

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: P333728-840

Luminaire Tested: **S125RDIW-S1270D1050U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333728-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIW-S1270D1050U840-4F0-1E-UDD-A
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1050 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9202.1 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

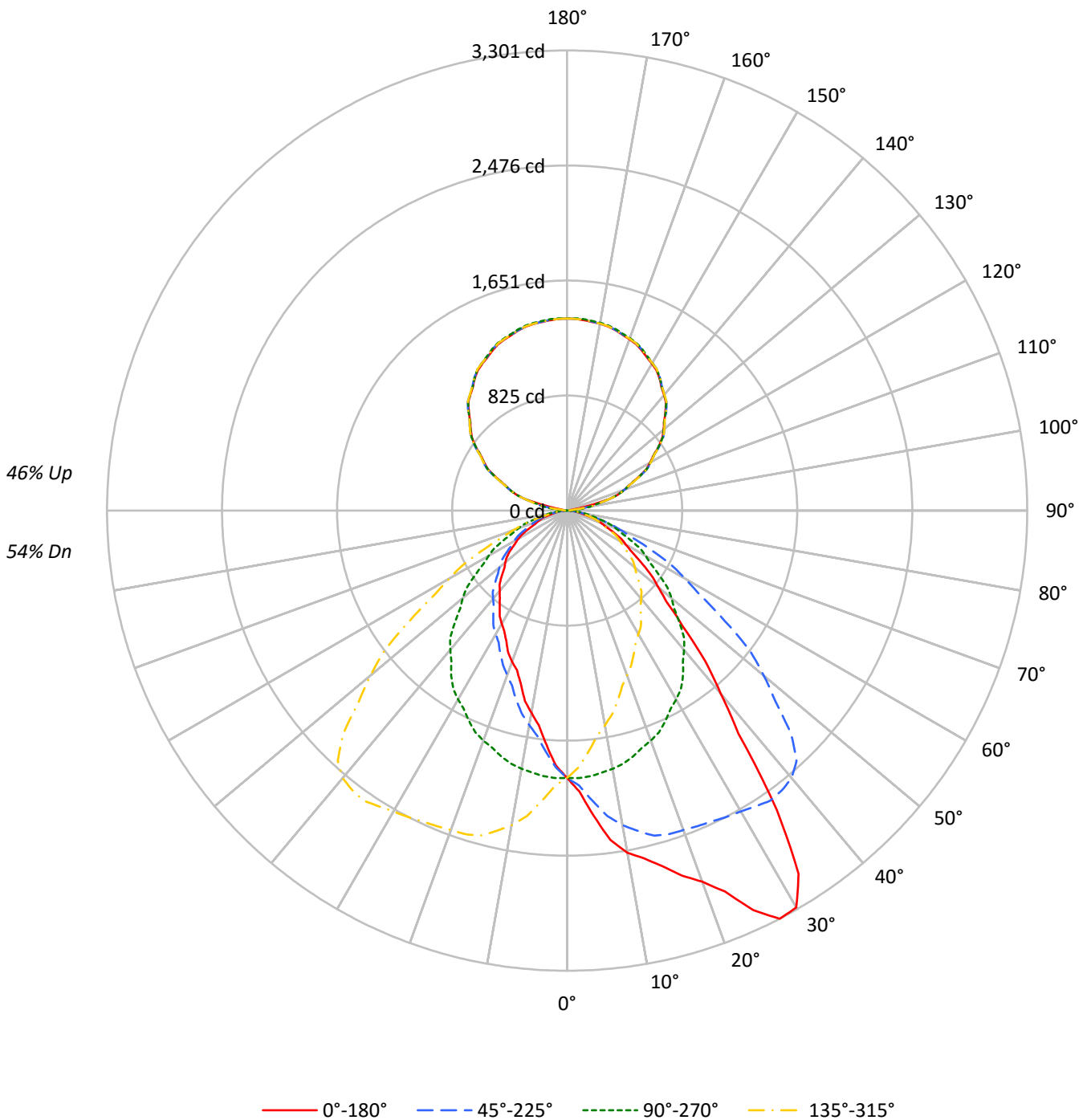
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	91	83	78	72	84	78	73	68	67	63	60	57	54	52	48	46	44	40
3	83	74	67	61	77	69	62	57	59	55	51	51	47	44	43	40	38	34
4	76	65	58	52	70	61	54	49	53	48	43	45	41	38	38	35	33	29
5	70	58	50	45	65	55	48	42	48	42	38	41	37	33	35	31	29	26
6	64	53	45	39	60	49	42	37	43	37	33	37	33	29	31	28	26	23
7	60	48	40	34	55	45	38	32	39	33	29	34	29	26	29	25	23	20
8	55	43	36	30	51	41	34	29	36	30	26	31	26	23	26	23	20	18
9	52	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12385	12385	12385	12385
5°	14249	12401	10952	12401
10°	16344	12338	9664	12338
15°	17653	12211	8590	12211
20°	19467	12065	7932	12065
25°	22528	11870	7360	11870
30°	24515	11665	6986	11665
35°	20679	11427	6641	11427
40°	14441	10997	6345	10997
45°	10714	10418	6054	10418
50°	8542	9815	5805	9815
55°	7250	9067	5584	9067
60°	6263	8400	5227	8400
65°	5582	7674	4499	7674
70°	4904	7030	4101	7030
75°	4245	6089	3850	6089
80°	3217	5121	3217	5121
85°	2690	4024	3031	4024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	2.0
10°-20°	538.9	5.9
20°-30°	854.5	9.3
30°-40°	1030.4	11.2
40°-50°	920.2	10.0
50°-60°	705.7	7.7
60°-70°	458.6	5.0
70°-80°	223.0	2.4
80°-90°	56.1	0.6
90°-100°	50.1	0.5
100°-110°	308.6	3.4
110°-120°	559.7	6.1
120°-130°	718.2	7.8
130°-140°	772.5	8.4
140°-150°	725.1	7.9
150°-160°	586.6	6.4
160°-170°	379.4	4.1
170°-180°	130.8	1.4
0°-30°	1577.3	17.1
0°-40°	2607.7	28.3
0°-60°	4233.5	46.0
0°-90°	4971.1	54.0
90°-120°	918.3	10.0
90°-150°	3134.2	34.1
90°-180°	4231.0	46.0
0°-180°	9202.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1918	1918	1918	1918	1918	
5°	2198	1913	1689	1913	2198	220
15°	2640	1826	1285	1826	2640	757
25°	3161	1666	1033	1666	3161	1452
35°	2623	1449	842	1449	2623	1584
45°	1173	1141	663	1141	1173	936
55°	644	805	496	805	644	584
65°	365	502	294	502	365	363
75°	170	244	154	244	170	181
85°	36	54	41	54	36	42
90°	24	1	24	1	24	12
95°	21	58	21	58	21	18
105°	303	300	303	300	303	274
115°	560	564	560	564	560	556
125°	802	802	802	802	802	713
135°	996	1000	996	1000	996	769
145°	1156	1159	1156	1159	1156	722
155°	1268	1277	1268	1277	1268	584
165°	1340	1347	1340	1347	1340	378
175°	1372	1378	1372	1378	1372	131
180°	1378	1378	1378	1378	1378	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	2017.1	2015.9	2018.4	2011.4	2012.1	2001.4	2001.4	1993.2	1982.5	1974.3	1970.5
5°	2197.9	2199.5	2196.3	2184.4	2176.7	2164.8	2151.4	2127.8	2108.1	2089.2	2074.3
7.5°	2384.0	2385.1	2374.7	2371.1	2351.2	2336.7	2306.9	2274.8	2246.3	2210.2	2182.4
10°	2492.2	2491.5	2480.4	2471.8	2454.5	2432.5	2403.4	2365.5	2330.2	2290.8	2253.0
12.5°	2555.3	2553.2	2549.7	2539.2	2523.1	2503.7	2478.9	2441.8	2398.1	2355.0	2310.9
15°	2640.3	2634.7	2624.5	2611.1	2588.3	2565.5	2537.9	2504.9	2463.2	2414.4	2373.4
17.5°	2745.4	2745.6	2729.9	2711.3	2680.3	2640.0	2597.5	2544.1	2487.4	2433.7	2390.1
20°	2832.4	2829.9	2814.3	2778.0	2742.6	2692.2	2643.4	2578.1	2508.8	2438.7	2384.4
22.5°	2957.1	2950.9	2934.6	2887.0	2832.1	2767.1	2692.5	2612.7	2529.0	2449.4	2378.1
25°	3161.4	3156.6	3124.4	3069.3	2992.1	2892.2	2794.6	2685.1	2564.8	2460.0	2373.4
27.5°	3301.2	3296.0	3272.1	3226.3	3155.1	3049.9	2917.8	2771.6	2621.2	2477.2	2352.3
30°	3287.3	3299.1	3296.0	3274.8	3221.3	3126.7	3004.8	2840.2	2661.5	2492.2	2343.5
32.5°	3089.6	3100.2	3127.9	3169.6	3172.7	3134.9	3043.8	2891.8	2706.8	2514.4	2336.5
35°	2622.9	2637.2	2690.7	2774.9	2885.1	2977.2	2996.1	2914.3	2748.1	2541.1	2326.2
37.5°	2016.5	2094.0	2139.0	2227.7	2394.2	2563.6	2726.5	2786.5	2715.8	2530.1	2309.4
40°	1712.9	1731.8	1812.1	1912.1	2052.2	2228.6	2460.8	2628.5	2633.9	2504.9	2282.9
42.5°	1466.1	1490.1	1545.1	1625.0	1744.9	1921.3	2161.0	2382.3	2484.8	2435.6	2248.3
45°	1173.0	1191.0	1231.2	1292.6	1384.7	1530.3	1736.6	1992.4	2195.5	2275.0	2155.4
47.5°	963.5	973.3	1008.2	1055.0	1123.2	1229.3	1389.0	1611.0	1854.6	2025.5	2008.6
50°	850.2	861.2	888.0	923.4	980.9	1070.6	1198.1	1383.1	1634.3	1842.8	1884.6
52.5°	762.0	771.1	787.8	821.3	868.8	937.8	1040.7	1208.0	1434.0	1655.8	1752.3
55°	643.9	650.3	663.6	682.5	720.3	769.9	858.8	974.5	1157.2	1380.8	1522.5
57.5°	546.6	549.8	558.3	575.7	601.9	638.1	702.4	800.4	931.4	1132.8	1289.1
60°	484.9	488.1	499.1	510.9	531.4	564.4	614.8	683.3	809.2	975.3	1133.6
62.5°	435.8	437.7	442.4	454.2	472.2	497.7	537.3	593.2	693.4	839.3	988.8
65°	365.3	366.1	367.6	377.1	388.1	407.0	432.9	472.3	547.9	658.1	790.3
67.5°	297.6	298.6	304.2	307.5	319.0	328.9	344.2	374.3	427.5	501.8	604.6
70°	259.7	259.0	264.5	268.4	272.4	284.2	294.4	318.8	351.8	408.6	494.3
72.5°	224.5	222.5	224.8	226.2	231.5	239.4	249.7	264.7	290.1	329.2	394.9
75°	170.1	170.9	170.9	172.4	176.3	179.5	182.6	190.5	204.7	230.7	266.1
77.5°	119.4	118.1	121.4	121.9	124.2	127.6	130.4	133.5	139.4	150.1	168.3
80°	86.5	86.5	87.4	89.8	89.0	90.5	94.4	97.7	104.7	111.0	117.2
82.5°	66.4	65.8	66.6	67.1	67.0	68.5	69.9	70.5	73.2	76.3	80.8
85°	36.3	36.3	37.0	37.0	37.8	37.8	38.6	38.6	38.6	39.4	40.2
87.5°	18.8	18.0	17.3	17.1	17.6	18.7	17.8	17.0	16.8	16.5	16.8
90°	24.5	23.8	23.1	22.5	21.8	20.9	19.8	18.6	17.5	16.4	14.7
92.5°	22.9	22.5	22.2	21.9	21.6	20.9	19.8	18.6	17.5	16.4	14.9
95°	21.4	21.4	21.4	21.4	21.4	20.9	19.8	18.6	17.5	16.4	24.9
97.5°	21.4	21.4	21.4	21.4	21.4	24.6	31.0	37.5	43.8	50.3	67.4
100°	21.4	22.3	23.2	24.1	25.0	42.4	76.2	110.1	143.9	177.7	176.8
102.5°	128.5	143.9	159.4	174.8	190.3	201.2	207.5	213.9	220.4	226.7	226.2
105°	303.4	303.6	303.8	304.1	304.3	304.4	304.4	304.4	304.4	304.4	304.4
107.5°	382.4	383.0	383.7	384.5	385.2	385.5	385.4	385.4	385.3	385.3	384.8
110°	437.2	436.9	436.7	436.5	436.3	436.5	437.2	437.8	438.5	439.2	438.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	486.1	486.5	486.8	487.2	487.5	488.1	488.9	489.8	490.6	491.5	491.2
115°	559.7	561.1	562.4	563.8	565.1	566.2	567.1	568.0	569.0	569.9	569.7
117.5°	638.1	638.7	639.3	640.0	640.5	641.4	642.6	643.8	644.9	646.1	645.2
120°	686.3	687.5	688.6	689.7	690.8	691.7	692.2	692.6	693.1	693.5	692.8
122.5°	732.2	733.5	734.8	736.1	737.4	738.2	738.7	739.1	739.6	740.0	739.7
125°	801.7	802.4	803.1	803.9	804.5	805.3	806.2	807.1	808.0	808.9	808.9
127.5°	860.4	862.0	863.7	865.5	867.1	868.2	868.7	869.2	869.7	870.2	870.3
130°	902.9	904.0	905.1	906.3	907.4	908.3	909.0	909.7	910.4	911.0	910.8
132.5°	942.1	943.2	944.3	945.5	946.6	947.3	947.4	947.6	947.7	947.9	948.3
135°	995.8	997.1	998.6	999.9	1001.3	1002.2	1002.6	1003.1	1003.5	1004.0	1004.4
137.5°	1049.8	1051.0	1052.1	1053.3	1054.5	1055.0	1054.9	1054.8	1054.7	1054.6	1055.0
140°	1081.6	1083.0	1084.3	1085.7	1087.0	1087.5	1087.0	1086.6	1086.1	1085.7	1085.9
142.5°	1111.9	1113.2	1114.6	1115.9	1117.3	1117.9	1117.8	1117.7	1117.6	1117.5	1117.2
145°	1156.2	1157.5	1158.9	1160.2	1161.6	1162.2	1162.0	1161.7	1161.5	1161.2	1161.2
147.5°	1192.8	1194.4	1196.0	1197.6	1199.3	1199.9	1199.7	1199.4	1199.1	1198.8	1198.6
150°	1216.4	1218.2	1220.0	1221.8	1223.7	1224.4	1224.0	1223.5	1223.0	1222.5	1222.1
152.5°	1238.5	1240.1	1241.7	1243.3	1245.1	1245.6	1245.2	1244.7	1244.3	1243.7	1243.3
155°	1267.5	1269.3	1271.1	1272.9	1274.8	1275.4	1274.7	1273.9	1273.2	1272.6	1272.1
157.5°	1291.8	1293.6	1295.5	1297.3	1299.1	1299.6	1298.9	1298.2	1297.5	1296.7	1296.7
160°	1307.4	1309.2	1311.0	1312.8	1314.5	1315.0	1314.1	1313.2	1312.3	1311.4	1311.2
162.5°	1321.2	1323.2	1325.2	1327.2	1329.2	1329.6	1328.3	1327.1	1325.8	1324.4	1324.2
165°	1340.0	1341.8	1343.6	1345.4	1347.3	1347.5	1346.2	1344.7	1343.4	1342.0	1341.8
167.5°	1353.1	1355.1	1357.2	1359.2	1361.3	1361.5	1359.8	1358.2	1356.6	1354.9	1354.7
170°	1360.4	1362.5	1364.5	1366.5	1368.6	1368.8	1367.0	1365.1	1363.3	1361.5	1361.2
172.5°	1365.3	1367.4	1369.4	1371.5	1373.5	1373.7	1372.1	1370.5	1368.8	1367.2	1366.8
175°	1371.7	1373.7	1375.7	1377.8	1379.9	1380.0	1378.2	1376.3	1374.5	1372.7	1372.5
177.5°	1375.3	1376.8	1378.3	1379.7	1381.2	1381.3	1380.0	1378.7	1377.5	1376.1	1375.9
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1970.5	1966.1	1957.9	1950.4	1941.0	1932.8	1927.0	1920.2	1911.4	1900.7	1891.8
5°	2057.7	2040.4	2017.6	1997.9	1972.8	1953.1	1932.6	1912.9	1893.2	1868.0	1846.0
7.5°	2154.4	2118.7	2083.9	2040.1	2000.4	1965.0	1931.0	1896.5	1862.8	1827.0	1792.6
10°	2213.6	2170.3	2122.3	2067.2	2016.8	1968.8	1924.7	1881.4	1835.7	1795.6	1752.3
12.5°	2269.1	2213.1	2158.2	2088.6	2028.1	1969.4	1913.4	1859.4	1810.6	1758.5	1712.0
15°	2319.1	2264.0	2202.6	2117.6	2033.4	1962.5	1896.3	1826.3	1765.6	1707.5	1655.5
17.5°	2338.4	2280.7	2209.4	2127.7	2035.6	1946.4	1861.3	1784.4	1713.1	1645.3	1586.8
20°	2330.9	2275.0	2201.8	2123.8	2025.5	1932.6	1840.5	1755.4	1676.0	1604.3	1542.2
22.5°	2312.7	2254.8	2184.1	2101.8	2008.4	1910.0	1811.5	1720.8	1637.5	1563.4	1495.5
25°	2285.2	2206.6	2134.1	2053.8	1964.9	1867.2	1765.6	1665.7	1576.8	1501.2	1427.2
27.5°	2256.7	2158.5	2066.4	1986.6	1892.6	1805.5	1707.6	1605.1	1511.6	1434.6	1358.7
30°	2230.9	2120.7	2019.1	1928.6	1839.7	1757.1	1664.2	1564.2	1468.1	1388.7	1311.5
32.5°	2198.8	2081.6	1970.0	1865.6	1779.9	1697.9	1613.8	1518.2	1424.7	1342.6	1264.3
35°	2158.5	2008.9	1887.7	1776.8	1681.4	1601.9	1526.4	1449.3	1355.5	1270.5	1194.2
37.5°	2105.6	1935.9	1795.6	1674.7	1574.3	1494.4	1434.7	1364.2	1278.7	1197.3	1126.5
40°	2073.5	1883.0	1729.5	1609.8	1504.3	1420.1	1364.2	1304.4	1226.5	1150.1	1079.2
42.5°	2030.6	1834.5	1662.7	1538.0	1431.9	1350.8	1294.3	1242.0	1176.7	1104.8	1028.9
45°	1946.7	1740.5	1560.2	1426.4	1319.4	1239.8	1187.1	1140.6	1091.1	1024.9	958.8
47.5°	1837.4	1642.4	1453.8	1307.7	1202.9	1129.0	1077.8	1041.2	1005.7	949.5	885.2
50°	1750.0	1561.9	1377.6	1235.9	1124.1	1054.1	1006.0	976.9	944.6	893.4	839.9
52.5°	1646.7	1478.6	1298.3	1153.4	1047.9	982.3	936.1	907.1	880.4	838.7	787.7
55°	1483.9	1336.7	1171.3	1039.9	943.1	877.0	832.8	805.3	789.6	754.2	714.0
57.5°	1296.1	1190.5	1044.8	918.1	832.4	767.1	734.8	711.3	693.6	668.5	640.2
60°	1165.1	1091.1	960.4	839.9	761.2	699.0	669.9	650.3	633.7	612.5	590.4
62.5°	1032.2	978.4	864.6	761.2	688.8	636.7	609.5	591.7	572.6	558.3	536.8
65°	854.1	806.1	727.4	646.3	579.4	537.7	518.0	502.2	490.4	474.6	459.7
67.5°	664.4	644.9	590.6	534.6	486.7	449.5	432.5	421.5	407.3	397.9	387.6
70°	547.9	538.5	499.9	462.9	418.0	392.8	377.1	372.3	355.1	345.6	338.5
72.5°	444.6	440.2	418.0	392.3	360.7	338.6	324.2	318.8	307.8	300.2	295.7
75°	304.7	306.2	302.3	285.8	274.0	259.7	247.2	244.0	236.2	229.8	225.9
77.5°	192.7	200.8	201.1	200.3	195.5	186.9	181.7	179.4	171.6	169.3	168.3
80°	132.3	140.9	148.8	147.9	146.4	144.1	140.2	137.7	133.8	131.5	129.9
82.5°	88.2	96.2	102.8	107.0	106.7	104.4	101.7	100.6	99.8	98.1	97.8
85°	41.7	43.3	45.6	51.2	55.1	55.8	55.1	54.3	51.9	52.7	53.5
87.5°	17.2	16.8	17.1	16.8	15.8	18.6	20.1	20.4	19.5	18.6	17.7
90°	13.1	11.6	10.0	8.3	6.5	4.6	2.8	1.0	2.8	4.6	6.5
92.5°	13.5	12.1	10.7	10.6	11.9	13.2	14.4	15.8	14.4	13.2	11.9
95°	33.6	42.2	50.8	55.5	56.1	56.9	57.6	58.2	57.6	56.9	56.1
97.5°	84.4	101.5	118.6	126.4	125.2	124.0	122.8	121.6	122.8	124.0	125.2
100°	175.9	175.0	174.1	173.3	172.6	171.9	171.3	170.6	171.3	171.9	172.6
102.5°	225.6	225.1	224.6	223.9	223.0	222.2	221.3	220.5	221.3	222.2	223.0
105°	304.4	304.4	304.4	303.9	303.0	302.1	301.1	300.2	301.1	302.1	303.0
107.5°	384.4	383.8	383.4	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2
110°	438.3	437.8	437.4	437.2	437.2	437.2	437.2	437.2	437.2	437.2	437.2



TEST NUMBER: P333728-840

CATALOG NUMBER: S125RDIW-S1270D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	490.9	490.7	490.4	490.0	489.4	488.9	488.4	487.8	488.4	488.9	489.4
115°	569.5	569.3	569.0	568.4	567.1	566.0	564.9	563.8	564.9	566.0	567.1
117.5°	644.4	643.5	642.7	642.3	642.3	642.4	642.4	642.5	642.4	642.4	642.3
120°	692.2	691.5	690.7	690.5	690.7	690.9	691.3	691.5	691.3	690.9	690.7
122.5°	739.4	739.1	738.8	738.2	737.3	736.5	735.6	734.8	735.6	736.5	737.3
125°	808.9	808.9	808.9	808.1	806.5	805.0	803.3	801.7	803.3	805.0	806.5
127.5°	870.5	870.6	870.7	870.2	869.1	868.0	866.9	865.7	866.9	868.0	869.1
130°	910.6	910.4	910.1	909.5	908.3	907.2	906.1	904.9	906.1	907.2	908.3
132.5°	948.8	949.3	949.8	949.4	948.1	946.7	945.4	944.1	945.4	946.7	948.1
135°	1004.9	1005.3	1005.8	1005.3	1004.0	1002.6	1001.3	999.9	1001.3	1002.6	1004.0
137.5°	1055.5	1055.9	1056.3	1055.9	1054.7	1053.5	1052.4	1051.2	1052.4	1053.5	1054.7
140°	1086.1	1086.4	1086.6	1086.5	1086.0	1085.6	1085.1	1084.7	1085.1	1085.6	1086.0
142.5°	1116.9	1116.6	1116.3	1116.0	1115.7	1115.5	1115.2	1114.9	1115.2	1115.5	1115.7
145°	1161.2	1161.2	1161.2	1161.0	1160.6	1160.1	1159.7	1159.2	1159.7	1160.1	1160.6
147.5°	1198.3	1198.0	1197.8	1197.7	1197.8	1197.9	1198.0	1198.0	1198.0	1197.9	1197.8
150°	1221.6	1221.2	1220.7	1220.7	1221.2	1221.6	1222.1	1222.5	1222.1	1221.6	1221.2
152.5°	1242.9	1242.4	1242.0	1242.2	1243.2	1244.3	1245.3	1246.3	1245.3	1244.3	1243.2
155°	1271.7	1271.2	1270.8	1271.2	1272.6	1273.9	1275.4	1276.7	1275.4	1273.9	1272.6
157.5°	1296.6	1296.6	1296.6	1296.9	1297.8	1298.6	1299.4	1300.2	1299.4	1298.6	1297.8
160°	1311.0	1310.7	1310.5	1311.1	1312.4	1313.8	1315.1	1316.6	1315.1	1313.8	1312.4
162.5°	1324.0	1323.8	1323.5	1324.1	1325.5	1326.9	1328.3	1329.6	1328.3	1326.9	1325.5
165°	1341.6	1341.4	1341.1	1341.7	1343.1	1344.4	1345.8	1347.2	1345.8	1344.4	1343.1
167.5°	1354.4	1354.2	1354.0	1354.6	1356.0	1357.5	1358.9	1360.2	1358.9	1357.5	1356.0
170°	1361.0	1360.8	1360.6	1361.2	1362.8	1364.4	1366.0	1367.6	1366.0	1364.4	1362.8
172.5°	1366.3	1365.9	1365.5	1366.1	1367.8	1369.3	1370.9	1372.5	1370.9	1369.3	1367.8
175°	1372.2	1372.0	1371.8	1372.3	1373.7	1375.0	1376.4	1377.8	1376.4	1375.0	1373.7
177.5°	1375.8	1375.6	1375.4	1375.9	1377.0	1378.1	1379.2	1380.3	1379.2	1378.1	1377.0
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1885.5	1876.7	1870.4	1857.7	1849.0	1845.2	1838.3	1836.3	1843.3	1838.3	1837.7
5°	1829.5	1806.6	1788.6	1770.4	1750.7	1738.2	1719.3	1716.1	1711.4	1704.2	1702.7
7.5°	1762.2	1732.5	1709.2	1679.3	1653.3	1632.3	1608.7	1597.5	1591.4	1582.3	1570.0
10°	1716.9	1681.4	1650.0	1620.0	1587.8	1561.9	1538.2	1520.0	1508.2	1497.2	1492.6
12.5°	1672.1	1636.1	1595.8	1559.6	1523.6	1494.4	1468.2	1456.5	1443.4	1430.5	1419.5
15°	1602.8	1554.7	1510.7	1468.9	1438.2	1406.7	1381.5	1364.2	1344.5	1339.1	1317.8
17.5°	1529.0	1482.0	1430.4	1386.4	1350.8	1316.2	1288.5	1268.8	1254.1	1233.8	1224.0
20°	1483.1	1427.2	1376.8	1336.7	1297.3	1256.4	1228.0	1211.5	1197.3	1180.8	1173.0
22.5°	1434.0	1379.4	1327.7	1280.6	1240.6	1200.3	1180.1	1163.1	1146.9	1131.7	1121.3
25°	1361.9	1306.8	1252.4	1203.7	1162.0	1132.8	1109.1	1089.4	1080.9	1065.9	1054.8
27.5°	1290.5	1231.9	1175.6	1126.9	1094.2	1065.4	1046.0	1030.5	1014.8	1001.8	992.2
30°	1244.6	1184.8	1123.4	1084.8	1050.2	1022.6	1001.3	986.3	974.5	962.7	955.6
32.5°	1198.6	1136.9	1082.4	1040.7	1007.9	984.1	962.3	948.0	935.5	922.4	914.1
35°	1124.9	1062.0	1017.8	976.9	944.6	922.6	907.7	887.2	877.0	867.5	858.8
37.5°	1056.4	997.8	950.2	914.2	886.3	864.3	845.0	833.9	821.3	812.8	805.7
40°	1006.0	952.5	909.2	871.4	851.0	826.6	808.5	794.3	784.9	773.9	766.0
42.5°	960.7	911.0	868.9	835.0	809.4	788.8	771.3	757.1	745.2	737.3	730.6
45°	896.7	847.1	806.1	774.6	751.0	731.3	713.2	706.1	690.3	681.0	677.8
47.5°	830.3	786.0	746.4	717.4	693.2	674.6	657.6	643.2	634.5	625.2	620.2
50°	785.7	743.2	706.1	677.8	654.2	633.7	617.9	608.5	596.7	588.0	581.8
52.5°	740.9	701.6	664.6	637.4	617.0	596.5	579.0	569.5	558.3	552.8	548.4
55°	677.0	635.3	603.8	577.0	555.7	536.8	520.4	510.9	503.8	498.3	496.8
57.5°	604.6	571.5	542.2	518.2	496.0	478.3	463.8	454.8	448.6	447.8	443.0
60°	557.3	527.5	500.7	474.6	455.8	439.3	426.7	416.5	410.1	409.3	407.8
62.5°	510.1	481.4	456.6	433.7	416.8	400.8	388.9	377.4	373.7	369.7	366.2
65°	440.0	414.0	393.6	375.5	357.4	344.0	332.2	325.1	316.5	311.7	303.1
67.5°	371.2	351.1	331.4	316.2	301.9	289.2	279.4	268.9	263.1	259.3	253.0
70°	325.9	310.1	290.4	274.0	263.0	252.7	244.8	233.0	229.0	225.9	222.8
72.5°	283.1	269.2	252.7	239.3	228.3	218.6	209.5	204.0	200.2	196.9	195.1
75°	222.8	209.4	195.2	185.8	177.9	170.1	165.3	161.4	159.8	159.1	155.8
77.5°	163.6	156.5	145.1	137.6	132.4	129.3	125.0	123.0	122.8	119.4	118.3
80°	125.1	121.2	111.8	108.7	104.7	101.6	99.2	95.2	91.3	89.8	87.4
82.5°	93.0	89.1	85.3	80.3	77.0	75.1	72.7	71.3	71.8	69.6	68.5
85°	49.6	45.6	44.1	43.3	41.7	43.3	42.5	41.7	40.9	40.2	40.9
87.5°	17.4	17.8	17.5	19.0	17.5	18.4	18.6	18.2	18.5	18.7	18.2
90°	8.3	10.0	11.6	13.1	14.7	16.4	17.5	18.6	19.8	20.9	21.8
92.5°	10.6	10.7	12.1	13.5	14.9	16.4	17.5	18.6	19.8	20.9	21.6
95°	55.5	50.8	42.2	33.6	24.9	16.4	17.5	18.6	19.8	20.9	21.4
97.5°	126.4	118.6	101.5	84.4	67.4	50.3	43.8	37.5	31.0	24.6	21.4
100°	173.3	174.1	175.0	175.9	176.8	177.7	143.9	110.1	76.2	42.4	25.0
102.5°	223.9	224.6	225.1	225.6	226.2	226.7	220.4	213.9	207.5	201.2	190.3
105°	303.9	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.3
107.5°	383.2	383.4	383.8	384.4	384.8	385.3	385.3	385.4	385.4	385.5	385.2
110°	437.2	437.4	437.8	438.3	438.7	439.2	438.5	437.8	437.2	436.5	436.3



TEST NUMBER: P333728-840

CATALOG NUMBER: S125RDIW-S1270D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	490.0	490.4	490.7	490.9	491.2	491.5	490.6	489.8	488.9	488.1	487.5
115°	568.4	569.0	569.3	569.5	569.7	569.9	569.0	568.0	567.1	566.2	565.1
117.5°	642.3	642.7	643.5	644.4	645.2	646.1	644.9	643.8	642.6	641.4	640.5
120°	690.5	690.7	691.5	692.2	692.8	693.5	693.1	692.6	692.2	691.7	690.8
122.5°	738.2	738.8	739.1	739.4	739.7	740.0	739.6	739.1	738.7	738.2	737.4
125°	808.1	808.9	808.9	808.9	808.9	808.9	808.0	807.1	806.2	805.3	804.5
127.5°	870.2	870.7	870.6	870.5	870.3	870.2	869.7	869.2	868.7	868.2	867.1
130°	909.5	910.1	910.4	910.6	910.8	911.0	910.4	909.7	909.0	908.3	907.4
132.5°	949.4	949.8	949.3	948.8	948.3	947.9	947.7	947.6	947.4	947.3	946.6
135°	1005.3	1005.8	1005.3	1004.9	1004.4	1004.0	1003.5	1003.1	1002.6	1002.2	1001.3
137.5°	1055.9	1056.3	1055.9	1055.5	1055.0	1054.6	1054.7	1054.8	1054.9	1055.0	1054.5
140°	1086.5	1086.6	1086.4	1086.1	1085.9	1085.7	1086.1	1086.6	1087.0	1087.5	1087.0
142.5°	1116.0	1116.3	1116.6	1116.9	1117.2	1117.5	1117.6	1117.7	1117.8	1117.9	1117.3
145°	1161.0	1161.2	1161.2	1161.2	1161.2	1161.2	1161.5	1161.7	1162.0	1162.2	1161.6
147.5°	1197.7	1197.8	1198.0	1198.3	1198.6	1198.8	1199.1	1199.4	1199.7	1199.9	1199.3
150°	1220.7	1220.7	1221.2	1221.6	1222.1	1222.5	1223.0	1223.5	1224.0	1224.4	1223.7
152.5°	1242.2	1242.0	1242.4	1242.9	1243.3	1243.7	1244.3	1244.7	1245.2	1245.6	1245.1
155°	1271.2	1270.8	1271.2	1271.7	1272.1	1272.6	1273.2	1273.9	1274.7	1275.4	1274.8
157.5°	1296.9	1296.6	1296.6	1296.6	1296.7	1296.7	1297.5	1298.2	1298.9	1299.6	1299.1
160°	1311.1	1310.5	1310.7	1311.0	1311.2	1311.4	1312.3	1313.2	1314.1	1315.0	1314.5
162.5°	1324.1	1323.5	1323.8	1324.0	1324.2	1324.4	1325.8	1327.1	1328.3	1329.6	1329.2
165°	1341.7	1341.1	1341.4	1341.6	1341.8	1342.0	1343.4	1344.7	1346.2	1347.5	1347.3
167.5°	1354.6	1354.0	1354.2	1354.4	1354.7	1354.9	1356.6	1358.2	1359.8	1361.5	1361.3
170°	1361.2	1360.6	1360.8	1361.0	1361.2	1361.5	1363.3	1365.1	1367.0	1368.8	1368.6
172.5°	1366.1	1365.5	1365.9	1366.3	1366.8	1367.2	1368.8	1370.5	1372.1	1373.7	1373.5
175°	1372.3	1371.8	1372.0	1372.2	1372.5	1372.7	1374.5	1376.3	1378.2	1380.0	1379.9
177.5°	1375.9	1375.4	1375.6	1375.8	1375.9	1376.1	1377.5	1378.7	1380.0	1381.3	1381.2
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



TEST NUMBER: P333728-840

CATALOG NUMBER: S125RDIW-S1270D1050U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1837.0	1830.1	1828.2	1830.7	1828.2	1830.1	1837.0	1837.7	1838.3	1843.3	1836.3
5°	1694.9	1687.0	1690.9	1689.3	1690.9	1687.0	1694.9	1702.7	1704.2	1711.4	1716.1
7.5°	1569.8	1560.0	1549.6	1553.0	1549.6	1560.0	1569.8	1570.0	1582.3	1591.4	1597.5
10°	1482.3	1474.4	1469.7	1473.6	1469.7	1474.4	1482.3	1492.6	1497.2	1508.2	1520.0
12.5°	1408.7	1403.9	1399.8	1398.1	1399.8	1403.9	1408.7	1419.5	1430.5	1443.4	1456.5
15°	1308.3	1298.9	1294.9	1284.8	1294.9	1298.9	1308.3	1317.8	1339.1	1344.5	1364.2
17.5°	1215.9	1212.7	1202.5	1198.1	1202.5	1212.7	1215.9	1224.0	1233.8	1254.1	1268.8
20°	1161.1	1158.0	1147.7	1154.1	1147.7	1158.0	1161.1	1173.0	1180.8	1197.3	1211.5
22.5°	1115.8	1108.8	1105.5	1103.7	1105.5	1108.8	1115.8	1121.3	1131.7	1146.9	1163.1
25°	1051.7	1041.5	1037.5	1032.8	1037.5	1041.5	1051.7	1054.8	1065.9	1080.9	1089.4
27.5°	987.7	982.3	977.0	975.8	977.0	982.3	987.7	992.2	1001.8	1014.8	1030.5
30°	946.2	940.7	936.8	936.8	936.8	940.7	946.2	955.6	962.7	974.5	986.3
32.5°	909.1	904.8	900.9	900.3	900.9	904.8	909.1	914.1	922.4	935.5	948.0
35°	855.0	848.6	847.1	842.3	847.1	848.6	855.0	858.8	867.5	877.0	887.2
37.5°	798.7	793.5	793.3	792.8	793.3	793.5	798.7	805.7	812.8	821.3	833.9
40°	762.8	758.8	758.1	752.6	758.1	758.8	762.8	766.0	773.9	784.9	794.3
42.5°	724.4	722.4	719.6	717.3	719.6	722.4	724.4	730.6	737.3	745.2	757.1
45°	672.3	666.7	666.7	662.8	666.7	666.7	672.3	677.8	681.0	690.3	706.1
47.5°	618.4	614.2	614.6	610.6	614.6	614.2	618.4	620.2	625.2	634.5	643.2
50°	582.5	580.2	579.4	577.8	579.4	580.2	582.5	581.8	588.0	596.7	608.5
52.5°	546.6	545.5	548.6	545.0	548.6	545.5	546.6	548.4	552.8	558.3	569.5
55°	498.3	495.9	500.7	495.9	500.7	495.9	498.3	496.8	498.3	503.8	510.9
57.5°	442.7	440.5	444.7	442.4	444.7	440.5	442.7	443.0	447.8	448.6	454.8
60°	406.2	401.5	403.8	404.7	403.8	401.5	406.2	407.8	409.3	410.1	416.5
62.5°	362.7	359.9	361.6	358.0	361.6	359.9	362.7	366.2	369.7	373.7	377.4
65°	301.5	299.1	296.0	294.4	296.0	299.1	301.5	303.1	311.7	316.5	325.1
67.5°	253.3	247.6	247.5	248.7	247.5	247.6	253.3	253.0	259.3	263.1	268.9
70°	218.0	218.0	217.2	217.2	217.2	218.0	218.0	222.8	225.9	229.0	233.0
72.5°	193.5	192.9	191.5	190.9	191.5	192.9	193.5	195.1	196.9	200.2	204.0
75°	155.8	156.6	155.1	154.3	155.1	156.6	155.8	155.8	159.1	159.8	161.4
77.5°	115.1	111.8	113.5	111.8	113.5	111.8	115.1	118.3	119.4	122.8	123.0
80°	87.4	86.5	89.0	86.5	89.0	86.5	87.4	87.4	89.8	91.3	95.2
82.5°	69.1	68.4	69.5	67.7	69.5	68.4	69.1	68.5	69.6	71.8	71.3
85°	41.7	40.9	40.2	40.9	40.2	40.9	41.7	40.9	40.2	40.9	41.7
87.5°	19.0	18.5	18.6	18.8	18.6	18.5	19.0	18.2	18.7	18.5	18.2
90°	22.5	23.1	23.8	24.5	23.8	23.1	22.5	21.8	20.9	19.8	18.6
92.5°	21.9	22.2	22.5	22.9	22.5	22.2	21.9	21.6	20.9	19.8	18.6
95°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	20.9	19.8	18.6
97.5°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	24.6	31.0	37.5
100°	24.1	23.2	22.3	21.4	22.3	23.2	24.1	25.0	42.4	76.2	110.1
102.5°	174.8	159.4	143.9	128.5	143.9	159.4	174.8	190.3	201.2	207.5	213.9
105°	304.1	303.8	303.6	303.4	303.6	303.8	304.1	304.3	304.4	304.4	304.4
107.5°	384.5	383.7	383.0	382.4	383.0	383.7	384.5	385.2	385.5	385.4	385.4
110°	436.5	436.7	436.9	437.2	436.9	436.7	436.5	436.3	436.5	437.2	437.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	487.2	486.8	486.5	486.1	486.5	486.8	487.2	487.5	488.1	488.9	489.8
115°	563.8	562.4	561.1	559.7	561.1	562.4	563.8	565.1	566.2	567.1	568.0
117.5°	640.0	639.3	638.7	638.1	638.7	639.3	640.0	640.5	641.4	642.6	643.8
120°	689.7	688.6	687.5	686.3	687.5	688.6	689.7	690.8	691.7	692.2	692.6
122.5°	736.1	734.8	733.5	732.2	733.5	734.8	736.1	737.4	738.2	738.7	739.1
125°	803.9	803.1	802.4	801.7	802.4	803.1	803.9	804.5	805.3	806.2	807.1
127.5°	865.5	863.7	862.0	860.4	862.0	863.7	865.5	867.1	868.2	868.7	869.2
130°	906.3	905.1	904.0	902.9	904.0	905.1	906.3	907.4	908.3	909.0	909.7
132.5°	945.5	944.3	943.2	942.1	943.2	944.3	945.5	946.6	947.3	947.4	947.6
135°	999.9	998.6	997.1	995.8	997.1	998.6	999.9	1001.3	1002.2	1002.6	1003.1
137.5°	1053.3	1052.1	1051.0	1049.8	1051.0	1052.1	1053.3	1054.5	1055.0	1054.9	1054.8
140°	1085.7	1084.3	1083.0	1081.6	1083.0	1084.3	1085.7	1087.0	1087.5	1087.0	1086.6
142.5°	1115.9	1114.6	1113.2	1111.9	1113.2	1114.6	1115.9	1117.3	1117.9	1117.8	1117.7
145°	1160.2	1158.9	1157.5	1156.2	1157.5	1158.9	1160.2	1161.6	1162.2	1162.0	1161.7
147.5°	1197.6	1196.0	1194.4	1192.8	1194.4	1196.0	1197.6	1199.3	1199.9	1199.7	1199.4
150°	1221.8	1220.0	1218.2	1216.4	1218.2	1220.0	1221.8	1223.7	1224.4	1224.0	1223.5
152.5°	1243.3	1241.7	1240.1	1238.5	1240.1	1241.7	1243.3	1245.1	1245.6	1245.2	1244.7
155°	1272.9	1271.1	1269.3	1267.5	1269.3	1271.1	1272.9	1274.8	1275.4	1274.7	1273.9
157.5°	1297.3	1295.5	1293.6	1291.8	1293.6	1295.5	1297.3	1299.1	1299.6	1298.9	1298.2
160°	1312.8	1311.0	1309.2	1307.4	1309.2	1311.0	1312.8	1314.5	1315.0	1314.1	1313.2
162.5°	1327.2	1325.2	1323.2	1321.2	1323.2	1325.2	1327.2	1329.2	1329.6	1328.3	1327.1
165°	1345.4	1343.6	1341.8	1340.0	1341.8	1343.6	1345.4	1347.3	1347.5	1346.2	1344.7
167.5°	1359.2	1357.2	1355.1	1353.1	1355.1	1357.2	1359.2	1361.3	1361.5	1359.8	1358.2
170°	1366.5	1364.5	1362.5	1360.4	1362.5	1364.5	1366.5	1368.6	1368.8	1367.0	1365.1
172.5°	1371.5	1369.4	1367.4	1365.3	1367.4	1369.4	1371.5	1373.5	1373.7	1372.1	1370.5
175°	1377.8	1375.7	1373.7	1371.7	1373.7	1375.7	1377.8	1379.9	1380.0	1378.2	1376.3
177.5°	1379.7	1378.3	1376.8	1375.3	1376.8	1378.3	1379.7	1381.2	1381.3	1380.0	1378.7
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1838.3	1845.2	1849.0	1857.7	1870.4	1876.7	1885.5	1891.8	1900.7	1911.4	1920.2
5°	1719.3	1738.2	1750.7	1770.4	1788.6	1806.6	1829.5	1846.0	1868.0	1893.2	1912.9
7.5°	1608.7	1632.3	1653.3	1679.3	1709.2	1732.5	1762.2	1792.6	1827.0	1862.8	1896.5
10°	1538.2	1561.9	1587.8	1620.0	1650.0	1681.4	1716.9	1752.3	1795.6	1835.7	1881.4
12.5°	1468.2	1494.4	1523.6	1559.6	1595.8	1636.1	1672.1	1712.0	1758.5	1810.6	1859.4
15°	1381.5	1406.7	1438.2	1468.9	1510.7	1554.7	1602.8	1655.5	1707.5	1765.6	1826.3
17.5°	1288.5	1316.2	1350.8	1386.4	1430.4	1482.0	1529.0	1586.8	1645.3	1713.1	1784.4
20°	1228.0	1256.4	1297.3	1336.7	1376.8	1427.2	1483.1	1542.2	1604.3	1676.0	1755.4
22.5°	1180.1	1200.3	1240.6	1280.6	1327.7	1379.4	1434.0	1495.5	1563.4	1637.5	1720.8
25°	1109.1	1132.8	1162.0	1203.7	1252.4	1306.8	1361.9	1427.2	1501.2	1576.8	1665.7
27.5°	1046.0	1065.4	1094.2	1126.9	1175.6	1231.9	1290.5	1358.7	1434.6	1511.6	1605.1
30°	1001.3	1022.6	1050.2	1084.8	1123.4	1184.8	1244.6	1311.5	1388.7	1468.1	1564.2
32.5°	962.3	984.1	1007.9	1040.7	1082.4	1136.9	1198.6	1264.3	1342.6	1424.7	1518.2
35°	907.7	922.6	944.6	976.9	1017.8	1062.0	1124.9	1194.2	1270.5	1355.5	1449.3
37.5°	845.0	864.3	886.3	914.2	950.2	997.8	1056.4	1126.5	1197.3	1278.7	1364.2
40°	808.5	826.6	851.0	871.4	909.2	952.5	1006.0	1079.2	1150.1	1226.5	1304.4
42.5°	771.3	788.8	809.4	835.0	868.9	911.0	960.7	1028.9	1104.8	1176.7	1242.0
45°	713.2	731.3	751.0	774.6	806.1	847.1	896.7	958.8	1024.9	1091.1	1140.6
47.5°	657.6	674.6	693.2	717.4	746.4	786.0	830.3	885.2	949.5	1005.7	1041.2
50°	617.9	633.7	654.2	677.8	706.1	743.2	785.7	839.9	893.4	944.6	976.9
52.5°	579.0	596.5	617.0	637.4	664.6	701.6	740.9	787.7	838.7	880.4	907.1
55°	520.4	536.8	555.7	577.0	603.8	635.3	677.0	714.0	754.2	789.6	805.3
57.5°	463.8	478.3	496.0	518.2	542.2	571.5	604.6	640.2	668.5	693.6	711.3
60°	426.7	439.3	455.8	474.6	500.7	527.5	557.3	590.4	612.5	633.7	650.3
62.5°	388.9	400.8	416.8	433.7	456.6	481.4	510.1	536.8	558.3	572.6	591.7
65°	332.2	344.0	357.4	375.5	393.6	414.0	440.0	459.7	474.6	490.4	502.2
67.5°	279.4	289.2	301.9	316.2	331.4	351.1	371.2	387.6	397.9	407.3	421.5
70°	244.8	252.7	263.0	274.0	290.4	310.1	325.9	338.5	345.6	355.1	372.3
72.5°	209.5	218.6	228.3	239.3	252.7	269.2	283.1	295.7	300.2	307.8	318.8
75°	165.3	170.1	177.9	185.8	195.2	209.4	222.8	225.9	229.8	236.2	244.0
77.5°	125.0	129.3	132.4	137.6	145.1	156.5	163.6	168.3	169.3	171.6	179.4
80°	99.2	101.6	104.7	108.7	111.8	121.2	125.1	129.9	131.5	133.8	137.7
82.5°	72.7	75.1	77.0	80.3	85.3	89.1	93.0	97.8	98.1	99.8	100.6
85°	42.5	43.3	41.7	43.3	44.1	45.6	49.6	53.5	52.7	51.9	54.3
87.5°	18.6	18.4	17.5	19.0	17.5	17.8	17.4	17.7	18.6	19.5	20.4
90°	17.5	16.4	14.7	13.1	11.6	10.0	8.3	6.5	4.6	2.8	1.0
92.5°	17.5	16.4	14.9	13.5	12.1	10.7	10.6	11.9	13.2	14.4	15.8
95°	17.5	16.4	24.9	33.6	42.2	50.8	55.5	56.1	56.9	57.6	58.2
97.5°	43.8	50.3	67.4	84.4	101.5	118.6	126.4	125.2	124.0	122.8	121.6
100°	143.9	177.7	176.8	175.9	175.0	174.1	173.3	172.6	171.9	171.3	170.6
102.5°	220.4	226.7	226.2	225.6	225.1	224.6	223.9	223.0	222.2	221.3	220.5
105°	304.4	304.4	304.4	304.4	304.4	304.4	303.9	303.0	302.1	301.1	300.2
107.5°	385.3	385.3	384.8	384.4	383.8	383.4	383.2	383.2	383.2	383.2	383.2
110°	438.5	439.2	438.7	438.3	437.8	437.4	437.2	437.2	437.2	437.2	437.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	490.6	491.5	491.2	490.9	490.7	490.4	490.0	489.4	488.9	488.4	487.8
115°	569.0	569.9	569.7	569.5	569.3	569.0	568.4	567.1	566.0	564.9	563.8
117.5°	644.9	646.1	645.2	644.4	643.5	642.7	642.3	642.3	642.4	642.4	642.5
120°	693.1	693.5	692.8	692.2	691.5	690.7	690.5	690.7	690.9	691.3	691.5
122.5°	739.6	740.0	739.7	739.4	739.1	738.8	738.2	737.3	736.5	735.6	734.8
125°	808.0	808.9	808.9	808.9	808.9	808.9	808.1	806.5	805.0	803.3	801.7
127.5°	869.7	870.2	870.3	870.5	870.6	870.7	870.2	869.1	868.0	866.9	865.7
130°	910.4	911.0	910.8	910.6	910.4	910.1	909.5	908.3	907.2	906.1	904.9
132.5°	947.7	947.9	948.3	948.8	949.3	949.8	949.4	948.1	946.7	945.4	944.1
135°	1003.5	1004.0	1004.4	1004.9	1005.3	1005.8	1005.3	1004.0	1002.6	1001.3	999.9
137.5°	1054.7	1054.6	1055.0	1055.5	1055.9	1056.3	1055.9	1054.7	1053.5	1052.4	1051.2
140°	1086.1	1085.7	1085.9	1086.1	1086.4	1086.6	1086.5	1086.0	1085.6	1085.1	1084.7
142.5°	1117.6	1117.5	1117.2	1116.9	1116.6	1116.3	1116.0	1115.7	1115.5	1115.2	1114.9
145°	1161.5	1161.2	1161.2	1161.2	1161.2	1161.2	1161.0	1160.6	1160.1	1159.7	1159.2
147.5°	1199.1	1198.8	1198.6	1198.3	1198.0	1197.8	1197.7	1197.8	1197.9	1198.0	1198.0
150°	1223.0	1222.5	1222.1	1221.6	1221.2	1220.7	1220.7	1221.2	1221.6	1222.1	1222.5
152.5°	1244.3	1243.7	1243.3	1242.9	1242.4	1242.0	1242.2	1243.2	1244.3	1245.3	1246.3
155°	1273.2	1272.6	1272.1	1271.7	1271.2	1270.8	1271.2	1272.6	1273.9	1275.4	1276.7
157.5°	1297.5	1296.7	1296.7	1296.6	1296.6	1296.6	1296.9	1297.8	1298.6	1299.4	1300.2
160°	1312.3	1311.4	1311.2	1311.0	1310.7	1310.5	1311.1	1312.4	1313.8	1315.1	1316.6
162.5°	1325.8	1324.4	1324.2	1324.0	1323.8	1323.5	1324.1	1325.5	1326.9	1328.3	1329.6
165°	1343.4	1342.0	1341.8	1341.6	1341.4	1341.1	1341.7	1343.1	1344.4	1345.8	1347.2
167.5°	1356.6	1354.9	1354.7	1354.4	1354.2	1354.0	1354.6	1356.0	1357.5	1358.9	1360.2
170°	1363.3	1361.5	1361.2	1361.0	1360.8	1360.6	1361.2	1362.8	1364.4	1366.0	1367.6
172.5°	1368.8	1367.2	1366.8	1366.3	1365.9	1365.5	1366.1	1367.8	1369.3	1370.9	1372.5
175°	1374.5	1372.7	1372.5	1372.2	1372.0	1371.8	1372.3	1373.7	1375.0	1376.4	1377.8
177.5°	1377.5	1376.1	1375.9	1375.8	1375.6	1375.4	1375.9	1377.0	1378.1	1379.2	1380.3
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1927.0	1932.8	1941.0	1950.4	1957.9	1966.1	1970.5	1970.5	1974.3	1982.5	1993.2
5°	1932.6	1953.1	1972.8	1997.9	2017.6	2040.4	2057.7	2074.3	2089.2	2108.1	2127.8
7.5°	1931.0	1965.0	2000.4	2040.1	2083.9	2118.7	2154.4	2182.4	2210.2	2246.3	2274.8
10°	1924.7	1968.8	2016.8	2067.2	2122.3	2170.3	2213.6	2253.0	2290.8	2330.2	2365.5
12.5°	1913.4	1969.4	2028.1	2088.6	2158.2	2213.1	2269.1	2310.9	2355.0	2398.1	2441.8
15°	1896.3	1962.5	2033.4	2117.6	2202.6	2264.0	2319.1	2373.4	2414.4	2463.2	2504.9
17.5°	1861.3	1946.4	2035.6	2127.7	2209.4	2280.7	2338.4	2390.1	2433.7	2487.4	2544.1
20°	1840.5	1932.6	2025.5	2123.8	2201.8	2275.0	2330.9	2384.4	2438.7	2508.8	2578.1
22.5°	1811.5	1910.0	2008.4	2101.8	2184.1	2254.8	2312.7	2378.1	2449.4	2529.0	2612.7
25°	1765.6	1867.2	1964.9	2053.8	2134.1	2206.6	2285.2	2373.4	2460.0	2564.8	2685.1
27.5°	1707.6	1805.5	1892.6	1986.6	2066.4	2158.5	2256.7	2352.3	2477.2	2621.2	2771.6
30°	1664.2	1757.1	1839.7	1928.6	2019.1	2120.7	2230.9	2343.5	2492.2	2661.5	2840.2
32.5°	1613.8	1697.9	1779.9	1865.6	1970.0	2081.6	2198.8	2336.5	2514.4	2706.8	2891.8
35°	1526.4	1601.9	1681.4	1776.8	1887.7	2008.9	2158.5	2326.2	2541.1	2748.1	2914.3
37.5°	1434.7	1494.4	1574.3	1674.7	1795.6	1935.9	2105.6	2309.4	2530.1	2715.8	2786.5
40°	1364.2	1420.1	1504.3	1609.8	1729.5	1883.0	2073.5	2282.9	2504.9	2633.9	2628.5
42.5°	1294.3	1350.8	1431.9	1538.0	1662.7	1834.5	2030.6	2248.3	2435.6	2484.8	2382.3
45°	1187.1	1239.8	1319.4	1426.4	1560.2	1740.5	1946.7	2155.4	2275.0	2195.5	1992.4
47.5°	1077.8	1129.0	1202.9	1307.7	1453.8	1642.4	1837.4	2008.6	2025.5	1854.6	1611.0
50°	1006.0	1054.1	1124.1	1235.9	1377.6	1561.9	1750.0	1884.6	1842.8	1634.3	1383.1
52.5°	936.1	982.3	1047.9	1153.4	1298.3	1478.6	1646.7	1752.3	1655.8	1434.0	1208.0
55°	832.8	877.0	943.1	1039.9	1171.3	1336.7	1483.9	1522.5	1380.8	1157.2	974.5
57.5°	734.8	767.1	832.4	918.1	1044.8	1190.5	1296.1	1289.1	1132.8	931.4	800.4
60°	669.9	699.0	761.2	839.9	960.4	1091.1	1165.1	1133.6	975.3	809.2	683.3
62.5°	609.5	636.7	688.8	761.2	864.6	978.4	1032.2	988.8	839.3	693.4	593.2
65°	518.0	537.7	579.4	646.3	727.4	806.1	854.1	790.3	658.1	547.9	472.3
67.5°	432.5	449.5	486.7	534.6	590.6	644.9	664.4	604.6	501.8	427.5	374.3
70°	377.1	392.8	418.0	462.9	499.9	538.5	547.9	494.3	408.6	351.8	318.8
72.5°	324.2	338.6	360.7	392.3	418.0	440.2	444.6	394.9	329.2	290.1	264.7
75°	247.2	259.7	274.0	285.8	302.3	306.2	304.7	266.1	230.7	204.7	190.5
77.5°	181.7	186.9	195.5	200.3	201.1	200.8	192.7	168.3	150.1	139.4	133.5
80°	140.2	144.1	146.4	147.9	148.8	140.9	132.3	117.2	111.0	104.7	97.7
82.5°	101.7	104.4	106.7	107.0	102.8	96.2	88.2	80.8	76.3	73.2	70.5
85°	55.1	55.8	55.1	51.2	45.6	43.3	41.7	40.2	39.4	38.6	38.6
87.5°	20.1	18.6	15.8	16.8	17.1	16.8	17.2	16.8	16.5	16.8	17.0
90°	2.8	4.6	6.5	8.3	10.0	11.6	13.1	14.7	16.4	17.5	18.6
92.5°	14.4	13.2	11.9	10.6	10.7	12.1	13.5	14.9	16.4	17.5	18.6
95°	57.6	56.9	56.1	55.5	50.8	42.2	33.6	24.9	16.4	17.5	18.6
97.5°	122.8	124.0	125.2	126.4	118.6	101.5	84.4	67.4	50.3	43.8	37.5
100°	171.3	171.9	172.6	173.3	174.1	175.0	175.9	176.8	177.7	143.9	110.1
102.5°	221.3	222.2	223.0	223.9	224.6	225.1	225.6	226.2	226.7	220.4	213.9
105°	301.1	302.1	303.0	303.9	304.4	304.4	304.4	304.4	304.4	304.4	304.4
107.5°	383.2	383.2	383.2	383.2	383.4	383.8	384.4	384.8	385.3	385.3	385.4
110°	437.2	437.2	437.2	437.2	437.4	437.8	438.3	438.7	439.2	438.5	437.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	488.4	488.9	489.4	490.0	490.4	490.7	490.9	491.2	491.5	490.6	489.8
115°	564.9	566.0	567.1	568.4	569.0	569.3	569.5	569.7	569.9	569.0	568.0
117.5°	642.4	642.4	642.3	642.3	642.7	643.5	644.4	645.2	646.1	644.9	643.8
120°	691.3	690.9	690.7	690.5	690.7	691.5	692.2	692.8	693.5	693.1	692.6
122.5°	735.6	736.5	737.3	738.2	738.8	739.1	739.4	739.7	740.0	739.6	739.1
125°	803.3	805.0	806.5	808.1	808.9	808.9	808.9	808.9	808.9	808.0	807.1
127.5°	866.9	868.0	869.1	870.2	870.7	870.6	870.5	870.3	870.2	869.7	869.2
130°	906.1	907.2	908.3	909.5	910.1	910.4	910.6	910.8	911.0	910.4	909.7
132.5°	945.4	946.7	948.1	949.4	949.8	949.3	948.8	948.3	947.9	947.7	947.6
135°	1001.3	1002.6	1004.0	1005.3	1005.8	1005.3	1004.9	1004.4	1004.0	1003.5	1003.1
137.5°	1052.4	1053.5	1054.7	1055.9	1056.3	1055.9	1055.5	1055.0	1054.6	1054.7	1054.8
140°	1085.1	1085.6	1086.0	1086.5	1086.6	1086.4	1086.1	1085.9	1085.7	1086.1	1086.6
142.5°	1115.2	1115.5	1115.7	1116.0	1116.3	1116.6	1116.9	1117.2	1117.5	1117.6	1117.7
145°	1159.7	1160.1	1160.6	1161.0	1161.2	1161.2	1161.2	1161.2	1161.2	1161.5	1161.7
147.5°	1198.0	1197.9	1197.8	1197.7	1197.8	1198.0	1198.3	1198.6	1198.8	1199.1	1199.4
150°	1222.1	1221.6	1221.2	1220.7	1220.7	1221.2	1221.6	1222.1	1222.5	1223.0	1223.5
152.5°	1245.3	1244.3	1243.2	1242.2	1242.0	1242.4	1242.9	1243.3	1243.7	1244.3	1244.7
155°	1275.4	1273.9	1272.6	1271.2	1270.8	1271.2	1271.7	1272.1	1272.6	1273.2	1273.9
157.5°	1299.4	1298.6	1297.8	1296.9	1296.6	1296.6	1296.6	1296.7	1296.7	1297.5	1298.2
160°	1315.1	1313.8	1312.4	1311.1	1310.5	1310.7	1311.0	1311.2	1311.4	1312.3	1313.2
162.5°	1328.3	1326.9	1325.5	1324.1	1323.5	1323.8	1324.0	1324.2	1324.4	1325.8	1327.1
165°	1345.8	1344.4	1343.1	1341.7	1341.1	1341.4	1341.6	1341.8	1342.0	1343.4	1344.7
167.5°	1358.9	1357.5	1356.0	1354.6	1354.0	1354.2	1354.4	1354.7	1354.9	1356.6	1358.2
170°	1366.0	1364.4	1362.8	1361.2	1360.6	1360.8	1361.0	1361.2	1361.5	1363.3	1365.1
172.5°	1370.9	1369.3	1367.8	1366.1	1365.5	1365.9	1366.3	1366.8	1367.2	1368.8	1370.5
175°	1376.4	1375.0	1373.7	1372.3	1371.8	1372.0	1372.2	1372.5	1372.7	1374.5	1376.3
177.5°	1379.2	1378.1	1377.0	1375.9	1375.4	1375.6	1375.8	1375.9	1376.1	1377.5	1378.7
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	2001.4	2001.4	2012.1	2011.4	2018.4	2015.9	2017.1
5°	2151.4	2164.8	2176.7	2184.4	2196.3	2199.5	2197.9
7.5°	2306.9	2336.7	2351.2	2371.1	2374.7	2385.1	2384.0
10°	2403.4	2432.5	2454.5	2471.8	2480.4	2491.5	2492.2
12.5°	2478.9	2503.7	2523.1	2539.2	2549.7	2553.2	2555.3
15°	2537.9	2565.5	2588.3	2611.1	2624.5	2634.7	2640.3
17.5°	2597.5	2640.0	2680.3	2711.3	2729.9	2745.6	2745.4
20°	2643.4	2692.2	2742.6	2778.0	2814.3	2829.9	2832.4
22.5°	2692.5	2767.1	2832.1	2887.0	2934.6	2950.9	2957.1
25°	2794.6	2892.2	2992.1	3069.3	3124.4	3156.6	3161.4
27.5°	2917.8	3049.9	3155.1	3226.3	3272.1	3296.0	3301.2
30°	3004.8	3126.7	3221.3	3274.8	3296.0	3299.1	3287.3
32.5°	3043.8	3134.9	3172.7	3169.6	3127.9	3100.2	3089.6
35°	2996.1	2977.2	2885.1	2774.9	2690.7	2637.2	2622.9
37.5°	2726.5	2563.6	2394.2	2227.7	2139.0	2094.0	2016.5
40°	2460.8	2228.6	2052.2	1912.1	1812.1	1731.8	1712.9
42.5°	2161.0	1921.3	1744.9	1625.0	1545.1	1490.1	1466.1
45°	1736.6	1530.3	1384.7	1292.6	1231.2	1191.0	1173.0
47.5°	1389.0	1229.3	1123.2	1055.0	1008.2	973.3	963.5
50°	1198.1	1070.6	980.9	923.4	888.0	861.2	850.2
52.5°	1040.7	937.8	868.8	821.3	787.8	771.1	762.0
55°	858.8	769.9	720.3	682.5	663.6	650.3	643.9
57.5°	702.4	638.1	601.9	575.7	558.3	549.8	546.6
60°	614.8	564.4	531.4	510.9	499.1	488.1	484.9
62.5°	537.3	497.7	472.2	454.2	442.4	437.7	435.8
65°	432.9	407.0	388.1	377.1	367.6	366.1	365.3
67.5°	344.2	328.9	319.0	307.5	304.2	298.6	297.6
70°	294.4	284.2	272.4	268.4	264.5	259.0	259.7
72.5°	249.7	239.4	231.5	226.2	224.8	222.5	224.5
75°	182.6	179.5	176.3	172.4	170.9	170.9	170.1
77.5°	130.4	127.6	124.2	121.9	121.4	118.1	119.4
80°	94.4	90.5	89.0	89.8	87.4	86.5	86.5
82.5°	69.9	68.5	67.0	67.1	66.6	65.8	66.4
85°	38.6	37.8	37.8	37.0	37.0	36.3	36.3
87.5°	17.8	18.7	17.6	17.1	17.3	18.0	18.8
90°	19.8	20.9	21.8	22.5	23.1	23.8	24.5
92.5°	19.8	20.9	21.6	21.9	22.2	22.5	22.9
95°	19.8	20.9	21.4	21.4	21.4	21.4	21.4
97.5°	31.0	24.6	21.4	21.4	21.4	21.4	21.4
100°	76.2	42.4	25.0	24.1	23.2	22.3	21.4
102.5°	207.5	201.2	190.3	174.8	159.4	143.9	128.5
105°	304.4	304.4	304.3	304.1	303.8	303.6	303.4
107.5°	385.4	385.5	385.2	384.5	383.7	383.0	382.4
110°	437.2	436.5	436.3	436.5	436.7	436.9	437.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	488.9	488.1	487.5	487.2	486.8	486.5	486.1
115°	567.1	566.2	565.1	563.8	562.4	561.1	559.7
117.5°	642.6	641.4	640.5	640.0	639.3	638.7	638.1
120°	692.2	691.7	690.8	689.7	688.6	687.5	686.3
122.5°	738.7	738.2	737.4	736.1	734.8	733.5	732.2
125°	806.2	805.3	804.5	803.9	803.1	802.4	801.7
127.5°	868.7	868.2	867.1	865.5	863.7	862.0	860.4
130°	909.0	908.3	907.4	906.3	905.1	904.0	902.9
132.5°	947.4	947.3	946.6	945.5	944.3	943.2	942.1
135°	1002.6	1002.2	1001.3	999.9	998.6	997.1	995.8
137.5°	1054.9	1055.0	1054.5	1053.3	1052.1	1051.0	1049.8
140°	1087.0	1087.5	1087.0	1085.7	1084.3	1083.0	1081.6
142.5°	1117.8	1117.9	1117.3	1115.9	1114.6	1113.2	1111.9
145°	1162.0	1162.2	1161.6	1160.2	1158.9	1157.5	1156.2
147.5°	1199.7	1199.9	1199.3	1197.6	1196.0	1194.4	1192.8
150°	1224.0	1224.4	1223.7	1221.8	1220.0	1218.2	1216.4
152.5°	1245.2	1245.6	1245.1	1243.3	1241.7	1240.1	1238.5
155°	1274.7	1275.4	1274.8	1272.9	1271.1	1269.3	1267.5
157.5°	1298.9	1299.6	1299.1	1297.3	1295.5	1293.6	1291.8
160°	1314.1	1315.0	1314.5	1312.8	1311.0	1309.2	1307.4
162.5°	1328.3	1329.6	1329.2	1327.2	1325.2	1323.2	1321.2
165°	1346.2	1347.5	1347.3	1345.4	1343.6	1341.8	1340.0
167.5°	1359.8	1361.5	1361.3	1359.2	1357.2	1355.1	1353.1
170°	1367.0	1368.8	1368.6	1366.5	1364.5	1362.5	1360.4
172.5°	1372.1	1373.7	1373.5	1371.5	1369.4	1367.4	1365.3
175°	1378.2	1380.0	1379.9	1377.8	1375.7	1373.7	1371.7
177.5°	1380.0	1381.3	1381.2	1379.7	1378.3	1376.8	1375.3
180°	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8	1377.8

(END OF REPORT)