

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: P331854

Luminaire Tested: **S122RDIW-S1005D970U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331854  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S1005D970U835-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

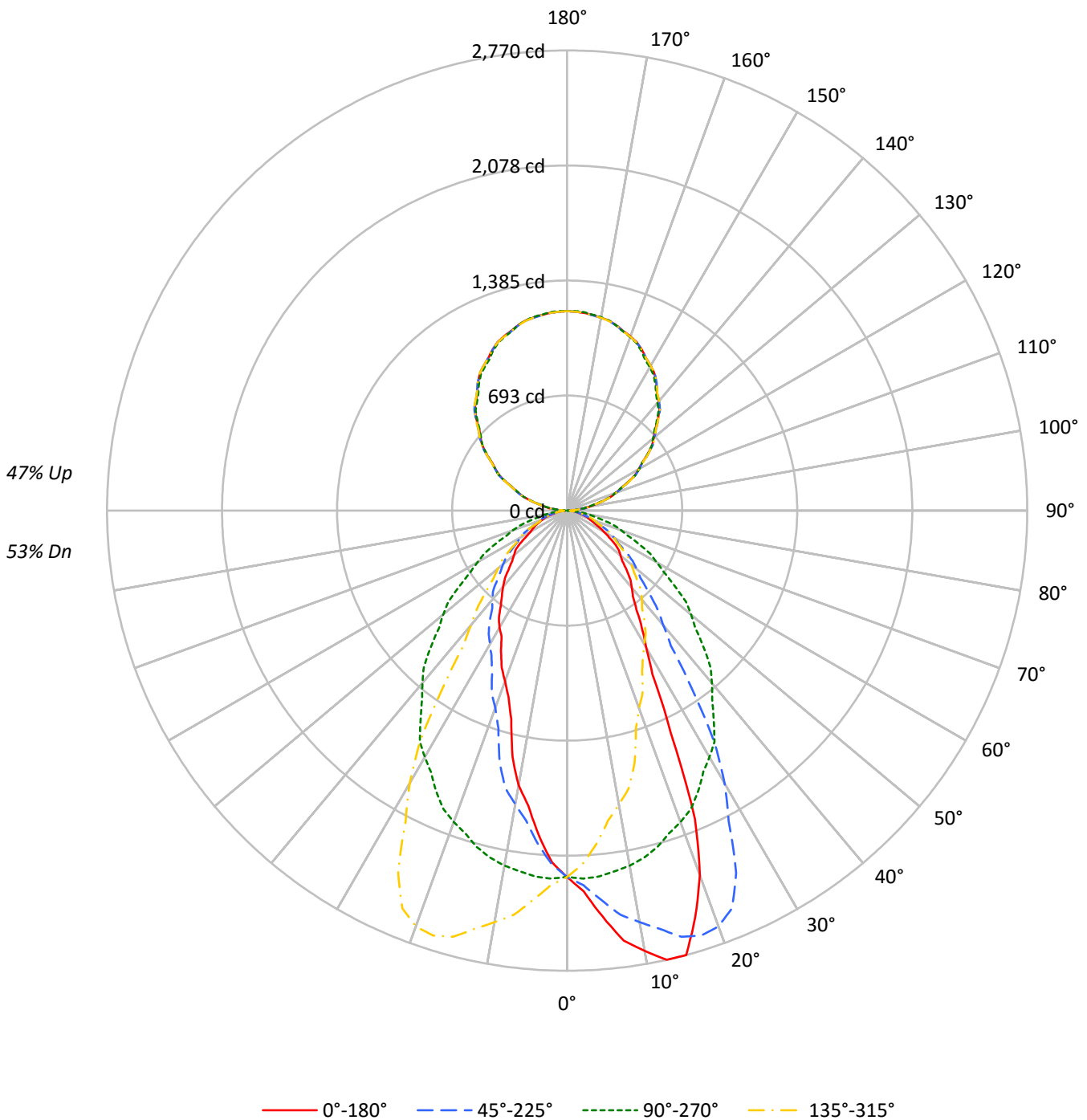
Lumens per Lamp: N/A  
Luminaire Lumens: 7172.3 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53				53
1	99	95	92	88	92	88	85	83	76	74	72	64	63	61	53	52	51	46				46
2	91	84	78	74	84	78	73	69	67	64	61	57	55	52	48	46	45	40				40
3	84	75	68	62	77	70	64	59	60	56	52	52	48	45	43	41	39	35				35
4	77	67	59	54	71	63	56	51	54	49	45	47	43	40	39	37	35	31				31
5	71	60	52	47	66	56	49	44	49	44	40	42	38	35	36	33	31	28				28
6	66	54	47	41	61	51	44	39	45	39	35	39	35	31	33	30	28	25				25
7	61	49	42	37	57	47	40	35	41	35	32	36	31	28	31	27	25	22				22
8	57	45	38	33	53	43	36	31	38	32	28	33	29	26	28	25	23	20				20
9	53	42	34	30	50	39	33	28	35	29	26	30	26	23	26	23	21	19				19
10	50	38	31	27	47	36	30	26	32	27	23	28	24	21	25	21	19	17				17

**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	2.9
10°-20°	582.5	8.1
20°-30°	750.7	10.5
30°-40°	713.4	9.9
40°-50°	611.1	8.5
50°-60°	465.4	6.5
60°-70°	294.2	4.1
70°-80°	146.9	2.0
80°-90°	43.0	0.6
90°-100°	76.0	1.1
100°-110°	236.2	3.3
110°-120°	403.8	5.6
120°-130°	531.0	7.4
130°-140°	595.9	8.3
140°-150°	584.3	8.1
150°-160°	490.1	6.8
160°-170°	325.1	4.5
170°-180°	113.6	1.6
0°-30°	1542.3	21.5
0°-40°	2255.7	31.4
0°-60°	3332.1	46.5
0°-90°	3816.3	53.2
90°-120°	716.0	10.0
90°-150°	2427.3	33.8
90°-180°	3356.0	46.8
0°-180°	7172.3	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	31
90°	34	1	34	1	34	16
95°	63	53	63	53	63	70
105°	225	218	225	218	225	237
115°	405	405	405	405	405	400
125°	592	590	592	590	592	527
135°	772	763	772	763	772	594
145°	936	926	936	926	936	584
155°	1066	1058	1066	1058	1066	491
165°	1153	1152	1153	1152	1153	325
175°	1194	1198	1194	1198	1194	113
180°	1200	1200	1200	1200	1200	



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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°	16.7	17.3	17.2	17.2	17.1	17.2	17.2	17.9	17.4	18.1	16.5
90°	34.4	34.2	34.0	33.8	33.5	33.6	34.1	34.5	35.0	35.4	30.5
92.5°	32.8	32.8	32.7	32.7	32.6	32.6	32.5	32.4	32.3	32.2	31.0
95°	62.8	63.2	63.7	64.1	64.6	64.8	64.8	64.8	64.8	64.8	64.4
97.5°	108.8	108.8	108.9	108.9	109.0	109.0	109.0	109.0	109.0	109.0	108.1
100°	138.8	139.0	139.2	139.4	139.7	139.8	139.8	139.8	139.8	139.8	139.1
102.5°	172.8	173.0	173.2	173.5	173.7	173.7	173.5	173.4	173.2	173.0	172.1
105°	224.9	224.9	224.9	224.9	224.9	224.6	224.2	223.7	223.3	222.8	222.4
107.5°	273.9	274.9	275.9	277.0	278.0	278.4	278.3	278.1	277.9	277.7	277.7
110°	312.0	312.6	313.3	314.0	314.7	315.0	315.0	315.0	315.0	315.0	315.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	348.4	348.9	349.4	349.9	350.4	350.9	351.5	352.0	352.5	353.1	353.3
115°	405.1	405.8	406.5	407.2	407.8	408.3	408.5	408.7	409.0	409.2	409.6
117.5°	459.2	459.9	460.6	461.3	461.9	462.5	463.1	463.6	464.2	464.7	466.0
120°	497.3	498.0	498.7	499.3	500.0	500.4	500.4	500.4	500.4	500.4	502.2
122.5°	534.6	535.1	535.6	536.1	536.6	537.1	537.6	538.2	538.7	539.2	540.5
125°	591.5	591.7	592.0	592.2	592.4	592.9	593.5	594.2	594.9	595.6	596.2
127.5°	643.4	644.1	644.8	645.5	646.2	647.0	647.8	648.6	649.4	650.3	651.1
130°	680.6	681.5	682.4	683.3	684.2	684.9	685.4	685.8	686.3	686.7	687.2
132.5°	716.3	717.0	717.7	718.5	719.2	720.0	721.0	722.0	723.0	724.0	723.9
135°	771.8	772.5	773.1	773.8	774.5	774.9	775.2	775.4	775.6	775.8	775.4
137.5°	822.0	822.9	823.8	824.7	825.6	826.2	826.4	826.5	826.7	826.9	826.3
140°	856.9	857.8	858.7	859.6	860.5	860.9	860.9	860.9	860.9	860.9	859.8
142.5°	888.5	889.4	890.3	891.2	892.1	892.4	892.3	892.1	891.9	891.7	891.0
145°	935.9	936.8	937.7	938.6	939.5	939.8	939.6	939.4	939.1	938.9	937.6
147.5°	978.2	979.1	979.9	980.8	981.6	981.8	981.3	980.8	980.3	979.8	978.9
150°	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5	1007.8	1007.1	1006.4	1005.8	1004.9
152.5°	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1	1034.3	1033.4	1032.5	1031.7	1030.6
155°	1066.5	1067.2	1067.9	1068.6	1069.2	1069.0	1067.9	1066.8	1065.6	1064.5	1063.8
157.5°	1096.5	1097.6	1098.7	1099.8	1100.8	1100.6	1099.1	1097.6	1096.0	1094.5	1094.1
160°	1115.2	1116.1	1117.0	1117.9	1118.8	1118.5	1117.2	1115.8	1114.5	1113.1	1112.9
162.5°	1131.4	1132.4	1133.5	1134.6	1135.7	1135.5	1133.9	1132.4	1130.9	1129.3	1129.1
165°	1152.6	1153.8	1154.9	1156.0	1157.1	1156.9	1155.3	1153.8	1152.2	1150.6	1150.6
167.5°	1170.1	1171.2	1172.4	1173.6	1174.7	1174.5	1173.0	1171.4	1169.8	1168.2	1168.3
170°	1179.0	1180.3	1181.7	1183.0	1184.4	1184.3	1182.7	1181.1	1179.5	1178.0	1178.2
172.5°	1186.3	1187.6	1189.0	1190.3	1191.7	1191.5	1190.0	1188.4	1186.8	1185.2	1185.5
175°	1194.2	1195.5	1196.9	1198.2	1199.6	1199.4	1197.9	1196.3	1194.7	1193.1	1193.6
177.5°	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1	1201.0	1200.0	1198.9	1197.8	1198.2
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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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°	15.5	15.2	14.2	12.8	12.9	12.9	15.5	18.0	16.1	14.8	14.1
90°	25.5	20.6	15.6	11.8	9.1	6.4	3.7	1.0	3.7	6.4	9.1
92.5°	29.9	28.7	27.5	26.0	24.0	22.0	20.0	18.0	20.0	22.0	24.0
95°	63.9	63.5	63.0	61.7	59.4	57.2	54.9	52.7	54.9	57.2	59.4
97.5°	107.3	106.4	105.6	104.1	102.2	100.2	98.2	96.2	98.2	100.2	102.2
100°	138.4	137.7	137.1	135.8	134.0	132.2	130.4	128.6	130.4	132.2	134.0
102.5°	171.3	170.4	169.6	168.4	167.0	165.5	164.1	162.7	164.1	165.5	167.0
105°	221.9	221.5	221.0	220.5	219.8	219.1	218.4	217.8	218.4	219.1	219.8
107.5°	277.7	277.7	277.7	277.2	276.2	275.2	274.3	273.3	274.3	275.2	276.2
110°	315.0	315.0	315.0	314.3	313.0	311.6	310.3	308.9	310.3	311.6	313.0





TEST NUMBER: P331854

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	353.4	353.6	353.8	353.2	351.9	350.5	349.2	347.8	349.2	350.5	351.9
115°	410.1	410.5	411.0	410.5	409.2	407.8	406.5	405.1	406.5	407.8	409.2
117.5°	467.2	468.5	469.7	469.5	467.7	465.9	464.1	462.3	464.1	465.9	467.7
120°	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4	502.2	504.0	505.8
122.5°	541.8	543.0	544.3	543.8	541.7	539.5	537.4	535.2	537.4	539.5	541.7
125°	596.9	597.6	598.3	597.6	595.6	593.5	591.5	589.5	591.5	593.5	595.6
127.5°	651.9	652.7	653.5	652.6	650.1	647.5	644.9	642.4	644.9	647.5	650.1
130°	687.6	688.1	688.5	687.3	684.4	681.4	678.5	675.6	678.5	681.4	684.4
132.5°	723.8	723.7	723.6	722.4	720.0	717.6	715.2	712.8	715.2	717.6	720.0
135°	774.9	774.5	774.0	772.6	770.1	767.6	765.2	762.7	765.2	767.6	770.1
137.5°	825.7	825.1	824.6	823.2	821.2	819.2	817.2	815.1	817.2	819.2	821.2
140°	858.7	857.6	856.4	854.8	852.8	850.8	848.8	846.7	848.8	850.8	852.8
142.5°	890.2	889.4	888.7	887.3	885.2	883.2	881.2	879.2	881.2	883.2	885.2
145°	936.2	934.9	933.5	932.1	930.5	928.9	927.3	925.7	927.3	928.9	930.5
147.5°	978.0	977.1	976.2	974.8	972.9	971.1	969.2	967.3	969.2	971.1	972.9
150°	1004.0	1003.1	1002.2	1001.0	999.7	998.3	997.0	995.6	997.0	998.3	999.7
152.5°	1029.5	1028.5	1027.4	1026.2	1024.8	1023.5	1022.1	1020.8	1022.1	1023.5	1024.8
155°	1063.2	1062.5	1061.8	1061.1	1060.5	1059.8	1059.1	1058.4	1059.1	1059.8	1060.5
157.5°	1093.7	1093.3	1092.9	1092.4	1092.0	1091.5	1091.1	1090.6	1091.1	1091.5	1092.0
160°	1112.7	1112.5	1112.2	1111.9	1111.4	1111.0	1110.5	1110.1	1110.5	1111.0	1111.4
162.5°	1128.9	1128.7	1128.4	1128.3	1128.2	1128.1	1128.0	1127.9	1128.0	1128.1	1128.2
165°	1150.6	1150.6	1150.6	1150.7	1150.9	1151.2	1151.4	1151.6	1151.4	1151.2	1150.9
167.5°	1168.3	1168.4	1168.4	1168.8	1169.4	1170.1	1170.8	1171.5	1170.8	1170.1	1169.4
170°	1178.4	1178.6	1178.9	1179.3	1180.0	1180.7	1181.3	1182.0	1181.3	1180.7	1180.0
172.5°	1185.7	1185.9	1186.1	1186.6	1187.3	1187.9	1188.6	1189.3	1188.6	1187.9	1187.3
175°	1194.0	1194.5	1194.9	1195.5	1196.2	1196.9	1197.5	1198.2	1197.5	1196.9	1196.2
177.5°	1198.5	1198.9	1199.2	1199.7	1200.2	1200.8	1201.3	1201.9	1201.3	1200.8	1200.2
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



TEST NUMBER: P331854

CATALOG NUMBER: S122RDIW-S1005D970U835-4F0-1E-UDD-A1

**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°	14.0	14.2	13.9	14.9	15.9	16.3	16.2	15.5	15.4	15.3	14.7
90°	11.8	15.6	20.6	25.5	30.5	35.4	35.0	34.5	34.1	33.6	33.5
92.5°	26.0	27.5	28.7	29.9	31.0	32.2	32.3	32.4	32.5	32.6	32.6
95°	61.7	63.0	63.5	63.9	64.4	64.8	64.8	64.8	64.8	64.8	64.6
97.5°	104.1	105.6	106.4	107.3	108.1	109.0	109.0	109.0	109.0	109.0	109.0
100°	135.8	137.1	137.7	138.4	139.1	139.8	139.8	139.8	139.8	139.8	139.7
102.5°	168.4	169.6	170.4	171.3	172.1	173.0	173.2	173.4	173.5	173.7	173.7
105°	220.5	221.0	221.5	221.9	222.4	222.8	223.3	223.7	224.2	224.6	224.9
107.5°	277.2	277.7	277.7	277.7	277.7	277.7	277.9	278.1	278.3	278.4	278.0
110°	314.3	315.0	315.0	315.0	315.0	315.0	315.0	315.0	315.0	315.0	314.7



TEST NUMBER: P331854

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	353.2	353.8	353.6	353.4	353.3	353.1	352.5	352.0	351.5	350.9	350.4
115°	410.5	411.0	410.5	410.1	409.6	409.2	409.0	408.7	408.5	408.3	407.8
117.5°	469.5	469.7	468.5	467.2	466.0	464.7	464.2	463.6	463.1	462.5	461.9
120°	507.6	507.6	505.8	504.0	502.2	500.4	500.4	500.4	500.4	500.4	500.0
122.5°	543.8	544.3	543.0	541.8	540.5	539.2	538.7	538.2	537.6	537.1	536.6
125°	597.6	598.3	597.6	596.9	596.2	595.6	594.9	594.2	593.5	592.9	592.4
127.5°	652.6	653.5	652.7	651.9	651.1	650.3	649.4	648.6	647.8	647.0	646.2
130°	687.3	688.5	688.1	687.6	687.2	686.7	686.3	685.8	685.4	684.9	684.2
132.5°	722.4	723.6	723.7	723.8	723.9	724.0	723.0	722.0	721.0	720.0	719.2
135°	772.6	774.0	774.5	774.9	775.4	775.8	775.6	775.4	775.2	774.9	774.5
137.5°	823.2	824.6	825.1	825.7	826.3	826.9	826.7	826.5	826.4	826.2	825.6
140°	854.8	856.4	857.6	858.7	859.8	860.9	860.9	860.9	860.9	860.9	860.5
142.5°	887.3	888.7	889.4	890.2	891.0	891.7	891.9	892.1	892.3	892.4	892.1
145°	932.1	933.5	934.9	936.2	937.6	938.9	939.1	939.4	939.6	939.8	939.5
147.5°	974.8	976.2	977.1	978.0	978.9	979.8	980.3	980.8	981.3	981.8	981.6
150°	1001.0	1002.2	1003.1	1004.0	1004.9	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5
152.5°	1026.2	1027.4	1028.5	1029.5	1030.6	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1
155°	1061.1	1061.8	1062.5	1063.2	1063.8	1064.5	1065.6	1066.8	1067.9	1069.0	1069.2
157.5°	1092.4	1092.9	1093.3	1093.7	1094.1	1094.5	1096.0	1097.6	1099.1	1100.6	1100.8
160°	1111.9	1112.2	1112.5	1112.7	1112.9	1113.1	1114.5	1115.8	1117.2	1118.5	1118.8
162.5°	1128.3	1128.4	1128.7	1128.9	1129.1	1129.3	1130.9	1132.4	1133.9	1135.5	1135.7
165°	1150.7	1150.6	1150.6	1150.6	1150.6	1150.6	1152.2	1153.8	1155.3	1156.9	1157.1
167.5°	1168.8	1168.4	1168.4	1168.3	1168.3	1168.2	1169.8	1171.4	1173.0	1174.5	1174.7
170°	1179.3	1178.9	1178.6	1178.4	1178.2	1178.0	1179.5	1181.1	1182.7	1184.3	1184.4
172.5°	1186.6	1186.1	1185.9	1185.7	1185.5	1185.2	1186.8	1188.4	1190.0	1191.5	1191.7
175°	1195.5	1194.9	1194.5	1194.0	1193.6	1193.1	1194.7	1196.3	1197.9	1199.4	1199.6
177.5°	1199.7	1199.2	1198.9	1198.5	1198.2	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



TEST NUMBER: P331854

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**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°	14.7	14.2	14.8	14.2	14.8	14.2	14.7	14.7	15.3	15.4	15.5
90°	33.8	34.0	34.2	34.4	34.2	34.0	33.8	33.5	33.6	34.1	34.5
92.5°	32.7	32.7	32.8	32.8	32.8	32.7	32.7	32.6	32.6	32.5	32.4
95°	64.1	63.7	63.2	62.8	63.2	63.7	64.1	64.6	64.8	64.8	64.8
97.5°	108.9	108.9	108.8	108.8	108.8	108.9	108.9	109.0	109.0	109.0	109.0
100°	139.4	139.2	139.0	138.8	139.0	139.2	139.4	139.7	139.8	139.8	139.8
102.5°	173.5	173.2	173.0	172.8	173.0	173.2	173.5	173.7	173.7	173.5	173.4
105°	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.6	224.2	223.7
107.5°	277.0	275.9	274.9	273.9	274.9	275.9	277.0	278.0	278.4	278.3	278.1
110°	314.0	313.3	312.6	312.0	312.6	313.3	314.0	314.7	315.0	315.0	315.0



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	349.9	349.4	348.9	348.4	348.9	349.4	349.9	350.4	350.9	351.5	352.0
115°	407.2	406.5	405.8	405.1	405.8	406.5	407.2	407.8	408.3	408.5	408.7
117.5°	461.3	460.6	459.9	459.2	459.9	460.6	461.3	461.9	462.5	463.1	463.6
120°	499.3	498.7	498.0	497.3	498.0	498.7	499.3	500.0	500.4	500.4	500.4
122.5°	536.1	535.6	535.1	534.6	535.1	535.6	536.1	536.6	537.1	537.6	538.2
125°	592.2	592.0	591.7	591.5	591.7	592.0	592.2	592.4	592.9	593.5	594.2
127.5°	645.5	644.8	644.1	643.4	644.1	644.8	645.5	646.2	647.0	647.8	648.6
130°	683.3	682.4	681.5	680.6	681.5	682.4	683.3	684.2	684.9	685.4	685.8
132.5°	718.5	717.7	717.0	716.3	717.0	717.7	718.5	719.2	720.0	721.0	722.0
135°	773.8	773.1	772.5	771.8	772.5	773.1	773.8	774.5	774.9	775.2	775.4
137.5°	824.7	823.8	822.9	822.0	822.9	823.8	824.7	825.6	826.2	826.4	826.5
140°	859.6	858.7	857.8	856.9	857.8	858.7	859.6	860.5	860.9	860.9	860.9
142.5°	891.2	890.3	889.4	888.5	889.4	890.3	891.2	892.1	892.4	892.3	892.1
145°	938.6	937.7	936.8	935.9	936.8	937.7	938.6	939.5	939.8	939.6	939.4
147.5°	980.8	979.9	979.1	978.2	979.1	979.9	980.8	981.6	981.8	981.3	980.8
150°	1007.8	1007.1	1006.4	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5	1007.8	1007.1
152.5°	1034.3	1033.4	1032.5	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1	1034.3	1033.4
155°	1068.6	1067.9	1067.2	1066.5	1067.2	1067.9	1068.6	1069.2	1069.0	1067.9	1066.8
157.5°	1099.8	1098.7	1097.6	1096.5	1097.6	1098.7	1099.8	1100.8	1100.6	1099.1	1097.6
160°	1117.9	1117.0	1116.1	1115.2	1116.1	1117.0	1117.9	1118.8	1118.5	1117.2	1115.8
162.5°	1134.6	1133.5	1132.4	1131.4	1132.4	1133.5	1134.6	1135.7	1135.5	1133.9	1132.4
165°	1156.0	1154.9	1153.8	1152.6	1153.8	1154.9	1156.0	1157.1	1156.9	1155.3	1153.8
167.5°	1173.6	1172.4	1171.2	1170.1	1171.2	1172.4	1173.6	1174.7	1174.5	1173.0	1171.4
170°	1183.0	1181.7	1180.3	1179.0	1180.3	1181.7	1183.0	1184.4	1184.3	1182.7	1181.1
172.5°	1190.3	1189.0	1187.6	1186.3	1187.6	1189.0	1190.3	1191.7	1191.5	1190.0	1188.4
175°	1198.2	1196.9	1195.5	1194.2	1195.5	1196.9	1198.2	1199.6	1199.4	1197.9	1196.3
177.5°	1201.0	1200.0	1198.9	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1	1201.0	1200.0
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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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°	16.2	16.3	15.9	14.9	13.9	14.2	14.0	14.1	14.8	16.1	18.0
90°	35.0	35.4	30.5	25.5	20.6	15.6	11.8	9.1	6.4	3.7	1.0
92.5°	32.3	32.2	31.0	29.9	28.7	27.5	26.0	24.0	22.0	20.0	18.0
95°	64.8	64.8	64.4	63.9	63.5	63.0	61.7	59.4	57.2	54.9	52.7
97.5°	109.0	109.0	108.1	107.3	106.4	105.6	104.1	102.2	100.2	98.2	96.2
100°	139.8	139.8	139.1	138.4	137.7	137.1	135.8	134.0	132.2	130.4	128.6
102.5°	173.2	173.0	172.1	171.3	170.4	169.6	168.4	167.0	165.5	164.1	162.7
105°	223.3	222.8	222.4	221.9	221.5	221.0	220.5	219.8	219.1	218.4	217.8
107.5°	277.9	277.7	277.7	277.7	277.7	277.7	277.2	276.2	275.2	274.3	273.3
110°	315.0	315.0	315.0	315.0	315.0	315.0	314.3	313.0	311.6	310.3	308.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	352.5	353.1	353.3	353.4	353.6	353.8	353.2	351.9	350.5	349.2	347.8
115°	409.0	409.2	409.6	410.1	410.5	411.0	410.5	409.2	407.8	406.5	405.1
117.5°	464.2	464.7	466.0	467.2	468.5	469.7	469.5	467.7	465.9	464.1	462.3
120°	500.4	500.4	502.2	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4
122.5°	538.7	539.2	540.5	541.8	543.0	544.3	543.8	541.7	539.5	537.4	535.2
125°	594.9	595.6	596.2	596.9	597.6	598.3	597.6	595.6	593.5	591.5	589.5
127.5°	649.4	650.3	651.1	651.9	652.7	653.5	652.6	650.1	647.5	644.9	642.4
130°	686.3	686.7	687.2	687.6	688.1	688.5	687.3	684.4	681.4	678.5	675.6
132.5°	723.0	724.0	723.9	723.8	723.7	723.6	722.4	720.0	717.6	715.2	712.8
135°	775.6	775.8	775.4	774.9	774.5	774.0	772.6	770.1	767.6	765.2	762.7
137.5°	826.7	826.9	826.3	825.7	825.1	824.6	823.2	821.2	819.2	817.2	815.1
140°	860.9	860.9	859.8	858.7	857.6	856.4	854.8	852.8	850.8	848.8	846.7
142.5°	891.9	891.7	891.0	890.2	889.4	888.7	887.3	885.2	883.2	881.2	879.2
145°	939.1	938.9	937.6	936.2	934.9	933.5	932.1	930.5	928.9	927.3	925.7
147.5°	980.3	979.8	978.9	978.0	977.1	976.2	974.8	972.9	971.1	969.2	967.3
150°	1006.4	1005.8	1004.9	1004.0	1003.1	1002.2	1001.0	999.7	998.3	997.0	995.6
152.5°	1032.5	1031.7	1030.6	1029.5	1028.5	1027.4	1026.2	1024.8	1023.5	1022.1	1020.8
155°	1065.6	1064.5	1063.8	1063.2	1062.5	1061.8	1061.1	1060.5	1059.8	1059.1	1058.4
157.5°	1096.0	1094.5	1094.1	1093.7	1093.3	1092.9	1092.4	1092.0	1091.5	1091.1	1090.6
160°	1114.5	1113.1	1112.9	1112.7	1112.5	1112.2	1111.9	1111.4	1111.0	1110.5	1110.1
162.5°	1130.9	1129.3	1129.1	1128.9	1128.7	1128.4	1128.3	1128.2	1128.1	1128.0	1127.9
165°	1152.2	1150.6	1150.6	1150.6	1150.6	1150.6	1150.7	1150.9	1151.2	1151.4	1151.6
167.5°	1169.8	1168.2	1168.3	1168.3	1168.4	1168.4	1168.8	1169.4	1170.1	1170.8	1171.5
170°	1179.5	1178.0	1178.2	1178.4	1178.6	1178.9	1179.3	1180.0	1180.7	1181.3	1182.0
172.5°	1186.8	1185.2	1185.5	1185.7	1185.9	1186.1	1186.6	1187.3	1187.9	1188.6	1189.3
175°	1194.7	1193.1	1193.6	1194.0	1194.5	1194.9	1195.5	1196.2	1196.9	1197.5	1198.2
177.5°	1198.9	1197.8	1198.2	1198.5	1198.9	1199.2	1199.7	1200.2	1200.8	1201.3	1201.9
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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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°	15.5	12.9	12.9	12.8	14.2	15.2	15.5	16.5	18.1	17.4	17.9
90°	3.7	6.4	9.1	11.8	15.6	20.6	25.5	30.5	35.4	35.0	34.5
92.5°	20.0	22.0	24.0	26.0	27.5	28.7	29.9	31.0	32.2	32.3	32.4
95°	54.9	57.2	59.4	61.7	63.0	63.5	63.9	64.4	64.8	64.8	64.8
97.5°	98.2	100.2	102.2	104.1	105.6	106.4	107.3	108.1	109.0	109.0	109.0
100°	130.4	132.2	134.0	135.8	137.1	137.7	138.4	139.1	139.8	139.8	139.8
102.5°	164.1	165.5	167.0	168.4	169.6	170.4	171.3	172.1	173.0	173.2	173.4
105°	218.4	219.1	219.8	220.5	221.0	221.5	221.9	222.4	222.8	223.3	223.7
107.5°	274.3	275.2	276.2	277.2	277.7	277.7	277.7	277.7	277.7	277.9	278.1
110°	310.3	311.6	313.0	314.3	315.0	315.0	315.0	315.0	315.0	315.0	315.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	349.2	350.5	351.9	353.2	353.8	353.6	353.4	353.3	353.1	352.5	352.0
115°	406.5	407.8	409.2	410.5	411.0	410.5	410.1	409.6	409.2	409.0	408.7
117.5°	464.1	465.9	467.7	469.5	469.7	468.5	467.2	466.0	464.7	464.2	463.6
120°	502.2	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4	500.4	500.4
122.5°	537.4	539.5	541.7	543.8	544.3	543.0	541.8	540.5	539.2	538.7	538.2
125°	591.5	593.5	595.6	597.6	598.3	597.6	596.9	596.2	595.6	594.9	594.2
127.5°	644.9	647.5	650.1	652.6	653.5	652.7	651.9	651.1	650.3	649.4	648.6
130°	678.5	681.4	684.4	687.3	688.5	688.1	687.6	687.2	686.7	686.3	685.8
132.5°	715.2	717.6	720.0	722.4	723.6	723.7	723.8	723.9	724.0	723.0	722.0
135°	765.2	767.6	770.1	772.6	774.0	774.5	774.9	775.4	775.8	775.6	775.4
137.5°	817.2	819.2	821.2	823.2	824.6	825.1	825.7	826.3	826.9	826.7	826.5
140°	848.8	850.8	852.8	854.8	856.4	857.6	858.7	859.8	860.9	860.9	860.9
142.5°	881.2	883.2	885.2	887.3	888.7	889.4	890.2	891.0	891.7	891.9	892.1
145°	927.3	928.9	930.5	932.1	933.5	934.9	936.2	937.6	938.9	939.1	939.4
147.5°	969.2	971.1	972.9	974.8	976.2	977.1	978.0	978.9	979.8	980.3	980.8
150°	997.0	998.3	999.7	1001.0	1002.2	1003.1	1004.0	1004.9	1005.8	1006.4	1007.1
152.5°	1022.1	1023.5	1024.8	1026.2	1027.4	1028.5	1029.5	1030.6	1031.7	1032.5	1033.4
155°	1059.1	1059.8	1060.5	1061.1	1061.8	1062.5	1063.2	1063.8	1064.5	1065.6	1066.8
157.5°	1091.1	1091.5	1092.0	1092.4	1092.9	1093.3	1093.7	1094.1	1094.5	1096.0	1097.6
160°	1110.5	1111.0	1111.4	1111.9	1112.2	1112.5	1112.7	1112.9	1113.1	1114.5	1115.8
162.5°	1128.0	1128.1	1128.2	1128.3	1128.4	1128.7	1128.9	1129.1	1129.3	1130.9	1132.4
165°	1151.4	1151.2	1150.9	1150.7	1150.6	1150.6	1150.6	1150.6	1150.6	1152.2	1153.8
167.5°	1170.8	1170.1	1169.4	1168.8	1168.4	1168.4	1168.3	1168.3	1168.2	1169.8	1171.4
170°	1181.3	1180.7	1180.0	1179.3	1178.9	1178.6	1178.4	1178.2	1178.0	1179.5	1181.1
172.5°	1188.6	1187.9	1187.3	1186.6	1186.1	1185.9	1185.7	1185.5	1185.2	1186.8	1188.4
175°	1197.5	1196.9	1196.2	1195.5	1194.9	1194.5	1194.0	1193.6	1193.1	1194.7	1196.3
177.5°	1201.3	1200.8	1200.2	1199.7	1199.2	1198.9	1198.5	1198.2	1197.8	1198.9	1200.0
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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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°	17.2	17.2	17.1	17.2	17.2	17.3	16.7
90°	34.1	33.6	33.5	33.8	34.0	34.2	34.4
92.5°	32.5	32.6	32.6	32.7	32.7	32.8	32.8
95°	64.8	64.8	64.6	64.1	63.7	63.2	62.8
97.5°	109.0	109.0	109.0	108.9	108.9	108.8	108.8
100°	139.8	139.8	139.7	139.4	139.2	139.0	138.8
102.5°	173.5	173.7	173.7	173.5	173.2	173.0	172.8
105°	224.2	224.6	224.9	224.9	224.9	224.9	224.9
107.5°	278.3	278.4	278.0	277.0	275.9	274.9	273.9
110°	315.0	315.0	314.7	314.0	313.3	312.6	312.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	351.5	350.9	350.4	349.9	349.4	348.9	348.4
115°	408.5	408.3	407.8	407.2	406.5	405.8	405.1
117.5°	463.1	462.5	461.9	461.3	460.6	459.9	459.2
120°	500.4	500.4	500.0	499.3	498.7	498.0	497.3
122.5°	537.6	537.1	536.6	536.1	535.6	535.1	534.6
125°	593.5	592.9	592.4	592.2	592.0	591.7	591.5
127.5°	647.8	647.0	646.2	645.5	644.8	644.1	643.4
130°	685.4	684.9	684.2	683.3	682.4	681.5	680.6
132.5°	721.0	720.0	719.2	718.5	717.7	717.0	716.3
135°	775.2	774.9	774.5	773.8	773.1	772.5	771.8
137.5°	826.4	826.2	825.6	824.7	823.8	822.9	822.0
140°	860.9	860.9	860.5	859.6	858.7	857.8	856.9
142.5°	892.3	892.4	892.1	891.2	890.3	889.4	888.5
145°	939.6	939.8	939.5	938.6	937.7	936.8	935.9
147.5°	981.3	981.8	981.6	980.8	979.9	979.1	978.2
150°	1007.8	1008.5	1008.5	1007.8	1007.1	1006.4	1005.8
152.5°	1034.3	1035.1	1035.1	1034.3	1033.4	1032.5	1031.7
155°	1067.9	1069.0	1069.2	1068.6	1067.9	1067.2	1066.5
157.5°	1099.1	1100.6	1100.8	1099.8	1098.7	1097.6	1096.5
160°	1117.2	1118.5	1118.8	1117.9	1117.0	1116.1	1115.2
162.5°	1133.9	1135.5	1135.7	1134.6	1133.5	1132.4	1131.4
165°	1155.3	1156.9	1157.1	1156.0	1154.9	1153.8	1152.6
167.5°	1173.0	1174.5	1174.7	1173.6	1172.4	1171.2	1170.1
170°	1182.7	1184.3	1184.4	1183.0	1181.7	1180.3	1179.0
172.5°	1190.0	1191.5	1191.7	1190.3	1189.0	1187.6	1186.3
175°	1197.9	1199.4	1199.6	1198.2	1196.9	1195.5	1194.2
177.5°	1201.0	1202.1	1202.1	1201.0	1200.0	1198.9	1197.8
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2

(END OF REPORT)