

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: P332028-840

Luminaire Tested: **S123DIP-S1000D1025U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332028-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D1025U840-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7840.3 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

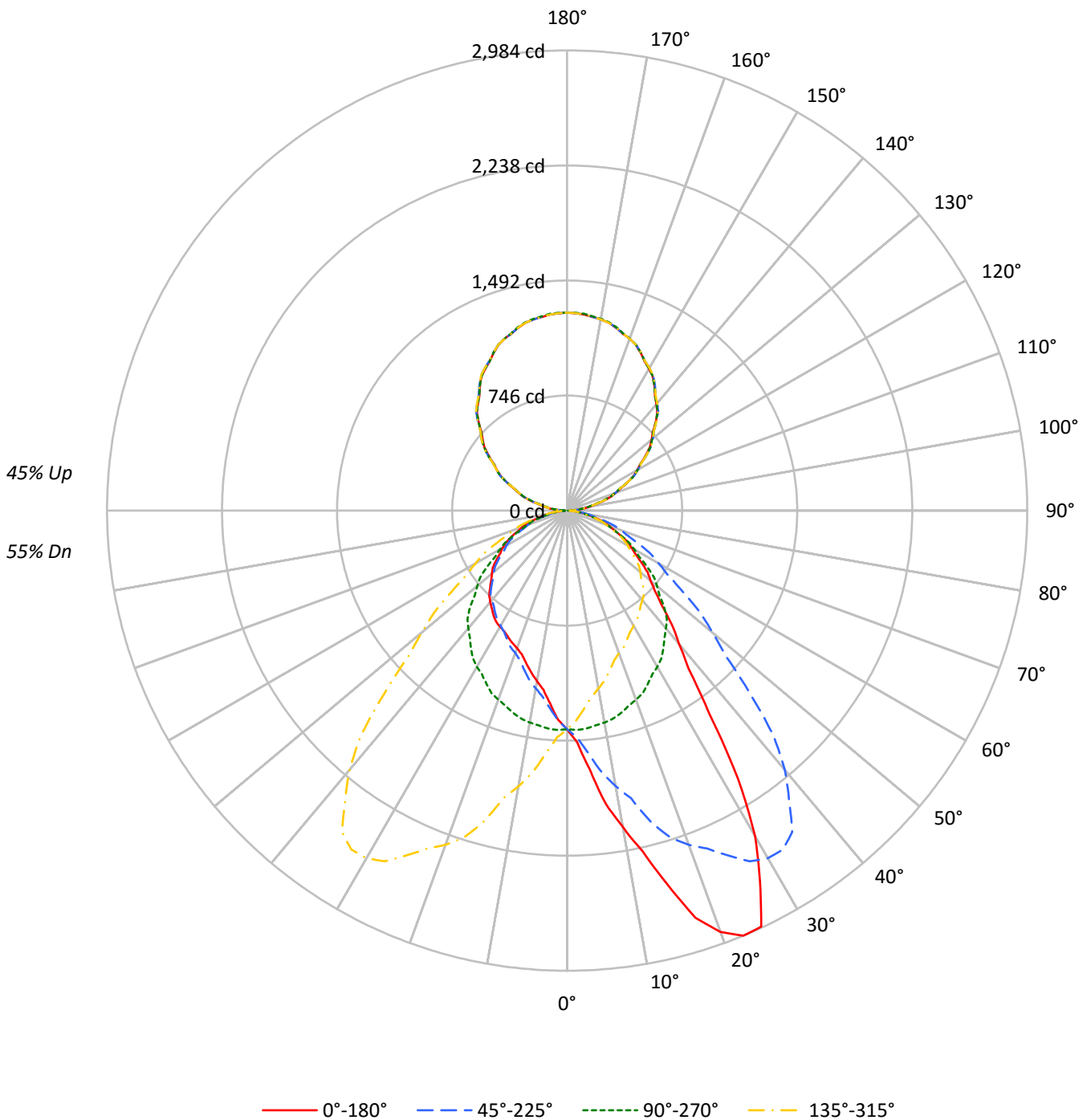
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	77	68	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	64	54	47	42	47	42	37	41	36	33	34	31	29	25
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	33	29	26	29	25	22	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15268	15268	15268	15268
5°	18208	15333	13588	15333
10°	22789	15255	12273	15255
15°	27952	15133	11426	15133
20°	33298	14940	10879	14940
25°	35357	14707	10757	14707
30°	30305	14537	10813	14537
35°	21077	14294	10926	14294
40°	15874	14011	10893	14011
45°	13181	13589	10753	13589
50°	11807	12727	10655	12727
55°	11038	11798	10524	11798
60°	10355	10828	10415	10828
65°	9732	9872	10083	9872
70°	9127	8781	9602	8781
75°	8172	7690	8804	7690
80°	7153	6304	7581	6304
85°	5595	4582	5088	4582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.8
10°-20°	448.0	5.7
20°-30°	751.9	9.6
30°-40°	851.4	10.9
40°-50°	763.5	9.7
50°-60°	616.1	7.9
60°-70°	429.4	5.5
70°-80°	225.7	2.9
80°-90°	59.0	0.8
90°-100°	83.6	1.1
100°-110°	250.2	3.2
110°-120°	425.6	5.4
120°-130°	559.8	7.1
130°-140°	629.2	8.0
140°-150°	618.5	7.9
150°-160°	520.7	6.6
160°-170°	346.6	4.4
170°-180°	121.4	1.5
0°-30°	1339.7	17.1
0°-40°	2191.1	27.9
0°-60°	3570.7	45.5
0°-90°	4284.8	54.7
90°-120°	759.4	9.7
90°-150°	2566.9	32.7
90°-180°	3555.0	45.3
0°-180°	7840.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1685	1419	1258	1419	1685	175
15°	2508	1358	1025	1358	2508	724
25°	2977	1238	906	1238	2977	1306
35°	1604	1088	832	1088	1604	1042
45°	866	893	706	893	866	685
55°	588	629	561	629	588	528
65°	382	388	396	388	382	380
75°	196	185	212	185	196	210
85°	45	37	41	37	45	54
90°	30	1	30	1	30	17
95°	79	60	79	60	79	81
105°	240	227	240	227	240	255
115°	429	428	429	428	429	425
125°	620	627	620	627	620	554
135°	812	814	812	814	812	625
145°	987	987	987	987	987	616
155°	1128	1130	1128	1130	1128	519
165°	1227	1231	1227	1231	1227	346
175°	1275	1280	1275	1280	1275	121
180°	1283	1283	1283	1283	1283	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1505.2	1504.2	1501.4	1503.6	1499.2	1493.2	1492.6	1487.1	1471.2	1470.1	1465.7
5°	1685.1	1679.5	1678.8	1678.2	1668.5	1655.5	1630.7	1628.7	1595.7	1579.2	1559.2
7.5°	1917.8	1920.8	1910.7	1901.9	1872.5	1853.1	1826.5	1792.6	1752.1	1711.0	1683.6
10°	2085.0	2107.7	2079.5	2060.2	2042.4	2008.7	1969.5	1920.8	1872.0	1814.9	1771.6
12.5°	2264.2	2275.3	2269.7	2251.6	2223.8	2172.5	2103.1	2049.4	2004.5	1909.5	1871.1
15°	2508.3	2550.2	2523.5	2461.5	2463.0	2414.2	2323.4	2223.8	2170.9	2087.7	1974.4
17.5°	2768.3	2773.6	2762.2	2710.6	2676.2	2609.2	2525.5	2429.9	2322.8	2222.1	2101.9
20°	2906.9	2902.8	2878.7	2851.9	2792.8	2740.6	2649.2	2542.6	2405.2	2306.2	2175.0
22.5°	2983.8	2977.0	2965.6	2943.2	2894.0	2837.9	2755.8	2639.4	2508.6	2372.3	2220.6
25°	2977.0	2985.9	2987.3	2981.1	2964.0	2930.2	2865.6	2772.9	2642.3	2467.1	2309.1
27.5°	2707.5	2720.3	2756.9	2789.6	2825.9	2863.1	2858.1	2812.1	2715.4	2564.0	2370.9
30°	2438.2	2410.7	2478.7	2564.7	2623.0	2726.1	2783.9	2787.3	2733.0	2603.1	2414.8
32.5°	2064.4	2094.6	2124.7	2230.4	2358.0	2473.8	2588.7	2681.2	2691.8	2605.4	2440.6
35°	1604.0	1641.7	1696.7	1751.7	1889.2	2007.3	2209.4	2385.3	2525.5	2544.1	2443.0
37.5°	1292.5	1311.2	1345.9	1401.1	1491.0	1631.1	1787.5	2009.8	2212.9	2364.0	2370.6
40°	1129.7	1135.3	1174.5	1216.4	1289.2	1404.6	1545.5	1742.0	1985.3	2196.4	2284.3
42.5°	1007.7	1019.8	1036.4	1076.7	1134.7	1221.5	1352.5	1515.0	1738.0	1980.7	2152.8
45°	865.9	879.6	889.9	916.8	958.0	1016.3	1107.8	1256.2	1425.9	1676.8	1908.3
47.5°	772.1	773.3	780.9	801.1	829.2	873.0	937.7	1033.0	1188.8	1392.3	1630.0
50°	705.1	716.1	718.8	734.6	756.6	788.9	842.5	923.6	1051.5	1230.1	1448.7
52.5°	657.8	661.1	668.8	680.2	699.4	724.6	771.0	834.6	934.8	1087.1	1288.1
55°	588.2	588.2	595.8	604.7	615.7	638.4	669.3	716.1	792.3	910.6	1076.8
57.5°	523.9	527.4	532.7	535.4	544.8	559.8	585.6	621.1	678.0	769.0	901.2
60°	481.0	487.3	486.6	492.0	500.3	512.0	533.9	562.8	613.7	686.5	797.9
62.5°	443.6	443.2	443.1	449.7	458.0	469.1	483.4	508.4	551.6	616.1	710.9
65°	382.1	380.7	385.6	389.6	392.4	400.6	411.6	433.6	462.5	510.6	584.1
67.5°	327.4	323.4	326.0	327.4	332.0	338.5	348.8	362.4	385.4	424.0	479.4
70°	290.0	286.6	285.9	287.2	291.3	296.2	303.8	316.8	338.1	369.0	409.6
72.5°	251.6	249.1	249.0	252.1	254.0	257.1	262.5	274.5	291.3	314.6	352.4
75°	196.5	196.5	196.5	197.2	199.2	202.1	206.1	212.4	225.4	241.9	267.3
77.5°	147.3	147.2	146.3	146.2	149.3	150.5	151.5	157.2	164.5	175.6	194.2
80°	115.4	112.0	113.4	115.4	116.8	117.5	119.6	121.0	127.1	133.3	146.3
82.5°	85.7	82.9	83.1	86.3	86.5	87.3	89.4	91.3	93.6	99.3	106.2
85°	45.3	45.3	46.0	46.0	46.8	46.0	48.1	48.8	48.8	52.2	56.4
87.5°	22.5	21.3	21.8	22.3	21.6	22.0	22.4	22.8	23.1	23.5	23.5
90°	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0	25.0	24.2	21.3
92.5°	40.7	41.0	41.3	41.5	41.8	41.6	40.9	40.2	39.4	38.7	37.1
95°	78.7	78.7	78.7	78.7	78.7	78.2	77.3	76.3	75.5	74.6	72.8
97.5°	121.0	121.1	121.2	121.3	121.3	120.9	119.9	118.8	117.8	116.7	115.4
100°	153.2	152.8	152.3	151.9	151.5	150.9	150.2	149.6	148.9	148.1	147.0
102.5°	186.3	186.4	186.4	186.5	186.6	186.3	185.7	185.0	184.3	183.7	182.2
105°	239.9	239.4	239.0	238.5	238.1	237.9	237.9	237.9	237.9	237.9	235.9
107.5°	295.8	296.0	296.3	296.6	296.8	296.6	295.9	295.2	294.5	293.8	293.0
110°	333.7	334.2	334.6	335.0	335.5	335.3	334.4	333.5	332.5	331.6	331.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	374.0	374.1	374.2	374.3	374.4	373.9	372.7	371.7	370.6	369.5	369.5
115°	429.4	429.7	429.9	430.1	430.3	430.3	430.1	429.9	429.7	429.4	429.9
117.5°	485.6	486.4	487.0	487.6	488.2	488.6	488.6	488.6	488.7	488.7	489.3
120°	525.2	525.6	526.1	526.5	526.9	527.4	527.6	527.8	528.0	528.3	529.4
122.5°	563.1	563.7	564.3	565.0	565.6	566.2	566.8	567.3	567.9	568.6	569.2
125°	620.0	620.9	621.8	622.7	623.5	624.4	625.3	626.2	627.1	628.0	628.4
127.5°	676.6	677.6	678.6	679.7	680.8	681.9	683.2	684.4	685.6	686.9	687.4
130°	713.7	715.3	716.8	718.4	719.9	721.2	722.1	723.0	723.9	724.8	725.5
132.5°	752.5	753.7	754.9	756.1	757.3	758.4	759.5	760.5	761.6	762.7	763.2
135°	812.5	812.9	813.3	813.9	814.3	815.0	815.9	816.8	817.7	818.5	818.8
137.5°	865.6	866.4	867.2	868.1	868.9	869.8	870.8	871.7	872.6	873.5	873.0
140°	900.2	901.8	903.3	904.9	906.5	907.4	907.6	907.8	908.1	908.3	908.1
142.5°	935.6	936.9	938.1	939.3	940.5	941.2	941.5	941.7	941.9	942.1	941.7
145°	986.8	987.7	988.7	989.6	990.5	991.0	991.3	991.5	991.7	991.9	991.3
147.5°	1032.5	1033.8	1035.1	1036.5	1037.8	1038.5	1038.5	1038.5	1038.5	1038.5	1037.8
150°	1061.5	1062.8	1064.2	1065.5	1066.8	1067.5	1067.5	1067.5	1067.5	1067.5	1067.1
152.5°	1089.7	1090.9	1092.1	1093.2	1094.4	1094.8	1094.4	1094.1	1093.7	1093.4	1093.1
155°	1128.0	1129.5	1131.1	1132.8	1134.3	1134.6	1133.8	1132.9	1132.0	1131.0	1130.8
157.5°	1162.9	1164.2	1165.4	1166.7	1167.9	1168.1	1167.1	1166.2	1165.3	1164.3	1164.2
160°	1185.5	1186.4	1187.3	1188.2	1189.0	1188.9	1187.8	1186.7	1185.6	1184.5	1184.5
162.5°	1202.4	1203.9	1205.3	1206.7	1208.1	1208.3	1207.2	1206.1	1205.0	1203.9	1203.7
165°	1226.8	1228.4	1229.9	1231.5	1233.0	1233.1	1231.8	1230.5	1229.1	1227.8	1227.8
167.5°	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1	1251.7	1250.3	1249.0	1247.6	1247.4
170°	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4	1262.7	1261.2	1259.6	1258.1	1258.1
172.5°	1266.1	1267.7	1269.3	1270.8	1272.4	1272.4	1271.1	1269.7	1268.3	1266.9	1266.9
175°	1275.2	1276.8	1278.3	1279.9	1281.4	1281.6	1280.2	1278.9	1277.6	1276.2	1276.2
177.5°	1280.0	1281.3	1282.5	1283.8	1285.1	1285.2	1284.0	1283.0	1281.9	1280.8	1280.8
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1462.4	1457.9	1453.6	1445.9	1439.3	1430.0	1427.1	1423.9	1414.0	1405.2	1398.6
5°	1551.7	1535.2	1511.2	1489.1	1471.3	1447.2	1433.5	1419.1	1398.5	1379.9	1364.8
7.5°	1645.2	1612.8	1575.4	1534.9	1497.3	1461.0	1431.7	1405.6	1376.7	1349.4	1328.1
10°	1719.4	1672.6	1620.4	1564.1	1516.0	1469.3	1430.1	1395.7	1358.6	1326.3	1299.5
12.5°	1804.0	1734.7	1662.7	1594.3	1537.4	1472.6	1425.1	1381.4	1339.4	1300.5	1270.4
15°	1904.2	1816.2	1731.1	1636.9	1550.3	1469.3	1412.9	1358.0	1309.1	1269.3	1230.8
17.5°	1995.5	1895.8	1783.5	1669.1	1564.6	1468.4	1389.6	1327.4	1266.4	1217.6	1179.2
20°	2047.2	1933.8	1806.6	1687.8	1572.4	1465.1	1378.6	1304.3	1238.3	1186.8	1143.5
22.5°	2091.7	1959.0	1827.6	1700.4	1571.8	1456.3	1358.2	1281.8	1210.3	1159.8	1113.8
25°	2137.9	1979.1	1847.2	1698.1	1554.5	1434.9	1324.9	1238.3	1166.9	1107.8	1060.4
27.5°	2177.5	1977.8	1821.2	1660.8	1527.2	1407.3	1290.0	1197.1	1121.3	1057.0	1009.0
30°	2203.8	1980.5	1794.3	1635.6	1500.9	1377.2	1263.0	1169.6	1089.9	1024.6	979.3
32.5°	2220.4	1978.8	1769.6	1600.3	1459.1	1349.7	1234.0	1137.2	1055.3	991.1	947.4
35°	2230.0	1966.8	1727.0	1527.6	1391.6	1285.1	1188.2	1087.8	1002.0	942.2	892.7
37.5°	2210.7	1941.4	1677.5	1457.5	1308.6	1203.7	1122.2	1036.7	954.5	888.7	846.1
40°	2180.5	1924.9	1639.0	1408.1	1251.4	1150.3	1081.0	997.1	916.0	853.5	813.6
42.5°	2122.7	1891.3	1596.7	1353.1	1192.0	1091.0	1027.1	957.0	880.3	821.6	781.7
45°	1981.9	1818.4	1533.2	1270.6	1104.3	999.9	943.5	892.7	823.2	766.2	731.8
47.5°	1786.5	1708.5	1441.4	1183.7	1012.8	912.3	853.7	812.8	762.1	716.1	683.1
50°	1650.6	1618.4	1379.2	1124.3	951.8	853.5	797.2	760.0	723.7	677.6	647.3
52.5°	1494.0	1513.9	1306.7	1062.7	889.7	793.0	740.0	710.5	677.4	639.6	613.3
55°	1273.4	1345.5	1181.3	959.4	797.2	705.1	654.9	628.7	609.6	581.4	558.7
57.5°	1066.8	1158.6	1045.8	852.8	706.3	626.8	578.8	550.3	538.0	523.2	505.3
60°	944.2	1034.9	949.1	781.3	645.3	569.7	527.0	503.0	490.7	480.4	465.2
62.5°	834.9	926.7	854.4	708.8	585.3	515.2	478.2	454.6	445.0	439.7	426.8
65°	684.5	763.5	715.4	595.8	499.6	437.8	404.0	387.6	378.7	376.6	368.3
67.5°	557.0	617.2	582.2	494.2	418.5	365.1	336.5	322.4	315.6	314.9	308.7
70°	473.5	529.9	503.0	423.3	358.0	316.1	291.3	279.0	274.9	274.2	270.7
72.5°	408.6	447.9	426.6	360.1	309.6	271.6	253.5	240.5	235.8	236.8	234.5
75°	302.4	331.9	319.5	273.5	233.0	208.2	193.1	184.9	180.8	182.8	180.1
77.5°	217.5	236.3	225.1	193.3	168.2	150.4	139.3	134.1	130.5	130.3	129.1
80°	164.2	175.2	169.1	149.8	129.2	114.1	105.1	101.7	99.7	99.0	98.3
82.5°	116.9	126.3	119.1	105.8	91.8	82.7	77.7	73.1	71.6	72.0	71.3
85°	59.1	62.5	59.8	51.5	46.0	41.9	39.2	37.1	35.7	36.5	35.0
87.5°	24.0	23.9	21.7	19.1	17.5	15.3	14.9	13.4	12.7	13.2	13.1
90°	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0	3.2	5.5	7.8
92.5°	35.3	33.7	32.1	30.5	29.0	27.5	26.0	24.4	26.0	27.5	29.0
95°	71.0	69.2	67.5	65.7	64.2	62.6	61.0	59.5	61.0	62.6	64.2
97.5°	114.1	112.8	111.5	110.3	109.2	108.0	106.8	105.6	106.8	108.0	109.2
100°	145.9	144.8	143.7	142.5	141.1	139.8	138.5	137.1	138.5	139.8	141.1
102.5°	180.7	179.3	177.7	176.6	175.8	175.0	174.2	173.4	174.2	175.0	175.8
105°	233.9	231.9	229.8	228.6	228.1	227.7	227.2	226.8	227.2	227.7	228.1
107.5°	292.2	291.3	290.5	290.0	289.7	289.4	289.2	288.9	289.2	289.4	289.7
110°	330.7	330.3	329.8	329.4	328.9	328.5	328.1	327.6	328.1	328.5	328.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	369.4	369.3	369.2	369.0	368.7	368.5	368.2	367.9	368.2	368.5	368.7
115°	430.3	430.8	431.2	431.1	430.4	429.8	429.1	428.4	429.1	429.8	430.4
117.5°	489.9	490.5	491.0	491.1	490.7	490.2	489.8	489.3	489.8	490.2	490.7
120°	530.5	531.6	532.7	532.6	531.3	529.9	528.6	527.3	528.6	529.9	531.3
122.5°	569.7	570.3	570.9	570.7	569.7	568.7	567.7	566.7	567.7	568.7	569.7
125°	628.9	629.3	629.9	629.7	629.0	628.3	627.7	627.0	627.7	628.3	629.0
127.5°	687.9	688.3	688.8	688.4	686.9	685.5	684.1	682.7	684.1	685.5	686.9
130°	726.1	726.8	727.5	726.9	725.1	723.4	721.5	719.7	721.5	723.4	725.1
132.5°	763.7	764.2	764.7	764.1	762.2	760.4	758.6	756.9	758.6	760.4	762.2
135°	819.0	819.2	819.4	818.9	817.5	816.2	814.9	813.5	814.9	816.2	817.5
137.5°	872.4	871.8	871.2	870.4	869.3	868.2	867.1	866.0	867.1	868.2	869.3
140°	907.8	907.6	907.4	906.7	905.5	904.4	903.3	902.2	903.3	904.4	905.5
142.5°	941.3	940.9	940.5	939.8	938.7	937.6	936.3	935.2	936.3	937.6	938.7
145°	990.6	989.9	989.3	988.7	988.3	987.7	987.3	986.8	987.3	987.7	988.3
147.5°	1037.2	1036.6	1036.0	1035.3	1034.5	1033.7	1032.9	1032.1	1032.9	1033.7	1034.5
150°	1066.6	1066.2	1065.7	1065.3	1064.8	1064.4	1064.0	1063.5	1064.0	1064.4	1064.8
152.5°	1092.8	1092.6	1092.3	1091.8	1091.2	1090.6	1089.9	1089.3	1089.9	1090.6	1091.2
155°	1130.5	1130.3	1130.1	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
157.5°	1164.0	1163.8	1163.6	1163.7	1163.9	1164.2	1164.5	1164.7	1164.5	1164.2	1163.9
160°	1184.5	1184.5	1184.5	1184.7	1185.2	1185.6	1186.0	1186.5	1186.0	1185.6	1185.2
162.5°	1203.5	1203.3	1203.2	1203.4	1204.0	1204.6	1205.2	1205.9	1205.2	1204.6	1204.0
165°	1227.8	1227.8	1227.8	1228.2	1228.8	1229.5	1230.1	1230.8	1230.1	1229.5	1228.8
167.5°	1247.2	1247.1	1246.9	1247.2	1248.1	1249.0	1249.9	1250.8	1249.9	1249.0	1248.1
170°	1258.1	1258.1	1258.1	1258.5	1259.4	1260.3	1261.2	1262.1	1261.2	1260.3	1259.4
172.5°	1266.9	1266.9	1266.9	1267.4	1268.3	1269.2	1270.1	1270.9	1270.1	1269.2	1268.3
175°	1276.2	1276.2	1276.2	1276.7	1277.6	1278.4	1279.3	1280.2	1279.3	1278.4	1277.6
177.5°	1280.8	1280.8	1280.8	1281.2	1281.9	1282.6	1283.3	1284.0	1283.3	1282.6	1281.9
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1394.7	1390.9	1385.4	1377.2	1370.6	1360.1	1360.1	1361.8	1361.8	1361.2	1360.1
5°	1352.4	1342.1	1329.8	1315.3	1300.2	1285.1	1282.3	1276.9	1272.7	1269.9	1266.5
7.5°	1307.8	1289.5	1271.4	1251.2	1232.8	1217.6	1207.0	1198.2	1192.5	1186.5	1182.1
10°	1277.5	1254.9	1233.6	1212.2	1188.8	1170.3	1158.6	1150.3	1144.2	1138.7	1136.0
12.5°	1241.7	1215.8	1192.3	1172.0	1146.5	1127.4	1116.3	1112.5	1105.2	1093.6	1087.5
15°	1189.5	1165.5	1137.3	1106.4	1094.0	1070.7	1057.6	1051.5	1047.3	1038.3	1035.6
17.5°	1144.9	1113.4	1081.8	1058.7	1035.7	1016.8	1009.5	1001.8	996.3	989.1	986.8
20°	1109.1	1081.0	1052.1	1027.3	1003.3	982.7	976.5	971.0	965.5	962.1	959.4
22.5°	1072.9	1044.7	1020.8	997.6	972.0	958.5	951.8	945.7	941.9	939.6	936.8
25°	1021.9	997.1	970.4	949.7	929.1	920.2	916.0	912.6	909.9	906.5	905.7
27.5°	976.2	949.3	927.6	908.4	893.5	886.1	882.1	880.4	881.0	882.2	883.0
30°	942.2	917.5	899.6	883.0	869.3	862.4	861.7	861.7	864.5	865.2	866.6
32.5°	910.8	890.5	872.6	856.7	846.3	841.5	844.1	844.1	846.4	848.2	850.6
35°	865.2	847.3	833.5	819.8	810.9	812.9	814.4	815.7	819.1	823.2	826.1
37.5°	821.6	806.1	791.8	781.0	777.0	780.6	784.0	786.9	790.8	794.0	796.8
40°	790.3	778.6	764.9	755.3	756.6	758.7	761.4	764.9	768.3	770.3	773.2
42.5°	761.1	748.9	738.5	730.5	732.5	735.1	736.7	738.5	742.5	746.2	747.8
45°	716.8	707.1	697.5	692.7	694.1	695.5	696.8	698.9	702.4	705.1	705.8
47.5°	666.8	660.1	653.7	649.0	651.2	650.7	652.5	656.8	657.9	659.5	663.4
50°	635.0	628.7	621.3	619.9	619.9	619.9	620.6	626.0	626.0	628.7	631.6
52.5°	599.8	595.8	591.0	588.5	587.4	587.4	590.3	593.1	594.2	598.0	600.8
55°	547.8	543.6	539.5	537.3	536.0	537.3	542.9	544.2	547.8	549.8	551.8
57.5°	493.4	490.3	487.0	485.8	485.5	487.4	490.4	494.5	495.3	501.7	504.8
60°	457.7	452.8	450.1	450.1	448.8	454.9	453.5	460.4	461.8	466.0	470.7
62.5°	420.8	414.3	413.2	413.2	415.3	417.0	418.9	421.9	425.6	430.7	434.4
65°	361.4	358.0	362.8	362.1	360.8	364.9	364.9	368.3	372.4	377.3	384.9
67.5°	305.3	303.5	303.9	303.9	306.0	308.3	310.2	313.3	318.2	323.3	328.2
70°	267.3	269.4	266.0	268.7	270.7	271.5	272.9	276.9	282.5	285.9	291.3
72.5°	230.5	230.4	230.8	231.9	233.9	235.2	236.5	241.3	247.2	250.1	254.6
75°	177.3	176.6	178.6	178.6	182.1	183.5	184.9	186.9	192.4	196.5	200.0
77.5°	129.5	130.3	129.9	132.2	131.3	131.5	135.8	137.8	138.5	146.5	148.3
80°	97.6	99.0	99.7	100.4	101.0	99.7	104.4	106.5	106.5	111.3	114.7
82.5°	70.1	70.9	72.7	73.4	73.5	74.9	75.3	76.9	78.5	80.6	85.0
85°	35.0	37.1	37.8	37.1	37.8	36.5	38.5	39.2	39.9	39.9	39.9
87.5°	13.0	14.0	14.0	15.2	15.2	16.4	16.6	15.7	15.9	17.7	15.6
90°	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0	26.9	27.8	28.5
92.5°	30.5	32.1	33.7	35.3	37.1	38.7	39.4	40.2	40.9	41.6	41.8
95°	65.7	67.5	69.2	71.0	72.8	74.6	75.5	76.3	77.3	78.2	78.7
97.5°	110.3	111.5	112.8	114.1	115.4	116.7	117.8	118.8	119.9	120.9	121.3
100°	142.5	143.7	144.8	145.9	147.0	148.1	148.9	149.6	150.2	150.9	151.5
102.5°	176.6	177.7	179.3	180.7	182.2	183.7	184.3	185.0	185.7	186.3	186.6
105°	228.6	229.8	231.9	233.9	235.9	237.9	237.9	237.9	237.9	237.9	238.1
107.5°	290.0	290.5	291.3	292.2	293.0	293.8	294.5	295.2	295.9	296.6	296.8
110°	329.4	329.8	330.3	330.7	331.2	331.6	332.5	333.5	334.4	335.3	335.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	369.0	369.2	369.3	369.4	369.5	369.5	370.6	371.7	372.7	373.9	374.4
115°	431.1	431.2	430.8	430.3	429.9	429.4	429.7	429.9	430.1	430.3	430.3
117.5°	491.1	491.0	490.5	489.9	489.3	488.7	488.7	488.6	488.6	488.6	488.2
120°	532.6	532.7	531.6	530.5	529.4	528.3	528.0	527.8	527.6	527.4	526.9
122.5°	570.7	570.9	570.3	569.7	569.2	568.6	567.9	567.3	566.8	566.2	565.6
125°	629.7	629.9	629.3	628.9	628.4	628.0	627.1	626.2	625.3	624.4	623.5
127.5°	688.4	688.8	688.3	687.9	687.4	686.9	685.6	684.4	683.2	681.9	680.8
130°	726.9	727.5	726.8	726.1	725.5	724.8	723.9	723.0	722.1	721.2	719.9
132.5°	764.1	764.7	764.2	763.7	763.2	762.7	761.6	760.5	759.5	758.4	757.3
135°	818.9	819.4	819.2	819.0	818.8	818.5	817.7	816.8	815.9	815.0	814.3
137.5°	870.4	871.2	871.8	872.4	873.0	873.5	872.6	871.7	870.8	869.8	868.9
140°	906.7	907.4	907.6	907.8	908.1	908.3	908.1	907.8	907.6	907.4	906.5
142.5°	939.8	940.5	940.9	941.3	941.7	942.1	941.9	941.7	941.5	941.2	940.5
145°	988.7	989.3	989.9	990.6	991.3	991.9	991.7	991.5	991.3	991.0	990.5
147.5°	1035.3	1036.0	1036.6	1037.2	1037.8	1038.5	1038.5	1038.5	1038.5	1038.5	1037.8
150°	1065.3	1065.7	1066.2	1066.6	1067.1	1067.5	1067.5	1067.5	1067.5	1067.5	1066.8
152.5°	1091.8	1092.3	1092.6	1092.8	1093.1	1093.4	1093.7	1094.1	1094.4	1094.8	1094.4
155°	1130.0	1130.1	1130.3	1130.5	1130.8	1131.0	1132.0	1132.9	1133.8	1134.6	1134.3
157.5°	1163.7	1163.6	1163.8	1164.0	1164.2	1164.3	1165.3	1166.2	1167.1	1168.1	1167.9
160°	1184.7	1184.5	1184.5	1184.5	1184.5	1184.5	1185.6	1186.7	1187.8	1188.9	1189.0
162.5°	1203.4	1203.2	1203.3	1203.5	1203.7	1203.9	1205.0	1206.1	1207.2	1208.3	1208.1
165°	1228.2	1227.8	1227.8	1227.8	1227.8	1227.8	1229.1	1230.5	1231.8	1233.1	1233.0
167.5°	1247.2	1246.9	1247.1	1247.2	1247.4	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1
170°	1258.5	1258.1	1258.1	1258.1	1258.1	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4
172.5°	1267.4	1266.9	1266.9	1266.9	1266.9	1266.9	1268.3	1269.7	1271.1	1272.4	1272.4
175°	1276.7	1276.2	1276.2	1276.2	1276.2	1276.2	1277.6	1278.9	1280.2	1281.6	1281.4
177.5°	1281.2	1280.8	1280.8	1280.8	1280.8	1280.8	1281.9	1283.0	1284.0	1285.2	1285.1
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



TEST NUMBER: P332028-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1356.2	1355.7	1359.6	1356.9	1359.6	1355.7	1356.2	1360.1	1361.2	1361.8	1361.8
5°	1262.4	1264.5	1257.6	1257.6	1257.6	1264.5	1262.4	1266.5	1269.9	1272.7	1276.9
7.5°	1178.8	1175.8	1176.1	1172.4	1176.1	1175.8	1178.8	1182.1	1186.5	1192.5	1198.2
10°	1127.7	1123.6	1122.2	1122.9	1122.2	1123.6	1127.7	1136.0	1138.7	1144.2	1150.3
12.5°	1085.4	1084.6	1075.5	1075.6	1075.5	1084.6	1085.4	1087.5	1093.6	1105.2	1112.5
15°	1035.6	1022.6	1021.2	1025.3	1021.2	1022.6	1035.6	1035.6	1038.3	1047.3	1051.5
17.5°	985.7	978.9	979.3	977.2	979.3	978.9	985.7	986.8	989.1	996.3	1001.8
20°	959.4	955.2	954.5	949.7	954.5	955.2	959.4	959.4	962.1	965.5	971.0
22.5°	935.1	933.8	934.2	928.9	934.2	933.8	935.1	936.8	939.6	941.9	945.7
25°	905.0	908.5	905.7	905.7	905.7	908.5	905.0	905.7	906.5	909.9	912.6
27.5°	884.7	884.5	883.2	883.2	883.2	884.5	884.7	883.0	882.2	881.0	880.4
30°	869.3	868.6	870.0	870.0	870.0	868.6	869.3	866.6	865.2	864.5	861.7
32.5°	853.9	854.9	855.2	855.7	855.2	854.9	853.9	850.6	848.2	846.4	844.1
35°	830.1	830.8	832.9	831.5	832.9	830.8	830.1	826.1	823.2	819.1	815.7
37.5°	798.0	801.1	800.4	801.5	800.4	801.1	798.0	796.8	794.0	790.8	786.9
40°	773.8	775.9	775.2	775.2	775.2	775.9	773.8	773.2	770.3	768.3	764.9
42.5°	749.0	750.5	748.8	747.7	748.8	750.5	749.0	747.8	746.2	742.5	738.5
45°	708.5	707.1	709.2	706.4	709.2	707.1	708.5	705.8	705.1	702.4	698.9
47.5°	663.2	664.5	665.1	667.1	665.1	664.5	663.2	663.4	659.5	657.9	656.8
50°	632.9	637.0	637.0	636.3	637.0	637.0	632.9	631.6	628.7	626.0	626.0
52.5°	603.2	605.1	607.9	607.7	607.9	605.1	603.2	600.8	598.0	594.2	593.1
55°	557.3	558.7	560.1	560.8	560.1	558.7	557.3	551.8	549.8	547.8	544.2
57.5°	509.8	509.2	512.5	513.5	512.5	509.2	509.8	504.8	501.7	495.3	494.5
60°	476.3	476.3	481.7	483.8	481.7	476.3	476.3	470.7	466.0	461.8	460.4
62.5°	440.5	442.7	448.2	445.4	448.2	442.7	440.5	434.4	430.7	425.6	421.9
65°	388.3	393.7	393.0	395.9	393.0	393.7	388.3	384.9	377.3	372.4	368.3
67.5°	333.7	337.1	342.0	342.5	342.0	337.1	333.7	328.2	323.3	318.2	313.3
70°	296.9	300.3	303.1	305.1	303.1	300.3	296.9	291.3	285.9	282.5	276.9
72.5°	261.2	263.0	269.5	266.6	269.5	263.0	261.2	254.6	250.1	247.2	241.3
75°	204.8	209.5	213.7	211.7	213.7	209.5	204.8	200.0	196.5	192.4	186.9
77.5°	151.5	156.2	158.1	156.4	158.1	156.2	151.5	148.3	146.5	138.5	137.8
80°	119.6	118.9	123.0	122.3	123.0	118.9	119.6	114.7	111.3	106.5	106.5
82.5°	87.7	87.1	89.0	89.4	89.0	87.1	87.7	85.0	80.6	78.5	76.9
85°	42.6	44.6	41.9	41.2	41.9	44.6	42.6	39.9	39.9	39.9	39.2
87.5°	15.7	15.8	15.3	14.8	15.3	15.8	15.7	15.6	17.7	15.9	15.7
90°	28.9	29.4	29.8	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0
92.5°	41.5	41.3	41.0	40.7	41.0	41.3	41.5	41.8	41.6	40.9	40.2
95°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.2	77.3	76.3
97.5°	121.3	121.2	121.1	121.0	121.1	121.2	121.3	121.3	120.9	119.9	118.8
100°	151.9	152.3	152.8	153.2	152.8	152.3	151.9	151.5	150.9	150.2	149.6
102.5°	186.5	186.4	186.4	186.3	186.4	186.4	186.5	186.6	186.3	185.7	185.0
105°	238.5	239.0	239.4	239.9	239.4	239.0	238.5	238.1	237.9	237.9	237.9
107.5°	296.6	296.3	296.0	295.8	296.0	296.3	296.6	296.8	296.6	295.9	295.2
110°	335.0	334.6	334.2	333.7	334.2	334.6	335.0	335.5	335.3	334.4	333.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	374.3	374.2	374.1	374.0	374.1	374.2	374.3	374.4	373.9	372.7	371.7
115°	430.1	429.9	429.7	429.4	429.7	429.9	430.1	430.3	430.3	430.1	429.9
117.5°	487.6	487.0	486.4	485.6	486.4	487.0	487.6	488.2	488.6	488.6	488.6
120°	526.5	526.1	525.6	525.2	525.6	526.1	526.5	526.9	527.4	527.6	527.8
122.5°	565.0	564.3	563.7	563.1	563.7	564.3	565.0	565.6	566.2	566.8	567.3
125°	622.7	621.8	620.9	620.0	620.9	621.8	622.7	623.5	624.4	625.3	626.2
127.5°	679.7	678.6	677.6	676.6	677.6	678.6	679.7	680.8	681.9	683.2	684.4
130°	718.4	716.8	715.3	713.7	715.3	716.8	718.4	719.9	721.2	722.1	723.0
132.5°	756.1	754.9	753.7	752.5	753.7	754.9	756.1	757.3	758.4	759.5	760.5
135°	813.9	813.3	812.9	812.5	812.9	813.3	813.9	814.3	815.0	815.9	816.8
137.5°	868.1	867.2	866.4	865.6	866.4	867.2	868.1	868.9	869.8	870.8	871.7
140°	904.9	903.3	901.8	900.2	901.8	903.3	904.9	906.5	907.4	907.6	907.8
142.5°	939.3	938.1	936.9	935.6	936.9	938.1	939.3	940.5	941.2	941.5	941.7
145°	989.6	988.7	987.7	986.8	987.7	988.7	989.6	990.5	991.0	991.3	991.5
147.5°	1036.5	1035.1	1033.8	1032.5	1033.8	1035.1	1036.5	1037.8	1038.5	1038.5	1038.5
150°	1065.5	1064.2	1062.8	1061.5	1062.8	1064.2	1065.5	1066.8	1067.5	1067.5	1067.5
152.5°	1093.2	1092.1	1090.9	1089.7	1090.9	1092.1	1093.2	1094.4	1094.8	1094.4	1094.1
155°	1132.8	1131.1	1129.5	1128.0	1129.5	1131.1	1132.8	1134.3	1134.6	1133.8	1132.9
157.5°	1166.7	1165.4	1164.2	1162.9	1164.2	1165.4	1166.7	1167.9	1168.1	1167.1	1166.2
160°	1188.2	1187.3	1186.4	1185.5	1186.4	1187.3	1188.2	1189.0	1188.9	1187.8	1186.7
162.5°	1206.7	1205.3	1203.9	1202.4	1203.9	1205.3	1206.7	1208.1	1208.3	1207.2	1206.1
165°	1231.5	1229.9	1228.4	1226.8	1228.4	1229.9	1231.5	1233.0	1233.1	1231.8	1230.5
167.5°	1251.7	1250.3	1249.0	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1	1251.7	1250.3
170°	1262.7	1261.2	1259.6	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4	1262.7	1261.2
172.5°	1270.8	1269.3	1267.7	1266.1	1267.7	1269.3	1270.8	1272.4	1272.4	1271.1	1269.7
175°	1279.9	1278.3	1276.8	1275.2	1276.8	1278.3	1279.9	1281.4	1281.6	1280.2	1278.9
177.5°	1283.8	1282.5	1281.3	1280.0	1281.3	1282.5	1283.8	1285.1	1285.2	1284.0	1283.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1360.1	1360.1	1370.6	1377.2	1385.4	1390.9	1394.7	1398.6	1405.2	1414.0	1423.9
5°	1282.3	1285.1	1300.2	1315.3	1329.8	1342.1	1352.4	1364.8	1379.9	1398.5	1419.1
7.5°	1207.0	1217.6	1232.8	1251.2	1271.4	1289.5	1307.8	1328.1	1349.4	1376.7	1405.6
10°	1158.6	1170.3	1188.8	1212.2	1233.6	1254.9	1277.5	1299.5	1326.3	1358.6	1395.7
12.5°	1116.3	1127.4	1146.5	1172.0	1192.3	1215.8	1241.7	1270.4	1300.5	1339.4	1381.4
15°	1057.6	1070.7	1094.0	1106.4	1137.3	1165.5	1189.5	1230.8	1269.3	1309.1	1358.0
17.5°	1009.5	1016.8	1035.7	1058.7	1081.8	1113.4	1144.9	1179.2	1217.6	1266.4	1327.4
20°	976.5	982.7	1003.3	1027.3	1052.1	1081.0	1109.1	1143.5	1186.8	1238.3	1304.3
22.5°	951.8	958.5	972.0	997.6	1020.8	1044.7	1072.9	1113.8	1159.8	1210.3	1281.8
25°	916.0	920.2	929.1	949.7	970.4	997.1	1021.9	1060.4	1107.8	1166.9	1238.3
27.5°	882.1	886.1	893.5	908.4	927.6	949.3	976.2	1009.0	1057.0	1121.3	1197.1
30°	861.7	862.4	869.3	883.0	899.6	917.5	942.2	979.3	1024.6	1089.9	1169.6
32.5°	844.1	841.5	846.3	856.7	872.6	890.5	910.8	947.4	991.1	1055.3	1137.2
35°	814.4	812.9	810.9	819.8	833.5	847.3	865.2	892.7	942.2	1002.0	1087.8
37.5°	784.0	780.6	777.0	781.0	791.8	806.1	821.6	846.1	888.7	954.5	1036.7
40°	761.4	758.7	756.6	755.3	764.9	778.6	790.3	813.6	853.5	916.0	997.1
42.5°	736.7	735.1	732.5	730.5	738.5	748.9	761.1	781.7	821.6	880.3	957.0
45°	696.8	695.5	694.1	692.7	697.5	707.1	716.8	731.8	766.2	823.2	892.7
47.5°	652.5	650.7	651.2	649.0	653.7	660.1	666.8	683.1	716.1	762.1	812.8
50°	620.6	619.9	619.9	619.9	621.3	628.7	635.0	647.3	677.6	723.7	760.0
52.5°	590.3	587.4	587.4	588.5	591.0	595.8	599.8	613.3	639.6	677.4	710.5
55°	542.9	537.3	536.0	537.3	539.5	543.6	547.8	558.7	581.4	609.6	628.7
57.5°	490.4	487.4	485.5	485.8	487.0	490.3	493.4	505.3	523.2	538.0	550.3
60°	453.5	454.9	448.8	450.1	450.1	452.8	457.7	465.2	480.4	490.7	503.0
62.5°	418.9	417.0	415.3	413.2	413.2	414.3	420.8	426.8	439.7	445.0	454.6
65°	364.9	364.9	360.8	362.1	362.8	358.0	361.4	368.3	376.6	378.7	387.6
67.5°	310.2	308.3	306.0	303.9	303.9	303.5	305.3	308.7	314.9	315.6	322.4
70°	272.9	271.5	270.7	268.7	266.0	269.4	267.3	270.7	274.2	274.9	279.0
72.5°	236.5	235.2	233.9	231.9	230.8	230.4	230.5	234.5	236.8	235.8	240.5
75°	184.9	183.5	182.1	178.6	178.6	176.6	177.3	180.1	182.8	180.8	184.9
77.5°	135.8	131.5	131.3	132.2	129.9	130.3	129.5	129.1	130.3	130.5	134.1
80°	104.4	99.7	101.0	100.4	99.7	99.0	97.6	98.3	99.0	99.7	101.7
82.5°	75.3	74.9	73.5	73.4	72.7	70.9	70.1	71.3	72.0	71.6	73.1
85°	38.5	36.5	37.8	37.1	37.8	37.1	35.0	35.0	36.5	35.7	37.1
87.5°	16.6	16.4	15.2	15.2	14.0	14.0	13.0	13.1	13.2	12.7	13.4
90°	25.0	24.2	21.3	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0
92.5°	39.4	38.7	37.1	35.3	33.7	32.1	30.5	29.0	27.5	26.0	24.4
95°	75.5	74.6	72.8	71.0	69.2	67.5	65.7	64.2	62.6	61.0	59.5
97.5°	117.8	116.7	115.4	114.1	112.8	111.5	110.3	109.2	108.0	106.8	105.6
100°	148.9	148.1	147.0	145.9	144.8	143.7	142.5	141.1	139.8	138.5	137.1
102.5°	184.3	183.7	182.2	180.7	179.3	177.7	176.6	175.8	175.0	174.2	173.4
105°	237.9	237.9	235.9	233.9	231.9	229.8	228.6	228.1	227.7	227.2	226.8
107.5°	294.5	293.8	293.0	292.2	291.3	290.5	290.0	289.7	289.4	289.2	288.9
110°	332.5	331.6	331.2	330.7	330.3	329.8	329.4	328.9	328.5	328.1	327.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	370.6	369.5	369.5	369.4	369.3	369.2	369.0	368.7	368.5	368.2	367.9
115°	429.7	429.4	429.9	430.3	430.8	431.2	431.1	430.4	429.8	429.1	428.4
117.5°	488.7	488.7	489.3	489.9	490.5	491.0	491.1	490.7	490.2	489.8	489.3
120°	528.0	528.3	529.4	530.5	531.6	532.7	532.6	531.3	529.9	528.6	527.3
122.5°	567.9	568.6	569.2	569.7	570.3	570.9	570.7	569.7	568.7	567.7	566.7
125°	627.1	628.0	628.4	628.9	629.3	629.9	629.7	629.0	628.3	627.7	627.0
127.5°	685.6	686.9	687.4	687.9	688.3	688.8	688.4	686.9	685.5	684.1	682.7
130°	723.9	724.8	725.5	726.1	726.8	727.5	726.9	725.1	723.4	721.5	719.7
132.5°	761.6	762.7	763.2	763.7	764.2	764.7	764.1	762.2	760.4	758.6	756.9
135°	817.7	818.5	818.8	819.0	819.2	819.4	818.9	817.5	816.2	814.9	813.5
137.5°	872.6	873.5	873.0	872.4	871.8	871.2	870.4	869.3	868.2	867.1	866.0
140°	908.1	908.3	908.1	907.8	907.6	907.4	906.7	905.5	904.4	903.3	902.2
142.5°	941.9	942.1	941.7	941.3	940.9	940.5	939.8	938.7	937.6	936.3	935.2
145°	991.7	991.9	991.3	990.6	989.9	989.3	988.7	988.3	987.7	987.3	986.8
147.5°	1038.5	1038.5	1037.8	1037.2	1036.6	1036.0	1035.3	1034.5	1033.7	1032.9	1032.1
150°	1067.5	1067.5	1067.1	1066.6	1066.2	1065.7	1065.3	1064.8	1064.4	1064.0	1063.5
152.5°	1093.7	1093.4	1093.1	1092.8	1092.6	1092.3	1091.8	1091.2	1090.6	1089.9	1089.3
155°	1132.0	1131.0	1130.8	1130.5	1130.3	1130.1	1130.0	1130.0	1130.0	1130.0	1130.0
157.5°	1165.3	1164.3	1164.2	1164.0	1163.8	1163.6	1163.7	1163.9	1164.2	1164.5	1164.7
160°	1185.6	1184.5	1184.5	1184.5	1184.5	1184.5	1184.7	1185.2	1185.6	1186.0	1186.5
162.5°	1205.0	1203.9	1203.7	1203.5	1203.3	1203.2	1203.4	1204.0	1204.6	1205.2	1205.9
165°	1229.1	1227.8	1227.8	1227.8	1227.8	1227.8	1228.2	1228.8	1229.5	1230.1	1230.8
167.5°	1249.0	1247.6	1247.4	1247.2	1247.1	1246.9	1247.2	1248.1	1249.0	1249.9	1250.8
170°	1259.6	1258.1	1258.1	1258.1	1258.1	1258.1	1258.5	1259.4	1260.3	1261.2	1262.1
172.5°	1268.3	1266.9	1266.9	1266.9	1266.9	1266.9	1267.4	1268.3	1269.2	1270.1	1270.9
175°	1277.6	1276.2	1276.2	1276.2	1276.2	1276.2	1276.7	1277.6	1278.4	1279.3	1280.2
177.5°	1281.9	1280.8	1280.8	1280.8	1280.8	1280.8	1281.2	1281.9	1282.6	1283.3	1284.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1427.1	1430.0	1439.3	1445.9	1453.6	1457.9	1462.4	1465.7	1470.1	1471.2	1487.1
5°	1433.5	1447.2	1471.3	1489.1	1511.2	1535.2	1551.7	1559.2	1579.2	1595.7	1628.7
7.5°	1431.7	1461.0	1497.3	1534.9	1575.4	1612.8	1645.2	1683.6	1711.0	1752.1	1792.6
10°	1430.1	1469.3	1516.0	1564.1	1620.4	1672.6	1719.4	1771.6	1814.9	1872.0	1920.8
12.5°	1425.1	1472.6	1537.4	1594.3	1662.7	1734.7	1804.0	1871.1	1909.5	2004.5	2049.4
15°	1412.9	1469.3	1550.3	1636.9	1731.1	1816.2	1904.2	1974.4	2087.7	2170.9	2223.8
17.5°	1389.6	1468.4	1564.6	1669.1	1783.5	1895.8	1995.5	2101.9	2222.1	2322.8	2429.9
20°	1378.6	1465.1	1572.4	1687.8	1806.6	1933.8	2047.2	2175.0	2306.2	2405.2	2542.6
22.5°	1358.2	1456.3	1571.8	1700.4	1827.6	1959.0	2091.7	2220.6	2372.3	2508.6	2639.4
25°	1324.9	1434.9	1554.5	1698.1	1847.2	1979.1	2137.9	2309.1	2467.1	2642.3	2772.9
27.5°	1290.0	1407.3	1527.2	1660.8	1821.2	1977.8	2177.5	2370.9	2564.0	2715.4	2812.1
30°	1263.0	1377.2	1500.9	1635.6	1794.3	1980.5	2203.8	2414.8	2603.1	2733.0	2787.3
32.5°	1234.0	1349.7	1459.1	1600.3	1769.6	1978.8	2220.4	2440.6	2605.4	2691.8	2681.2
35°	1188.2	1285.1	1391.6	1527.6	1727.0	1966.8	2230.0	2443.0	2544.1	2525.5	2385.3
37.5°	1122.2	1203.7	1308.6	1457.5	1677.5	1941.4	2210.7	2370.6	2364.0	2212.9	2009.8
40°	1081.0	1150.3	1251.4	1408.1	1639.0	1924.9	2180.5	2284.3	2196.4	1985.3	1742.0
42.5°	1027.1	1091.0	1192.0	1353.1	1596.7	1891.3	2122.7	2152.8	1980.7	1738.0	1515.0
45°	943.5	999.9	1104.3	1270.6	1533.2	1818.4	1981.9	1908.3	1676.8	1425.9	1256.2
47.5°	853.7	912.3	1012.8	1183.7	1441.4	1708.5	1786.5	1630.0	1392.3	1188.8	1033.0
50°	797.2	853.5	951.8	1124.3	1379.2	1618.4	1650.6	1448.7	1230.1	1051.5	923.6
52.5°	740.0	793.0	889.7	1062.7	1306.7	1513.9	1494.0	1288.1	1087.1	934.8	834.6
55°	654.9	705.1	797.2	959.4	1181.3	1345.5	1273.4	1076.8	910.6	792.3	716.1
57.5°	578.8	626.8	706.3	852.8	1045.8	1158.6	1066.8	901.2	769.0	678.0	621.1
60°	527.0	569.7	645.3	781.3	949.1	1034.9	944.2	797.9	686.5	613.7	562.8
62.5°	478.2	515.2	585.3	708.8	854.4	926.7	834.9	710.9	616.1	551.6	508.4
65°	404.0	437.8	499.6	595.8	715.4	763.5	684.5	584.1	510.6	462.5	433.6
67.5°	336.5	365.1	418.5	494.2	582.2	617.2	557.0	479.4	424.0	385.4	362.4
70°	291.3	316.1	358.0	423.3	503.0	529.9	473.5	409.6	369.0	338.1	316.8
72.5°	253.5	271.6	309.6	360.1	426.6	447.9	408.6	352.4	314.6	291.3	274.5
75°	193.1	208.2	233.0	273.5	319.5	331.9	302.4	267.3	241.9	225.4	212.4
77.5°	139.3	150.4	168.2	193.3	225.1	236.3	217.5	194.2	175.6	164.5	157.2
80°	105.1	114.1	129.2	149.8	169.1	175.2	164.2	146.3	133.3	127.1	121.0
82.5°	77.7	82.7	91.8	105.8	119.1	126.3	116.9	106.2	99.3	93.6	91.3
85°	39.2	41.9	46.0	51.5	59.8	62.5	59.1	56.4	52.2	48.8	48.8
87.5°	14.9	15.3	17.5	19.1	21.7	23.9	24.0	23.5	23.5	23.1	22.8
90°	3.2	5.5	7.8	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0
92.5°	26.0	27.5	29.0	30.5	32.1	33.7	35.3	37.1	38.7	39.4	40.2
95°	61.0	62.6	64.2	65.7	67.5	69.2	71.0	72.8	74.6	75.5	76.3
97.5°	106.8	108.0	109.2	110.3	111.5	112.8	114.1	115.4	116.7	117.8	118.8
100°	138.5	139.8	141.1	142.5	143.7	144.8	145.9	147.0	148.1	148.9	149.6
102.5°	174.2	175.0	175.8	176.6	177.7	179.3	180.7	182.2	183.7	184.3	185.0
105°	227.2	227.7	228.1	228.6	229.8	231.9	233.9	235.9	237.9	237.9	237.9
107.5°	289.2	289.4	289.7	290.0	290.5	291.3	292.2	293.0	293.8	294.5	295.2
110°	328.1	328.5	328.9	329.4	329.8	330.3	330.7	331.2	331.6	332.5	333.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	368.2	368.5	368.7	369.0	369.2	369.3	369.4	369.5	369.5	370.6	371.7
115°	429.1	429.8	430.4	431.1	431.2	430.8	430.3	429.9	429.4	429.7	429.9
117.5°	489.8	490.2	490.7	491.1	491.0	490.5	489.9	489.3	488.7	488.7	488.6
120°	528.6	529.9	531.3	532.6	532.7	531.6	530.5	529.4	528.3	528.0	527.8
122.5°	567.7	568.7	569.7	570.7	570.9	570.3	569.7	569.2	568.6	567.9	567.3
125°	627.7	628.3	629.0	629.7	629.9	629.3	628.9	628.4	628.0	627.1	626.2
127.5°	684.1	685.5	686.9	688.4	688.8	688.3	687.9	687.4	686.9	685.6	684.4
130°	721.5	723.4	725.1	726.9	727.5	726.8	726.1	725.5	724.8	723.9	723.0
132.5°	758.6	760.4	762.2	764.1	764.7	764.2	763.7	763.2	762.7	761.6	760.5
135°	814.9	816.2	817.5	818.9	819.4	819.2	819.0	818.8	818.5	817.7	816.8
137.5°	867.1	868.2	869.3	870.4	871.2	871.8	872.4	873.0	873.5	872.6	871.7
140°	903.3	904.4	905.5	906.7	907.4	907.6	907.8	908.1	908.3	908.1	907.8
142.5°	936.3	937.6	938.7	939.8	940.5	940.9	941.3	941.7	942.1	941.9	941.7
145°	987.3	987.7	988.3	988.7	989.3	989.9	990.6	991.3	991.9	991.7	991.5
147.5°	1032.9	1033.7	1034.5	1035.3	1036.0	1036.6	1037.2	1037.8	1038.5	1038.5	1038.5
150°	1064.0	1064.4	1064.8	1065.3	1065.7	1066.2	1066.6	1067.1	1067.5	1067.5	1067.5
152.5°	1089.9	1090.6	1091.2	1091.8	1092.3	1092.6	1092.8	1093.1	1093.4	1093.7	1094.1
155°	1130.0	1130.0	1130.0	1130.0	1130.1	1130.3	1130.5	1130.8	1131.0	1132.0	1132.9
157.5°	1164.5	1164.2	1163.9	1163.7	1163.6	1163.8	1164.0	1164.2	1164.3	1165.3	1166.2
160°	1186.0	1185.6	1185.2	1184.7	1184.5	1184.5	1184.5	1184.5	1184.5	1185.6	1186.7
162.5°	1205.2	1204.6	1204.0	1203.4	1203.2	1203.3	1203.5	1203.7	1203.9	1205.0	1206.1
165°	1230.1	1229.5	1228.8	1228.2	1227.8	1227.8	1227.8	1227.8	1227.8	1229.1	1230.5
167.5°	1249.9	1249.0	1248.1	1247.2	1246.9	1247.1	1247.2	1247.4	1247.6	1249.0	1250.3
170°	1261.2	1260.3	1259.4	1258.5	1258.1	1258.1	1258.1	1258.1	1258.1	1259.6	1261.2
172.5°	1270.1	1269.2	1268.3	1267.4	1266.9	1266.9	1266.9	1266.9	1266.9	1268.3	1269.7
175°	1279.3	1278.4	1277.6	1276.7	1276.2	1276.2	1276.2	1276.2	1276.2	1277.6	1278.9
177.5°	1283.3	1282.6	1281.9	1281.2	1280.8	1280.8	1280.8	1280.8	1280.8	1281.9	1283.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1492.6	1493.2	1499.2	1503.6	1501.4	1504.2	1505.2
5°	1630.7	1655.5	1668.5	1678.2	1678.8	1679.5	1685.1
7.5°	1826.5	1853.1	1872.5	1901.9	1910.7	1920.8	1917.8
10°	1969.5	2008.7	2042.4	2060.2	2079.5	2107.7	2085.0
12.5°	2103.1	2172.5	2223.8	2251.6	2269.7	2275.3	2264.2
15°	2323.4	2414.2	2463.0	2461.5	2523.5	2550.2	2508.3
17.5°	2525.5	2609.2	2676.2	2710.6	2762.2	2773.6	2768.3
20°	2649.2	2740.6	2792.8	2851.9	2878.7	2902.8	2906.9
22.5°	2755.8	2837.9	2894.0	2943.2	2965.6	2977.0	2983.8
25°	2865.6	2930.2	2964.0	2981.1	2987.3	2985.9	2977.0
27.5°	2858.1	2863.1	2825.9	2789.6	2756.9	2720.3	2707.5
30°	2783.9	2726.1	2623.0	2564.7	2478.7	2410.7	2438.2
32.5°	2588.7	2473.8	2358.0	2230.4	2124.7	2094.6	2064.4
35°	2209.4	2007.3	1889.2	1751.7	1696.7	1641.7	1604.0
37.5°	1787.5	1631.1	1491.0	1401.1	1345.9	1311.2	1292.5
40°	1545.5	1404.6	1289.2	1216.4	1174.5	1135.3	1129.7
42.5°	1352.5	1221.5	1134.7	1076.7	1036.4	1019.8	1007.7
45°	1107.8	1016.3	958.0	916.8	889.9	879.6	865.9
47.5°	937.7	873.0	829.2	801.1	780.9	773.3	772.1
50°	842.5	788.9	756.6	734.6	718.8	716.1	705.1
52.5°	771.0	724.6	699.4	680.2	668.8	661.1	657.8
55°	669.3	638.4	615.7	604.7	595.8	588.2	588.2
57.5°	585.6	559.8	544.8	535.4	532.7	527.4	523.9
60°	533.9	512.0	500.3	492.0	486.6	487.3	481.0
62.5°	483.4	469.1	458.0	449.7	443.1	443.2	443.6
65°	411.6	400.6	392.4	389.6	385.6	380.7	382.1
67.5°	348.8	338.5	332.0	327.4	326.0	323.4	327.4
70°	303.8	296.2	291.3	287.2	285.9	286.6	290.0
72.5°	262.5	257.1	254.0	252.1	249.0	249.1	251.6
75°	206.1	202.1	199.2	197.2	196.5	196.5	196.5
77.5°	151.5	150.5	149.3	146.2	146.3	147.2	147.3
80°	119.6	117.5	116.8	115.4	113.4	112.0	115.4
82.5°	89.4	87.3	86.5	86.3	83.1	82.9	85.7
85°	48.1	46.0	46.8	46.0	46.0	45.3	45.3
87.5°	22.4	22.0	21.6	22.3	21.8	21.3	22.5
90°	26.9	27.8	28.5	28.9	29.4	29.8	30.2
92.5°	40.9	41.6	41.8	41.5	41.3	41.0	40.7
95°	77.3	78.2	78.7	78.7	78.7	78.7	78.7
97.5°	119.9	120.9	121.3	121.3	121.2	121.1	121.0
100°	150.2	150.9	151.5	151.9	152.3	152.8	153.2
102.5°	185.7	186.3	186.6	186.5	186.4	186.4	186.3
105°	237.9	237.9	238.1	238.5	239.0	239.4	239.9
107.5°	295.9	296.6	296.8	296.6	296.3	296.0	295.8
110°	334.4	335.3	335.5	335.0	334.6	334.2	333.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	372.7	373.9	374.4	374.3	374.2	374.1	374.0
115°	430.1	430.3	430.3	430.1	429.9	429.7	429.4
117.5°	488.6	488.6	488.2	487.6	487.0	486.4	485.6
120°	527.6	527.4	526.9	526.5	526.1	525.6	525.2
122.5°	566.8	566.2	565.6	565.0	564.3	563.7	563.1
125°	625.3	624.4	623.5	622.7	621.8	620.9	620.0
127.5°	683.2	681.9	680.8	679.7	678.6	677.6	676.6
130°	722.1	721.2	719.9	718.4	716.8	715.3	713.7
132.5°	759.5	758.4	757.3	756.1	754.9	753.7	752.5
135°	815.9	815.0	814.3	813.9	813.3	812.9	812.5
137.5°	870.8	869.8	868.9	868.1	867.2	866.4	865.6
140°	907.6	907.4	906.5	904.9	903.3	901.8	900.2
142.5°	941.5	941.2	940.5	939.3	938.1	936.9	935.6
145°	991.3	991.0	990.5	989.6	988.7	987.7	986.8
147.5°	1038.5	1038.5	1037.8	1036.5	1035.1	1033.8	1032.5
150°	1067.5	1067.5	1066.8	1065.5	1064.2	1062.8	1061.5
152.5°	1094.4	1094.8	1094.4	1093.2	1092.1	1090.9	1089.7
155°	1133.8	1134.6	1134.3	1132.8	1131.1	1129.5	1128.0
157.5°	1167.1	1168.1	1167.9	1166.7	1165.4	1164.2	1162.9
160°	1187.8	1188.9	1189.0	1188.2	1187.3	1186.4	1185.5
162.5°	1207.2	1208.3	1208.1	1206.7	1205.3	1203.9	1202.4
165°	1231.8	1233.1	1233.0	1231.5	1229.9	1228.4	1226.8
167.5°	1251.7	1253.1	1253.1	1251.7	1250.3	1249.0	1247.6
170°	1262.7	1264.4	1264.4	1262.7	1261.2	1259.6	1258.1
172.5°	1271.1	1272.4	1272.4	1270.8	1269.3	1267.7	1266.1
175°	1280.2	1281.6	1281.4	1279.9	1278.3	1276.8	1275.2
177.5°	1284.0	1285.2	1285.1	1283.8	1282.5	1281.3	1280.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2

(END OF REPORT)