

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: P332483-940

Luminaire Tested: **S123RDIW-S1165D1320U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332483-940
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: S123RDIW-S1165D1320U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8159.8 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

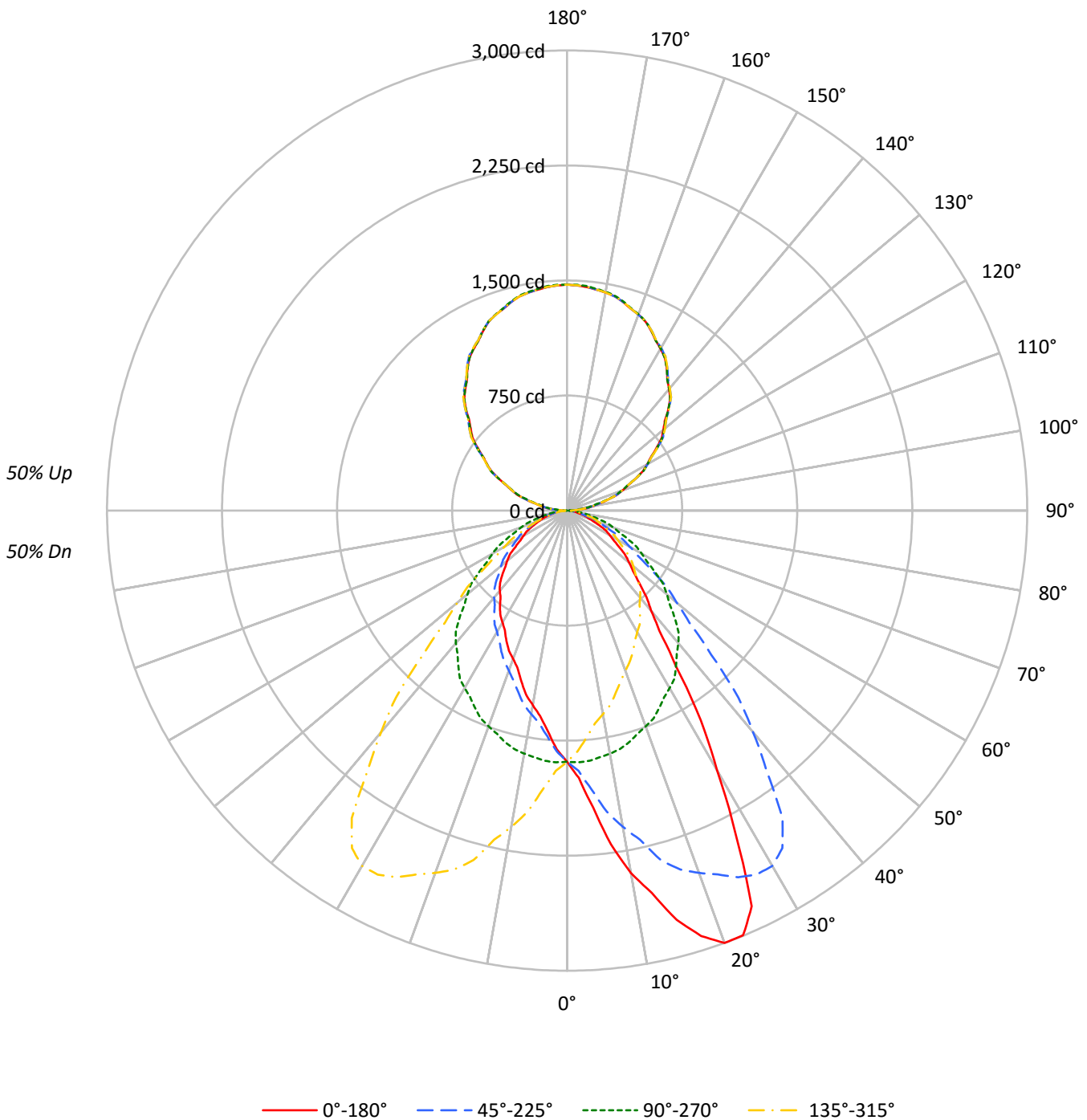
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	91	87	91	87	84	81	74	72	70	62	60	59	51	49	49	43
2	90	83	77	72	83	77	72	68	65	62	59	55	52	50	45	43	42	37
3	83	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	59	51	45	64	54	48	42	47	42	37	40	36	33	33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	60	48	40	35	55	45	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	22	20	18
9	52	40	32	27	48	37	31	26	32	27	23	28	24	21	24	21	18	16
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17623	17623	17623	17623
5°	21007	17698	15584	17698
10°	26230	17596	14080	17596
15°	30788	17416	12840	17416
20°	34360	17148	11786	17148
25°	33812	16865	11137	16865
30°	24304	16604	10470	16604
35°	16227	16264	10038	16264
40°	11956	15855	9591	15855
45°	10029	15139	9155	15139
50°	8848	14200	8544	14200
55°	7760	13127	7707	13127
60°	6910	12099	7061	12099
65°	6069	10998	6569	10998
70°	4765	10014	5998	10014
75°	4196	8746	5481	8746
80°	3651	7426	5387	7426
85°	2939	5965	5718	5965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	2.0
10°-20°	503.0	6.2
20°-30°	790.2	9.7
30°-40°	824.4	10.1
40°-50°	705.6	8.6
50°-60°	537.8	6.6
60°-70°	344.7	4.2
70°-80°	165.8	2.0
80°-90°	48.2	0.6
90°-100°	95.9	1.2
100°-110°	287.1	3.5
110°-120°	488.2	6.0
120°-130°	642.2	7.9
130°-140°	721.9	8.8
140°-150°	709.6	8.7
150°-160°	597.3	7.3
160°-170°	397.6	4.9
170°-180°	139.2	1.7
0°-30°	1454.2	17.8
0°-40°	2278.7	27.9
0°-60°	3522.0	43.2
0°-90°	4080.7	50.0
90°-120°	871.3	10.7
90°-150°	2944.9	36.1
90°-180°	4079.0	50.0
0°-180°	8159.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1637	1637	1637	1637	1637	
5°	1944	1638	1442	1638	1944	201
15°	2763	1563	1152	1563	2763	783
25°	2847	1420	938	1420	2847	1224
35°	1235	1238	764	1238	1235	810
45°	659	994	601	994	659	518
55°	414	700	411	700	414	374
65°	238	432	258	432	238	234
75°	101	210	132	210	101	108
85°	24	48	46	48	24	28
90°	35	1	35	1	35	18
95°	90	68	90	68	90	93
105°	275	260	275	260	275	292
115°	493	492	493	492	493	488
125°	711	719	711	719	711	636
135°	932	933	932	933	932	717
145°	1132	1132	1132	1132	1132	707
155°	1294	1296	1294	1296	1294	596
165°	1408	1412	1408	1412	1408	397
175°	1463	1469	1463	1469	1463	139
180°	1472	1472	1472	1472	1472	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1743.7	1746.0	1738.7	1737.6	1729.1	1726.9	1726.9	1715.1	1707.8	1698.4	1692.7
5°	1944.2	1955.4	1949.8	1937.2	1916.1	1911.2	1897.9	1876.9	1853.1	1823.6	1809.6
7.5°	2194.5	2209.8	2204.0	2184.4	2162.4	2144.7	2107.0	2072.2	2023.2	1980.3	1943.6
10°	2399.8	2383.6	2371.0	2352.1	2331.7	2298.8	2259.6	2205.6	2143.2	2094.2	2039.5
12.5°	2553.3	2550.7	2534.7	2515.2	2486.5	2455.2	2407.0	2341.3	2268.8	2197.9	2135.4
15°	2762.8	2767.0	2756.5	2736.1	2695.5	2640.1	2567.2	2539.9	2436.2	2359.1	2282.0
17.5°	2907.7	2906.9	2905.5	2877.3	2835.8	2796.4	2728.8	2656.9	2563.0	2454.4	2350.5
20°	2999.6	2992.7	2994.1	2962.5	2931.7	2886.1	2820.2	2715.8	2638.8	2513.3	2406.0
22.5°	2997.4	2996.1	3001.3	2990.5	2968.1	2933.2	2881.4	2793.2	2694.8	2568.2	2447.6
25°	2846.9	2841.3	2874.3	2883.3	2919.1	2925.3	2909.9	2861.6	2768.4	2638.0	2488.8
27.5°	2382.7	2379.5	2440.7	2517.2	2614.2	2689.6	2762.5	2797.7	2768.4	2675.0	2525.5
30°	1955.4	2021.2	2052.1	2162.8	2286.2	2433.4	2562.3	2684.9	2715.1	2674.5	2551.8
32.5°	1623.4	1681.0	1706.7	1801.8	1916.7	2089.1	2282.5	2456.2	2578.9	2609.9	2536.1
35°	1234.9	1235.6	1294.5	1336.5	1443.1	1620.4	1808.2	2040.9	2272.2	2447.4	2465.6
37.5°	985.4	988.9	1024.5	1066.4	1146.3	1240.1	1405.5	1598.9	1866.1	2135.1	2292.8
40°	850.9	857.1	883.8	925.1	982.6	1053.4	1182.3	1364.6	1587.4	1886.7	2131.3
42.5°	764.5	774.7	788.5	820.3	855.9	922.2	1026.4	1167.2	1369.9	1652.9	1935.1
45°	658.8	664.4	674.9	689.6	721.8	768.1	838.2	932.8	1101.1	1328.8	1611.2
47.5°	581.1	578.2	589.2	601.2	622.7	654.2	701.2	778.4	898.4	1081.1	1320.7
50°	528.4	527.7	535.5	544.6	564.9	588.0	626.6	684.7	780.1	931.5	1150.8
52.5°	479.1	481.8	487.2	498.6	513.3	532.0	566.6	608.5	690.4	821.0	1003.9
55°	413.5	415.6	423.3	429.6	440.1	459.1	480.8	515.9	571.9	663.0	813.7
57.5°	358.0	357.0	364.4	366.0	377.9	393.3	410.1	437.3	478.0	545.7	647.2
60°	321.0	318.9	325.2	330.1	336.4	349.0	363.0	389.7	422.0	471.7	558.6
62.5°	287.3	286.3	291.0	295.9	301.1	312.5	324.3	344.8	370.3	412.2	481.2
65°	238.3	240.4	242.5	244.6	247.4	254.4	265.6	279.6	297.2	326.6	376.4
67.5°	187.3	189.4	190.1	194.4	200.5	204.8	211.7	224.2	236.3	261.2	289.4
70°	151.4	150.7	151.4	153.5	161.2	168.9	178.0	187.2	194.8	212.3	236.2
72.5°	130.1	128.9	130.6	131.1	134.8	137.0	142.7	151.2	161.2	173.1	190.2
75°	100.9	100.9	100.9	100.9	103.7	105.1	107.3	109.3	112.8	118.4	131.1
77.5°	74.5	74.7	75.7	76.4	77.0	77.8	79.1	81.1	82.4	85.3	90.9
80°	58.9	59.6	58.9	59.6	59.6	61.0	61.7	63.8	64.5	67.9	70.1
82.5°	44.3	43.9	44.3	45.0	45.0	46.4	46.5	48.1	48.2	50.0	52.2
85°	23.8	22.5	23.8	23.1	24.5	23.1	23.8	25.2	25.2	25.9	28.7
87.5°	12.6	13.6	12.3	12.8	12.7	13.1	12.9	12.7	13.6	12.8	12.8
90°	34.7	34.2	33.7	33.2	32.6	31.8	30.9	29.8	28.8	27.7	24.4
92.5°	46.7	47.0	47.3	47.6	48.0	47.7	46.9	46.0	45.2	44.4	42.5
95°	90.2	90.2	90.2	90.2	90.2	89.7	88.6	87.7	86.6	85.6	83.6
97.5°	138.8	138.9	139.0	139.1	139.2	138.7	137.5	136.3	135.1	133.9	132.4
100°	175.8	175.3	174.8	174.2	173.7	173.1	172.3	171.6	170.8	170.0	168.7
102.5°	213.7	213.8	213.9	214.0	214.1	213.8	213.0	212.2	211.5	210.7	209.0
105°	275.3	274.7	274.2	273.8	273.2	273.0	273.0	273.0	273.0	273.0	270.6
107.5°	339.3	339.7	339.9	340.3	340.5	340.3	339.5	338.7	337.9	337.0	336.1
110°	382.8	383.3	383.9	384.3	384.9	384.6	383.6	382.5	381.6	380.5	380.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	429.1	429.2	429.3	429.4	429.4	428.9	427.7	426.4	425.3	424.0	423.9
115°	492.7	492.9	493.2	493.5	493.7	493.7	493.5	493.2	492.9	492.7	493.2
117.5°	557.2	557.9	558.7	559.4	560.1	560.4	560.5	560.6	560.6	560.7	561.3
120°	602.5	603.1	603.6	604.1	604.6	605.0	605.3	605.5	605.7	606.0	607.3
122.5°	646.0	646.8	647.5	648.2	648.9	649.6	650.2	650.9	651.6	652.3	652.9
125°	711.2	712.3	713.3	714.3	715.4	716.4	717.5	718.5	719.5	720.5	721.0
127.5°	776.2	777.5	778.6	779.8	781.0	782.3	783.7	785.2	786.6	788.1	788.6
130°	818.9	820.6	822.4	824.2	826.0	827.4	828.5	829.5	830.5	831.5	832.3
132.5°	863.3	864.6	866.0	867.4	868.8	870.1	871.3	872.5	873.8	875.0	875.6
135°	932.2	932.6	933.2	933.7	934.2	935.0	936.0	937.0	938.1	939.1	939.3
137.5°	993.0	994.0	995.0	996.0	996.9	997.9	999.0	1000.1	1001.1	1002.3	1001.6
140°	1032.8	1034.6	1036.3	1038.2	1040.0	1041.0	1041.3	1041.5	1041.8	1042.1	1041.8
142.5°	1073.5	1074.9	1076.3	1077.6	1079.1	1079.9	1080.1	1080.4	1080.7	1080.9	1080.4
145°	1132.2	1133.3	1134.3	1135.3	1136.4	1137.0	1137.3	1137.5	1137.7	1138.0	1137.3
147.5°	1184.5	1186.1	1187.6	1189.2	1190.7	1191.4	1191.4	1191.4	1191.4	1191.4	1190.7
150°	1217.8	1219.3	1220.9	1222.4	1224.0	1224.8	1224.8	1224.8	1224.8	1224.8	1224.2
152.5°	1250.2	1251.5	1252.9	1254.2	1255.5	1256.0	1255.6	1255.2	1254.8	1254.4	1254.1
155°	1294.1	1295.9	1297.8	1299.6	1301.4	1301.7	1300.7	1299.7	1298.7	1297.6	1297.4
157.5°	1334.2	1335.6	1337.0	1338.5	1339.9	1340.2	1339.0	1337.9	1336.9	1335.8	1335.6
160°	1360.0	1361.1	1362.2	1363.2	1364.2	1364.1	1362.8	1361.5	1360.2	1358.9	1358.9
162.5°	1379.5	1381.2	1382.8	1384.5	1386.1	1386.3	1385.0	1383.7	1382.4	1381.1	1380.9
165°	1407.5	1409.3	1411.1	1412.9	1414.7	1414.8	1413.3	1411.8	1410.2	1408.6	1408.6
167.5°	1431.3	1432.9	1434.5	1436.1	1437.7	1437.7	1436.1	1434.5	1432.9	1431.3	1431.1
170°	1443.3	1445.1	1447.0	1448.8	1450.5	1450.5	1448.8	1447.0	1445.1	1443.3	1443.3
172.5°	1452.6	1454.4	1456.2	1458.0	1459.8	1459.9	1458.3	1456.7	1455.1	1453.5	1453.5
175°	1463.0	1464.8	1466.6	1468.4	1470.2	1470.3	1468.8	1467.2	1465.7	1464.2	1464.2
177.5°	1468.6	1470.0	1471.4	1472.8	1474.4	1474.4	1473.2	1471.9	1470.7	1469.5	1469.5
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1690.5	1688.8	1681.0	1672.0	1660.2	1652.3	1646.2	1642.8	1632.7	1620.4	1611.9
5°	1794.9	1773.9	1751.4	1724.1	1698.9	1672.9	1656.8	1637.9	1614.8	1588.9	1570.7
7.5°	1906.7	1865.5	1821.1	1775.3	1730.0	1689.3	1653.5	1622.7	1585.9	1548.7	1522.7
10°	1992.5	1932.2	1869.9	1806.1	1747.9	1693.3	1651.2	1609.9	1565.8	1523.0	1490.8
12.5°	2070.5	1991.1	1919.2	1840.8	1766.5	1701.1	1640.6	1591.9	1538.8	1493.3	1456.5
15°	2169.2	2087.9	2000.9	1881.8	1783.0	1700.3	1626.7	1562.9	1498.4	1442.3	1406.6
17.5°	2261.4	2139.0	2022.2	1922.9	1794.5	1691.1	1601.3	1525.1	1454.3	1394.8	1350.9
20°	2299.5	2181.0	2054.2	1927.3	1801.2	1685.6	1581.1	1497.0	1423.4	1356.1	1315.5
22.5°	2322.5	2188.3	2054.8	1918.4	1784.4	1664.3	1560.9	1468.5	1388.7	1324.7	1274.6
25°	2349.3	2189.5	2042.3	1907.7	1771.0	1640.7	1518.0	1420.0	1333.7	1265.8	1212.5
27.5°	2367.0	2179.0	2005.0	1855.5	1716.8	1587.0	1474.6	1370.6	1283.2	1211.2	1154.1
30°	2370.3	2170.5	1976.4	1814.5	1673.7	1554.5	1435.4	1335.9	1243.3	1166.9	1113.7
32.5°	2374.8	2149.8	1937.7	1765.8	1621.5	1503.5	1395.5	1300.5	1205.8	1130.5	1076.1
35°	2356.3	2138.3	1879.0	1681.3	1537.0	1422.7	1325.3	1237.7	1144.5	1071.6	1016.3
37.5°	2276.6	2092.8	1818.2	1586.4	1435.4	1329.5	1250.2	1173.8	1088.3	1009.7	957.5
40°	2196.5	2047.9	1771.0	1528.6	1370.9	1262.2	1190.8	1128.4	1045.7	972.1	916.1
42.5°	2077.1	1986.8	1726.2	1468.0	1298.0	1193.3	1133.0	1074.5	1001.9	927.2	874.5
45°	1858.0	1869.9	1634.4	1371.5	1197.0	1091.9	1035.2	994.5	930.1	868.3	814.4
47.5°	1583.2	1694.7	1526.6	1268.8	1090.7	992.0	942.4	906.9	863.4	802.9	753.7
50°	1403.8	1562.9	1440.3	1199.9	1024.0	925.9	876.7	848.0	810.2	762.5	715.6
52.5°	1238.4	1409.3	1336.0	1123.0	951.6	861.9	814.0	790.3	760.3	715.4	673.0
55°	1010.0	1183.0	1166.3	1007.1	843.1	762.5	726.1	699.5	679.1	645.5	611.9
57.5°	816.9	981.1	989.7	878.2	747.5	667.9	636.5	616.4	603.2	577.8	546.7
60°	695.3	846.0	875.4	791.3	679.1	609.0	578.2	562.0	551.6	531.3	507.4
62.5°	594.3	722.6	755.9	695.4	613.5	548.0	523.8	508.3	501.1	483.6	462.5
65°	454.9	561.4	593.6	560.0	517.2	464.7	445.1	431.8	425.4	415.6	400.2
67.5°	342.1	419.6	455.0	431.3	415.9	382.6	370.1	363.0	357.4	350.7	337.8
70°	274.7	332.2	368.6	362.3	349.7	332.2	323.1	318.2	312.5	307.0	295.8
72.5°	220.9	260.5	294.6	297.8	287.5	284.0	276.0	273.9	270.5	263.8	257.6
75°	146.5	173.8	197.6	206.8	211.0	214.5	211.0	210.3	209.6	203.9	200.5
77.5°	96.0	110.8	125.7	141.3	147.8	152.7	153.7	156.3	154.4	151.5	149.8
80°	73.6	77.1	87.6	100.9	111.5	115.7	118.4	119.8	119.1	118.4	115.7
82.5°	53.4	56.4	61.3	70.6	79.5	86.5	88.2	87.9	89.4	89.9	87.6
85°	28.7	29.4	30.9	32.3	37.2	44.9	47.0	48.3	49.8	49.8	45.6
87.5°	13.2	11.9	12.4	11.9	13.0	13.0	15.9	18.2	19.3	17.5	18.0
90°	21.0	17.7	14.4	11.4	8.8	6.3	3.7	1.2	3.7	6.3	8.8
92.5°	40.6	38.7	36.8	35.0	33.3	31.5	29.7	28.0	29.7	31.5	33.3
95°	81.5	79.5	77.4	75.4	73.7	71.9	70.0	68.2	70.0	71.9	73.7
97.5°	130.9	129.5	128.0	126.5	125.2	123.9	122.5	121.2	122.5	123.9	125.2
100°	167.5	166.1	164.9	163.5	161.9	160.3	158.8	157.3	158.8	160.3	161.9
102.5°	207.3	205.6	203.9	202.6	201.7	200.8	199.8	198.9	199.8	200.8	201.7
105°	268.3	266.0	263.7	262.3	261.7	261.3	260.7	260.2	260.7	261.3	261.7
107.5°	335.2	334.2	333.3	332.7	332.4	332.1	331.8	331.4	331.8	332.1	332.4
110°	379.5	379.0	378.4	377.9	377.4	376.9	376.4	375.9	376.4	376.9	377.4



TEST NUMBER: P332483-940

CATALOG NUMBER: S123RDIW-S1165D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	423.7	423.7	423.6	423.4	423.0	422.8	422.4	422.1	422.4	422.8	423.0
115°	493.7	494.2	494.7	494.6	493.8	493.0	492.3	491.5	492.3	493.0	493.8
117.5°	562.0	562.7	563.4	563.5	562.9	562.4	561.9	561.4	561.9	562.4	562.9
120°	608.6	609.8	611.2	611.0	609.5	608.0	606.4	604.8	606.4	608.0	609.5
122.5°	653.6	654.2	655.0	654.7	653.6	652.5	651.3	650.2	651.3	652.5	653.6
125°	721.6	722.0	722.6	722.5	721.7	720.9	720.1	719.3	720.1	720.9	721.7
127.5°	789.2	789.8	790.3	789.8	788.1	786.5	784.9	783.2	784.9	786.5	788.1
130°	833.1	833.8	834.6	834.0	832.0	829.9	827.8	825.7	827.8	829.9	832.0
132.5°	876.2	876.7	877.3	876.6	874.5	872.4	870.4	868.3	870.4	872.4	874.5
135°	939.6	939.9	940.1	939.5	937.9	936.4	934.9	933.4	934.9	936.4	937.9
137.5°	1000.9	1000.2	999.6	998.6	997.3	996.0	994.7	993.5	994.7	996.0	997.3
140°	1041.5	1041.3	1041.0	1040.3	1038.9	1037.7	1036.3	1035.1	1036.3	1037.7	1038.9
142.5°	1080.0	1079.5	1079.1	1078.2	1076.9	1075.6	1074.3	1073.0	1074.3	1075.6	1076.9
145°	1136.5	1135.7	1135.0	1134.3	1133.8	1133.3	1132.7	1132.2	1132.7	1133.3	1133.8
147.5°	1190.0	1189.3	1188.6	1187.8	1186.9	1185.9	1185.0	1184.0	1185.0	1185.9	1186.9
150°	1223.7	1223.2	1222.7	1222.2	1221.6	1221.2	1220.7	1220.1	1220.7	1221.2	1221.6
152.5°	1253.7	1253.5	1253.1	1252.6	1251.9	1251.2	1250.4	1249.7	1250.4	1251.2	1251.9
155°	1297.1	1296.8	1296.6	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
157.5°	1335.3	1335.2	1335.0	1335.0	1335.3	1335.6	1336.0	1336.2	1336.0	1335.6	1335.3
160°	1358.9	1358.9	1358.9	1359.1	1359.7	1360.2	1360.8	1361.2	1360.8	1360.2	1359.7
162.5°	1380.7	1380.5	1380.3	1380.5	1381.3	1382.0	1382.7	1383.4	1382.7	1382.0	1381.3
165°	1408.6	1408.6	1408.6	1409.1	1409.8	1410.6	1411.3	1412.1	1411.3	1410.6	1409.8
167.5°	1430.9	1430.7	1430.5	1430.9	1431.9	1433.0	1434.0	1435.0	1434.0	1433.0	1431.9
170°	1443.3	1443.3	1443.3	1443.9	1444.9	1445.9	1447.0	1448.0	1447.0	1445.9	1444.9
172.5°	1453.5	1453.5	1453.5	1454.0	1455.1	1456.1	1457.1	1458.1	1457.1	1456.1	1455.1
175°	1464.2	1464.2	1464.2	1464.6	1465.7	1466.8	1467.8	1468.8	1467.8	1466.8	1465.7
177.5°	1469.5	1469.5	1469.5	1469.9	1470.7	1471.5	1472.4	1473.2	1472.4	1471.5	1470.7
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



TEST NUMBER: P332483-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1609.2	1601.9	1596.9	1585.6	1578.3	1570.5	1562.6	1567.7	1567.1	1566.6	1566.6
5°	1555.2	1539.1	1524.4	1505.5	1493.5	1478.8	1467.6	1466.2	1469.0	1459.2	1453.6
7.5°	1501.6	1479.6	1458.7	1437.9	1415.8	1398.1	1387.0	1381.8	1374.7	1368.6	1362.4
10°	1464.1	1438.2	1417.8	1391.9	1368.1	1347.0	1333.7	1324.6	1319.7	1314.8	1305.7
12.5°	1425.4	1400.1	1374.1	1344.8	1322.1	1297.7	1287.7	1277.6	1268.1	1262.7	1250.2
15°	1368.8	1335.9	1308.5	1277.6	1252.4	1228.6	1214.6	1194.3	1191.4	1184.5	1171.8
17.5°	1312.0	1276.2	1238.6	1215.7	1187.2	1162.4	1141.1	1134.3	1114.2	1106.6	1095.7
20°	1267.1	1234.2	1205.5	1175.4	1134.0	1110.9	1094.0	1084.9	1068.8	1059.0	1052.0
22.5°	1228.4	1195.0	1161.7	1126.6	1092.5	1066.6	1054.3	1040.1	1031.3	1017.5	1010.0
25°	1173.2	1136.8	1096.8	1059.0	1034.5	1014.9	995.2	982.6	970.0	963.7	949.7
27.5°	1109.0	1070.9	1033.6	1004.9	974.7	955.4	937.6	926.4	911.2	900.6	892.9
30°	1073.7	1028.9	996.6	970.7	932.1	913.9	900.6	886.6	875.4	864.2	856.5
32.5°	1032.8	991.8	961.3	929.2	899.6	879.7	862.5	850.2	840.6	829.9	822.2
35°	968.6	934.2	902.7	870.5	848.7	828.4	808.1	797.5	788.5	778.6	771.7
37.5°	910.5	878.4	848.5	817.9	790.9	774.5	758.0	750.0	737.7	731.1	724.0
40°	874.7	843.1	810.9	781.5	753.4	740.8	726.1	714.2	702.9	698.0	690.4
42.5°	835.4	803.9	776.7	745.0	722.0	704.9	691.3	678.3	669.9	662.7	658.4
45°	777.2	749.2	722.6	691.1	669.3	654.6	639.2	627.2	619.6	614.7	606.9
47.5°	720.8	692.8	665.7	638.2	617.2	600.4	585.0	576.7	566.4	560.4	555.2
50°	679.8	654.6	625.9	600.7	579.6	562.8	550.2	539.7	530.6	522.8	519.3
52.5°	642.3	615.4	590.6	566.9	544.8	525.8	514.2	503.2	496.3	487.5	483.5
55°	580.3	554.4	533.3	510.2	488.5	472.3	458.3	448.5	441.6	431.8	426.1
57.5°	522.1	498.9	473.8	453.7	431.3	417.7	406.1	392.8	384.2	376.5	371.0
60°	482.9	456.3	434.5	415.6	396.0	378.4	367.9	357.4	348.3	340.6	335.7
62.5°	441.9	418.7	398.1	377.5	359.5	344.3	332.1	323.2	315.2	310.3	305.4
65°	379.2	361.0	339.9	323.1	306.3	295.1	285.3	277.5	272.0	268.4	264.2
67.5°	321.4	303.7	285.3	268.9	257.6	249.1	242.6	236.0	233.3	228.7	226.0
70°	283.8	265.6	249.5	236.9	225.7	219.4	215.2	210.3	207.4	201.9	199.0
72.5°	242.9	229.7	218.1	207.8	198.8	193.1	187.7	181.6	177.2	171.0	168.2
75°	191.4	179.4	170.3	163.3	157.7	150.0	142.3	136.0	133.8	131.8	131.1
77.5°	141.7	134.1	127.5	121.6	114.7	109.1	107.4	105.9	105.6	104.4	104.4
80°	111.5	104.4	99.5	92.5	88.3	88.3	88.3	86.9	87.6	87.6	87.6
82.5°	82.8	76.4	73.7	71.2	70.4	70.9	70.9	71.2	70.8	71.9	71.3
85°	42.7	43.4	44.9	44.1	44.9	44.9	46.3	45.6	46.3	44.9	46.3
87.5°	18.0	20.2	21.5	22.7	24.0	24.1	24.8	25.1	25.8	26.0	26.1
90°	11.4	14.4	17.7	21.0	24.4	27.7	28.8	29.8	30.9	31.8	32.6
92.5°	35.0	36.8	38.7	40.6	42.5	44.4	45.2	46.0	46.9	47.7	48.0
95°	75.4	77.4	79.5	81.5	83.6	85.6	86.6	87.7	88.6	89.7	90.2
97.5°	126.5	128.0	129.5	130.9	132.4	133.9	135.1	136.3	137.5	138.7	139.2
100°	163.5	164.9	166.1	167.5	168.7	170.0	170.8	171.6	172.3	173.1	173.7
102.5°	202.6	203.9	205.6	207.3	209.0	210.7	211.5	212.2	213.0	213.8	214.1
105°	262.3	263.7	266.0	268.3	270.6	273.0	273.0	273.0	273.0	273.0	273.2
107.5°	332.7	333.3	334.2	335.2	336.1	337.0	337.9	338.7	339.5	340.3	340.5
110°	377.9	378.4	379.0	379.5	380.0	380.5	381.6	382.5	383.6	384.6	384.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	423.4	423.6	423.7	423.7	423.9	424.0	425.3	426.4	427.7	428.9	429.4
115°	494.6	494.7	494.2	493.7	493.2	492.7	492.9	493.2	493.5	493.7	493.7
117.5°	563.5	563.4	562.7	562.0	561.3	560.7	560.6	560.6	560.5	560.4	560.1
120°	611.0	611.2	609.8	608.6	607.3	606.0	605.7	605.5	605.3	605.0	604.6
122.5°	654.7	655.0	654.2	653.6	652.9	652.3	651.6	650.9	650.2	649.6	648.9
125°	722.5	722.6	722.0	721.6	721.0	720.5	719.5	718.5	717.5	716.4	715.4
127.5°	789.8	790.3	789.8	789.2	788.6	788.1	786.6	785.2	783.7	782.3	781.0
130°	834.0	834.6	833.8	833.1	832.3	831.5	830.5	829.5	828.5	827.4	826.0
132.5°	876.6	877.3	876.7	876.2	875.6	875.0	873.8	872.5	871.3	870.1	868.8
135°	939.5	940.1	939.9	939.6	939.3	939.1	938.1	937.0	936.0	935.0	934.2
137.5°	998.6	999.6	1000.2	1000.9	1001.6	1002.3	1001.1	1000.1	999.0	997.9	996.9
140°	1040.3	1041.0	1041.3	1041.5	1041.8	1042.1	1041.8	1041.5	1041.3	1041.0	1040.0
142.5°	1078.2	1079.1	1079.5	1080.0	1080.4	1080.9	1080.7	1080.4	1080.1	1079.9	1079.1
145°	1134.3	1135.0	1135.7	1136.5	1137.3	1138.0	1137.7	1137.5	1137.3	1137.0	1136.4
147.5°	1187.8	1188.6	1189.3	1190.0	1190.7	1191.4	1191.4	1191.4	1191.4	1191.4	1190.7
150°	1222.2	1222.7	1223.2	1223.7	1224.2	1224.8	1224.8	1224.8	1224.8	1224.8	1224.0
152.5°	1252.6	1253.1	1253.5	1253.7	1254.1	1254.4	1254.8	1255.2	1255.6	1256.0	1255.5
155°	1296.5	1296.6	1296.8	1297.1	1297.4	1297.6	1298.7	1299.7	1300.7	1301.7	1301.4
157.5°	1335.0	1335.0	1335.2	1335.3	1335.6	1335.8	1336.9	1337.9	1339.0	1340.2	1339.9
160°	1359.1	1358.9	1358.9	1358.9	1358.9	1358.9	1360.2	1361.5	1362.8	1364.1	1364.2
162.5°	1380.5	1380.3	1380.5	1380.7	1380.9	1381.1	1382.4	1383.7	1385.0	1386.3	1386.1
165°	1409.1	1408.6	1408.6	1408.6	1408.6	1408.6	1410.2	1411.8	1413.3	1414.8	1414.7
167.5°	1430.9	1430.5	1430.7	1430.9	1431.1	1431.3	1432.9	1434.5	1436.1	1437.7	1437.7
170°	1443.9	1443.3	1443.3	1443.3	1443.3	1443.3	1445.1	1447.0	1448.8	1450.5	1450.5
172.5°	1454.0	1453.5	1453.5	1453.5	1453.5	1453.5	1455.1	1456.7	1458.3	1459.9	1459.8
175°	1464.6	1464.2	1464.2	1464.2	1464.2	1464.2	1465.7	1467.2	1468.8	1470.3	1470.2
177.5°	1469.9	1469.5	1469.5	1469.5	1469.5	1469.5	1470.7	1471.9	1473.2	1474.4	1474.4
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



TEST NUMBER: P332483-940

CATALOG NUMBER: S123RDIW-S1165D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1559.9	1559.2	1559.9	1557.6	1559.9	1559.2	1559.9	1566.6	1566.6	1567.1	1567.7
5°	1451.4	1450.8	1448.7	1442.3	1448.7	1450.8	1451.4	1453.6	1459.2	1469.0	1466.2
7.5°	1356.8	1355.8	1349.7	1349.9	1349.7	1355.8	1356.8	1362.4	1368.6	1374.7	1381.8
10°	1300.8	1301.5	1293.1	1288.2	1293.1	1301.5	1300.8	1305.7	1314.8	1319.7	1324.6
12.5°	1246.4	1243.2	1236.4	1231.0	1236.4	1243.2	1246.4	1250.2	1262.7	1268.1	1277.6
15°	1174.7	1167.6	1150.8	1152.2	1150.8	1167.6	1174.7	1171.8	1184.5	1191.4	1194.3
17.5°	1090.1	1084.9	1084.7	1074.9	1084.7	1084.9	1090.1	1095.7	1106.6	1114.2	1134.3
20°	1040.8	1037.2	1038.7	1028.9	1038.7	1037.2	1040.8	1052.0	1059.0	1068.8	1084.9
22.5°	1002.1	998.5	992.7	989.6	992.7	998.5	1002.1	1010.0	1017.5	1031.3	1040.1
25°	945.5	939.9	934.2	937.7	934.2	939.9	945.5	949.7	963.7	970.0	982.6
27.5°	888.9	884.7	879.0	878.3	879.0	884.7	888.9	892.9	900.6	911.2	926.4
30°	852.9	848.7	846.0	842.4	846.0	848.7	852.9	856.5	864.2	875.4	886.6
32.5°	816.5	815.6	810.7	809.9	810.7	815.6	816.5	822.2	829.9	840.6	850.2
35°	768.8	764.6	763.2	763.9	763.2	764.6	768.8	771.7	778.6	788.5	797.5
37.5°	723.5	717.9	715.4	712.9	715.4	717.9	723.5	724.0	731.1	737.7	750.0
40°	691.1	685.5	684.0	682.6	684.0	685.5	691.1	690.4	698.0	702.9	714.2
42.5°	654.6	652.4	651.5	649.0	651.5	652.4	654.6	658.4	662.7	669.9	678.3
45°	604.8	604.1	599.9	601.4	599.9	604.1	604.8	606.9	614.7	619.6	627.2
47.5°	552.4	549.3	546.4	548.3	546.4	549.3	552.4	555.2	560.4	566.4	576.7
50°	516.6	515.1	508.8	510.2	508.8	515.1	516.6	519.3	522.8	530.6	539.7
52.5°	480.6	475.3	473.0	472.1	473.0	475.3	480.6	483.5	487.5	496.3	503.2
55°	421.2	414.9	412.1	410.7	412.1	414.9	421.2	426.1	431.8	441.6	448.5
57.5°	362.9	361.2	359.0	360.5	359.0	361.2	362.9	371.0	376.5	384.2	392.8
60°	328.7	328.7	328.7	328.0	328.7	328.7	328.7	335.7	340.6	348.3	357.4
62.5°	302.4	300.7	300.1	301.1	300.1	300.7	302.4	305.4	310.3	315.2	323.2
65°	262.2	261.4	258.6	257.9	258.6	261.4	262.2	264.2	268.4	272.0	277.5
67.5°	224.2	221.6	220.8	219.8	220.8	221.6	224.2	226.0	228.7	233.3	236.0
70°	195.6	194.1	189.9	190.6	189.9	194.1	195.6	199.0	201.9	207.4	210.3
72.5°	164.7	163.3	162.5	161.5	162.5	163.3	164.7	168.2	171.0	177.2	181.6
75°	130.4	129.7	128.9	131.8	128.9	129.7	130.4	131.1	131.8	133.8	136.0
77.5°	104.4	104.4	104.9	103.7	104.9	104.4	104.4	104.4	104.4	105.6	105.9
80°	87.6	87.6	86.9	86.9	86.9	87.6	87.6	87.6	87.6	87.6	86.9
82.5°	70.3	70.8	71.2	70.1	71.2	70.8	70.3	71.3	71.9	70.8	71.2
85°	46.3	45.6	47.0	46.3	47.0	45.6	46.3	46.3	44.9	46.3	45.6
87.5°	27.4	26.4	26.5	27.1	26.5	26.4	27.4	26.1	26.0	25.8	25.1
90°	33.2	33.7	34.2	34.7	34.2	33.7	33.2	32.6	31.8	30.9	29.8
92.5°	47.6	47.3	47.0	46.7	47.0	47.3	47.6	48.0	47.7	46.9	46.0
95°	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	89.7	88.6	87.7
97.5°	139.1	139.0	138.9	138.8	138.9	139.0	139.1	139.2	138.7	137.5	136.3
100°	174.2	174.8	175.3	175.8	175.3	174.8	174.2	173.7	173.1	172.3	171.6
102.5°	214.0	213.9	213.8	213.7	213.8	213.9	214.0	214.1	213.8	213.0	212.2
105°	273.8	274.2	274.7	275.3	274.7	274.2	273.8	273.2	273.0	273.0	273.0
107.5°	340.3	339.9	339.7	339.3	339.7	339.9	340.3	340.5	340.3	339.5	338.7
110°	384.3	383.9	383.3	382.8	383.3	383.9	384.3	384.9	384.6	383.6	382.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	429.4	429.3	429.2	429.1	429.2	429.3	429.4	429.4	428.9	427.7	426.4
115°	493.5	493.2	492.9	492.7	492.9	493.2	493.5	493.7	493.7	493.5	493.2
117.5°	559.4	558.7	557.9	557.2	557.9	558.7	559.4	560.1	560.4	560.5	560.6
120°	604.1	603.6	603.1	602.5	603.1	603.6	604.1	604.6	605.0	605.3	605.5
122.5°	648.2	647.5	646.8	646.0	646.8	647.5	648.2	648.9	649.6	650.2	650.9
125°	714.3	713.3	712.3	711.2	712.3	713.3	714.3	715.4	716.4	717.5	718.5
127.5°	779.8	778.6	777.5	776.2	777.5	778.6	779.8	781.0	782.3	783.7	785.2
130°	824.2	822.4	820.6	818.9	820.6	822.4	824.2	826.0	827.4	828.5	829.5
132.5°	867.4	866.0	864.6	863.3	864.6	866.0	867.4	868.8	870.1	871.3	872.5
135°	933.7	933.2	932.6	932.2	932.6	933.2	933.7	934.2	935.0	936.0	937.0
137.5°	996.0	995.0	994.0	993.0	994.0	995.0	996.0	996.9	997.9	999.0	1000.1
140°	1038.2	1036.3	1034.6	1032.8	1034.6	1036.3	1038.2	1040.0	1041.0	1041.3	1041.5
142.5°	1077.6	1076.3	1074.9	1073.5	1074.9	1076.3	1077.6	1079.1	1079.9	1080.1	1080.4
145°	1135.3	1134.3	1133.3	1132.2	1133.3	1134.3	1135.3	1136.4	1137.0	1137.3	1137.5
147.5°	1189.2	1187.6	1186.1	1184.5	1186.1	1187.6	1189.2	1190.7	1191.4	1191.4	1191.4
150°	1222.4	1220.9	1219.3	1217.8	1219.3	1220.9	1222.4	1224.0	1224.8	1224.8	1224.8
152.5°	1254.2	1252.9	1251.5	1250.2	1251.5	1252.9	1254.2	1255.5	1256.0	1255.6	1255.2
155°	1299.6	1297.8	1295.9	1294.1	1295.9	1297.8	1299.6	1301.4	1301.7	1300.7	1299.7
157.5°	1338.5	1337.0	1335.6	1334.2	1335.6	1337.0	1338.5	1339.9	1340.2	1339.0	1337.9
160°	1363.2	1362.2	1361.1	1360.0	1361.1	1362.2	1363.2	1364.2	1364.1	1362.8	1361.5
162.5°	1384.5	1382.8	1381.2	1379.5	1381.2	1382.8	1384.5	1386.1	1386.3	1385.0	1383.7
165°	1412.9	1411.1	1409.3	1407.5	1409.3	1411.1	1412.9	1414.7	1414.8	1413.3	1411.8
167.5°	1436.1	1434.5	1432.9	1431.3	1432.9	1434.5	1436.1	1437.7	1437.7	1436.1	1434.5
170°	1448.8	1447.0	1445.1	1443.3	1445.1	1447.0	1448.8	1450.5	1450.5	1448.8	1447.0
172.5°	1458.0	1456.2	1454.4	1452.6	1454.4	1456.2	1458.0	1459.8	1459.9	1458.3	1456.7
175°	1468.4	1466.6	1464.8	1463.0	1464.8	1466.6	1468.4	1470.2	1470.3	1468.8	1467.2
177.5°	1472.8	1471.4	1470.0	1468.6	1470.0	1471.4	1472.8	1474.4	1474.4	1473.2	1471.9
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1562.6	1570.5	1578.3	1585.6	1596.9	1601.9	1609.2	1611.9	1620.4	1632.7	1642.8
5°	1467.6	1478.8	1493.5	1505.5	1524.4	1539.1	1555.2	1570.7	1588.9	1614.8	1637.9
7.5°	1387.0	1398.1	1415.8	1437.9	1458.7	1479.6	1501.6	1522.7	1548.7	1585.9	1622.7
10°	1333.7	1347.0	1368.1	1391.9	1417.8	1438.2	1464.1	1490.8	1523.0	1565.8	1609.9
12.5°	1287.7	1297.7	1322.1	1344.8	1374.1	1400.1	1425.4	1456.5	1493.3	1538.8	1591.9
15°	1214.6	1228.6	1252.4	1277.6	1308.5	1335.9	1368.8	1406.6	1442.3	1498.4	1562.9
17.5°	1141.1	1162.4	1187.2	1215.7	1238.6	1276.2	1312.0	1350.9	1394.8	1454.3	1525.1
20°	1094.0	1110.9	1134.0	1175.4	1205.5	1234.2	1267.1	1315.5	1356.1	1423.4	1497.0
22.5°	1054.3	1066.6	1092.5	1126.6	1161.7	1195.0	1228.4	1274.6	1324.7	1388.7	1468.5
25°	995.2	1014.9	1034.5	1059.0	1096.8	1136.8	1173.2	1212.5	1265.8	1333.7	1420.0
27.5°	937.6	955.4	974.7	1004.9	1033.6	1070.9	1109.0	1154.1	1211.2	1283.2	1370.6
30°	900.6	913.9	932.1	970.7	996.6	1028.9	1073.7	1113.7	1166.9	1243.3	1335.9
32.5°	862.5	879.7	899.6	929.2	961.3	991.8	1032.8	1076.1	1130.5	1205.8	1300.5
35°	808.1	828.4	848.7	870.5	902.7	934.2	968.6	1016.3	1071.6	1144.5	1237.7
37.5°	758.0	774.5	790.9	817.9	848.5	878.4	910.5	957.5	1009.7	1088.3	1173.8
40°	726.1	740.8	753.4	781.5	810.9	843.1	874.7	916.1	972.1	1045.7	1128.4
42.5°	691.3	704.9	722.0	745.0	776.7	803.9	835.4	874.5	927.2	1001.9	1074.5
45°	639.2	654.6	669.3	691.1	722.6	749.2	777.2	814.4	868.3	930.1	994.5
47.5°	585.0	600.4	617.2	638.2	665.7	692.8	720.8	753.7	802.9	863.4	906.9
50°	550.2	562.8	579.6	600.7	625.9	654.6	679.8	715.6	762.5	810.2	848.0
52.5°	514.2	525.8	544.8	566.9	590.6	615.4	642.3	673.0	715.4	760.3	790.3
55°	458.3	472.3	488.5	510.2	533.3	554.4	580.3	611.9	645.5	679.1	699.5
57.5°	406.1	417.7	431.3	453.7	473.8	498.9	522.1	546.7	577.8	603.2	616.4
60°	367.9	378.4	396.0	415.6	434.5	456.3	482.9	507.4	531.3	551.6	562.0
62.5°	332.1	344.3	359.5	377.5	398.1	418.7	441.9	462.5	483.6	501.1	508.3
65°	285.3	295.1	306.3	323.1	339.9	361.0	379.2	400.2	415.6	425.4	431.8
67.5°	242.6	249.1	257.6	268.9	285.3	303.7	321.4	337.8	350.7	357.4	363.0
70°	215.2	219.4	225.7	236.9	249.5	265.6	283.8	295.8	307.0	312.5	318.2
72.5°	187.7	193.1	198.8	207.8	218.1	229.7	242.9	257.6	263.8	270.5	273.9
75°	142.3	150.0	157.7	163.3	170.3	179.4	191.4	200.5	203.9	209.6	210.3
77.5°	107.4	109.1	114.7	121.6	127.5	134.1	141.7	149.8	151.5	154.4	156.3
80°	88.3	88.3	88.3	92.5	99.5	104.4	111.5	115.7	118.4	119.1	119.8
82.5°	70.9	70.9	70.4	71.2	73.7	76.4	82.8	87.6	89.9	89.4	87.9
85°	46.3	44.9	44.9	44.1	44.9	43.4	42.7	45.6	49.8	49.8	48.3
87.5°	24.8	24.1	24.0	22.7	21.5	20.2	18.0	18.0	17.5	19.3	18.2
90°	28.8	27.7	24.4	21.0	17.7	14.4	11.4	8.8	6.3	3.7	1.2
92.5°	45.2	44.4	42.5	40.6	38.7	36.8	35.0	33.3	31.5	29.7	28.0
95°	86.6	85.6	83.6	81.5	79.5	77.4	75.4	73.7	71.9	70.0	68.2
97.5°	135.1	133.9	132.4	130.9	129.5	128.0	126.5	125.2	123.9	122.5	121.2
100°	170.8	170.0	168.7	167.5	166.1	164.9	163.5	161.9	160.3	158.8	157.3
102.5°	211.5	210.7	209.0	207.3	205.6	203.9	202.6	201.7	200.8	199.8	198.9
105°	273.0	273.0	270.6	268.3	266.0	263.7	262.3	261.7	261.3	260.7	260.2
107.5°	337.9	337.0	336.1	335.2	334.2	333.3	332.7	332.4	332.1	331.8	331.4
110°	381.6	380.5	380.0	379.5	379.0	378.4	377.9	377.4	376.9	376.4	375.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	425.3	424.0	423.9	423.7	423.7	423.6	423.4	423.0	422.8	422.4	422.1
115°	492.9	492.7	493.2	493.7	494.2	494.7	494.6	493.8	493.0	492.3	491.5
117.5°	560.6	560.7	561.3	562.0	562.7	563.4	563.5	562.9	562.4	561.9	561.4
120°	605.7	606.0	607.3	608.6	609.8	611.2	611.0	609.5	608.0	606.4	604.8
122.5°	651.6	652.3	652.9	653.6	654.2	655.0	654.7	653.6	652.5	651.3	650.2
125°	719.5	720.5	721.0	721.6	722.0	722.6	722.5	721.7	720.9	720.1	719.3
127.5°	786.6	788.1	788.6	789.2	789.8	790.3	789.8	788.1	786.5	784.9	783.2
130°	830.5	831.5	832.3	833.1	833.8	834.6	834.0	832.0	829.9	827.8	825.7
132.5°	873.8	875.0	875.6	876.2	876.7	877.3	876.6	874.5	872.4	870.4	868.3
135°	938.1	939.1	939.3	939.6	939.9	940.1	939.5	937.9	936.4	934.9	933.4
137.5°	1001.1	1002.3	1001.6	1000.9	1000.2	999.6	998.6	997.3	996.0	994.7	993.5
140°	1041.8	1042.1	1041.8	1041.5	1041.3	1041.0	1040.3	1038.9	1037.7	1036.3	1035.1
142.5°	1080.7	1080.9	1080.4	1080.0	1079.5	1079.1	1078.2	1076.9	1075.6	1074.3	1073.0
145°	1137.7	1138.0	1137.3	1136.5	1135.7	1135.0	1134.3	1133.8	1133.3	1132.7	1132.2
147.5°	1191.4	1191.4	1190.7	1190.0	1189.3	1188.6	1187.8	1186.9	1185.9	1185.0	1184.0
150°	1224.8	1224.8	1224.2	1223.7	1223.2	1222.7	1222.2	1221.6	1221.2	1220.7	1220.1
152.5°	1254.8	1254.4	1254.1	1253.7	1253.5	1253.1	1252.6	1251.9	1251.2	1250.4	1249.7
155°	1298.7	1297.6	1297.4	1297.1	1296.8	1296.6	1296.5	1296.5	1296.5	1296.5	1296.5
157.5°	1336.9	1335.8	1335.6	1335.3	1335.2	1335.0	1335.0	1335.3	1335.6	1336.0	1336.2
160°	1360.2	1358.9	1358.9	1358.9	1358.9	1358.9	1359.1	1359.7	1360.2	1360.8	1361.2
162.5°	1382.4	1381.1	1380.9	1380.7	1380.5	1380.3	1380.5	1381.3	1382.0	1382.7	1383.4
165°	1410.2	1408.6	1408.6	1408.6	1408.6	1408.6	1409.1	1409.8	1410.6	1411.3	1412.1
167.5°	1432.9	1431.3	1431.1	1430.9	1430.7	1430.5	1430.9	1431.9	1433.0	1434.0	1435.0
170°	1445.1	1443.3	1443.3	1443.3	1443.3	1443.3	1443.9	1444.9	1445.9	1447.0	1448.0
172.5°	1455.1	1453.5	1453.5	1453.5	1453.5	1453.5	1454.0	1455.1	1456.1	1457.1	1458.1
175°	1465.7	1464.2	1464.2	1464.2	1464.2	1464.2	1464.6	1465.7	1466.8	1467.8	1468.8
177.5°	1470.7	1469.5	1469.5	1469.5	1469.5	1469.5	1469.9	1470.7	1471.5	1472.4	1473.2
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1646.2	1652.3	1660.2	1672.0	1681.0	1688.8	1690.5	1692.7	1698.4	1707.8	1715.1
5°	1656.8	1672.9	1698.9	1724.1	1751.4	1773.9	1794.9	1809.6	1823.6	1853.1	1876.9
7.5°	1653.5	1689.3	1730.0	1775.3	1821.1	1865.5	1906.7	1943.6	1980.3	2023.2	2072.2
10°	1651.2	1693.3	1747.9	1806.1	1869.9	1932.2	1992.5	2039.5	2094.2	2143.2	2205.6
12.5°	1640.6	1701.1	1766.5	1840.8	1919.2	1991.1	2070.5	2135.4	2197.9	2268.8	2341.3
15°	1626.7	1700.3	1783.0	1881.8	2000.9	2087.9	2169.2	2282.0	2359.1	2436.2	2539.9
17.5°	1601.3	1691.1	1794.5	1922.9	2022.2	2139.0	2261.4	2350.5	2454.4	2563.0	2656.9
20°	1581.1	1685.6	1801.2	1927.3	2054.2	2181.0	2299.5	2406.0	2513.3	2638.8	2715.8
22.5°	1560.9	1664.3	1784.4	1918.4	2054.8	2188.3	2322.5	2447.6	2568.2	2694.8	2793.2
25°	1518.0	1640.7	1771.0	1907.7	2042.3	2189.5	2349.3	2488.8	2638.0	2768.4	2861.6
27.5°	1474.6	1587.0	1716.8	1855.5	2005.0	2179.0	2367.0	2525.5	2675.0	2768.4	2797.7
30°	1435.4	1554.5	1673.7	1814.5	1976.4	2170.5	2370.3	2551.8	2674.5	2715.1	2684.9
32.5°	1395.5	1503.5	1621.5	1765.8	1937.7	2149.8	2374.8	2536.1	2609.9	2578.9	2456.2
35°	1325.3	1422.7	1537.0	1681.3	1879.0	2138.3	2356.3	2465.6	2447.4	2272.2	2040.9
37.5°	1250.2	1329.5	1435.4	1586.4	1818.2	2092.8	2276.6	2292.8	2135.1	1866.1	1598.9
40°	1190.8	1262.2	1370.9	1528.6	1771.0	2047.9	2196.5	2131.3	1886.7	1587.4	1364.6
42.5°	1133.0	1193.3	1298.0	1468.0	1726.2	1986.8	2077.1	1935.1	1652.9	1369.9	1167.2
45°	1035.2	1091.9	1197.0	1371.5	1634.4	1869.9	1858.0	1611.2	1328.8	1101.1	932.8
47.5°	942.4	992.0	1090.7	1268.8	1526.6	1694.7	1583.2	1320.7	1081.1	898.4	778.4
50°	876.7	925.9	1024.0	1199.9	1440.3	1562.9	1403.8	1150.8	931.5	780.1	684.7
52.5°	814.0	861.9	951.6	1123.0	1336.0	1409.3	1238.4	1003.9	821.0	690.4	608.5
55°	726.1	762.5	843.1	1007.1	1166.3	1183.0	1010.0	813.7	663.0	571.9	515.9
57.5°	636.5	667.9	747.5	878.2	989.7	981.1	816.9	647.2	545.7	478.0	437.3
60°	578.2	609.0	679.1	791.3	875.4	846.0	695.3	558.6	471.7	422.0	389.7
62.5°	523.8	548.0	613.5	695.4	755.9	722.6	594.3	481.2	412.2	370.3	344.8
65°	445.1	464.7	517.2	560.0	593.6	561.4	454.9	376.4	326.6	297.2	279.6
67.5°	370.1	382.6	415.9	431.3	455.0	419.6	342.1	289.4	261.2	236.3	224.2
70°	323.1	332.2	349.7	362.3	368.6	332.2	274.7	236.2	212.3	194.8	187.2
72.5°	276.0	284.0	287.5	297.8	294.6	260.5	220.9	190.2	173.1	161.2	151.2
75°	211.0	214.5	211.0	206.8	197.6	173.8	146.5	131.1	118.4	112.8	109.3
77.5°	153.7	152.7	147.8	141.3	125.7	110.8	96.0	90.9	85.3	82.4	81.1
80°	118.4	115.7	111.5	100.9	87.6	77.1	73.6	70.1	67.9	64.5	63.8
82.5°	88.2	86.5	79.5	70.6	61.3	56.4	53.4	52.2	50.0	48.2	48.1
85°	47.0	44.9	37.2	32.3	30.9	29.4	28.7	28.7	25.9	25.2	25.2
87.5°	15.9	13.0	13.0	11.9	12.4	11.9	13.2	12.8	12.8	13.6	12.7
90°	3.7	6.3	8.8	11.4	14.4	17.7	21.0	24.4	27.7	28.8	29.8
92.5°	29.7	31.5	33.3	35.0	36.8	38.7	40.6	42.5	44.4	45.2	46.0
95°	70.0	71.9	73.7	75.4	77.4	79.5	81.5	83.6	85.6	86.6	87.7
97.5°	122.5	123.9	125.2	126.5	128.0	129.5	130.9	132.4	133.9	135.1	136.3
100°	158.8	160.3	161.9	163.5	164.9	166.1	167.5	168.7	170.0	170.8	171.6
102.5°	199.8	200.8	201.7	202.6	203.9	205.6	207.3	209.0	210.7	211.5	212.2
105°	260.7	261.3	261.7	262.3	263.7	266.0	268.3	270.6	273.0	273.0	273.0
107.5°	331.8	332.1	332.4	332.7	333.3	334.2	335.2	336.1	337.0	337.9	338.7
110°	376.4	376.9	377.4	377.9	378.4	379.0	379.5	380.0	380.5	381.6	382.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	422.4	422.8	423.0	423.4	423.6	423.7	423.7	423.9	424.0	425.3	426.4
115°	492.3	493.0	493.8	494.6	494.7	494.2	493.7	493.2	492.7	492.9	493.2
117.5°	561.9	562.4	562.9	563.5	563.4	562.7	562.0	561.3	560.7	560.6	560.6
120°	606.4	608.0	609.5	611.0	611.2	609.8	608.6	607.3	606.0	605.7	605.5
122.5°	651.3	652.5	653.6	654.7	655.0	654.2	653.6	652.9	652.3	651.6	650.9
125°	720.1	720.9	721.7	722.5	722.6	722.0	721.6	721.0	720.5	719.5	718.5
127.5°	784.9	786.5	788.1	789.8	790.3	789.8	789.2	788.6	788.1	786.6	785.2
130°	827.8	829.9	832.0	834.0	834.6	833.8	833.1	832.3	831.5	830.5	829.5
132.5°	870.4	872.4	874.5	876.6	877.3	876.7	876.2	875.6	875.0	873.8	872.5
135°	934.9	936.4	937.9	939.5	940.1	939.9	939.6	939.3	939.1	938.1	937.0
137.5°	994.7	996.0	997.3	998.6	999.6	1000.2	1000.9	1001.6	1002.3	1001.1	1000.1
140°	1036.3	1037.7	1038.9	1040.3	1041.0	1041.3	1041.5	1041.8	1042.1	1041.8	1041.5
142.5°	1074.3	1075.6	1076.9	1078.2	1079.1	1079.5	1080.0	1080.4	1080.9	1080.7	1080.4
145°	1132.7	1133.3	1133.8	1134.3	1135.0	1135.7	1136.5	1137.3	1138.0	1137.7	1137.5
147.5°	1185.0	1185.9	1186.9	1187.8	1188.6	1189.3	1190.0	1190.7	1191.4	1191.4	1191.4
150°	1220.7	1221.2	1221.6	1222.2	1222.7	1223.2	1223.7	1224.2	1224.8	1224.8	1224.8
152.5°	1250.4	1251.2	1251.9	1252.6	1253.1	1253.5	1253.7	1254.1	1254.4	1254.8	1255.2
155°	1296.5	1296.5	1296.5	1296.5	1296.6	1296.8	1297.1	1297.4	1297.6	1298.7	1299.7
157.5°	1336.0	1335.6	1335.3	1335.0	1335.0	1335.2	1335.3	1335.6	1335.8	1336.9	1337.9
160°	1360.8	1360.2	1359.7	1359.1	1358.9	1358.9	1358.9	1358.9	1358.9	1360.2	1361.5
162.5°	1382.7	1382.0	1381.3	1380.5	1380.3	1380.5	1380.7	1380.9	1381.1	1382.4	1383.7
165°	1411.3	1410.6	1409.8	1409.1	1408.6	1408.6	1408.6	1408.6	1408.6	1410.2	1411.8
167.5°	1434.0	1433.0	1431.9	1430.9	1430.5	1430.7	1430.9	1431.1	1431.3	1432.9	1434.5
170°	1447.0	1445.9	1444.9	1443.9	1443.3	1443.3	1443.3	1443.3	1443.3	1445.1	1447.0
172.5°	1457.1	1456.1	1455.1	1454.0	1453.5	1453.5	1453.5	1453.5	1453.5	1455.1	1456.7
175°	1467.8	1466.8	1465.7	1464.6	1464.2	1464.2	1464.2	1464.2	1464.2	1465.7	1467.2
177.5°	1472.4	1471.5	1470.7	1469.9	1469.5	1469.5	1469.5	1469.5	1469.5	1470.7	1471.9
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1726.9	1726.9	1729.1	1737.6	1738.7	1746.0	1743.7
5°	1897.9	1911.2	1916.1	1937.2	1949.8	1955.4	1944.2
7.5°	2107.0	2144.7	2162.4	2184.4	2204.0	2209.8	2194.5
10°	2259.6	2298.8	2331.7	2352.1	2371.0	2383.6	2399.8
12.5°	2407.0	2455.2	2486.5	2515.2	2534.7	2550.7	2553.3
15°	2567.2	2640.1	2695.5	2736.1	2756.5	2767.0	2762.8
17.5°	2728.8	2796.4	2835.8	2877.3	2905.5	2906.9	2907.7
20°	2820.2	2886.1	2931.7	2962.5	2994.1	2992.7	2999.6
22.5°	2881.4	2933.2	2968.1	2990.5	3001.3	2996.1	2997.4
25°	2909.9	2925.3	2919.1	2883.3	2874.3	2841.3	2846.9
27.5°	2762.5	2689.6	2614.2	2517.2	2440.7	2379.5	2382.7
30°	2562.3	2433.4	2286.2	2162.8	2052.1	2021.2	1955.4
32.5°	2282.5	2089.1	1916.7	1801.8	1706.7	1681.0	1623.4
35°	1808.2	1620.4	1443.1	1336.5	1294.5	1235.6	1234.9
37.5°	1405.5	1240.1	1146.3	1066.4	1024.5	988.9	985.4
40°	1182.3	1053.4	982.6	925.1	883.8	857.1	850.9
42.5°	1026.4	922.2	855.9	820.3	788.5	774.7	764.5
45°	838.2	768.1	721.8	689.6	674.9	664.4	658.8
47.5°	701.2	654.2	622.7	601.2	589.2	578.2	581.1
50°	626.6	588.0	564.9	544.6	535.5	527.7	528.4
52.5°	566.6	532.0	513.3	498.6	487.2	481.8	479.1
55°	480.8	459.1	440.1	429.6	423.3	415.6	413.5
57.5°	410.1	393.3	377.9	366.0	364.4	357.0	358.0
60°	363.0	349.0	336.4	330.1	325.2	318.9	321.0
62.5°	324.3	312.5	301.1	295.9	291.0	286.3	287.3
65°	265.6	254.4	247.4	244.6	242.5	240.4	238.3
67.5°	211.7	204.8	200.5	194.4	190.1	189.4	187.3
70°	178.0	168.9	161.2	153.5	151.4	150.7	151.4
72.5°	142.7	137.0	134.8	131.1	130.6	128.9	130.1
75°	107.3	105.1	103.7	100.9	100.9	100.9	100.9
77.5°	79.1	77.8	77.0	76.4	75.7	74.7	74.5
80°	61.7	61.0	59.6	59.6	58.9	59.6	58.9
82.5°	46.5	46.4	45.0	45.0	44.3	43.9	44.3
85°	23.8	23.1	24.5	23.1	23.8	22.5	23.8
87.5°	12.9	13.1	12.7	12.8	12.3	13.6	12.6
90°	30.9	31.8	32.6	33.2	33.7	34.2	34.7
92.5°	46.9	47.7	48.0	47.6	47.3	47.0	46.7
95°	88.6	89.7	90.2	90.2	90.2	90.2	90.2
97.5°	137.5	138.7	139.2	139.1	139.0	138.9	138.8
100°	172.3	173.1	173.7	174.2	174.8	175.3	175.8
102.5°	213.0	213.8	214.1	214.0	213.9	213.8	213.7
105°	273.0	273.0	273.2	273.8	274.2	274.7	275.3
107.5°	339.5	340.3	340.5	340.3	339.9	339.7	339.3
110°	383.6	384.6	384.9	384.3	383.9	383.3	382.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	427.7	428.9	429.4	429.4	429.3	429.2	429.1
115°	493.5	493.7	493.7	493.5	493.2	492.9	492.7
117.5°	560.5	560.4	560.1	559.4	558.7	557.9	557.2
120°	605.3	605.0	604.6	604.1	603.6	603.1	602.5
122.5°	650.2	649.6	648.9	648.2	647.5	646.8	646.0
125°	717.5	716.4	715.4	714.3	713.3	712.3	711.2
127.5°	783.7	782.3	781.0	779.8	778.6	777.5	776.2
130°	828.5	827.4	826.0	824.2	822.4	820.6	818.9
132.5°	871.3	870.1	868.8	867.4	866.0	864.6	863.3
135°	936.0	935.0	934.2	933.7	933.2	932.6	932.2
137.5°	999.0	997.9	996.9	996.0	995.0	994.0	993.0
140°	1041.3	1041.0	1040.0	1038.2	1036.3	1034.6	1032.8
142.5°	1080.1	1079.9	1079.1	1077.6	1076.3	1074.9	1073.5
145°	1137.3	1137.0	1136.4	1135.3	1134.3	1133.3	1132.2
147.5°	1191.4	1191.4	1190.7	1189.2	1187.6	1186.1	1184.5
150°	1224.8	1224.8	1224.0	1222.4	1220.9	1219.3	1217.8
152.5°	1255.6	1256.0	1255.5	1254.2	1252.9	1251.5	1250.2
155°	1300.7	1301.7	1301.4	1299.6	1297.8	1295.9	1294.1
157.5°	1339.0	1340.2	1339.9	1338.5	1337.0	1335.6	1334.2
160°	1362.8	1364.1	1364.2	1363.2	1362.2	1361.1	1360.0
162.5°	1385.0	1386.3	1386.1	1384.5	1382.8	1381.2	1379.5
165°	1413.3	1414.8	1414.7	1412.9	1411.1	1409.3	1407.5
167.5°	1436.1	1437.7	1437.7	1436.1	1434.5	1432.9	1431.3
170°	1448.8	1450.5	1450.5	1448.8	1447.0	1445.1	1443.3
172.5°	1458.3	1459.9	1459.8	1458.0	1456.2	1454.4	1452.6
175°	1468.8	1470.3	1470.2	1468.4	1466.6	1464.8	1463.0
177.5°	1473.2	1474.4	1474.4	1472.8	1471.4	1470.0	1468.6
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3

(END OF REPORT)