

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: P333623-840

Luminaire Tested: **S125RDIP-S1270D810U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333623-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIP-S1270D810U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7802.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: Semi-Direct

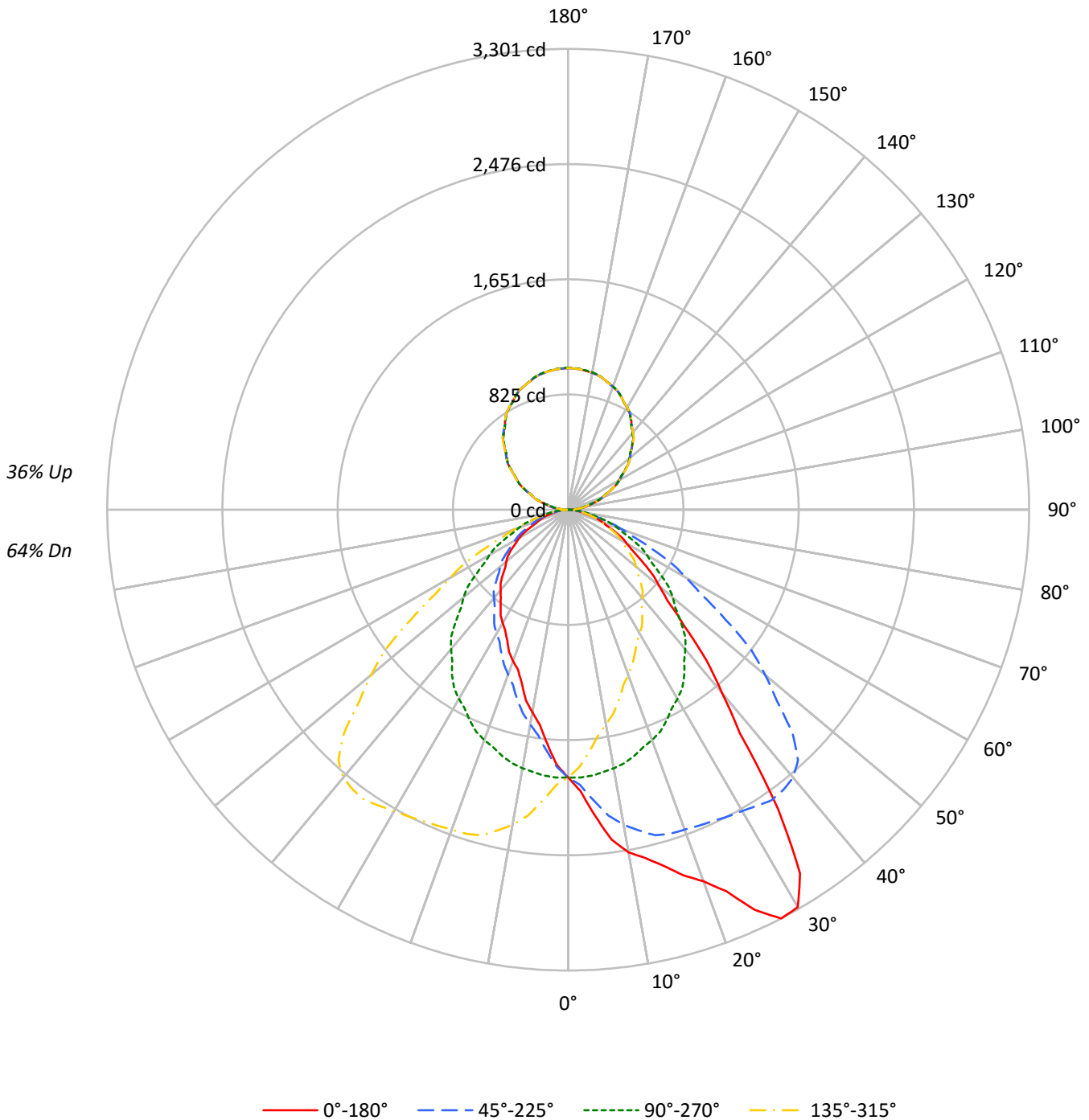
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59	55
2	93	86	79	74	87	81	75	71	71	67	64	63	60	57	55	53	51	47
3	85	76	68	63	80	71	65	60	63	58	54	56	52	49	49	46	44	40
4	78	67	59	53	73	64	56	51	57	51	47	50	46	42	44	41	38	35
5	72	60	52	46	67	57	50	44	51	45	40	45	40	37	40	36	33	30
6	66	54	46	40	62	51	44	39	46	40	36	41	36	32	36	32	29	27
7	61	49	41	35	58	47	39	34	42	36	31	37	32	29	33	29	26	24
8	57	45	37	32	54	42	35	30	38	32	28	34	29	26	30	27	24	21
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	24	21	19
10	50	38	30	25	47	36	29	25	32	27	23	29	24	21	26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12385	12385	12385	12385
5°	14249	12401	10952	12401
10°	16344	12338	9664	12338
15°	17653	12211	8590	12211
20°	19467	12065	7932	12065
25°	22528	11870	7360	11870
30°	24515	11665	6986	11665
35°	20679	11427	6641	11427
40°	14441	10997	6345	10997
45°	10714	10418	6054	10418
50°	8542	9815	5805	9815
55°	7250	9067	5584	9067
60°	6263	8400	5227	8400
65°	5582	7674	4499	7674
70°	4904	7030	4101	7030
75°	4245	6089	3850	6089
80°	3217	5121	3217	5121
85°	2690	4024	3031	4024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	2.4
10°-20°	538.9	6.9
20°-30°	854.5	11.0
30°-40°	1030.4	13.2
40°-50°	920.2	11.8
50°-60°	705.7	9.0
60°-70°	458.6	5.9
70°-80°	223.0	2.9
80°-90°	55.4	0.7
90°-100°	68.0	0.9
100°-110°	200.7	2.6
110°-120°	339.9	4.4
120°-130°	447.4	5.7
130°-140°	501.3	6.4
140°-150°	491.3	6.3
150°-160°	412.7	5.3
160°-170°	274.3	3.5
170°-180°	96.0	1.2
0°-30°	1577.3	20.2
0°-40°	2607.7	33.4
0°-60°	4233.5	54.3
0°-90°	4970.5	63.7
90°-120°	608.6	7.8
90°-150°	2048.6	26.3
90°-180°	2832.0	36.3
0°-180°	7802.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1918	1918	1918	1918	1918	
5°	2198	1913	1689	1913	2198	220
15°	2640	1826	1285	1826	2640	757
25°	3161	1666	1033	1666	3161	1452
35°	2623	1449	842	1449	2623	1584
45°	1173	1141	663	1141	1173	936
55°	644	805	496	805	644	584
65°	365	502	294	502	365	363
75°	170	244	154	244	170	181
85°	36	54	41	54	36	42
90°	19	1	19	1	19	13
95°	68	51	68	51	68	69
105°	196	180	196	180	196	207
115°	344	340	344	340	344	340
125°	500	497	500	497	500	446
135°	648	646	648	646	648	500
145°	786	782	786	782	786	490
155°	895	895	895	895	895	412
165°	971	974	971	974	971	274
175°	1008	1012	1008	1012	1008	96
180°	1015	1015	1015	1015	1015	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	2017.1	2015.9	2018.4	2011.4	2012.1	2001.4	2001.4	1993.2	1982.5	1974.3	1970.5
5°	2197.9	2199.5	2196.3	2184.4	2176.7	2164.8	2151.4	2127.8	2108.1	2089.2	2074.3
7.5°	2384.0	2385.1	2374.7	2371.1	2351.2	2336.7	2306.9	2274.8	2246.3	2210.2	2182.4
10°	2492.2	2491.5	2480.4	2471.8	2454.5	2432.5	2403.4	2365.5	2330.2	2290.8	2253.0
12.5°	2555.3	2553.2	2549.7	2539.2	2523.1	2503.7	2478.9	2441.8	2398.1	2355.0	2310.9
15°	2640.3	2634.7	2624.5	2611.1	2588.3	2565.5	2537.9	2504.9	2463.2	2414.4	2373.4
17.5°	2745.4	2745.6	2729.9	2711.3	2680.3	2640.0	2597.5	2544.1	2487.4	2433.7	2390.1
20°	2832.4	2829.9	2814.3	2778.0	2742.6	2692.2	2643.4	2578.1	2508.8	2438.7	2384.4
22.5°	2957.1	2950.9	2934.6	2887.0	2832.1	2767.1	2692.5	2612.7	2529.0	2449.4	2378.1
25°	3161.4	3156.6	3124.4	3069.3	2992.1	2892.2	2794.6	2685.1	2564.8	2460.0	2373.4
27.5°	3301.2	3296.0	3272.1	3226.3	3155.1	3049.9	2917.8	2771.6	2621.2	2477.2	2352.3
30°	3287.3	3299.1	3296.0	3274.8	3221.3	3126.7	3004.8	2840.2	2661.5	2492.2	2343.5
32.5°	3089.6	3100.2	3127.9	3169.6	3172.7	3134.9	3043.8	2891.8	2706.8	2514.4	2336.5
35°	2622.9	2637.2	2690.7	2774.9	2885.1	2977.2	2996.1	2914.3	2748.1	2541.1	2326.2
37.5°	2016.5	2094.0	2139.0	2227.7	2394.2	2563.6	2726.5	2786.5	2715.8	2530.1	2309.4
40°	1712.9	1731.8	1812.1	1912.1	2052.2	2228.6	2460.8	2628.5	2633.9	2504.9	2282.9
42.5°	1466.1	1490.1	1545.1	1625.0	1744.9	1921.3	2161.0	2382.3	2484.8	2435.6	2248.3
45°	1173.0	1191.0	1231.2	1292.6	1384.7	1530.3	1736.6	1992.4	2195.5	2275.0	2155.4
47.5°	963.5	973.3	1008.2	1055.0	1123.2	1229.3	1389.0	1611.0	1854.6	2025.5	2008.6
50°	850.2	861.2	888.0	923.4	980.9	1070.6	1198.1	1383.1	1634.3	1842.8	1884.6
52.5°	762.0	771.1	787.8	821.3	868.8	937.8	1040.7	1208.0	1434.0	1655.8	1752.3
55°	643.9	650.3	663.6	682.5	720.3	769.9	858.8	974.5	1157.2	1380.8	1522.5
57.5°	546.6	549.8	558.3	575.7	601.9	638.1	702.4	800.4	931.4	1132.8	1289.1
60°	484.9	488.1	499.1	510.9	531.4	564.4	614.8	683.3	809.2	975.3	1133.6
62.5°	435.8	437.7	442.4	454.2	472.2	497.7	537.3	593.2	693.4	839.3	988.8
65°	365.3	366.1	367.6	377.1	388.1	407.0	432.9	472.3	547.9	658.1	790.3
67.5°	297.6	298.6	304.2	307.5	319.0	328.9	344.2	374.3	427.5	501.8	604.6
70°	259.7	259.0	264.5	268.4	272.4	284.2	294.4	318.8	351.8	408.6	494.3
72.5°	224.5	222.5	224.8	226.2	231.5	239.4	249.7	264.7	290.1	329.2	394.9
75°	170.1	170.9	170.9	172.4	176.3	179.5	182.6	190.5	204.7	230.7	266.1
77.5°	119.4	118.1	121.4	121.9	124.2	127.6	130.4	133.5	139.4	150.1	168.3
80°	86.5	86.5	87.4	89.8	89.0	90.5	94.4	97.7	104.7	111.0	117.2
82.5°	66.4	65.8	66.6	67.1	67.0	68.5	69.9	70.5	73.2	76.3	80.8
85°	36.3	36.3	37.0	37.0	37.8	37.8	38.6	38.6	38.6	39.4	40.2
87.5°	17.7	16.9	16.2	16.1	16.6	17.7	16.9	16.1	16.0	15.8	16.2
90°	19.0	18.4	17.9	17.4	16.9	16.2	15.2	14.3	13.5	12.6	11.4
92.5°	37.3	36.9	36.5	36.2	35.7	34.9	33.8	32.6	31.5	30.3	28.8
95°	67.9	67.6	67.3	66.9	66.6	65.7	64.5	63.2	62.0	60.8	59.1
97.5°	103.0	102.8	102.5	102.3	102.1	101.5	100.3	99.2	98.0	96.8	94.4
100°	129.5	129.2	128.8	128.5	128.2	127.1	125.5	124.0	122.4	120.8	118.6
102.5°	156.0	155.5	155.0	154.6	154.1	153.0	151.3	149.6	147.8	146.1	144.9
105°	195.8	195.3	194.8	194.3	193.7	193.0	191.9	190.9	189.8	188.7	187.6
107.5°	236.6	236.6	236.6	236.7	236.7	236.5	235.9	235.4	234.9	234.4	233.6
110°	266.9	267.1	267.2	267.4	267.6	267.4	266.9	266.4	265.9	265.3	264.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	296.6	296.9	297.2	297.5	297.9	297.9	297.6	297.4	297.2	296.9	296.3
115°	343.6	343.7	343.9	344.1	344.2	344.4	344.6	344.8	344.9	345.1	344.8
117.5°	389.3	390.0	390.7	391.4	392.1	392.4	392.2	392.1	391.9	391.8	391.5
120°	420.9	421.6	422.3	423.0	423.7	424.0	424.0	424.0	424.0	424.0	423.8
122.5°	452.5	453.0	453.6	454.1	454.7	455.0	455.2	455.3	455.4	455.7	455.1
125°	499.9	500.1	500.2	500.4	500.6	500.8	501.2	501.5	501.9	502.2	502.0
127.5°	545.3	545.7	546.0	546.4	546.7	547.0	547.1	547.3	547.5	547.8	547.5
130°	575.6	576.0	576.3	576.7	577.0	577.3	577.5	577.6	577.8	578.0	577.6
132.5°	604.1	604.6	605.1	605.6	606.0	606.4	606.5	606.7	606.9	607.1	607.1
135°	648.3	649.0	649.7	650.5	651.2	651.5	651.5	651.5	651.5	651.5	651.3
137.5°	691.6	692.5	693.4	694.2	695.1	695.4	695.2	695.0	694.8	694.6	694.2
140°	719.4	720.2	721.1	722.1	722.9	723.2	722.8	722.5	722.2	721.8	721.2
142.5°	745.9	746.8	747.7	748.5	749.4	749.7	749.5	749.3	749.1	748.9	748.2
145°	785.7	786.3	786.8	787.3	787.8	788.1	788.1	788.1	788.1	788.1	787.6
147.5°	819.7	820.9	822.0	823.2	824.5	824.9	824.5	823.9	823.5	823.1	822.7
150°	845.0	845.3	845.7	846.0	846.4	846.6	846.6	846.6	846.6	846.6	845.9
152.5°	865.8	866.5	867.1	867.7	868.3	868.4	868.0	867.6	867.2	866.8	866.5
155°	895.4	896.4	897.3	898.1	899.0	899.1	898.4	897.7	897.0	896.3	896.1
157.5°	920.3	921.4	922.6	923.7	924.9	925.1	924.4	923.7	923.0	922.3	922.1
160°	937.4	938.2	939.1	940.0	940.9	940.9	940.2	939.6	938.9	938.2	938.0
162.5°	951.9	952.9	953.9	954.9	955.9	956.0	955.2	954.3	953.5	952.7	952.6
165°	971.3	972.3	973.4	974.4	975.5	975.6	975.0	974.3	973.6	972.9	972.7
167.5°	986.7	987.8	989.0	990.1	991.1	991.2	990.1	989.1	988.0	986.9	986.9
170°	995.0	996.2	997.4	998.7	999.9	1000.0	999.0	997.8	996.8	995.7	995.7
172.5°	1001.9	1003.0	1004.1	1005.2	1006.3	1006.3	1005.2	1004.2	1003.1	1002.1	1002.1
175°	1008.5	1009.7	1010.9	1012.1	1013.3	1013.4	1012.4	1011.3	1010.3	1009.2	1009.2
177.5°	1012.2	1013.2	1014.2	1015.1	1016.1	1016.2	1015.3	1014.5	1013.7	1012.8	1013.0
180°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1970.5	1966.1	1957.9	1950.4	1941.0	1932.8	1927.0	1920.2	1911.4	1900.7	1891.8
5°	2057.7	2040.4	2017.6	1997.9	1972.8	1953.1	1932.6	1912.9	1893.2	1868.0	1846.0
7.5°	2154.4	2118.7	2083.9	2040.1	2000.4	1965.0	1931.0	1896.5	1862.8	1827.0	1792.6
10°	2213.6	2170.3	2122.3	2067.2	2016.8	1968.8	1924.7	1881.4	1835.7	1795.6	1752.3
12.5°	2269.1	2213.1	2158.2	2088.6	2028.1	1969.4	1913.4	1859.4	1810.6	1758.5	1712.0
15°	2319.1	2264.0	2202.6	2117.6	2033.4	1962.5	1896.3	1826.3	1765.6	1707.5	1655.5
17.5°	2338.4	2280.7	2209.4	2127.7	2035.6	1946.4	1861.3	1784.4	1713.1	1645.3	1586.8
20°	2330.9	2275.0	2201.8	2123.8	2025.5	1932.6	1840.5	1755.4	1676.0	1604.3	1542.2
22.5°	2312.7	2254.8	2184.1	2101.8	2008.4	1910.0	1811.5	1720.8	1637.5	1563.4	1495.5
25°	2285.2	2206.6	2134.1	2053.8	1964.9	1867.2	1765.6	1665.7	1576.8	1501.2	1427.2
27.5°	2256.7	2158.5	2066.4	1986.6	1892.6	1805.5	1707.6	1605.1	1511.6	1434.6	1358.7
30°	2230.9	2120.7	2019.1	1928.6	1839.7	1757.1	1664.2	1564.2	1468.1	1388.7	1311.5
32.5°	2198.8	2081.6	1970.0	1865.6	1779.9	1697.9	1613.8	1518.2	1424.7	1342.6	1264.3
35°	2158.5	2008.9	1887.7	1776.8	1681.4	1601.9	1526.4	1449.3	1355.5	1270.5	1194.2
37.5°	2105.6	1935.9	1795.6	1674.7	1574.3	1494.4	1434.7	1364.2	1278.7	1197.3	1126.5
40°	2073.5	1883.0	1729.5	1609.8	1504.3	1420.1	1364.2	1304.4	1226.5	1150.1	1079.2
42.5°	2030.6	1834.5	1662.7	1538.0	1431.9	1350.8	1294.3	1242.0	1176.7	1104.8	1028.9
45°	1946.7	1740.5	1560.2	1426.4	1319.4	1239.8	1187.1	1140.6	1091.1	1024.9	958.8
47.5°	1837.4	1642.4	1453.8	1307.7	1202.9	1129.0	1077.8	1041.2	1005.7	949.5	885.2
50°	1750.0	1561.9	1377.6	1235.9	1124.1	1054.1	1006.0	976.9	944.6	893.4	839.9
52.5°	1646.7	1478.6	1298.3	1153.4	1047.9	982.3	936.1	907.1	880.4	838.7	787.7
55°	1483.9	1336.7	1171.3	1039.9	943.1	877.0	832.8	805.3	789.6	754.2	714.0
57.5°	1296.1	1190.5	1044.8	918.1	832.4	767.1	734.8	711.3	693.6	668.5	640.2
60°	1165.1	1091.1	960.4	839.9	761.2	699.0	669.9	650.3	633.7	612.5	590.4
62.5°	1032.2	978.4	864.6	761.2	688.8	636.7	609.5	591.7	572.6	558.3	536.8
65°	854.1	806.1	727.4	646.3	579.4	537.7	518.0	502.2	490.4	474.6	459.7
67.5°	664.4	644.9	590.6	534.6	486.7	449.5	432.5	421.5	407.3	397.9	387.6
70°	547.9	538.5	499.9	462.9	418.0	392.8	377.1	372.3	355.1	345.6	338.5
72.5°	444.6	440.2	418.0	392.3	360.7	338.6	324.2	318.8	307.8	300.2	295.7
75°	304.7	306.2	302.3	285.8	274.0	259.7	247.2	244.0	236.2	229.8	225.9
77.5°	192.7	200.8	201.1	200.3	195.5	186.9	181.7	179.4	171.6	169.3	168.3
80°	132.3	140.9	148.8	147.9	146.4	144.1	140.2	137.7	133.8	131.5	129.9
82.5°	88.2	96.2	102.8	107.0	106.7	104.4	101.7	100.6	99.8	98.1	97.8
85°	41.7	43.3	45.6	51.2	55.1	55.8	55.1	54.3	51.9	52.7	53.5
87.5°	16.6	16.3	16.7	16.4	15.5	18.4	20.0	20.3	19.3	18.4	17.4
90°	10.2	9.0	7.7	6.4	5.0	3.6	2.2	0.8	2.2	3.6	5.0
92.5°	27.3	25.8	24.2	23.0	22.0	21.1	20.1	19.1	20.1	21.1	22.0
95°	57.3	55.5	53.8	52.7	52.4	52.0	51.7	51.3	51.7	52.0	52.4
97.5°	92.0	89.6	87.2	85.8	85.7	85.5	85.4	85.3	85.4	85.5	85.7
100°	116.2	114.0	111.7	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
102.5°	143.8	142.6	141.5	140.6	139.9	139.2	138.5	137.7	138.5	139.2	139.9
105°	186.6	185.6	184.5	183.6	182.7	181.8	181.0	180.1	181.0	181.8	182.7
107.5°	232.8	232.0	231.2	230.4	229.4	228.5	227.6	226.8	227.6	228.5	229.4
110°	264.3	263.8	263.3	262.6	261.7	260.7	259.9	259.0	259.9	260.7	261.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	295.6	294.9	294.3	293.7	293.3	292.8	292.4	291.9	292.4	292.8	293.3
115°	344.4	344.1	343.7	343.2	342.4	341.7	341.0	340.3	341.0	341.7	342.4
117.5°	391.2	390.9	390.6	390.2	389.9	389.6	389.3	389.0	389.3	389.6	389.9
120°	423.7	423.5	423.3	422.8	421.9	421.1	420.2	419.3	420.2	421.1	421.9
122.5°	454.7	454.2	453.8	453.4	453.1	452.8	452.5	452.1	452.5	452.8	453.1
125°	501.9	501.7	501.5	500.9	499.9	498.8	497.8	496.7	497.8	498.8	499.9
127.5°	547.2	547.0	546.8	546.4	545.8	545.2	544.7	544.1	544.7	545.2	545.8
130°	577.3	576.9	576.6	576.0	575.1	574.3	573.4	572.5	573.4	574.3	575.1
132.5°	607.2	607.3	607.3	606.7	605.2	603.8	602.4	601.0	602.4	603.8	605.2
135°	651.2	651.0	650.8	650.2	649.1	648.0	647.0	645.9	647.0	648.0	649.1
137.5°	693.8	693.5	693.1	692.4	691.4	690.3	689.3	688.3	689.3	690.3	691.4
140°	720.7	720.1	719.6	718.9	718.1	717.2	716.3	715.5	716.3	717.2	718.1
142.5°	747.6	746.9	746.3	745.6	744.8	744.1	743.4	742.7	743.4	744.1	744.8
145°	787.0	786.5	786.0	785.4	784.7	784.0	783.3	782.5	783.3	784.0	784.7
147.5°	822.3	821.9	821.4	821.0	820.7	820.3	819.9	819.5	819.9	820.3	820.7
150°	845.2	844.4	843.7	843.4	843.6	843.8	843.9	844.1	843.9	843.8	843.6
152.5°	866.2	865.9	865.7	865.4	865.2	864.8	864.6	864.3	864.6	864.8	865.2
155°	896.0	895.8	895.5	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4
157.5°	922.0	921.8	921.6	921.7	922.1	922.5	922.9	923.3	922.9	922.5	922.1
160°	937.8	937.6	937.5	937.6	938.2	938.7	939.2	939.7	939.2	938.7	938.2
162.5°	952.6	952.5	952.5	952.7	953.1	953.4	953.8	954.2	953.8	953.4	953.1
165°	972.5	972.3	972.2	972.3	972.6	973.0	973.3	973.7	973.3	973.0	972.6
167.5°	986.9	986.9	986.9	987.2	988.0	988.7	989.4	990.1	989.4	988.7	988.0
170°	995.7	995.7	995.7	996.1	996.8	997.5	998.3	999.0	998.3	997.5	996.8
172.5°	1002.1	1002.1	1002.1	1002.4	1003.1	1003.8	1004.5	1005.2	1004.5	1003.8	1003.1
175°	1009.2	1009.2	1009.2	1009.6	1010.3	1011.0	1011.7	1012.4	1011.7	1011.0	1010.3
177.5°	1013.1	1013.3	1013.4	1013.7	1014.3	1014.9	1015.4	1016.0	1015.4	1014.9	1014.3
180°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1885.5	1876.7	1870.4	1857.7	1849.0	1845.2	1838.3	1836.3	1843.3	1838.3	1837.7
5°	1829.5	1806.6	1788.6	1770.4	1750.7	1738.2	1719.3	1716.1	1711.4	1704.2	1702.7
7.5°	1762.2	1732.5	1709.2	1679.3	1653.3	1632.3	1608.7	1597.5	1591.4	1582.3	1570.0
10°	1716.9	1681.4	1650.0	1620.0	1587.8	1561.9	1538.2	1520.0	1508.2	1497.2	1492.6
12.5°	1672.1	1636.1	1595.8	1559.6	1523.6	1494.4	1468.2	1456.5	1443.4	1430.5	1419.5
15°	1602.8	1554.7	1510.7	1468.9	1438.2	1406.7	1381.5	1364.2	1344.5	1339.1	1317.8
17.5°	1529.0	1482.0	1430.4	1386.4	1350.8	1316.2	1288.5	1268.8	1254.1	1233.8	1224.0
20°	1483.1	1427.2	1376.8	1336.7	1297.3	1256.4	1228.0	1211.5	1197.3	1180.8	1173.0
22.5°	1434.0	1379.4	1327.7	1280.6	1240.6	1200.3	1180.1	1163.1	1146.9	1131.7	1121.3
25°	1361.9	1306.8	1252.4	1203.7	1162.0	1132.8	1109.1	1089.4	1080.9	1065.9	1054.8
27.5°	1290.5	1231.9	1175.6	1126.9	1094.2	1065.4	1046.0	1030.5	1014.8	1001.8	992.2
30°	1244.6	1184.8	1123.4	1084.8	1050.2	1022.6	1001.3	986.3	974.5	962.7	955.6
32.5°	1198.6	1136.9	1082.4	1040.7	1007.9	984.1	962.3	948.0	935.5	922.4	914.1
35°	1124.9	1062.0	1017.8	976.9	944.6	922.6	907.7	887.2	877.0	867.5	858.8
37.5°	1056.4	997.8	950.2	914.2	886.3	864.3	845.0	833.9	821.3	812.8	805.7
40°	1006.0	952.5	909.2	871.4	851.0	826.6	808.5	794.3	784.9	773.9	766.0
42.5°	960.7	911.0	868.9	835.0	809.4	788.8	771.3	757.1	745.2	737.3	730.6
45°	896.7	847.1	806.1	774.6	751.0	731.3	713.2	706.1	690.3	681.0	677.8
47.5°	830.3	786.0	746.4	717.4	693.2	674.6	657.6	643.2	634.5	625.2	620.2
50°	785.7	743.2	706.1	677.8	654.2	633.7	617.9	608.5	596.7	588.0	581.8
52.5°	740.9	701.6	664.6	637.4	617.0	596.5	579.0	569.5	558.3	552.8	548.4
55°	677.0	635.3	603.8	577.0	555.7	536.8	520.4	510.9	503.8	498.3	496.8
57.5°	604.6	571.5	542.2	518.2	496.0	478.3	463.8	454.8	448.6	447.8	443.0
60°	557.3	527.5	500.7	474.6	455.8	439.3	426.7	416.5	410.1	409.3	407.8
62.5°	510.1	481.4	456.6	433.7	416.8	400.8	388.9	377.4	373.7	369.7	366.2
65°	440.0	414.0	393.6	375.5	357.4	344.0	332.2	325.1	316.5	311.7	303.1
67.5°	371.2	351.1	331.4	316.2	301.9	289.2	279.4	268.9	263.1	259.3	253.0
70°	325.9	310.1	290.4	274.0	263.0	252.7	244.8	233.0	229.0	225.9	222.8
72.5°	283.1	269.2	252.7	239.3	228.3	218.6	209.5	204.0	200.2	196.9	195.1
75°	222.8	209.4	195.2	185.8	177.9	170.1	165.3	161.4	159.8	159.1	155.8
77.5°	163.6	156.5	145.1	137.6	132.4	129.3	125.0	123.0	122.8	119.4	118.3
80°	125.1	121.2	111.8	108.7	104.7	101.6	99.2	95.2	91.3	89.8	87.4
82.5°	93.0	89.1	85.3	80.3	77.0	75.1	72.7	71.3	71.8	69.6	68.5
85°	49.6	45.6	44.1	43.3	41.7	43.3	42.5	41.7	40.9	40.2	40.9
87.5°	17.1	17.3	16.9	18.4	16.8	17.7	17.8	17.4	17.6	17.7	17.3
90°	6.4	7.7	9.0	10.2	11.4	12.6	13.5	14.3	15.2	16.2	16.9
92.5°	23.0	24.2	25.8	27.3	28.8	30.3	31.5	32.6	33.8	34.9	35.7
95°	52.7	53.8	55.5	57.3	59.1	60.8	62.0	63.2	64.5	65.7	66.6
97.5°	85.8	87.2	89.6	92.0	94.4	96.8	98.0	99.2	100.3	101.5	102.1
100°	110.6	111.7	114.0	116.2	118.6	120.8	122.4	124.0	125.5	127.1	128.2
102.5°	140.6	141.5	142.6	143.8	144.9	146.1	147.8	149.6	151.3	153.0	154.1
105°	183.6	184.5	185.6	186.6	187.6	188.7	189.8	190.9	191.9	193.0	193.7
107.5°	230.4	231.2	232.0	232.8	233.6	234.4	234.9	235.4	235.9	236.5	236.7
110°	262.6	263.3	263.8	264.3	264.8	265.3	265.9	266.4	266.9	267.4	267.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	293.7	294.3	294.9	295.6	296.3	296.9	297.2	297.4	297.6	297.9	297.9
115°	343.2	343.7	344.1	344.4	344.8	345.1	344.9	344.8	344.6	344.4	344.2
117.5°	390.2	390.6	390.9	391.2	391.5	391.8	391.9	392.1	392.2	392.4	392.1
120°	422.8	423.3	423.5	423.7	423.8	424.0	424.0	424.0	424.0	424.0	423.7
122.5°	453.4	453.8	454.2	454.7	455.1	455.7	455.4	455.3	455.2	455.0	454.7
125°	500.9	501.5	501.7	501.9	502.0	502.2	501.9	501.5	501.2	500.8	500.6
127.5°	546.4	546.8	547.0	547.2	547.5	547.8	547.5	547.3	547.1	547.0	546.7
130°	576.0	576.6	576.9	577.3	577.6	578.0	577.8	577.6	577.5	577.3	577.0
132.5°	606.7	607.3	607.3	607.2	607.1	607.1	606.9	606.7	606.5	606.4	606.0
135°	650.2	650.8	651.0	651.2	651.3	651.5	651.5	651.5	651.5	651.5	651.2
137.5°	692.4	693.1	693.5	693.8	694.2	694.6	694.8	695.0	695.2	695.4	695.1
140°	718.9	719.6	720.1	720.7	721.2	721.8	722.2	722.5	722.8	723.2	722.9
142.5°	745.6	746.3	746.9	747.6	748.2	748.9	749.1	749.3	749.5	749.7	749.4
145°	785.4	786.0	786.5	787.0	787.6	788.1	788.1	788.1	788.1	788.1	787.8
147.5°	821.0	821.4	821.9	822.3	822.7	823.1	823.5	823.9	824.5	824.9	824.5
150°	843.4	843.7	844.4	845.2	845.9	846.6	846.6	846.6	846.6	846.6	846.4
152.5°	865.4	865.7	865.9	866.2	866.5	866.8	867.2	867.6	868.0	868.4	868.3
155°	895.4	895.5	895.8	896.0	896.1	896.3	897.0	897.7	898.4	899.1	899.0
157.5°	921.7	921.6	921.8	922.0	922.1	922.3	923.0	923.7	924.4	925.1	924.9
160°	937.6	937.5	937.6	937.8	938.0	938.2	938.9	939.6	940.2	940.9	940.9
162.5°	952.7	952.5	952.5	952.6	952.6	952.7	953.5	954.3	955.2	956.0	955.9
165°	972.3	972.2	972.3	972.5	972.7	972.9	973.6	974.3	975.0	975.6	975.5
167.5°	987.2	986.9	986.9	986.9	986.9	986.9	988.0	989.1	990.1	991.2	991.1
170°	996.1	995.7	995.7	995.7	995.7	995.7	996.8	997.8	999.0	1000.0	999.9
172.5°	1002.4	1002.1	1002.1	1002.1	1002.1	1002.1	1003.1	1004.2	1005.2	1006.3	1006.3
175°	1009.6	1009.2	1009.2	1009.2	1009.2	1009.2	1010.3	1011.3	1012.4	1013.4	1013.3
177.5°	1013.7	1013.4	1013.3	1013.1	1013.0	1012.8	1013.7	1014.5	1015.3	1016.2	1016.1
180°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7



TEST NUMBER: P333623-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1837.0	1830.1	1828.2	1830.7	1828.2	1830.1	1837.0	1837.7	1838.3	1843.3	1836.3
5°	1694.9	1687.0	1690.9	1689.3	1690.9	1687.0	1694.9	1702.7	1704.2	1711.4	1716.1
7.5°	1569.8	1560.0	1549.6	1553.0	1549.6	1560.0	1569.8	1570.0	1582.3	1591.4	1597.5
10°	1482.3	1474.4	1469.7	1473.6	1469.7	1474.4	1482.3	1492.6	1497.2	1508.2	1520.0
12.5°	1408.7	1403.9	1399.8	1398.1	1399.8	1403.9	1408.7	1419.5	1430.5	1443.4	1456.5
15°	1308.3	1298.9	1294.9	1284.8	1294.9	1298.9	1308.3	1317.8	1339.1	1344.5	1364.2
17.5°	1215.9	1212.7	1202.5	1198.1	1202.5	1212.7	1215.9	1224.0	1233.8	1254.1	1268.8
20°	1161.1	1158.0	1147.7	1154.1	1147.7	1158.0	1161.1	1173.0	1180.8	1197.3	1211.5
22.5°	1115.8	1108.8	1105.5	1103.7	1105.5	1108.8	1115.8	1121.3	1131.7	1146.9	1163.1
25°	1051.7	1041.5	1037.5	1032.8	1037.5	1041.5	1051.7	1054.8	1065.9	1080.9	1089.4
27.5°	987.7	982.3	977.0	975.8	977.0	982.3	987.7	992.2	1001.8	1014.8	1030.5
30°	946.2	940.7	936.8	936.8	936.8	940.7	946.2	955.6	962.7	974.5	986.3
32.5°	909.1	904.8	900.9	900.3	900.9	904.8	909.1	914.1	922.4	935.5	948.0
35°	855.0	848.6	847.1	842.3	847.1	848.6	855.0	858.8	867.5	877.0	887.2
37.5°	798.7	793.5	793.3	792.8	793.3	793.5	798.7	805.7	812.8	821.3	833.9
40°	762.8	758.8	758.1	752.6	758.1	758.8	762.8	766.0	773.9	784.9	794.3
42.5°	724.4	722.4	719.6	717.3	719.6	722.4	724.4	730.6	737.3	745.2	757.1
45°	672.3	666.7	666.7	662.8	666.7	666.7	672.3	677.8	681.0	690.3	706.1
47.5°	618.4	614.2	614.6	610.6	614.6	614.2	618.4	620.2	625.2	634.5	643.2
50°	582.5	580.2	579.4	577.8	579.4	580.2	582.5	581.8	588.0	596.7	608.5
52.5°	546.6	545.5	548.6	545.0	548.6	545.5	546.6	548.4	552.8	558.3	569.5
55°	498.3	495.9	500.7	495.9	500.7	495.9	498.3	496.8	498.3	503.8	510.9
57.5°	442.7	440.5	444.7	442.4	444.7	440.5	442.7	443.0	447.8	448.6	454.8
60°	406.2	401.5	403.8	404.7	403.8	401.5	406.2	407.8	409.3	410.1	416.5
62.5°	362.7	359.9	361.6	358.0	361.6	359.9	362.7	366.2	369.7	373.7	377.4
65°	301.5	299.1	296.0	294.4	296.0	299.1	301.5	303.1	311.7	316.5	325.1
67.5°	253.3	247.6	247.5	248.7	247.5	247.6	253.3	253.0	259.3	263.1	268.9
70°	218.0	218.0	217.2	217.2	217.2	218.0	218.0	222.8	225.9	229.0	233.0
72.5°	193.5	192.9	191.5	190.9	191.5	192.9	193.5	195.1	196.9	200.2	204.0
75°	155.8	156.6	155.1	154.3	155.1	156.6	155.8	155.8	159.1	159.8	161.4
77.5°	115.1	111.8	113.5	111.8	113.5	111.8	115.1	118.3	119.4	122.8	123.0
80°	87.4	86.5	89.0	86.5	89.0	86.5	87.4	87.4	89.8	91.3	95.2
82.5°	69.1	68.4	69.5	67.7	69.5	68.4	69.1	68.5	69.6	71.8	71.3
85°	41.7	40.9	40.2	40.9	40.2	40.9	41.7	40.9	40.2	40.9	41.7
87.5°	18.0	17.5	17.6	17.7	17.6	17.5	18.0	17.3	17.7	17.6	17.4
90°	17.4	17.9	18.4	19.0	18.4	17.9	17.4	16.9	16.2	15.2	14.3
92.5°	36.2	36.5	36.9	37.3	36.9	36.5	36.2	35.7	34.9	33.8	32.6
95°	66.9	67.3	67.6	67.9	67.6	67.3	66.9	66.6	65.7	64.5	63.2
97.5°	102.3	102.5	102.8	103.0	102.8	102.5	102.3	102.1	101.5	100.3	99.2
100°	128.5	128.8	129.2	129.5	129.2	128.8	128.5	128.2	127.1	125.5	124.0
102.5°	154.6	155.0	155.5	156.0	155.5	155.0	154.6	154.1	153.0	151.3	149.6
105°	194.3	194.8	195.3	195.8	195.3	194.8	194.3	193.7	193.0	191.9	190.9
107.5°	236.7	236.6	236.6	236.6	236.6	236.6	236.7	236.7	236.5	235.9	235.4
110°	267.4	267.2	267.1	266.9	267.1	267.2	267.4	267.6	267.4	266.9	266.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	297.5	297.2	296.9	296.6	296.9	297.2	297.5	297.9	297.9	297.6	297.4
115°	344.1	343.9	343.7	343.6	343.7	343.9	344.1	344.2	344.4	344.6	344.8
117.5°	391.4	390.7	390.0	389.3	390.0	390.7	391.4	392.1	392.4	392.2	392.1
120°	423.0	422.3	421.6	420.9	421.6	422.3	423.0	423.7	424.0	424.0	424.0
122.5°	454.1	453.6	453.0	452.5	453.0	453.6	454.1	454.7	455.0	455.2	455.3
125°	500.4	500.2	500.1	499.9	500.1	500.2	500.4	500.6	500.8	501.2	501.5
127.5°	546.4	546.0	545.7	545.3	545.7	546.0	546.4	546.7	547.0	547.1	547.3
130°	576.7	576.3	576.0	575.6	576.0	576.3	576.7	577.0	577.3	577.5	577.6
132.5°	605.6	605.1	604.6	604.1	604.6	605.1	605.6	606.0	606.4	606.5	606.7
135°	650.5	649.7	649.0	648.3	649.0	649.7	650.5	651.2	651.5	651.5	651.5
137.5°	694.2	693.4	692.5	691.6	692.5	693.4	694.2	695.1	695.4	695.2	695.0
140°	722.1	721.1	720.2	719.4	720.2	721.1	722.1	722.9	723.2	722.8	722.5
142.5°	748.5	747.7	746.8	745.9	746.8	747.7	748.5	749.4	749.7	749.5	749.3
145°	787.3	786.8	786.3	785.7	786.3	786.8	787.3	787.8	788.1	788.1	788.1
147.5°	823.2	822.0	820.9	819.7	820.9	822.0	823.2	824.5	824.9	824.5	823.9
150°	846.0	845.7	845.3	845.0	845.3	845.7	846.0	846.4	846.6	846.6	846.6
152.5°	867.7	867.1	866.5	865.8	866.5	867.1	867.7	868.3	868.4	868.0	867.6
155°	898.1	897.3	896.4	895.4	896.4	897.3	898.1	899.0	899.1	898.4	897.7
157.5°	923.7	922.6	921.4	920.3	921.4	922.6	923.7	924.9	925.1	924.4	923.7
160°	940.0	939.1	938.2	937.4	938.2	939.1	940.0	940.9	940.9	940.2	939.6
162.5°	954.9	953.9	952.9	951.9	952.9	953.9	954.9	955.9	956.0	955.2	954.3
165°	974.4	973.4	972.3	971.3	972.3	973.4	974.4	975.5	975.6	975.0	974.3
167.5°	990.1	989.0	987.8	986.7	987.8	989.0	990.1	991.1	991.2	990.1	989.1
170°	998.7	997.4	996.2	995.0	996.2	997.4	998.7	999.9	1000.0	999.0	997.8
172.5°	1005.2	1004.1	1003.0	1001.9	1003.0	1004.1	1005.2	1006.3	1006.3	1005.2	1004.2
175°	1012.1	1010.9	1009.7	1008.5	1009.7	1010.9	1012.1	1013.3	1013.4	1012.4	1011.3
177.5°	1015.1	1014.2	1013.2	1012.2	1013.2	1014.2	1015.1	1016.1	1016.2	1015.3	1014.5
180°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1838.3	1845.2	1849.0	1857.7	1870.4	1876.7	1885.5	1891.8	1900.7	1911.4	1920.2
5°	1719.3	1738.2	1750.7	1770.4	1788.6	1806.6	1829.5	1846.0	1868.0	1893.2	1912.9
7.5°	1608.7	1632.3	1653.3	1679.3	1709.2	1732.5	1762.2	1792.6	1827.0	1862.8	1896.5
10°	1538.2	1561.9	1587.8	1620.0	1650.0	1681.4	1716.9	1752.3	1795.6	1835.7	1881.4
12.5°	1468.2	1494.4	1523.6	1559.6	1595.8	1636.1	1672.1	1712.0	1758.5	1810.6	1859.4
15°	1381.5	1406.7	1438.2	1468.9	1510.7	1554.7	1602.8	1655.5	1707.5	1765.6	1826.3
17.5°	1288.5	1316.2	1350.8	1386.4	1430.4	1482.0	1529.0	1586.8	1645.3	1713.1	1784.4
20°	1228.0	1256.4	1297.3	1336.7	1376.8	1427.2	1483.1	1542.2	1604.3	1676.0	1755.4
22.5°	1180.1	1200.3	1240.6	1280.6	1327.7	1379.4	1434.0	1495.5	1563.4	1637.5	1720.8
25°	1109.1	1132.8	1162.0	1203.7	1252.4	1306.8	1361.9	1427.2	1501.2	1576.8	1665.7
27.5°	1046.0	1065.4	1094.2	1126.9	1175.6	1231.9	1290.5	1358.7	1434.6	1511.6	1605.1
30°	1001.3	1022.6	1050.2	1084.8	1123.4	1184.8	1244.6	1311.5	1388.7	1468.1	1564.2
32.5°	962.3	984.1	1007.9	1040.7	1082.4	1136.9	1198.6	1264.3	1342.6	1424.7	1518.2
35°	907.7	922.6	944.6	976.9	1017.8	1062.0	1124.9	1194.2	1270.5	1355.5	1449.3
37.5°	845.0	864.3	886.3	914.2	950.2	997.8	1056.4	1126.5	1197.3	1278.7	1364.2
40°	808.5	826.6	851.0	871.4	909.2	952.5	1006.0	1079.2	1150.1	1226.5	1304.4
42.5°	771.3	788.8	809.4	835.0	868.9	911.0	960.7	1028.9	1104.8	1176.7	1242.0
45°	713.2	731.3	751.0	774.6	806.1	847.1	896.7	958.8	1024.9	1091.1	1140.6
47.5°	657.6	674.6	693.2	717.4	746.4	786.0	830.3	885.2	949.5	1005.7	1041.2
50°	617.9	633.7	654.2	677.8	706.1	743.2	785.7	839.9	893.4	944.6	976.9
52.5°	579.0	596.5	617.0	637.4	664.6	701.6	740.9	787.7	838.7	880.4	907.1
55°	520.4	536.8	555.7	577.0	603.8	635.3	677.0	714.0	754.2	789.6	805.3
57.5°	463.8	478.3	496.0	518.2	542.2	571.5	604.6	640.2	668.5	693.6	711.3
60°	426.7	439.3	455.8	474.6	500.7	527.5	557.3	590.4	612.5	633.7	650.3
62.5°	388.9	400.8	416.8	433.7	456.6	481.4	510.1	536.8	558.3	572.6	591.7
65°	332.2	344.0	357.4	375.5	393.6	414.0	440.0	459.7	474.6	490.4	502.2
67.5°	279.4	289.2	301.9	316.2	331.4	351.1	371.2	387.6	397.9	407.3	421.5
70°	244.8	252.7	263.0	274.0	290.4	310.1	325.9	338.5	345.6	355.1	372.3
72.5°	209.5	218.6	228.3	239.3	252.7	269.2	283.1	295.7	300.2	307.8	318.8
75°	165.3	170.1	177.9	185.8	195.2	209.4	222.8	225.9	229.8	236.2	244.0
77.5°	125.0	129.3	132.4	137.6	145.1	156.5	163.6	168.3	169.3	171.6	179.4
80°	99.2	101.6	104.7	108.7	111.8	121.2	125.1	129.9	131.5	133.8	137.7
82.5°	72.7	75.1	77.0	80.3	85.3	89.1	93.0	97.8	98.1	99.8	100.6
85°	42.5	43.3	41.7	43.3	44.1	45.6	49.6	53.5	52.7	51.9	54.3
87.5°	17.8	17.7	16.8	18.4	16.9	17.3	17.1	17.4	18.4	19.3	20.3
90°	13.5	12.6	11.4	10.2	9.0	7.7	6.4	5.0	3.6	2.2	0.8
92.5°	31.5	30.3	28.8	27.3	25.8	24.2	23.0	22.0	21.1	20.1	19.1
95°	62.0	60.8	59.1	57.3	55.5	53.8	52.7	52.4	52.0	51.7	51.3
97.5°	98.0	96.8	94.4	92.0	89.6	87.2	85.8	85.7	85.5	85.4	85.3
100°	122.4	120.8	118.6	116.2	114.0	111.7	110.6	110.6	110.6	110.6	110.6
102.5°	147.8	146.1	144.9	143.8	142.6	141.5	140.6	139.9	139.2	138.5	137.7
105°	189.8	188.7	187.6	186.6	185.6	184.5	183.6	182.7	181.8	181.0	180.1
107.5°	234.9	234.4	233.6	232.8	232.0	231.2	230.4	229.4	228.5	227.6	226.8
110°	265.9	265.3	264.8	264.3	263.8	263.3	262.6	261.7	260.7	259.9	259.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	297.2	296.9	296.3	295.6	294.9	294.3	293.7	293.3	292.8	292.4	291.9
115°	344.9	345.1	344.8	344.4	344.1	343.7	343.2	342.4	341.7	341.0	340.3
117.5°	391.9	391.8	391.5	391.2	390.9	390.6	390.2	389.9	389.6	389.3	389.0
120°	424.0	424.0	423.8	423.7	423.5	423.3	422.8	421.9	421.1	420.2	419.3
122.5°	455.4	455.7	455.1	454.7	454.2	453.8	453.4	453.1	452.8	452.5	452.1
125°	501.9	502.2	502.0	501.9	501.7	501.5	500.9	499.9	498.8	497.8	496.7
127.5°	547.5	547.8	547.5	547.2	547.0	546.8	546.4	545.8	545.2	544.7	544.1
130°	577.8	578.0	577.6	577.3	576.9	576.6	576.0	575.1	574.3	573.4	572.5
132.5°	606.9	607.1	607.1	607.2	607.3	607.3	606.7	605.2	603.8	602.4	601.0
135°	651.5	651.5	651.3	651.2	651.0	650.8	650.2	649.1	648.0	647.0	645.9
137.5°	694.8	694.6	694.2	693.8	693.5	693.1	692.4	691.4	690.3	689.3	688.3
140°	722.2	721.8	721.2	720.7	720.1	719.6	718.9	718.1	717.2	716.3	715.5
142.5°	749.1	748.9	748.2	747.6	746.9	746.3	745.6	744.8	744.1	743.4	742.7
145°	788.1	788.1	787.6	787.0	786.5	786.0	785.4	784.7	784.0	783.3	782.5
147.5°	823.5	823.1	822.7	822.3	821.9	821.4	821.0	820.7	820.3	819.9	819.5
150°	846.6	846.6	845.9	845.2	844.4	843.7	843.4	843.6	843.8	843.9	844.1
152.5°	867.2	866.8	866.5	866.2	865.9	865.7	865.4	865.2	864.8	864.6	864.3
155°	897.0	896.3	896.1	896.0	895.8	895.5	895.4	895.4	895.4	895.4	895.4
157.5°	923.0	922.3	922.1	922.0	921.8	921.6	921.7	922.1	922.5	922.9	923.3
160°	938.9	938.2	938.0	937.8	937.6	937.5	937.6	938.2	938.7	939.2	939.7
162.5°	953.5	952.7	952.6	952.6	952.5	952.5	952.7	953.1	953.4	953.8	954.2
165°	973.6	972.9	972.7	972.5	972.3	972.2	972.3	972.6	973.0	973.3	973.7
167.5°	988.0	986.9	986.9	986.9	986.9	986.9	987.2	988.0	988.7	989.4	990.1
170°	996.8	995.7	995.7	995.7	995.7	995.7	996.1	996.8	997.5	998.3	999.0
172.5°	1003.1	1002.1	1002.1	1002.1	1002.1	1002.1	1002.4	1003.1	1003.8	1004.5	1005.2
175°	1010.3	1009.2	1009.2	1009.2	1009.2	1009.2	1009.6	1010.3	1011.0	1011.7	1012.4
177.5°	1013.7	1012.8	1013.0	1013.1	1013.3	1013.4	1013.7	1014.3	1014.9	1015.4	1016.0
180°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1927.0	1932.8	1941.0	1950.4	1957.9	1966.1	1970.5	1970.5	1974.3	1982.5	1993.2
5°	1932.6	1953.1	1972.8	1997.9	2017.6	2040.4	2057.7	2074.3	2089.2	2108.1	2127.8
7.5°	1931.0	1965.0	2000.4	2040.1	2083.9	2118.7	2154.4	2182.4	2210.2	2246.3	2274.8
10°	1924.7	1968.8	2016.8	2067.2	2122.3	2170.3	2213.6	2253.0	2290.8	2330.2	2365.5
12.5°	1913.4	1969.4	2028.1	2088.6	2158.2	2213.1	2269.1	2310.9	2355.0	2398.1	2441.8
15°	1896.3	1962.5	2033.4	2117.6	2202.6	2264.0	2319.1	2373.4	2414.4	2463.2	2504.9
17.5°	1861.3	1946.4	2035.6	2127.7	2209.4	2280.7	2338.4	2390.1	2433.7	2487.4	2544.1
20°	1840.5	1932.6	2025.5	2123.8	2201.8	2275.0	2330.9	2384.4	2438.7	2508.8	2578.1
22.5°	1811.5	1910.0	2008.4	2101.8	2184.1	2254.8	2312.7	2378.1	2449.4	2529.0	2612.7
25°	1765.6	1867.2	1964.9	2053.8	2134.1	2206.6	2285.2	2373.4	2460.0	2564.8	2685.1
27.5°	1707.6	1805.5	1892.6	1986.6	2066.4	2158.5	2256.7	2352.3	2477.2	2621.2	2771.6
30°	1664.2	1757.1	1839.7	1928.6	2019.1	2120.7	2230.9	2343.5	2492.2	2661.5	2840.2
32.5°	1613.8	1697.9	1779.9	1865.6	1970.0	2081.6	2198.8	2336.5	2514.4	2706.8	2891.8
35°	1526.4	1601.9	1681.4	1776.8	1887.7	2008.9	2158.5	2326.2	2541.1	2748.1	2914.3
37.5°	1434.7	1494.4	1574.3	1674.7	1795.6	1935.9	2105.6	2309.4	2530.1	2715.8	2786.5
40°	1364.2	1420.1	1504.3	1609.8	1729.5	1883.0	2073.5	2282.9	2504.9	2633.9	2628.5
42.5°	1294.3	1350.8	1431.9	1538.0	1662.7	1834.5	2030.6	2248.3	2435.6	2484.8	2382.3
45°	1187.1	1239.8	1319.4	1426.4	1560.2	1740.5	1946.7	2155.4	2275.0	2195.5	1992.4
47.5°	1077.8	1129.0	1202.9	1307.7	1453.8	1642.4	1837.4	2008.6	2025.5	1854.6	1611.0
50°	1006.0	1054.1	1124.1	1235.9	1377.6	1561.9	1750.0	1884.6	1842.8	1634.3	1383.1
52.5°	936.1	982.3	1047.9	1153.4	1298.3	1478.6	1646.7	1752.3	1655.8	1434.0	1208.0
55°	832.8	877.0	943.1	1039.9	1171.3	1336.7	1483.9	1522.5	1380.8	1157.2	974.5
57.5°	734.8	767.1	832.4	918.1	1044.8	1190.5	1296.1	1289.1	1132.8	931.4	800.4
60°	669.9	699.0	761.2	839.9	960.4	1091.1	1165.1	1133.6	975.3	809.2	683.3
62.5°	609.5	636.7	688.8	761.2	864.6	978.4	1032.2	988.8	839.3	693.4	593.2
65°	518.0	537.7	579.4	646.3	727.4	806.1	854.1	790.3	658.1	547.9	472.3
67.5°	432.5	449.5	486.7	534.6	590.6	644.9	664.4	604.6	501.8	427.5	374.3
70°	377.1	392.8	418.0	462.9	499.9	538.5	547.9	494.3	408.6	351.8	318.8
72.5°	324.2	338.6	360.7	392.3	418.0	440.2	444.6	394.9	329.2	290.1	264.7
75°	247.2	259.7	274.0	285.8	302.3	306.2	304.7	266.1	230.7	204.7	190.5
77.5°	181.7	186.9	195.5	200.3	201.1	200.8	192.7	168.3	150.1	139.4	133.5
80°	140.2	144.1	146.4	147.9	148.8	140.9	132.3	117.2	111.0	104.7	97.7
82.5°	101.7	104.4	106.7	107.0	102.8	96.2	88.2	80.8	76.3	73.2	70.5
85°	55.1	55.8	55.1	51.2	45.6	43.3	41.7	40.2	39.4	38.6	38.6
87.5°	20.0	18.4	15.5	16.4	16.7	16.3	16.6	16.2	15.8	16.0	16.1
90°	2.2	3.6	5.0	6.4	7.7	9.0	10.2	11.4	12.6	13.5	14.3
92.5°	20.1	21.1	22.0	23.0	24.2	25.8	27.3	28.8	30.3	31.5	32.6
95°	51.7	52.0	52.4	52.7	53.8	55.5	57.3	59.1	60.8	62.0	63.2
97.5°	85.4	85.5	85.7	85.8	87.2	89.6	92.0	94.4	96.8	98.0	99.2
100°	110.6	110.6	110.6	110.6	111.7	114.0	116.2	118.6	120.8	122.4	124.0
102.5°	138.5	139.2	139.9	140.6	141.5	142.6	143.8	144.9	146.1	147.8	149.6
105°	181.0	181.8	182.7	183.6	184.5	185.6	186.6	187.6	188.7	189.8	190.9
107.5°	227.6	228.5	229.4	230.4	231.2	232.0	232.8	233.6	234.4	234.9	235.4
110°	259.9	260.7	261.7	262.6	263.3	263.8	264.3	264.8	265.3	265.9	266.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	292.4	292.8	293.3	293.7	294.3	294.9	295.6	296.3	296.9	297.2	297.4
115°	341.0	341.7	342.4	343.2	343.7	344.1	344.4	344.8	345.1	344.9	344.8
117.5°	389.3	389.6	389.9	390.2	390.6	390.9	391.2	391.5	391.8	391.9	392.1
120°	420.2	421.1	421.9	422.8	423.3	423.5	423.7	423.8	424.0	424.0	424.0
122.5°	452.5	452.8	453.1	453.4	453.8	454.2	454.7	455.1	455.7	455.4	455.3
125°	497.8	498.8	499.9	500.9	501.5	501.7	501.9	502.0	502.2	501.9	501.5
127.5°	544.7	545.2	545.8	546.4	546.8	547.0	547.2	547.5	547.8	547.5	547.3
130°	573.4	574.3	575.1	576.0	576.6	576.9	577.3	577.6	578.0	577.8	577.6
132.5°	602.4	603.8	605.2	606.7	607.3	607.3	607.2	607.1	607.1	606.9	606.7
135°	647.0	648.0	649.1	650.2	650.8	651.0	651.2	651.3	651.5	651.5	651.5
137.5°	689.3	690.3	691.4	692.4	693.1	693.5	693.8	694.2	694.6	694.8	695.0
140°	716.3	717.2	718.1	718.9	719.6	720.1	720.7	721.2	721.8	722.2	722.5
142.5°	743.4	744.1	744.8	745.6	746.3	746.9	747.6	748.2	748.9	749.1	749.3
145°	783.3	784.0	784.7	785.4	786.0	786.5	787.0	787.6	788.1	788.1	788.1
147.5°	819.9	820.3	820.7	821.0	821.4	821.9	822.3	822.7	823.1	823.5	823.9
150°	843.9	843.8	843.6	843.4	843.7	844.4	845.2	845.9	846.6	846.6	846.6
152.5°	864.6	864.8	865.2	865.4	865.7	865.9	866.2	866.5	866.8	867.2	867.6
155°	895.4	895.4	895.4	895.4	895.5	895.8	896.0	896.1	896.3	897.0	897.7
157.5°	922.9	922.5	922.1	921.7	921.6	921.8	922.0	922.1	922.3	923.0	923.7
160°	939.2	938.7	938.2	937.6	937.5	937.6	937.8	938.0	938.2	938.9	939.6
162.5°	953.8	953.4	953.1	952.7	952.5	952.5	952.6	952.6	952.7	953.5	954.3
165°	973.3	973.0	972.6	972.3	972.2	972.3	972.5	972.7	972.9	973.6	974.3
167.5°	989.4	988.7	988.0	987.2	986.9	986.9	986.9	986.9	986.9	988.0	989.1
170°	998.3	997.5	996.8	996.1	995.7	995.7	995.7	995.7	995.7	996.8	997.8
172.5°	1004.5	1003.8	1003.1	1002.4	1002.1	1002.1	1002.1	1002.1	1002.1	1003.1	1004.2
175°	1011.7	1011.0	1010.3	1009.6	1009.2	1009.2	1009.2	1009.2	1009.2	1010.3	1011.3
177.5°	1015.4	1014.9	1014.3	1013.7	1013.4	1013.3	1013.1	1013.0	1012.8	1013.7	1014.5
180°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	2001.4	2001.4	2012.1	2011.4	2018.4	2015.9	2017.1
5°	2151.4	2164.8	2176.7	2184.4	2196.3	2199.5	2197.9
7.5°	2306.9	2336.7	2351.2	2371.1	2374.7	2385.1	2384.0
10°	2403.4	2432.5	2454.5	2471.8	2480.4	2491.5	2492.2
12.5°	2478.9	2503.7	2523.1	2539.2	2549.7	2553.2	2555.3
15°	2537.9	2565.5	2588.3	2611.1	2624.5	2634.7	2640.3
17.5°	2597.5	2640.0	2680.3	2711.3	2729.9	2745.6	2745.4
20°	2643.4	2692.2	2742.6	2778.0	2814.3	2829.9	2832.4
22.5°	2692.5	2767.1	2832.1	2887.0	2934.6	2950.9	2957.1
25°	2794.6	2892.2	2992.1	3069.3	3124.4	3156.6	3161.4
27.5°	2917.8	3049.9	3155.1	3226.3	3272.1	3296.0	3301.2
30°	3004.8	3126.7	3221.3	3274.8	3296.0	3299.1	3287.3
32.5°	3043.8	3134.9	3172.7	3169.6	3127.9	3100.2	3089.6
35°	2996.1	2977.2	2885.1	2774.9	2690.7	2637.2	2622.9
37.5°	2726.5	2563.6	2394.2	2227.7	2139.0	2094.0	2016.5
40°	2460.8	2228.6	2052.2	1912.1	1812.1	1731.8	1712.9
42.5°	2161.0	1921.3	1744.9	1625.0	1545.1	1490.1	1466.1
45°	1736.6	1530.3	1384.7	1292.6	1231.2	1191.0	1173.0
47.5°	1389.0	1229.3	1123.2	1055.0	1008.2	973.3	963.5
50°	1198.1	1070.6	980.9	923.4	888.0	861.2	850.2
52.5°	1040.7	937.8	868.8	821.3	787.8	771.1	762.0
55°	858.8	769.9	720.3	682.5	663.6	650.3	643.9
57.5°	702.4	638.1	601.9	575.7	558.3	549.8	546.6
60°	614.8	564.4	531.4	510.9	499.1	488.1	484.9
62.5°	537.3	497.7	472.2	454.2	442.4	437.7	435.8
65°	432.9	407.0	388.1	377.1	367.6	366.1	365.3
67.5°	344.2	328.9	319.0	307.5	304.2	298.6	297.6
70°	294.4	284.2	272.4	268.4	264.5	259.0	259.7
72.5°	249.7	239.4	231.5	226.2	224.8	222.5	224.5
75°	182.6	179.5	176.3	172.4	170.9	170.9	170.1
77.5°	130.4	127.6	124.2	121.9	121.4	118.1	119.4
80°	94.4	90.5	89.0	89.8	87.4	86.5	86.5
82.5°	69.9	68.5	67.0	67.1	66.6	65.8	66.4
85°	38.6	37.8	37.8	37.0	37.0	36.3	36.3
87.5°	16.9	17.7	16.6	16.1	16.2	16.9	17.7
90°	15.2	16.2	16.9	17.4	17.9	18.4	19.0
92.5°	33.8	34.9	35.7	36.2	36.5	36.9	37.3
95°	64.5	65.7	66.6	66.9	67.3	67.6	67.9
97.5°	100.3	101.5	102.1	102.3	102.5	102.8	103.0
100°	125.5	127.1	128.2	128.5	128.8	129.2	129.5
102.5°	151.3	153.0	154.1	154.6	155.0	155.5	156.0
105°	191.9	193.0	193.7	194.3	194.8	195.3	195.8
107.5°	235.9	236.5	236.7	236.7	236.6	236.6	236.6
110°	266.9	267.4	267.6	267.4	267.2	267.1	266.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	297.6	297.9	297.9	297.5	297.2	296.9	296.6
115°	344.6	344.4	344.2	344.1	343.9	343.7	343.6
117.5°	392.2	392.4	392.1	391.4	390.7	390.0	389.3
120°	424.0	424.0	423.7	423.0	422.3	421.6	420.9
122.5°	455.2	455.0	454.7	454.1	453.6	453.0	452.5
125°	501.2	500.8	500.6	500.4	500.2	500.1	499.9
127.5°	547.1	547.0	546.7	546.4	546.0	545.7	545.3
130°	577.5	577.3	577.0	576.7	576.3	576.0	575.6
132.5°	606.5	606.4	606.0	605.6	605.1	604.6	604.1
135°	651.5	651.5	651.2	650.5	649.7	649.0	648.3
137.5°	695.2	695.4	695.1	694.2	693.4	692.5	691.6
140°	722.8	723.2	722.9	722.1	721.1	720.2	719.4
142.5°	749.5	749.7	749.4	748.5	747.7	746.8	745.9
145°	788.1	788.1	787.8	787.3	786.8	786.3	785.7
147.5°	824.5	824.9	824.5	823.2	822.0	820.9	819.7
150°	846.6	846.6	846.4	846.0	845.7	845.3	845.0
152.5°	868.0	868.4	868.3	867.7	867.1	866.5	865.8
155°	898.4	899.1	899.0	898.1	897.3	896.4	895.4
157.5°	924.4	925.1	924.9	923.7	922.6	921.4	920.3
160°	940.2	940.9	940.9	940.0	939.1	938.2	937.4
162.5°	955.2	956.0	955.9	954.9	953.9	952.9	951.9
165°	975.0	975.6	975.5	974.4	973.4	972.3	971.3
167.5°	990.1	991.2	991.1	990.1	989.0	987.8	986.7
170°	999.0	1000.0	999.9	998.7	997.4	996.2	995.0
172.5°	1005.2	1006.3	1006.3	1005.2	1004.1	1003.0	1001.9
175°	1012.4	1013.4	1013.3	1012.1	1010.9	1009.7	1008.5
177.5°	1015.3	1016.2	1016.1	1015.1	1014.2	1013.2	1012.2
180°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7

(END OF REPORT)