

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: P332854-840

Luminaire Tested: **S124DIW-S1195D1340U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332854-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1340U840-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10073.4 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

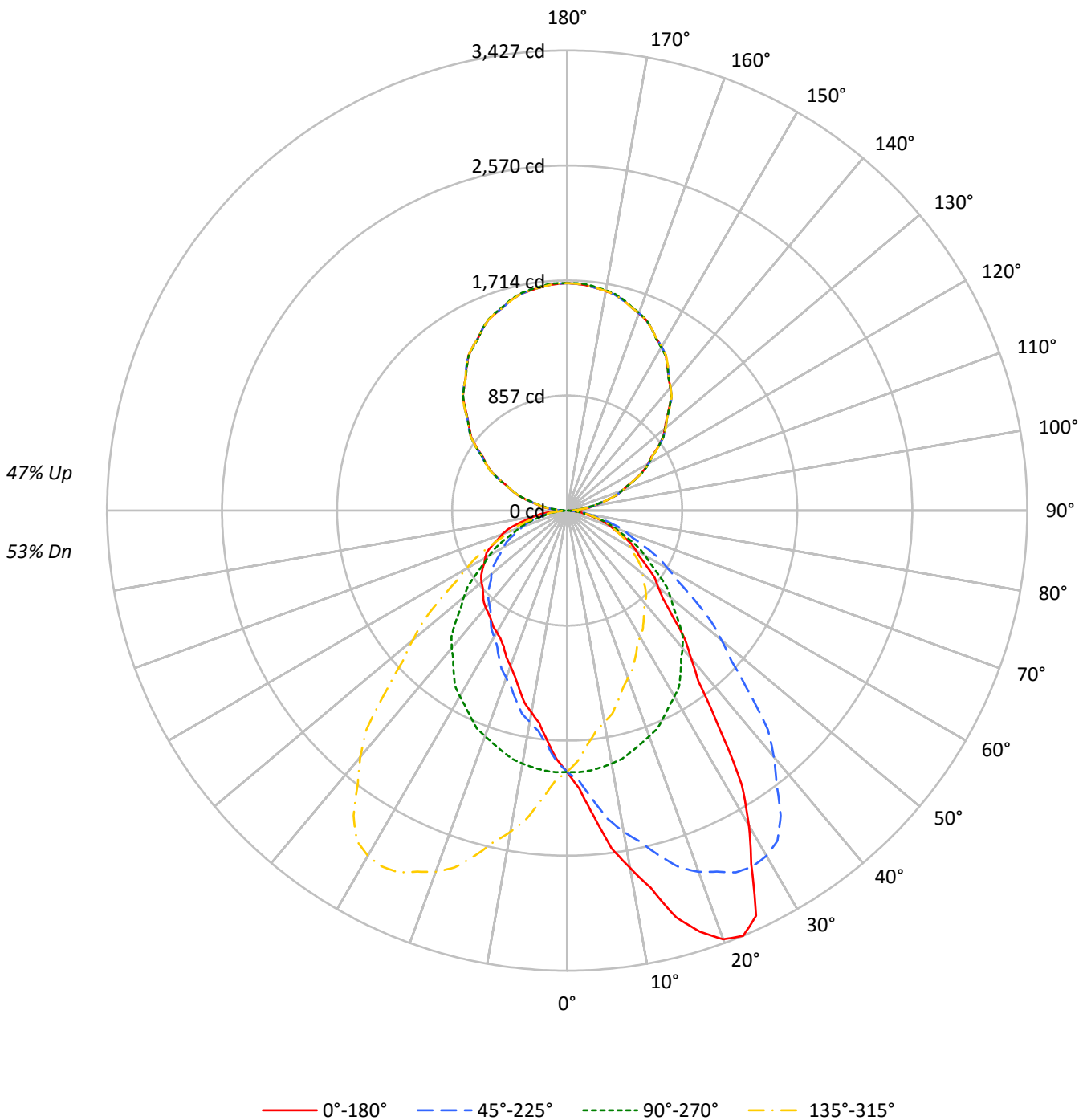
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
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				
1	99	94	91	87	91	88	84	81	75	73	70	63	62	60	53	52	50	45				
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38				
3	82	73	66	60	76	68	62	56	58	54	50	50	46	43	42	39	37	33				
4	75	65	57	51	70	60	53	48	52	47	43	44	40	37	37	34	32	28				
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	34	30	28	25				
6	64	52	44	38	59	49	41	36	42	37	32	36	32	28	31	27	25	22				
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22	19				
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	17				
9	51	39	32	27	48	37	30	25	32	27	23	28	23	20	24	20	18	16				
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15713	15713	15713	15713
5°	18504	15754	13904	15754
10°	22155	15684	12518	15684
15°	26213	15525	11496	15525
20°	29190	15364	10584	15364
25°	29661	15126	9954	15126
30°	25239	14897	9755	14897
35°	19404	14526	9758	14526
40°	15125	14089	9941	14089
45°	12611	13431	10107	13431
50°	11099	12627	10451	12627
55°	10169	11667	10871	11667
60°	9529	10805	11378	10805
65°	8871	9841	11798	9841
70°	8108	8889	12066	8889
75°	7243	7820	11918	7820
80°	6072	6406	11544	6406
85°	4483	4631	11060	4631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.9
10°-20°	584.5	5.8
20°-30°	926.8	9.2
30°-40°	1031.4	10.2
40°-50°	938.9	9.3
50°-60°	767.2	7.6
60°-70°	547.7	5.4
70°-80°	301.6	3.0
80°-90°	87.4	0.9
90°-100°	111.7	1.1
100°-110°	330.9	3.3
110°-120°	561.6	5.6
120°-130°	740.5	7.4
130°-140°	831.6	8.3
140°-150°	817.2	8.1
150°-160°	687.3	6.8
160°-170°	457.3	4.5
170°-180°	160.1	1.6
0°-30°	1700.9	16.9
0°-40°	2732.3	27.1
0°-60°	4438.4	44.1
0°-90°	5375.2	53.4
90°-120°	1004.2	10.0
90°-150°	3393.5	33.7
90°-180°	4698.0	46.6
0°-180°	10073.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1946	1946	1946	1946	1946	
5°	2283	1944	1716	1944	2283	232
15°	3136	1858	1376	1858	3136	886
25°	3330	1698	1118	1698	3330	1468
35°	1969	1474	990	1474	1969	1250
45°	1105	1176	885	1176	1105	870
55°	722	829	772	829	722	653
65°	464	515	618	515	464	460
75°	232	251	382	251	232	247
85°	48	50	119	50	48	60
90°	39	4	39	4	39	22
95°	104	79	104	79	104	108
105°	320	305	320	305	320	337
115°	566	571	566	571	566	559
125°	825	832	825	832	825	736
135°	1074	1073	1074	1073	1074	829
145°	1304	1303	1304	1303	1304	816
155°	1492	1493	1492	1493	1492	687
165°	1621	1625	1621	1625	1621	457
175°	1683	1691	1683	1691	1683	160
180°	1693	1693	1693	1693	1693	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2071.5	2070.8	2064.5	2063.2	2058.6	2052.9	2051.5	2041.2	2020.5	2010.8	2008.3
5°	2283.4	2299.6	2278.6	2274.5	2272.1	2245.5	2231.8	2215.6	2178.6	2156.9	2139.9
7.5°	2536.3	2538.2	2529.0	2521.6	2501.1	2477.9	2443.1	2406.0	2361.8	2315.8	2281.2
10°	2702.7	2709.2	2698.7	2697.0	2655.9	2630.1	2578.5	2535.0	2485.0	2429.3	2378.5
12.5°	2878.1	2869.1	2863.8	2829.2	2821.7	2774.6	2714.6	2669.8	2592.7	2528.7	2461.1
15°	3136.4	3118.8	3107.5	3059.9	3036.5	2971.1	2907.5	2858.3	2757.5	2661.6	2589.0
17.5°	3288.0	3305.8	3279.6	3260.1	3199.7	3153.9	3088.8	2985.6	2906.7	2787.5	2695.9
20°	3397.7	3399.3	3384.8	3364.7	3317.1	3259.0	3188.0	3075.1	2980.8	2862.4	2736.5
22.5°	3427.4	3427.7	3421.5	3402.7	3366.7	3319.6	3248.0	3153.9	3039.6	2910.7	2784.9
25°	3329.9	3326.7	3334.0	3355.0	3341.2	3326.7	3285.6	3215.5	3109.1	2972.7	2837.3
27.5°	2968.1	2990.3	3031.3	3082.9	3132.6	3170.5	3181.2	3166.7	3100.8	2988.8	2846.8
30°	2707.5	2734.9	2765.6	2817.1	2917.2	2974.4	3037.3	3084.8	3058.3	2968.8	2836.5
32.5°	2421.2	2427.9	2473.4	2532.0	2623.6	2733.8	2833.5	2930.0	2962.1	2915.2	2804.9
35°	1968.9	1980.2	2029.4	2087.5	2199.6	2334.2	2484.2	2618.0	2728.5	2772.8	2716.3
37.5°	1606.8	1639.2	1673.9	1736.3	1834.9	1956.2	2112.0	2285.2	2449.8	2560.1	2578.8
40°	1435.2	1455.3	1480.4	1527.9	1611.7	1731.1	1864.9	2063.3	2238.3	2396.3	2447.9
42.5°	1299.7	1311.5	1326.9	1369.9	1433.7	1552.5	1674.7	1849.2	2024.8	2213.7	2300.2
45°	1104.6	1116.7	1142.5	1167.5	1215.9	1298.1	1411.8	1555.3	1731.9	1914.1	2073.8
47.5°	963.7	971.4	986.7	1013.5	1054.6	1108.8	1201.3	1321.2	1484.9	1661.7	1831.9
50°	883.7	890.1	902.2	926.5	957.9	1006.2	1082.1	1194.1	1322.3	1500.5	1667.4
52.5°	820.5	823.0	831.9	848.4	873.3	914.0	976.2	1068.9	1188.1	1347.0	1513.3
55°	722.5	725.7	733.8	745.8	767.6	793.3	840.9	910.3	1014.3	1152.2	1296.5
57.5°	641.8	644.1	650.9	655.5	673.4	694.4	730.9	780.5	859.3	976.2	1105.1
60°	590.2	588.5	596.6	600.7	612.8	630.6	658.7	706.3	774.9	869.2	987.7
62.5°	539.9	537.7	544.4	549.8	556.6	571.8	594.9	632.2	687.7	773.1	875.5
65°	464.4	461.2	465.2	471.7	478.2	486.1	503.1	536.1	580.6	641.8	720.0
67.5°	388.6	392.0	392.6	395.9	399.6	410.6	422.1	445.6	476.9	525.8	592.2
70°	343.5	344.3	347.5	347.5	349.9	359.6	369.3	382.9	413.6	458.8	512.8
72.5°	298.3	301.7	300.4	303.0	304.8	311.2	318.3	331.3	357.5	391.0	436.7
75°	232.2	234.6	234.6	235.4	237.8	240.2	245.9	255.6	274.2	299.1	330.5
77.5°	169.4	169.7	170.8	173.7	173.7	177.5	181.8	189.5	198.6	215.8	235.0
80°	130.6	132.2	131.4	133.0	133.0	136.2	137.8	147.5	151.6	162.9	178.1
82.5°	95.8	97.4	97.3	99.5	100.8	101.4	103.7	107.6	111.6	121.6	127.8
85°	48.4	50.0	48.4	50.0	52.4	53.2	55.6	56.5	59.7	62.1	67.8
87.5°	22.0	23.8	23.7	24.2	25.4	25.9	26.2	25.1	27.4	27.7	29.8
90°	39.3	38.7	38.2	37.6	37.0	35.7	34.0	32.3	30.6	28.8	26.5
92.5°	58.2	57.8	57.5	57.1	56.8	56.0	55.0	53.9	52.9	51.9	50.2
95°	103.5	103.5	103.5	103.5	103.5	103.0	102.2	101.3	100.4	99.6	97.5
97.5°	162.2	162.2	162.2	162.2	162.2	161.6	160.6	159.6	158.4	157.4	155.0
100°	203.0	203.0	203.0	203.0	203.0	202.7	202.2	201.6	201.0	200.4	197.7
102.5°	249.1	248.8	248.6	248.4	248.1	247.6	246.8	246.0	245.2	244.4	242.0
105°	319.5	318.7	317.8	316.9	316.1	315.2	314.4	313.5	312.6	311.7	310.5
107.5°	388.2	388.3	388.3	388.4	388.4	388.1	387.2	386.4	385.6	384.8	384.7
110°	437.5	436.6	435.7	434.8	433.9	433.8	434.3	434.9	435.6	436.2	436.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	487.8	487.6	487.4	487.2	487.1	487.0	487.2	487.3	487.4	487.5	488.0
115°	565.8	566.0	566.3	566.6	566.9	567.2	567.5	567.8	568.2	568.4	569.0
117.5°	640.2	640.8	641.4	641.9	642.5	643.3	644.3	645.3	646.2	647.2	647.6
120°	696.7	696.2	695.6	695.0	694.4	694.9	696.3	697.8	699.2	700.6	701.6
122.5°	743.9	745.0	746.0	747.0	748.1	749.1	750.1	751.0	752.0	753.1	753.5
125°	825.1	825.7	826.3	826.9	827.4	828.0	828.6	829.2	829.7	830.3	830.6
127.5°	900.3	900.7	901.2	901.7	902.1	902.6	903.2	903.8	904.4	904.9	905.4
130°	949.5	950.7	951.8	953.0	954.2	955.0	955.6	956.2	956.7	957.4	957.4
132.5°	1001.9	1002.4	1002.8	1003.3	1003.8	1004.3	1004.9	1005.4	1006.0	1006.6	1006.8
135°	1073.9	1074.8	1075.7	1076.5	1077.4	1078.1	1078.7	1079.3	1079.9	1080.5	1080.5
137.5°	1149.6	1149.4	1149.3	1149.1	1148.9	1149.2	1150.0	1150.7	1151.4	1152.3	1151.8
140°	1195.8	1196.0	1196.3	1196.6	1196.9	1197.2	1197.5	1197.8	1198.1	1198.3	1198.3
142.5°	1241.8	1241.9	1241.9	1242.0	1242.0	1242.1	1242.2	1242.2	1242.3	1242.3	1242.6
145°	1304.4	1305.4	1306.2	1307.1	1308.0	1308.5	1308.8	1309.1	1309.4	1309.7	1309.4
147.5°	1367.9	1368.2	1368.4	1368.7	1369.0	1369.3	1369.5	1369.7	1370.0	1370.2	1370.4
150°	1406.6	1406.8	1407.1	1407.4	1407.8	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
152.5°	1442.2	1443.0	1443.7	1444.5	1445.2	1445.3	1444.6	1443.9	1443.2	1442.5	1442.3
155°	1491.8	1492.9	1494.1	1495.2	1496.4	1496.4	1495.2	1494.1	1492.9	1491.8	1492.0
157.5°	1536.0	1537.0	1537.9	1538.9	1539.9	1540.0	1539.1	1538.2	1537.4	1536.5	1536.6
160°	1561.2	1562.6	1564.1	1565.5	1566.9	1567.2	1566.4	1565.5	1564.6	1563.8	1564.1
162.5°	1587.3	1588.8	1590.2	1591.6	1593.2	1593.1	1591.5	1589.9	1588.4	1586.8	1587.1
165°	1621.3	1622.6	1623.7	1624.9	1626.1	1625.8	1624.0	1622.2	1620.5	1618.7	1619.3
167.5°	1645.8	1647.6	1649.3	1651.1	1652.9	1652.9	1651.2	1649.5	1647.8	1646.0	1646.0
170°	1659.4	1661.4	1663.4	1665.5	1667.5	1667.7	1665.9	1664.2	1662.4	1660.6	1660.4
172.5°	1670.9	1672.9	1675.0	1677.0	1679.0	1679.1	1677.1	1675.1	1673.1	1671.1	1671.1
175°	1682.9	1685.0	1687.0	1689.0	1691.1	1691.1	1689.0	1687.0	1685.0	1682.9	1683.2
177.5°	1689.2	1691.1	1692.9	1694.9	1696.7	1696.8	1695.2	1693.5	1691.9	1690.3	1690.3
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2008.9	1999.9	1993.5	1988.3	1974.1	1965.7	1959.2	1950.3	1940.0	1928.9	1915.4
5°	2122.9	2095.6	2075.4	2044.8	2015.7	1991.6	1966.5	1944.0	1916.5	1886.7	1864.9
7.5°	2242.8	2202.0	2149.7	2104.5	2053.5	2009.1	1969.4	1928.8	1886.5	1845.6	1808.1
10°	2318.9	2266.4	2208.4	2139.9	2075.4	2018.1	1964.9	1913.3	1863.3	1813.3	1770.6
12.5°	2400.9	2335.5	2249.7	2169.6	2097.3	2020.7	1956.5	1893.3	1833.0	1780.5	1730.6
15°	2510.8	2416.4	2317.2	2210.0	2114.9	2025.4	1937.5	1857.6	1790.0	1720.6	1672.2
17.5°	2578.4	2461.6	2348.2	2236.1	2121.0	2008.1	1913.3	1821.3	1736.5	1667.6	1606.6
20°	2622.8	2506.8	2365.6	2253.6	2116.5	2000.4	1890.8	1788.4	1699.7	1626.3	1563.4
22.5°	2661.6	2527.4	2386.3	2238.8	2102.3	1979.1	1859.2	1756.1	1665.5	1588.2	1527.9
25°	2682.5	2528.5	2375.3	2228.6	2073.8	1927.8	1819.0	1698.1	1601.2	1519.8	1455.3
27.5°	2684.8	2520.1	2346.8	2183.7	2024.0	1888.0	1750.6	1642.5	1542.1	1456.0	1394.1
30°	2677.7	2506.0	2319.7	2143.1	1982.7	1835.1	1715.8	1598.1	1495.7	1410.2	1345.6
32.5°	2655.1	2476.3	2284.8	2098.0	1931.7	1787.4	1664.2	1552.3	1452.5	1368.3	1300.5
35°	2589.8	2413.2	2209.2	2014.9	1844.8	1698.9	1587.6	1473.9	1373.9	1294.1	1228.8
37.5°	2487.7	2328.0	2120.7	1919.7	1752.5	1606.0	1495.7	1392.9	1302.8	1221.7	1154.8
40°	2398.7	2258.5	2050.4	1854.4	1673.9	1534.4	1431.2	1336.9	1247.3	1170.7	1107.0
42.5°	2296.1	2173.9	1982.1	1774.4	1600.3	1460.2	1359.6	1274.9	1190.5	1119.7	1056.1
45°	2113.2	2032.7	1852.1	1660.1	1478.7	1346.5	1250.5	1176.4	1105.4	1036.1	982.9
47.5°	1903.0	1863.0	1710.9	1528.7	1356.5	1226.2	1143.0	1074.5	1012.2	953.5	906.6
50°	1761.7	1742.4	1610.9	1435.2	1270.7	1148.1	1064.3	1005.4	952.2	900.6	856.3
52.5°	1622.4	1621.7	1503.3	1342.3	1190.1	1072.1	988.9	933.8	887.8	845.8	806.0
55°	1409.4	1432.0	1339.3	1195.7	1059.4	953.0	878.1	828.9	796.6	761.9	732.2
57.5°	1213.8	1251.2	1174.8	1048.3	934.6	836.6	771.3	734.4	700.0	679.0	657.3
60°	1086.1	1121.6	1061.9	955.4	848.2	764.4	702.3	669.2	639.3	624.9	609.6
62.5°	972.5	1004.1	960.0	861.3	768.2	687.6	635.2	603.4	583.3	567.4	557.3
65°	810.3	837.0	799.0	727.3	647.4	583.0	540.2	515.2	495.8	489.4	478.2
67.5°	655.0	679.2	658.7	597.7	533.7	484.9	451.5	427.5	416.1	410.4	402.3
70°	562.8	586.9	565.2	512.0	462.8	421.7	390.2	376.6	364.5	362.0	350.7
72.5°	484.7	501.2	479.4	437.8	395.8	361.0	336.7	322.3	316.1	311.7	305.6
75°	363.7	378.2	363.7	331.3	301.5	277.4	256.4	250.7	243.5	241.1	237.0
77.5°	257.4	269.9	258.8	238.6	216.4	197.7	186.4	179.2	177.5	173.4	175.3
80°	196.7	204.8	194.3	180.6	162.9	150.0	141.9	137.8	133.0	131.4	134.6
82.5°	141.3	144.8	139.5	130.3	117.0	108.7	103.2	98.6	97.6	97.9	97.9
85°	73.4	72.6	71.8	63.7	59.7	54.0	50.8	50.0	49.2	50.8	52.4
87.5°	29.4	29.5	28.4	25.2	22.7	20.1	18.9	17.6	18.9	20.1	21.4
90°	24.1	21.8	19.5	16.8	13.5	10.3	7.2	3.9	7.2	10.3	13.5
92.5°	48.6	47.0	45.3	42.7	39.0	35.3	31.7	28.1	31.7	35.3	39.0
95°	95.4	93.4	91.4	89.1	86.4	83.8	81.2	78.6	81.2	83.8	86.4
97.5°	152.7	150.3	147.8	145.6	143.5	141.5	139.4	137.2	139.4	141.5	143.5
100°	195.1	192.5	189.9	188.0	186.8	185.7	184.5	183.4	184.5	185.7	186.8
102.5°	239.6	237.2	234.8	233.4	233.0	232.5	232.1	231.6	232.1	232.5	233.0
105°	309.4	308.2	307.0	306.3	306.0	305.8	305.5	305.2	305.5	305.8	306.0
107.5°	384.5	384.3	384.1	383.8	383.4	383.1	382.7	382.4	382.7	383.1	383.4
110°	436.7	437.0	437.3	437.2	436.6	436.0	435.4	434.8	435.4	436.0	436.6



TEST NUMBER: P332854-840

CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	488.5	489.1	489.6	489.8	489.7	489.5	489.4	489.3	489.4	489.5	489.7
115°	569.6	570.2	570.8	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
117.5°	648.0	648.4	648.8	648.9	648.7	648.5	648.2	648.0	648.2	648.5	648.7
120°	702.5	703.3	704.2	704.0	702.9	701.7	700.5	699.3	700.5	701.7	702.9
122.5°	753.9	754.3	754.7	754.7	754.2	753.8	753.3	752.8	753.3	753.8	754.2
125°	830.9	831.2	831.5	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6
127.5°	905.9	906.4	906.9	906.7	905.7	904.9	904.0	903.1	904.0	904.9	905.7
130°	957.4	957.4	957.4	956.9	956.0	955.2	954.3	953.4	954.3	955.2	956.0
132.5°	1007.0	1007.3	1007.5	1007.3	1006.7	1006.0	1005.4	1004.8	1005.4	1006.0	1006.7
135°	1080.5	1080.5	1080.5	1079.6	1077.8	1076.1	1074.4	1072.6	1074.4	1076.1	1077.8
137.5°	1151.3	1150.8	1150.4	1149.7	1148.9	1148.1	1147.3	1146.5	1147.3	1148.1	1148.9
140°	1198.3	1198.3	1198.3	1198.1	1197.5	1196.9	1196.3	1195.8	1196.3	1196.9	1197.5
142.5°	1242.8	1243.0	1243.2	1243.1	1242.5	1241.9	1241.3	1240.8	1241.3	1241.9	1242.5
145°	1309.1	1308.8	1308.5	1307.8	1306.7	1305.5	1304.3	1303.1	1304.3	1305.5	1306.7
147.5°	1370.7	1370.9	1371.1	1370.5	1369.2	1367.8	1366.3	1364.9	1366.3	1367.8	1369.2
150°	1407.9	1407.9	1407.9	1407.3	1406.1	1405.0	1403.8	1402.7	1403.8	1405.0	1406.1
152.5°	1442.0	1441.8	1441.6	1441.1	1440.4	1439.7	1439.0	1438.2	1439.0	1439.7	1440.4
155°	1492.3	1492.6	1492.9	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0
157.5°	1536.6	1536.7	1536.7	1537.0	1537.5	1538.1	1538.6	1539.1	1538.6	1538.1	1537.5
160°	1564.4	1564.6	1564.9	1565.2	1565.5	1565.8	1566.1	1566.4	1566.1	1565.8	1565.5
162.5°	1587.4	1587.7	1588.0	1588.5	1589.2	1590.0	1590.7	1591.5	1590.7	1590.0	1589.2
165°	1619.9	1620.5	1621.1	1621.8	1622.7	1623.6	1624.5	1625.3	1624.5	1623.6	1622.7
167.5°	1645.9	1645.9	1645.8	1646.4	1647.6	1648.8	1650.0	1651.2	1650.0	1648.8	1647.6
170°	1660.1	1659.8	1659.5	1660.1	1661.5	1663.0	1664.5	1665.9	1664.5	1663.0	1661.5
172.5°	1671.0	1671.0	1670.9	1671.5	1672.7	1674.0	1675.2	1676.4	1675.2	1674.0	1672.7
175°	1683.5	1683.8	1684.1	1685.0	1686.5	1687.9	1689.3	1690.8	1689.3	1687.9	1686.5
177.5°	1690.3	1690.3	1690.3	1690.8	1692.0	1693.1	1694.4	1695.5	1694.4	1693.1	1692.0
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



TEST NUMBER: P332854-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1908.9	1903.2	1894.8	1883.2	1873.5	1863.2	1860.6	1856.7	1864.4	1858.1	1856.0
5°	1846.4	1829.5	1807.7	1782.7	1768.2	1747.3	1743.2	1735.2	1727.1	1726.3	1718.2
7.5°	1780.1	1755.2	1726.8	1701.2	1677.7	1654.9	1639.8	1636.6	1624.7	1617.7	1609.6
10°	1737.6	1706.9	1673.9	1649.7	1622.2	1598.1	1581.1	1571.5	1563.4	1554.5	1546.5
12.5°	1687.3	1654.7	1627.4	1601.2	1568.7	1550.3	1522.5	1505.7	1504.1	1504.2	1483.3
15°	1628.7	1596.5	1554.5	1517.4	1499.6	1464.2	1448.9	1429.6	1417.4	1405.3	1395.7
17.5°	1561.8	1521.7	1488.8	1446.3	1412.5	1384.2	1364.1	1352.5	1334.2	1317.2	1304.7
20°	1519.8	1477.1	1442.5	1397.2	1360.2	1325.5	1308.6	1292.5	1278.8	1264.3	1250.5
22.5°	1477.2	1432.6	1390.2	1346.4	1311.8	1275.3	1258.9	1237.0	1224.0	1215.9	1202.1
25°	1410.2	1361.8	1313.4	1271.5	1236.1	1203.8	1182.0	1165.1	1150.5	1144.1	1135.3
27.5°	1337.3	1289.3	1242.5	1194.9	1154.6	1131.3	1113.8	1101.1	1092.7	1084.1	1080.2
30°	1290.9	1240.9	1190.9	1146.5	1109.4	1086.1	1070.0	1061.1	1054.6	1050.6	1046.5
32.5°	1243.7	1194.5	1141.9	1101.4	1068.1	1047.3	1035.1	1026.2	1023.0	1021.6	1020.2
35°	1168.3	1118.3	1070.0	1033.7	1002.2	994.1	983.7	978.9	977.2	982.9	985.3
37.5°	1095.3	1048.8	1004.3	969.2	948.6	936.8	933.2	933.3	939.2	944.1	950.0
40°	1048.1	1003.0	961.1	930.5	911.1	903.8	902.2	906.3	912.7	918.4	924.8
42.5°	1002.4	957.9	919.8	891.1	877.6	870.9	871.9	876.0	884.9	891.9	901.6
45°	931.3	894.1	857.1	833.7	822.4	824.0	824.0	831.3	840.1	850.6	861.1
47.5°	864.3	827.0	796.5	776.8	770.9	769.5	774.1	783.6	796.3	809.2	823.8
50°	819.2	783.8	757.1	739.3	733.0	735.4	741.7	750.6	766.0	782.1	797.4
52.5°	773.4	741.1	716.5	700.0	695.5	699.8	706.3	720.3	733.8	751.1	769.7
55°	702.3	674.9	655.5	643.4	641.8	644.2	651.5	666.8	686.1	707.9	725.7
57.5°	631.5	608.5	590.9	582.5	583.3	585.5	597.4	615.7	636.3	659.5	682.5
60°	583.7	562.8	548.3	541.8	542.6	547.4	562.0	579.0	604.7	627.3	651.5
62.5°	538.6	520.2	506.3	500.6	499.4	510.1	523.9	541.5	567.3	592.5	618.5
65°	466.1	451.5	440.2	437.0	439.4	447.5	465.2	488.6	510.4	536.9	564.4
67.5°	395.1	383.1	375.4	376.9	379.8	391.7	406.6	426.7	451.4	479.0	506.0
70°	349.9	338.6	332.1	333.0	337.8	352.3	365.3	385.4	412.0	440.2	462.8
72.5°	303.5	296.1	290.2	293.7	298.5	308.5	324.6	344.8	368.2	394.5	418.3
75°	233.0	233.0	229.7	232.2	239.4	249.1	261.3	282.2	305.6	326.6	345.9
77.5°	172.9	171.1	173.2	176.1	180.3	191.8	205.6	220.6	238.2	259.1	275.1
80°	132.2	133.0	137.0	141.9	143.5	152.4	166.9	180.6	194.3	212.1	227.4
82.5°	99.4	100.2	102.2	108.4	110.0	119.5	128.9	142.6	155.0	166.9	179.7
85°	54.0	54.0	58.1	60.5	64.5	71.0	76.5	84.6	95.9	104.0	116.1
87.5°	24.0	24.5	27.6	29.4	31.7	35.4	37.1	44.5	47.5	51.0	57.1
90°	16.8	19.5	21.8	24.1	26.5	28.8	30.6	32.3	34.0	35.7	37.0
92.5°	42.7	45.3	47.0	48.6	50.2	51.9	52.9	53.9	55.0	56.0	56.8
95°	89.1	91.4	93.4	95.4	97.5	99.6	100.4	101.3	102.2	103.0	103.5
97.5°	145.6	147.8	150.3	152.7	155.0	157.4	158.4	159.6	160.6	161.6	162.2
100°	188.0	189.9	192.5	195.1	197.7	200.4	201.0	201.6	202.2	202.7	203.0
102.5°	233.4	234.8	237.2	239.6	242.0	244.4	245.2	246.0	246.8	247.6	248.1
105°	306.3	307.0	308.2	309.4	310.5	311.7	312.6	313.5	314.4	315.2	316.1
107.5°	383.8	384.1	384.3	384.5	384.7	384.8	385.6	386.4	387.2	388.1	388.4
110°	437.2	437.3	437.0	436.7	436.5	436.2	435.6	434.9	434.3	433.8	433.9



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CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	489.8	489.6	489.1	488.5	488.0	487.5	487.4	487.3	487.2	487.0	487.1
115°	571.0	570.8	570.2	569.6	569.0	568.4	568.2	567.8	567.5	567.2	566.9
117.5°	648.9	648.8	648.4	648.0	647.6	647.2	646.2	645.3	644.3	643.3	642.5
120°	704.0	704.2	703.3	702.5	701.6	700.6	699.2	697.8	696.3	694.9	694.4
122.5°	754.7	754.7	754.3	753.9	753.5	753.1	752.0	751.0	750.1	749.1	748.1
125°	831.6	831.5	831.2	830.9	830.6	830.3	829.7	829.2	828.6	828.0	827.4
127.5°	906.7	906.9	906.4	905.9	905.4	904.9	904.4	903.8	903.2	902.6	902.1
130°	956.9	957.4	957.4	957.4	957.4	957.4	956.7	956.2	955.6	955.0	954.2
132.5°	1007.3	1007.5	1007.3	1007.0	1006.8	1006.6	1006.0	1005.4	1004.9	1004.3	1003.8
135°	1079.6	1080.5	1080.5	1080.5	1080.5	1080.5	1079.9	1079.3	1078.7	1078.1	1077.4
137.5°	1149.7	1150.4	1150.8	1151.3	1151.8	1152.3	1151.4	1150.7	1150.0	1149.2	1148.9
140°	1198.1	1198.3	1198.3	1198.3	1198.3	1198.3	1198.1	1197.8	1197.5	1197.2	1196.9
142.5°	1243.1	1243.2	1243.0	1242.8	1242.6	1242.3	1242.3	1242.2	1242.2	1242.1	1242.0
145°	1307.8	1308.5	1308.8	1309.1	1309.4	1309.7	1309.4	1309.1	1308.8	1308.5	1308.0
147.5°	1370.5	1371.1	1370.9	1370.7	1370.4	1370.2	1370.0	1369.7	1369.5	1369.3	1369.0
150°	1407.3	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.8
152.5°	1441.1	1441.6	1441.8	1442.0	1442.3	1442.5	1443.2	1443.9	1444.6	1445.3	1445.2
155°	1493.0	1492.9	1492.6	1492.3	1492.0	1491.8	1492.9	1494.1	1495.2	1496.4	1496.4
157.5°	1537.0	1536.7	1536.7	1536.6	1536.6	1536.5	1537.4	1538.2	1539.1	1540.0	1539.9
160°	1565.2	1564.9	1564.6	1564.4	1564.1	1563.8	1564.6	1565.5	1566.4	1567.2	1566.9
162.5°	1588.5	1588.0	1587.7	1587.4	1587.1	1586.8	1588.4	1589.9	1591.5	1593.1	1593.2
165°	1621.8	1621.1	1620.5	1619.9	1619.3	1618.7	1620.5	1622.2	1624.0	1625.8	1626.1
167.5°	1646.4	1645.8	1645.9	1645.9	1646.0	1646.0	1647.8	1649.5	1651.2	1652.9	1652.9
170°	1660.1	1659.5	1659.8	1660.1	1660.4	1660.6	1662.4	1664.2	1665.9	1667.7	1667.5
172.5°	1671.5	1670.9	1671.0	1671.0	1671.1	1671.1	1673.1	1675.1	1677.1	1679.1	1679.0
175°	1685.0	1684.1	1683.8	1683.5	1683.2	1682.9	1685.0	1687.0	1689.0	1691.1	1691.1
177.5°	1690.8	1690.3	1690.3	1690.3	1690.3	1690.3	1691.9	1693.5	1695.2	1696.8	1696.7
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



TEST NUMBER: P332854-840

CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1854.8	1853.5	1849.0	1848.4	1849.0	1853.5	1854.8	1856.0	1858.1	1864.4	1856.7
5°	1713.3	1709.3	1706.9	1715.8	1706.9	1709.3	1713.3	1718.2	1726.3	1727.1	1735.2
7.5°	1606.8	1603.6	1596.5	1594.2	1596.5	1603.6	1606.8	1609.6	1617.7	1624.7	1636.6
10°	1538.4	1535.2	1528.7	1527.1	1528.7	1535.2	1538.4	1546.5	1554.5	1563.4	1571.5
12.5°	1472.6	1466.1	1464.9	1466.5	1464.9	1466.1	1472.6	1483.3	1504.2	1504.1	1505.7
15°	1385.2	1382.0	1373.1	1375.5	1373.1	1382.0	1385.2	1395.7	1405.3	1417.4	1429.6
17.5°	1299.1	1295.3	1284.4	1293.9	1284.4	1295.3	1299.1	1304.7	1317.2	1334.2	1352.5
20°	1244.9	1238.5	1232.8	1232.0	1232.8	1238.5	1244.9	1250.5	1264.3	1278.8	1292.5
22.5°	1193.3	1187.5	1187.0	1181.7	1187.0	1187.5	1193.3	1202.1	1215.9	1224.0	1237.0
25°	1128.8	1123.2	1121.6	1117.5	1121.6	1123.2	1128.8	1135.3	1144.1	1150.5	1165.1
27.5°	1079.3	1076.5	1073.7	1074.9	1073.7	1076.5	1079.3	1080.2	1084.1	1092.7	1101.1
30°	1048.9	1048.1	1046.5	1046.5	1046.5	1048.1	1048.9	1046.5	1050.6	1054.6	1061.1
32.5°	1023.8	1023.7	1024.6	1024.6	1024.6	1023.7	1023.8	1020.2	1021.6	1023.0	1026.2
35°	988.6	990.9	992.5	990.1	992.5	990.9	988.6	985.3	982.9	977.2	978.9
37.5°	956.5	959.0	961.3	964.0	961.3	959.0	956.5	950.0	944.1	939.2	933.3
40°	932.1	937.8	939.3	943.3	939.3	937.8	932.1	924.8	918.4	912.7	906.3
42.5°	908.9	915.1	919.3	920.1	919.3	915.1	908.9	901.6	891.9	884.9	876.0
45°	873.2	879.7	885.3	885.3	885.3	879.7	873.2	861.1	850.6	840.1	831.3
47.5°	836.3	845.7	851.3	852.7	851.3	845.7	836.3	823.8	809.2	796.3	783.6
50°	811.1	822.4	828.1	832.1	828.1	822.4	811.1	797.4	782.1	766.0	750.6
52.5°	786.6	797.9	805.5	807.6	805.5	797.9	786.6	769.7	751.1	733.8	720.3
55°	744.2	760.3	769.2	772.4	769.2	760.3	744.2	725.7	707.9	686.1	666.8
57.5°	704.2	719.0	729.3	731.7	729.3	719.0	704.2	682.5	659.5	636.3	615.7
60°	673.3	689.3	702.3	704.7	702.3	689.3	673.3	651.5	627.3	604.7	579.0
62.5°	641.7	658.4	670.0	676.3	670.0	658.4	641.7	618.5	592.5	567.3	541.5
65°	586.9	603.9	615.2	617.6	615.2	603.9	586.9	564.4	536.9	510.4	488.6
67.5°	527.4	544.2	551.7	556.3	551.7	544.2	527.4	506.0	479.0	451.4	426.7
70°	485.3	499.1	507.2	511.2	507.2	499.1	485.3	462.8	440.2	412.0	385.4
72.5°	437.7	452.0	461.4	462.1	461.4	452.0	437.7	418.3	394.5	368.2	344.8
75°	364.5	377.4	382.1	382.1	382.1	377.4	364.5	345.9	326.6	305.6	282.2
77.5°	288.5	295.1	301.2	302.6	301.2	295.1	288.5	275.1	259.1	238.2	220.6
80°	239.4	243.5	248.3	248.3	248.3	243.5	239.4	227.4	212.1	194.3	180.6
82.5°	189.1	192.6	197.4	196.7	197.4	192.6	189.1	179.7	166.9	155.0	142.6
85°	114.5	121.8	121.0	119.4	121.0	121.8	114.5	116.1	104.0	95.9	84.6
87.5°	59.1	59.9	61.9	63.3	61.9	59.9	59.1	57.1	51.0	47.5	44.5
90°	37.6	38.2	38.7	39.3	38.7	38.2	37.6	37.0	35.7	34.0	32.3
92.5°	57.1	57.5	57.8	58.2	57.8	57.5	57.1	56.8	56.0	55.0	53.9
95°	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.0	102.2	101.3
97.5°	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	161.6	160.6	159.6
100°	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	202.7	202.2	201.6
102.5°	248.4	248.6	248.8	249.1	248.8	248.6	248.4	248.1	247.6	246.8	246.0
105°	316.9	317.8	318.7	319.5	318.7	317.8	316.9	316.1	315.2	314.4	313.5
107.5°	388.4	388.3	388.3	388.2	388.3	388.3	388.4	388.4	388.1	387.2	386.4
110°	434.8	435.7	436.6	437.5	436.6	435.7	434.8	433.9	433.8	434.3	434.9



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CATALOG NUMBER: S124DIW-S1195D1340U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	487.2	487.4	487.6	487.8	487.6	487.4	487.2	487.1	487.0	487.2	487.3
115°	566.6	566.3	566.0	565.8	566.0	566.3	566.6	566.9	567.2	567.5	567.8
117.5°	641.9	641.4	640.8	640.2	640.8	641.4	641.9	642.5	643.3	644.3	645.3
120°	695.0	695.6	696.2	696.7	696.2	695.6	695.0	694.4	694.9	696.3	697.8
122.5°	747.0	746.0	745.0	743.9	745.0	746.0	747.0	748.1	749.1	750.1	751.0
125°	826.9	826.3	825.7	825.1	825.7	826.3	826.9	827.4	828.0	828.6	829.2
127.5°	901.7	901.2	900.7	900.3	900.7	901.2	901.7	902.1	902.6	903.2	903.8
130°	953.0	951.8	950.7	949.5	950.7	951.8	953.0	954.2	955.0	955.6	956.2
132.5°	1003.3	1002.8	1002.4	1001.9	1002.4	1002.8	1003.3	1003.8	1004.3	1004.9	1005.4
135°	1076.5	1075.7	1074.8	1073.9	1074.8	1075.7	1076.5	1077.4	1078.1	1078.7	1079.3
137.5°	1149.1	1149.3	1149.4	1149.6	1149.4	1149.3	1149.1	1148.9	1149.2	1150.0	1150.7
140°	1196.6	1196.3	1196.0	1195.8	1196.0	1196.3	1196.6	1196.9	1197.2	1197.5	1197.8
142.5°	1242.0	1241.9	1241.9	1241.8	1241.9	1241.9	1242.0	1242.0	1242.1	1242.2	1242.2
145°	1307.1	1306.2	1305.4	1304.4	1305.4	1306.2	1307.1	1308.0	1308.5	1308.8	1309.1
147.5°	1368.7	1368.4	1368.2	1367.9	1368.2	1368.4	1368.7	1369.0	1369.3	1369.5	1369.7
150°	1407.4	1407.1	1406.8	1406.6	1406.8	1407.1	1407.4	1407.8	1407.9	1407.9	1407.9
152.5°	1444.5	1443.7	1443.0	1442.2	1443.0	1443.7	1444.5	1445.2	1445.3	1444.6	1443.9
155°	1495.2	1494.1	1492.9	1491.8	1492.9	1494.1	1495.2	1496.4	1496.4	1495.2	1494.1
157.5°	1538.9	1537.9	1537.0	1536.0	1537.0	1537.9	1538.9	1539.9	1540.0	1539.1	1538.2
160°	1565.5	1564.1	1562.6	1561.2	1562.6	1564.1	1565.5	1566.9	1567.2	1566.4	1565.5
162.5°	1591.6	1590.2	1588.8	1587.3	1588.8	1590.2	1591.6	1593.2	1593.1	1591.5	1589.9
165°	1624.9	1623.7	1622.6	1621.3	1622.6	1623.7	1624.9	1626.1	1625.8	1624.0	1622.2
167.5°	1651.1	1649.3	1647.6	1645.8	1647.6	1649.3	1651.1	1652.9	1652.9	1651.2	1649.5
170°	1665.5	1663.4	1661.4	1659.4	1661.4	1663.4	1665.5	1667.5	1667.7	1665.9	1664.2
172.5°	1677.0	1675.0	1672.9	1670.9	1672.9	1675.0	1677.0	1679.0	1679.1	1677.1	1675.1
175°	1689.0	1687.0	1685.0	1682.9	1685.0	1687.0	1689.0	1691.1	1691.1	1689.0	1687.0
177.5°	1694.9	1692.9	1691.1	1689.2	1691.1	1692.9	1694.9	1696.7	1696.8	1695.2	1693.5
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1860.6	1863.2	1873.5	1883.2	1894.8	1903.2	1908.9	1915.4	1928.9	1940.0	1950.3
5°	1743.2	1747.3	1768.2	1782.7	1807.7	1829.5	1846.4	1864.9	1886.7	1916.5	1944.0
7.5°	1639.8	1654.9	1677.7	1701.2	1726.8	1755.2	1780.1	1808.1	1845.6	1886.5	1928.8
10°	1581.1	1598.1	1622.2	1649.7	1673.9	1706.9	1737.6	1770.6	1813.3	1863.3	1913.3
12.5°	1522.5	1550.3	1568.7	1601.2	1627.4	1654.7	1687.3	1730.6	1780.5	1833.0	1893.3
15°	1448.9	1464.2	1499.6	1517.4	1554.5	1596.5	1628.7	1672.2	1720.6	1790.0	1857.6
17.5°	1364.1	1384.2	1412.5	1446.3	1488.8	1521.7	1561.8	1606.6	1667.6	1736.5	1821.3
20°	1308.6	1325.5	1360.2	1397.2	1442.5	1477.1	1519.8	1563.4	1626.3	1699.7	1788.4
22.5°	1258.9	1275.3	1311.8	1346.4	1390.2	1432.6	1477.2	1527.9	1588.2	1665.5	1756.1
25°	1182.0	1203.8	1236.1	1271.5	1313.4	1361.8	1410.2	1455.3	1519.8	1601.2	1698.1
27.5°	1113.8	1131.3	1154.6	1194.9	1242.5	1289.3	1337.3	1394.1	1456.0	1542.1	1642.5
30°	1070.0	1086.1	1109.4	1146.5	1190.9	1240.9	1290.9	1345.6	1410.2	1495.7	1598.1
32.5°	1035.1	1047.3	1068.1	1101.4	1141.9	1194.5	1243.7	1300.5	1368.3	1452.5	1552.3
35°	983.7	994.1	1002.2	1033.7	1070.0	1118.3	1168.3	1228.8	1294.1	1373.9	1473.9
37.5°	933.2	936.8	948.6	969.2	1004.3	1048.8	1095.3	1154.8	1221.7	1302.8	1392.9
40°	902.2	903.8	911.1	930.5	961.1	1003.0	1048.1	1107.0	1170.7	1247.3	1336.9
42.5°	871.9	870.9	877.6	891.1	919.8	957.9	1002.4	1056.1	1119.7	1190.5	1274.9
45°	824.0	824.0	822.4	833.7	857.1	894.1	931.3	982.9	1036.1	1105.4	1176.4
47.5°	774.1	769.5	770.9	776.8	796.5	827.0	864.3	906.6	953.5	1012.2	1074.5
50°	741.7	735.4	733.0	739.3	757.1	783.8	819.2	856.3	900.6	952.2	1005.4
52.5°	706.3	699.8	695.5	700.0	716.5	741.1	773.4	806.0	845.8	887.8	933.8
55°	651.5	644.2	641.8	643.4	655.5	674.9	702.3	732.2	761.9	796.6	828.9
57.5°	597.4	585.5	583.3	582.5	590.9	608.5	631.5	657.3	679.0	700.0	734.4
60°	562.0	547.4	542.6	541.8	548.3	562.8	583.7	609.6	624.9	639.3	669.2
62.5°	523.9	510.1	499.4	500.6	506.3	520.2	538.6	557.3	567.4	583.3	603.4
65°	465.2	447.5	439.4	437.0	440.2	451.5	466.1	478.2	489.4	495.8	515.2
67.5°	406.6	391.7	379.8	376.9	375.4	383.1	395.1	402.3	410.4	416.1	427.5
70°	365.3	352.3	337.8	333.0	332.1	338.6	349.9	350.7	362.0	364.5	376.6
72.5°	324.6	308.5	298.5	293.7	290.2	296.1	303.5	305.6	311.7	316.1	322.3
75°	261.3	249.1	239.4	232.2	229.7	233.0	233.0	237.0	241.1	243.5	250.7
77.5°	205.6	191.8	180.3	176.1	173.2	171.1	172.9	175.3	173.4	177.5	179.2
80°	166.9	152.4	143.5	141.9	137.0	133.0	132.2	134.6	131.4	133.0	137.8
82.5°	128.9	119.5	110.0	108.4	102.2	100.2	99.4	97.9	97.9	97.6	98.6
85°	76.5	71.0	64.5	60.5	58.1	54.0	54.0	52.4	50.8	49.2	50.0
87.5°	37.1	35.4	31.7	29.4	27.6	24.5	24.0	21.4	20.1	18.9	17.6
90°	30.6	28.8	26.5	24.1	21.8	19.5	16.8	13.5	10.3	7.2	3.9
92.5°	52.9	51.9	50.2	48.6	47.0	45.3	42.7	39.0	35.3	31.7	28.1
95°	100.4	99.6	97.5	95.4	93.4	91.4	89.1	86.4	83.8	81.2	78.6
97.5°	158.4	157.4	155.0	152.7	150.3	147.8	145.6	143.5	141.5	139.4	137.2
100°	201.0	200.4	197.7	195.1	192.5	189.9	188.0	186.8	185.7	184.5	183.4
102.5°	245.2	244.4	242.0	239.6	237.2	234.8	233.4	233.0	232.5	232.1	231.6
105°	312.6	311.7	310.5	309.4	308.2	307.0	306.3	306.0	305.8	305.5	305.2
107.5°	385.6	384.8	384.7	384.5	384.3	384.1	383.8	383.4	383.1	382.7	382.4
110°	435.6	436.2	436.5	436.7	437.0	437.3	437.2	436.6	436.0	435.4	434.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	487.4	487.5	488.0	488.5	489.1	489.6	489.8	489.7	489.5	489.4	489.3
115°	568.2	568.4	569.0	569.6	570.2	570.8	571.0	571.0	571.0	571.0	571.0
117.5°	646.2	647.2	647.6	648.0	648.4	648.8	648.9	648.7	648.5	648.2	648.0
120°	699.2	700.6	701.6	702.5	703.3	704.2	704.0	702.9	701.7	700.5	699.3
122.5°	752.0	753.1	753.5	753.9	754.3	754.7	754.7	754.2	753.8	753.3	752.8
125°	829.7	830.3	830.6	830.9	831.2	831.5	831.6	831.6	831.6	831.6	831.6
127.5°	904.4	904.9	905.4	905.9	906.4	906.9	906.7	905.7	904.9	904.0	903.1
130°	956.7	957.4	957.4	957.4	957.4	957.4	956.9	956.0	955.2	954.3	953.4
132.5°	1006.0	1006.6	1006.8	1007.0	1007.3	1007.5	1007.3	1006.7	1006.0	1005.4	1004.8
135°	1079.9	1080.5	1080.5	1080.5	1080.5	1080.5	1079.6	1077.8	1076.1	1074.4	1072.6
137.5°	1151.4	1152.3	1151.8	1151.3	1150.8	1150.4	1149.7	1148.9	1148.1	1147.3	1146.5
140°	1198.1	1198.3	1198.3	1198.3	1198.3	1198.3	1198.1	1197.5	1196.9	1196.3	1195.8
142.5°	1242.3	1242.3	1242.6	1242.8	1243.0	1243.2	1243.1	1242.5	1241.9	1241.3	1240.8
145°	1309.4	1309.7	1309.4	1309.1	1308.8	1308.5	1307.8	1306.7	1305.5	1304.3	1303.1
147.5°	1370.0	1370.2	1370.4	1370.7	1370.9	1371.1	1370.5	1369.2	1367.8	1366.3	1364.9
150°	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.3	1406.1	1405.0	1403.8	1402.7
152.5°	1443.2	1442.5	1442.3	1442.0	1441.8	1441.6	1441.1	1440.4	1439.7	1439.0	1438.2
155°	1492.9	1491.8	1492.0	1492.3	1492.6	1492.9	1493.0	1493.0	1493.0	1493.0	1493.0
157.5°	1537.4	1536.5	1536.6	1536.6	1536.7	1536.7	1537.0	1537.5	1538.1	1538.6	1539.1
160°	1564.6	1563.8	1564.1	1564.4	1564.6	1564.9	1565.2	1565.5	1565.8	1566.1	1566.4
162.5°	1588.4	1586.8	1587.1	1587.4	1587.7	1588.0	1588.5	1589.2	1590.0	1590.7	1591.5
165°	1620.5	1618.7	1619.3	1619.9	1620.5	1621.1	1621.8	1622.7	1623.6	1624.5	1625.3
167.5°	1647.8	1646.0	1646.0	1645.9	1645.9	1645.8	1646.4	1647.6	1648.8	1650.0	1651.2
170°	1662.4	1660.6	1660.4	1660.1	1659.8	1659.5	1660.1	1661.5	1663.0	1664.5	1665.9
172.5°	1673.1	1671.1	1671.1	1671.0	1671.0	1670.9	1671.5	1672.7	1674.0	1675.2	1676.4
175°	1685.0	1682.9	1683.2	1683.5	1683.8	1684.1	1685.0	1686.5	1687.9	1689.3	1690.8
177.5°	1691.9	1690.3	1690.3	1690.3	1690.3	1690.3	1690.8	1692.0	1693.1	1694.4	1695.5
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1959.2	1965.7	1974.1	1988.3	1993.5	1999.9	2008.9	2008.3	2010.8	2020.5	2041.2
5°	1966.5	1991.6	2015.7	2044.8	2075.4	2095.6	2122.9	2139.9	2156.9	2178.6	2215.6
7.5°	1969.4	2009.1	2053.5	2104.5	2149.7	2202.0	2242.8	2281.2	2315.8	2361.8	2406.0
10°	1964.9	2018.1	2075.4	2139.9	2208.4	2266.4	2318.9	2378.5	2429.3	2485.0	2535.0
12.5°	1956.5	2020.7	2097.3	2169.6	2249.7	2335.5	2400.9	2461.1	2528.7	2592.7	2669.8
15°	1937.5	2025.4	2114.9	2210.0	2317.2	2416.4	2510.8	2589.0	2661.6	2757.5	2858.3
17.5°	1913.3	2008.1	2121.0	2236.1	2348.2	2461.6	2578.4	2695.9	2787.5	2906.7	2985.6
20°	1890.8	2000.4	2116.5	2253.6	2365.6	2506.8	2622.8	2736.5	2862.4	2980.8	3075.1
22.5°	1859.2	1979.1	2102.3	2238.8	2386.3	2527.4	2661.6	2784.9	2910.7	3039.6	3153.9
25°	1819.0	1927.8	2073.8	2228.6	2375.3	2528.5	2682.5	2837.3	2972.7	3109.1	3215.5
27.5°	1750.6	1888.0	2024.0	2183.7	2346.8	2520.1	2684.8	2846.8	2988.8	3100.8	3166.7
30°	1715.8	1835.1	1982.7	2143.1	2319.7	2506.0	2677.7	2836.5	2968.8	3058.3	3084.8
32.5°	1664.2	1787.4	1931.7	2098.0	2284.8	2476.3	2655.1	2804.9	2915.2	2962.1	2930.0
35°	1587.6	1698.9	1844.8	2014.9	2209.2	2413.2	2589.8	2716.3	2772.8	2728.5	2618.0
37.5°	1495.7	1606.0	1752.5	1919.7	2120.7	2328.0	2487.7	2578.8	2560.1	2449.8	2285.2
40°	1431.2	1534.4	1673.9	1854.4	2050.4	2258.5	2398.7	2447.9	2396.3	2238.3	2063.3
42.5°	1359.6	1460.2	1600.3	1774.4	1982.1	2173.9	2296.1	2300.2	2213.7	2024.8	1849.2
45°	1250.5	1346.5	1478.7	1660.1	1852.1	2032.7	2113.2	2073.8	1914.1	1731.9	1555.3
47.5°	1143.0	1226.2	1356.5	1528.7	1710.9	1863.0	1903.0	1831.9	1661.7	1484.9	1321.2
50°	1064.3	1148.1	1270.7	1435.2	1610.9	1742.4	1761.7	1667.4	1500.5	1322.3	1194.1
52.5°	988.9	1072.1	1190.1	1342.3	1503.3	1621.7	1622.4	1513.3	1347.0	1188.1	1068.9
55°	878.1	953.0	1059.4	1195.7	1339.3	1432.0	1409.4	1296.5	1152.2	1014.3	910.3
57.5°	771.3	836.6	934.6	1048.3	1174.8	1251.2	1213.8	1105.1	976.2	859.3	780.5
60°	702.3	764.4	848.2	955.4	1061.9	1121.6	1086.1	987.7	869.2	774.9	706.3
62.5°	635.2	687.6	768.2	861.3	960.0	1004.1	972.5	875.5	773.1	687.7	632.2
65°	540.2	583.0	647.4	727.3	799.0	837.0	810.3	720.0	641.8	580.6	536.1
67.5°	451.5	484.9	533.7	597.7	658.7	679.2	655.0	592.2	525.8	476.9	445.6
70°	390.2	421.7	462.8	512.0	565.2	586.9	562.8	512.8	458.8	413.6	382.9
72.5°	336.7	361.0	395.8	437.8	479.4	501.2	484.7	436.7	391.0	357.5	331.3
75°	256.4	277.4	301.5	331.3	363.7	378.2	363.7	330.5	299.1	274.2	255.6
77.5°	186.4	197.7	216.4	238.6	258.8	269.9	257.4	235.0	215.8	198.6	189.5
80°	141.9	150.0	162.9	180.6	194.3	204.8	196.7	178.1	162.9	151.6	147.5
82.5°	103.2	108.7	117.0	130.3	139.5	144.8	141.3	127.8	121.6	111.6	107.6
85°	50.8	54.0	59.7	63.7	71.8	72.6	73.4	67.8	62.1	59.7	56.5
87.5°	18.9	20.1	22.7	25.2	28.4	29.5	29.4	29.8	27.7	27.4	25.1
90°	7.2	10.3	13.5	16.8	19.5	21.8	24.1	26.5	28.8	30.6	32.3
92.5°	31.7	35.3	39.0	42.7	45.3	47.0	48.6	50.2	51.9	52.9	53.9
95°	81.2	83.8	86.4	89.1	91.4	93.4	95.4	97.5	99.6	100.4	101.3
97.5°	139.4	141.5	143.5	145.6	147.8	150.3	152.7	155.0	157.4	158.4	159.6
100°	184.5	185.7	186.8	188.0	189.9	192.5	195.1	197.7	200.4	201.0	201.6
102.5°	232.1	232.5	233.0	233.4	234.8	237.2	239.6	242.0	244.4	245.2	246.0
105°	305.5	305.8	306.0	306.3	307.0	308.2	309.4	310.5	311.7	312.6	313.5
107.5°	382.7	383.1	383.4	383.8	384.1	384.3	384.5	384.7	384.8	385.6	386.4
110°	435.4	436.0	436.6	437.2	437.3	437.0	436.7	436.5	436.2	435.6	434.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	489.4	489.5	489.7	489.8	489.6	489.1	488.5	488.0	487.5	487.4	487.3
115°	571.0	571.0	571.0	571.0	570.8	570.2	569.6	569.0	568.4	568.2	567.8
117.5°	648.2	648.5	648.7	648.9	648.8	648.4	648.0	647.6	647.2	646.2	645.3
120°	700.5	701.7	702.9	704.0	704.2	703.3	702.5	701.6	700.6	699.2	697.8
122.5°	753.3	753.8	754.2	754.7	754.7	754.3	753.9	753.5	753.1	752.0	751.0
125°	831.6	831.6	831.6	831.6	831.5	831.2	830.9	830.6	830.3	829.7	829.2
127.5°	904.0	904.9	905.7	906.7	906.9	906.4	905.9	905.4	904.9	904.4	903.8
130°	954.3	955.2	956.0	956.9	957.4	957.4	957.4	957.4	957.4	956.7	956.2
132.5°	1005.4	1006.0	1006.7	1007.3	1007.5	1007.3	1007.0	1006.8	1006.6	1006.0	1005.4
135°	1074.4	1076.1	1077.8	1079.6	1080.5	1080.5	1080.5	1080.5	1080.5	1079.9	1079.3
137.5°	1147.3	1148.1	1148.9	1149.7	1150.4	1150.8	1151.3	1151.8	1152.3	1151.4	1150.7
140°	1196.3	1196.9	1197.5	1198.1	1198.3	1198.3	1198.3	1198.3	1198.3	1198.1	1197.8
142.5°	1241.3	1241.9	1242.5	1243.1	1243.2	1243.0	1242.8	1242.6	1242.3	1242.3	1242.2
145°	1304.3	1305.5	1306.7	1307.8	1308.5	1308.8	1309.1	1309.4	1309.7	1309.4	1309.1
147.5°	1366.3	1367.8	1369.2	1370.5	1371.1	1370.9	1370.7	1370.4	1370.2	1370.0	1369.7
150°	1403.8	1405.0	1406.1	1407.3	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
152.5°	1439.0	1439.7	1440.4	1441.1	1441.6	1441.8	1442.0	1442.3	1442.5	1443.2	1443.9
155°	1493.0	1493.0	1493.0	1493.0	1492.9	1492.6	1492.3	1492.0	1491.8	1492.9	1494.1
157.5°	1538.6	1538.1	1537.5	1537.0	1536.7	1536.7	1536.6	1536.6	1536.5	1537.4	1538.2
160°	1566.1	1565.8	1565.5	1565.2	1564.9	1564.6	1564.4	1564.1	1563.8	1564.6	1565.5
162.5°	1590.7	1590.0	1589.2	1588.5	1588.0	1587.7	1587.4	1587.1	1586.8	1588.4	1589.9
165°	1624.5	1623.6	1622.7	1621.8	1621.1	1620.5	1619.9	1619.3	1618.7	1620.5	1622.2
167.5°	1650.0	1648.8	1647.6	1646.4	1645.8	1645.9	1645.9	1646.0	1646.0	1647.8	1649.5
170°	1664.5	1663.0	1661.5	1660.1	1659.5	1659.8	1660.1	1660.4	1660.6	1662.4	1664.2
172.5°	1675.2	1674.0	1672.7	1671.5	1670.9	1671.0	1671.0	1671.1	1671.1	1673.1	1675.1
175°	1689.3	1687.9	1686.5	1685.0	1684.1	1683.8	1683.5	1683.2	1682.9	1685.0	1687.0
177.5°	1694.4	1693.1	1692.0	1690.8	1690.3	1690.3	1690.3	1690.3	1690.3	1691.9	1693.5
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2051.5	2052.9	2058.6	2063.2	2064.5	2070.8	2071.5
5°	2231.8	2245.5	2272.1	2274.5	2278.6	2299.6	2283.4
7.5°	2443.1	2477.9	2501.1	2521.6	2529.0	2538.2	2536.3
10°	2578.5	2630.1	2655.9	2697.0	2698.7	2709.2	2702.7
12.5°	2714.6	2774.6	2821.7	2829.2	2863.8	2869.1	2878.1
15°	2907.5	2971.1	3036.5	3059.9	3107.5	3118.8	3136.4
17.5°	3088.8	3153.9	3199.7	3260.1	3279.6	3305.8	3288.0
20°	3188.0	3259.0	3317.1	3364.7	3384.8	3399.3	3397.7
22.5°	3248.0	3319.6	3366.7	3402.7	3421.5	3427.7	3427.4
25°	3285.6	3326.7	3341.2	3355.0	3334.0	3326.7	3329.9
27.5°	3181.2	3170.5	3132.6	3082.9	3031.3	2990.3	2968.1
30°	3037.3	2974.4	2917.2	2817.1	2765.6	2734.9	2707.5
32.5°	2833.5	2733.8	2623.6	2532.0	2473.4	2427.9	2421.2
35°	2484.2	2334.2	2199.6	2087.5	2029.4	1980.2	1968.9
37.5°	2112.0	1956.2	1834.9	1736.3	1673.9	1639.2	1606.8
40°	1864.9	1731.1	1611.7	1527.9	1480.4	1455.3	1435.2
42.5°	1674.7	1552.5	1433.7	1369.9	1326.9	1311.5	1299.7
45°	1411.8	1298.1	1215.9	1167.5	1142.5	1116.7	1104.6
47.5°	1201.3	1108.8	1054.6	1013.5	986.7	971.4	963.7
50°	1082.1	1006.2	957.9	926.5	902.2	890.1	883.7
52.5°	976.2	914.0	873.3	848.4	831.9	823.0	820.5
55°	840.9	793.3	767.6	745.8	733.8	725.7	722.5
57.5°	730.9	694.4	673.4	655.5	650.9	644.1	641.8
60°	658.7	630.6	612.8	600.7	596.6	588.5	590.2
62.5°	594.9	571.8	556.6	549.8	544.4	537.7	539.9
65°	503.1	486.1	478.2	471.7	465.2	461.2	464.4
67.5°	422.1	410.6	399.6	395.9	392.6	392.0	388.6
70°	369.3	359.6	349.9	347.5	347.5	344.3	343.5
72.5°	318.3	311.2	304.8	303.0	300.4	301.7	298.3
75°	245.9	240.2	237.8	235.4	234.6	234.6	232.2
77.5°	181.8	177.5	173.7	173.7	170.8	169.7	169.4
80°	137.8	136.2	133.0	133.0	131.4	132.2	130.6
82.5°	103.7	101.4	100.8	99.5	97.3	97.4	95.8
85°	55.6	53.2	52.4	50.0	48.4	50.0	48.4
87.5°	26.2	25.9	25.4	24.2	23.7	23.8	22.0
90°	34.0	35.7	37.0	37.6	38.2	38.7	39.3
92.5°	55.0	56.0	56.8	57.1	57.5	57.8	58.2
95°	102.2	103.0	103.5	103.5	103.5	103.5	103.5
97.5°	160.6	161.6	162.2	162.2	162.2	162.2	162.2
100°	202.2	202.7	203.0	203.0	203.0	203.0	203.0
102.5°	246.8	247.6	248.1	248.4	248.6	248.8	249.1
105°	314.4	315.2	316.1	316.9	317.8	318.7	319.5
107.5°	387.2	388.1	388.4	388.4	388.3	388.3	388.2
110°	434.3	433.8	433.9	434.8	435.7	436.6	437.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	487.2	487.0	487.1	487.2	487.4	487.6	487.8
115°	567.5	567.2	566.9	566.6	566.3	566.0	565.8
117.5°	644.3	643.3	642.5	641.9	641.4	640.8	640.2
120°	696.3	694.9	694.4	695.0	695.6	696.2	696.7
122.5°	750.1	749.1	748.1	747.0	746.0	745.0	743.9
125°	828.6	828.0	827.4	826.9	826.3	825.7	825.1
127.5°	903.2	902.6	902.1	901.7	901.2	900.7	900.3
130°	955.6	955.0	954.2	953.0	951.8	950.7	949.5
132.5°	1004.9	1004.3	1003.8	1003.3	1002.8	1002.4	1001.9
135°	1078.7	1078.1	1077.4	1076.5	1075.7	1074.8	1073.9
137.5°	1150.0	1149.2	1148.9	1149.1	1149.3	1149.4	1149.6
140°	1197.5	1197.2	1196.9	1196.6	1196.3	1196.0	1195.8
142.5°	1242.2	1242.1	1242.0	1242.0	1241.9	1241.9	1241.8
145°	1308.8	1308.5	1308.0	1307.1	1306.2	1305.4	1304.4
147.5°	1369.5	1369.3	1369.0	1368.7	1368.4	1368.2	1367.9
150°	1407.9	1407.9	1407.8	1407.4	1407.1	1406.8	1406.6
152.5°	1444.6	1445.3	1445.2	1444.5	1443.7	1443.0	1442.2
155°	1495.2	1496.4	1496.4	1495.2	1494.1	1492.9	1491.8
157.5°	1539.1	1540.0	1539.9	1538.9	1537.9	1537.0	1536.0
160°	1566.4	1567.2	1566.9	1565.5	1564.1	1562.6	1561.2
162.5°	1591.5	1593.1	1593.2	1591.6	1590.2	1588.8	1587.3
165°	1624.0	1625.8	1626.1	1624.9	1623.7	1622.6	1621.3
167.5°	1651.2	1652.9	1652.9	1651.1	1649.3	1647.6	1645.8
170°	1665.9	1667.7	1667.5	1665.5	1663.4	1661.4	1659.4
172.5°	1677.1	1679.1	1679.0	1677.0	1675.0	1672.9	1670.9
175°	1689.0	1691.1	1691.1	1689.0	1687.0	1685.0	1682.9
177.5°	1695.2	1696.8	1696.7	1694.9	1692.9	1691.1	1689.2
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4

(END OF REPORT)