

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: P331759

Luminaire Tested: **SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A**

Issue Date: 10/7/2019

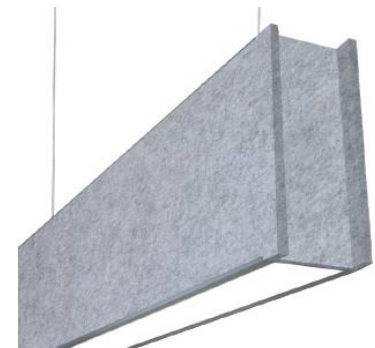
Test Information

Test Method: LM-79-08
Report Number: P331759
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8120.4 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

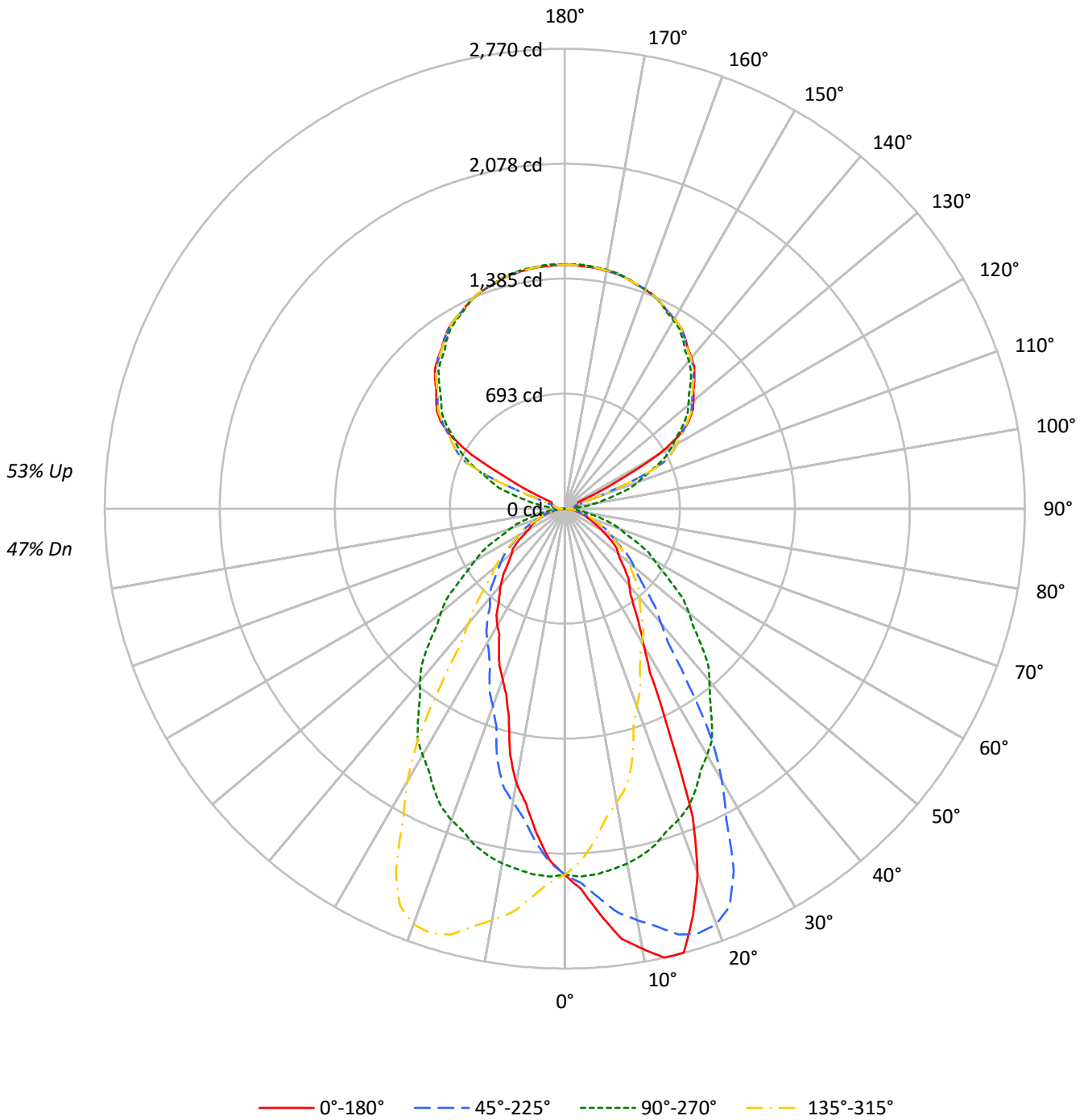
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47				47
1	98	94	90	87	90	86	83	81	73	70	68	60	58	57	48	47	46	41				41
2	90	83	77	72	82	76	72	67	65	61	58	54	51	49	43	42	40	36				36
3	82	73	67	61	76	68	62	57	58	53	50	48	45	42	39	37	35	31				31
4	76	66	58	52	70	61	54	49	52	47	43	43	40	37	36	33	31	27				27
5	70	59	51	46	64	55	48	43	47	42	38	39	36	33	33	30	28	24				24
6	65	53	45	40	59	49	43	38	42	37	33	36	32	29	30	27	25	22				22
7	60	48	41	35	55	45	38	34	39	34	30	33	29	26	28	25	22	20				20
8	56	44	37	32	51	41	35	30	36	30	27	30	26	24	26	23	20	18				18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	24	21	19	17				17
10	49	37	30	26	45	35	29	25	30	25	22	26	22	20	22	19	17	15				15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35608	35608	35608	35608
5°	39768	35832	31770	35832
10°	44124	35580	27539	35580
15°	46292	35059	21698	35059
20°	40132	34287	18777	34287
25°	26320	33228	16764	33228
30°	17715	31946	15172	31946
35°	14349	30328	13685	30328
40°	12760	28572	12663	28572
45°	11549	26510	11303	26510
50°	10510	24465	10472	24465
55°	9880	22196	9751	22196
60°	8263	20118	8167	20118
65°	6968	18269	7904	18269
70°	6439	16315	7454	16315
75°	6026	14198	6881	14198
80°	5560	11688	6127	11688
85°	5113	9226	5391	9226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	2.6
10°-20°	582.5	7.2
20°-30°	750.7	9.2
30°-40°	713.4	8.8
40°-50°	611.1	7.5
50°-60°	465.4	5.7
60°-70°	294.2	3.6
70°-80°	146.9	1.8
80°-90°	41.9	0.5
90°-100°	49.0	0.6
100°-110°	179.7	2.2
110°-120°	480.4	5.9
120°-130°	793.0	9.8
130°-140°	843.3	10.4
140°-150°	783.8	9.7
150°-160°	630.2	7.8
160°-170°	406.1	5.0
170°-180°	139.8	1.7
0°-30°	1542.3	19.0
0°-40°	2255.7	27.8
0°-60°	3332.1	41.0
0°-90°	3815.1	47.0
90°-120°	709.1	8.7
90°-150°	3129.2	38.5
90°-180°	4305.0	53.0
0°-180°	8120.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2205	2205	2205	2205	2205	
5°	2454	2211	1960	2211	2454	242
15°	2769	2097	1298	2097	2769	747
25°	1477	1865	941	1865	1477	701
35°	728	1539	694	1539	728	466
45°	506	1161	495	1161	506	391
55°	351	788	346	788	351	308
65°	182	478	207	478	182	186
75°	97	228	110	228	97	102
85°	28	50	29	50	28	30
90°	29	1	29	1	29	14
95°	46	69	46	69	46	43
105°	81	323	81	323	81	84
115°	87	611	87	611	87	218
125°	909	864	909	864	909	786
135°	1104	1069	1104	1069	1104	851
145°	1260	1241	1260	1241	1260	788
155°	1367	1366	1367	1366	1367	631
165°	1436	1439	1436	1439	1436	405
175°	1464	1472	1464	1472	1464	139
180°	1469	1469	1469	1469	1469	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2294.9	2296.8	2298.6	2294.3	2294.3	2290.6	2282.7	2276.5	2259.4	2256.9	2256.9
5°	2453.7	2452.2	2455.2	2445.3	2431.5	2428.4	2413.9	2394.7	2374.8	2352.6	2348.0
7.5°	2611.6	2609.3	2603.1	2601.5	2590.9	2567.7	2544.3	2519.3	2486.2	2453.9	2437.6
10°	2691.3	2716.6	2701.2	2674.4	2679.8	2643.8	2624.6	2591.7	2564.1	2515.8	2505.1
12.5°	2769.7	2779.7	2774.8	2759.6	2752.7	2727.7	2701.8	2673.2	2622.3	2578.9	2541.2
15°	2769.4	2784.0	2787.8	2783.2	2787.1	2785.5	2771.7	2748.0	2703.5	2656.0	2614.6
17.5°	2565.0	2575.1	2600.2	2617.2	2638.7	2684.1	2706.4	2715.2	2708.6	2681.5	2652.3
20°	2335.7	2318.8	2389.3	2425.4	2456.0	2532.6	2598.5	2623.8	2664.4	2663.7	2656.0
22.5°	2010.8	2014.8	2081.6	2124.4	2213.9	2290.5	2365.6	2460.8	2539.4	2591.3	2621.7
25°	1477.4	1506.6	1573.2	1631.5	1731.1	1873.6	2003.1	2153.3	2295.1	2407.0	2513.5
27.5°	1109.6	1111.8	1164.6	1218.4	1277.6	1394.4	1557.4	1736.8	1938.9	2105.7	2297.5
30°	950.2	945.6	967.8	1000.8	1051.4	1141.8	1264.4	1440.7	1642.2	1893.5	2117.3
32.5°	837.4	837.7	854.4	878.8	920.8	981.8	1065.8	1208.9	1399.4	1646.5	1908.9
35°	728.0	727.2	739.5	757.1	774.7	813.8	871.3	946.4	1077.4	1308.1	1576.3
37.5°	649.5	652.9	658.9	669.9	689.4	711.1	745.6	796.0	889.4	1025.8	1251.2
40°	605.4	606.9	615.3	624.5	636.0	652.9	681.2	721.9	790.1	898.9	1063.6
42.5°	564.9	566.5	572.4	581.0	590.1	606.9	630.4	665.5	720.8	805.7	941.6
45°	505.8	505.8	511.1	515.0	524.9	540.2	559.4	588.5	626.8	689.7	780.1
47.5°	450.3	450.4	454.0	460.6	466.8	478.8	497.6	521.4	549.3	597.9	675.1
50°	418.4	419.2	421.5	426.8	430.7	441.4	456.0	476.6	505.8	543.3	607.7
52.5°	392.7	392.2	395.1	397.4	400.0	407.7	418.6	436.8	462.8	495.5	548.8
55°	351.0	347.9	352.5	356.3	358.6	361.7	367.8	379.3	401.5	429.1	469.0
57.5°	298.9	297.6	300.9	304.4	311.6	319.9	325.1	332.4	343.9	363.7	403.2
60°	255.9	255.9	262.8	265.1	273.6	284.3	295.0	301.2	312.7	325.7	354.8
62.5°	217.9	218.6	221.8	224.1	228.8	242.0	257.0	270.5	281.4	293.8	313.1
65°	182.4	183.9	183.9	185.4	188.5	191.6	197.7	208.4	227.6	245.2	259.8
67.5°	154.8	155.3	155.7	157.2	158.0	161.4	163.8	168.6	173.0	189.7	207.8
70°	136.4	138.7	137.9	139.5	140.2	141.8	144.8	147.1	154.0	157.9	168.6
72.5°	119.2	120.9	120.8	121.7	123.7	124.0	126.4	128.7	133.2	136.4	142.2
75°	96.6	95.8	96.6	98.1	98.9	99.6	99.6	102.7	105.0	108.0	111.9
77.5°	74.5	75.3	75.1	75.3	75.4	76.8	76.6	78.0	80.3	81.8	83.7
80°	59.8	60.5	59.8	60.5	61.3	62.1	61.3	62.1	64.4	65.9	65.9
82.5°	46.3	46.4	46.9	47.1	47.2	47.4	48.4	48.6	50.3	50.0	50.6
85°	27.6	26.8	26.8	26.8	27.6	28.4	27.6	27.6	28.4	28.4	28.4
87.5°	15.5	16.1	16.0	15.9	15.8	15.6	15.4	15.8	14.9	15.3	14.3
90°	28.7	28.2	27.8	27.3	26.8	26.0	24.8	23.6	22.4	21.3	19.4
92.5°	28.7	28.4	28.1	27.9	27.6	27.1	26.5	25.9	25.3	24.7	23.7
95°	45.7	45.9	46.2	46.4	46.7	46.2	45.0	43.8	42.6	41.5	39.8
97.5°	61.0	60.7	60.5	60.2	59.9	59.3	58.3	57.4	56.4	55.5	51.7
100°	71.2	70.8	70.3	69.8	69.3	68.2	66.3	64.4	62.5	60.6	56.6
102.5°	76.3	75.7	75.0	74.3	73.7	72.1	69.7	67.2	64.8	62.3	95.9
105°	80.8	79.8	78.9	78.0	77.0	75.2	72.6	70.0	67.4	64.8	129.3
107.5°	83.1	82.2	81.2	80.3	79.4	80.2	82.8	85.5	88.1	90.8	168.1
110°	84.0	83.0	82.1	81.1	80.2	91.5	115.2	138.8	162.4	186.0	254.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	84.8	84.1	83.3	82.6	81.8	124.5	210.7	296.9	383.1	469.2	486.1
115°	87.2	104.2	121.2	138.2	155.2	218.4	327.8	437.1	546.5	655.9	650.0
117.5°	355.9	411.8	467.7	523.6	579.5	620.7	647.1	673.6	700.0	726.5	722.4
120°	648.5	680.3	712.2	744.1	776.0	790.6	787.7	784.9	782.0	779.2	775.0
122.5°	809.2	815.4	821.6	827.8	833.9	836.2	834.5	832.8	831.1	829.4	824.8
125°	908.9	908.2	907.5	906.8	906.1	904.9	903.2	901.6	899.9	898.3	893.8
127.5°	971.8	971.7	971.6	971.4	971.3	970.0	967.6	965.2	962.8	960.4	957.0
130°	1011.0	1011.2	1011.4	1011.7	1011.9	1010.7	1008.1	1005.5	1002.9	1000.3	997.7
132.5°	1049.2	1049.5	1049.7	1049.9	1050.2	1049.2	1047.0	1044.7	1042.5	1040.3	1037.7
135°	1104.5	1105.0	1105.4	1105.9	1106.4	1105.4	1103.1	1100.7	1098.4	1096.0	1093.9
137.5°	1154.9	1155.7	1156.5	1157.3	1158.1	1157.3	1155.0	1152.7	1150.4	1148.1	1145.7
140°	1186.4	1187.5	1188.7	1189.9	1191.1	1190.6	1188.5	1186.4	1184.2	1182.1	1179.5
142.5°	1217.0	1218.2	1219.3	1220.5	1221.7	1221.3	1219.4	1217.4	1215.5	1213.6	1210.6
145°	1259.7	1260.9	1262.1	1263.3	1264.4	1264.2	1262.5	1260.9	1259.2	1257.6	1253.6
147.5°	1297.3	1298.3	1299.3	1300.3	1301.3	1301.2	1300.0	1298.7	1297.5	1296.3	1292.3
150°	1320.3	1321.5	1322.7	1323.8	1325.0	1324.9	1323.5	1322.1	1320.7	1319.2	1315.5
152.5°	1339.9	1341.4	1343.0	1344.5	1346.1	1346.2	1344.8	1343.3	1341.9	1340.5	1336.9
155°	1367.1	1369.0	1370.9	1372.7	1374.6	1374.9	1373.5	1372.0	1370.6	1369.2	1366.4
157.5°	1391.9	1393.8	1395.6	1397.5	1399.3	1399.4	1397.8	1396.2	1394.6	1393.0	1391.0
160°	1406.4	1408.1	1409.7	1411.4	1413.0	1413.1	1411.7	1410.3	1408.9	1407.5	1406.1
162.5°	1418.3	1420.3	1422.4	1424.4	1426.4	1426.7	1425.0	1423.4	1421.8	1420.2	1419.0
165°	1436.2	1437.8	1439.5	1441.1	1442.8	1442.8	1441.1	1439.5	1437.8	1436.2	1435.5
167.5°	1447.4	1449.6	1451.7	1453.8	1455.9	1456.2	1454.5	1452.9	1451.2	1449.6	1448.9
170°	1454.2	1456.4	1458.5	1460.6	1462.7	1463.0	1461.3	1459.7	1458.0	1456.4	1455.9
172.5°	1459.3	1461.5	1463.6	1465.7	1467.9	1468.1	1466.4	1464.8	1463.1	1461.5	1461.0
175°	1463.8	1466.2	1468.5	1470.9	1473.3	1473.6	1472.0	1470.3	1468.7	1467.0	1466.5
177.5°	1466.6	1468.3	1470.0	1471.7	1473.4	1473.6	1472.2	1470.9	1469.6	1468.3	1468.1
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2258.2	2253.2	2249.0	2237.9	2232.4	2220.1	2218.3	2217.7	2201.8	2186.4	2182.1
5°	2335.7	2323.4	2305.1	2283.6	2261.4	2238.4	2223.1	2210.8	2180.1	2151.0	2134.2
7.5°	2413.9	2387.5	2355.8	2315.2	2281.3	2243.3	2215.1	2189.8	2146.3	2104.6	2076.5
10°	2472.1	2429.2	2387.0	2331.1	2287.4	2244.5	2204.7	2170.2	2121.1	2066.0	2026.9
12.5°	2508.3	2461.1	2403.0	2348.3	2291.7	2237.2	2183.8	2139.5	2081.9	2024.9	1978.5
15°	2557.2	2506.6	2436.1	2357.9	2285.1	2213.9	2152.6	2097.4	2022.3	1954.1	1897.4
17.5°	2597.2	2527.6	2451.9	2361.5	2277.2	2186.6	2107.7	2037.2	1953.6	1871.3	1804.5
20°	2610.0	2541.1	2453.7	2363.3	2263.7	2157.2	2072.1	1995.5	1905.8	1816.1	1739.5
22.5°	2602.1	2548.4	2451.3	2343.1	2241.0	2129.6	2033.5	1944.6	1845.1	1753.6	1664.7
25°	2548.0	2529.6	2437.6	2319.6	2203.1	2073.6	1962.5	1865.2	1751.8	1653.7	1557.1
27.5°	2421.8	2461.5	2404.5	2278.8	2149.3	2010.5	1885.6	1774.8	1657.1	1546.7	1450.5
30°	2300.5	2391.6	2367.1	2250.6	2105.8	1969.4	1829.2	1713.5	1587.8	1474.4	1379.4
32.5°	2134.3	2285.0	2308.9	2211.4	2061.7	1911.8	1764.8	1649.7	1518.5	1399.0	1306.4
35°	1869.8	2095.1	2198.5	2136.5	1986.3	1824.6	1672.8	1538.7	1406.9	1288.9	1197.0
37.5°	1554.2	1861.1	2033.5	2037.9	1900.0	1731.9	1566.6	1433.5	1298.6	1182.7	1083.3
40°	1349.5	1682.0	1906.6	1956.4	1839.9	1658.3	1491.2	1355.6	1223.8	1110.4	996.2
42.5°	1165.6	1496.9	1772.9	1859.5	1767.0	1586.6	1418.9	1277.1	1149.0	1041.7	925.1
45°	942.6	1232.2	1536.4	1691.2	1639.9	1472.8	1295.8	1161.0	1040.6	947.9	836.0
47.5°	795.1	999.3	1293.7	1503.0	1502.1	1349.6	1175.5	1046.3	934.7	847.8	757.3
50°	711.1	888.9	1138.0	1375.5	1395.4	1267.5	1101.9	974.0	869.8	778.6	705.8
52.5°	635.7	782.2	1006.2	1233.9	1290.6	1179.8	1019.2	901.0	799.9	716.0	653.7
55°	537.2	650.6	820.7	1033.7	1119.6	1041.4	898.9	788.5	706.5	636.0	582.4
57.5°	454.4	539.5	676.0	847.5	947.5	898.3	780.7	691.1	620.9	557.1	514.8
60°	402.3	472.0	587.8	731.1	841.4	806.9	706.5	623.0	563.2	508.1	468.2
62.5°	353.3	413.2	512.4	628.7	729.8	715.6	633.6	563.5	511.1	460.9	427.1
65°	284.3	328.0	405.4	496.6	577.8	584.7	525.7	478.2	431.4	391.6	361.7
67.5°	226.4	254.9	309.4	386.2	447.1	468.8	432.8	396.5	359.4	328.6	302.7
70°	190.8	213.8	253.6	315.7	371.7	394.6	374.0	345.6	313.4	288.1	265.9
72.5°	154.6	177.0	206.4	252.0	299.9	324.8	317.6	297.2	271.1	250.1	229.1
75°	116.5	123.4	143.3	174.0	211.5	233.0	238.3	227.6	206.9	190.8	178.5
77.5°	86.1	90.3	99.8	115.9	140.4	159.5	167.4	166.1	151.9	142.5	131.0
80°	69.0	71.3	75.9	82.8	101.2	120.3	125.7	125.7	115.7	111.9	100.4
82.5°	52.4	54.1	56.9	60.7	69.3	86.0	92.0	93.2	86.9	81.8	72.8
85°	29.9	29.1	30.7	33.0	34.5	39.1	48.3	49.8	48.3	42.1	39.8
87.5°	13.9	14.2	13.8	12.7	12.8	12.9	15.4	18.0	16.1	14.7	14.0
90°	17.5	15.6	13.7	11.5	8.9	6.3	3.7	1.1	3.7	6.3	8.9
92.5°	22.8	21.8	20.9	20.5	20.8	21.0	21.2	21.5	21.2	21.0	20.8
95°	38.2	36.5	34.8	37.9	45.7	53.5	61.3	69.1	61.3	53.5	45.7
97.5°	47.8	44.0	40.2	49.3	71.2	93.2	115.2	137.1	115.2	93.2	71.2
100°	52.6	48.5	44.5	58.7	91.1	123.4	155.8	188.2	155.8	123.4	91.1
102.5°	129.5	163.1	196.7	216.9	223.7	230.6	237.4	244.3	237.4	230.6	223.7
105°	193.8	258.3	322.8	351.5	344.4	337.3	330.3	323.2	330.3	337.3	344.4
107.5°	245.5	322.8	400.2	436.0	430.2	424.5	418.8	413.1	418.8	424.5	430.2
110°	322.6	390.8	459.1	490.8	485.8	480.9	475.9	470.9	475.9	480.9	485.8



TEST NUMBER: P331759

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	503.0	519.8	536.7	542.9	538.5	534.1	529.8	525.4	529.8	534.1	538.5
115°	644.1	638.2	632.3	627.3	623.3	619.3	615.3	611.3	615.3	619.3	623.3
117.5°	718.4	714.3	710.2	706.0	701.5	697.0	692.5	688.0	692.5	697.0	701.5
120°	770.7	766.5	762.2	758.3	754.8	751.2	747.7	744.1	747.7	751.2	754.8
122.5°	820.1	815.5	810.9	806.7	803.0	799.2	795.5	791.8	795.5	799.2	803.0
125°	889.3	884.8	880.3	876.5	873.5	870.4	867.3	864.3	867.3	870.4	873.5
127.5°	953.6	950.3	946.9	943.6	940.2	936.8	933.4	930.0	933.4	936.8	940.2
130°	995.1	992.5	989.9	986.7	983.0	979.2	975.4	971.6	975.4	979.2	983.0
132.5°	1035.1	1032.5	1029.9	1027.0	1023.8	1020.6	1017.4	1014.1	1017.4	1020.6	1023.8
135°	1091.7	1089.6	1087.5	1084.5	1080.8	1077.0	1073.2	1069.4	1073.2	1077.0	1080.8
137.5°	1143.3	1140.9	1138.4	1135.9	1133.3	1130.6	1128.0	1125.3	1128.0	1130.6	1133.3
140°	1176.9	1174.3	1171.7	1169.5	1167.6	1165.7	1163.8	1161.9	1163.8	1165.7	1167.6
142.5°	1207.6	1204.6	1201.7	1199.3	1197.6	1195.9	1194.2	1192.5	1194.2	1195.9	1197.6
145°	1249.5	1245.5	1241.5	1239.6	1239.9	1240.1	1240.3	1240.6	1240.3	1240.1	1239.9
147.5°	1288.3	1284.4	1280.4	1278.9	1279.8	1280.7	1281.6	1282.5	1281.6	1280.7	1279.8
150°	1311.7	1307.9	1304.1	1303.1	1304.7	1306.4	1308.0	1309.7	1308.0	1306.4	1304.7
152.5°	1333.3	1329.7	1326.1	1325.3	1327.1	1328.9	1330.8	1332.6	1330.8	1328.9	1327.1
155°	1363.5	1360.7	1357.9	1357.5	1359.6	1361.8	1363.9	1366.0	1363.9	1361.8	1359.6
157.5°	1389.0	1387.1	1385.1	1385.0	1386.8	1388.6	1390.4	1392.2	1390.4	1388.6	1386.8
160°	1404.6	1403.2	1401.8	1401.8	1403.2	1404.6	1406.1	1407.5	1406.1	1404.6	1403.2
162.5°	1417.8	1416.5	1415.3	1415.4	1416.8	1418.2	1419.7	1421.1	1419.7	1418.2	1416.8
165°	1434.8	1434.0	1433.3	1433.7	1435.1	1436.5	1437.9	1439.4	1437.9	1436.5	1435.1
167.5°	1448.2	1447.6	1446.9	1447.3	1448.7	1450.1	1451.6	1453.0	1451.6	1450.1	1448.7
170°	1455.4	1455.0	1454.5	1455.0	1456.4	1457.8	1459.2	1460.6	1459.2	1457.8	1456.4
172.5°	1460.5	1460.1	1459.6	1460.1	1461.5	1462.9	1464.3	1465.7	1464.3	1462.9	1461.5
175°	1466.1	1465.6	1465.1	1465.7	1467.4	1469.0	1470.7	1472.3	1470.7	1469.0	1467.4
177.5°	1467.9	1467.7	1467.5	1468.1	1469.4	1470.7	1472.1	1473.4	1472.1	1470.7	1469.4
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



TEST NUMBER: P331759

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2174.2	2169.9	2161.9	2149.6	2142.3	2129.4	2120.8	2125.7	2127.0	2125.7	2124.5
5°	2115.8	2099.7	2077.5	2056.0	2036.1	2014.6	2002.4	1997.0	1986.3	1980.1	1977.1
7.5°	2045.1	2017.4	1986.0	1948.6	1916.8	1883.6	1866.6	1858.1	1836.2	1824.3	1813.8
10°	1992.4	1948.7	1917.3	1868.3	1838.4	1794.7	1764.8	1765.6	1735.7	1718.8	1706.6
12.5°	1934.2	1886.2	1833.9	1789.8	1748.3	1713.2	1677.1	1662.6	1630.9	1614.6	1581.5
15°	1837.6	1781.7	1726.5	1666.7	1624.6	1570.2	1518.1	1454.5	1403.1	1358.7	1346.4
17.5°	1732.2	1662.9	1607.6	1537.4	1465.2	1373.7	1313.3	1276.4	1245.4	1222.0	1204.5
20°	1659.8	1589.3	1530.3	1424.6	1327.2	1265.2	1220.7	1192.4	1160.2	1134.9	1121.1
22.5°	1583.8	1510.2	1429.8	1311.8	1235.9	1186.1	1146.5	1113.9	1092.1	1072.4	1059.8
25°	1475.9	1395.4	1262.9	1181.6	1120.3	1068.2	1040.6	1020.7	997.7	970.9	958.7
27.5°	1361.9	1233.9	1138.7	1078.3	1019.8	985.9	961.1	931.4	910.8	898.7	886.0
30°	1276.7	1148.7	1074.4	1008.5	967.1	929.5	900.4	883.6	863.6	842.9	834.5
32.5°	1181.6	1079.4	1008.2	953.3	911.3	879.3	856.3	829.0	814.6	801.9	784.2
35°	1063.6	986.2	921.1	876.7	836.8	810.8	783.9	767.8	741.8	731.1	724.2
37.5°	963.7	896.6	848.0	801.1	769.5	740.7	724.3	698.7	687.4	672.5	658.0
40°	907.3	841.4	794.7	756.3	721.1	699.6	678.9	658.3	641.4	634.5	616.9
42.5°	849.7	796.0	749.3	707.3	683.7	661.0	634.8	619.6	602.2	591.0	580.1
45°	770.1	722.6	682.8	648.3	622.2	598.5	581.6	556.3	546.4	524.2	515.0
47.5°	700.3	656.1	618.1	585.3	559.9	544.4	519.7	499.9	484.0	470.4	458.6
50°	650.6	613.8	577.0	547.9	524.9	502.7	477.4	467.4	442.9	436.0	429.1
52.5°	605.2	570.3	536.6	508.1	485.1	463.5	441.2	428.2	411.7	404.8	399.7
55°	541.8	508.1	475.9	450.6	427.6	405.4	391.6	375.5	367.8	362.5	356.3
57.5°	478.0	447.7	423.0	397.4	374.3	356.6	340.7	331.0	323.1	316.0	308.7
60°	437.6	408.4	386.2	362.5	338.7	324.1	311.9	300.4	291.2	280.5	277.4
62.5°	394.6	369.2	348.8	325.7	305.0	291.7	280.0	269.1	258.1	242.5	238.2
65°	335.6	315.7	294.3	275.1	256.7	243.7	226.8	214.6	210.0	208.4	207.7
67.5°	282.3	263.5	245.1	225.4	208.7	196.6	188.1	186.2	183.0	182.1	179.9
70°	246.8	229.1	210.7	192.3	176.3	174.0	170.9	167.8	164.0	162.5	160.9
72.5°	214.9	196.6	178.2	163.5	156.6	153.7	150.7	147.6	145.0	143.5	142.5
75°	164.8	147.9	135.6	130.3	126.4	124.1	119.5	117.2	115.7	113.4	112.6
77.5°	118.6	109.1	103.5	100.1	96.1	93.6	91.0	88.7	87.1	86.6	85.4
80°	90.4	85.8	82.0	77.4	75.9	72.8	72.0	69.7	70.5	68.2	68.2
82.5°	70.2	64.4	61.2	59.0	57.5	55.0	54.3	53.2	53.3	51.6	51.6
85°	36.0	34.5	33.0	31.4	31.4	29.1	29.9	29.1	29.1	27.6	26.8
87.5°	13.9	13.8	12.9	13.3	13.7	13.4	13.7	13.3	13.5	13.8	13.3
90°	11.5	13.7	15.6	17.5	19.4	21.3	22.4	23.6	24.8	26.0	26.8
92.5°	20.5	20.9	21.8	22.8	23.7	24.7	25.3	25.9	26.5	27.1	27.6
95°	37.9	34.8	36.5	38.2	39.8	41.5	42.6	43.8	45.0	46.2	46.7
97.5°	49.3	40.2	44.0	47.8	51.7	55.5	56.4	57.4	58.3	59.3	59.9
100°	58.7	44.5	48.5	52.6	56.6	60.6	62.5	64.4	66.3	68.2	69.3
102.5°	216.9	196.7	163.1	129.5	95.9	62.3	64.8	67.2	69.7	72.1	73.7
105°	351.5	322.8	258.3	193.8	129.3	64.8	67.4	70.0	72.6	75.2	77.0
107.5°	436.0	400.2	322.8	245.5	168.1	90.8	88.1	85.5	82.8	80.2	79.4
110°	490.8	459.1	390.8	322.6	254.3	186.0	162.4	138.8	115.2	91.5	80.2



TEST NUMBER: P331759

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	542.9	536.7	519.8	503.0	486.1	469.2	383.1	296.9	210.7	124.5	81.8
115°	627.3	632.3	638.2	644.1	650.0	655.9	546.5	437.1	327.8	218.4	155.2
117.5°	706.0	710.2	714.3	718.4	722.4	726.5	700.0	673.6	647.1	620.7	579.5
120°	758.3	762.2	766.5	770.7	775.0	779.2	782.0	784.9	787.7	790.6	776.0
122.5°	806.7	810.9	815.5	820.1	824.8	829.4	831.1	832.8	834.5	836.2	833.9
125°	876.5	880.3	884.8	889.3	893.8	898.3	899.9	901.6	903.2	904.9	906.1
127.5°	943.6	946.9	950.3	953.6	957.0	960.4	962.8	965.2	967.6	970.0	971.3
130°	986.7	989.9	992.5	995.1	997.7	1000.3	1002.9	1005.5	1008.1	1010.7	1011.9
132.5°	1027.0	1029.9	1032.5	1035.1	1037.7	1040.3	1042.5	1044.7	1047.0	1049.2	1050.2
135°	1084.5	1087.5	1089.6	1091.7	1093.9	1096.0	1098.4	1100.7	1103.1	1105.4	1106.4
137.5°	1135.9	1138.4	1140.9	1143.3	1145.7	1148.1	1150.4	1152.7	1155.0	1157.3	1158.1
140°	1169.5	1171.7	1174.3	1176.9	1179.5	1182.1	1184.2	1186.4	1188.5	1190.6	1191.1
142.5°	1199.3	1201.7	1204.6	1207.6	1210.6	1213.6	1215.5	1217.4	1219.4	1221.3	1221.7
145°	1239.6	1241.5	1245.5	1249.5	1253.6	1257.6	1259.2	1260.9	1262.5	1264.2	1264.4
147.5°	1278.9	1280.4	1284.4	1288.3	1292.3	1296.3	1297.5	1298.7	1300.0	1301.2	1301.3
150°	1303.1	1304.1	1307.9	1311.7	1315.5	1319.2	1320.7	1322.1	1323.5	1324.9	1325.0
152.5°	1325.3	1326.1	1329.7	1333.3	1336.9	1340.5	1341.9	1343.3	1344.8	1346.2	1346.1
155°	1357.5	1357.9	1360.7	1363.5	1366.4	1369.2	1370.6	1372.0	1373.5	1374.9	1374.6
157.5°	1385.0	1385.1	1387.1	1389.0	1391.0	1393.0	1394.6	1396.2	1397.8	1399.4	1399.3
160°	1401.8	1401.8	1403.2	1404.6	1406.1	1407.5	1408.9	1410.3	1411.7	1413.1	1413.0
162.5°	1415.4	1415.3	1416.5	1417.8	1419.0	1420.2	1421.8	1423.4	1425.0	1426.7	1426.4
165°	1433.7	1433.3	1434.0	1434.8	1435.5	1436.2	1437.8	1439.5	1441.1	1442.8	1442.8
167.5°	1447.3	1446.9	1447.6	1448.2	1448.9	1449.6	1451.2	1452.9	1454.5	1456.2	1455.9
170°	1455.0	1454.5	1455.0	1455.4	1455.9	1456.4	1458.0	1459.7	1461.3	1463.0	1462.7
172.5°	1460.1	1459.6	1460.1	1460.5	1461.0	1461.5	1463.1	1464.8	1466.4	1468.1	1467.9
175°	1465.7	1465.1	1465.6	1466.1	1466.5	1467.0	1468.7	1470.3	1472.0	1473.6	1473.3
177.5°	1468.1	1467.5	1467.7	1467.9	1468.1	1468.3	1469.6	1470.9	1472.2	1473.6	1473.4
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



TEST NUMBER: P331759

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2117.8	2119.0	2117.2	2118.4	2117.2	2119.0	2117.8	2124.5	2125.7	2127.0	2125.7
5°	1973.2	1964.0	1962.5	1960.2	1962.5	1964.0	1973.2	1977.1	1980.1	1986.3	1997.0
7.5°	1800.7	1799.3	1795.5	1790.1	1795.5	1799.3	1800.7	1813.8	1824.3	1836.2	1858.1
10°	1689.7	1685.9	1685.1	1679.7	1685.1	1685.9	1689.7	1706.6	1718.8	1735.7	1765.6
12.5°	1559.7	1535.1	1532.5	1519.1	1532.5	1535.1	1559.7	1581.5	1614.6	1630.9	1662.6
15°	1328.0	1323.4	1308.1	1298.1	1308.1	1323.4	1328.0	1346.4	1358.7	1403.1	1454.5
17.5°	1195.6	1180.6	1175.8	1173.7	1175.8	1180.6	1195.6	1204.5	1222.0	1245.4	1276.4
20°	1110.4	1096.6	1094.3	1092.8	1094.3	1096.6	1110.4	1121.1	1134.9	1160.2	1192.4
22.5°	1051.5	1037.1	1031.1	1026.5	1031.1	1037.1	1051.5	1059.8	1072.4	1092.1	1113.9
25°	951.0	945.6	942.6	941.0	942.6	945.6	951.0	958.7	970.9	997.7	1020.7
27.5°	872.4	860.6	858.3	854.3	858.3	860.6	872.4	886.0	898.7	910.8	931.4
30°	827.6	823.8	818.4	813.8	818.4	823.8	827.6	834.5	842.9	863.6	883.6
32.5°	774.9	771.7	766.9	764.8	766.9	771.7	774.9	784.2	801.9	814.6	829.0
35°	716.5	705.8	701.2	694.3	701.2	705.8	716.5	724.2	731.1	741.8	767.8
37.5°	654.7	649.1	642.6	644.9	642.6	649.1	654.7	658.0	672.5	687.4	698.7
40°	606.9	603.1	601.6	600.8	601.6	603.1	606.9	616.9	634.5	641.4	658.3
42.5°	568.9	558.3	554.3	554.2	554.3	558.3	568.9	580.1	591.0	602.2	619.6
45°	511.1	501.2	494.3	495.0	494.3	501.2	511.1	515.0	524.2	546.4	556.3
47.5°	452.0	451.7	447.4	448.7	447.4	451.7	452.0	458.6	470.4	484.0	499.9
50°	423.8	419.2	416.1	416.9	416.1	419.2	423.8	429.1	436.0	442.9	467.4
52.5°	396.8	392.8	390.4	393.6	390.4	392.8	396.8	399.7	404.8	411.7	428.2
55°	352.5	347.9	347.1	346.4	347.1	347.9	352.5	356.3	362.5	367.8	375.5
57.5°	303.0	299.9	295.3	293.3	295.3	299.9	303.0	308.7	316.0	323.1	331.0
60°	267.4	261.3	253.6	252.9	253.6	261.3	267.4	277.4	280.5	291.2	300.4
62.5°	234.9	233.7	232.2	232.0	232.2	233.7	234.9	238.2	242.5	258.1	269.1
65°	206.1	205.4	206.1	206.9	206.1	205.4	206.1	207.7	208.4	210.0	214.6
67.5°	179.6	178.2	176.9	177.5	176.9	178.2	179.6	179.9	182.1	183.0	186.2
70°	159.4	158.6	157.9	157.9	157.9	158.6	159.4	160.9	162.5	164.0	167.8
72.5°	139.8	139.6	138.9	138.2	138.9	139.6	139.8	142.5	143.5	145.0	147.6
75°	111.9	110.3	110.3	110.3	110.3	110.3	111.9	112.6	113.4	115.7	117.2
77.5°	85.2	84.4	83.7	83.1	83.7	84.4	85.2	85.4	86.6	87.1	88.7
80°	67.4	66.7	65.9	65.9	65.9	66.7	67.4	68.2	68.2	70.5	69.7
82.5°	51.5	50.7	50.6	50.0	50.6	50.7	51.5	51.6	51.6	53.3	53.2
85°	27.6	28.4	27.6	29.1	27.6	28.4	27.6	26.8	27.6	29.1	29.1
87.5°	13.4	12.9	13.6	13.1	13.6	12.9	13.4	13.3	13.8	13.5	13.3
90°	27.3	27.8	28.2	28.7	28.2	27.8	27.3	26.8	26.0	24.8	23.6
92.5°	27.9	28.1	28.4	28.7	28.4	28.1	27.9	27.6	27.1	26.5	25.9
95°	46.4	46.2	45.9	45.7	45.9	46.2	46.4	46.7	46.2	45.0	43.8
97.5°	60.2	60.5	60.7	61.0	60.7	60.5	60.2	59.9	59.3	58.3	57.4
100°	69.8	70.3	70.8	71.2	70.8	70.3	69.8	69.3	68.2	66.3	64.4
102.5°	74.3	75.0	75.7	76.3	75.7	75.0	74.3	73.7	72.1	69.7	67.2
105°	78.0	78.9	79.8	80.8	79.8	78.9	78.0	77.0	75.2	72.6	70.0
107.5°	80.3	81.2	82.2	83.1	82.2	81.2	80.3	79.4	80.2	82.8	85.5
110°	81.1	82.1	83.0	84.0	83.0	82.1	81.1	80.2	91.5	115.2	138.8



TEST NUMBER: P331759

CATALOG NUMBER: SA2XXRDIP-C1005D1080U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	82.6	83.3	84.1	84.8	84.1	83.3	82.6	81.8	124.5	210.7	296.9
115°	138.2	121.2	104.2	87.2	104.2	121.2	138.2	155.2	218.4	327.8	437.1
117.5°	523.6	467.7	411.8	355.9	411.8	467.7	523.6	579.5	620.7	647.1	673.6
120°	744.1	712.2	680.3	648.5	680.3	712.2	744.1	776.0	790.6	787.7	784.9
122.5°	827.8	821.6	815.4	809.2	815.4	821.6	827.8	833.9	836.2	834.5	832.8
125°	906.8	907.5	908.2	908.9	908.2	907.5	906.8	906.1	904.9	903.2	901.6
127.5°	971.4	971.6	971.7	971.8	971.7	971.6	971.4	971.3	970.0	967.6	965.2
130°	1011.7	1011.4	1011.2	1011.0	1011.2	1011.4	1011.7	1011.9	1010.7	1008.1	1005.5
132.5°	1049.9	1049.7	1049.5	1049.2	1049.5	1049.7	1049.9	1050.2	1049.2	1047.0	1044.7
135°	1105.9	1105.4	1105.0	1104.5	1105.0	1105.4	1105.9	1106.4	1105.4	1103.1	1100.7
137.5°	1157.3	1156.5	1155.7	1154.9	1155.7	1156.5	1157.3	1158.1	1157.3	1155.0	1152.7
140°	1189.9	1188.7	1187.5	1186.4	1187.5	1188.7	1189.9	1191.1	1190.6	1188.5	1186.4
142.5°	1220.5	1219.3	1218.2	1217.0	1218.2	1219.3	1220.5	1221.7	1221.3	1219.4	1217.4
145°	1263.3	1262.1	1260.9	1259.7	1260.9	1262.1	1263.3	1264.4	1264.2	1262.5	1260.9
147.5°	1300.3	1299.3	1298.3	1297.3	1298.3	1299.3	1300.3	1301.3	1301.2	1300.0	1298.7
150°	1323.8	1322.7	1321.5	1320.3	1321.5	1322.7	1323.8	1325.0	1324.9	1323.5	1322.1
152.5°	1344.5	1343.0	1341.4	1339.9	1341.4	1343.0	1344.5	1346.1	1346.2	1344.8	1343.3
155°	1372.7	1370.9	1369.0	1367.1	1369.0	1370.9	1372.7	1374.6	1374.9	1373.5	1372.0
157.5°	1397.5	1395.6	1393.8	1391.9	1393.8	1395.6	1397.5	1399.3	1399.4	1397.8	1396.2
160°	1411.4	1409.7	1408.1	1406.4	1408.1	1409.7	1411.4	1413.0	1413.1	1411.7	1410.3
162.5°	1424.4	1422.4	1420.3	1418.3	1420.3	1422.4	1424.4	1426.4	1426.7	1425.0	1423.4
165°	1441.1	1439.5	1437.8	1436.2	1437.8	1439.5	1441.1	1442.8	1442.8	1441.1	1439.5
167.5°	1453.8	1451.7	1449.6	1447.4	1449.6	1451.7	1453.8	1455.9	1456.2	1454.5	1452.9
170°	1460.6	1458.5	1456.4	1454.2	1456.4	1458.5	1460.6	1462.7	1463.0	1461.3	1459.7
172.5°	1465.7	1463.6	1461.5	1459.3	1461.5	1463.6	1465.7	1467.9	1468.1	1466.4	1464.8
175°	1470.9	1468.5	1466.2	1463.8	1466.2	1468.5	1470.9	1473.3	1473.6	1472.0	1470.3
177.5°	1471.7	1470.0	1468.3	1466.6	1468.3	1470.0	1471.7	1473.4	1473.6	1472.2	1470.9
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2120.8	2129.4	2142.3	2149.6	2161.9	2169.9	2174.2	2182.1	2186.4	2201.8	2217.7
5°	2002.4	2014.6	2036.1	2056.0	2077.5	2099.7	2115.8	2134.2	2151.0	2180.1	2210.8
7.5°	1866.6	1883.6	1916.8	1948.6	1986.0	2017.4	2045.1	2076.5	2104.6	2146.3	2189.8
10°	1764.8	1794.7	1838.4	1868.3	1917.3	1948.7	1992.4	2026.9	2066.0	2121.1	2170.2
12.5°	1677.1	1713.2	1748.3	1789.8	1833.9	1886.2	1934.2	1978.5	2024.9	2081.9	2139.5
15°	1518.1	1570.2	1624.6	1666.7	1726.5	1781.7	1837.6	1897.4	1954.1	2022.3	2097.4
17.5°	1313.3	1373.7	1465.2	1537.4	1607.6	1662.9	1732.2	1804.5	1871.3	1953.6	2037.2
20°	1220.7	1265.2	1327.2	1424.6	1530.3	1589.3	1659.8	1739.5	1816.1	1905.8	1995.5
22.5°	1146.5	1186.1	1235.9	1311.8	1429.8	1510.2	1583.8	1664.7	1753.6	1845.1	1944.6
25°	1040.6	1068.2	1120.3	1181.6	1262.9	1395.4	1475.9	1557.1	1653.7	1751.8	1865.2
27.5°	961.1	985.9	1019.8	1078.3	1138.7	1233.9	1361.9	1450.5	1546.7	1657.1	1774.8
30°	900.4	929.5	967.1	1008.5	1074.4	1148.7	1276.7	1379.4	1474.4	1587.8	1713.5
32.5°	856.3	879.3	911.3	953.3	1008.2	1079.4	1181.6	1306.4	1399.0	1518.5	1649.7
35°	783.9	810.8	836.8	876.7	921.1	986.2	1063.6	1197.0	1288.9	1406.9	1538.7
37.5°	724.3	740.7	769.5	801.1	848.0	896.6	963.7	1083.3	1182.7	1298.6	1433.5
40°	678.9	699.6	721.1	756.3	794.7	841.4	907.3	996.2	1110.4	1223.8	1355.6
42.5°	634.8	661.0	683.7	707.3	749.3	796.0	849.7	925.1	1041.7	1149.0	1277.1
45°	581.6	598.5	622.2	648.3	682.8	722.6	770.1	836.0	947.9	1040.6	1161.0
47.5°	519.7	544.4	559.9	585.3	618.1	656.1	700.3	757.3	847.8	934.7	1046.3
50°	477.4	502.7	524.9	547.9	577.0	613.8	650.6	705.8	778.6	869.8	974.0
52.5°	441.2	463.5	485.1	508.1	536.6	570.3	605.2	653.7	716.0	799.9	901.0
55°	391.6	405.4	427.6	450.6	475.9	508.1	541.8	582.4	636.0	706.5	788.5
57.5°	340.7	356.6	374.3	397.4	423.0	447.7	478.0	514.8	557.1	620.9	691.1
60°	311.9	324.1	338.7	362.5	386.2	408.4	437.6	468.2	508.1	563.2	623.0
62.5°	280.0	291.7	305.0	325.7	348.8	369.2	394.6	427.1	460.9	511.1	563.5
65°	226.8	243.7	256.7	275.1	294.3	315.7	335.6	361.7	391.6	431.4	478.2
67.5°	188.1	196.6	208.7	225.4	245.1	263.5	282.3	302.7	328.6	359.4	396.5
70°	170.9	174.0	176.3	192.3	210.7	229.1	246.8	265.9	288.1	313.4	345.6
72.5°	150.7	153.7	156.6	163.5	178.2	196.6	214.9	229.1	250.1	271.1	297.2
75°	119.5	124.1	126.4	130.3	135.6	147.9	164.8	178.5	190.8	206.9	227.6
77.5°	91.0	93.6	96.1	100.1	103.5	109.1	118.6	131.0	142.5	151.9	166.1
80°	72.0	72.8	75.9	77.4	82.0	85.8	90.4	100.4	111.9	115.7	125.7
82.5°	54.3	55.0	57.5	59.0	61.2	64.4	70.2	72.8	81.8	86.9	93.2
85°	29.9	29.1	31.4	31.4	33.0	34.5	36.0	39.8	42.1	48.3	49.8
87.5°	13.7	13.4	13.7	13.3	12.9	13.8	13.9	14.0	14.7	16.1	18.0
90°	22.4	21.3	19.4	17.5	15.6	13.7	11.5	8.9	6.3	3.7	1.1
92.5°	25.3	24.7	23.7	22.8	21.8	20.9	20.5	20.8	21.0	21.2	21.5
95°	42.6	41.5	39.8	38.2	36.5	34.8	37.9	45.7	53.5	61.3	69.1
97.5°	56.4	55.5	51.7	47.8	44.0	40.2	49.3	71.2	93.2	115.2	137.1
100°	62.5	60.6	56.6	52.6	48.5	44.5	58.7	91.1	123.4	155.8	188.2
102.5°	64.8	62.3	95.9	129.5	163.1	196.7	216.9	223.7	230.6	237.4	244.3
105°	67.4	64.8	129.3	193.8	258.3	322.8	351.5	344.4	337.3	330.3	323.2
107.5°	88.1	90.8	168.1	245.5	322.8	400.2	436.0	430.2	424.5	418.8	413.1
110°	162.4	186.0	254.3	322.6	390.8	459.1	490.8	485.8	480.9	475.9	470.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	383.1	469.2	486.1	503.0	519.8	536.7	542.9	538.5	534.1	529.8	525.4
115°	546.5	655.9	650.0	644.1	638.2	632.3	627.3	623.3	619.3	615.3	611.3
117.5°	700.0	726.5	722.4	718.4	714.3	710.2	706.0	701.5	697.0	692.5	688.0
120°	782.0	779.2	775.0	770.7	766.5	762.2	758.3	754.8	751.2	747.7	744.1
122.5°	831.1	829.4	824.8	820.1	815.5	810.9	806.7	803.0	799.2	795.5	791.8
125°	899.9	898.3	893.8	889.3	884.8	880.3	876.5	873.5	870.4	867.3	864.3
127.5°	962.8	960.4	957.0	953.6	950.3	946.9	943.6	940.2	936.8	933.4	930.0
130°	1002.9	1000.3	997.7	995.1	992.5	989.9	986.7	983.0	979.2	975.4	971.6
132.5°	1042.5	1040.3	1037.7	1035.1	1032.5	1029.9	1027.0	1023.8	1020.6	1017.4	1014.1
135°	1098.4	1096.0	1093.9	1091.7	1089.6	1087.5	1084.5	1080.8	1077.0	1073.2	1069.4
137.5°	1150.4	1148.1	1145.7	1143.3	1140.9	1138.4	1135.9	1133.3	1130.6	1128.0	1125.3
140°	1184.2	1182.1	1179.5	1176.9	1174.3	1171.7	1169.5	1167.6	1165.7	1163.8	1161.9
142.5°	1215.5	1213.6	1210.6	1207.6	1204.6	1201.7	1199.3	1197.6	1195.9	1194.2	1192.5
145°	1259.2	1257.6	1253.6	1249.5	1245.5	1241.5	1239.6	1239.9	1240.1	1240.3	1240.6
147.5°	1297.5	1296.3	1292.3	1288.3	1284.4	1280.4	1278.9	1279.8	1280.7	1281.6	1282.5
150°	1320.7	1319.2	1315.5	1311.7	1307.9	1304.1	1303.1	1304.7	1306.4	1308.0	1309.7
152.5°	1341.9	1340.5	1336.9	1333.3	1329.7	1326.1	1325.3	1327.1	1328.9	1330.8	1332.6
155°	1370.6	1369.2	1366.4	1363.5	1360.7	1357.9	1357.5	1359.6	1361.8	1363.9	1366.0
157.5°	1394.6	1393.0	1391.0	1389.0	1387.1	1385.1	1385.0	1386.8	1388.6	1390.4	1392.2
160°	1408.9	1407.5	1406.1	1404.6	1403.2	1401.8	1401.8	1403.2	1404.6	1406.1	1407.5
162.5°	1421.8	1420.2	1419.0	1417.8	1416.5	1415.3	1415.4	1416.8	1418.2	1419.7	1421.1
165°	1437.8	1436.2	1435.5	1434.8	1434.0	1433.3	1433.7	1435.1	1436.5	1437.9	1439.4
167.5°	1451.2	1449.6	1448.9	1448.2	1447.6	1446.9	1447.3	1448.7	1450.1	1451.6	1453.0
170°	1458.0	1456.4	1455.9	1455.4	1455.0	1454.5	1455.0	1456.4	1457.8	1459.2	1460.6
172.5°	1463.1	1461.5	1461.0	1460.5	1460.1	1459.6	1460.1	1461.5	1462.9	1464.3	1465.7
175°	1468.7	1467.0	1466.5	1466.1	1465.6	1465.1	1465.7	1467.4	1469.0	1470.7	1472.3
177.5°	1469.6	1468.3	1468.1	1467.9	1467.7	1467.5	1468.1	1469.4	1470.7	1472.1	1473.4
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



TEST NUMBER: P331759

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2218.3	2220.1	2232.4	2237.9	2249.0	2253.2	2258.2	2256.9	2256.9	2259.4	2276.5
5°	2223.1	2238.4	2261.4	2283.6	2305.1	2323.4	2335.7	2348.0	2352.6	2374.8	2394.7
7.5°	2215.1	2243.3	2281.3	2315.2	2355.8	2387.5	2413.9	2437.6	2453.9	2486.2	2519.3
10°	2204.7	2244.5	2287.4	2331.1	2387.0	2429.2	2472.1	2505.1	2515.8	2564.1	2591.7
12.5°	2183.8	2237.2	2291.7	2348.3	2403.0	2461.1	2508.3	2541.2	2578.9	2622.3	2673.2
15°	2152.6	2213.9	2285.1	2357.9	2436.1	2506.6	2557.2	2614.6	2656.0	2703.5	2748.0
17.5°	2107.7	2186.6	2277.2	2361.5	2451.9	2527.6	2597.2	2652.3	2681.5	2708.6	2715.2
20°	2072.1	2157.2	2263.7	2363.3	2453.7	2541.1	2610.0	2656.0	2663.7	2664.4	2623.8
22.5°	2033.5	2129.6	2241.0	2343.1	2451.3	2548.4	2602.1	2621.7	2591.3	2539.4	2460.8
25°	1962.5	2073.6	2203.1	2319.6	2437.6	2529.6	2548.0	2513.5	2407.0	2295.1	2153.3
27.5°	1885.6	2010.5	2149.3	2278.8	2404.5	2461.5	2421.8	2297.5	2105.7	1938.9	1736.8
30°	1829.2	1969.4	2105.8	2250.6	2367.1	2391.6	2300.5	2117.3	1893.5	1642.2	1440.7
32.5°	1764.8	1911.8	2061.7	2211.4	2308.9	2285.0	2134.3	1908.9	1646.5	1399.4	1208.9
35°	1672.8	1824.6	1986.3	2136.5	2198.5	2095.1	1869.8	1576.3	1308.1	1077.4	946.4
37.5°	1566.6	1731.9	1900.0	2037.9	2033.5	1861.1	1554.2	1251.2	1025.8	889.4	796.0
40°	1491.2	1658.3	1839.9	1956.4	1906.6	1682.0	1349.5	1063.6	898.9	790.1	721.9
42.5°	1418.9	1586.6	1767.0	1859.5	1772.9	1496.9	1165.6	941.6	805.7	720.8	665.5
45°	1295.8	1472.8	1639.9	1691.2	1536.4	1232.2	942.6	780.1	689.7	626.8	588.5
47.5°	1175.5	1349.6	1502.1	1503.0	1293.7	999.3	795.1	675.1	597.9	549.3	521.4
50°	1101.9	1267.5	1395.4	1375.5	1138.0	888.9	711.1	607.7	543.3	505.8	476.6
52.5°	1019.2	1179.8	1290.6	1233.9	1006.2	782.2	635.7	548.8	495.5	462.8	436.8
55°	898.9	1041.4	1119.6	1033.7	820.7	650.6	537.2	469.0	429.1	401.5	379.3
57.5°	780.7	898.3	947.5	847.5	676.0	539.5	454.4	403.2	363.7	343.9	332.4
60°	706.5	806.9	841.4	731.1	587.8	472.0	402.3	354.8	325.7	312.7	301.2
62.5°	633.6	715.6	729.8	628.7	512.4	413.2	353.3	313.1	293.8	281.4	270.5
65°	525.7	584.7	577.8	496.6	405.4	328.0	284.3	259.8	245.2	227.6	208.4
67.5°	432.8	468.8	447.1	386.2	309.4	254.9	226.4	207.8	189.7	173.0	168.6
70°	374.0	394.6	371.7	315.7	253.6	213.8	190.8	168.6	157.9	154.0	147.1
72.5°	317.6	324.8	299.9	252.0	206.4	177.0	154.6	142.2	136.4	133.2	128.7
75°	238.3	233.0	211.5	174.0	143.3	123.4	116.5	111.9	108.0	105.0	102.7
77.5°	167.4	159.5	140.4	115.9	99.8	90.3	86.1	83.7	81.8	80.3	78.0
80°	125.7	120.3	101.2	82.8	75.9	71.3	69.0	65.9	65.9	64.4	62.1
82.5°	92.0	86.0	69.3	60.7	56.9	54.1	52.4	50.6	50.0	50.3	48.6
85°	48.3	39.1	34.5	33.0	30.7	29.1	29.9	28.4	28.4	28.4	27.6
87.5°	15.4	12.9	12.8	12.7	13.8	14.2	13.9	14.3	15.3	14.9	15.8
90°	3.7	6.3	8.9	11.5	13.7	15.6	17.5	19.4	21.3	22.4	23.6
92.5°	21.2	21.0	20.8	20.5	20.9	21.8	22.8	23.7	24.7	25.3	25.9
95°	61.3	53.5	45.7	37.9	34.8	36.5	38.2	39.8	41.5	42.6	43.8
97.5°	115.2	93.2	71.2	49.3	40.2	44.0	47.8	51.7	55.5	56.4	57.4
100°	155.8	123.4	91.1	58.7	44.5	48.5	52.6	56.6	60.6	62.5	64.4
102.5°	237.4	230.6	223.7	216.9	196.7	163.1	129.5	95.9	62.3	64.8	67.2
105°	330.3	337.3	344.4	351.5	322.8	258.3	193.8	129.3	64.8	67.4	70.0
107.5°	418.8	424.5	430.2	436.0	400.2	322.8	245.5	168.1	90.8	88.1	85.5
110°	475.9	480.9	485.8	490.8	459.1	390.8	322.6	254.3	186.0	162.4	138.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	529.8	534.1	538.5	542.9	536.7	519.8	503.0	486.1	469.2	383.1	296.9
115°	615.3	619.3	623.3	627.3	632.3	638.2	644.1	650.0	655.9	546.5	437.1
117.5°	692.5	697.0	701.5	706.0	710.2	714.3	718.4	722.4	726.5	700.0	673.6
120°	747.7	751.2	754.8	758.3	762.2	766.5	770.7	775.0	779.2	782.0	784.9
122.5°	795.5	799.2	803.0	806.7	810.9	815.5	820.1	824.8	829.4	831.1	832.8
125°	867.3	870.4	873.5	876.5	880.3	884.8	889.3	893.8	898.3	899.9	901.6
127.5°	933.4	936.8	940.2	943.6	946.9	950.3	953.6	957.0	960.4	962.8	965.2
130°	975.4	979.2	983.0	986.7	989.9	992.5	995.1	997.7	1000.3	1002.9	1005.5
132.5°	1017.4	1020.6	1023.8	1027.0	1029.9	1032.5	1035.1	1037.7	1040.3	1042.5	1044.7
135°	1073.2	1077.0	1080.8	1084.5	1087.5	1089.6	1091.7	1093.9	1096.0	1098.4	1100.7
137.5°	1128.0	1130.6	1133.3	1135.9	1138.4	1140.9	1143.3	1145.7	1148.1	1150.4	1152.7
140°	1163.8	1165.7	1167.6	1169.5	1171.7	1174.3	1176.9	1179.5	1182.1	1184.2	1186.4
142.5°	1194.2	1195.9	1197.6	1199.3	1201.7	1204.6	1207.6	1210.6	1213.6	1215.5	1217.4
145°	1240.3	1240.1	1239.9	1239.6	1241.5	1245.5	1249.5	1253.6	1257.6	1259.2	1260.9
147.5°	1281.6	1280.7	1279.8	1278.9	1280.4	1284.4	1288.3	1292.3	1296.3	1297.5	1298.7
150°	1308.0	1306.4	1304.7	1303.1	1304.1	1307.9	1311.7	1315.5	1319.2	1320.7	1322.1
152.5°	1330.8	1328.9	1327.1	1325.3	1326.1	1329.7	1333.3	1336.9	1340.5	1341.9	1343.3
155°	1363.9	1361.8	1359.6	1357.5	1357.9	1360.7	1363.5	1366.4	1369.2	1370.6	1372.0
157.5°	1390.4	1388.6	1386.8	1385.0	1385.1	1387.1	1389.0	1391.0	1393.0	1394.6	1396.2
160°	1406.1	1404.6	1403.2	1401.8	1401.8	1403.2	1404.6	1406.1	1407.5	1408.9	1410.3
162.5°	1419.7	1418.2	1416.8	1415.4	1415.3	1416.5	1417.8	1419.0	1420.2	1421.8	1423.4
165°	1437.9	1436.5	1435.1	1433.7	1433.3	1434.0	1434.8	1435.5	1436.2	1437.8	1439.5
167.5°	1451.6	1450.1	1448.7	1447.3	1446.9	1447.6	1448.2	1448.9	1449.6	1451.2	1452.9
170°	1459.2	1457.8	1456.4	1455.0	1454.5	1455.0	1455.4	1455.9	1456.4	1458.0	1459.7
172.5°	1464.3	1462.9	1461.5	1460.1	1459.6	1460.1	1460.5	1461.0	1461.5	1463.1	1464.8
175°	1470.7	1469.0	1467.4	1465.7	1465.1	1465.6	1466.1	1466.5	1467.0	1468.7	1470.3
177.5°	1472.1	1470.7	1469.4	1468.1	1467.5	1467.7	1467.9	1468.1	1468.3	1469.6	1470.9
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2282.7	2290.6	2294.3	2294.3	2298.6	2296.8	2294.9
5°	2413.9	2428.4	2431.5	2445.3	2455.2	2452.2	2453.7
7.5°	2544.3	2567.7	2590.9	2601.5	2603.1	2609.3	2611.6
10°	2624.6	2643.8	2679.8	2674.4	2701.2	2716.6	2691.3
12.5°	2701.8	2727.7	2752.7	2759.6	2774.8	2779.7	2769.7
15°	2771.7	2785.5	2787.1	2783.2	2787.8	2784.0	2769.4
17.5°	2706.4	2684.1	2638.7	2617.2	2600.2	2575.1	2565.0
20°	2598.5	2532.6	2456.0	2425.4	2389.3	2318.8	2335.7
22.5°	2365.6	2290.5	2213.9	2124.4	2081.6	2014.8	2010.8
25°	2003.1	1873.6	1731.1	1631.5	1573.2	1506.6	1477.4
27.5°	1557.4	1394.4	1277.6	1218.4	1164.6	1111.8	1109.6
30°	1264.4	1141.8	1051.4	1000.8	967.8	945.6	950.2
32.5°	1065.8	981.8	920.8	878.8	854.4	837.7	837.4
35°	871.3	813.8	774.7	757.1	739.5	727.2	728.0
37.5°	745.6	711.1	689.4	669.9	658.9	652.9	649.5
40°	681.2	652.9	636.0	624.5	615.3	606.9	605.4
42.5°	630.4	606.9	590.1	581.0	572.4	566.5	564.9
45°	559.4	540.2	524.9	515.0	511.1	505.8	505.8
47.5°	497.6	478.8	466.8	460.6	454.0	450.4	450.3
50°	456.0	441.4	430.7	426.8	421.5	419.2	418.4
52.5°	418.6	407.7	400.0	397.4	395.1	392.2	392.7
55°	367.8	361.7	358.6	356.3	352.5	347.9	351.0
57.5°	325.1	319.9	311.6	304.4	300.9	297.6	298.9
60°	295.0	284.3	273.6	265.1	262.8	255.9	255.9
62.5°	257.0	242.0	228.8	224.1	221.8	218.6	217.9
65°	197.7	191.6	188.5	185.4	183.9	183.9	182.4
67.5°	163.8	161.4	158.0	157.2	155.7	155.3	154.8
70°	144.8	141.8	140.2	139.5	137.9	138.7	136.4
72.5°	126.4	124.0	123.7	121.7	120.8	120.9	119.2
75°	99.6	99.6	98.9	98.1	96.6	95.8	96.6
77.5°	76.6	76.8	75.4	75.3	75.1	75.3	74.5
80°	61.3	62.1	61.3	60.5	59.8	60.5	59.8
82.5°	48.4	47.4	47.2	47.1	46.9	46.4	46.3
85°	27.6	28.4	27.6	26.8	26.8	26.8	27.6
87.5°	15.4	15.6	15.8	15.9	16.0	16.1	15.5
90°	24.8	26.0	26.8	27.3	27.8	28.2	28.7
92.5°	26.5	27.1	27.6	27.9	28.1	28.4	28.7
95°	45.0	46.2	46.7	46.4	46.2	45.9	45.7
97.5°	58.3	59.3	59.9	60.2	60.5	60.7	61.0
100°	66.3	68.2	69.3	69.8	70.3	70.8	71.2
102.5°	69.7	72.1	73.7	74.3	75.0	75.7	76.3
105°	72.6	75.2	77.0	78.0	78.9	79.8	80.8
107.5°	82.8	80.2	79.4	80.3	81.2	82.2	83.1
110°	115.2	91.5	80.2	81.1	82.1	83.0	84.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	210.7	124.5	81.8	82.6	83.3	84.1	84.8
115°	327.8	218.4	155.2	138.2	121.2	104.2	87.2
117.5°	647.1	620.7	579.5	523.6	467.7	411.8	355.9
120°	787.7	790.6	776.0	744.1	712.2	680.3	648.5
122.5°	834.5	836.2	833.9	827.8	821.6	815.4	809.2
125°	903.2	904.9	906.1	906.8	907.5	908.2	908.9
127.5°	967.6	970.0	971.3	971.4	971.6	971.7	971.8
130°	1008.1	1010.7	1011.9	1011.7	1011.4	1011.2	1011.0
132.5°	1047.0	1049.2	1050.2	1049.9	1049.7	1049.5	1049.2
135°	1103.1	1105.4	1106.4	1105.9	1105.4	1105.0	1104.5
137.5°	1155.0	1157.3	1158.1	1157.3	1156.5	1155.7	1154.9
140°	1188.5	1190.6	1191.1	1189.9	1188.7	1187.5	1186.4
142.5°	1219.4	1221.3	1221.7	1220.5	1219.3	1218.2	1217.0
145°	1262.5	1264.2	1264.4	1263.3	1262.1	1260.9	1259.7
147.5°	1300.0	1301.2	1301.3	1300.3	1299.3	1298.3	1297.3
150°	1323.5	1324.9	1325.0	1323.8	1322.7	1321.5	1320.3
152.5°	1344.8	1346.2	1346.1	1344.5	1343.0	1341.4	1339.9
155°	1373.5	1374.9	1374.6	1372.7	1370.9	1369.0	1367.1
157.5°	1397.8	1399.4	1399.3	1397.5	1395.6	1393.8	1391.9
160°	1411.7	1413.1	1413.0	1411.4	1409.7	1408.1	1406.4
162.5°	1425.0	1426.7	1426.4	1424.4	1422.4	1420.3	1418.3
165°	1441.1	1442.8	1442.8	1441.1	1439.5	1437.8	1436.2
167.5°	1454.5	1456.2	1455.9	1453.8	1451.7	1449.6	1447.4
170°	1461.3	1463.0	1462.7	1460.6	1458.5	1456.4	1454.2
172.5°	1466.4	1468.1	1467.9	1465.7	1463.6	1461.5	1459.3
175°	1472.0	1473.6	1473.3	1470.9	1468.5	1466.2	1463.8
177.5°	1472.2	1473.6	1473.4	1471.7	1470.0	1468.3	1466.6
180°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1

(END OF REPORT)