

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: P331862-840

Luminaire Tested: **S122RDIW-S1005D1440U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331862-840
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-S1005D1440U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8900.8 lumens
Efficiency: N/A
Efficacy: 107.4 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

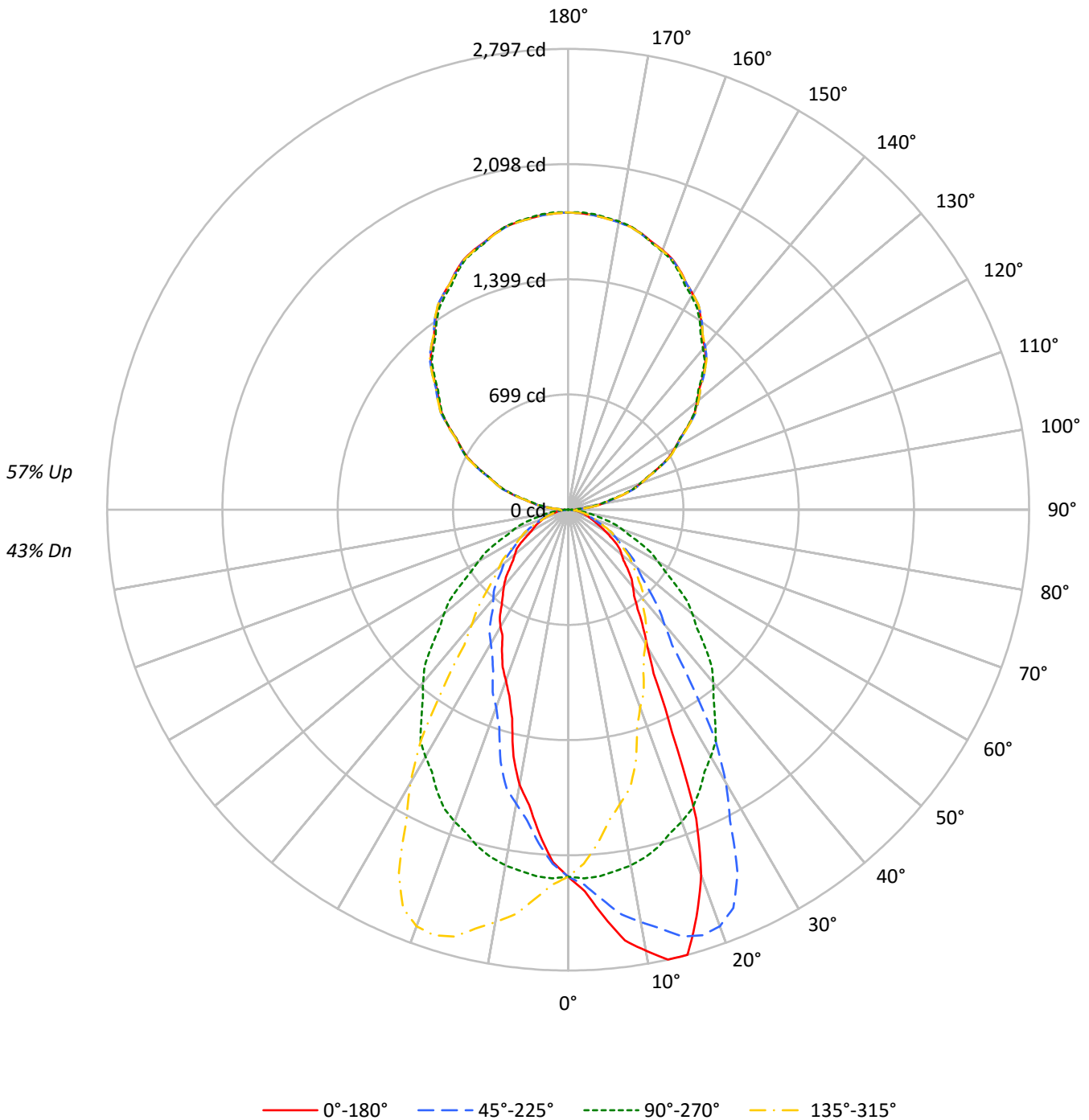
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	97	93	89	86	89	85	82	79	71	69	67	57	56	55	45	44	43	38
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33
3	81	73	66	60	74	67	61	56	56	52	48	46	43	40	37	35	33	29
4	75	65	57	52	68	60	53	48	50	46	42	41	38	35	33	31	29	25
5	69	58	50	45	63	54	47	42	45	40	36	38	34	31	30	28	26	23
6	64	52	45	39	58	49	42	37	41	36	32	34	31	28	28	25	23	20
7	59	48	40	35	54	44	37	33	38	32	29	31	28	25	26	23	21	18
8	55	43	36	31	51	40	34	29	34	29	26	29	25	22	24	21	19	17
9	51	40	33	28	47	37	31	26	32	27	23	27	23	20	22	19	17	15
10	48	37	30	25	44	34	28	24	29	25	21	25	21	19	21	18	16	14

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	2.4
10°-20°	588.3	6.6
20°-30°	758.1	8.5
30°-40°	720.4	8.1
40°-50°	617.1	6.9
50°-60°	470.0	5.3
60°-70°	297.1	3.3
70°-80°	148.4	1.7
80°-90°	45.8	0.5
90°-100°	114.3	1.3
100°-110°	355.0	4.0
110°-120°	606.9	6.8
120°-130°	798.1	9.0
130°-140°	895.8	10.1
140°-150°	878.3	9.9
150°-160°	736.7	8.3
160°-170°	488.6	5.5
170°-180°	170.8	1.9
0°-30°	1557.5	17.5
0°-40°	2277.9	25.6
0°-60°	3365.0	37.8
0°-90°	3856.3	43.3
90°-120°	1076.2	12.1
90°-150°	3648.4	41.0
90°-180°	5045.0	56.7
0°-180°	8900.8	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°	52	2	52	2	52	24
95°	94	79	94	79	94	105
105°	338	327	338	327	338	355
115°	609	609	609	609	609	601
125°	889	886	889	886	889	793
135°	1160	1146	1160	1146	1160	893
145°	1407	1392	1407	1392	1407	878
155°	1603	1591	1603	1591	1603	738
165°	1732	1731	1732	1731	1732	489
175°	1795	1801	1795	1801	1795	171
180°	1804	1804	1804	1804	1804	



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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°	20.3	20.8	20.7	20.7	20.6	20.6	20.8	21.5	21.0	21.8	19.7
90°	51.8	51.4	51.1	50.8	50.4	50.6	51.3	51.9	52.6	53.3	45.8
92.5°	49.3	49.3	49.2	49.1	49.1	49.0	48.8	48.7	48.6	48.4	46.7
95°	94.4	95.0	95.7	96.4	97.0	97.5	97.5	97.5	97.5	97.5	96.7
97.5°	163.5	163.6	163.6	163.7	163.8	163.8	163.8	163.8	163.8	163.8	162.5
100°	208.5	208.9	209.2	209.5	210.0	210.1	210.1	210.1	210.1	210.1	209.0
102.5°	259.7	260.0	260.4	260.7	261.1	261.2	260.8	260.5	260.3	260.0	258.7
105°	338.0	338.0	338.0	338.0	338.0	337.6	337.0	336.3	335.6	335.0	334.3
107.5°	411.6	413.2	414.8	416.4	417.9	418.5	418.3	418.0	417.7	417.5	417.5
110°	468.9	469.9	470.9	471.9	472.9	473.5	473.5	473.5	473.5	473.5	473.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	523.7	524.4	525.2	525.9	526.6	527.5	528.3	529.1	529.9	530.7	531.0
115°	608.9	610.0	611.0	612.0	613.0	613.7	614.0	614.4	614.7	615.1	615.7
117.5°	690.2	691.3	692.3	693.3	694.3	695.3	696.1	696.9	697.7	698.5	700.3
120°	747.5	748.5	749.5	750.5	751.5	752.0	752.0	752.0	752.0	752.0	754.8
122.5°	803.5	804.3	805.1	805.8	806.5	807.3	808.1	808.9	809.7	810.5	812.4
125°	889.1	889.5	889.8	890.1	890.5	891.1	892.1	893.1	894.1	895.1	896.3
127.5°	967.0	968.2	969.2	970.3	971.4	972.5	973.7	974.9	976.1	977.4	978.7
130°	1023.1	1024.4	1025.8	1027.1	1028.4	1029.5	1030.2	1030.9	1031.6	1032.2	1032.9
132.5°	1076.6	1077.7	1078.8	1079.9	1081.0	1082.3	1083.8	1085.3	1086.7	1088.2	1088.1
135°	1160.1	1161.1	1162.2	1163.2	1164.2	1164.9	1165.2	1165.5	1165.9	1166.2	1165.5
137.5°	1235.6	1237.0	1238.3	1239.7	1241.0	1241.8	1242.1	1242.3	1242.6	1242.9	1242.0
140°	1288.0	1289.3	1290.7	1292.0	1293.4	1294.0	1294.0	1294.0	1294.0	1294.0	1292.4
142.5°	1335.4	1336.9	1338.2	1339.6	1340.9	1341.4	1341.2	1340.9	1340.6	1340.4	1339.2
145°	1406.7	1408.1	1409.5	1410.8	1412.1	1412.6	1412.3	1412.0	1411.6	1411.3	1409.3
147.5°	1470.4	1471.7	1472.9	1474.2	1475.5	1475.8	1475.0	1474.3	1473.6	1472.8	1471.5
150°	1511.8	1512.8	1513.8	1514.8	1515.8	1515.8	1514.8	1513.8	1512.8	1511.8	1510.5
152.5°	1550.7	1552.1	1553.3	1554.6	1555.9	1555.9	1554.6	1553.3	1552.1	1550.7	1549.1
155°	1603.2	1604.2	1605.2	1606.2	1607.2	1606.8	1605.2	1603.5	1601.7	1600.0	1599.0
157.5°	1648.2	1649.8	1651.4	1653.0	1654.7	1654.4	1652.0	1649.7	1647.4	1645.2	1644.6
160°	1676.2	1677.6	1678.9	1680.2	1681.6	1681.2	1679.2	1677.2	1675.2	1673.1	1672.8
162.5°	1700.5	1702.2	1703.8	1705.5	1707.1	1706.7	1704.5	1702.1	1699.8	1697.5	1697.2
165°	1732.5	1734.2	1736.0	1737.6	1739.3	1739.0	1736.6	1734.2	1731.8	1729.5	1729.5
167.5°	1758.7	1760.5	1762.2	1764.0	1765.7	1765.4	1763.1	1760.7	1758.4	1756.0	1756.1
170°	1772.1	1774.1	1776.2	1778.2	1780.2	1780.1	1777.7	1775.3	1772.9	1770.6	1770.9
172.5°	1783.1	1785.1	1787.2	1789.2	1791.2	1791.0	1788.7	1786.2	1783.9	1781.5	1781.9
175°	1794.9	1797.0	1799.0	1801.0	1803.1	1802.9	1800.5	1798.2	1795.8	1793.4	1794.1
177.5°	1800.4	1802.0	1803.7	1805.3	1807.0	1807.0	1805.3	1803.7	1802.0	1800.4	1801.0
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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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°	18.2	17.4	15.9	14.0	13.8	13.7	16.0	18.3	16.6	15.6	15.1
90°	38.4	31.0	23.5	17.8	13.7	9.6	5.6	1.5	5.6	9.6	13.7
92.5°	44.9	43.1	41.4	39.0	36.1	33.0	30.1	27.1	30.1	33.0	36.1
95°	96.0	95.4	94.7	92.7	89.3	85.9	82.5	79.2	82.5	85.9	89.3
97.5°	161.3	160.0	158.6	156.5	153.6	150.6	147.6	144.6	147.6	150.6	153.6
100°	208.0	207.0	206.0	204.2	201.5	198.7	196.0	193.4	196.0	198.7	201.5
102.5°	257.4	256.2	254.9	253.2	251.0	248.8	246.7	244.5	246.7	248.8	251.0
105°	333.6	333.0	332.2	331.3	330.3	329.3	328.3	327.3	328.3	329.3	330.3
107.5°	417.5	417.5	417.5	416.7	415.3	413.7	412.2	410.7	412.2	413.7	415.3
110°	473.5	473.5	473.5	472.4	470.4	468.4	466.4	464.3	466.4	468.4	470.4



TEST NUMBER: P331862-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	531.3	531.5	531.8	530.9	528.9	526.8	524.8	522.8	524.8	526.8	528.9
115°	616.4	617.1	617.7	617.1	615.1	613.0	611.0	608.9	611.0	613.0	615.1
117.5°	702.3	704.2	706.1	705.7	703.0	700.2	697.5	694.9	697.5	700.2	703.0
120°	757.5	760.2	763.0	763.0	760.2	757.5	754.8	752.0	754.8	757.5	760.2
122.5°	814.4	816.3	818.1	817.5	814.2	810.9	807.7	804.5	807.7	810.9	814.2
125°	897.3	898.3	899.3	898.3	895.1	892.1	889.1	886.1	889.1	892.1	895.1
127.5°	979.9	981.1	982.3	981.0	977.1	973.2	969.4	965.5	969.4	973.2	977.1
130°	1033.6	1034.2	1034.9	1033.1	1028.6	1024.3	1019.9	1015.4	1019.9	1024.3	1028.6
132.5°	1087.9	1087.8	1087.7	1085.8	1082.3	1078.6	1075.1	1071.5	1075.1	1078.6	1082.3
135°	1164.9	1164.2	1163.5	1161.2	1157.5	1153.9	1150.1	1146.4	1150.1	1153.9	1157.5
137.5°	1241.1	1240.3	1239.4	1237.4	1234.4	1231.3	1228.3	1225.3	1228.3	1231.3	1234.4
140°	1290.7	1289.0	1287.3	1285.0	1281.9	1278.9	1275.8	1272.7	1275.8	1278.9	1281.9
142.5°	1338.1	1336.9	1335.7	1333.6	1330.6	1327.6	1324.5	1321.5	1324.5	1327.6	1330.6
145°	1407.2	1405.2	1403.2	1401.0	1398.6	1396.2	1393.9	1391.5	1393.9	1396.2	1398.6
147.5°	1470.1	1468.7	1467.4	1465.3	1462.5	1459.6	1456.7	1453.9	1456.7	1459.6	1462.5
150°	1509.0	1507.7	1506.3	1504.7	1502.7	1500.7	1498.5	1496.5	1498.5	1500.7	1502.7
152.5°	1547.5	1545.9	1544.3	1542.5	1540.3	1538.3	1536.3	1534.3	1536.3	1538.3	1540.3
155°	1598.0	1597.0	1596.0	1595.0	1594.0	1593.0	1592.0	1590.9	1592.0	1593.0	1594.0
157.5°	1644.0	1643.4	1642.7	1642.0	1641.4	1640.7	1640.0	1639.3	1640.0	1640.7	1641.4
160°	1672.4	1672.1	1671.8	1671.3	1670.6	1669.9	1669.3	1668.6	1669.3	1669.9	1670.6
162.5°	1696.9	1696.5	1696.2	1696.0	1695.8	1695.7	1695.6	1695.4	1695.6	1695.7	1695.8
165°	1729.5	1729.5	1729.5	1729.7	1730.0	1730.3	1730.7	1731.0	1730.7	1730.3	1730.0
167.5°	1756.2	1756.2	1756.3	1756.8	1757.8	1758.8	1759.8	1760.8	1759.8	1758.8	1757.8
170°	1771.3	1771.6	1771.9	1772.6	1773.6	1774.6	1775.6	1776.7	1775.6	1774.6	1773.6
172.5°	1782.2	1782.6	1782.9	1783.6	1784.6	1785.6	1786.7	1787.7	1786.7	1785.6	1784.6
175°	1794.7	1795.4	1796.1	1797.0	1798.0	1799.0	1800.0	1801.0	1800.0	1799.0	1798.0
177.5°	1801.5	1802.0	1802.6	1803.3	1804.1	1804.9	1805.7	1806.5	1805.7	1804.9	1804.1
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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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°	15.3	15.9	16.1	17.6	19.1	19.9	19.8	19.1	18.9	18.8	18.2
90°	17.8	23.5	31.0	38.4	45.8	53.3	52.6	51.9	51.3	50.6	50.4
92.5°	39.0	41.4	43.1	44.9	46.7	48.4	48.6	48.7	48.8	49.0	49.1
95°	92.7	94.7	95.4	96.0	96.7	97.5	97.5	97.5	97.5	97.5	97.0
97.5°	156.5	158.6	160.0	161.3	162.5	163.8	163.8	163.8	163.8	163.8	163.8
100°	204.2	206.0	207.0	208.0	209.0	210.1	210.1	210.1	210.1	210.1	210.0
102.5°	253.2	254.9	256.2	257.4	258.7	260.0	260.3	260.5	260.8	261.2	261.1
105°	331.3	332.2	333.0	333.6	334.3	335.0	335.6	336.3	337.0	337.6	338.0
107.5°	416.7	417.5	417.5	417.5	417.5	417.5	417.7	418.0	418.3	418.5	417.9
110°	472.4	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	472.9



TEST NUMBER: P331862-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	530.9	531.8	531.5	531.3	531.0	530.7	529.9	529.1	528.3	527.5	526.6
115°	617.1	617.7	617.1	616.4	615.7	615.1	614.7	614.4	614.0	613.7	613.0
117.5°	705.7	706.1	704.2	702.3	700.3	698.5	697.7	696.9	696.1	695.3	694.3
120°	763.0	763.0	760.2	757.5	754.8	752.0	752.0	752.0	752.0	752.0	751.5
122.5°	817.5	818.1	816.3	814.4	812.4	810.5	809.7	808.9	808.1	807.3	806.5
125°	898.3	899.3	898.3	897.3	896.3	895.1	894.1	893.1	892.1	891.1	890.5
127.5°	981.0	982.3	981.1	979.9	978.7	977.4	976.1	974.9	973.7	972.5	971.4
130°	1033.1	1034.9	1034.2	1033.6	1032.9	1032.2	1031.6	1030.9	1030.2	1029.5	1028.4
132.5°	1085.8	1087.7	1087.8	1087.9	1088.1	1088.2	1086.7	1085.3	1083.8	1082.3	1081.0
135°	1161.2	1163.5	1164.2	1164.9	1165.5	1166.2	1165.9	1165.5	1165.2	1164.9	1164.2
137.5°	1237.4	1239.4	1240.3	1241.1	1242.0	1242.9	1242.6	1242.3	1242.1	1241.8	1241.0
140°	1285.0	1287.3	1289.0	1290.7	1292.4	1294.0	1294.0	1294.0	1294.0	1294.0	1293.4
142.5°	1333.6	1335.7	1336.9	1338.1	1339.2	1340.4	1340.6	1340.9	1341.2	1341.4	1340.9
145°	1401.0	1403.2	1405.2	1407.2	1409.3	1411.3	1411.6	1412.0	1412.3	1412.6	1412.1
147.5°	1465.3	1467.4	1468.7	1470.1	1471.5	1472.8	1473.6	1474.3	1475.0	1475.8	1475.5
150°	1504.7	1506.3	1507.7	1509.0	1510.5	1511.8	1512.8	1513.8	1514.8	1515.8	1515.8
152.5°	1542.5	1544.3	1545.9	1547.5	1549.1	1550.7	1552.1	1553.3	1554.6	1555.9	1555.9
155°	1595.0	1596.0	1597.0	1598.0	1599.0	1600.0	1601.7	1603.5	1605.2	1606.8	1607.2
157.5°	1642.0	1642.7	1643.4	1644.0	1644.6	1645.2	1647.4	1649.7	1652.0	1654.4	1654.7
160°	1671.3	1671.8	1672.1	1672.4	1672.8	1673.1	1675.2	1677.2	1679.2	1681.2	1681.6
162.5°	1696.0	1696.2	1696.5	1696.9	1697.2	1697.5	1699.8	1702.1	1704.5	1706.7	1707.1
165°	1729.7	1729.5	1729.5	1729.5	1729.5	1729.5	1731.8	1734.2	1736.6	1739.0	1739.3
167.5°	1756.8	1756.3	1756.2	1756.2	1756.1	1756.0	1758.4	1760.7	1763.1	1765.4	1765.7
170°	1772.6	1771.9	1771.6	1771.3	1770.9	1770.6	1772.9	1775.3	1777.7	1780.1	1780.2
172.5°	1783.6	1782.9	1782.6	1782.2	1781.9	1781.5	1783.9	1786.2	1788.7	1791.0	1791.2
175°	1797.0	1796.1	1795.4	1794.7	1794.1	1793.4	1795.8	1798.2	1800.5	1802.9	1803.1
177.5°	1803.3	1802.6	1802.0	1801.5	1801.0	1800.4	1802.0	1803.7	1805.3	1807.0	1807.0
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



TEST NUMBER: P331862-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-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°	18.2	17.7	18.4	17.8	18.4	17.7	18.2	18.2	18.8	18.9	19.1
90°	50.8	51.1	51.4	51.8	51.4	51.1	50.8	50.4	50.6	51.3	51.9
92.5°	49.1	49.2	49.3	49.3	49.3	49.2	49.1	49.1	49.0	48.8	48.7
95°	96.4	95.7	95.0	94.4	95.0	95.7	96.4	97.0	97.5	97.5	97.5
97.5°	163.7	163.6	163.6	163.5	163.6	163.6	163.7	163.8	163.8	163.8	163.8
100°	209.5	209.2	208.9	208.5	208.9	209.2	209.5	210.0	210.1	210.1	210.1
102.5°	260.7	260.4	260.0	259.7	260.0	260.4	260.7	261.1	261.2	260.8	260.5
105°	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	337.6	337.0	336.3
107.5°	416.4	414.8	413.2	411.6	413.2	414.8	416.4	417.9	418.5	418.3	418.0
110°	471.9	470.9	469.9	468.9	469.9	470.9	471.9	472.9	473.5	473.5	473.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	525.9	525.2	524.4	523.7	524.4	525.2	525.9	526.6	527.5	528.3	529.1
115°	612.0	611.0	610.0	608.9	610.0	611.0	612.0	613.0	613.7	614.0	614.4
117.5°	693.3	692.3	691.3	690.2	691.3	692.3	693.3	694.3	695.3	696.1	696.9
120°	750.5	749.5	748.5	747.5	748.5	749.5	750.5	751.5	752.0	752.0	752.0
122.5°	805.8	805.1	804.3	803.5	804.3	805.1	805.8	806.5	807.3	808.1	808.9
125°	890.1	889.8	889.5	889.1	889.5	889.8	890.1	890.5	891.1	892.1	893.1
127.5°	970.3	969.2	968.2	967.0	968.2	969.2	970.3	971.4	972.5	973.7	974.9
130°	1027.1	1025.8	1024.4	1023.1	1024.4	1025.8	1027.1	1028.4	1029.5	1030.2	1030.9
132.5°	1079.9	1078.8	1077.7	1076.6	1077.7	1078.8	1079.9	1081.0	1082.3	1083.8	1085.3
135°	1163.2	1162.2	1161.1	1160.1	1161.1	1162.2	1163.2	1164.2	1164.9	1165.2	1165.5
137.5°	1239.7	1238.3	1237.0	1235.6	1237.0	1238.3	1239.7	1241.0	1241.8	1242.1	1242.3
140°	1292.0	1290.7	1289.3	1288.0	1289.3	1290.7	1292.0	1293.4	1294.0	1294.0	1294.0
142.5°	1339.6	1338.2	1336.9	1335.4	1336.9	1338.2	1339.6	1340.9	1341.4	1341.2	1340.9
145°	1410.8	1409.5	1408.1	1406.7	1408.1	1409.5	1410.8	1412.1	1412.6	1412.3	1412.0
147.5°	1474.2	1472.9	1471.7	1470.4	1471.7	1472.9	1474.2	1475.5	1475.8	1475.0	1474.3
150°	1514.8	1513.8	1512.8	1511.8	1512.8	1513.8	1514.8	1515.8	1515.8	1514.8	1513.8
152.5°	1554.6	1553.3	1552.1	1550.7	1552.1	1553.3	1554.6	1555.9	1555.9	1554.6	1553.3
155°	1606.2	1605.2	1604.2	1603.2	1604.2	1605.2	1606.2	1607.2	1606.8	1605.2	1603.5
157.5°	1653.0	1651.4	1649.8	1648.2	1649.8	1651.4	1653.0	1654.7	1654.4	1652.0	1649.7
160°	1680.2	1678.9	1677.6	1676.2	1677.6	1678.9	1680.2	1681.6	1681.2	1679.2	1677.2
162.5°	1705.5	1703.8	1702.2	1700.5	1702.2	1703.8	1705.5	1707.1	1706.7	1704.5	1702.1
165°	1737.6	1736.0	1734.2	1732.5	1734.2	1736.0	1737.6	1739.3	1739.0	1736.6	1734.2
167.5°	1764.0	1762.2	1760.5	1758.7	1760.5	1762.2	1764.0	1765.7	1765.4	1763.1	1760.7
170°	1778.2	1776.2	1774.1	1772.1	1774.1	1776.2	1778.2	1780.2	1780.1	1777.7	1775.3
172.5°	1789.2	1787.2	1785.1	1783.1	1785.1	1787.2	1789.2	1791.2	1791.0	1788.7	1786.2
175°	1801.0	1799.0	1797.0	1794.9	1797.0	1799.0	1801.0	1803.1	1802.9	1800.5	1798.2
177.5°	1805.3	1803.7	1802.0	1800.4	1802.0	1803.7	1805.3	1807.0	1807.0	1805.3	1803.7
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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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°	19.8	19.9	19.1	17.6	16.1	15.9	15.3	15.1	15.6	16.6	18.3
90°	52.6	53.3	45.8	38.4	31.0	23.5	17.8	13.7	9.6	5.6	1.5
92.5°	48.6	48.4	46.7	44.9	43.1	41.4	39.0	36.1	33.0	30.1	27.1
95°	97.5	97.5	96.7	96.0	95.4	94.7	92.7	89.3	85.9	82.5	79.2
97.5°	163.8	163.8	162.5	161.3	160.0	158.6	156.5	153.6	150.6	147.6	144.6
100°	210.1	210.1	209.0	208.0	207.0	206.0	204.2	201.5	198.7	196.0	193.4
102.5°	260.3	260.0	258.7	257.4	256.2	254.9	253.2	251.0	248.8	246.7	244.5
105°	335.6	335.0	334.3	333.6	333.0	332.2	331.3	330.3	329.3	328.3	327.3
107.5°	417.7	417.5	417.5	417.5	417.5	417.5	416.7	415.3	413.7	412.2	410.7
110°	473.5	473.5	473.5	473.5	473.5	473.5	472.4	470.4	468.4	466.4	464.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	529.9	530.7	531.0	531.3	531.5	531.8	530.9	528.9	526.8	524.8	522.8
115°	614.7	615.1	615.7	616.4	617.1	617.7	617.1	615.1	613.0	611.0	608.9
117.5°	697.7	698.5	700.3	702.3	704.2	706.1	705.7	703.0	700.2	697.5	694.9
120°	752.0	752.0	754.8	757.5	760.2	763.0	763.0	760.2	757.5	754.8	752.0
122.5°	809.7	810.5	812.4	814.4	816.3	818.1	817.5	814.2	810.9	807.7	804.5
125°	894.1	895.1	896.3	897.3	898.3	899.3	898.3	895.1	892.1	889.1	886.1
127.5°	976.1	977.4	978.7	979.9	981.1	982.3	981.0	977.1	973.2	969.4	965.5
130°	1031.6	1032.2	1032.9	1033.6	1034.2	1034.9	1033.1	1028.6	1024.3	1019.9	1015.4
132.5°	1086.7	1088.2	1088.1	1087.9	1087.8	1087.7	1085.8	1082.3	1078.6	1075.1	1071.5
135°	1165.9	1166.2	1165.5	1164.9	1164.2	1163.5	1161.2	1157.5	1153.9	1150.1	1146.4
137.5°	1242.6	1242.9	1242.0	1241.1	1240.3	1239.4	1237.4	1234.4	1231.3	1228.3	1225.3
140°	1294.0	1294.0	1292.4	1290.7	1289.0	1287.3	1285.0	1281.9	1278.9	1275.8	1272.7
142.5°	1340.6	1340.4	1339.2	1338.1	1336.9	1335.7	1333.6	1330.6	1327.6	1324.5	1321.5
145°	1411.6	1411.3	1409.3	1407.2	1405.2	1403.2	1401.0	1398.6	1396.2	1393.9	1391.5
147.5°	1473.6	1472.8	1471.5	1470.1	1468.7	1467.4	1465.3	1462.5	1459.6	1456.7	1453.9
150°	1512.8	1511.8	1510.5	1509.0	1507.7	1506.3	1504.7	1502.7	1500.7	1498.5	1496.5
152.5°	1552.1	1550.7	1549.1	1547.5	1545.9	1544.3	1542.5	1540.3	1538.3	1536.3	1534.3
155°	1601.7	1600.0	1599.0	1598.0	1597.0	1596.0	1595.0	1594.0	1593.0	1592.0	1590.9
157.5°	1647.4	1645.2	1644.6	1644.0	1643.4	1642.7	1642.0	1641.4	1640.7	1640.0	1639.3
160°	1675.2	1673.1	1672.8	1672.4	1672.1	1671.8	1671.3	1670.6	1669.9	1669.3	1668.6
162.5°	1699.8	1697.5	1697.2	1696.9	1696.5	1696.2	1696.0	1695.8	1695.7	1695.6	1695.4
165°	1731.8	1729.5	1729.5	1729.5	1729.5	1729.5	1729.7	1730.0	1730.3	1730.7	1731.0
167.5°	1758.4	1756.0	1756.1	1756.2	1756.2	1756.3	1756.8	1757.8	1758.8	1759.8	1760.8
170°	1772.9	1770.6	1770.9	1771.3	1771.6	1771.9	1772.6	1773.6	1774.6	1775.6	1776.7
172.5°	1783.9	1781.5	1781.9	1782.2	1782.6	1782.9	1783.6	1784.6	1785.6	1786.7	1787.7
175°	1795.8	1793.4	1794.1	1794.7	1795.4	1796.1	1797.0	1798.0	1799.0	1800.0	1801.0
177.5°	1802.0	1800.4	1801.0	1801.5	1802.0	1802.6	1803.3	1804.1	1804.9	1805.7	1806.5
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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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°	16.0	13.7	13.8	14.0	15.9	17.4	18.2	19.7	21.8	21.0	21.5
90°	5.6	9.6	13.7	17.8	23.5	31.0	38.4	45.8	53.3	52.6	51.9
92.5°	30.1	33.0	36.1	39.0	41.4	43.1	44.9	46.7	48.4	48.6	48.7
95°	82.5	85.9	89.3	92.7	94.7	95.4	96.0	96.7	97.5	97.5	97.5
97.5°	147.6	150.6	153.6	156.5	158.6	160.0	161.3	162.5	163.8	163.8	163.8
100°	196.0	198.7	201.5	204.2	206.0	207.0	208.0	209.0	210.1	210.1	210.1
102.5°	246.7	248.8	251.0	253.2	254.9	256.2	257.4	258.7	260.0	260.3	260.5
105°	328.3	329.3	330.3	331.3	332.2	333.0	333.6	334.3	335.0	335.6	336.3
107.5°	412.2	413.7	415.3	416.7	417.5	417.5	417.5	417.5	417.5	417.7	418.0
110°	466.4	468.4	470.4	472.4	473.5	473.5	473.5	473.5	473.5	473.5	473.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	524.8	526.8	528.9	530.9	531.8	531.5	531.3	531.0	530.7	529.9	529.1
115°	611.0	613.0	615.1	617.1	617.7	617.1	616.4	615.7	615.1	614.7	614.4
117.5°	697.5	700.2	703.0	705.7	706.1	704.2	702.3	700.3	698.5	697.7	696.9
120°	754.8	757.5	760.2	763.0	763.0	760.2	757.5	754.8	752.0	752.0	752.0
122.5°	807.7	810.9	814.2	817.5	818.1	816.3	814.4	812.4	810.5	809.7	808.9
125°	889.1	892.1	895.1	898.3	899.3	898.3	897.3	896.3	895.1	894.1	893.1
127.5°	969.4	973.2	977.1	981.0	982.3	981.1	979.9	978.7	977.4	976.1	974.9
130°	1019.9	1024.3	1028.6	1033.1	1034.9	1034.2	1033.6	1032.9	1032.2	1031.6	1030.9
132.5°	1075.1	1078.6	1082.3	1085.8	1087.7	1087.8	1087.9	1088.1	1088.2	1086.7	1085.3
135°	1150.1	1153.9	1157.5	1161.2	1163.5	1164.2	1164.9	1165.5	1166.2	1165.9	1165.5
137.5°	1228.3	1231.3	1234.4	1237.4	1239.4	1240.3	1241.1	1242.0	1242.9	1242.6	1242.3
140°	1275.8	1278.9	1281.9	1285.0	1287.3	1289.0	1290.7	1292.4	1294.0	1294.0	1294.0
142.5°	1324.5	1327.6	1330.6	1333.6	1335.7	1336.9	1338.1	1339.2	1340.4	1340.6	1340.9
145°	1393.9	1396.2	1398.6	1401.0	1403.2	1405.2	1407.2	1409.3	1411.3	1411.6	1412.0
147.5°	1456.7	1459.6	1462.5	1465.3	1467.4	1468.7	1470.1	1471.5	1472.8	1473.6	1474.3
150°	1498.5	1500.7	1502.7	1504.7	1506.3	1507.7	1509.0	1510.5	1511.8	1512.8	1513.8
152.5°	1536.3	1538.3	1540.3	1542.5	1544.3	1545.9	1547.5	1549.1	1550.7	1552.1	1553.3
155°	1592.0	1593.0	1594.0	1595.0	1596.0	1597.0	1598.0	1599.0	1600.0	1601.7	1603.5
157.5°	1640.0	1640.7	1641.4	1642.0	1642.7	1643.4	1644.0	1644.6	1645.2	1647.4	1649.7
160°	1669.3	1669.9	1670.6	1671.3	1671.8	1672.1	1672.4	1672.8	1673.1	1675.2	1677.2
162.5°	1695.6	1695.7	1695.8	1696.0	1696.2	1696.5	1696.9	1697.2	1697.5	1699.8	1702.1
165°	1730.7	1730.3	1730.0	1729.7	1729.5	1729.5	1729.5	1729.5	1729.5	1731.8	1734.2
167.5°	1759.8	1758.8	1757.8	1756.8	1756.3	1756.2	1756.2	1756.1	1756.0	1758.4	1760.7
170°	1775.6	1774.6	1773.6	1772.6	1771.9	1771.6	1771.3	1770.9	1770.6	1772.9	1775.3
172.5°	1786.7	1785.6	1784.6	1783.6	1782.9	1782.6	1782.2	1781.9	1781.5	1783.9	1786.2
175°	1800.0	1799.0	1798.0	1797.0	1796.1	1795.4	1794.7	1794.1	1793.4	1795.8	1798.2
177.5°	1805.7	1804.9	1804.1	1803.3	1802.6	1802.0	1801.5	1801.0	1800.4	1802.0	1803.7
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1



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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°	20.8	20.6	20.6	20.7	20.7	20.8	20.3
90°	51.3	50.6	50.4	50.8	51.1	51.4	51.8
92.5°	48.8	49.0	49.1	49.1	49.2	49.3	49.3
95°	97.5	97.5	97.0	96.4	95.7	95.0	94.4
97.5°	163.8	163.8	163.8	163.7	163.6	163.6	163.5
100°	210.1	210.1	210.0	209.5	209.2	208.9	208.5
102.5°	260.8	261.2	261.1	260.7	260.4	260.0	259.7
105°	337.0	337.6	338.0	338.0	338.0	338.0	338.0
107.5°	418.3	418.5	417.9	416.4	414.8	413.2	411.6
110°	473.5	473.5	472.9	471.9	470.9	469.9	468.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	528.3	527.5	526.6	525.9	525.2	524.4	523.7
115°	614.0	613.7	613.0	612.0	611.0	610.0	608.9
117.5°	696.1	695.3	694.3	693.3	692.3	691.3	690.2
120°	752.0	752.0	751.5	750.5	749.5	748.5	747.5
122.5°	808.1	807.3	806.5	805.8	805.1	804.3	803.5
125°	892.1	891.1	890.5	890.1	889.8	889.5	889.1
127.5°	973.7	972.5	971.4	970.3	969.2	968.2	967.0
130°	1030.2	1029.5	1028.4	1027.1	1025.8	1024.4	1023.1
132.5°	1083.8	1082.3	1081.0	1079.9	1078.8	1077.7	1076.6
135°	1165.2	1164.9	1164.2	1163.2	1162.2	1161.1	1160.1
137.5°	1242.1	1241.8	1241.0	1239.7	1238.3	1237.0	1235.6
140°	1294.0	1294.0	1293.4	1292.0	1290.7	1289.3	1288.0
142.5°	1341.2	1341.4	1340.9	1339.6	1338.2	1336.9	1335.4
145°	1412.3	1412.6	1412.1	1410.8	1409.5	1408.1	1406.7
147.5°	1475.0	1475.8	1475.5	1474.2	1472.9	1471.7	1470.4
150°	1514.8	1515.8	1515.8	1514.8	1513.8	1512.8	1511.8
152.5°	1554.6	1555.9	1555.9	1554.6	1553.3	1552.1	1550.7
155°	1605.2	1606.8	1607.2	1606.2	1605.2	1604.2	1603.2
157.5°	1652.0	1654.4	1654.7	1653.0	1651.4	1649.8	1648.2
160°	1679.2	1681.2	1681.6	1680.2	1678.9	1677.6	1676.2
162.5°	1704.5	1706.7	1707.1	1705.5	1703.8	1702.2	1700.5
165°	1736.6	1739.0	1739.3	1737.6	1736.0	1734.2	1732.5
167.5°	1763.1	1765.4	1765.7	1764.0	1762.2	1760.5	1758.7
170°	1777.7	1780.1	1780.2	1778.2	1776.2	1774.1	1772.1
172.5°	1788.7	1791.0	1791.2	1789.2	1787.2	1785.1	1783.1
175°	1800.5	1802.9	1803.1	1801.0	1799.0	1797.0	1794.9
177.5°	1805.3	1807.0	1807.0	1805.3	1803.7	1802.0	1800.4
180°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1

(END OF REPORT)