

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: P331858-840

Luminaire Tested: **S122RDIW-S1005D1240U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331858-840
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-S1005D1240U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8194.1 lumens
Efficiency: N/A
Efficacy: 107.5 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

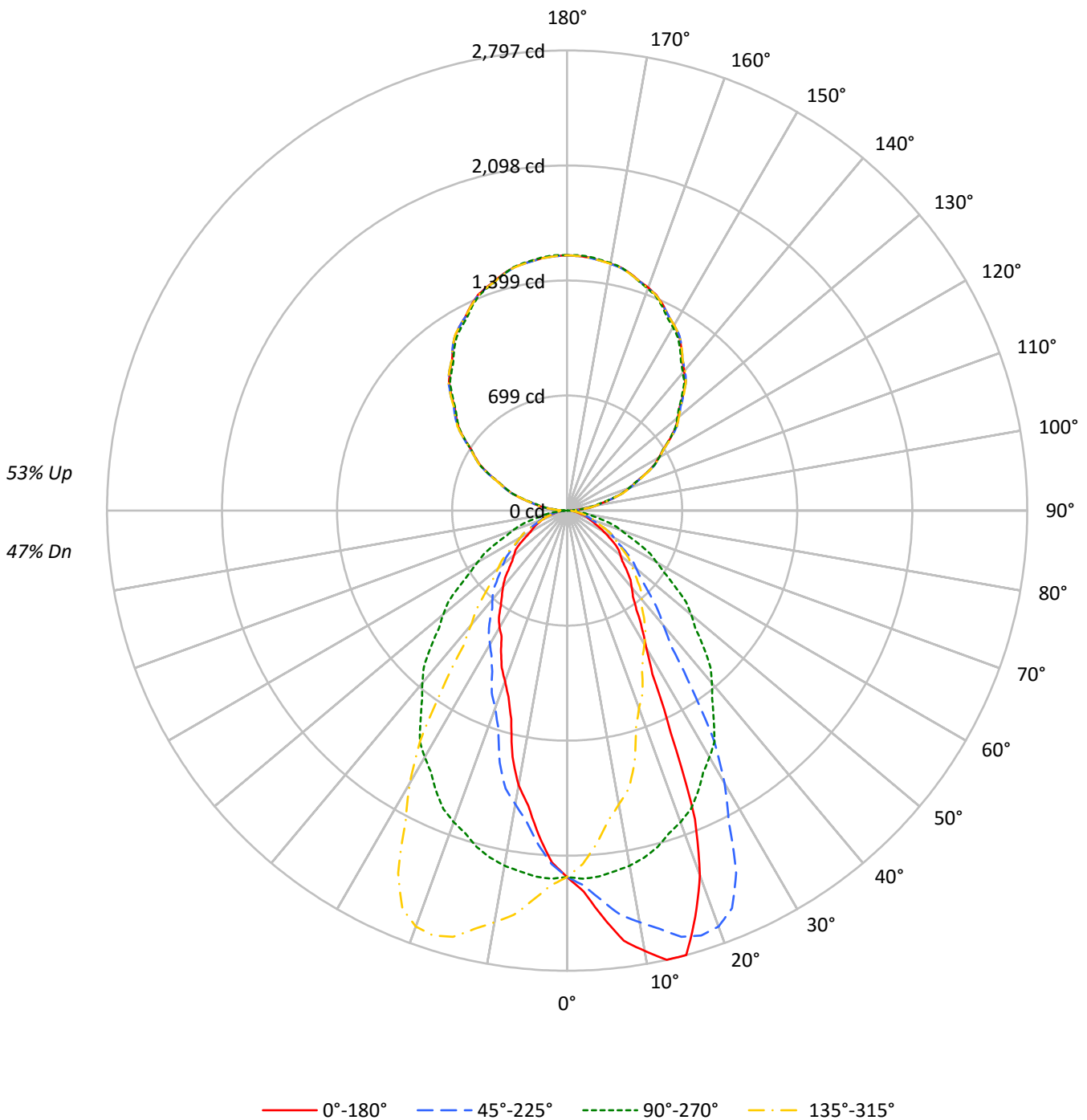
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	98	94	90	87	90	86	83	81	73	70	68	60	58	57	48	47	46	41
2	90	83	77	72	82	76	72	67	65	61	58	54	51	49	43	42	40	36
3	82	73	67	61	76	68	62	57	58	53	50	48	45	42	39	37	35	31
4	76	66	58	52	70	61	54	49	52	47	43	43	40	37	36	33	31	27
5	70	59	51	46	64	55	48	43	47	42	38	39	36	33	33	30	28	24
6	65	53	45	40	59	49	43	38	42	37	33	36	32	29	30	27	25	22
7	60	48	41	35	55	45	38	34	39	34	30	33	29	26	28	25	22	20
8	56	44	37	32	51	41	35	30	36	30	27	30	26	24	26	23	20	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	24	21	19	17
10	49	37	30	26	45	35	29	25	30	25	22	26	22	20	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35960	35960	35960	35960
5°	40161	36185	32083	36185
10°	44558	35931	27811	35931
15°	46748	35405	21912	35405
20°	40527	34625	18962	34625
25°	26580	33556	16930	33556
30°	17890	32261	15321	32261
35°	14491	30628	13819	30628
40°	12886	28854	12787	28854
45°	11663	26772	11415	26772
50°	10613	24707	10575	24707
55°	9979	22415	9847	22415
60°	8344	20315	8247	20315
65°	7037	18449	7981	18449
70°	6500	16475	7530	16475
75°	6089	14336	6949	14336
80°	5616	11799	6192	11799
85°	5169	9318	5446	9318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	2.6
10°-20°	588.3	7.2
20°-30°	758.1	9.3
30°-40°	720.4	8.8
40°-50°	617.1	7.5
50°-60°	470.0	5.7
60°-70°	297.1	3.6
70°-80°	148.4	1.8
80°-90°	44.8	0.5
90°-100°	98.3	1.2
100°-110°	305.4	3.7
110°-120°	522.0	6.4
120°-130°	686.4	8.4
130°-140°	770.4	9.4
140°-150°	755.4	9.2
150°-160°	633.6	7.7
160°-170°	420.3	5.1
170°-180°	146.9	1.8
0°-30°	1557.5	19.0
0°-40°	2277.9	27.8
0°-60°	3365.0	41.1
0°-90°	3855.3	47.0
90°-120°	925.7	11.3
90°-150°	3138.0	38.3
90°-180°	4339.0	53.0
0°-180°	8194.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2227	2227	2227	2227	2227	
5°	2478	2233	1980	2233	2478	245
15°	2797	2118	1311	2118	2797	754
25°	1492	1884	950	1884	1492	708
35°	735	1554	701	1554	735	470
45°	511	1172	500	1172	511	395
55°	354	796	350	796	354	311
65°	184	483	209	483	184	187
75°	98	230	111	230	98	103
85°	28	50	29	50	28	31
90°	44	1	44	1	44	21
95°	81	68	81	68	81	91
105°	291	282	291	282	291	306
115°	524	524	524	524	524	517
125°	765	762	765	762	765	682
135°	998	986	998	986	998	768
145°	1210	1197	1210	1197	1210	756
155°	1379	1368	1379	1368	1379	635
165°	1490	1489	1490	1489	1490	420
175°	1544	1549	1544	1549	1544	147
180°	1552	1552	1552	1552	1552	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2317.5	2319.5	2321.3	2316.9	2316.9	2313.2	2305.2	2299.0	2281.7	2279.2	2279.2
5°	2477.9	2476.4	2479.4	2469.4	2455.5	2452.4	2437.7	2418.3	2398.2	2375.8	2371.2
7.5°	2637.4	2635.0	2628.8	2627.2	2616.5	2593.0	2569.4	2544.2	2510.7	2478.1	2461.6
10°	2717.8	2743.4	2727.8	2700.8	2706.2	2669.9	2650.5	2617.3	2589.4	2540.6	2529.8
12.5°	2797.0	2807.1	2802.2	2786.8	2779.9	2754.6	2728.5	2699.6	2648.2	2604.3	2566.3
15°	2796.7	2811.5	2815.3	2810.7	2814.6	2813.0	2799.0	2775.1	2730.2	2682.2	2640.4
17.5°	2590.3	2600.5	2625.9	2643.0	2664.7	2710.6	2733.1	2742.0	2735.3	2708.0	2678.5
20°	2358.7	2341.7	2412.9	2449.3	2480.2	2557.6	2624.1	2649.7	2690.7	2690.0	2682.2
22.5°	2030.6	2034.7	2102.1	2145.4	2235.7	2313.1	2388.9	2485.1	2564.5	2616.9	2647.6
25°	1492.0	1521.5	1588.7	1647.6	1748.2	1892.1	2022.9	2174.5	2317.7	2430.7	2538.3
27.5°	1120.5	1122.8	1176.1	1230.4	1290.2	1408.2	1572.8	1753.9	1958.0	2126.5	2320.2
30°	959.6	954.9	977.3	1010.7	1061.8	1153.1	1276.9	1454.9	1658.4	1912.2	2138.2
32.5°	845.7	846.0	862.8	887.5	929.9	991.5	1076.3	1220.8	1413.2	1662.7	1927.7
35°	735.2	734.4	746.8	764.6	782.3	821.8	879.9	955.7	1088.0	1321.0	1591.9
37.5°	655.9	659.3	665.4	676.5	696.2	718.1	753.0	803.9	898.2	1035.9	1263.5
40°	611.4	612.9	621.4	630.7	642.3	659.3	687.9	729.0	797.9	907.8	1074.1
42.5°	570.5	572.1	578.0	586.7	595.9	612.9	636.6	672.1	727.9	813.6	950.9
45°	510.8	510.8	516.1	520.1	530.1	545.5	564.9	594.3	633.0	696.5	787.8
47.5°	454.7	454.8	458.5	465.1	471.4	483.5	502.5	526.5	554.7	603.8	681.8
50°	422.5	423.3	425.7	431.0	434.9	445.8	460.5	481.3	510.8	548.7	613.7
52.5°	396.6	396.1	399.0	401.3	403.9	411.7	422.7	441.1	467.4	500.4	554.2
55°	354.5	351.3	356.0	359.8	362.1	365.3	371.4	383.0	405.5	433.3	473.6
57.5°	301.8	300.5	303.9	307.4	314.7	323.1	328.3	335.7	347.3	367.3	407.2
60°	258.4	258.4	265.4	267.7	276.3	287.1	297.9	304.2	315.8	328.9	358.3
62.5°	220.0	220.8	224.0	226.3	231.1	244.4	259.5	273.2	284.2	296.7	316.2
65°	184.2	185.7	185.7	187.2	190.4	193.5	199.7	210.5	229.8	247.6	262.4
67.5°	156.3	156.8	157.2	158.8	159.6	163.0	165.4	170.3	174.7	191.6	209.8
70°	137.7	140.1	139.3	140.9	141.6	143.2	146.2	148.6	155.5	159.5	170.3
72.5°	120.4	122.1	122.0	122.9	124.9	125.2	127.6	130.0	134.5	137.7	143.6
75°	97.6	96.7	97.6	99.1	99.9	100.6	100.6	103.7	106.0	109.1	113.0
77.5°	75.2	76.0	75.8	76.0	76.1	77.6	77.4	78.8	81.1	82.6	84.5
80°	60.4	61.1	60.4	61.1	61.9	62.7	61.9	62.7	65.0	66.6	66.6
82.5°	46.8	46.9	47.4	47.6	47.7	47.9	48.9	49.1	50.8	50.5	51.1
85°	27.9	27.1	27.1	27.1	27.9	28.7	27.9	27.9	28.7	28.7	28.7
87.5°	18.8	19.4	19.3	19.3	19.2	19.2	19.4	20.1	19.6	20.3	18.4
90°	44.5	44.2	43.9	43.6	43.3	43.5	44.1	44.6	45.2	45.8	39.4
92.5°	42.4	42.4	42.3	42.2	42.2	42.1	42.0	41.9	41.7	41.6	40.1
95°	81.2	81.8	82.3	82.9	83.5	83.8	83.8	83.8	83.8	83.8	83.2
97.5°	140.7	140.7	140.8	140.8	140.9	140.9	140.9	140.9	140.9	140.9	139.8
100°	179.4	179.7	180.0	180.3	180.6	180.7	180.7	180.7	180.7	180.7	179.9
102.5°	223.4	223.7	224.0	224.3	224.6	224.6	224.4	224.1	223.9	223.7	222.6
105°	290.7	290.7	290.7	290.7	290.7	290.4	289.8	289.2	288.6	288.1	287.5
107.5°	354.1	355.4	356.8	358.1	359.4	360.0	359.7	359.5	359.3	359.0	359.0
110°	403.3	404.1	405.1	406.0	406.8	407.3	407.3	407.3	407.3	407.3	407.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	450.4	451.1	451.7	452.3	453.0	453.6	454.3	455.0	455.8	456.5	456.7
115°	523.8	524.6	525.5	526.4	527.3	527.9	528.2	528.5	528.8	529.0	529.6
117.5°	593.7	594.6	595.4	596.3	597.2	597.9	598.6	599.4	600.1	600.8	602.4
120°	643.0	643.8	644.7	645.5	646.4	646.8	646.8	646.8	646.8	646.8	649.1
122.5°	691.2	691.8	692.4	693.1	693.7	694.4	695.1	695.8	696.4	697.1	698.7
125°	764.7	765.0	765.3	765.6	765.9	766.5	767.3	768.2	769.1	769.9	770.8
127.5°	831.7	832.7	833.6	834.6	835.5	836.5	837.5	838.6	839.6	840.6	841.7
130°	879.9	881.1	882.3	883.4	884.6	885.4	886.1	886.7	887.2	887.8	888.4
132.5°	926.0	927.0	927.9	928.9	929.8	930.9	932.1	933.4	934.7	935.9	935.8
135°	997.7	998.7	999.6	1000.4	1001.3	1001.9	1002.2	1002.5	1002.7	1003.0	1002.5
137.5°	1062.8	1063.9	1065.1	1066.2	1067.4	1068.1	1068.3	1068.5	1068.8	1069.0	1068.2
140°	1107.8	1108.9	1110.1	1111.3	1112.5	1113.0	1113.0	1113.0	1113.0	1113.0	1111.6
142.5°	1148.6	1149.8	1150.9	1152.2	1153.3	1153.8	1153.6	1153.3	1153.1	1152.9	1151.9
145°	1209.9	1211.1	1212.2	1213.5	1214.6	1215.0	1214.8	1214.5	1214.2	1213.9	1212.1
147.5°	1264.7	1265.8	1266.9	1268.0	1269.1	1269.3	1268.7	1268.0	1267.4	1266.8	1265.6
150°	1300.3	1301.1	1302.0	1302.9	1303.7	1303.7	1302.9	1302.0	1301.1	1300.3	1299.1
152.5°	1333.8	1334.9	1336.1	1337.1	1338.2	1338.2	1337.1	1336.1	1334.9	1333.8	1332.4
155°	1378.9	1379.7	1380.6	1381.5	1382.3	1382.0	1380.6	1379.2	1377.7	1376.2	1375.3
157.5°	1417.5	1419.0	1420.4	1421.8	1423.2	1422.9	1420.9	1419.0	1416.9	1415.0	1414.4
160°	1441.7	1442.9	1444.0	1445.2	1446.3	1446.0	1444.3	1442.6	1440.8	1439.1	1438.8
162.5°	1462.7	1464.0	1465.4	1466.8	1468.2	1467.9	1465.9	1464.0	1462.0	1460.1	1459.8
165°	1490.2	1491.6	1493.1	1494.5	1495.9	1495.7	1493.6	1491.6	1489.6	1487.5	1487.5
167.5°	1512.7	1514.2	1515.7	1517.2	1518.7	1518.4	1516.4	1514.4	1512.4	1510.3	1510.4
170°	1524.2	1525.9	1527.7	1529.4	1531.2	1531.1	1528.9	1526.9	1524.9	1522.9	1523.2
172.5°	1533.6	1535.4	1537.1	1538.8	1540.5	1540.4	1538.4	1536.4	1534.4	1532.3	1532.6
175°	1543.8	1545.6	1547.3	1549.0	1550.8	1550.6	1548.6	1546.6	1544.6	1542.5	1543.1
177.5°	1548.5	1549.9	1551.4	1552.8	1554.1	1554.1	1552.8	1551.4	1549.9	1548.5	1549.0
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2280.5	2275.4	2271.2	2260.0	2254.4	2242.0	2240.2	2239.6	2223.5	2208.0	2203.6
5°	2358.7	2346.3	2327.8	2306.1	2283.7	2260.5	2245.0	2232.6	2201.6	2172.2	2155.3
7.5°	2437.7	2411.1	2379.0	2338.0	2303.8	2265.4	2237.0	2211.4	2167.5	2125.4	2097.0
10°	2496.5	2453.2	2410.5	2354.1	2310.0	2266.6	2226.4	2191.6	2142.0	2086.4	2046.9
12.5°	2533.0	2485.4	2426.7	2371.5	2314.3	2259.3	2205.3	2160.6	2102.4	2044.9	1998.0
15°	2582.4	2531.3	2460.1	2381.2	2307.6	2235.7	2173.8	2118.1	2042.3	1973.4	1916.1
17.5°	2622.8	2552.5	2476.1	2384.8	2299.7	2208.2	2128.5	2057.3	1972.9	1889.8	1822.3
20°	2635.7	2566.2	2477.9	2386.6	2286.0	2178.5	2092.5	2015.2	1924.6	1834.0	1756.7
22.5°	2627.8	2573.5	2475.5	2366.2	2263.1	2150.6	2053.6	1963.8	1863.3	1770.9	1681.1
25°	2573.1	2554.6	2461.6	2342.5	2224.8	2094.1	1981.9	1883.6	1769.1	1670.0	1572.5
27.5°	2445.7	2485.8	2428.2	2301.3	2170.5	2030.3	1904.2	1792.3	1673.4	1562.0	1464.8
30°	2323.2	2415.2	2390.5	2272.8	2126.6	1988.8	1847.2	1730.4	1603.5	1488.9	1393.0
32.5°	2155.4	2307.5	2331.7	2233.2	2082.0	1930.7	1782.2	1666.0	1533.5	1412.8	1319.3
35°	1888.2	2115.8	2220.2	2157.6	2005.9	1842.6	1689.3	1553.9	1420.8	1301.6	1208.8
37.5°	1569.5	1879.5	2053.6	2058.0	1918.7	1749.0	1582.1	1447.6	1311.4	1194.4	1094.0
40°	1362.8	1698.6	1925.4	1975.7	1858.1	1674.7	1505.9	1369.0	1235.9	1121.4	1006.0
42.5°	1177.1	1511.7	1790.4	1877.8	1784.4	1602.3	1432.9	1289.7	1160.3	1052.0	934.2
45°	951.9	1244.4	1551.6	1707.9	1656.1	1487.3	1308.6	1172.5	1050.9	957.3	844.2
47.5°	802.9	1009.2	1306.5	1517.8	1516.9	1362.9	1187.1	1056.6	943.9	856.2	764.8
50°	718.1	897.7	1149.2	1389.1	1409.2	1280.0	1112.8	983.6	878.4	786.3	712.8
52.5°	642.0	789.9	1016.1	1246.1	1303.3	1191.4	1029.3	909.9	807.8	723.1	660.1
55°	542.5	657.0	828.8	1043.9	1130.6	1051.7	907.8	796.3	713.5	642.3	588.1
57.5°	458.9	544.8	682.7	855.9	956.8	907.2	788.4	697.9	627.0	562.6	519.9
60°	406.3	476.7	593.6	738.3	849.7	814.9	713.5	629.1	568.8	513.1	472.8
62.5°	356.8	417.3	517.5	634.9	737.0	722.7	639.9	569.1	516.1	465.4	431.3
65°	287.1	331.2	409.4	501.5	583.5	590.5	530.9	482.9	435.7	395.5	365.3
67.5°	228.6	257.4	312.5	390.0	451.5	473.4	437.1	400.4	362.9	331.8	305.7
70°	192.7	215.9	256.1	318.8	375.4	398.5	377.7	349.0	316.5	290.9	268.5
72.5°	156.1	178.7	208.4	254.5	302.9	328.0	320.7	300.1	273.8	252.6	231.4
75°	117.6	124.6	144.7	175.7	213.6	235.3	240.7	229.8	208.9	192.7	180.3
77.5°	86.9	91.2	100.8	117.0	141.8	161.1	169.1	167.7	153.4	143.9	132.3
80°	69.7	72.0	76.6	83.6	102.2	121.5	126.9	126.9	116.8	113.0	101.4
82.5°	52.9	54.6	57.5	61.3	70.0	86.8	92.9	94.1	87.8	82.6	73.5
85°	30.2	29.4	31.0	33.3	34.8	39.5	48.8	50.3	48.8	42.5	40.2
87.5°	17.2	16.5	15.1	13.5	13.5	13.4	15.9	18.2	16.5	15.2	14.7
90°	33.0	26.7	20.2	15.2	11.8	8.3	4.8	1.3	4.8	8.3	11.8
92.5°	38.6	37.1	35.5	33.5	31.0	28.5	25.9	23.3	25.9	28.5	31.0
95°	82.6	82.1	81.5	79.8	76.9	73.9	71.0	68.1	71.0	73.9	76.9
97.5°	138.7	137.5	136.4	134.6	132.1	129.6	126.9	124.4	126.9	129.6	132.1
100°	178.9	178.0	177.2	175.6	173.3	171.0	168.6	166.3	168.6	171.0	173.3
102.5°	221.5	220.4	219.2	217.7	215.9	214.0	212.2	210.3	212.2	214.0	215.9
105°	286.9	286.3	285.8	285.0	284.2	283.3	282.4	281.6	282.4	283.3	284.2
107.5°	359.0	359.0	359.0	358.4	357.1	355.9	354.6	353.3	354.6	355.9	357.1
110°	407.3	407.3	407.3	406.4	404.7	402.8	401.1	399.4	401.1	402.8	404.7



TEST NUMBER: P331858-840

CATALOG NUMBER: S122RDIW-S1005D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	457.0	457.2	457.4	456.7	454.9	453.1	451.4	449.7	451.4	453.1	454.9
115°	530.2	530.8	531.3	530.8	529.0	527.3	525.5	523.8	525.5	527.3	529.0
117.5°	604.0	605.6	607.3	606.9	604.6	602.3	600.0	597.6	600.0	602.3	604.6
120°	651.6	653.9	656.2	656.2	653.9	651.6	649.1	646.8	649.1	651.6	653.9
122.5°	700.4	702.1	703.7	703.1	700.2	697.5	694.7	691.9	694.7	697.5	700.2
125°	771.7	772.5	773.5	772.5	769.9	767.3	764.7	762.0	764.7	767.3	769.9
127.5°	842.7	843.8	844.9	843.7	840.4	837.1	833.7	830.4	833.7	837.1	840.4
130°	889.0	889.6	890.1	888.5	884.7	881.0	877.2	873.4	877.2	881.0	884.7
132.5°	935.7	935.6	935.5	933.9	930.8	927.8	924.6	921.6	924.6	927.8	930.8
135°	1001.9	1001.3	1000.7	998.9	995.6	992.4	989.2	986.0	989.2	992.4	995.6
137.5°	1067.5	1066.7	1066.0	1064.3	1061.7	1059.0	1056.4	1053.8	1056.4	1059.0	1061.7
140°	1110.1	1108.6	1107.2	1105.2	1102.6	1099.9	1097.3	1094.7	1097.3	1099.9	1102.6
142.5°	1150.8	1149.8	1148.8	1147.1	1144.5	1141.9	1139.2	1136.6	1139.2	1141.9	1144.5
145°	1210.3	1208.6	1206.9	1205.0	1203.0	1200.9	1198.9	1196.8	1198.9	1200.9	1203.0
147.5°	1264.5	1263.2	1262.1	1260.3	1257.9	1255.4	1252.9	1250.5	1252.9	1255.4	1257.9
150°	1298.0	1296.8	1295.7	1294.1	1292.4	1290.7	1288.9	1287.2	1288.9	1290.7	1292.4
152.5°	1331.0	1329.6	1328.2	1326.7	1324.8	1323.1	1321.4	1319.7	1321.4	1323.1	1324.8
155°	1374.4	1373.6	1372.7	1371.9	1371.0	1370.1	1369.3	1368.4	1369.3	1370.1	1371.0
157.5°	1413.9	1413.4	1412.9	1412.3	1411.8	1411.2	1410.6	1410.0	1410.6	1411.2	1411.8
160°	1438.5	1438.1	1437.9	1437.4	1436.9	1436.3	1435.7	1435.1	1435.7	1436.3	1436.9
162.5°	1459.5	1459.2	1458.9	1458.6	1458.5	1458.4	1458.3	1458.1	1458.3	1458.4	1458.5
165°	1487.5	1487.5	1487.5	1487.6	1487.9	1488.2	1488.5	1488.8	1488.5	1488.2	1487.9
167.5°	1510.5	1510.5	1510.6	1511.0	1511.9	1512.8	1513.6	1514.5	1513.6	1512.8	1511.9
170°	1523.5	1523.8	1524.1	1524.6	1525.5	1526.4	1527.2	1528.1	1527.2	1526.4	1525.5
172.5°	1532.9	1533.2	1533.5	1534.1	1534.9	1535.8	1536.7	1537.5	1536.7	1535.8	1534.9
175°	1543.7	1544.3	1544.9	1545.6	1546.4	1547.3	1548.2	1549.0	1548.2	1547.3	1546.4
177.5°	1549.4	1549.9	1550.4	1551.0	1551.7	1552.4	1553.1	1553.8	1553.1	1552.4	1551.7
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



TEST NUMBER: P331858-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2195.6	2191.3	2183.2	2170.8	2163.4	2150.4	2141.7	2146.7	2148.0	2146.7	2145.5
5°	2136.7	2120.4	2098.0	2076.3	2056.2	2034.5	2022.2	2016.7	2005.9	1999.6	1996.6
7.5°	2065.3	2037.3	2005.6	1967.8	1935.7	1902.2	1885.0	1876.4	1854.3	1842.3	1831.7
10°	2012.1	1967.9	1936.2	1886.7	1856.5	1812.4	1782.2	1783.0	1752.8	1735.8	1723.4
12.5°	1953.3	1904.8	1852.0	1807.5	1765.5	1730.1	1693.6	1679.0	1647.0	1630.5	1597.1
15°	1855.7	1799.3	1743.5	1683.1	1640.6	1585.7	1533.1	1468.8	1416.9	1372.1	1359.7
17.5°	1749.3	1679.3	1623.5	1552.6	1479.7	1387.3	1326.3	1289.0	1257.7	1234.1	1216.4
20°	1676.2	1605.0	1545.4	1438.7	1340.3	1277.7	1232.7	1204.2	1171.6	1146.1	1132.2
22.5°	1599.4	1525.1	1443.9	1324.7	1248.1	1197.8	1157.8	1124.9	1102.9	1083.0	1070.3
25°	1490.5	1409.2	1275.4	1193.3	1131.4	1078.7	1050.9	1030.8	1007.5	980.5	968.2
27.5°	1375.3	1246.1	1149.9	1088.9	1029.9	995.6	970.6	940.6	919.8	907.6	894.7
30°	1289.3	1160.0	1085.0	1018.4	976.6	938.7	909.3	892.3	872.1	851.2	842.7
32.5°	1193.3	1090.0	1018.1	962.7	920.3	888.0	864.7	837.2	822.6	809.8	791.9
35°	1074.1	995.9	930.2	885.3	845.1	818.8	791.6	775.4	749.1	738.3	731.3
37.5°	973.2	905.4	856.4	809.0	777.1	748.0	731.4	705.6	694.2	679.1	664.5
40°	916.3	849.7	802.5	763.8	728.2	706.5	685.6	664.8	647.7	640.8	623.0
42.5°	858.1	803.9	756.7	714.3	690.4	667.5	641.1	625.7	608.1	596.8	585.8
45°	777.7	729.7	689.5	654.7	628.3	604.4	587.3	561.8	551.8	529.4	520.1
47.5°	707.2	662.6	624.2	591.1	565.4	549.8	524.8	504.8	488.8	475.0	463.1
50°	657.0	619.9	582.7	553.3	530.1	507.7	482.1	472.0	447.3	440.3	433.3
52.5°	611.2	575.9	541.9	513.1	489.9	468.1	445.6	432.4	415.8	408.8	403.6
55°	547.1	513.1	480.6	455.0	431.8	409.4	395.5	379.2	371.4	366.1	359.8
57.5°	482.7	452.1	427.2	401.3	378.0	360.1	344.1	334.3	326.3	319.1	311.7
60°	441.9	412.4	390.0	366.1	342.0	327.3	315.0	303.4	294.1	283.3	280.1
62.5°	398.5	372.8	352.2	328.9	308.0	294.6	282.8	271.8	260.6	244.9	240.5
65°	338.9	318.8	297.2	277.8	259.2	246.1	229.0	216.7	212.1	210.5	209.7
67.5°	285.1	266.1	247.5	227.6	210.8	198.5	190.0	188.0	184.8	183.9	181.7
70°	249.2	231.4	212.8	194.2	178.0	175.7	172.6	169.5	165.6	164.1	162.5
72.5°	217.0	198.5	180.0	165.1	158.1	155.2	152.2	149.1	146.4	144.9	143.9
75°	166.4	149.4	136.9	131.6	127.6	125.3	120.7	118.4	116.8	114.5	113.7
77.5°	119.8	110.2	104.5	101.1	97.0	94.5	91.9	89.6	88.0	87.5	86.2
80°	91.3	86.6	82.8	78.2	76.6	73.5	72.7	70.4	71.2	68.9	68.9
82.5°	70.9	65.0	61.8	59.6	58.1	55.5	54.8	53.7	53.8	52.1	52.1
85°	36.4	34.8	33.3	31.7	31.7	29.4	30.2	29.4	29.4	27.9	27.1
87.5°	14.8	15.1	15.2	16.5	17.8	18.5	18.4	17.6	17.5	17.4	16.8
90°	15.2	20.2	26.7	33.0	39.4	45.8	45.2	44.6	44.1	43.5	43.3
92.5°	33.5	35.5	37.1	38.6	40.1	41.6	41.7	41.9	42.0	42.1	42.2
95°	79.8	81.5	82.1	82.6	83.2	83.8	83.8	83.8	83.8	83.8	83.5
97.5°	134.6	136.4	137.5	138.7	139.8	140.9	140.9	140.9	140.9	140.9	140.9
100°	175.6	177.2	178.0	178.9	179.9	180.7	180.7	180.7	180.7	180.7	180.6
102.5°	217.7	219.2	220.4	221.5	222.6	223.7	223.9	224.1	224.4	224.6	224.6
105°	285.0	285.8	286.3	286.9	287.5	288.1	288.6	289.2	289.8	290.4	290.7
107.5°	358.4	359.0	359.0	359.0	359.0	359.0	359.3	359.5	359.7	360.0	359.4
110°	406.4	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	406.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	456.7	457.4	457.2	457.0	456.7	456.5	455.8	455.0	454.3	453.6	453.0
115°	530.8	531.3	530.8	530.2	529.6	529.0	528.8	528.5	528.2	527.9	527.3
117.5°	606.9	607.3	605.6	604.0	602.4	600.8	600.1	599.4	598.6	597.9	597.2
120°	656.2	656.2	653.9	651.6	649.1	646.8	646.8	646.8	646.8	646.8	646.4
122.5°	703.1	703.7	702.1	700.4	698.7	697.1	696.4	695.8	695.1	694.4	693.7
125°	772.5	773.5	772.5	771.7	770.8	769.9	769.1	768.2	767.3	766.5	765.9
127.5°	843.7	844.9	843.8	842.7	841.7	840.6	839.6	838.6	837.5	836.5	835.5
130°	888.5	890.1	889.6	889.0	888.4	887.8	887.2	886.7	886.1	885.4	884.6
132.5°	933.9	935.5	935.6	935.7	935.8	935.9	934.7	933.4	932.1	930.9	929.8
135°	998.9	1000.7	1001.3	1001.9	1002.5	1003.0	1002.7	1002.5	1002.2	1001.9	1001.3
137.5°	1064.3	1066.0	1066.7	1067.5	1068.2	1069.0	1068.8	1068.5	1068.3	1068.1	1067.4
140°	1105.2	1107.2	1108.6	1110.1	1111.6	1113.0	1113.0	1113.0	1113.0	1113.0	1112.5
142.5°	1147.1	1148.8	1149.8	1150.8	1151.9	1152.9	1153.1	1153.3	1153.6	1153.8	1153.3
145°	1205.0	1206.9	1208.6	1210.3	1212.1	1213.9	1214.2	1214.5	1214.8	1215.0	1214.6
147.5°	1260.3	1262.1	1263.2	1264.5	1265.6	1266.8	1267.4	1268.0	1268.7	1269.3	1269.1
150°	1294.1	1295.7	1296.8	1298.0	1299.1	1300.3	1301.1	1302.0	1302.9	1303.7	1303.7
152.5°	1326.7	1328.2	1329.6	1331.0	1332.4	1333.8	1334.9	1336.1	1337.1	1338.2	1338.2
155°	1371.9	1372.7	1373.6	1374.4	1375.3	1376.2	1377.7	1379.2	1380.6	1382.0	1382.3
157.5°	1412.3	1412.9	1413.4	1413.9	1414.4	1415.0	1416.9	1419.0	1420.9	1422.9	1423.2
160°	1437.4	1437.9	1438.1	1438.5	1438.8	1439.1	1440.8	1442.6	1444.3	1446.0	1446.3
162.5°	1458.6	1458.9	1459.2	1459.5	1459.8	1460.1	1462.0	1464.0	1465.9	1467.9	1468.2
165°	1487.6	1487.5	1487.5	1487.5	1487.5	1487.5	1489.6	1491.6	1493.6	1495.7	1495.9
167.5°	1511.0	1510.6	1510.5	1510.5	1510.4	1510.3	1512.4	1514.4	1516.4	1518.4	1518.7
170°	1524.6	1524.1	1523.8	1523.5	1523.2	1522.9	1524.9	1526.9	1528.9	1531.1	1531.2
172.5°	1534.1	1533.5	1533.2	1532.9	1532.6	1532.3	1534.4	1536.4	1538.4	1540.4	1540.5
175°	1545.6	1544.9	1544.3	1543.7	1543.1	1542.5	1544.6	1546.6	1548.6	1550.6	1550.8
177.5°	1551.0	1550.4	1549.9	1549.4	1549.0	1548.5	1549.9	1551.4	1552.8	1554.1	1554.1
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



TEST NUMBER: P331858-840

CATALOG NUMBER: S122RDIW-S1005D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2138.7	2139.9	2138.1	2139.3	2138.1	2139.9	2138.7	2145.5	2146.7	2148.0	2146.7
5°	1992.7	1983.4	1981.9	1979.5	1981.9	1983.4	1992.7	1996.6	1999.6	2005.9	2016.7
7.5°	1818.5	1817.1	1813.2	1807.8	1813.2	1817.1	1818.5	1831.7	1842.3	1854.3	1876.4
10°	1706.4	1702.5	1701.7	1696.3	1701.7	1702.5	1706.4	1723.4	1735.8	1752.8	1783.0
12.5°	1575.1	1550.2	1547.6	1534.1	1547.6	1550.2	1575.1	1597.1	1630.5	1647.0	1679.0
15°	1341.1	1336.5	1321.0	1310.9	1321.0	1336.5	1341.1	1359.7	1372.1	1416.9	1468.8
17.5°	1207.4	1192.2	1187.4	1185.3	1187.4	1192.2	1207.4	1216.4	1234.1	1257.7	1289.0
20°	1121.4	1107.4	1105.1	1103.6	1105.1	1107.4	1121.4	1132.2	1146.1	1171.6	1204.2
22.5°	1061.9	1047.3	1041.3	1036.6	1041.3	1047.3	1061.9	1070.3	1083.0	1102.9	1124.9
25°	960.4	954.9	951.9	950.3	951.9	954.9	960.4	968.2	980.5	1007.5	1030.8
27.5°	881.0	869.1	866.8	862.7	866.8	869.1	881.0	894.7	907.6	919.8	940.6
30°	835.8	831.9	826.5	821.8	826.5	831.9	835.8	842.7	851.2	872.1	892.3
32.5°	782.5	779.3	774.5	772.3	774.5	779.3	782.5	791.9	809.8	822.6	837.2
35°	723.6	712.8	708.1	701.1	708.1	712.8	723.6	731.3	738.3	749.1	775.4
37.5°	661.2	655.5	648.9	651.3	648.9	655.5	661.2	664.5	679.1	694.2	705.6
40°	612.9	609.0	607.5	606.7	607.5	609.0	612.9	623.0	640.8	647.7	664.8
42.5°	574.5	563.8	559.8	559.7	559.8	563.8	574.5	585.8	596.8	608.1	625.7
45°	516.1	506.1	499.2	499.9	499.2	506.1	516.1	520.1	529.4	551.8	561.8
47.5°	456.5	456.2	451.8	453.1	451.8	456.2	456.5	463.1	475.0	488.8	504.8
50°	428.0	423.3	420.2	421.0	420.2	423.3	428.0	433.3	440.3	447.3	472.0
52.5°	400.7	396.7	394.3	397.5	394.3	396.7	400.7	403.6	408.8	415.8	432.4
55°	356.0	351.3	350.5	349.8	350.5	351.3	356.0	359.8	366.1	371.4	379.2
57.5°	306.0	302.9	298.2	296.2	298.2	302.9	306.0	311.7	319.1	326.3	334.3
60°	270.0	263.9	256.1	255.4	256.1	263.9	270.0	280.1	283.3	294.1	303.4
62.5°	237.2	236.0	234.5	234.3	234.5	236.0	237.2	240.5	244.9	260.6	271.8
65°	208.1	207.4	208.1	208.9	208.1	207.4	208.1	209.7	210.5	212.1	216.7
67.5°	181.4	180.0	178.6	179.3	178.6	180.0	181.4	181.7	183.9	184.8	188.0
70°	161.0	160.2	159.5	159.5	159.5	160.2	161.0	162.5	164.1	165.6	169.5
72.5°	141.2	141.0	140.3	139.6	140.3	141.0	141.2	143.9	144.9	146.4	149.1
75°	113.0	111.4	111.4	111.4	111.4	111.4	113.0	113.7	114.5	116.8	118.4
77.5°	86.0	85.2	84.5	83.9	84.5	85.2	86.0	86.2	87.5	88.0	89.6
80°	68.1	67.4	66.6	66.6	66.6	67.4	68.1	68.9	68.9	71.2	70.4
82.5°	52.0	51.2	51.1	50.5	51.1	51.2	52.0	52.1	52.1	53.8	53.7
85°	27.9	28.7	27.9	29.4	27.9	28.7	27.9	27.1	27.9	29.4	29.4
87.5°	16.8	16.3	16.9	16.4	16.9	16.3	16.8	16.8	17.4	17.5	17.6
90°	43.6	43.9	44.2	44.5	44.2	43.9	43.6	43.3	43.5	44.1	44.6
92.5°	42.2	42.3	42.4	42.4	42.4	42.3	42.2	42.2	42.1	42.0	41.9
95°	82.9	82.3	81.8	81.2	81.8	82.3	82.9	83.5	83.8	83.8	83.8
97.5°	140.8	140.8	140.7	140.7	140.7	140.8	140.8	140.9	140.9	140.9	140.9
100°	180.3	180.0	179.7	179.4	179.7	180.0	180.3	180.6	180.7	180.7	180.7
102.5°	224.3	224.0	223.7	223.4	223.7	224.0	224.3	224.6	224.6	224.4	224.1
105°	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.4	289.8	289.2
107.5°	358.1	356.8	355.4	354.1	355.4	356.8	358.1	359.4	360.0	359.7	359.5
110°	406.0	405.1	404.1	403.3	404.1	405.1	406.0	406.8	407.3	407.3	407.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	452.3	451.7	451.1	450.4	451.1	451.7	452.3	453.0	453.6	454.3	455.0
115°	526.4	525.5	524.6	523.8	524.6	525.5	526.4	527.3	527.9	528.2	528.5
117.5°	596.3	595.4	594.6	593.7	594.6	595.4	596.3	597.2	597.9	598.6	599.4
120°	645.5	644.7	643.8	643.0	643.8	644.7	645.5	646.4	646.8	646.8	646.8
122.5°	693.1	692.4	691.8	691.2	691.8	692.4	693.1	693.7	694.4	695.1	695.8
125°	765.6	765.3	765.0	764.7	765.0	765.3	765.6	765.9	766.5	767.3	768.2
127.5°	834.6	833.6	832.7	831.7	832.7	833.6	834.6	835.5	836.5	837.5	838.6
130°	883.4	882.3	881.1	879.9	881.1	882.3	883.4	884.6	885.4	886.1	886.7
132.5°	928.9	927.9	927.0	926.0	927.0	927.9	928.9	929.8	930.9	932.1	933.4
135°	1000.4	999.6	998.7	997.7	998.7	999.6	1000.4	1001.3	1001.9	1002.2	1002.5
137.5°	1066.2	1065.1	1063.9	1062.8	1063.9	1065.1	1066.2	1067.4	1068.1	1068.3	1068.5
140°	1111.3	1110.1	1108.9	1107.8	1108.9	1110.1	1111.3	1112.5	1113.0	1113.0	1113.0
142.5°	1152.2	1150.9	1149.8	1148.6	1149.8	1150.9	1152.2	1153.3	1153.8	1153.6	1153.3
145°	1213.5	1212.2	1211.1	1209.9	1211.1	1212.2	1213.5	1214.6	1215.0	1214.8	1214.5
147.5°	1268.0	1266.9	1265.8	1264.7	1265.8	1266.9	1268.0	1269.1	1269.3	1268.7	1268.0
150°	1302.9	1302.0	1301.1	1300.3	1301.1	1302.0	1302.9	1303.7	1303.7	1302.9	1302.0
152.5°	1337.1	1336.1	1334.9	1333.8	1334.9	1336.1	1337.1	1338.2	1338.2	1337.1	1336.1
155°	1381.5	1380.6	1379.7	1378.9	1379.7	1380.6	1381.5	1382.3	1382.0	1380.6	1379.2
157.5°	1421.8	1420.4	1419.0	1417.5	1419.0	1420.4	1421.8	1423.2	1422.9	1420.9	1419.0
160°	1445.2	1444.0	1442.9	1441.7	1442.9	1444.0	1445.2	1446.3	1446.0	1444.3	1442.6
162.5°	1466.8	1465.4	1464.0	1462.7	1464.0	1465.4	1466.8	1468.2	1467.9	1465.9	1464.0
165°	1494.5	1493.1	1491.6	1490.2	1491.6	1493.1	1494.5	1495.9	1495.7	1493.6	1491.6
167.5°	1517.2	1515.7	1514.2	1512.7	1514.2	1515.7	1517.2	1518.7	1518.4	1516.4	1514.4
170°	1529.4	1527.7	1525.9	1524.2	1525.9	1527.7	1529.4	1531.2	1531.1	1528.9	1526.9
172.5°	1538.8	1537.1	1535.4	1533.6	1535.4	1537.1	1538.8	1540.5	1540.4	1538.4	1536.4
175°	1549.0	1547.3	1545.6	1543.8	1545.6	1547.3	1549.0	1550.8	1550.6	1548.6	1546.6
177.5°	1552.8	1551.4	1549.9	1548.5	1549.9	1551.4	1552.8	1554.1	1554.1	1552.8	1551.4
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2141.7	2150.4	2163.4	2170.8	2183.2	2191.3	2195.6	2203.6	2208.0	2223.5	2239.6
5°	2022.2	2034.5	2056.2	2076.3	2098.0	2120.4	2136.7	2155.3	2172.2	2201.6	2232.6
7.5°	1885.0	1902.2	1935.7	1967.8	2005.6	2037.3	2065.3	2097.0	2125.4	2167.5	2211.4
10°	1782.2	1812.4	1856.5	1886.7	1936.2	1967.9	2012.1	2046.9	2086.4	2142.0	2191.6
12.5°	1693.6	1730.1	1765.5	1807.5	1852.0	1904.8	1953.3	1998.0	2044.9	2102.4	2160.6
15°	1533.1	1585.7	1640.6	1683.1	1743.5	1799.3	1855.7	1916.1	1973.4	2042.3	2118.1
17.5°	1326.3	1387.3	1479.7	1552.6	1623.5	1679.3	1749.3	1822.3	1889.8	1972.9	2057.3
20°	1232.7	1277.7	1340.3	1438.7	1545.4	1605.0	1676.2	1756.7	1834.0	1924.6	2015.2
22.5°	1157.8	1197.8	1248.1	1324.7	1443.9	1525.1	1599.4	1681.1	1770.9	1863.3	1963.8
25°	1050.9	1078.7	1131.4	1193.3	1275.4	1409.2	1490.5	1572.5	1670.0	1769.1	1883.6
27.5°	970.6	995.6	1029.9	1088.9	1149.9	1246.1	1375.3	1464.8	1562.0	1673.4	1792.3
30°	909.3	938.7	976.6	1018.4	1085.0	1160.0	1289.3	1393.0	1488.9	1603.5	1730.4
32.5°	864.7	888.0	920.3	962.7	1018.1	1090.0	1193.3	1319.3	1412.8	1533.5	1666.0
35°	791.6	818.8	845.1	885.3	930.2	995.9	1074.1	1208.8	1301.6	1420.8	1553.9
37.5°	731.4	748.0	777.1	809.0	856.4	905.4	973.2	1094.0	1194.4	1311.4	1447.6
40°	685.6	706.5	728.2	763.8	802.5	849.7	916.3	1006.0	1121.4	1235.9	1369.0
42.5°	641.1	667.5	690.4	714.3	756.7	803.9	858.1	934.2	1052.0	1160.3	1289.7
45°	587.3	604.4	628.3	654.7	689.5	729.7	777.7	844.2	957.3	1050.9	1172.5
47.5°	524.8	549.8	565.4	591.1	624.2	662.6	707.2	764.8	856.2	943.9	1056.6
50°	482.1	507.7	530.1	553.3	582.7	619.9	657.0	712.8	786.3	878.4	983.6
52.5°	445.6	468.1	489.9	513.1	541.9	575.9	611.2	660.1	723.1	807.8	909.9
55°	395.5	409.4	431.8	455.0	480.6	513.1	547.1	588.1	642.3	713.5	796.3
57.5°	344.1	360.1	378.0	401.3	427.2	452.1	482.7	519.9	562.6	627.0	697.9
60°	315.0	327.3	342.0	366.1	390.0	412.4	441.9	472.8	513.1	568.8	629.1
62.5°	282.8	294.6	308.0	328.9	352.2	372.8	398.5	431.3	465.4	516.1	569.1
65°	229.0	246.1	259.2	277.8	297.2	318.8	338.9	365.3	395.5	435.7	482.9
67.5°	190.0	198.5	210.8	227.6	247.5	266.1	285.1	305.7	331.8	362.9	400.4
70°	172.6	175.7	178.0	194.2	212.8	231.4	249.2	268.5	290.9	316.5	349.0
72.5°	152.2	155.2	158.1	165.1	180.0	198.5	217.0	231.4	252.6	273.8	300.1
75°	120.7	125.3	127.6	131.6	136.9	149.4	166.4	180.3	192.7	208.9	229.8
77.5°	91.9	94.5	97.0	101.1	104.5	110.2	119.8	132.3	143.9	153.4	167.7
80°	72.7	73.5	76.6	78.2	82.8	86.6	91.3	101.4	113.0	116.8	126.9
82.5°	54.8	55.5	58.1	59.6	61.8	65.0	70.9	73.5	82.6	87.8	94.1
85°	30.2	29.4	31.7	31.7	33.3	34.8	36.4	40.2	42.5	48.8	50.3
87.5°	18.4	18.5	17.8	16.5	15.2	15.1	14.8	14.7	15.2	16.5	18.2
90°	45.2	45.8	39.4	33.0	26.7	20.2	15.2	11.8	8.3	4.8	1.3
92.5°	41.7	41.6	40.1	38.6	37.1	35.5	33.5	31.0	28.5	25.9	23.3
95°	83.8	83.8	83.2	82.6	82.1	81.5	79.8	76.9	73.9	71.0	68.1
97.5°	140.9	140.9	139.8	138.7	137.5	136.4	134.6	132.1	129.6	126.9	124.4
100°	180.7	180.7	179.9	178.9	178.0	177.2	175.6	173.3	171.0	168.6	166.3
102.5°	223.9	223.7	222.6	221.5	220.4	219.2	217.7	215.9	214.0	212.2	210.3
105°	288.6	288.1	287.5	286.9	286.3	285.8	285.0	284.2	283.3	282.4	281.6
107.5°	359.3	359.0	359.0	359.0	359.0	359.0	358.4	357.1	355.9	354.6	353.3
110°	407.3	407.3	407.3	407.3	407.3	407.3	406.4	404.7	402.8	401.1	399.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	455.8	456.5	456.7	457.0	457.2	457.4	456.7	454.9	453.1	451.4	449.7
115°	528.8	529.0	529.6	530.2	530.8	531.3	530.8	529.0	527.3	525.5	523.8
117.5°	600.1	600.8	602.4	604.0	605.6	607.3	606.9	604.6	602.3	600.0	597.6
120°	646.8	646.8	649.1	651.6	653.9	656.2	656.2	653.9	651.6	649.1	646.8
122.5°	696.4	697.1	698.7	700.4	702.1	703.7	703.1	700.2	697.5	694.7	691.9
125°	769.1	769.9	770.8	771.7	772.5	773.5	772.5	769.9	767.3	764.7	762.0
127.5°	839.6	840.6	841.7	842.7	843.8	844.9	843.7	840.4	837.1	833.7	830.4
130°	887.2	887.8	888.4	889.0	889.6	890.1	888.5	884.7	881.0	877.2	873.4
132.5°	934.7	935.9	935.8	935.7	935.6	935.5	933.9	930.8	927.8	924.6	921.6
135°	1002.7	1003.0	1002.5	1001.9	1001.3	1000.7	998.9	995.6	992.4	989.2	986.0
137.5°	1068.8	1069.0	1068.2	1067.5	1066.7	1066.0	1064.3	1061.7	1059.0	1056.4	1053.8
140°	1113.0	1113.0	1111.6	1110.1	1108.6	1107.2	1105.2	1102.6	1099.9	1097.3	1094.7
142.5°	1153.1	1152.9	1151.9	1150.8	1149.8	1148.8	1147.1	1144.5	1141.9	1139.2	1136.6
145°	1214.2	1213.9	1212.1	1210.3	1208.6	1206.9	1205.0	1203.0	1200.9	1198.9	1196.8
147.5°	1267.4	1266.8	1265.6	1264.5	1263.2	1262.1	1260.3	1257.9	1255.4	1252.9	1250.5
150°	1301.1	1300.3	1299.1	1298.0	1296.8	1295.7	1294.1	1292.4	1290.7	1288.9	1287.2
152.5°	1334.9	1333.8	1332.4	1331.0	1329.6	1328.2	1326.7	1324.8	1323.1	1321.4	1319.7
155°	1377.7	1376.2	1375.3	1374.4	1373.6	1372.7	1371.9	1371.0	1370.1	1369.3	1368.4
157.5°	1416.9	1415.0	1414.4	1413.9	1413.4	1412.9	1412.3	1411.8	1411.2	1410.6	1410.0
160°	1440.8	1439.1	1438.8	1438.5	1438.1	1437.9	1437.4	1436.9	1436.3	1435.7	1435.1
162.5°	1462.0	1460.1	1459.8	1459.5	1459.2	1458.9	1458.6	1458.5	1458.4	1458.3	1458.1
165°	1489.6	1487.5	1487.5	1487.5	1487.5	1487.5	1487.6	1487.9	1488.2	1488.5	1488.8
167.5°	1512.4	1510.3	1510.4	1510.5	1510.5	1510.6	1511.0	1511.9	1512.8	1513.6	1514.5
170°	1524.9	1522.9	1523.2	1523.5	1523.8	1524.1	1524.6	1525.5	1526.4	1527.2	1528.1
172.5°	1534.4	1532.3	1532.6	1532.9	1533.2	1533.5	1534.1	1534.9	1535.8	1536.7	1537.5
175°	1544.6	1542.5	1543.1	1543.7	1544.3	1544.9	1545.6	1546.4	1547.3	1548.2	1549.0
177.5°	1549.9	1548.5	1549.0	1549.4	1549.9	1550.4	1551.0	1551.7	1552.4	1553.1	1553.8
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2240.2	2242.0	2254.4	2260.0	2271.2	2275.4	2280.5	2279.2	2279.2	2281.7	2299.0
5°	2245.0	2260.5	2283.7	2306.1	2327.8	2346.3	2358.7	2371.2	2375.8	2398.2	2418.3
7.5°	2237.0	2265.4	2303.8	2338.0	2379.0	2411.1	2437.7	2461.6	2478.1	2510.7	2544.2
10°	2226.4	2266.6	2310.0	2354.1	2410.5	2453.2	2496.5	2529.8	2540.6	2589.4	2617.3
12.5°	2205.3	2259.3	2314.3	2371.5	2426.7	2485.4	2533.0	2566.3	2604.3	2648.2	2699.6
15°	2173.8	2235.7	2307.6	2381.2	2460.1	2531.3	2582.4	2640.4	2682.2	2730.2	2775.1
17.5°	2128.5	2208.2	2299.7	2384.8	2476.1	2552.5	2622.8	2678.5	2708.0	2735.3	2742.0
20°	2092.5	2178.5	2286.0	2386.6	2477.9	2566.2	2635.7	2682.2	2690.0	2690.7	2649.7
22.5°	2053.6	2150.6	2263.1	2366.2	2475.5	2573.5	2627.8	2647.6	2616.9	2564.5	2485.1
25°	1981.9	2094.1	2224.8	2342.5	2461.6	2554.6	2573.1	2538.3	2430.7	2317.7	2174.5
27.5°	1904.2	2030.3	2170.5	2301.3	2428.2	2485.8	2445.7	2320.2	2126.5	1958.0	1753.9
30°	1847.2	1988.8	2126.6	2272.8	2390.5	2415.2	2323.2	2138.2	1912.2	1658.4	1454.9
32.5°	1782.2	1930.7	2082.0	2233.2	2331.7	2307.5	2155.4	1927.7	1662.7	1413.2	1220.8
35°	1689.3	1842.6	2005.9	2157.6	2220.2	2115.8	1888.2	1591.9	1321.0	1088.0	955.7
37.5°	1582.1	1749.0	1918.7	2058.0	2053.6	1879.5	1569.5	1263.5	1035.9	898.2	803.9
40°	1505.9	1674.7	1858.1	1975.7	1925.4	1698.6	1362.8	1074.1	907.8	797.9	729.0
42.5°	1432.9	1602.3	1784.4	1877.8	1790.4	1511.7	1177.1	950.9	813.6	727.9	672.1
45°	1308.6	1487.3	1656.1	1707.9	1551.6	1244.4	951.9	787.8	696.5	633.0	594.3
47.5°	1187.1	1362.9	1516.9	1517.8	1306.5	1009.2	802.9	681.8	603.8	554.7	526.5
50°	1112.8	1280.0	1409.2	1389.1	1149.2	897.7	718.1	613.7	548.7	510.8	481.3
52.5°	1029.3	1191.4	1303.3	1246.1	1016.1	789.9	642.0	554.2	500.4	467.4	441.1
55°	907.8	1051.7	1130.6	1043.9	828.8	657.0	542.5	473.6	433.3	405.5	383.0
57.5°	788.4	907.2	956.8	855.9	682.7	544.8	458.9	407.2	367.3	347.3	335.7
60°	713.5	814.9	849.7	738.3	593.6	476.7	406.3	358.3	328.9	315.8	304.2
62.5°	639.9	722.7	737.0	634.9	517.5	417.3	356.8	316.2	296.7	284.2	273.2
65°	530.9	590.5	583.5	501.5	409.4	331.2	287.1	262.4	247.6	229.8	210.5
67.5°	437.1	473.4	451.5	390.0	312.5	257.4	228.6	209.8	191.6	174.7	170.3
70°	377.7	398.5	375.4	318.8	256.1	215.9	192.7	170.3	159.5	155.5	148.6
72.5°	320.7	328.0	302.9	254.5	208.4	178.7	156.1	143.6	137.7	134.5	130.0
75°	240.7	235.3	213.6	175.7	144.7	124.6	117.6	113.0	109.1	106.0	103.7
77.5°	169.1	161.1	141.8	117.0	100.8	91.2	86.9	84.5	82.6	81.1	78.8
80°	126.9	121.5	102.2	83.6	76.6	72.0	69.7	66.6	66.6	65.0	62.7
82.5°	92.9	86.8	70.0	61.3	57.5	54.6	52.9	51.1	50.5	50.8	49.1
85°	48.8	39.5	34.8	33.3	31.0	29.4	30.2	28.7	28.7	28.7	27.9
87.5°	15.9	13.4	13.5	13.5	15.1	16.5	17.2	18.4	20.3	19.6	20.1
90°	4.8	8.3	11.8	15.2	20.2	26.7	33.0	39.4	45.8	45.2	44.6
92.5°	25.9	28.5	31.0	33.5	35.5	37.1	38.6	40.1	41.6	41.7	41.9
95°	71.0	73.9	76.9	79.8	81.5	82.1	82.6	83.2	83.8	83.8	83.8
97.5°	126.9	129.6	132.1	134.6	136.4	137.5	138.7	139.8	140.9	140.9	140.9
100°	168.6	171.0	173.3	175.6	177.2	178.0	178.9	179.9	180.7	180.7	180.7
102.5°	212.2	214.0	215.9	217.7	219.2	220.4	221.5	222.6	223.7	223.9	224.1
105°	282.4	283.3	284.2	285.0	285.8	286.3	286.9	287.5	288.1	288.6	289.2
107.5°	354.6	355.9	357.1	358.4	359.0	359.0	359.0	359.0	359.0	359.3	359.5
110°	401.1	402.8	404.7	406.4	407.3	407.3	407.3	407.3	407.3	407.3	407.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	451.4	453.1	454.9	456.7	457.4	457.2	457.0	456.7	456.5	455.8	455.0
115°	525.5	527.3	529.0	530.8	531.3	530.8	530.2	529.6	529.0	528.8	528.5
117.5°	600.0	602.3	604.6	606.9	607.3	605.6	604.0	602.4	600.8	600.1	599.4
120°	649.1	651.6	653.9	656.2	656.2	653.9	651.6	649.1	646.8	646.8	646.8
122.5°	694.7	697.5	700.2	703.1	703.7	702.1	700.4	698.7	697.1	696.4	695.8
125°	764.7	767.3	769.9	772.5	773.5	772.5	771.7	770.8	769.9	769.1	768.2
127.5°	833.7	837.1	840.4	843.7	844.9	843.8	842.7	841.7	840.6	839.6	838.6
130°	877.2	881.0	884.7	888.5	890.1	889.6	889.0	888.4	887.8	887.2	886.7
132.5°	924.6	927.8	930.8	933.9	935.5	935.6	935.7	935.8	935.9	934.7	933.4
135°	989.2	992.4	995.6	998.9	1000.7	1001.3	1001.9	1002.5	1003.0	1002.7	1002.5
137.5°	1056.4	1059.0	1061.7	1064.3	1066.0	1066.7	1067.5	1068.2	1069.0	1068.8	1068.5
140°	1097.3	1099.9	1102.6	1105.2	1107.2	1108.6	1110.1	1111.6	1113.0	1113.0	1113.0
142.5°	1139.2	1141.9	1144.5	1147.1	1148.8	1149.8	1150.8	1151.9	1152.9	1153.1	1153.3
145°	1198.9	1200.9	1203.0	1205.0	1206.9	1208.6	1210.3	1212.1	1213.9	1214.2	1214.5
147.5°	1252.9	1255.4	1257.9	1260.3	1262.1	1263.2	1264.5	1265.6	1266.8	1267.4	1268.0
150°	1288.9	1290.7	1292.4	1294.1	1295.7	1296.8	1298.0	1299.1	1300.3	1301.1	1302.0
152.5°	1321.4	1323.1	1324.8	1326.7	1328.2	1329.6	1331.0	1332.4	1333.8	1334.9	1336.1
155°	1369.3	1370.1	1371.0	1371.9	1372.7	1373.6	1374.4	1375.3	1376.2	1377.7	1379.2
157.5°	1410.6	1411.2	1411.8	1412.3	1412.9	1413.4	1413.9	1414.4	1415.0	1416.9	1419.0
160°	1435.7	1436.3	1436.9	1437.4	1437.9	1438.1	1438.5	1438.8	1439.1	1440.8	1442.6
162.5°	1458.3	1458.4	1458.5	1458.6	1458.9	1459.2	1459.5	1459.8	1460.1	1462.0	1464.0
165°	1488.5	1488.2	1487.9	1487.6	1487.5	1487.5	1487.5	1487.5	1487.5	1489.6	1491.6
167.5°	1513.6	1512.8	1511.9	1511.0	1510.6	1510.5	1510.5	1510.4	1510.3	1512.4	1514.4
170°	1527.2	1526.4	1525.5	1524.6	1524.1	1523.8	1523.5	1523.2	1522.9	1524.9	1526.9
172.5°	1536.7	1535.8	1534.9	1534.1	1533.5	1533.2	1532.9	1532.6	1532.3	1534.4	1536.4
175°	1548.2	1547.3	1546.4	1545.6	1544.9	1544.3	1543.7	1543.1	1542.5	1544.6	1546.6
177.5°	1553.1	1552.4	1551.7	1551.0	1550.4	1549.9	1549.4	1549.0	1548.5	1549.9	1551.4
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2305.2	2313.2	2316.9	2316.9	2321.3	2319.5	2317.5
5°	2437.7	2452.4	2455.5	2469.4	2479.4	2476.4	2477.9
7.5°	2569.4	2593.0	2616.5	2627.2	2628.8	2635.0	2637.4
10°	2650.5	2669.9	2706.2	2700.8	2727.8	2743.4	2717.8
12.5°	2728.5	2754.6	2779.9	2786.8	2802.2	2807.1	2797.0
15°	2799.0	2813.0	2814.6	2810.7	2815.3	2811.5	2796.7
17.5°	2733.1	2710.6	2664.7	2643.0	2625.9	2600.5	2590.3
20°	2624.1	2557.6	2480.2	2449.3	2412.9	2341.7	2358.7
22.5°	2388.9	2313.1	2235.7	2145.4	2102.1	2034.7	2030.6
25°	2022.9	1892.1	1748.2	1647.6	1588.7	1521.5	1492.0
27.5°	1572.8	1408.2	1290.2	1230.4	1176.1	1122.8	1120.5
30°	1276.9	1153.1	1061.8	1010.7	977.3	954.9	959.6
32.5°	1076.3	991.5	929.9	887.5	862.8	846.0	845.7
35°	879.9	821.8	782.3	764.6	746.8	734.4	735.2
37.5°	753.0	718.1	696.2	676.5	665.4	659.3	655.9
40°	687.9	659.3	642.3	630.7	621.4	612.9	611.4
42.5°	636.6	612.9	595.9	586.7	578.0	572.1	570.5
45°	564.9	545.5	530.1	520.1	516.1	510.8	510.8
47.5°	502.5	483.5	471.4	465.1	458.5	454.8	454.7
50°	460.5	445.8	434.9	431.0	425.7	423.3	422.5
52.5°	422.7	411.7	403.9	401.3	399.0	396.1	396.6
55°	371.4	365.3	362.1	359.8	356.0	351.3	354.5
57.5°	328.3	323.1	314.7	307.4	303.9	300.5	301.8
60°	297.9	287.1	276.3	267.7	265.4	258.4	258.4
62.5°	259.5	244.4	231.1	226.3	224.0	220.8	220.0
65°	199.7	193.5	190.4	187.2	185.7	185.7	184.2
67.5°	165.4	163.0	159.6	158.8	157.2	156.8	156.3
70°	146.2	143.2	141.6	140.9	139.3	140.1	137.7
72.5°	127.6	125.2	124.9	122.9	122.0	122.1	120.4
75°	100.6	100.6	99.9	99.1	97.6	96.7	97.6
77.5°	77.4	77.6	76.1	76.0	75.8	76.0	75.2
80°	61.9	62.7	61.9	61.1	60.4	61.1	60.4
82.5°	48.9	47.9	47.7	47.6	47.4	46.9	46.8
85°	27.9	28.7	27.9	27.1	27.1	27.1	27.9
87.5°	19.4	19.2	19.2	19.3	19.3	19.4	18.8
90°	44.1	43.5	43.3	43.6	43.9	44.2	44.5
92.5°	42.0	42.1	42.2	42.2	42.3	42.4	42.4
95°	83.8	83.8	83.5	82.9	82.3	81.8	81.2
97.5°	140.9	140.9	140.9	140.8	140.8	140.7	140.7
100°	180.7	180.7	180.6	180.3	180.0	179.7	179.4
102.5°	224.4	224.6	224.6	224.3	224.0	223.7	223.4
105°	289.8	290.4	290.7	290.7	290.7	290.7	290.7
107.5°	359.7	360.0	359.4	358.1	356.8	355.4	354.1
110°	407.3	407.3	406.8	406.0	405.1	404.1	403.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	454.3	453.6	453.0	452.3	451.7	451.1	450.4
115°	528.2	527.9	527.3	526.4	525.5	524.6	523.8
117.5°	598.6	597.9	597.2	596.3	595.4	594.6	593.7
120°	646.8	646.8	646.4	645.5	644.7	643.8	643.0
122.5°	695.1	694.4	693.7	693.1	692.4	691.8	691.2
125°	767.3	766.5	765.9	765.6	765.3	765.0	764.7
127.5°	837.5	836.5	835.5	834.6	833.6	832.7	831.7
130°	886.1	885.4	884.6	883.4	882.3	881.1	879.9
132.5°	932.1	930.9	929.8	928.9	927.9	927.0	926.0
135°	1002.2	1001.9	1001.3	1000.4	999.6	998.7	997.7
137.5°	1068.3	1068.1	1067.4	1066.2	1065.1	1063.9	1062.8
140°	1113.0	1113.0	1112.5	1111.3	1110.1	1108.9	1107.8
142.5°	1153.6	1153.8	1153.3	1152.2	1150.9	1149.8	1148.6
145°	1214.8	1215.0	1214.6	1213.5	1212.2	1211.1	1209.9
147.5°	1268.7	1269.3	1269.1	1268.0	1266.9	1265.8	1264.7
150°	1302.9	1303.7	1303.7	1302.9	1302.0	1301.1	1300.3
152.5°	1337.1	1338.2	1338.2	1337.1	1336.1	1334.9	1333.8
155°	1380.6	1382.0	1382.3	1381.5	1380.6	1379.7	1378.9
157.5°	1420.9	1422.9	1423.2	1421.8	1420.4	1419.0	1417.5
160°	1444.3	1446.0	1446.3	1445.2	1444.0	1442.9	1441.7
162.5°	1465.9	1467.9	1468.2	1466.8	1465.4	1464.0	1462.7
165°	1493.6	1495.7	1495.9	1494.5	1493.1	1491.6	1490.2
167.5°	1516.4	1518.4	1518.7	1517.2	1515.7	1514.2	1512.7
170°	1528.9	1531.1	1531.2	1529.4	1527.7	1525.9	1524.2
172.5°	1538.4	1540.4	1540.5	1538.8	1537.1	1535.4	1533.6
175°	1548.6	1550.6	1550.8	1549.0	1547.3	1545.6	1543.8
177.5°	1552.8	1554.1	1554.1	1552.8	1551.4	1549.9	1548.5
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7

(END OF REPORT)