

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: P331753

Luminaire Tested: **SA2XXRDIP-C1005D925U835-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331753  
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-C1005D925U835-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 925 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

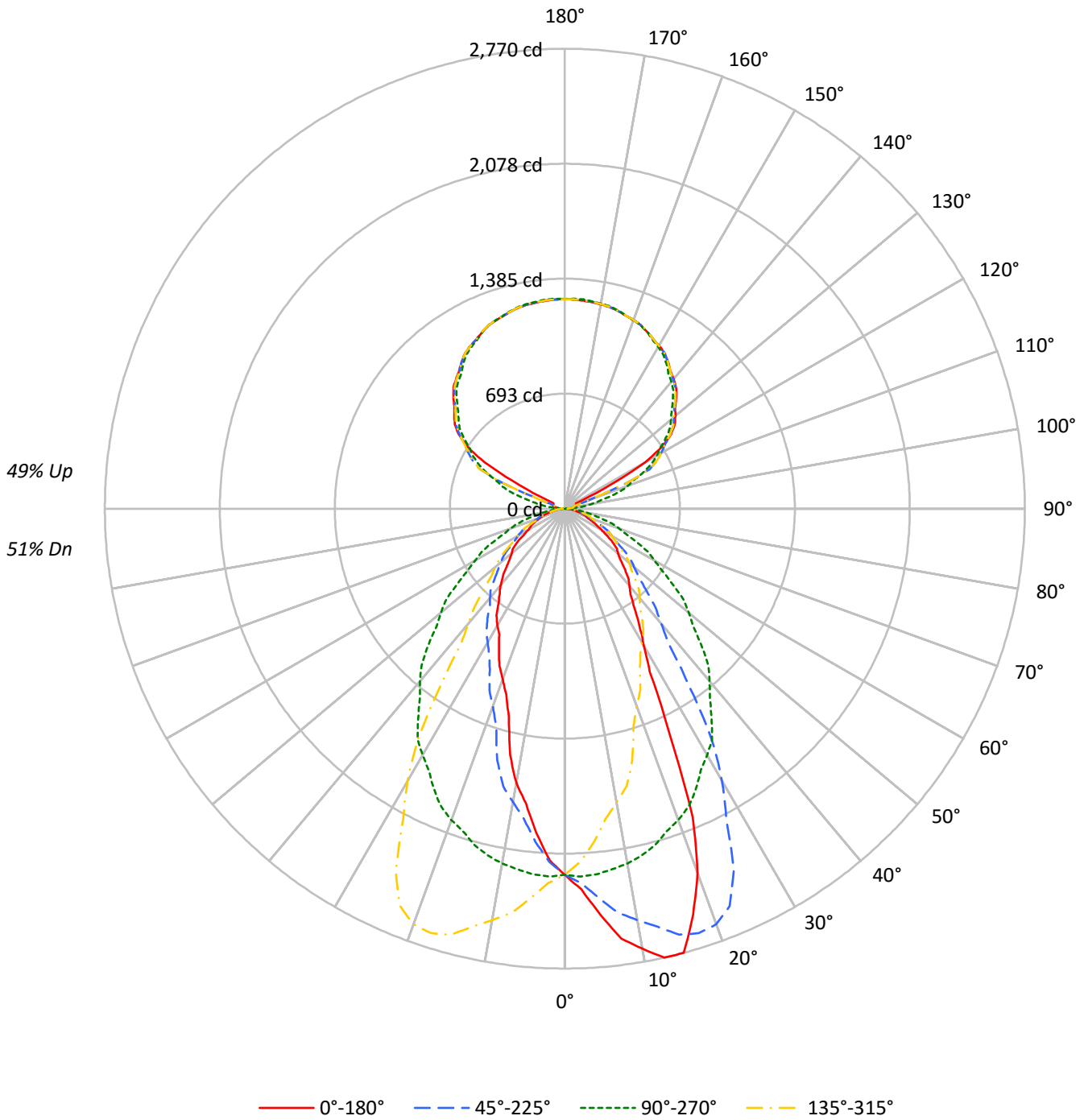
Lumens per Lamp: N/A  
Luminaire Lumens: 7513.4 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 66.8  
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	50	30	10	50	30	10	50	30	10	0				
RCR																																		
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
1	99	95	91	88	91	88	85	82	75	72	70	63	61	60	51	50	49	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44		
2	91	84	78	73	84	78	73	68	66	63	60	56	53	51	46	45	43	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38		
3	83	74	67	62	77	69	63	58	59	55	51	50	47	44	42	40	38	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34		
4	77	66	59	53	71	62	55	50	53	48	44	45	42	39	38	35	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
5	71	60	52	46	65	56	49	44	48	43	39	41	37	34	35	32	30	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26		
6	65	54	46	41	60	50	44	39	44	38	34	38	34	30	32	29	27	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
7	61	49	41	36	56	46	39	34	40	35	31	35	30	27	29	26	24	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
8	57	45	37	32	52	42	35	31	37	32	28	32	28	25	27	24	22	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
9	53	41	34	29	49	39	32	28	34	29	25	30	25	23	25	22	20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
10	50	38	31	26	46	36	29	25	31	26	23	27	23	21	24	21	18	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

**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	2.8
10°-20°	582.5	7.8
20°-30°	750.7	10.0
30°-40°	713.4	9.5
40°-50°	611.1	8.1
50°-60°	465.4	6.2
60°-70°	294.2	3.9
70°-80°	146.9	2.0
80°-90°	41.4	0.6
90°-100°	42.1	0.6
100°-110°	154.4	2.1
110°-120°	412.7	5.5
120°-130°	681.3	9.1
130°-140°	724.5	9.6
140°-150°	673.4	9.0
150°-160°	541.4	7.2
160°-170°	348.9	4.6
170°-180°	120.1	1.6
0°-30°	1542.3	20.5
0°-40°	2255.7	30.0
0°-60°	3332.1	44.3
0°-90°	3814.6	50.8
90°-120°	609.2	8.1
90°-150°	2688.4	35.8
90°-180°	3699.0	49.2
0°-180°	7513.4	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°	25	1	25	1	25	12
95°	39	59	39	59	39	37
105°	69	278	69	278	69	72
115°	75	525	75	525	75	188
125°	781	742	781	742	781	676
135°	949	919	949	919	949	731
145°	1082	1066	1082	1066	1082	677
155°	1174	1174	1174	1174	1174	542
165°	1234	1237	1234	1237	1234	348
175°	1258	1265	1258	1265	1258	120
180°	1262	1262	1262	1262	1262	



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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°	14.7	15.3	15.2	15.1	15.0	14.9	14.7	15.1	14.3	14.7	13.8
90°	24.7	24.3	23.8	23.4	23.0	22.3	21.3	20.3	19.3	18.3	16.6
92.5°	24.7	24.4	24.2	23.9	23.7	23.3	22.8	22.2	21.7	21.2	20.4
95°	39.3	39.5	39.7	39.9	40.1	39.7	38.7	37.6	36.6	35.6	34.2
97.5°	52.4	52.2	51.9	51.7	51.4	50.9	50.1	49.3	48.5	47.7	44.4
100°	61.2	60.8	60.4	60.0	59.6	58.6	56.9	55.3	53.7	52.1	48.6
102.5°	65.6	65.0	64.4	63.9	63.3	62.0	59.9	57.7	55.6	53.5	82.4
105°	69.4	68.6	67.8	67.0	66.2	64.6	62.4	60.2	57.9	55.7	111.1
107.5°	71.4	70.6	69.8	69.0	68.2	68.9	71.2	73.4	75.7	78.0	144.4
110°	72.2	71.3	70.5	69.7	68.9	78.6	98.9	119.2	139.5	159.8	218.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	72.9	72.2	71.6	70.9	70.3	107.0	181.0	255.1	329.1	403.1	417.6
115°	74.9	89.5	104.1	118.7	133.3	187.6	281.6	375.6	469.5	563.5	558.4
117.5°	305.8	353.8	401.8	449.8	497.8	533.2	556.0	578.7	601.4	624.1	620.7
120°	557.1	584.5	611.9	639.3	666.7	679.2	676.8	674.3	671.9	669.4	665.8
122.5°	695.2	700.5	705.8	711.2	716.5	718.4	716.9	715.5	714.0	712.6	708.6
125°	780.9	780.3	779.6	779.0	778.4	777.4	776.0	774.6	773.2	771.7	767.9
127.5°	834.9	834.8	834.7	834.6	834.4	833.4	831.3	829.2	827.1	825.1	822.2
130°	868.5	868.7	868.9	869.2	869.4	868.3	866.1	863.9	861.6	859.4	857.2
132.5°	901.4	901.6	901.8	902.0	902.2	901.4	899.5	897.6	895.7	893.7	891.5
135°	948.9	949.3	949.7	950.1	950.5	949.7	947.7	945.7	943.6	941.6	939.8
137.5°	992.2	992.9	993.6	994.3	995.0	994.3	992.3	990.3	988.3	986.4	984.3
140°	1019.2	1020.3	1021.3	1022.3	1023.3	1022.9	1021.1	1019.2	1017.4	1015.6	1013.4
142.5°	1045.5	1046.6	1047.6	1048.6	1049.6	1049.3	1047.6	1045.9	1044.3	1042.6	1040.1
145°	1082.3	1083.3	1084.3	1085.3	1086.3	1086.1	1084.7	1083.3	1081.8	1080.4	1077.0
147.5°	1114.6	1115.4	1116.3	1117.1	1118.0	1117.9	1116.8	1115.8	1114.7	1113.7	1110.3
150°	1134.3	1135.3	1136.3	1137.4	1138.4	1138.3	1137.1	1135.8	1134.6	1133.4	1130.2
152.5°	1151.1	1152.5	1153.8	1155.1	1156.5	1156.5	1155.3	1154.1	1152.9	1151.7	1148.6
155°	1174.5	1176.1	1177.7	1179.4	1181.0	1181.2	1180.0	1178.8	1177.5	1176.3	1173.9
157.5°	1195.9	1197.4	1199.0	1200.6	1202.2	1202.3	1200.9	1199.5	1198.2	1196.8	1195.1
160°	1208.3	1209.7	1211.1	1212.5	1214.0	1214.1	1212.9	1211.6	1210.4	1209.2	1208.0
162.5°	1218.5	1220.3	1222.0	1223.8	1225.5	1225.7	1224.3	1222.9	1221.5	1220.2	1219.1
165°	1233.9	1235.3	1236.7	1238.1	1239.5	1239.5	1238.1	1236.7	1235.3	1233.9	1233.3
167.5°	1243.5	1245.4	1247.2	1249.0	1250.8	1251.1	1249.6	1248.2	1246.8	1245.4	1244.8
170°	1249.4	1251.2	1253.0	1254.9	1256.7	1256.9	1255.5	1254.1	1252.6	1251.2	1250.8
172.5°	1253.8	1255.6	1257.4	1259.2	1261.1	1261.3	1259.9	1258.4	1257.0	1255.6	1255.2
175°	1257.6	1259.6	1261.7	1263.7	1265.7	1266.0	1264.6	1263.2	1261.8	1260.3	1259.9
177.5°	1260.0	1261.4	1262.9	1264.4	1265.8	1266.0	1264.9	1263.7	1262.6	1261.4	1261.3
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



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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°	13.4	13.7	13.4	12.4	12.6	12.7	15.3	18.0	16.0	14.6	13.8
90°	15.0	13.4	11.8	9.8	7.6	5.4	3.1	0.9	3.1	5.4	7.6
92.5°	19.6	18.8	17.9	17.6	17.8	18.0	18.2	18.4	18.2	18.0	17.8
95°	32.8	31.4	29.9	32.6	39.3	46.0	52.7	59.4	52.7	46.0	39.3
97.5°	41.1	37.8	34.5	42.3	61.2	80.1	98.9	117.8	98.9	80.1	61.2
100°	45.2	41.7	38.3	50.4	78.2	106.0	133.8	161.7	133.8	106.0	78.2
102.5°	111.2	140.1	169.0	186.3	192.2	198.1	204.0	209.9	204.0	198.1	192.2
105°	166.5	221.9	277.3	302.0	295.9	289.8	283.7	277.6	283.7	289.8	295.9
107.5°	210.9	277.3	343.8	374.6	369.6	364.7	359.8	354.9	359.8	364.7	369.6
110°	277.1	335.8	394.4	421.6	417.4	413.1	408.9	404.6	408.9	413.1	417.4





TEST NUMBER: P331753

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	432.1	446.6	461.1	466.4	462.7	458.9	455.1	451.3	455.1	458.9	462.7
115°	553.4	548.3	543.2	538.9	535.5	532.0	528.6	525.1	528.6	532.0	535.5
117.5°	617.2	613.7	610.2	606.5	602.7	598.8	594.9	591.1	594.9	598.8	602.7
120°	662.1	658.5	654.8	651.5	648.4	645.4	642.3	639.3	642.3	645.4	648.4
122.5°	704.6	700.6	696.6	693.0	689.8	686.6	683.4	680.2	683.4	686.6	689.8
125°	764.0	760.2	756.3	753.1	750.4	747.8	745.1	742.5	745.1	747.8	750.4
127.5°	819.3	816.4	813.5	810.6	807.7	804.8	801.9	798.9	801.9	804.8	807.7
130°	854.9	852.7	850.5	847.7	844.5	841.2	838.0	834.8	838.0	841.2	844.5
132.5°	889.3	887.1	884.8	882.3	879.6	876.8	874.0	871.3	874.0	876.8	879.6
135°	938.0	936.1	934.3	931.8	928.5	925.3	922.0	918.8	922.0	925.3	928.5
137.5°	982.2	980.1	978.1	975.9	973.6	971.4	969.1	966.8	969.1	971.4	973.6
140°	1011.1	1008.9	1006.7	1004.7	1003.1	1001.5	999.9	998.2	999.9	1001.5	1003.1
142.5°	1037.5	1034.9	1032.4	1030.4	1028.9	1027.5	1026.0	1024.5	1026.0	1027.5	1028.9
145°	1073.5	1070.1	1066.6	1065.0	1065.2	1065.4	1065.6	1065.8	1065.6	1065.4	1065.2
147.5°	1106.9	1103.4	1100.0	1098.7	1099.5	1100.3	1101.0	1101.8	1101.0	1100.3	1099.5
150°	1126.9	1123.7	1120.4	1119.5	1120.9	1122.3	1123.8	1125.2	1123.8	1122.3	1120.9
152.5°	1145.5	1142.4	1139.3	1138.6	1140.2	1141.7	1143.3	1144.9	1143.3	1141.7	1140.2
155°	1171.5	1169.0	1166.6	1166.3	1168.1	1169.9	1171.8	1173.6	1171.8	1169.9	1168.1
157.5°	1193.4	1191.7	1190.0	1189.9	1191.4	1193.0	1194.5	1196.0	1194.5	1193.0	1191.4
160°	1206.8	1205.5	1204.3	1204.3	1205.5	1206.8	1208.0	1209.2	1208.0	1206.8	1205.5
162.5°	1218.0	1217.0	1215.9	1216.0	1217.2	1218.5	1219.7	1220.9	1219.7	1218.5	1217.2
165°	1232.6	1232.0	1231.4	1231.7	1232.9	1234.2	1235.4	1236.6	1235.4	1234.2	1232.9
167.5°	1244.2	1243.7	1243.1	1243.4	1244.6	1245.9	1247.1	1248.3	1247.1	1245.9	1244.6
170°	1250.4	1250.0	1249.6	1250.0	1251.2	1252.4	1253.6	1254.9	1253.6	1252.4	1251.2
172.5°	1254.8	1254.4	1254.0	1254.4	1255.6	1256.8	1258.0	1259.2	1258.0	1256.8	1255.6
175°	1259.5	1259.1	1258.7	1259.2	1260.6	1262.1	1263.5	1264.9	1263.5	1262.1	1260.6
177.5°	1261.1	1261.0	1260.8	1261.3	1262.4	1263.6	1264.7	1265.8	1264.7	1263.6	1262.4
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



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**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°	13.6	13.4	12.5	12.8	13.1	12.8	13.1	12.6	12.8	13.0	12.6
90°	9.8	11.8	13.4	15.0	16.6	18.3	19.3	20.3	21.3	22.3	23.0
92.5°	17.6	17.9	18.8	19.6	20.4	21.2	21.7	22.2	22.8	23.3	23.7
95°	32.6	29.9	31.4	32.8	34.2	35.6	36.6	37.6	38.7	39.7	40.1
97.5°	42.3	34.5	37.8	41.1	44.4	47.7	48.5	49.3	50.1	50.9	51.4
100°	50.4	38.3	41.7	45.2	48.6	52.1	53.7	55.3	56.9	58.6	59.6
102.5°	186.3	169.0	140.1	111.2	82.4	53.5	55.6	57.7	59.9	62.0	63.3
105°	302.0	277.3	221.9	166.5	111.1	55.7	57.9	60.2	62.4	64.6	66.2
107.5°	374.6	343.8	277.3	210.9	144.4	78.0	75.7	73.4	71.2	68.9	68.2
110°	421.6	394.4	335.8	277.1	218.5	159.8	139.5	119.2	98.9	78.6	68.9



TEST NUMBER: P331753

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	466.4	461.1	446.6	432.1	417.6	403.1	329.1	255.1	181.0	107.0	70.3
115°	538.9	543.2	548.3	553.4	558.4	563.5	469.5	375.6	281.6	187.6	133.3
117.5°	606.5	610.2	613.7	617.2	620.7	624.1	601.4	578.7	556.0	533.2	497.8
120°	651.5	654.8	658.5	662.1	665.8	669.4	671.9	674.3	676.8	679.2	666.7
122.5°	693.0	696.6	700.6	704.6	708.6	712.6	714.0	715.5	716.9	718.4	716.5
125°	753.1	756.3	760.2	764.0	767.9	771.7	773.2	774.6	776.0	777.4	778.4
127.5°	810.6	813.5	816.4	819.3	822.2	825.1	827.1	829.2	831.3	833.4	834.4
130°	847.7	850.5	852.7	854.9	857.2	859.4	861.6	863.9	866.1	868.3	869.4
132.5°	882.3	884.8	887.1	889.3	891.5	893.7	895.7	897.6	899.5	901.4	902.2
135°	931.8	934.3	936.1	938.0	939.8	941.6	943.6	945.7	947.7	949.7	950.5
137.5°	975.9	978.1	980.1	982.2	984.3	986.4	988.3	990.3	992.3	994.3	995.0
140°	1004.7	1006.7	1008.9	1011.1	1013.4	1015.6	1017.4	1019.2	1021.1	1022.9	1023.3
142.5°	1030.4	1032.4	1034.9	1037.5	1040.1	1042.6	1044.3	1045.9	1047.6	1049.3	1049.6
145°	1065.0	1066.6	1070.1	1073.5	1077.0	1080.4	1081.8	1083.3	1084.7	1086.1	1086.3
147.5°	1098.7	1100.0	1103.4	1106.9	1110.3	1113.7	1114.7	1115.8	1116.8	1117.9	1118.0
150°	1119.5	1120.4	1123.7	1126.9	1130.2	1133.4	1134.6	1135.8	1137.1	1138.3	1138.4
152.5°	1138.6	1139.3	1142.4	1145.5	1148.6	1151.7	1152.9	1154.1	1155.3	1156.5	1156.5
155°	1166.3	1166.6	1169.0	1171.5	1173.9	1176.3	1177.5	1178.8	1180.0	1181.2	1181.0
157.5°	1189.9	1190.0	1191.7	1193.4	1195.1	1196.8	1198.2	1199.5	1200.9	1202.3	1202.2
160°	1204.3	1204.3	1205.5	1206.8	1208.0	1209.2	1210.4	1211.6	1212.9	1214.1	1214.0
162.5°	1216.0	1215.9	1217.0	1218.0	1219.1	1220.2	1221.5	1222.9	1224.3	1225.7	1225.5
165°	1231.7	1231.4	1232.0	1232.6	1233.3	1233.9	1235.3	1236.7	1238.1	1239.5	1239.5
167.5°	1243.4	1243.1	1243.7	1244.2	1244.8	1245.4	1246.8	1248.2	1249.6	1251.1	1250.8
170°	1250.0	1249.6	1250.0	1250.4	1250.8	1251.2	1252.6	1254.1	1255.5	1256.9	1256.7
172.5°	1254.4	1254.0	1254.4	1254.8	1255.2	1255.6	1257.0	1258.4	1259.9	1261.3	1261.1
175°	1259.2	1258.7	1259.1	1259.5	1259.9	1260.3	1261.8	1263.2	1264.6	1266.0	1265.7
177.5°	1261.3	1260.8	1261.0	1261.1	1261.3	1261.4	1262.6	1263.7	1264.9	1266.0	1265.8
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



TEST NUMBER: P331753

CATALOG NUMBER: SA2XXRDIP-C1005D925U835-4F0-1E-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°	12.7	12.1	12.8	12.3	12.8	12.1	12.7	12.6	13.0	12.8	12.6
90°	23.4	23.8	24.3	24.7	24.3	23.8	23.4	23.0	22.3	21.3	20.3
92.5°	23.9	24.2	24.4	24.7	24.4	24.2	23.9	23.7	23.3	22.8	22.2
95°	39.9	39.7	39.5	39.3	39.5	39.7	39.9	40.1	39.7	38.7	37.6
97.5°	51.7	51.9	52.2	52.4	52.2	51.9	51.7	51.4	50.9	50.1	49.3
100°	60.0	60.4	60.8	61.2	60.8	60.4	60.0	59.6	58.6	56.9	55.3
102.5°	63.9	64.4	65.0	65.6	65.0	64.4	63.9	63.3	62.0	59.9	57.7
105°	67.0	67.8	68.6	69.4	68.6	67.8	67.0	66.2	64.6	62.4	60.2
107.5°	69.0	69.8	70.6	71.4	70.6	69.8	69.0	68.2	68.9	71.2	73.4
110°	69.7	70.5	71.3	72.2	71.3	70.5	69.7	68.9	78.6	98.9	119.2



TEST NUMBER: P331753

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	70.9	71.6	72.2	72.9	72.2	71.6	70.9	70.3	107.0	181.0	255.1
115°	118.7	104.1	89.5	74.9	89.5	104.1	118.7	133.3	187.6	281.6	375.6
117.5°	449.8	401.8	353.8	305.8	353.8	401.8	449.8	497.8	533.2	556.0	578.7
120°	639.3	611.9	584.5	557.1	584.5	611.9	639.3	666.7	679.2	676.8	674.3
122.5°	711.2	705.8	700.5	695.2	700.5	705.8	711.2	716.5	718.4	716.9	715.5
125°	779.0	779.6	780.3	780.9	780.3	779.6	779.0	778.4	777.4	776.0	774.6
127.5°	834.6	834.7	834.8	834.9	834.8	834.7	834.6	834.4	833.4	831.3	829.2
130°	869.2	868.9	868.7	868.5	868.7	868.9	869.2	869.4	868.3	866.1	863.9
132.5°	902.0	901.8	901.6	901.4	901.6	901.8	902.0	902.2	901.4	899.5	897.6
135°	950.1	949.7	949.3	948.9	949.3	949.7	950.1	950.5	949.7	947.7	945.7
137.5°	994.3	993.6	992.9	992.2	992.9	993.6	994.3	995.0	994.3	992.3	990.3
140°	1022.3	1021.3	1020.3	1019.2	1020.3	1021.3	1022.3	1023.3	1022.9	1021.1	1019.2
142.5°	1048.6	1047.6	1046.6	1045.5	1046.6	1047.6	1048.6	1049.6	1049.3	1047.6	1045.9
145°	1085.3	1084.3	1083.3	1082.3	1083.3	1084.3	1085.3	1086.3	1086.1	1084.7	1083.3
147.5°	1117.1	1116.3	1115.4	1114.6	1115.4	1116.3	1117.1	1118.0	1117.9	1116.8	1115.8
150°	1137.4	1136.3	1135.3	1134.3	1135.3	1136.3	1137.4	1138.4	1138.3	1137.1	1135.8
152.5°	1155.1	1153.8	1152.5	1151.1	1152.5	1153.8	1155.1	1156.5	1156.5	1155.3	1154.1
155°	1179.4	1177.7	1176.1	1174.5	1176.1	1177.7	1179.4	1181.0	1181.2	1180.0	1178.8
157.5°	1200.6	1199.0	1197.4	1195.9	1197.4	1199.0	1200.6	1202.2	1202.3	1200.9	1199.5
160°	1212.5	1211.1	1209.7	1208.3	1209.7	1211.1	1212.5	1214.0	1214.1	1212.9	1211.6
162.5°	1223.8	1222.0	1220.3	1218.5	1220.3	1222.0	1223.8	1225.5	1225.7	1224.3	1222.9
165°	1238.1	1236.7	1235.3	1233.9	1235.3	1236.7	1238.1	1239.5	1239.5	1238.1	1236.7
167.5°	1249.0	1247.2	1245.4	1243.5	1245.4	1247.2	1249.0	1250.8	1251.1	1249.6	1248.2
170°	1254.9	1253.0	1251.2	1249.4	1251.2	1253.0	1254.9	1256.7	1256.9	1255.5	1254.1
172.5°	1259.2	1257.4	1255.6	1253.8	1255.6	1257.4	1259.2	1261.1	1261.3	1259.9	1258.4
175°	1263.7	1261.7	1259.6	1257.6	1259.6	1261.7	1263.7	1265.7	1266.0	1264.6	1263.2
177.5°	1264.4	1262.9	1261.4	1260.0	1261.4	1262.9	1264.4	1265.8	1266.0	1264.9	1263.7
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



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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°	13.1	12.8	13.1	12.8	12.5	13.4	13.6	13.8	14.6	16.0	18.0
90°	19.3	18.3	16.6	15.0	13.4	11.8	9.8	7.6	5.4	3.1	0.9
92.5°	21.7	21.2	20.4	19.6	18.8	17.9	17.6	17.8	18.0	18.2	18.4
95°	36.6	35.6	34.2	32.8	31.4	29.9	32.6	39.3	46.0	52.7	59.4
97.5°	48.5	47.7	44.4	41.1	37.8	34.5	42.3	61.2	80.1	98.9	117.8
100°	53.7	52.1	48.6	45.2	41.7	38.3	50.4	78.2	106.0	133.8	161.7
102.5°	55.6	53.5	82.4	111.2	140.1	169.0	186.3	192.2	198.1	204.0	209.9
105°	57.9	55.7	111.1	166.5	221.9	277.3	302.0	295.9	289.8	283.7	277.6
107.5°	75.7	78.0	144.4	210.9	277.3	343.8	374.6	369.6	364.7	359.8	354.9
110°	139.5	159.8	218.5	277.1	335.8	394.4	421.6	417.4	413.1	408.9	404.6



TEST NUMBER: P331753

CATALOG NUMBER: SA2XXRDIP-C1005D925U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	329.1	403.1	417.6	432.1	446.6	461.1	466.4	462.7	458.9	455.1	451.3
115°	469.5	563.5	558.4	553.4	548.3	543.2	538.9	535.5	532.0	528.6	525.1
117.5°	601.4	624.1	620.7	617.2	613.7	610.2	606.5	602.7	598.8	594.9	591.1
120°	671.9	669.4	665.8	662.1	658.5	654.8	651.5	648.4	645.4	642.3	639.3
122.5°	714.0	712.6	708.6	704.6	700.6	696.6	693.0	689.8	686.6	683.4	680.2
125°	773.2	771.7	767.9	764.0	760.2	756.3	753.1	750.4	747.8	745.1	742.5
127.5°	827.1	825.1	822.2	819.3	816.4	813.5	810.6	807.7	804.8	801.9	798.9
130°	861.6	859.4	857.2	854.9	852.7	850.5	847.7	844.5	841.2	838.0	834.8
132.5°	895.7	893.7	891.5	889.3	887.1	884.8	882.3	879.6	876.8	874.0	871.3
135°	943.6	941.6	939.8	938.0	936.1	934.3	931.8	928.5	925.3	922.0	918.8
137.5°	988.3	986.4	984.3	982.2	980.1	978.1	975.9	973.6	971.4	969.1	966.8
140°	1017.4	1015.6	1013.4	1011.1	1008.9	1006.7	1004.7	1003.1	1001.5	999.9	998.2
142.5°	1044.3	1042.6	1040.1	1037.5	1034.9	1032.4	1030.4	1028.9	1027.5	1026.0	1024.5
145°	1081.8	1080.4	1077.0	1073.5	1070.1	1066.6	1065.0	1065.2	1065.4	1065.6	1065.8
147.5°	1114.7	1113.7	1110.3	1106.9	1103.4	1100.0	1098.7	1099.5	1100.3	1101.0	1101.8
150°	1134.6	1133.4	1130.2	1126.9	1123.7	1120.4	1119.5	1120.9	1122.3	1123.8	1125.2
152.5°	1152.9	1151.7	1148.6	1145.5	1142.4	1139.3	1138.6	1140.2	1141.7	1143.3	1144.9
155°	1177.5	1176.3	1173.9	1171.5	1169.0	1166.6	1166.3	1168.1	1169.9	1171.8	1173.6
157.5°	1198.2	1196.8	1195.1	1193.4	1191.7	1190.0	1189.9	1191.4	1193.0	1194.5	1196.0
160°	1210.4	1209.2	1208.0	1206.8	1205.5	1204.3	1204.3	1205.5	1206.8	1208.0	1209.2
162.5°	1221.5	1220.2	1219.1	1218.0	1217.0	1215.9	1216.0	1217.2	1218.5	1219.7	1220.9
165°	1235.3	1233.9	1233.3	1232.6	1232.0	1231.4	1231.7	1232.9	1234.2	1235.4	1236.6
167.5°	1246.8	1245.4	1244.8	1244.2	1243.7	1243.1	1243.4	1244.6	1245.9	1247.1	1248.3
170°	1252.6	1251.2	1250.8	1250.4	1250.0	1249.6	1250.0	1251.2	1252.4	1253.6	1254.9
172.5°	1257.0	1255.6	1255.2	1254.8	1254.4	1254.0	1254.4	1255.6	1256.8	1258.0	1259.2
175°	1261.8	1260.3	1259.9	1259.5	1259.1	1258.7	1259.2	1260.6	1262.1	1263.5	1264.9
177.5°	1262.6	1261.4	1261.3	1261.1	1261.0	1260.8	1261.3	1262.4	1263.6	1264.7	1265.8
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



TEST NUMBER: P331753

CATALOG NUMBER: SA2XXRDIP-C1005D925U835-4F0-1E-UDD-A

**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°	15.3	12.7	12.6	12.4	13.4	13.7	13.4	13.8	14.7	14.3	15.1
90°	3.1	5.4	7.6	9.8	11.8	13.4	15.0	16.6	18.3	19.3	20.3
92.5°	18.2	18.0	17.8	17.6	17.9	18.8	19.6	20.4	21.2	21.7	22.2
95°	52.7	46.0	39.3	32.6	29.9	31.4	32.8	34.2	35.6	36.6	37.6
97.5°	98.9	80.1	61.2	42.3	34.5	37.8	41.1	44.4	47.7	48.5	49.3
100°	133.8	106.0	78.2	50.4	38.3	41.7	45.2	48.6	52.1	53.7	55.3
102.5°	204.0	198.1	192.2	186.3	169.0	140.1	111.2	82.4	53.5	55.6	57.7
105°	283.7	289.8	295.9	302.0	277.3	221.9	166.5	111.1	55.7	57.9	60.2
107.5°	359.8	364.7	369.6	374.6	343.8	277.3	210.9	144.4	78.0	75.7	73.4
110°	408.9	413.1	417.4	421.6	394.4	335.8	277.1	218.5	159.8	139.5	119.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	455.1	458.9	462.7	466.4	461.1	446.6	432.1	417.6	403.1	329.1	255.1
115°	528.6	532.0	535.5	538.9	543.2	548.3	553.4	558.4	563.5	469.5	375.6
117.5°	594.9	598.8	602.7	606.5	610.2	613.7	617.2	620.7	624.1	601.4	578.7
120°	642.3	645.4	648.4	651.5	654.8	658.5	662.1	665.8	669.4	671.9	674.3
122.5°	683.4	686.6	689.8	693.0	696.6	700.6	704.6	708.6	712.6	714.0	715.5
125°	745.1	747.8	750.4	753.1	756.3	760.2	764.0	767.9	771.7	773.2	774.6
127.5°	801.9	804.8	807.7	810.6	813.5	816.4	819.3	822.2	825.1	827.1	829.2
130°	838.0	841.2	844.5	847.7	850.5	852.7	854.9	857.2	859.4	861.6	863.9
132.5°	874.0	876.8	879.6	882.3	884.8	887.1	889.3	891.5	893.7	895.7	897.6
135°	922.0	925.3	928.5	931.8	934.3	936.1	938.0	939.8	941.6	943.6	945.7
137.5°	969.1	971.4	973.6	975.9	978.1	980.1	982.2	984.3	986.4	988.3	990.3
140°	999.9	1001.5	1003.1	1004.7	1006.7	1008.9	1011.1	1013.4	1015.6	1017.4	1019.2
142.5°	1026.0	1027.5	1028.9	1030.4	1032.4	1034.9	1037.5	1040.1	1042.6	1044.3	1045.9
145°	1065.6	1065.4	1065.2	1065.0	1066.6	1070.1	1073.5	1077.0	1080.4	1081.8	1083.3
147.5°	1101.0	1100.3	1099.5	1098.7	1100.0	1103.4	1106.9	1110.3	1113.7	1114.7	1115.8
150°	1123.8	1122.3	1120.9	1119.5	1120.4	1123.7	1126.9	1130.2	1133.4	1134.6	1135.8
152.5°	1143.3	1141.7	1140.2	1138.6	1139.3	1142.4	1145.5	1148.6	1151.7	1152.9	1154.1
155°	1171.8	1169.9	1168.1	1166.3	1166.6	1169.0	1171.5	1173.9	1176.3	1177.5	1178.8
157.5°	1194.5	1193.0	1191.4	1189.9	1190.0	1191.7	1193.4	1195.1	1196.8	1198.2	1199.5
160°	1208.0	1206.8	1205.5	1204.3	1204.3	1205.5	1206.8	1208.0	1209.2	1210.4	1211.6
162.5°	1219.7	1218.5	1217.2	1216.0	1215.9	1217.0	1218.0	1219.1	1220.2	1221.5	1222.9
165°	1235.4	1234.2	1232.9	1231.7	1231.4	1232.0	1232.6	1233.3	1233.9	1235.3	1236.7
167.5°	1247.1	1245.9	1244.6	1243.4	1243.1	1243.7	1244.2	1244.8	1245.4	1246.8	1248.2
170°	1253.6	1252.4	1251.2	1250.0	1249.6	1250.0	1250.4	1250.8	1251.2	1252.6	1254.1
172.5°	1258.0	1256.8	1255.6	1254.4	1254.0	1254.4	1254.8	1255.2	1255.6	1257.0	1258.4
175°	1263.5	1262.1	1260.6	1259.2	1258.7	1259.1	1259.5	1259.9	1260.3	1261.8	1263.2
177.5°	1264.7	1263.6	1262.4	1261.3	1260.8	1261.0	1261.1	1261.3	1261.4	1262.6	1263.7
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2



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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°	14.7	14.9	15.0	15.1	15.2	15.3	14.7
90°	21.3	22.3	23.0	23.4	23.8	24.3	24.7
92.5°	22.8	23.3	23.7	23.9	24.2	24.4	24.7
95°	38.7	39.7	40.1	39.9	39.7	39.5	39.3
97.5°	50.1	50.9	51.4	51.7	51.9	52.2	52.4
100°	56.9	58.6	59.6	60.0	60.4	60.8	61.2
102.5°	59.9	62.0	63.3	63.9	64.4	65.0	65.6
105°	62.4	64.6	66.2	67.0	67.8	68.6	69.4
107.5°	71.2	68.9	68.2	69.0	69.8	70.6	71.4
110°	98.9	78.6	68.9	69.7	70.5	71.3	72.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	181.0	107.0	70.3	70.9	71.6	72.2	72.9
115°	281.6	187.6	133.3	118.7	104.1	89.5	74.9
117.5°	556.0	533.2	497.8	449.8	401.8	353.8	305.8
120°	676.8	679.2	666.7	639.3	611.9	584.5	557.1
122.5°	716.9	718.4	716.5	711.2	705.8	700.5	695.2
125°	776.0	777.4	778.4	779.0	779.6	780.3	780.9
127.5°	831.3	833.4	834.4	834.6	834.7	834.8	834.9
130°	866.1	868.3	869.4	869.2	868.9	868.7	868.5
132.5°	899.5	901.4	902.2	902.0	901.8	901.6	901.4
135°	947.7	949.7	950.5	950.1	949.7	949.3	948.9
137.5°	992.3	994.3	995.0	994.3	993.6	992.9	992.2
140°	1021.1	1022.9	1023.3	1022.3	1021.3	1020.3	1019.2
142.5°	1047.6	1049.3	1049.6	1048.6	1047.6	1046.6	1045.5
145°	1084.7	1086.1	1086.3	1085.3	1084.3	1083.3	1082.3
147.5°	1116.8	1117.9	1118.0	1117.1	1116.3	1115.4	1114.6
150°	1137.1	1138.3	1138.4	1137.4	1136.3	1135.3	1134.3
152.5°	1155.3	1156.5	1156.5	1155.1	1153.8	1152.5	1151.1
155°	1180.0	1181.2	1181.0	1179.4	1177.7	1176.1	1174.5
157.5°	1200.9	1202.3	1202.2	1200.6	1199.0	1197.4	1195.9
160°	1212.9	1214.1	1214.0	1212.5	1211.1	1209.7	1208.3
162.5°	1224.3	1225.7	1225.5	1223.8	1222.0	1220.3	1218.5
165°	1238.1	1239.5	1239.5	1238.1	1236.7	1235.3	1233.9
167.5°	1249.6	1251.1	1250.8	1249.0	1247.2	1245.4	1243.5
170°	1255.5	1256.9	1256.7	1254.9	1253.0	1251.2	1249.4
172.5°	1259.9	1261.3	1261.1	1259.2	1257.4	1255.6	1253.8
175°	1264.6	1266.0	1265.7	1263.7	1261.7	1259.6	1257.6
177.5°	1264.9	1266.0	1265.8	1264.4	1262.9	1261.4	1260.0
180°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2

(END OF REPORT)