

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: P332847-840

Luminaire Tested: **S124DIW-S1195D1050U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332847-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1050U840-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9605.6 lumens
Efficiency: N/A
Efficacy: 142.5 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

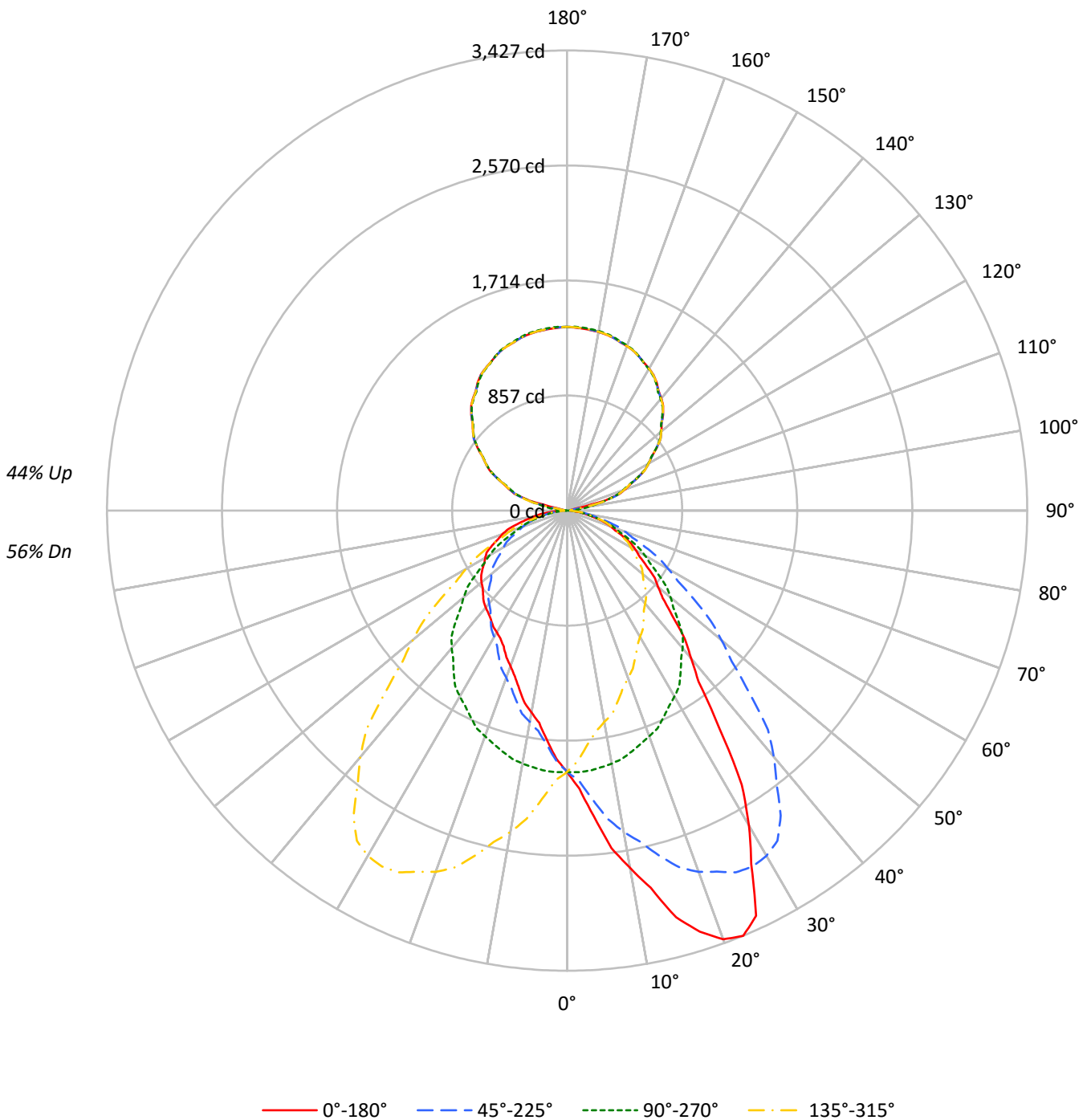
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56																			
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	52	48																			
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40																			
3	83	73	66	60	77	69	62	57	60	55	51	51	47	44	43	41	38	34																			
4	76	65	57	51	70	61	54	49	53	48	43	46	42	38	39	36	33	30																			
5	70	58	50	44	65	55	47	42	48	42	38	41	37	33	35	32	29	26																			
6	64	52	44	38	60	49	42	37	43	37	33	37	33	29	32	28	26	23																			
7	60	47	39	34	55	45	37	32	39	33	29	34	29	26	29	26	23	20																			
8	55	43	35	30	51	41	34	29	36	30	26	31	27	23	27	23	21	18																			
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17																			
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	19	17	15																			

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	2.0
10°-20°	584.5	6.1
20°-30°	926.8	9.6
30°-40°	1031.4	10.7
40°-50°	938.9	9.8
50°-60°	767.2	8.0
60°-70°	547.7	5.7
70°-80°	301.6	3.1
80°-90°	86.3	0.9
90°-100°	46.8	0.5
100°-110°	298.3	3.1
110°-120°	570.7	5.9
120°-130°	724.4	7.5
130°-140°	775.1	8.1
140°-150°	724.8	7.5
150°-160°	584.5	6.1
160°-170°	377.0	3.9
170°-180°	129.9	1.4
0°-30°	1700.9	17.7
0°-40°	2732.3	28.4
0°-60°	4438.4	46.2
0°-90°	5374.1	55.9
90°-120°	915.8	9.5
90°-150°	3140.1	32.7
90°-180°	4232.0	44.1
0°-180°	9605.6	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°	31	3	31	3	31	15
95°	30	56	30	56	30	24
105°	292	308	292	308	292	254
115°	579	575	579	575	579	573
125°	814	808	814	808	814	725
135°	1010	1003	1010	1003	1010	777
145°	1162	1156	1162	1156	1162	726
155°	1267	1268	1267	1268	1267	584
165°	1331	1337	1331	1337	1331	376
175°	1360	1368	1360	1368	1360	129
180°	1368	1368	1368	1368	1368	



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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°	20.3	22.2	22.1	22.6	23.8	24.3	24.6	23.7	26.1	26.5	28.7
90°	30.7	30.2	29.8	29.3	28.9	28.0	26.6	25.2	23.8	22.5	20.7
92.5°	28.3	28.2	28.1	28.0	27.9	27.2	25.8	24.4	23.0	21.7	19.9
95°	29.7	29.5	29.2	29.0	28.8	28.0	26.6	25.2	23.8	22.5	22.3
97.5°	28.7	28.4	28.2	28.0	27.8	27.6	27.5	27.3	27.2	27.0	52.4
100°	28.7	28.4	28.2	28.0	27.8	29.6	33.4	37.3	41.2	45.0	76.4
102.5°	29.5	29.4	29.4	29.3	29.3	50.1	91.8	133.5	175.2	216.9	221.0
105°	291.6	299.8	308.0	316.2	324.4	327.4	325.4	323.4	321.2	319.2	318.1
107.5°	406.4	405.6	404.7	403.8	402.9	402.0	401.0	400.0	399.0	398.0	396.5
110°	456.4	455.7	454.9	454.3	453.6	453.0	452.6	452.1	451.7	451.2	449.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	506.2	505.4	504.5	503.7	502.8	502.4	502.5	502.6	502.7	502.8	502.1
115°	579.2	579.2	579.2	579.2	579.2	578.9	578.5	577.9	577.5	577.0	577.3
117.5°	653.2	653.3	653.4	653.5	653.6	653.7	653.8	653.8	653.9	654.0	653.5
120°	699.8	700.3	700.7	701.3	701.7	701.7	701.3	700.7	700.3	699.8	700.0
122.5°	745.7	746.2	746.6	747.1	747.5	747.6	747.3	747.1	746.8	746.5	746.2
125°	814.5	814.3	814.0	813.7	813.5	813.0	812.4	811.7	811.0	810.3	810.8
127.5°	874.8	874.9	875.1	875.4	875.6	875.7	875.9	876.0	876.2	876.3	875.1
130°	915.7	915.7	915.7	915.7	915.7	915.6	915.4	915.1	914.9	914.7	914.0
132.5°	953.4	953.6	953.7	953.9	954.1	954.1	953.9	953.6	953.4	953.2	952.3
135°	1009.9	1009.5	1009.0	1008.6	1008.0	1007.6	1007.1	1006.7	1006.2	1005.8	1004.9
137.5°	1058.1	1058.3	1058.4	1058.5	1058.7	1058.5	1058.0	1057.5	1057.0	1056.5	1055.5
140°	1091.8	1091.5	1091.3	1091.1	1090.9	1090.4	1089.6	1089.0	1088.3	1087.6	1087.2
142.5°	1119.5	1119.5	1119.4	1119.4	1119.3	1119.1	1118.6	1118.1	1117.6	1117.1	1116.8
145°	1162.4	1161.8	1161.4	1160.9	1160.5	1160.1	1159.9	1159.7	1159.5	1159.2	1159.2
147.5°	1197.7	1197.5	1197.3	1197.1	1196.8	1196.6	1196.4	1196.3	1196.1	1195.9	1196.1
150°	1220.6	1220.4	1220.2	1219.9	1219.7	1219.6	1219.6	1219.6	1219.6	1219.6	1219.8
152.5°	1240.3	1240.4	1240.5	1240.7	1240.8	1240.7	1240.3	1240.0	1239.6	1239.3	1239.7
155°	1266.7	1267.4	1268.1	1268.7	1269.4	1269.3	1268.4	1267.5	1266.6	1265.7	1266.4
157.5°	1288.8	1290.0	1291.1	1292.3	1293.5	1293.5	1292.3	1291.1	1290.0	1288.8	1289.6
160°	1303.5	1304.8	1306.3	1307.6	1309.0	1309.0	1307.6	1306.3	1304.8	1303.5	1303.7
162.5°	1314.9	1316.6	1318.1	1319.6	1321.2	1321.2	1319.9	1318.5	1317.2	1315.8	1316.1
165°	1331.1	1333.2	1335.2	1337.3	1339.3	1339.5	1337.7	1335.8	1334.0	1332.2	1332.2
167.5°	1343.2	1345.5	1347.8	1350.1	1352.3	1352.4	1350.5	1348.5	1346.5	1344.4	1344.6
170°	1350.6	1352.8	1355.1	1357.4	1359.7	1359.9	1358.1	1356.2	1354.4	1352.6	1352.4
172.5°	1354.6	1357.2	1359.6	1362.0	1364.5	1364.8	1363.0	1361.2	1359.4	1357.6	1357.4
175°	1359.8	1362.5	1365.2	1368.0	1370.7	1371.1	1369.0	1367.0	1364.9	1362.9	1362.6
177.5°	1363.1	1365.2	1367.5	1369.6	1371.8	1372.2	1370.7	1369.3	1367.8	1366.3	1365.9
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



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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°	28.3	28.6	27.6	24.5	22.1	19.7	18.5	17.4	18.5	19.7	20.8
90°	18.9	17.1	15.2	13.0	10.6	8.1	5.6	3.0	5.6	8.1	10.6
92.5°	18.1	16.3	14.4	13.4	13.3	13.1	13.0	12.9	13.0	13.1	13.3
95°	22.0	21.8	21.6	25.3	33.1	40.8	48.6	56.2	48.6	40.8	33.1
97.5°	77.8	103.1	128.6	138.8	134.0	129.2	124.3	119.5	124.3	129.2	134.0
100°	107.8	139.2	170.6	184.2	180.1	176.0	171.9	167.8	171.9	176.0	180.1
102.5°	225.1	229.2	233.3	233.8	230.9	227.8	224.8	221.9	224.8	227.8	230.9
105°	317.0	315.8	314.7	313.5	312.0	310.7	309.3	308.0	309.3	310.7	312.0
107.5°	395.0	393.3	391.8	390.7	390.0	389.3	388.7	388.0	388.7	389.3	390.0
110°	448.5	447.2	445.8	444.7	444.0	443.3	442.7	442.0	442.7	443.3	444.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	501.5	500.9	500.3	499.3	498.1	496.9	495.6	494.4	495.6	496.9	498.1
115°	577.5	577.7	577.9	577.7	577.0	576.4	575.7	575.0	575.7	576.4	577.0
117.5°	653.0	652.5	652.0	651.3	650.4	649.4	648.5	647.6	648.5	649.4	650.4
120°	700.3	700.5	700.7	700.4	699.5	698.6	697.7	696.8	697.7	698.6	699.5
122.5°	745.9	745.6	745.3	744.8	744.3	743.7	743.2	742.7	743.2	743.7	744.3
125°	811.2	811.7	812.1	811.9	811.0	810.1	809.2	808.3	809.2	810.1	811.0
127.5°	874.1	873.1	872.0	871.4	871.2	871.0	870.7	870.5	870.7	871.0	871.2
130°	913.3	912.7	912.0	911.5	911.3	911.1	910.9	910.6	910.9	911.1	911.3
132.5°	951.5	950.6	949.8	949.1	948.7	948.3	947.9	947.5	947.9	948.3	948.7
135°	1004.0	1003.1	1002.2	1001.8	1002.0	1002.3	1002.5	1002.7	1002.5	1002.3	1002.0
137.5°	1054.5	1053.5	1052.5	1052.0	1051.9	1051.8	1051.7	1051.6	1051.7	1051.8	1051.9
140°	1086.7	1086.3	1085.8	1085.4	1084.9	1084.5	1084.0	1083.6	1084.0	1084.5	1084.9
142.5°	1116.5	1116.3	1116.0	1115.5	1114.7	1113.8	1113.0	1112.2	1113.0	1113.8	1114.7
145°	1159.2	1159.2	1159.2	1158.9	1158.2	1157.5	1156.9	1156.2	1156.9	1157.5	1158.2
147.5°	1196.4	1196.6	1196.8	1196.3	1195.0	1193.8	1192.4	1191.1	1192.4	1193.8	1195.0
150°	1220.1	1220.3	1220.5	1220.2	1219.3	1218.4	1217.5	1216.6	1217.5	1218.4	1219.3
152.5°	1240.1	1240.5	1240.9	1240.7	1240.0	1239.3	1238.6	1237.8	1238.6	1239.3	1240.0
155°	1267.1	1267.7	1268.4	1268.6	1268.4	1268.2	1268.0	1267.7	1268.0	1268.2	1268.4
157.5°	1290.3	1291.1	1291.9	1292.3	1292.4	1292.6	1292.7	1292.9	1292.7	1292.6	1292.4
160°	1303.9	1304.2	1304.4	1304.8	1305.6	1306.3	1307.0	1307.6	1307.0	1306.3	1305.6
162.5°	1316.3	1316.5	1316.7	1317.3	1318.1	1319.0	1319.9	1320.7	1319.9	1319.0	1318.1
165°	1332.2	1332.2	1332.2	1332.7	1333.8	1335.0	1336.2	1337.3	1336.2	1335.0	1333.8
167.5°	1344.7	1344.8	1345.0	1345.6	1346.9	1348.1	1349.2	1350.4	1349.2	1348.1	1346.9
170°	1352.2	1351.9	1351.7	1352.3	1353.6	1355.0	1356.3	1357.8	1356.3	1355.0	1353.6
172.5°	1357.1	1356.9	1356.7	1357.2	1358.6	1359.9	1361.3	1362.6	1361.3	1359.9	1358.6
175°	1362.4	1362.2	1362.0	1362.5	1363.9	1365.2	1366.7	1368.0	1366.7	1365.2	1363.9
177.5°	1365.6	1365.2	1364.9	1365.3	1366.7	1367.9	1369.2	1370.4	1369.2	1367.9	1366.7
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



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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°	23.2	23.7	26.7	28.3	30.6	34.1	35.7	43.1	45.9	49.5	55.4
90°	13.0	15.2	17.1	18.9	20.7	22.5	23.8	25.2	26.6	28.0	28.9
92.5°	13.4	14.4	16.3	18.1	19.9	21.7	23.0	24.4	25.8	27.2	27.9
95°	25.3	21.6	21.8	22.0	22.3	22.5	23.8	25.2	26.6	28.0	28.8
97.5°	138.8	128.6	103.1	77.8	52.4	27.0	27.2	27.3	27.5	27.6	27.8
100°	184.2	170.6	139.2	107.8	76.4	45.0	41.2	37.3	33.4	29.6	27.8
102.5°	233.8	233.3	229.2	225.1	221.0	216.9	175.2	133.5	91.8	50.1	29.3
105°	313.5	314.7	315.8	317.0	318.1	319.2	321.2	323.4	325.4	327.4	324.4
107.5°	390.7	391.8	393.3	395.0	396.5	398.0	399.0	400.0	401.0	402.0	402.9
110°	444.7	445.8	447.2	448.5	449.9	451.2	451.7	452.1	452.6	453.0	453.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	499.3	500.3	500.9	501.5	502.1	502.8	502.7	502.6	502.5	502.4	502.8
115°	577.7	577.9	577.7	577.5	577.3	577.0	577.5	577.9	578.5	578.9	579.2
117.5°	651.3	652.0	652.5	653.0	653.5	654.0	653.9	653.8	653.8	653.7	653.6
120°	700.4	700.7	700.5	700.3	700.0	699.8	700.3	700.7	701.3	701.7	701.7
122.5°	744.8	745.3	745.6	745.9	746.2	746.5	746.8	747.1	747.3	747.6	747.5
125°	811.9	812.1	811.7	811.2	810.8	810.3	811.0	811.7	812.4	813.0	813.5
127.5°	871.4	872.0	873.1	874.1	875.1	876.3	876.2	876.0	875.9	875.7	875.6
130°	911.5	912.0	912.7	913.3	914.0	914.7	914.9	915.1	915.4	915.6	915.7
132.5°	949.1	949.8	950.6	951.5	952.3	953.2	953.4	953.6	953.9	954.1	954.1
135°	1001.8	1002.2	1003.1	1004.0	1004.9	1005.8	1006.2	1006.7	1007.1	1007.6	1008.0
137.5°	1052.0	1052.5	1053.5	1054.5	1055.5	1056.5	1057.0	1057.5	1058.0	1058.5	1058.7
140°	1085.4	1085.8	1086.3	1086.7	1087.2	1087.6	1088.3	1089.0	1089.6	1090.4	1090.9
142.5°	1115.5	1116.0	1116.3	1116.5	1116.8	1117.1	1117.6	1118.1	1118.6	1119.1	1119.3
145°	1158.9	1159.2	1159.2	1159.2	1159.2	1159.2	1159.5	1159.7	1159.9	1160.1	1160.5
147.5°	1196.3	1196.8	1196.6	1196.4	1196.1	1195.9	1196.1	1196.3	1196.4	1196.6	1196.8
150°	1220.2	1220.5	1220.3	1220.1	1219.8	1219.6	1219.6	1219.6	1219.6	1219.6	1219.7
152.5°	1240.7	1240.9	1240.5	1240.1	1239.7	1239.3	1239.6	1240.0	1240.3	1240.7	1240.8
155°	1268.6	1268.4	1267.7	1267.1	1266.4	1265.7	1266.6	1267.5	1268.4	1269.3	1269.4
157.5°	1292.3	1291.9	1291.1	1290.3	1289.6	1288.8	1290.0	1291.1	1292.3	1293.5	1293.5
160°	1304.8	1304.4	1304.2	1303.9	1303.7	1303.5	1304.8	1306.3	1307.6	1309.0	1309.0
162.5°	1317.3	1316.7	1316.5	1316.3	1316.1	1315.8	1317.2	1318.5	1319.9	1321.2	1321.2
165°	1332.7	1332.2	1332.2	1332.2	1332.2	1332.2	1334.0	1335.8	1337.7	1339.5	1339.3
167.5°	1345.6	1345.0	1344.8	1344.7	1344.6	1344.4	1346.5	1348.5	1350.5	1352.4	1352.3
170°	1352.3	1351.7	1351.9	1352.2	1352.4	1352.6	1354.4	1356.2	1358.1	1359.9	1359.7
172.5°	1357.2	1356.7	1356.9	1357.1	1357.4	1357.6	1359.4	1361.2	1363.0	1364.8	1364.5
175°	1362.5	1362.0	1362.2	1362.4	1362.6	1362.9	1364.9	1367.0	1369.0	1371.1	1370.7
177.5°	1365.3	1364.9	1365.2	1365.6	1365.9	1366.3	1367.8	1369.3	1370.7	1372.2	1371.8
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



TEST NUMBER: P332847-840

CATALOG NUMBER: S124DIW-S1195D1050U840-4F0-1E-UDD-A

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°	57.5	58.2	60.2	61.6	60.2	58.2	57.5	55.4	49.5	45.9	43.1
90°	29.3	29.8	30.2	30.7	30.2	29.8	29.3	28.9	28.0	26.6	25.2
92.5°	28.0	28.1	28.2	28.3	28.2	28.1	28.0	27.9	27.2	25.8	24.4
95°	29.0	29.2	29.5	29.7	29.5	29.2	29.0	28.8	28.0	26.6	25.2
97.5°	28.0	28.2	28.4	28.7	28.4	28.2	28.0	27.8	27.6	27.5	27.3
100°	28.0	28.2	28.4	28.7	28.4	28.2	28.0	27.8	29.6	33.4	37.3
102.5°	29.3	29.4	29.4	29.5	29.4	29.4	29.3	29.3	50.1	91.8	133.5
105°	316.2	308.0	299.8	291.6	299.8	308.0	316.2	324.4	327.4	325.4	323.4
107.5°	403.8	404.7	405.6	406.4	405.6	404.7	403.8	402.9	402.0	401.0	400.0
110°	454.3	454.9	455.7	456.4	455.7	454.9	454.3	453.6	453.0	452.6	452.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	503.7	504.5	505.4	506.2	505.4	504.5	503.7	502.8	502.4	502.5	502.6
115°	579.2	579.2	579.2	579.2	579.2	579.2	579.2	579.2	578.9	578.5	577.9
117.5°	653.5	653.4	653.3	653.2	653.3	653.4	653.5	653.6	653.7	653.8	653.8
120°	701.3	700.7	700.3	699.8	700.3	700.7	701.3	701.7	701.7	701.3	700.7
122.5°	747.1	746.6	746.2	745.7	746.2	746.6	747.1	747.5	747.6	747.3	747.1
125°	813.7	814.0	814.3	814.5	814.3	814.0	813.7	813.5	813.0	812.4	811.7
127.5°	875.4	875.1	874.9	874.8	874.9	875.1	875.4	875.6	875.7	875.9	876.0
130°	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.6	915.4	915.1
132.5°	953.9	953.7	953.6	953.4	953.6	953.7	953.9	954.1	954.1	953.9	953.6
135°	1008.6	1009.0	1009.5	1009.9	1009.5	1009.0	1008.6	1008.0	1007.6	1007.1	1006.7
137.5°	1058.5	1058.4	1058.3	1058.1	1058.3	1058.4	1058.5	1058.7	1058.5	1058.0	1057.5
140°	1091.1	1091.3	1091.5	1091.8	1091.5	1091.3	1091.1	1090.9	1090.4	1089.6	1089.0
142.5°	1119.4	1119.4	1119.5	1119.5	1119.5	1119.4	1119.4	1119.3	1119.1	1118.6	1118.1
145°	1160.9	1161.4	1161.8	1162.4	1161.8	1161.4	1160.9	1160.5	1160.1	1159.9	1159.7
147.5°	1197.1	1197.3	1197.5	1197.7	1197.5	1197.3	1197.1	1196.8	1196.6	1196.4	1196.3
150°	1219.9	1220.2	1220.4	1220.6	1220.4	1220.2	1219.9	1219.7	1219.6	1219.6	1219.6
152.5°	1240.7	1240.5	1240.4	1240.3	1240.4	1240.5	1240.7	1240.8	1240.7	1240.3	1240.0
155°	1268.7	1268.1	1267.4	1266.7	1267.4	1268.1	1268.7	1269.4	1269.3	1268.4	1267.5
157.5°	1292.3	1291.1	1290.0	1288.8	1290.0	1291.1	1292.3	1293.5	1293.5	1292.3	1291.1
160°	1307.6	1306.3	1304.8	1303.5	1304.8	1306.3	1307.6	1309.0	1309.0	1307.6	1306.3
162.5°	1319.6	1318.1	1316.6	1314.9	1316.6	1318.1	1319.6	1321.2	1321.2	1319.9	1318.5
165°	1337.3	1335.2	1333.2	1331.1	1333.2	1335.2	1337.3	1339.3	1339.5	1337.7	1335.8
167.5°	1350.1	1347.8	1345.5	1343.2	1345.5	1347.8	1350.1	1352.3	1352.4	1350.5	1348.5
170°	1357.4	1355.1	1352.8	1350.6	1352.8	1355.1	1357.4	1359.7	1359.9	1358.1	1356.2
172.5°	1362.0	1359.6	1357.2	1354.6	1357.2	1359.6	1362.0	1364.5	1364.8	1363.0	1361.2
175°	1368.0	1365.2	1362.5	1359.8	1362.5	1365.2	1368.0	1370.7	1371.1	1369.0	1367.0
177.5°	1369.6	1367.5	1365.2	1363.1	1365.2	1367.5	1369.6	1371.8	1372.2	1370.7	1369.3
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



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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°	35.7	34.1	30.6	28.3	26.7	23.7	23.2	20.8	19.7	18.5	17.4
90°	23.8	22.5	20.7	18.9	17.1	15.2	13.0	10.6	8.1	5.6	3.0
92.5°	23.0	21.7	19.9	18.1	16.3	14.4	13.4	13.3	13.1	13.0	12.9
95°	23.8	22.5	22.3	22.0	21.8	21.6	25.3	33.1	40.8	48.6	56.2
97.5°	27.2	27.0	52.4	77.8	103.1	128.6	138.8	134.0	129.2	124.3	119.5
100°	41.2	45.0	76.4	107.8	139.2	170.6	184.2	180.1	176.0	171.9	167.8
102.5°	175.2	216.9	221.0	225.1	229.2	233.3	233.8	230.9	227.8	224.8	221.9
105°	321.2	319.2	318.1	317.0	315.8	314.7	313.5	312.0	310.7	309.3	308.0
107.5°	399.0	398.0	396.5	395.0	393.3	391.8	390.7	390.0	389.3	388.7	388.0
110°	451.7	451.2	449.9	448.5	447.2	445.8	444.7	444.0	443.3	442.7	442.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	502.7	502.8	502.1	501.5	500.9	500.3	499.3	498.1	496.9	495.6	494.4
115°	577.5	577.0	577.3	577.5	577.7	577.9	577.7	577.0	576.4	575.7	575.0
117.5°	653.9	654.0	653.5	653.0	652.5	652.0	651.3	650.4	649.4	648.5	647.6
120°	700.3	699.8	700.0	700.3	700.5	700.7	700.4	699.5	698.6	697.7	696.8
122.5°	746.8	746.5	746.2	745.9	745.6	745.3	744.8	744.3	743.7	743.2	742.7
125°	811.0	810.3	810.8	811.2	811.7	812.1	811.9	811.0	810.1	809.2	808.3
127.5°	876.2	876.3	875.1	874.1	873.1	872.0	871.4	871.2	871.0	870.7	870.5
130°	914.9	914.7	914.0	913.3	912.7	912.0	911.5	911.3	911.1	910.9	910.6
132.5°	953.4	953.2	952.3	951.5	950.6	949.8	949.1	948.7	948.3	947.9	947.5
135°	1006.2	1005.8	1004.9	1004.0	1003.1	1002.2	1001.8	1002.0	1002.3	1002.5	1002.7
137.5°	1057.0	1056.5	1055.5	1054.5	1053.5	1052.5	1052.0	1051.9	1051.8	1051.7	1051.6
140°	1088.3	1087.6	1087.2	1086.7	1086.3	1085.8	1085.4	1084.9	1084.5	1084.0	1083.6
142.5°	1117.6	1117.1	1116.8	1116.5	1116.3	1116.0	1115.5	1114.7	1113.8	1113.0	1112.2
145°	1159.5	1159.2	1159.2	1159.2	1159.2	1159.2	1158.9	1158.2	1157.5	1156.9	1156.2
147.5°	1196.1	1195.9	1196.1	1196.4	1196.6	1196.8	1196.3	1195.0	1193.8	1192.4	1191.1
150°	1219.6	1219.6	1219.8	1220.1	1220.3	1220.5	1220.2	1219.3	1218.4	1217.5	1216.6
152.5°	1239.6	1239.3	1239.7	1240.1	1240.5	1240.9	1240.7	1240.0	1239.3	1238.6	1237.8
155°	1266.6	1265.7	1266.4	1267.1	1267.7	1268.4	1268.6	1268.4	1268.2	1268.0	1267.7
157.5°	1290.0	1288.8	1289.6	1290.3	1291.1	1291.9	1292.3	1292.4	1292.6	1292.7	1292.9
160°	1304.8	1303.5	1303.7	1303.9	1304.2	1304.4	1304.8	1305.6	1306.3	1307.0	1307.6
162.5°	1317.2	1315.8	1316.1	1316.3	1316.5	1316.7	1317.3	1318.1	1319.0	1319.9	1320.7
165°	1334.0	1332.2	1332.2	1332.2	1332.2	1332.2	1332.7	1333.8	1335.0	1336.2	1337.3
167.5°	1346.5	1344.4	1344.6	1344.7	1344.8	1345.0	1345.6	1346.9	1348.1	1349.2	1350.4
170°	1354.4	1352.6	1352.4	1352.2	1351.9	1351.7	1352.3	1353.6	1355.0	1356.3	1357.8
172.5°	1359.4	1357.6	1357.4	1357.1	1356.9	1356.7	1357.2	1358.6	1359.9	1361.3	1362.6
175°	1364.9	1362.9	1362.6	1362.4	1362.2	1362.0	1362.5	1363.9	1365.2	1366.7	1368.0
177.5°	1367.8	1366.3	1365.9	1365.6	1365.2	1364.9	1365.3	1366.7	1367.9	1369.2	1370.4
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



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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°	18.5	19.7	22.1	24.5	27.6	28.6	28.3	28.7	26.5	26.1	23.7
90°	5.6	8.1	10.6	13.0	15.2	17.1	18.9	20.7	22.5	23.8	25.2
92.5°	13.0	13.1	13.3	13.4	14.4	16.3	18.1	19.9	21.7	23.0	24.4
95°	48.6	40.8	33.1	25.3	21.6	21.8	22.0	22.3	22.5	23.8	25.2
97.5°	124.3	129.2	134.0	138.8	128.6	103.1	77.8	52.4	27.0	27.2	27.3
100°	171.9	176.0	180.1	184.2	170.6	139.2	107.8	76.4	45.0	41.2	37.3
102.5°	224.8	227.8	230.9	233.8	233.3	229.2	225.1	221.0	216.9	175.2	133.5
105°	309.3	310.7	312.0	313.5	314.7	315.8	317.0	318.1	319.2	321.2	323.4
107.5°	388.7	389.3	390.0	390.7	391.8	393.3	395.0	396.5	398.0	399.0	400.0
110°	442.7	443.3	444.0	444.7	445.8	447.2	448.5	449.9	451.2	451.7	452.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	495.6	496.9	498.1	499.3	500.3	500.9	501.5	502.1	502.8	502.7	502.6
115°	575.7	576.4	577.0	577.7	577.9	577.7	577.5	577.3	577.0	577.5	577.9
117.5°	648.5	649.4	650.4	651.3	652.0	652.5	653.0	653.5	654.0	653.9	653.8
120°	697.7	698.6	699.5	700.4	700.7	700.5	700.3	700.0	699.8	700.3	700.7
122.5°	743.2	743.7	744.3	744.8	745.3	745.6	745.9	746.2	746.5	746.8	747.1
125°	809.2	810.1	811.0	811.9	812.1	811.7	811.2	810.8	810.3	811.0	811.7
127.5°	870.7	871.0	871.2	871.4	872.0	873.1	874.1	875.1	876.3	876.2	876.0
130°	910.9	911.1	911.3	911.5	912.0	912.7	913.3	914.0	914.7	914.9	915.1
132.5°	947.9	948.3	948.7	949.1	949.8	950.6	951.5	952.3	953.2	953.4	953.6
135°	1002.5	1002.3	1002.0	1001.8	1002.2	1003.1	1004.0	1004.9	1005.8	1006.2	1006.7
137.5°	1051.7	1051.8	1051.9	1052.0	1052.5	1053.5	1054.5	1055.5	1056.5	1057.0	1057.5
140°	1084.0	1084.5	1084.9	1085.4	1085.8	1086.3	1086.7	1087.2	1087.6	1088.3	1089.0
142.5°	1113.0	1113.8	1114.7	1115.5	1116.0	1116.3	1116.5	1116.8	1117.1	1117.6	1118.1
145°	1156.9	1157.5	1158.2	1158.9	1159.2	1159.2	1159.2	1159.2	1159.2	1159.5	1159.7
147.5°	1192.4	1193.8	1195.0	1196.3	1196.8	1196.6	1196.4	1196.1	1195.9	1196.1	1196.3
150°	1217.5	1218.4	1219.3	1220.2	1220.5	1220.3	1220.1	1219.8	1219.6	1219.6	1219.6
152.5°	1238.6	1239.3	1240.0	1240.7	1240.9	1240.5	1240.1	1239.7	1239.3	1239.6	1240.0
155°	1268.0	1268.2	1268.4	1268.6	1268.4	1267.7	1267.1	1266.4	1265.7	1266.6	1267.5
157.5°	1292.7	1292.6	1292.4	1292.3	1291.9	1291.1	1290.3	1289.6	1288.8	1290.0	1291.1
160°	1307.0	1306.3	1305.6	1304.8	1304.4	1304.2	1303.9	1303.7	1303.5	1304.8	1306.3
162.5°	1319.9	1319.0	1318.1	1317.3	1316.7	1316.5	1316.3	1316.1	1315.8	1317.2	1318.5
165°	1336.2	1335.0	1333.8	1332.7	1332.2	1332.2	1332.2	1332.2	1332.2	1334.0	1335.8
167.5°	1349.2	1348.1	1346.9	1345.6	1345.0	1344.8	1344.7	1344.6	1344.4	1346.5	1348.5
170°	1356.3	1355.0	1353.6	1352.3	1351.7	1351.9	1352.2	1352.4	1352.6	1354.4	1356.2
172.5°	1361.3	1359.9	1358.6	1357.2	1356.7	1356.9	1357.1	1357.4	1357.6	1359.4	1361.2
175°	1366.7	1365.2	1363.9	1362.5	1362.0	1362.2	1362.4	1362.6	1362.9	1364.9	1367.0
177.5°	1369.2	1367.9	1366.7	1365.3	1364.9	1365.2	1365.6	1365.9	1366.3	1367.8	1369.3
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0



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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°	24.6	24.3	23.8	22.6	22.1	22.2	20.3
90°	26.6	28.0	28.9	29.3	29.8	30.2	30.7
92.5°	25.8	27.2	27.9	28.0	28.1	28.2	28.3
95°	26.6	28.0	28.8	29.0	29.2	29.5	29.7
97.5°	27.5	27.6	27.8	28.0	28.2	28.4	28.7
100°	33.4	29.6	27.8	28.0	28.2	28.4	28.7
102.5°	91.8	50.1	29.3	29.3	29.4	29.4	29.5
105°	325.4	327.4	324.4	316.2	308.0	299.8	291.6
107.5°	401.0	402.0	402.9	403.8	404.7	405.6	406.4
110°	452.6	453.0	453.6	454.3	454.9	455.7	456.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	502.5	502.4	502.8	503.7	504.5	505.4	506.2
115°	578.5	578.9	579.2	579.2	579.2	579.2	579.2
117.5°	653.8	653.7	653.6	653.5	653.4	653.3	653.2
120°	701.3	701.7	701.7	701.3	700.7	700.3	699.8
122.5°	747.3	747.6	747.5	747.1	746.6	746.2	745.7
125°	812.4	813.0	813.5	813.7	814.0	814.3	814.5
127.5°	875.9	875.7	875.6	875.4	875.1	874.9	874.8
130°	915.4	915.6	915.7	915.7	915.7	915.7	915.7
132.5°	953.9	954.1	954.1	953.9	953.7	953.6	953.4
135°	1007.1	1007.6	1008.0	1008.6	1009.0	1009.5	1009.9
137.5°	1058.0	1058.5	1058.7	1058.5	1058.4	1058.3	1058.1
140°	1089.6	1090.4	1090.9	1091.1	1091.3	1091.5	1091.8
142.5°	1118.6	1119.1	1119.3	1119.4	1119.4	1119.5	1119.5
145°	1159.9	1160.1	1160.5	1160.9	1161.4	1161.8	1162.4
147.5°	1196.4	1196.6	1196.8	1197.1	1197.3	1197.5	1197.7
150°	1219.6	1219.6	1219.7	1219.9	1220.2	1220.4	1220.6
152.5°	1240.3	1240.7	1240.8	1240.7	1240.5	1240.4	1240.3
155°	1268.4	1269.3	1269.4	1268.7	1268.1	1267.4	1266.7
157.5°	1292.3	1293.5	1293.5	1292.3	1291.1	1290.0	1288.8
160°	1307.6	1309.0	1309.0	1307.6	1306.3	1304.8	1303.5
162.5°	1319.9	1321.2	1321.2	1319.6	1318.1	1316.6	1314.9
165°	1337.7	1339.5	1339.3	1337.3	1335.2	1333.2	1331.1
167.5°	1350.5	1352.4	1352.3	1350.1	1347.8	1345.5	1343.2
170°	1358.1	1359.9	1359.7	1357.4	1355.1	1352.8	1350.6
172.5°	1363.0	1364.8	1364.5	1362.0	1359.6	1357.2	1354.6
175°	1369.0	1371.1	1370.7	1368.0	1365.2	1362.5	1359.8
177.5°	1370.7	1372.2	1371.8	1369.6	1367.5	1365.2	1363.1
180°	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0

(END OF REPORT)