195U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	425.7	425.6	425.5	425.3	425.0	424.7	424.4	424.1	424.4	424.7	425.0
115°	496.0	496.5	497.0	496.9	496.1	495.3	494.6	493.8	494.6	495.3	496.1
117.5°	564.6	565.3	566.0	566.0	565.5	565.0	564.5	564.0	564.5	565.0	565.5
120°	611.4	612.7	614.0	613.9	612.3	610.8	609.2	607.7	609.2	610.8	612.3
122.5°	656.6	657.3	658.0	657.8	656.6	655.5	654.3	653.2	654.3	655.5	656.6
125°	724.9	725.4	725.9	725.8	725.0	724.2	723.5	722.7	723.5	724.2	725.0
127.5°	792.8	793.4	794.0	793.4	791.8	790.1	788.5	786.8	788.5	790.1	791.8
130°	836.9	837.7	838.5	837.8	835.8	833.7	831.6	829.6	831.6	833.7	835.8
132.5°	880.2	880.8	881.4	880.6	878.5	876.5	874.4	872.3	874.4	876.5	878.5
135°	944.0	944.2	944.5	943.8	942.3	940.7	939.2	937.6	939.2	940.7	942.3
137.5°	1005.5	1004.9	1004.2	1003.2	1001.9	1000.6	999.3	998.1	999.3	1000.6	1001.9
140°	1046.3	1046.1	1045.8	1045.0	1043.8	1042.5	1041.2	1039.9	1041.2	1042.5	1043.8
142.5°	1085.0	1084.5	1084.0	1083.2	1081.9	1080.6	1079.3	1078.0	1079.3	1080.6	1081.9
145°	1141.7	1141.0	1140.2	1139.5	1139.0	1138.5	1138.0	1137.5	1138.0	1138.5	1139.0
147.5°	1195.5	1194.8	1194.1	1193.3	1192.3	1191.4	1190.5	1189.5	1190.5	1191.4	1192.3
150°	1229.4	1228.9	1228.4	1227.9	1227.3	1226.8	1226.3	1225.8	1226.3	1226.8	1227.3
152.5°	1259.6	1259.2	1258.9	1258.4	1257.7	1257.0	1256.3	1255.5	1256.3	1257.0	1257.7
155°	1303.1	1302.9	1302.6	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
157.5°	1341.6	1341.4	1341.1	1341.2	1341.5	1341.8	1342.1	1342.4	1342.1	1341.8	1341.5
160°	1365.2	1365.2	1365.2	1365.5	1366.0	1366.5	1367.0	1367.5	1367.0	1366.5	1366.0
162.5°	1387.1	1386.9	1386.7	1387.0	1387.7	1388.4	1389.1	1389.8	1389.1	1388.4	1387.7
165°	1415.2	1415.2	1415.2	1415.6	1416.3	1417.1	1417.9	1418.7	1417.9	1417.1	1416.3
167.5°	1437.5	1437.3	1437.1	1437.5	1438.6	1439.6	1440.6	1441.7	1440.6	1439.6	1438.6
170°	1450.0	1450.0	1450.0	1450.5	1451.6	1452.6	1453.6	1454.7	1453.6	1452.6	1451.6
172.5°	1460.3	1460.3	1460.3	1460.8	1461.8	1462.8	1463.9	1464.9	1463.9	1462.8	1461.8
175°	1470.9	1470.9	1470.9	1471.5	1472.5	1473.5	1474.6	1475.6	1474.6	1473.5	1472.5
177.5°	1476.3	1476.3	1476.3	1476.7	1477.5	1478.4	1479.2	1480.0	1479.2	1478.4	1477.5
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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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°	14.9	16.1	16.1	17.4	17.5	18.8	19.0	17.9	18.1	20.2	17.9
90°	11.5	14.5	17.8	21.2	24.5	27.9	28.9	30.0	31.0	32.0	32.8
92.5°	35.1	37.0	38.9	40.8	42.7	44.6	45.4	46.3	47.1	47.9	48.2
95°	75.8	77.7	79.8	81.8	83.9	86.0	87.0	88.0	89.1	90.1	90.6
97.5°	127.1	128.6	130.1	131.6	133.0	134.5	135.7	136.9	138.1	139.3	139.8
100°	164.2	165.6	166.9	168.2	169.5	170.8	171.6	172.3	173.1	173.9	174.5
102.5°	203.6	204.9	206.6	208.3	210.0	211.7	212.5	213.2	214.0	214.8	215.1
105°	263.5	264.9	267.2	269.6	271.9	274.2	274.2	274.2	274.2	274.2	274.5
107.5°	334.2	334.9	335.8	336.7	337.6	338.6	339.4	340.2	341.1	341.9	342.1
110°	379.7	380.2	380.7	381.2	381.7	382.3	383.3	384.3	385.4	386.4	386.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	425.3	425.5	425.6	425.7	425.8	425.9	427.2	428.4	429.7	430.9	431.5
115°	496.9	497.0	496.5	496.0	495.5	495.0	495.2	495.5	495.7	496.0	496.0
117.5°	566.0	566.0	565.3	564.6	564.0	563.3	563.2	563.2	563.1	563.1	562.7
120°	613.9	614.0	612.7	611.4	610.1	608.8	608.6	608.3	608.1	607.8	607.4
122.5°	657.8	658.0	657.3	656.6	656.0	655.3	654.6	654.0	653.3	652.6	651.9
125°	725.8	725.9	725.4	724.9	724.4	723.9	722.8	721.8	720.8	719.7	718.7
127.5°	793.4	794.0	793.4	792.8	792.3	791.7	790.3	788.8	787.4	785.9	784.6
130°	837.8	838.5	837.7	836.9	836.2	835.4	834.4	833.3	832.3	831.3	829.8
132.5°	880.6	881.4	880.8	880.2	879.6	879.1	877.8	876.6	875.4	874.1	872.8
135°	943.8	944.5	944.2	944.0	943.7	943.4	942.4	941.4	940.3	939.3	938.5
137.5°	1003.2	1004.2	1004.9	1005.5	1006.2	1006.9	1005.8	1004.7	1003.6	1002.5	1001.5
140°	1045.0	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6	1046.3	1046.1	1045.8	1044.8
142.5°	1083.2	1084.0	1084.5	1085.0	1085.4	1085.9	1085.6	1085.4	1085.1	1084.9	1084.0
145°	1139.5	1140.2	1141.0	1141.7	1142.5	1143.3	1143.0	1142.8	1142.5	1142.3	1141.6
147.5°	1193.3	1194.1	1194.8	1195.5	1196.2	1197.0	1197.0	1197.0	1197.0	1197.0	1196.2
150°	1227.9	1228.4	1228.9	1229.4	1229.9	1230.4	1230.4	1230.4	1230.4	1230.4	1229.7
152.5°	1258.4	1258.9	1259.2	1259.6	1259.9	1260.2	1260.6	1261.0	1261.4	1261.8	1261.4
155°	1302.5	1302.6	1302.9	1303.1	1303.4	1303.6	1304.7	1305.7	1306.7	1307.8	1307.4
157.5°	1341.2	1341.1	1341.4	1341.6	1341.8	1342.0	1343.1	1344.1	1345.2	1346.3	1346.1
160°	1365.5	1365.2	1365.2	1365.2	1365.2	1365.2	1366.5	1367.8	1369.1	1370.4	1370.5
162.5°	1387.0	1386.7	1386.9	1387.1	1387.3	1387.5	1388.8	1390.1	1391.4	1392.7	1392.5
165°	1415.6	1415.2	1415.2	1415.2	1415.2	1415.2	1416.7	1418.3	1419.8	1421.4	1421.2
167.5°	1437.5	1437.1	1437.3	1437.5	1437.7	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3
170°	1450.5	1450.0	1450.0	1450.0	1450.0	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3
172.5°	1460.8	1460.3	1460.3	1460.3	1460.3	1460.3	1461.9	1463.5	1465.1	1466.7	1466.6
175°	1471.5	1470.9	1470.9	1470.9	1470.9	1470.9	1472.5	1474.0	1475.6	1477.1	1477.0
177.5°	1476.7	1476.3	1476.3	1476.3	1476.3	1476.3	1477.5	1478.8	1480.0	1481.2	1481.1
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



TEST NUMBER: P332082

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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°	18.0	18.1	17.6	17.0	17.6	18.1	18.0	17.9	20.2	18.1	17.9
90°	33.3	33.8	34.3	34.9	34.3	33.8	33.3	32.8	32.0	31.0	30.0
92.5°	47.9	47.6	47.2	46.9	47.2	47.6	47.9	48.2	47.9	47.1	46.3
95°	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.1	89.1	88.0
97.5°	139.7	139.6	139.5	139.4	139.5	139.6	139.7	139.8	139.3	138.1	136.9
100°	175.1	175.6	176.1	176.6	176.1	175.6	175.1	174.5	173.9	173.1	172.3
102.5°	215.0	214.9	214.8	214.7	214.8	214.9	215.0	215.1	214.8	214.0	213.2
105°	275.0	275.5	276.0	276.5	276.0	275.5	275.0	274.5	274.2	274.2	274.2
107.5°	341.8	341.5	341.2	340.9	341.2	341.5	341.8	342.1	341.9	341.1	340.2
110°	386.1	385.6	385.1	384.6	385.1	385.6	386.1	386.6	386.4	385.4	384.3



TEST NUMBER: P332082

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	431.4	431.3	431.2	431.1	431.2	431.3	431.4	431.5	430.9	429.7	428.4
115°	495.7	495.5	495.2	495.0	495.2	495.5	495.7	496.0	496.0	495.7	495.5
117.5°	562.0	561.2	560.5	559.8	560.5	561.2	562.0	562.7	563.1	563.1	563.2
120°	606.9	606.4	605.9	605.3	605.9	606.4	606.9	607.4	607.8	608.1	608.3
122.5°	651.2	650.5	649.7	649.0	649.7	650.5	651.2	651.9	652.6	653.3	654.0
125°	717.7	716.6	715.6	714.6	715.6	716.6	717.7	718.7	719.7	720.8	721.8
127.5°	783.4	782.2	781.0	779.9	781.0	782.2	783.4	784.6	785.9	787.4	788.8
130°	828.0	826.2	824.4	822.6	824.4	826.2	828.0	829.8	831.3	832.3	833.3
132.5°	871.4	870.0	868.6	867.2	868.6	870.0	871.4	872.8	874.1	875.4	876.6
135°	938.0	937.5	937.0	936.5	937.0	937.5	938.0	938.5	939.3	940.3	941.4
137.5°	1000.5	999.6	998.6	997.6	998.6	999.6	1000.5	1001.5	1002.5	1003.6	1004.7
140°	1043.0	1041.2	1039.4	1037.6	1039.4	1041.2	1043.0	1044.8	1045.8	1046.1	1046.3
142.5°	1082.6	1081.2	1079.9	1078.5	1079.9	1081.2	1082.6	1084.0	1084.9	1085.1	1085.4
145°	1140.6	1139.5	1138.5	1137.5	1138.5	1139.5	1140.6	1141.6	1142.3	1142.5	1142.8
147.5°	1194.6	1193.1	1191.5	1190.0	1191.5	1193.1	1194.6	1196.2	1197.0	1197.0	1197.0
150°	1228.1	1226.6	1225.0	1223.5	1225.0	1226.6	1228.1	1229.7	1230.4	1230.4	1230.4
152.5°	1260.0	1258.7	1257.3	1256.0	1257.3	1258.7	1260.0	1261.4	1261.8	1261.4	1261.0
155°	1305.6	1303.8	1302.0	1300.1	1302.0	1303.8	1305.6	1307.4	1307.8	1306.7	1305.7
157.5°	1344.7	1343.2	1341.8	1340.3	1341.8	1343.2	1344.7	1346.1	1346.3	1345.2	1344.1
160°	1369.5	1368.4	1367.4	1366.4	1367.4	1368.4	1369.5	1370.5	1370.4	1369.1	1367.8
162.5°	1390.8	1389.2	1387.5	1385.9	1387.5	1389.2	1390.8	1392.5	1392.7	1391.4	1390.1
165°	1419.4	1417.6	1415.8	1414.0	1415.8	1417.6	1419.4	1421.2	1421.4	1419.8	1418.3
167.5°	1442.7	1441.1	1439.5	1437.9	1439.5	1441.1	1442.7	1444.3	1444.3	1442.7	1441.1
170°	1455.5	1453.6	1451.8	1450.0	1451.8	1453.6	1455.5	1457.3	1457.3	1455.5	1453.6
172.5°	1464.7	1462.9	1461.1	1459.3	1461.1	1462.9	1464.7	1466.6	1466.7	1465.1	1463.5
175°	1475.2	1473.4	1471.6	1469.8	1471.6	1473.4	1475.2	1477.0	1477.1	1475.6	1474.0
177.5°	1479.7	1478.2	1476.8	1475.4	1476.8	1478.2	1479.7	1481.1	1481.2	1480.0	1478.8
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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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°	19.0	18.8	17.5	17.4	16.1	16.1	14.9	15.0	15.1	14.6	15.3
90°	28.9	27.9	24.5	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2
92.5°	45.4	44.6	42.7	40.8	38.9	37.0	35.1	33.4	31.6	29.9	28.1
95°	87.0	86.0	83.9	81.8	79.8	77.7	75.8	74.0	72.2	70.4	68.6
97.5°	135.7	134.5	133.0	131.6	130.1	128.6	127.1	125.8	124.5	123.1	121.8
100°	171.6	170.8	169.5	168.2	166.9	165.6	164.2	162.7	161.1	159.6	158.0
102.5°	212.5	211.7	210.0	208.3	206.6	204.9	203.6	202.6	201.7	200.8	199.8
105°	274.2	274.2	271.9	269.6	267.2	264.9	263.5	263.0	262.5	261.9	261.4
107.5°	339.4	338.6	337.6	336.7	335.8	334.9	334.2	333.9	333.6	333.3	333.0
110°	383.3	382.3	381.7	381.2	380.7	380.2	379.7	379.2	378.6	378.1	377.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	427.2	425.9	425.8	425.7	425.6	425.5	425.3	425.0	424.7	424.4	424.1
115°	495.2	495.0	495.5	496.0	496.5	497.0	496.9	496.1	495.3	494.6	493.8
117.5°	563.2	563.3	564.0	564.6	565.3	566.0	566.0	565.5	565.0	564.5	564.0
120°	608.6	608.8	610.1	611.4	612.7	614.0	613.9	612.3	610.8	609.2	607.7
122.5°	654.6	655.3	656.0	656.6	657.3	658.0	657.8	656.6	655.5	654.3	653.2
125°	722.8	723.9	724.4	724.9	725.4	725.9	725.8	725.0	724.2	723.5	722.7
127.5°	790.3	791.7	792.3	792.8	793.4	794.0	793.4	791.8	790.1	788.5	786.8
130°	834.4	835.4	836.2	836.9	837.7	838.5	837.8	835.8	833.7	831.6	829.6
132.5°	877.8	879.1	879.6	880.2	880.8	881.4	880.6	878.5	876.5	874.4	872.3
135°	942.4	943.4	943.7	944.0	944.2	944.5	943.8	942.3	940.7	939.2	937.6
137.5°	1005.8	1006.9	1006.2	1005.5	1004.9	1004.2	1003.2	1001.9	1000.6	999.3	998.1
140°	1046.6	1046.9	1046.6	1046.3	1046.1	1045.8	1045.0	1043.8	1042.5	1041.2	1039.9
142.5°	1085.6	1085.9	1085.4	1085.0	1084.5	1084.0	1083.2	1081.9	1080.6	1079.3	1078.0
145°	1143.0	1143.3	1142.5	1141.7	1141.0	1140.2	1139.5	1139.0	1138.5	1138.0	1137.5
147.5°	1197.0	1197.0	1196.2	1195.5	1194.8	1194.1	1193.3	1192.3	1191.4	1190.5	1189.5
150°	1230.4	1230.4	1229.9	1229.4	1228.9	1228.4	1227.9	1227.3	1226.8	1226.3	1225.8
152.5°	1260.6	1260.2	1259.9	1259.6	1259.2	1258.9	1258.4	1257.7	1257.0	1256.3	1255.5
155°	1304.7	1303.6	1303.4	1303.1	1302.9	1302.6	1302.5	1302.5	1302.5	1302.5	1302.5
157.5°	1343.1	1342.0	1341.8	1341.6	1341.4	1341.1	1341.2	1341.5	1341.8	1342.1	1342.4
160°	1366.5	1365.2	1365.2	1365.2	1365.2	1365.2	1365.5	1366.0	1366.5	1367.0	1367.5
162.5°	1388.8	1387.5	1387.3	1387.1	1386.9	1386.7	1387.0	1387.7	1388.4	1389.1	1389.8
165°	1416.7	1415.2	1415.2	1415.2	1415.2	1415.2	1415.6	1416.3	1417.1	1417.9	1418.7
167.5°	1439.5	1437.9	1437.7	1437.5	1437.3	1437.1	1437.5	1438.6	1439.6	1440.6	1441.7
170°	1451.8	1450.0	1450.0	1450.0	1450.0	1450.0	1450.5	1451.6	1452.6	1453.6	1454.7
172.5°	1461.9	1460.3	1460.3	1460.3	1460.3	1460.3	1460.8	1461.8	1462.8	1463.9	1464.9
175°	1472.5	1470.9	1470.9	1470.9	1470.9	1470.9	1471.5	1472.5	1473.5	1474.6	1475.6
177.5°	1477.5	1476.3	1476.3	1476.3	1476.3	1476.3	1476.7	1477.5	1478.4	1479.2	1480.0
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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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°	17.1	17.6	20.0	21.8	24.9	27.5	27.5	26.9	27.0	26.5	26.1
90°	3.7	6.3	8.9	11.5	14.5	17.8	21.2	24.5	27.9	28.9	30.0
92.5°	29.9	31.6	33.4	35.1	37.0	38.9	40.8	42.7	44.6	45.4	46.3
95°	70.4	72.2	74.0	75.8	77.7	79.8	81.8	83.9	86.0	87.0	88.0
97.5°	123.1	124.5	125.8	127.1	128.6	130.1	131.6	133.0	134.5	135.7	136.9
100°	159.6	161.1	162.7	164.2	165.6	166.9	168.2	169.5	170.8	171.6	172.3
102.5°	200.8	201.7	202.6	203.6	204.9	206.6	208.3	210.0	211.7	212.5	213.2
105°	261.9	262.5	263.0	263.5	264.9	267.2	269.6	271.9	274.2	274.2	274.2
107.5°	333.3	333.6	333.9	334.2	334.9	335.8	336.7	337.6	338.6	339.4	340.2
110°	378.1	378.6	379.2	379.7	380.2	380.7	381.2	381.7	382.3	383.3	384.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	424.4	424.7	425.0	425.3	425.5	425.6	425.7	425.8	425.9	427.2	428.4
115°	494.6	495.3	496.1	496.9	497.0	496.5	496.0	495.5	495.0	495.2	495.5
117.5°	564.5	565.0	565.5	566.0	566.0	565.3	564.6	564.0	563.3	563.2	563.2
120°	609.2	610.8	612.3	613.9	614.0	612.7	611.4	610.1	608.8	608.6	608.3
122.5°	654.3	655.5	656.6	657.8	658.0	657.3	656.6	656.0	655.3	654.6	654.0
125°	723.5	724.2	725.0	725.8	725.9	725.4	724.9	724.4	723.9	722.8	721.8
127.5°	788.5	790.1	791.8	793.4	794.0	793.4	792.8	792.3	791.7	790.3	788.8
130°	831.6	833.7	835.8	837.8	838.5	837.7	836.9	836.2	835.4	834.4	833.3
132.5°	874.4	876.5	878.5	880.6	881.4	880.8	880.2	879.6	879.1	877.8	876.6
135°	939.2	940.7	942.3	943.8	944.5	944.2	944.0	943.7	943.4	942.4	941.4
137.5°	999.3	1000.6	1001.9	1003.2	1004.2	1004.9	1005.5	1006.2	1006.9	1005.8	1004.7
140°	1041.2	1042.5	1043.8	1045.0	1045.8	1046.1	1046.3	1046.6	1046.9	1046.6	1046.3
142.5°	1079.3	1080.6	1081.9	1083.2	1084.0	1084.5	1085.0	1085.4	1085.9	1085.6	1085.4
145°	1138.0	1138.5	1139.0	1139.5	1140.2	1141.0	1141.7	1142.5	1143.3	1143.0	1142.8
147.5°	1190.5	1191.4	1192.3	1193.3	1194.1	1194.8	1195.5	1196.2	1197.0	1197.0	1197.0
150°	1226.3	1226.8	1227.3	1227.9	1228.4	1228.9	1229.4	1229.9	1230.4	1230.4	1230.4
152.5°	1256.3	1257.0	1257.7	1258.4	1258.9	1259.2	1259.6	1259.9	1260.2	1260.6	1261.0
155°	1302.5	1302.5	1302.5	1302.5	1302.6	1302.9	1303.1	1303.4	1303.6	1304.7	1305.7
157.5°	1342.1	1341.8	1341.5	1341.2	1341.1	1341.4	1341.6	1341.8	1342.0	1343.1	1344.1
160°	1367.0	1366.5	1366.0	1365.5	1365.2	1365.2	1365.2	1365.2	1365.2	1366.5	1367.8
162.5°	1389.1	1388.4	1387.7	1387.0	1386.7	1386.9	1387.1	1387.3	1387.5	1388.8	1390.1
165°	1417.9	1417.1	1416.3	1415.6	1415.2	1415.2	1415.2	1415.2	1415.2	1416.7	1418.3
167.5°	1440.6	1439.6	1438.6	1437.5	1437.1	1437.3	1437.5	1437.7	1437.9	1439.5	1441.1
170°	1453.6	1452.6	1451.6	1450.5	1450.0	1450.0	1450.0	1450.0	1450.0	1451.8	1453.6
172.5°	1463.9	1462.8	1461.8	1460.8	1460.3	1460.3	1460.3	1460.3	1460.3	1461.9	1463.5
175°	1474.6	1473.5	1472.5	1471.5	1470.9	1470.9	1470.9	1470.9	1470.9	1472.5	1474.0
177.5°	1479.2	1478.4	1477.5	1476.7	1476.3	1476.3	1476.3	1476.3	1476.3	1477.5	1478.8
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1



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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°	25.7	25.3	24.8	25.5	25.0	24.5	25.8
90°	31.0	32.0	32.8	33.3	33.8	34.3	34.9
92.5°	47.1	47.9	48.2	47.9	47.6	47.2	46.9
95°	89.1	90.1	90.6	90.6	90.6	90.6	90.6
97.5°	138.1	139.3	139.8	139.7	139.6	139.5	139.4
100°	173.1	173.9	174.5	175.1	175.6	176.1	176.6
102.5°	214.0	214.8	215.1	215.0	214.9	214.8	214.7
105°	274.2	274.2	274.5	275.0	275.5	276.0	276.5
107.5°	341.1	341.9	342.1	341.8	341.5	341.2	340.9
110°	385.4	386.4	386.6	386.1	385.6	385.1	384.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	429.7	430.9	431.5	431.4	431.3	431.2	431.1
115°	495.7	496.0	496.0	495.7	495.5	495.2	495.0
117.5°	563.1	563.1	562.7	562.0	561.2	560.5	559.8
120°	608.1	607.8	607.4	606.9	606.4	605.9	605.3
122.5°	653.3	652.6	651.9	651.2	650.5	649.7	649.0
125°	720.8	719.7	718.7	717.7	716.6	715.6	714.6
127.5°	787.4	785.9	784.6	783.4	782.2	781.0	779.9
130°	832.3	831.3	829.8	828.0	826.2	824.4	822.6
132.5°	875.4	874.1	872.8	871.4	870.0	868.6	867.2
135°	940.3	939.3	938.5	938.0	937.5	937.0	936.5
137.5°	1003.6	1002.5	1001.5	1000.5	999.6	998.6	997.6
140°	1046.1	1045.8	1044.8	1043.0	1041.2	1039.4	1037.6
142.5°	1085.1	1084.9	1084.0	1082.6	1081.2	1079.9	1078.5
145°	1142.5	1142.3	1141.6	1140.6	1139.5	1138.5	1137.5
147.5°	1197.0	1197.0	1196.2	1194.6	1193.1	1191.5	1190.0
150°	1230.4	1230.4	1229.7	1228.1	1226.6	1225.0	1223.5
152.5°	1261.4	1261.8	1261.4	1260.0	1258.7	1257.3	1256.0
155°	1306.7	1307.8	1307.4	1305.6	1303.8	1302.0	1300.1
157.5°	1345.2	1346.3	1346.1	1344.7	1343.2	1341.8	1340.3
160°	1369.1	1370.4	1370.5	1369.5	1368.4	1367.4	1366.4
162.5°	1391.4	1392.7	1392.5	1390.8	1389.2	1387.5	1385.9
165°	1419.8	1421.4	1421.2	1419.4	1417.6	1415.8	1414.0
167.5°	1442.7	1444.3	1444.3	1442.7	1441.1	1439.5	1437.9
170°	1455.5	1457.3	1457.3	1455.5	1453.6	1451.8	1450.0
172.5°	1465.1	1466.7	1466.6	1464.7	1462.9	1461.1	1459.3
175°	1475.6	1477.1	1477.0	1475.2	1473.4	1471.6	1469.8
177.5°	1480.0	1481.2	1481.1	1479.7	1478.2	1476.8	1475.4
180°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1

(END OF REPORT)