

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: P332082-840

Luminaire Tested: **S123DIP-S1165D1195U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332082-840
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-S1165D1195U840-4F0-1E-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: 9087.1 lumens
Efficiency: N/A
Efficacy: 126.7 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

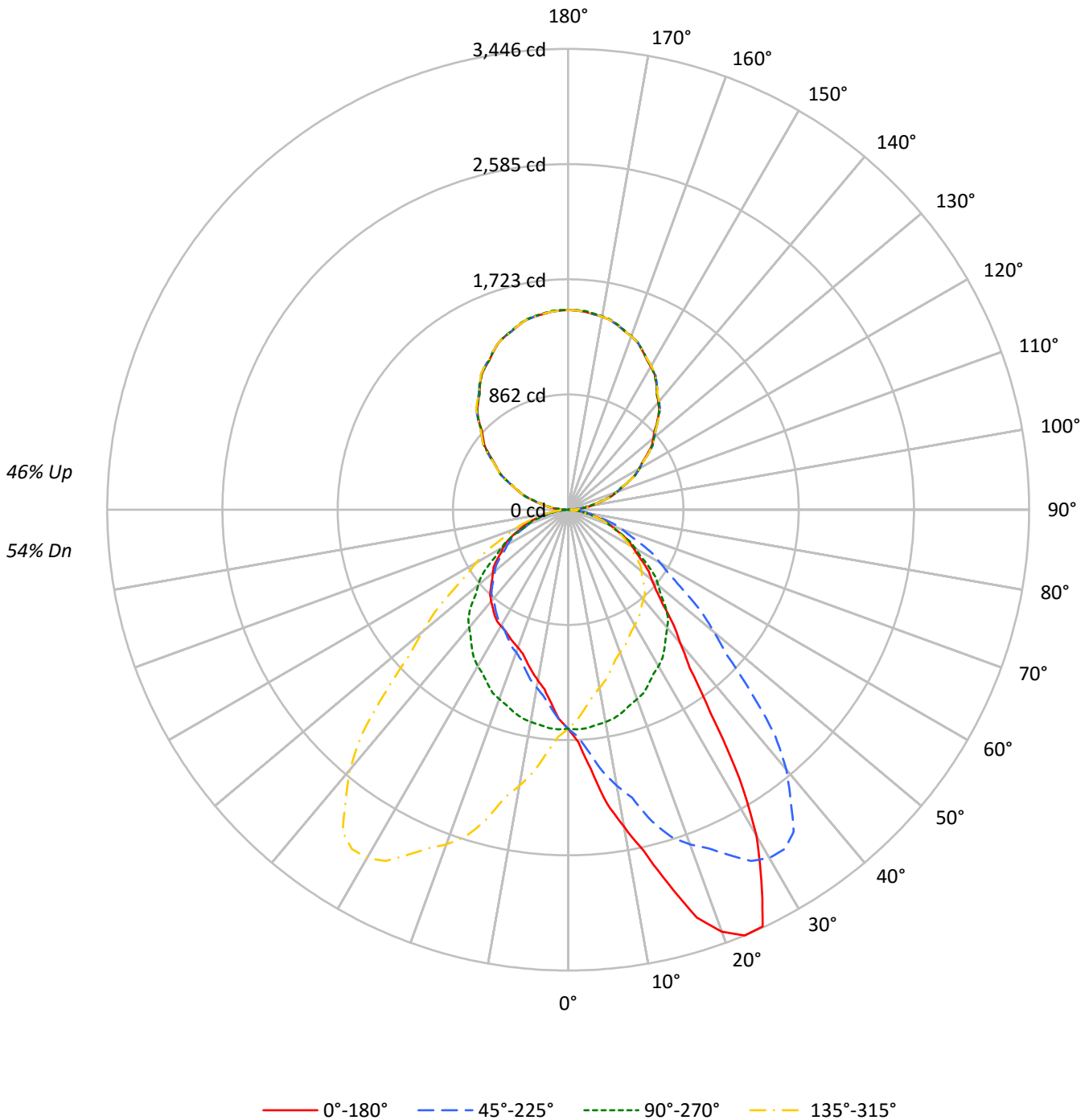
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17632	17632	17632	17632
5°	21028	17708	15693	17708
10°	26319	17618	14175	17618
15°	32282	17477	13196	17477
20°	38456	17255	12564	17255
25°	40834	16986	12423	16986
30°	34999	16789	12489	16789
35°	24341	16509	12620	16509
40°	18334	16183	12579	16183
45°	15224	15694	12420	15694
50°	13638	14699	12308	14699
55°	12748	13628	12153	13628
60°	11959	12508	12030	12508
65°	11240	11403	11645	11403
70°	10543	10140	11087	10140
75°	9441	8879	10168	8879
80°	8263	7277	8759	7277
85°	6472	5286	5891	5286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	1.8
10°-20°	517.4	5.7
20°-30°	868.4	9.6
30°-40°	983.3	10.8
40°-50°	881.8	9.7
50°-60°	711.6	7.8
60°-70°	495.9	5.5
70°-80°	260.6	2.9
80°-90°	68.2	0.8
90°-100°	97.3	1.1
100°-110°	291.2	3.2
110°-120°	495.4	5.5
120°-130°	651.6	7.2
130°-140°	732.3	8.1
140°-150°	719.9	7.9
150°-160°	606.0	6.7
160°-170°	403.4	4.4
170°-180°	141.3	1.6
0°-30°	1547.2	17.0
0°-40°	2530.6	27.8
0°-60°	4124.0	45.4
0°-90°	4948.7	54.5
90°-120°	883.9	9.7
90°-150°	2987.7	32.9
90°-180°	4138.0	45.5
0°-180°	9087.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1638	1638	1638	1638	1638	
5°	1946	1639	1452	1639	1946	202
15°	2897	1568	1184	1568	2897	836
25°	3438	1430	1046	1430	3438	1508
35°	1852	1256	960	1256	1852	1204
45°	1000	1031	816	1031	1000	791
55°	679	726	648	726	679	610
65°	441	448	457	448	441	439
75°	227	214	244	214	227	243
85°	52	43	48	43	52	63
90°	35	1	35	1	35	20
95°	92	69	92	69	92	94
105°	279	264	279	264	279	296
115°	500	499	500	499	500	495
125°	722	730	722	730	722	645
135°	946	947	946	947	946	727
145°	1149	1149	1149	1149	1149	717
155°	1313	1315	1313	1315	1313	605
165°	1428	1433	1428	1433	1428	403
175°	1484	1490	1484	1490	1484	141
180°	1494	1494	1494	1494	1494	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1738.5	1737.2	1734.0	1736.6	1731.5	1724.4	1723.8	1717.5	1699.1	1697.8	1692.7
5°	1946.1	1939.7	1938.9	1938.1	1927.0	1912.0	1883.4	1881.0	1842.9	1823.8	1800.9
7.5°	2214.9	2218.3	2206.8	2196.6	2162.6	2140.2	2109.6	2070.4	2023.6	1976.1	1944.5
10°	2408.0	2434.2	2401.7	2379.4	2358.8	2319.9	2274.7	2218.3	2161.9	2096.1	2046.1
12.5°	2615.0	2627.9	2621.3	2600.4	2568.3	2509.1	2428.9	2366.9	2315.0	2205.3	2161.0
15°	2896.9	2945.4	2914.4	2843.0	2844.5	2788.1	2683.4	2568.3	2507.2	2411.2	2280.3
17.5°	3197.2	3203.3	3190.1	3130.6	3090.9	3013.4	2916.8	2806.4	2682.6	2566.5	2427.5
20°	3357.2	3352.4	3324.7	3293.8	3225.5	3165.2	3059.6	2936.6	2777.8	2663.6	2511.9
22.5°	3446.2	3438.2	3425.1	3399.1	3342.4	3277.5	3182.8	3048.4	2897.2	2739.8	2564.7
25°	3438.2	3448.5	3450.1	3442.9	3423.1	3384.3	3309.6	3202.5	3051.7	2849.3	2666.8
27.5°	3127.0	3141.7	3184.1	3221.7	3263.8	3306.6	3300.8	3247.7	3136.1	2961.3	2738.1
30°	2815.9	2784.2	2862.8	2962.0	3029.5	3148.5	3215.2	3219.1	3156.4	3006.5	2788.9
32.5°	2384.2	2419.1	2453.9	2576.0	2723.4	2857.1	2989.8	3096.7	3108.9	3009.0	2818.8
35°	1852.4	1896.1	1959.5	2023.1	2181.8	2318.3	2551.6	2754.8	2916.8	2938.2	2821.5
37.5°	1492.8	1514.3	1554.5	1618.1	1721.9	1883.9	2064.4	2321.2	2555.8	2730.3	2737.8
40°	1304.8	1311.1	1356.3	1404.8	1488.9	1622.2	1784.9	2012.0	2292.9	2536.6	2638.2
42.5°	1163.9	1177.8	1197.0	1243.5	1310.5	1410.9	1562.2	1749.7	2007.2	2287.6	2486.4
45°	1000.1	1015.9	1027.8	1058.7	1106.4	1173.9	1279.4	1450.9	1646.9	1936.5	2204.0
47.5°	891.8	893.0	901.9	925.2	957.7	1008.2	1082.9	1193.1	1373.0	1608.0	1882.6
50°	814.4	827.0	830.2	848.4	873.8	911.1	973.0	1066.7	1214.4	1420.7	1673.0
52.5°	759.7	763.6	772.4	785.6	807.8	836.9	890.5	963.8	1079.7	1255.6	1487.6
55°	679.3	679.3	688.1	698.4	711.1	737.3	773.1	827.0	915.1	1051.6	1243.6
57.5°	605.1	609.0	615.2	618.4	629.2	646.5	676.4	717.3	783.0	888.1	1040.9
60°	555.5	562.7	561.9	568.3	577.8	591.3	616.7	650.1	708.7	792.8	921.5
62.5°	512.4	511.9	511.8	519.4	528.9	541.8	558.3	587.1	637.0	711.7	821.1
65°	441.3	439.7	445.2	450.0	453.2	462.7	475.4	500.8	534.1	589.7	674.6
67.5°	378.1	373.5	376.5	378.1	383.5	390.9	402.8	418.6	445.0	489.7	553.7
70°	335.0	330.9	330.1	331.7	336.5	342.0	350.8	365.9	390.5	426.2	473.0
72.5°	290.4	287.8	287.6	291.1	293.4	297.0	303.2	317.0	336.5	363.3	407.0
75°	227.0	227.0	227.0	227.8	230.1	233.4	238.1	245.2	260.3	279.3	308.7
77.5°	170.2	170.0	169.1	168.8	172.4	173.8	174.9	181.6	190.0	202.9	224.3
80°	133.3	129.4	131.0	133.3	134.9	135.7	138.1	139.7	146.8	154.0	169.1
82.5°	99.1	95.7	96.0	99.7	100.0	100.8	103.2	105.4	108.1	114.6	122.7
85°	52.4	52.4	53.2	53.2	53.9	53.2	55.5	56.4	56.4	60.3	65.0
87.5°	26.1	24.7	25.2	25.8	25.0	25.5	26.0	26.4	26.8	27.3	27.2
90°	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.3	29.2	28.2	24.7
92.5°	47.4	47.7	48.1	48.4	48.7	48.4	47.6	46.8	45.8	45.0	43.1
95°	91.5	91.5	91.5	91.5	91.5	91.0	90.0	88.9	87.9	86.8	84.7
97.5°	140.8	140.9	141.0	141.1	141.2	140.7	139.5	138.3	137.0	135.8	134.3
100°	178.3	177.8	177.3	176.8	176.2	175.6	174.8	174.0	173.3	172.5	171.2
102.5°	216.8	216.9	217.0	217.1	217.2	216.9	216.1	215.3	214.6	213.8	212.1
105°	279.2	278.7	278.2	277.7	277.2	276.9	276.9	276.9	276.9	276.9	274.6
107.5°	344.3	344.6	344.9	345.2	345.5	345.3	344.5	343.6	342.7	341.9	340.9
110°	388.4	388.9	389.4	389.9	390.4	390.2	389.2	388.1	387.1	386.1	385.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	435.4	435.5	435.6	435.7	435.8	435.2	433.9	432.6	431.4	430.1	430.0
115°	499.9	500.1	500.4	500.6	500.9	500.9	500.6	500.4	500.1	499.9	500.4
117.5°	565.3	566.0	566.7	567.5	568.3	568.7	568.7	568.8	568.8	568.9	569.6
120°	611.3	611.9	612.4	612.9	613.4	613.8	614.1	614.3	614.6	614.8	616.1
122.5°	655.4	656.1	656.9	657.6	658.3	659.0	659.7	660.5	661.1	661.8	662.5
125°	721.6	722.7	723.7	724.8	725.8	726.8	727.9	728.9	729.9	731.0	731.5
127.5°	787.6	788.7	789.9	791.1	792.3	793.7	795.2	796.6	798.1	799.5	800.1
130°	830.7	832.5	834.4	836.2	838.0	839.5	840.5	841.5	842.6	843.6	844.4
132.5°	875.8	877.2	878.6	880.0	881.4	882.7	884.0	885.2	886.5	887.8	888.3
135°	945.7	946.2	946.7	947.3	947.8	948.6	949.6	950.7	951.7	952.7	953.0
137.5°	1007.4	1008.5	1009.5	1010.4	1011.4	1012.4	1013.5	1014.6	1015.7	1016.8	1016.1
140°	1047.8	1049.7	1051.5	1053.3	1055.1	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9
142.5°	1089.1	1090.6	1091.9	1093.3	1094.7	1095.6	1095.8	1096.1	1096.3	1096.6	1096.1
145°	1148.7	1149.7	1150.7	1151.9	1152.9	1153.6	1153.8	1154.1	1154.3	1154.6	1153.8
147.5°	1201.7	1203.3	1204.9	1206.4	1208.0	1208.8	1208.8	1208.8	1208.8	1208.8	1208.0
150°	1235.6	1237.1	1238.7	1240.2	1241.8	1242.5	1242.5	1242.5	1242.5	1242.5	1242.0
152.5°	1268.4	1269.7	1271.1	1272.4	1273.8	1274.2	1273.8	1273.4	1273.0	1272.6	1272.3
155°	1312.9	1314.8	1316.7	1318.5	1320.3	1320.7	1319.6	1318.6	1317.6	1316.5	1316.3
157.5°	1353.5	1355.0	1356.5	1358.0	1359.4	1359.6	1358.5	1357.4	1356.3	1355.2	1355.0
160°	1379.9	1380.9	1381.9	1383.0	1384.0	1383.9	1382.6	1381.3	1380.0	1378.7	1378.7
162.5°	1399.6	1401.2	1402.9	1404.5	1406.2	1406.4	1405.1	1403.8	1402.5	1401.2	1401.0
165°	1427.9	1429.8	1431.6	1433.4	1435.2	1435.4	1433.8	1432.3	1430.7	1429.2	1429.2
167.5°	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5	1456.9	1455.3	1453.7	1452.1	1451.9
170°	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7	1469.9	1467.9	1466.1	1464.3	1464.3
172.5°	1473.7	1475.5	1477.3	1479.1	1481.1	1481.2	1479.6	1477.9	1476.3	1474.7	1474.7
175°	1484.3	1486.1	1487.9	1489.8	1491.6	1491.7	1490.2	1488.5	1487.0	1485.4	1485.4
177.5°	1490.0	1491.4	1492.8	1494.3	1495.7	1495.8	1494.6	1493.4	1492.1	1490.9	1490.9
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1688.9	1683.8	1678.8	1669.9	1662.2	1651.4	1648.3	1644.5	1633.1	1623.0	1615.3
5°	1792.1	1773.0	1745.2	1719.9	1699.3	1671.5	1655.6	1638.9	1615.1	1593.7	1576.2
7.5°	1900.1	1862.6	1819.4	1772.7	1729.3	1687.4	1653.6	1623.4	1590.0	1558.4	1533.9
10°	1985.8	1931.8	1871.5	1806.4	1750.8	1696.9	1651.6	1611.9	1569.1	1531.8	1500.9
12.5°	2083.6	2003.6	1920.4	1841.3	1775.6	1700.7	1645.9	1595.5	1546.9	1502.0	1467.2
15°	2199.3	2097.7	1999.2	1890.6	1790.5	1696.9	1631.8	1568.3	1512.0	1465.9	1421.5
17.5°	2304.7	2189.6	2059.9	1927.6	1807.1	1696.0	1604.8	1533.1	1462.6	1406.2	1361.9
20°	2364.4	2233.4	2086.6	1949.2	1815.9	1692.1	1592.2	1506.4	1430.2	1370.7	1320.7
22.5°	2415.8	2262.6	2110.7	1963.9	1815.3	1681.9	1568.6	1480.4	1397.9	1339.6	1286.4
25°	2469.1	2285.8	2133.4	1961.2	1795.3	1657.2	1530.2	1430.2	1347.7	1279.4	1224.7
27.5°	2514.9	2284.2	2103.3	1918.1	1763.8	1625.5	1489.9	1382.6	1294.9	1220.8	1165.3
30°	2545.3	2287.3	2072.2	1889.0	1733.4	1590.5	1458.8	1350.8	1258.8	1183.4	1130.9
32.5°	2564.4	2285.4	2043.7	1848.4	1685.2	1558.7	1425.1	1313.3	1218.8	1144.7	1094.2
35°	2575.5	2271.5	1994.5	1764.3	1607.2	1484.2	1372.3	1256.4	1157.2	1088.1	1031.0
37.5°	2553.2	2242.1	1937.3	1683.3	1511.4	1390.2	1296.1	1197.3	1102.4	1026.4	977.1
40°	2518.3	2223.1	1892.9	1626.3	1445.3	1328.6	1248.5	1151.7	1057.9	985.7	939.7
42.5°	2451.6	2184.3	1844.0	1562.8	1376.7	1260.0	1186.2	1105.3	1016.7	948.9	902.9
45°	2289.0	2100.0	1770.7	1467.5	1275.5	1154.8	1089.7	1031.0	950.8	884.9	845.3
47.5°	2063.3	1973.3	1664.7	1367.1	1169.7	1053.7	986.0	938.8	880.2	827.0	788.9
50°	1906.4	1869.1	1592.9	1298.5	1099.2	985.7	920.7	877.8	835.8	782.5	747.6
52.5°	1725.5	1748.5	1509.1	1227.3	1027.5	915.9	854.6	820.6	782.4	738.7	708.3
55°	1470.7	1554.0	1364.3	1107.9	920.7	814.4	756.4	726.2	704.0	671.5	645.3
57.5°	1232.1	1338.2	1207.8	984.9	815.8	724.0	668.4	635.6	621.3	604.3	583.7
60°	1090.6	1195.3	1096.1	902.4	745.3	657.9	608.7	581.0	566.6	554.8	537.3
62.5°	964.1	1070.2	986.8	818.6	676.0	595.1	552.2	525.1	514.0	507.8	492.9
65°	790.5	881.8	826.2	688.1	577.0	505.5	466.7	447.7	437.3	434.9	425.5
67.5°	643.4	712.9	672.4	570.8	483.3	421.6	388.6	372.4	364.5	363.7	356.5
70°	546.8	611.9	581.0	488.9	413.5	365.1	336.5	322.2	317.5	316.7	312.8
72.5°	471.9	517.4	492.7	415.9	357.6	313.7	292.7	277.8	272.4	273.5	270.8
75°	349.2	383.3	369.1	315.9	269.0	240.4	223.0	213.5	208.7	211.2	207.9
77.5°	251.3	272.9	260.0	223.2	194.3	173.7	160.8	154.9	150.7	150.5	149.1
80°	189.7	202.4	195.2	173.0	149.3	131.8	121.4	117.4	115.1	114.3	113.5
82.5°	135.1	145.9	137.4	122.2	106.0	95.5	89.7	84.4	82.7	83.2	82.4
85°	68.3	72.2	69.1	59.5	53.2	48.4	45.2	42.8	41.3	42.1	40.5
87.5°	27.8	27.8	25.1	22.0	20.2	17.8	17.3	15.5	14.7	15.2	15.1
90°	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2	3.7	6.4	9.0
92.5°	41.2	39.3	37.4	35.4	33.7	31.9	30.2	28.4	30.2	31.9	33.7
95°	82.6	80.6	78.5	76.5	74.7	72.9	71.1	69.3	71.1	72.9	74.7
97.5°	132.9	131.4	129.9	128.4	127.0	125.7	124.3	123.0	124.3	125.7	127.0
100°	169.9	168.5	167.2	165.8	164.3	162.7	161.2	159.6	161.2	162.7	164.3
102.5°	210.4	208.6	206.9	205.6	204.6	203.7	202.8	201.8	202.8	203.7	204.6
105°	272.3	269.8	267.5	266.1	265.6	265.1	264.5	264.0	264.5	265.1	265.6
107.5°	340.0	339.1	338.2	337.5	337.2	336.9	336.6	336.3	336.6	336.9	337.2
110°	385.0	384.5	384.0	383.4	382.9	382.3	381.8	381.3	381.8	382.3	382.9



TEST NUMBER: P332082-840

CATALOG NUMBER: S123DIP-S1165D1195U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	429.9	429.8	429.7	429.5	429.2	428.9	428.6	428.3	428.6	428.9	429.2
115°	500.9	501.4	501.9	501.8	501.0	500.2	499.5	498.7	499.5	500.2	501.0
117.5°	570.2	570.9	571.6	571.6	571.1	570.6	570.1	569.6	570.1	570.6	571.1
120°	617.4	618.7	620.1	620.0	618.3	616.8	615.2	613.7	615.2	616.8	618.3
122.5°	663.1	663.8	664.5	664.3	663.1	662.0	660.8	659.6	660.8	662.0	663.1
125°	732.1	732.6	733.1	733.0	732.2	731.3	730.6	729.8	730.6	731.3	732.2
127.5°	800.6	801.2	801.8	801.2	799.6	797.9	796.3	794.6	796.3	797.9	799.6
130°	845.2	846.0	846.8	846.1	844.0	841.9	839.8	837.8	839.8	841.9	844.0
132.5°	888.9	889.5	890.1	889.3	887.2	885.1	883.0	880.9	883.0	885.1	887.2
135°	953.3	953.5	953.8	953.1	951.6	950.0	948.5	946.8	948.5	950.0	951.6
137.5°	1015.4	1014.8	1014.1	1013.1	1011.8	1010.5	1009.2	1007.9	1009.2	1010.5	1011.8
140°	1056.6	1056.4	1056.1	1055.3	1054.1	1052.8	1051.5	1050.2	1051.5	1052.8	1054.1
142.5°	1095.7	1095.2	1094.7	1093.9	1092.6	1091.3	1089.9	1088.6	1089.9	1091.3	1092.6
145°	1153.0	1152.3	1151.4	1150.7	1150.2	1149.7	1149.2	1148.7	1149.2	1149.7	1150.2
147.5°	1207.3	1206.6	1205.9	1205.1	1204.1	1203.2	1202.2	1201.2	1202.2	1203.2	1204.1
150°	1241.5	1241.0	1240.5	1240.0	1239.4	1238.9	1238.4	1237.9	1238.4	1238.9	1239.4
152.5°	1272.0	1271.6	1271.3	1270.8	1270.1	1269.4	1268.7	1267.9	1268.7	1269.4	1270.1
155°	1316.0	1315.8	1315.5	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
157.5°	1354.8	1354.6	1354.3	1354.4	1354.7	1355.0	1355.3	1355.6	1355.3	1355.0	1354.7
160°	1378.7	1378.7	1378.7	1379.0	1379.5	1380.0	1380.5	1381.0	1380.5	1380.0	1379.5
162.5°	1400.8	1400.6	1400.4	1400.7	1401.4	1402.1	1402.8	1403.5	1402.8	1402.1	1401.4
165°	1429.2	1429.2	1429.2	1429.6	1430.3	1431.1	1431.9	1432.7	1431.9	1431.1	1430.3
167.5°	1451.7	1451.5	1451.3	1451.7	1452.8	1453.8	1454.8	1455.9	1454.8	1453.8	1452.8
170°	1464.3	1464.3	1464.3	1464.8	1465.9	1466.9	1467.9	1469.1	1467.9	1466.9	1465.9
172.5°	1474.7	1474.7	1474.7	1475.2	1476.2	1477.2	1478.3	1479.4	1478.3	1477.2	1476.2
175°	1485.4	1485.4	1485.4	1486.0	1487.0	1488.0	1489.1	1490.2	1489.1	1488.0	1487.0
177.5°	1490.9	1490.9	1490.9	1491.3	1492.1	1493.0	1493.8	1494.6	1493.8	1493.0	1492.1
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1610.8	1606.4	1600.0	1590.5	1582.9	1570.8	1570.8	1572.8	1572.8	1572.2	1570.8
5°	1562.0	1550.0	1535.8	1519.1	1501.7	1484.2	1481.0	1474.6	1469.9	1466.7	1462.8
7.5°	1510.4	1489.2	1468.4	1445.1	1423.8	1406.2	1394.0	1383.8	1377.4	1370.4	1365.2
10°	1475.4	1449.3	1424.6	1400.1	1373.0	1351.6	1338.2	1328.6	1321.5	1315.1	1311.9
12.5°	1434.2	1404.2	1377.1	1353.7	1324.1	1302.1	1289.3	1284.8	1276.4	1263.0	1256.1
15°	1373.8	1346.0	1313.5	1277.8	1263.5	1236.6	1221.4	1214.4	1209.5	1199.2	1196.1
17.5°	1322.2	1285.9	1249.4	1222.7	1196.2	1174.3	1165.9	1157.0	1150.6	1142.3	1139.7
20°	1281.0	1248.5	1215.1	1186.6	1158.7	1135.0	1127.8	1121.5	1115.1	1111.2	1107.9
22.5°	1239.1	1206.6	1178.9	1152.3	1122.6	1107.0	1099.2	1092.3	1087.8	1085.1	1082.0
25°	1180.2	1151.7	1120.6	1096.8	1073.1	1062.7	1057.9	1054.0	1050.9	1046.8	1046.0
27.5°	1127.5	1096.4	1071.3	1049.0	1032.0	1023.4	1018.8	1016.8	1017.5	1019.0	1019.9
30°	1088.1	1059.6	1038.9	1019.9	1004.0	996.0	995.2	995.2	998.5	999.3	1000.8
32.5°	1052.0	1028.4	1007.8	989.4	977.3	971.9	974.9	974.9	977.4	979.6	982.4
35°	999.3	978.6	962.7	946.8	936.5	938.9	940.5	942.1	946.0	950.8	954.0
37.5°	948.9	931.0	914.4	902.1	897.4	901.6	905.4	908.8	913.3	917.1	920.2
40°	912.7	899.2	883.3	872.2	873.8	876.3	879.4	883.3	887.4	889.7	892.9
42.5°	879.1	864.9	852.9	843.6	845.9	848.9	850.8	852.9	857.5	861.8	863.6
45°	827.8	816.7	805.6	800.0	801.6	803.2	804.8	807.2	811.1	814.4	815.1
47.5°	770.2	762.4	755.0	749.5	752.0	751.4	753.6	758.6	759.8	761.7	766.2
50°	733.4	726.2	717.5	715.9	715.9	715.9	716.7	723.1	723.1	726.2	729.4
52.5°	692.8	688.1	682.6	679.7	678.4	678.4	681.8	685.0	686.2	690.6	693.9
55°	632.6	627.8	623.0	620.7	619.0	620.7	627.0	628.5	632.6	634.9	637.3
57.5°	569.9	566.2	562.4	561.1	560.8	562.9	566.3	571.1	572.1	579.4	583.0
60°	528.6	523.0	519.9	519.9	518.3	525.4	523.8	531.8	533.3	538.2	543.7
62.5°	486.0	478.6	477.4	477.4	479.6	481.6	483.8	487.4	491.4	497.5	501.8
65°	417.5	413.5	419.1	418.3	416.7	421.4	421.4	425.5	430.2	435.8	444.4
67.5°	352.5	350.5	350.9	350.9	353.4	356.1	358.3	361.7	367.5	373.3	379.1
70°	308.7	311.1	307.2	310.3	312.8	313.5	315.1	319.8	326.2	330.1	336.5
72.5°	266.2	266.0	266.5	267.8	270.1	271.6	273.2	278.6	285.6	288.9	294.0
75°	204.8	204.0	206.3	206.3	210.4	211.9	213.5	215.9	222.3	227.0	231.0
77.5°	149.6	150.5	150.0	152.7	151.6	151.9	156.8	159.3	159.9	169.3	171.3
80°	112.7	114.3	115.1	115.8	116.6	115.1	120.7	123.0	123.0	128.6	132.5
82.5°	81.0	81.9	84.0	84.7	84.9	86.5	86.9	88.8	90.7	93.0	98.3
85°	40.5	42.8	43.6	42.8	43.6	42.1	44.4	45.2	46.0	46.0	46.0
87.5°	15.0	16.3	16.3	17.6	17.7	19.0	19.2	18.1	18.3	20.4	18.1
90°	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.3	31.3	32.3	33.1
92.5°	35.4	37.4	39.3	41.2	43.1	45.0	45.8	46.8	47.6	48.4	48.7
95°	76.5	78.5	80.6	82.6	84.7	86.8	87.9	88.9	90.0	91.0	91.5
97.5°	128.4	129.9	131.4	132.9	134.3	135.8	137.0	138.3	139.5	140.7	141.2
100°	165.8	167.2	168.5	169.9	171.2	172.5	173.3	174.0	174.8	175.6	176.2
102.5°	205.6	206.9	208.6	210.4	212.1	213.8	214.6	215.3	216.1	216.9	217.2
105°	266.1	267.5	269.8	272.3	274.6	276.9	276.9	276.9	276.9	276.9	277.2
107.5°	337.5	338.2	339.1	340.0	340.9	341.9	342.7	343.6	344.5	345.3	345.5
110°	383.4	384.0	384.5	385.0	385.5	386.1	387.1	388.1	389.2	390.2	390.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	429.5	429.7	429.8	429.9	430.0	430.1	431.4	432.6	433.9	435.2	435.8
115°	501.8	501.9	501.4	500.9	500.4	499.9	500.1	500.4	500.6	500.9	500.9
117.5°	571.6	571.6	570.9	570.2	569.6	568.9	568.8	568.8	568.7	568.7	568.3
120°	620.0	620.1	618.7	617.4	616.1	614.8	614.6	614.3	614.1	613.8	613.4
122.5°	664.3	664.5	663.8	663.1	662.5	661.8	661.1	660.5	659.7	659.0	658.3
125°	733.0	733.1	732.6	732.1	731.5	731.0	729.9	728.9	727.9	726.8	725.8
127.5°	801.2	801.8	801.2	800.6	800.1	799.5	798.1	796.6	795.2	793.7	792.3
130°	846.1	846.8	846.0	845.2	844.4	843.6	842.6	841.5	840.5	839.5	838.0
132.5°	889.3	890.1	889.5	888.9	888.3	887.8	886.5	885.2	884.0	882.7	881.4
135°	953.1	953.8	953.5	953.3	953.0	952.7	951.7	950.7	949.6	948.6	947.8
137.5°	1013.1	1014.1	1014.8	1015.4	1016.1	1016.8	1015.7	1014.6	1013.5	1012.4	1011.4
140°	1055.3	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9	1056.6	1056.4	1056.1	1055.1
142.5°	1093.9	1094.7	1095.2	1095.7	1096.1	1096.6	1096.3	1096.1	1095.8	1095.6	1094.7
145°	1150.7	1151.4	1152.3	1153.0	1153.8	1154.6	1154.3	1154.1	1153.8	1153.6	1152.9
147.5°	1205.1	1205.9	1206.6	1207.3	1208.0	1208.8	1208.8	1208.8	1208.8	1208.8	1208.0
150°	1240.0	1240.5	1241.0	1241.5	1242.0	1242.5	1242.5	1242.5	1242.5	1242.5	1241.8
152.5°	1270.8	1271.3	1271.6	1272.0	1272.3	1272.6	1273.0	1273.4	1273.8	1274.2	1273.8
155°	1315.3	1315.5	1315.8	1316.0	1316.3	1316.5	1317.6	1318.6	1319.6	1320.7	1320.3
157.5°	1354.4	1354.3	1354.6	1354.8	1355.0	1355.2	1356.3	1357.4	1358.5	1359.6	1359.4
160°	1379.0	1378.7	1378.7	1378.7	1378.7	1378.7	1380.0	1381.3	1382.6	1383.9	1384.0
162.5°	1400.7	1400.4	1400.6	1400.8	1401.0	1401.2	1402.5	1403.8	1405.1	1406.4	1406.2
165°	1429.6	1429.2	1429.2	1429.2	1429.2	1429.2	1430.7	1432.3	1433.8	1435.4	1435.2
167.5°	1451.7	1451.3	1451.5	1451.7	1451.9	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5
170°	1464.8	1464.3	1464.3	1464.3	1464.3	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7
172.5°	1475.2	1474.7	1474.7	1474.7	1474.7	1474.7	1476.3	1477.9	1479.6	1481.2	1481.1
175°	1486.0	1485.4	1485.4	1485.4	1485.4	1485.4	1487.0	1488.5	1490.2	1491.7	1491.6
177.5°	1491.3	1490.9	1490.9	1490.9	1490.9	1490.9	1492.1	1493.4	1494.6	1495.8	1495.7
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



TEST NUMBER: P332082-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1566.4	1565.8	1570.2	1567.0	1570.2	1565.8	1566.4	1570.8	1572.2	1572.8	1572.8
5°	1457.9	1460.4	1452.4	1452.4	1452.4	1460.4	1457.9	1462.8	1466.7	1469.9	1474.6
7.5°	1361.5	1358.0	1358.3	1354.0	1358.3	1358.0	1361.5	1365.2	1370.4	1377.4	1383.8
10°	1302.4	1297.7	1296.1	1296.9	1296.1	1297.7	1302.4	1311.9	1315.1	1321.5	1328.6
12.5°	1253.5	1252.5	1242.1	1242.2	1242.1	1252.5	1253.5	1256.1	1263.0	1276.4	1284.8
15°	1196.1	1181.0	1179.4	1184.2	1179.4	1181.0	1196.1	1196.1	1199.2	1209.5	1214.4
17.5°	1138.4	1130.5	1130.9	1128.6	1130.9	1130.5	1138.4	1139.7	1142.3	1150.6	1157.0
20°	1107.9	1103.2	1102.4	1096.8	1102.4	1103.2	1107.9	1107.9	1111.2	1115.1	1121.5
22.5°	1080.1	1078.4	1078.9	1072.8	1078.9	1078.4	1080.1	1082.0	1085.1	1087.8	1092.3
25°	1045.3	1049.2	1046.0	1046.0	1046.0	1049.2	1045.3	1046.0	1046.8	1050.9	1054.0
27.5°	1021.8	1021.6	1020.1	1020.1	1020.1	1021.6	1021.8	1019.9	1019.0	1017.5	1016.8
30°	1004.0	1003.2	1004.8	1004.8	1004.8	1003.2	1004.0	1000.8	999.3	998.5	995.2
32.5°	986.2	987.3	987.6	988.3	987.6	987.3	986.2	982.4	979.6	977.4	974.9
35°	958.8	959.6	961.9	960.4	961.9	959.6	958.8	954.0	950.8	946.0	942.1
37.5°	921.6	925.2	924.4	925.7	924.4	925.2	921.6	920.2	917.1	913.3	908.8
40°	893.6	896.1	895.2	895.2	895.2	896.1	893.6	892.9	889.7	887.4	883.3
42.5°	865.2	866.9	864.7	863.5	864.7	866.9	865.2	863.6	861.8	857.5	852.9
45°	818.3	816.7	819.1	815.9	819.1	816.7	818.3	815.1	814.4	811.1	807.2
47.5°	765.9	767.5	768.1	770.5	768.1	767.5	765.9	766.2	761.7	759.8	758.6
50°	730.9	735.7	735.7	735.0	735.7	735.7	730.9	729.4	726.2	723.1	723.1
52.5°	696.7	698.9	702.1	702.0	702.1	698.9	696.7	693.9	690.6	686.2	685.0
55°	643.7	645.3	646.8	647.6	646.8	645.3	643.7	637.3	634.9	632.6	628.5
57.5°	588.8	588.1	591.9	593.0	591.9	588.1	588.8	583.0	579.4	572.1	571.1
60°	550.0	550.0	556.3	558.8	556.3	550.0	550.0	543.7	538.2	533.3	531.8
62.5°	508.8	511.3	517.7	514.3	517.7	511.3	508.8	501.8	497.5	491.4	487.4
65°	448.4	454.7	453.9	457.2	453.9	454.7	448.4	444.4	435.8	430.2	425.5
67.5°	385.4	389.4	395.1	395.6	395.1	389.4	385.4	379.1	373.3	367.5	361.7
70°	342.8	346.8	350.0	352.3	350.0	346.8	342.8	336.5	330.1	326.2	319.8
72.5°	301.6	303.7	311.2	307.9	311.2	303.7	301.6	294.0	288.9	285.6	278.6
75°	236.5	242.1	246.8	244.5	246.8	242.1	236.5	231.0	227.0	222.3	215.9
77.5°	174.9	180.5	182.7	180.7	182.7	180.5	174.9	171.3	169.3	159.9	159.3
80°	138.1	137.3	142.1	141.3	142.1	137.3	138.1	132.5	128.6	123.0	123.0
82.5°	101.3	100.5	102.7	103.2	102.7	100.5	101.3	98.3	93.0	90.7	88.8
85°	49.2	51.6	48.4	47.7	48.4	51.6	49.2	46.0	46.0	46.0	45.2
87.5°	18.2	18.3	17.8	17.2	17.8	18.3	18.2	18.1	20.4	18.3	18.1
90°	33.6	34.1	34.6	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.3
92.5°	48.4	48.1	47.7	47.4	47.7	48.1	48.4	48.7	48.4	47.6	46.8
95°	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.0	90.0	88.9
97.5°	141.1	141.0	140.9	140.8	140.9	141.0	141.1	141.2	140.7	139.5	138.3
100°	176.8	177.3	177.8	178.3	177.8	177.3	176.8	176.2	175.6	174.8	174.0
102.5°	217.1	217.0	216.9	216.8	216.9	217.0	217.1	217.2	216.9	216.1	215.3
105°	277.7	278.2	278.7	279.2	278.7	278.2	277.7	277.2	276.9	276.9	276.9
107.5°	345.2	344.9	344.6	344.3	344.6	344.9	345.2	345.5	345.3	344.5	343.6
110°	389.9	389.4	388.9	388.4	388.9	389.4	389.9	390.4	390.2	389.2	388.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	435.7	435.6	435.5	435.4	435.5	435.6	435.7	435.8	435.2	433.9	432.6
115°	500.6	500.4	500.1	499.9	500.1	500.4	500.6	500.9	500.9	500.6	500.4
117.5°	567.5	566.7	566.0	565.3	566.0	566.7	567.5	568.3	568.7	568.7	568.8
120°	612.9	612.4	611.9	611.3	611.9	612.4	612.9	613.4	613.8	614.1	614.3
122.5°	657.6	656.9	656.1	655.4	656.1	656.9	657.6	658.3	659.0	659.7	660.5
125°	724.8	723.7	722.7	721.6	722.7	723.7	724.8	725.8	726.8	727.9	728.9
127.5°	791.1	789.9	788.7	787.6	788.7	789.9	791.1	792.3	793.7	795.2	796.6
130°	836.2	834.4	832.5	830.7	832.5	834.4	836.2	838.0	839.5	840.5	841.5
132.5°	880.0	878.6	877.2	875.8	877.2	878.6	880.0	881.4	882.7	884.0	885.2
135°	947.3	946.7	946.2	945.7	946.2	946.7	947.3	947.8	948.6	949.6	950.7
137.5°	1010.4	1009.5	1008.5	1007.4	1008.5	1009.5	1010.4	1011.4	1012.4	1013.5	1014.6
140°	1053.3	1051.5	1049.7	1047.8	1049.7	1051.5	1053.3	1055.1	1056.1	1056.4	1056.6
142.5°	1093.3	1091.9	1090.6	1089.1	1090.6	1091.9	1093.3	1094.7	1095.6	1095.8	1096.1
145°	1151.9	1150.7	1149.7	1148.7	1149.7	1150.7	1151.9	1152.9	1153.6	1153.8	1154.1
147.5°	1206.4	1204.9	1203.3	1201.7	1203.3	1204.9	1206.4	1208.0	1208.8	1208.8	1208.8
150°	1240.2	1238.7	1237.1	1235.6	1237.1	1238.7	1240.2	1241.8	1242.5	1242.5	1242.5
152.5°	1272.4	1271.1	1269.7	1268.4	1269.7	1271.1	1272.4	1273.8	1274.2	1273.8	1273.4
155°	1318.5	1316.7	1314.8	1312.9	1314.8	1316.7	1318.5	1320.3	1320.7	1319.6	1318.6
157.5°	1358.0	1356.5	1355.0	1353.5	1355.0	1356.5	1358.0	1359.4	1359.6	1358.5	1357.4
160°	1383.0	1381.9	1380.9	1379.9	1380.9	1381.9	1383.0	1384.0	1383.9	1382.6	1381.3
162.5°	1404.5	1402.9	1401.2	1399.6	1401.2	1402.9	1404.5	1406.2	1406.4	1405.1	1403.8
165°	1433.4	1431.6	1429.8	1427.9	1429.8	1431.6	1433.4	1435.2	1435.4	1433.8	1432.3
167.5°	1456.9	1455.3	1453.7	1452.1	1453.7	1455.3	1456.9	1458.5	1458.5	1456.9	1455.3
170°	1469.9	1467.9	1466.1	1464.3	1466.1	1467.9	1469.9	1471.7	1471.7	1469.9	1467.9
172.5°	1479.1	1477.3	1475.5	1473.7	1475.5	1477.3	1479.1	1481.1	1481.2	1479.6	1477.9
175°	1489.8	1487.9	1486.1	1484.3	1486.1	1487.9	1489.8	1491.6	1491.7	1490.2	1488.5
177.5°	1494.3	1492.8	1491.4	1490.0	1491.4	1492.8	1494.3	1495.7	1495.8	1494.6	1493.4
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1570.8	1570.8	1582.9	1590.5	1600.0	1606.4	1610.8	1615.3	1623.0	1633.1	1644.5
5°	1481.0	1484.2	1501.7	1519.1	1535.8	1550.0	1562.0	1576.2	1593.7	1615.1	1638.9
7.5°	1394.0	1406.2	1423.8	1445.1	1468.4	1489.2	1510.4	1533.9	1558.4	1590.0	1623.4
10°	1338.2	1351.6	1373.0	1400.1	1424.6	1449.3	1475.4	1500.9	1531.8	1569.1	1611.9
12.5°	1289.3	1302.1	1324.1	1353.7	1377.1	1404.2	1434.2	1467.2	1502.0	1546.9	1595.5
15°	1221.4	1236.6	1263.5	1277.8	1313.5	1346.0	1373.8	1421.5	1465.9	1512.0	1568.3
17.5°	1165.9	1174.3	1196.2	1222.7	1249.4	1285.9	1322.2	1361.9	1406.2	1462.6	1533.1
20°	1127.8	1135.0	1158.7	1186.6	1215.1	1248.5	1281.0	1320.7	1370.7	1430.2	1506.4
22.5°	1099.2	1107.0	1122.6	1152.3	1178.9	1206.6	1239.1	1286.4	1339.6	1397.9	1480.4
25°	1057.9	1062.7	1073.1	1096.8	1120.6	1151.7	1180.2	1224.7	1279.4	1347.7	1430.2
27.5°	1018.8	1023.4	1032.0	1049.0	1071.3	1096.4	1127.5	1165.3	1220.8	1294.9	1382.6
30°	995.2	996.0	1004.0	1019.9	1038.9	1059.6	1088.1	1130.9	1183.4	1258.8	1350.8
32.5°	974.9	971.9	977.3	989.4	1007.8	1028.4	1052.0	1094.2	1144.7	1218.8	1313.3
35°	940.5	938.9	936.5	946.8	962.7	978.6	999.3	1031.0	1088.1	1157.2	1256.4
37.5°	905.4	901.6	897.4	902.1	914.4	931.0	948.9	977.1	1026.4	1102.4	1197.3
40°	879.4	876.3	873.8	872.2	883.3	899.2	912.7	939.7	985.7	1057.9	1151.7
42.5°	850.8	848.9	845.9	843.6	852.9	864.9	879.1	902.9	948.9	1016.7	1105.3
45°	804.8	803.2	801.6	800.0	805.6	816.7	827.8	845.3	884.9	950.8	1031.0
47.5°	753.6	751.4	752.0	749.5	755.0	762.4	770.2	788.9	827.0	880.2	938.8
50°	716.7	715.9	715.9	715.9	717.5	726.2	733.4	747.6	782.5	835.8	877.8
52.5°	681.8	678.4	678.4	679.7	682.6	688.1	692.8	708.3	738.7	782.4	820.6
55°	627.0	620.7	619.0	620.7	623.0	627.8	632.6	645.3	671.5	704.0	726.2
57.5°	566.3	562.9	560.8	561.1	562.4	566.2	569.9	583.7	604.3	621.3	635.6
60°	523.8	525.4	518.3	519.9	519.9	523.0	528.6	537.3	554.8	566.6	581.0
62.5°	483.8	481.6	479.6	477.4	477.4	478.6	486.0	492.9	507.8	514.0	525.1
65°	421.4	421.4	416.7	418.3	419.1	413.5	417.5	425.5	434.9	437.3	447.7
67.5°	358.3	356.1	353.4	350.9	350.9	350.5	352.5	356.5	363.7	364.5	372.4
70°	315.1	313.5	312.8	310.3	307.2	311.1	308.7	312.8	316.7	317.5	322.2
72.5°	273.2	271.6	270.1	267.8	266.5	266.0	266.2	270.8	273.5	272.4	277.8
75°	213.5	211.9	210.4	206.3	206.3	204.0	204.8	207.9	211.2	208.7	213.5
77.5°	156.8	151.9	151.6	152.7	150.0	150.5	149.6	149.1	150.5	150.7	154.9
80°	120.7	115.1	116.6	115.8	115.1	114.3	112.7	113.5	114.3	115.1	117.4
82.5°	86.9	86.5	84.9	84.7	84.0	81.9	81.0	82.4	83.2	82.7	84.4
85°	44.4	42.1	43.6	42.8	43.6	42.8	40.5	40.5	42.1	41.3	42.8
87.5°	19.2	19.0	17.7	17.6	16.3	16.3	15.0	15.1	15.2	14.7	15.5
90°	29.2	28.2	24.7	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2
92.5°	45.8	45.0	43.1	41.2	39.3	37.4	35.4	33.7	31.9	30.2	28.4
95°	87.9	86.8	84.7	82.6	80.6	78.5	76.5	74.7	72.9	71.1	69.3
97.5°	137.0	135.8	134.3	132.9	131.4	129.9	128.4	127.0	125.7	124.3	123.0
100°	173.3	172.5	171.2	169.9	168.5	167.2	165.8	164.3	162.7	161.2	159.6
102.5°	214.6	213.8	212.1	210.4	208.6	206.9	205.6	204.6	203.7	202.8	201.8
105°	276.9	276.9	274.6	272.3	269.8	267.5	266.1	265.6	265.1	264.5	264.0
107.5°	342.7	341.9	340.9	340.0	339.1	338.2	337.5	337.2	336.9	336.6	336.3
110°	387.1	386.1	385.5	385.0	384.5	384.0	383.4	382.9	382.3	381.8	381.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	431.4	430.1	430.0	429.9	429.8	429.7	429.5	429.2	428.9	428.6	428.3
115°	500.1	499.9	500.4	500.9	501.4	501.9	501.8	501.0	500.2	499.5	498.7
117.5°	568.8	568.9	569.6	570.2	570.9	571.6	571.6	571.1	570.6	570.1	569.6
120°	614.6	614.8	616.1	617.4	618.7	620.1	620.0	618.3	616.8	615.2	613.7
122.5°	661.1	661.8	662.5	663.1	663.8	664.5	664.3	663.1	662.0	660.8	659.6
125°	729.9	731.0	731.5	732.1	732.6	733.1	733.0	732.2	731.3	730.6	729.8
127.5°	798.1	799.5	800.1	800.6	801.2	801.8	801.2	799.6	797.9	796.3	794.6
130°	842.6	843.6	844.4	845.2	846.0	846.8	846.1	844.0	841.9	839.8	837.8
132.5°	886.5	887.8	888.3	888.9	889.5	890.1	889.3	887.2	885.1	883.0	880.9
135°	951.7	952.7	953.0	953.3	953.5	953.8	953.1	951.6	950.0	948.5	946.8
137.5°	1015.7	1016.8	1016.1	1015.4	1014.8	1014.1	1013.1	1011.8	1010.5	1009.2	1007.9
140°	1056.9	1057.2	1056.9	1056.6	1056.4	1056.1	1055.3	1054.1	1052.8	1051.5	1050.2
142.5°	1096.3	1096.6	1096.1	1095.7	1095.2	1094.7	1093.9	1092.6	1091.3	1089.9	1088.6
145°	1154.3	1154.6	1153.8	1153.0	1152.3	1151.4	1150.7	1150.2	1149.7	1149.2	1148.7
147.5°	1208.8	1208.8	1208.0	1207.3	1206.6	1205.9	1205.1	1204.1	1203.2	1202.2	1201.2
150°	1242.5	1242.5	1242.0	1241.5	1241.0	1240.5	1240.0	1239.4	1238.9	1238.4	1237.9
152.5°	1273.0	1272.6	1272.3	1272.0	1271.6	1271.3	1270.8	1270.1	1269.4	1268.7	1267.9
155°	1317.6	1316.5	1316.3	1316.0	1315.8	1315.5	1315.3	1315.3	1315.3	1315.3	1315.3
157.5°	1356.3	1355.2	1355.0	1354.8	1354.6	1354.3	1354.4	1354.7	1355.0	1355.3	1355.6
160°	1380.0	1378.7	1378.7	1378.7	1378.7	1378.7	1379.0	1379.5	1380.0	1380.5	1381.0
162.5°	1402.5	1401.2	1401.0	1400.8	1400.6	1400.4	1400.7	1401.4	1402.1	1402.8	1403.5
165°	1430.7	1429.2	1429.2	1429.2	1429.2	1429.2	1429.6	1430.3	1431.1	1431.9	1432.7
167.5°	1453.7	1452.1	1451.9	1451.7	1451.5	1451.3	1451.7	1452.8	1453.8	1454.8	1455.9
170°	1466.1	1464.3	1464.3	1464.3	1464.3	1464.3	1464.8	1465.9	1466.9	1467.9	1469.1
172.5°	1476.3	1474.7	1474.7	1474.7	1474.7	1474.7	1475.2	1476.2	1477.2	1478.3	1479.4
175°	1487.0	1485.4	1485.4	1485.4	1485.4	1485.4	1486.0	1487.0	1488.0	1489.1	1490.2
177.5°	1492.1	1490.9	1490.9	1490.9	1490.9	1490.9	1491.3	1492.1	1493.0	1493.8	1494.6
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1648.3	1651.4	1662.2	1669.9	1678.8	1683.8	1688.9	1692.7	1697.8	1699.1	1717.5
5°	1655.6	1671.5	1699.3	1719.9	1745.2	1773.0	1792.1	1800.9	1823.8	1842.9	1881.0
7.5°	1653.6	1687.4	1729.3	1772.7	1819.4	1862.6	1900.1	1944.5	1976.1	2023.6	2070.4
10°	1651.6	1696.9	1750.8	1806.4	1871.5	1931.8	1985.8	2046.1	2096.1	2161.9	2218.3
12.5°	1645.9	1700.7	1775.6	1841.3	1920.4	2003.6	2083.6	2161.0	2205.3	2315.0	2366.9
15°	1631.8	1696.9	1790.5	1890.6	1999.2	2097.7	2199.3	2280.3	2411.2	2507.2	2568.3
17.5°	1604.8	1696.0	1807.1	1927.6	2059.9	2189.6	2304.7	2427.5	2566.5	2682.6	2806.4
20°	1592.2	1692.1	1815.9	1949.2	2086.6	2233.4	2364.4	2511.9	2663.6	2777.8	2936.6
22.5°	1568.6	1681.9	1815.3	1963.9	2110.7	2262.6	2415.8	2564.7	2739.8	2897.2	3048.4
25°	1530.2	1657.2	1795.3	1961.2	2133.4	2285.8	2469.1	2666.8	2849.3	3051.7	3202.5
27.5°	1489.9	1625.5	1763.8	1918.1	2103.3	2284.2	2514.9	2738.1	2961.3	3136.1	3247.7
30°	1458.8	1590.5	1733.4	1889.0	2072.2	2287.3	2545.3	2788.9	3006.5	3156.4	3219.1
32.5°	1425.1	1558.7	1685.2	1848.4	2043.7	2285.4	2564.4	2818.8	3009.0	3108.9	3096.7
35°	1372.3	1484.2	1607.2	1764.3	1994.5	2271.5	2575.5	2821.5	2938.2	2916.8	2754.8
37.5°	1296.1	1390.2	1511.4	1683.3	1937.3	2242.1	2553.2	2737.8	2730.3	2555.8	2321.2
40°	1248.5	1328.6	1445.3	1626.3	1892.9	2223.1	2518.3	2638.2	2536.6	2292.9	2012.0
42.5°	1186.2	1260.0	1376.7	1562.8	1844.0	2184.3	2451.6	2486.4	2287.6	2007.2	1749.7
45°	1089.7	1154.8	1275.5	1467.5	1770.7	2100.0	2289.0	2204.0	1936.5	1646.9	1450.9
47.5°	986.0	1053.7	1169.7	1367.1	1664.7	1973.3	2063.3	1882.6	1608.0	1373.0	1193.1
50°	920.7	985.7	1099.2	1298.5	1592.9	1869.1	1906.4	1673.0	1420.7	1214.4	1066.7
52.5°	854.6	915.9	1027.5	1227.3	1509.1	1748.5	1725.5	1487.6	1255.6	1079.7	963.8
55°	756.4	814.4	920.7	1107.9	1364.3	1554.0	1470.7	1243.6	1051.6	915.1	827.0
57.5°	668.4	724.0	815.8	984.9	1207.8	1338.2	1232.1	1040.9	888.1	783.0	717.3
60°	608.7	657.9	745.3	902.4	1096.1	1195.3	1090.6	921.5	792.8	708.7	650.1
62.5°	552.2	595.1	676.0	818.6	986.8	1070.2	964.1	821.1	711.7	637.0	587.1
65°	466.7	505.5	577.0	688.1	826.2	881.8	790.5	674.6	589.7	534.1	500.8
67.5°	388.6	421.6	483.3	570.8	672.4	712.9	643.4	553.7	489.7	445.0	418.6
70°	336.5	365.1	413.5	488.9	581.0	611.9	546.8	473.0	426.2	390.5	365.9
72.5°	292.7	313.7	357.6	415.9	492.7	517.4	471.9	407.0	363.3	336.5	317.0
75°	223.0	240.4	269.0	315.9	369.1	383.3	349.2	308.7	279.3	260.3	245.2
77.5°	160.8	173.7	194.3	223.2	260.0	272.9	251.3	224.3	202.9	190.0	181.6
80°	121.4	131.8	149.3	173.0	195.2	202.4	189.7	169.1	154.0	146.8	139.7
82.5°	89.7	95.5	106.0	122.2	137.4	145.9	135.1	122.7	114.6	108.1	105.4
85°	45.2	48.4	53.2	59.5	69.1	72.2	68.3	65.0	60.3	56.4	56.4
87.5°	17.3	17.8	20.2	22.0	25.1	27.8	27.8	27.2	27.3	26.8	26.4
90°	3.7	6.4	9.0	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.3
92.5°	30.2	31.9	33.7	35.4	37.4	39.3	41.2	43.1	45.0	45.8	46.8
95°	71.1	72.9	74.7	76.5	78.5	80.6	82.6	84.7	86.8	87.9	88.9
97.5°	124.3	125.7	127.0	128.4	129.9	131.4	132.9	134.3	135.8	137.0	138.3
100°	161.2	162.7	164.3	165.8	167.2	168.5	169.9	171.2	172.5	173.3	174.0
102.5°	202.8	203.7	204.6	205.6	206.9	208.6	210.4	212.1	213.8	214.6	215.3
105°	264.5	265.1	265.6	266.1	267.5	269.8	272.3	274.6	276.9	276.9	276.9
107.5°	336.6	336.9	337.2	337.5	338.2	339.1	340.0	340.9	341.9	342.7	343.6
110°	381.8	382.3	382.9	383.4	384.0	384.5	385.0	385.5	386.1	387.1	388.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	428.6	428.9	429.2	429.5	429.7	429.8	429.9	430.0	430.1	431.4	432.6
115°	499.5	500.2	501.0	501.8	501.9	501.4	500.9	500.4	499.9	500.1	500.4
117.5°	570.1	570.6	571.1	571.6	571.6	570.9	570.2	569.6	568.9	568.8	568.8
120°	615.2	616.8	618.3	620.0	620.1	618.7	617.4	616.1	614.8	614.6	614.3
122.5°	660.8	662.0	663.1	664.3	664.5	663.8	663.1	662.5	661.8	661.1	660.5
125°	730.6	731.3	732.2	733.0	733.1	732.6	732.1	731.5	731.0	729.9	728.9
127.5°	796.3	797.9	799.6	801.2	801.8	801.2	800.6	800.1	799.5	798.1	796.6
130°	839.8	841.9	844.0	846.1	846.8	846.0	845.2	844.4	843.6	842.6	841.5
132.5°	883.0	885.1	887.2	889.3	890.1	889.5	888.9	888.3	887.8	886.5	885.2
135°	948.5	950.0	951.6	953.1	953.8	953.5	953.3	953.0	952.7	951.7	950.7
137.5°	1009.2	1010.5	1011.8	1013.1	1014.1	1014.8	1015.4	1016.1	1016.8	1015.7	1014.6
140°	1051.5	1052.8	1054.1	1055.3	1056.1	1056.4	1056.6	1056.9	1057.2	1056.9	1056.6
142.5°	1089.9	1091.3	1092.6	1093.9	1094.7	1095.2	1095.7	1096.1	1096.6	1096.3	1096.1
145°	1149.2	1149.7	1150.2	1150.7	1151.4	1152.3	1153.0	1153.8	1154.6	1154.3	1154.1
147.5°	1202.2	1203.2	1204.1	1205.1	1205.9	1206.6	1207.3	1208.0	1208.8	1208.8	1208.8
150°	1238.4	1238.9	1239.4	1240.0	1240.5	1241.0	1241.5	1242.0	1242.5	1242.5	1242.5
152.5°	1268.7	1269.4	1270.1	1270.8	1271.3	1271.6	1272.0	1272.3	1272.6	1273.0	1273.4
155°	1315.3	1315.3	1315.3	1315.3	1315.5	1315.8	1316.0	1316.3	1316.5	1317.6	1318.6
157.5°	1355.3	1355.0	1354.7	1354.4	1354.3	1354.6	1354.8	1355.0	1355.2	1356.3	1357.4
160°	1380.5	1380.0	1379.5	1379.0	1378.7	1378.7	1378.7	1378.7	1378.7	1380.0	1381.3
162.5°	1402.8	1402.1	1401.4	1400.7	1400.4	1400.6	1400.8	1401.0	1401.2	1402.5	1403.8
165°	1431.9	1431.1	1430.3	1429.6	1429.2	1429.2	1429.2	1429.2	1429.2	1430.7	1432.3
167.5°	1454.8	1453.8	1452.8	1451.7	1451.3	1451.5	1451.7	1451.9	1452.1	1453.7	1455.3
170°	1467.9	1466.9	1465.9	1464.8	1464.3	1464.3	1464.3	1464.3	1464.3	1466.1	1467.9
172.5°	1478.3	1477.2	1476.2	1475.2	1474.7	1474.7	1474.7	1474.7	1474.7	1476.3	1477.9
175°	1489.1	1488.0	1487.0	1486.0	1485.4	1485.4	1485.4	1485.4	1485.4	1487.0	1488.5
177.5°	1493.8	1493.0	1492.1	1491.3	1490.9	1490.9	1490.9	1490.9	1490.9	1492.1	1493.4
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1723.8	1724.4	1731.5	1736.6	1734.0	1737.2	1738.5
5°	1883.4	1912.0	1927.0	1938.1	1938.9	1939.7	1946.1
7.5°	2109.6	2140.2	2162.6	2196.6	2206.8	2218.3	2214.9
10°	2274.7	2319.9	2358.8	2379.4	2401.7	2434.2	2408.0
12.5°	2428.9	2509.1	2568.3	2600.4	2621.3	2627.9	2615.0
15°	2683.4	2788.1	2844.5	2843.0	2914.4	2945.4	2896.9
17.5°	2916.8	3013.4	3090.9	3130.6	3190.1	3203.3	3197.2
20°	3059.6	3165.2	3225.5	3293.8	3324.7	3352.4	3357.2
22.5°	3182.8	3277.5	3342.4	3399.1	3425.1	3438.2	3446.2
25°	3309.6	3384.3	3423.1	3442.9	3450.1	3448.5	3438.2
27.5°	3300.8	3306.6	3263.8	3221.7	3184.1	3141.7	3127.0
30°	3215.2	3148.5	3029.5	2962.0	2862.8	2784.2	2815.9
32.5°	2989.8	2857.1	2723.4	2576.0	2453.9	2419.1	2384.2
35°	2551.6	2318.3	2181.8	2023.1	1959.5	1896.1	1852.4
37.5°	2064.4	1883.9	1721.9	1618.1	1554.5	1514.3	1492.8
40°	1784.9	1622.2	1488.9	1404.8	1356.3	1311.1	1304.8
42.5°	1562.2	1410.9	1310.5	1243.5	1197.0	1177.8	1163.9
45°	1279.4	1173.9	1106.4	1058.7	1027.8	1015.9	1000.1
47.5°	1082.9	1008.2	957.7	925.2	901.9	893.0	891.8
50°	973.0	911.1	873.8	848.4	830.2	827.0	814.4
52.5°	890.5	836.9	807.8	785.6	772.4	763.6	759.7
55°	773.1	737.3	711.1	698.4	688.1	679.3	679.3
57.5°	676.4	646.5	629.2	618.4	615.2	609.0	605.1
60°	616.7	591.3	577.8	568.3	561.9	562.7	555.5
62.5°	558.3	541.8	528.9	519.4	511.8	511.9	512.4
65°	475.4	462.7	453.2	450.0	445.2	439.7	441.3
67.5°	402.8	390.9	383.5	378.1	376.5	373.5	378.1
70°	350.8	342.0	336.5	331.7	330.1	330.9	335.0
72.5°	303.2	297.0	293.4	291.1	287.6	287.8	290.4
75°	238.1	233.4	230.1	227.8	227.0	227.0	227.0
77.5°	174.9	173.8	172.4	168.8	169.1	170.0	170.2
80°	138.1	135.7	134.9	133.3	131.0	129.4	133.3
82.5°	103.2	100.8	100.0	99.7	96.0	95.7	99.1
85°	55.5	53.2	53.9	53.2	53.2	52.4	52.4
87.5°	26.0	25.5	25.0	25.8	25.2	24.7	26.1
90°	31.3	32.3	33.1	33.6	34.1	34.6	35.2
92.5°	47.6	48.4	48.7	48.4	48.1	47.7	47.4
95°	90.0	91.0	91.5	91.5	91.5	91.5	91.5
97.5°	139.5	140.7	141.2	141.1	141.0	140.9	140.8
100°	174.8	175.6	176.2	176.8	177.3	177.8	178.3
102.5°	216.1	216.9	217.2	217.1	217.0	216.9	216.8
105°	276.9	276.9	277.2	277.7	278.2	278.7	279.2
107.5°	344.5	345.3	345.5	345.2	344.9	344.6	344.3
110°	389.2	390.2	390.4	389.9	389.4	388.9	388.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	433.9	435.2	435.8	435.7	435.6	435.5	435.4
115°	500.6	500.9	500.9	500.6	500.4	500.1	499.9
117.5°	568.7	568.7	568.3	567.5	566.7	566.0	565.3
120°	614.1	613.8	613.4	612.9	612.4	611.9	611.3
122.5°	659.7	659.0	658.3	657.6	656.9	656.1	655.4
125°	727.9	726.8	725.8	724.8	723.7	722.7	721.6
127.5°	795.2	793.7	792.3	791.1	789.9	788.7	787.6
130°	840.5	839.5	838.0	836.2	834.4	832.5	830.7
132.5°	884.0	882.7	881.4	880.0	878.6	877.2	875.8
135°	949.6	948.6	947.8	947.3	946.7	946.2	945.7
137.5°	1013.5	1012.4	1011.4	1010.4	1009.5	1008.5	1007.4
140°	1056.4	1056.1	1055.1	1053.3	1051.5	1049.7	1047.8
142.5°	1095.8	1095.6	1094.7	1093.3	1091.9	1090.6	1089.1
145°	1153.8	1153.6	1152.9	1151.9	1150.7	1149.7	1148.7
147.5°	1208.8	1208.8	1208.0	1206.4	1204.9	1203.3	1201.7
150°	1242.5	1242.5	1241.8	1240.2	1238.7	1237.1	1235.6
152.5°	1273.8	1274.2	1273.8	1272.4	1271.1	1269.7	1268.4
155°	1319.6	1320.7	1320.3	1318.5	1316.7	1314.8	1312.9
157.5°	1358.5	1359.6	1359.4	1358.0	1356.5	1355.0	1353.5
160°	1382.6	1383.9	1384.0	1383.0	1381.9	1380.9	1379.9
162.5°	1405.1	1406.4	1406.2	1404.5	1402.9	1401.2	1399.6
165°	1433.8	1435.4	1435.2	1433.4	1431.6	1429.8	1427.9
167.5°	1456.9	1458.5	1458.5	1456.9	1455.3	1453.7	1452.1
170°	1469.9	1471.7	1471.7	1469.9	1467.9	1466.1	1464.3
172.5°	1479.6	1481.2	1481.1	1479.1	1477.3	1475.5	1473.7
175°	1490.2	1491.7	1491.6	1489.8	1487.9	1486.1	1484.3
177.5°	1494.6	1495.8	1495.7	1494.3	1492.8	1491.4	1490.0
180°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7

(END OF REPORT)