

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: P331854-830

Luminaire Tested: **S122RDIW-S1005D970U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331854-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S1005D970U830-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

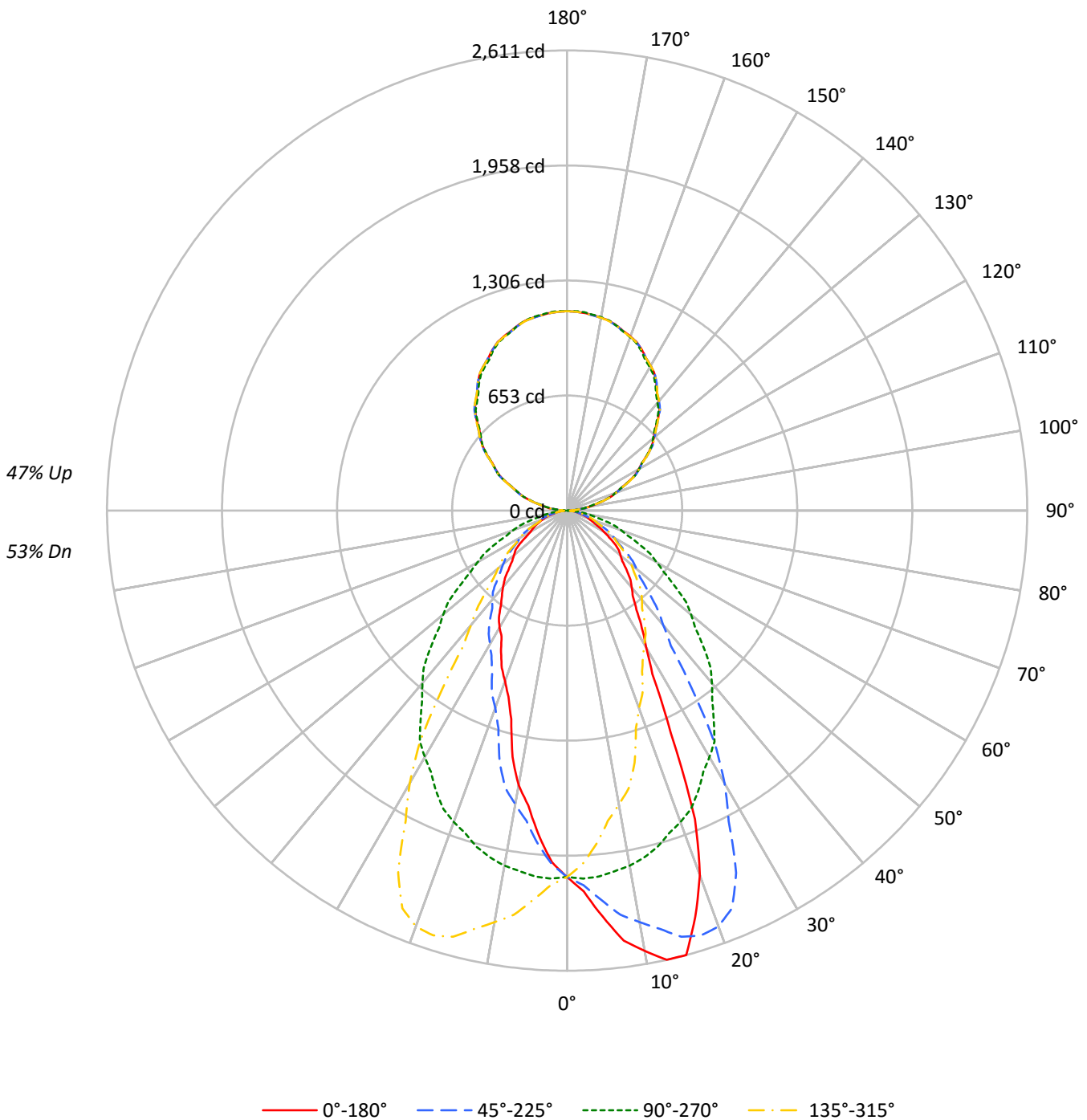
Lumens per Lamp: N/A  
Luminaire Lumens: 6760.2 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (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				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	85	85	85	72	72	72	59	59	59	53
1	99	95	92	88	92	88	85	83	76	74	72	64	63	61	53	52	51	46
2	91	84	78	74	84	78	73	69	67	64	61	57	55	52	48	46	45	40
3	84	75	68	62	77	70	64	59	60	56	52	52	48	45	43	41	39	35
4	77	67	59	54	71	63	56	51	54	49	45	47	43	40	39	37	35	31
5	71	60	52	47	66	56	49	44	49	44	40	42	38	35	36	33	31	28
6	66	54	47	41	61	51	44	39	45	39	35	39	35	31	33	30	28	25
7	61	49	42	37	57	47	40	35	41	35	32	36	31	28	31	27	25	22
8	57	45	38	33	53	43	36	31	38	32	28	33	29	26	28	25	23	20
9	53	42	34	30	50	39	33	28	35	29	26	30	26	23	26	23	21	19
10	50	38	31	27	47	36	30	26	32	27	23	28	24	21	25	21	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	33562	33562	33562	33562
5°	37483	33773	29945	33773
10°	41589	33536	25956	33536
15°	43632	33045	20451	33045
20°	37826	32316	17698	32316
25°	24807	31319	15800	31319
30°	16697	30109	14300	30109
35°	13525	28586	12899	28586
40°	12026	26930	11936	26930
45°	10885	24987	10654	24987
50°	9907	23059	9869	23059
55°	9312	20921	9191	20921
60°	7789	18962	7698	18962
65°	6567	17219	7450	17219
70°	6071	15375	7024	15375
75°	5677	13381	6488	13381
80°	5244	11018	5774	11018
85°	4817	8688	5076	8688



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.1	2.9
10°-20°	549.1	8.1
20°-30°	707.5	10.5
30°-40°	672.4	9.9
40°-50°	576.0	8.5
50°-60°	438.6	6.5
60°-70°	277.3	4.1
70°-80°	138.5	2.0
80°-90°	40.6	0.6
90°-100°	71.7	1.1
100°-110°	222.6	3.3
110°-120°	380.6	5.6
120°-130°	500.5	7.4
130°-140°	561.7	8.3
140°-150°	550.8	8.1
150°-160°	462.0	6.8
160°-170°	306.4	4.5
170°-180°	107.1	1.6
0°-30°	1453.7	21.5
0°-40°	2126.0	31.4
0°-60°	3140.7	46.5
0°-90°	3597.0	53.2
90°-120°	674.9	10.0
90°-150°	2287.8	33.8
90°-180°	3163.0	46.8
0°-180°	6760.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2079	2079	2079	2079	2079	
5°	2313	2084	1848	2084	2313	228
15°	2610	1977	1224	1977	2610	704
25°	1392	1758	887	1758	1392	661
35°	686	1450	654	1450	686	439
45°	477	1094	467	1094	477	369
55°	331	743	326	743	331	290
65°	172	451	195	451	172	175
75°	91	214	104	214	91	97
85°	26	47	27	47	26	29
90°	32	1	32	1	32	15
95°	59	50	59	50	59	66
105°	212	205	212	205	212	223
115°	382	382	382	382	382	377
125°	558	556	558	556	558	497
135°	728	719	728	719	728	560
145°	882	872	882	872	882	551
155°	1005	998	1005	998	1005	463
165°	1086	1085	1086	1085	1086	306
175°	1126	1129	1126	1129	1126	107
180°	1131	1131	1131	1131	1131	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2163.0	2164.8	2166.5	2162.5	2162.5	2159.0	2151.5	2145.7	2129.6	2127.2	2127.2
5°	2312.7	2311.3	2314.1	2304.8	2291.8	2288.9	2275.2	2257.1	2238.4	2217.4	2213.1
7.5°	2461.5	2459.4	2453.5	2452.0	2442.0	2420.2	2398.1	2374.5	2343.3	2312.9	2297.5
10°	2536.7	2560.5	2546.0	2520.7	2525.8	2491.9	2473.8	2442.8	2416.8	2371.2	2361.2
12.5°	2610.6	2620.0	2615.4	2601.0	2594.5	2571.0	2546.6	2519.6	2471.6	2430.7	2395.2
15°	2610.3	2624.0	2627.6	2623.3	2627.0	2625.5	2612.4	2590.1	2548.2	2503.4	2464.4
17.5°	2417.6	2427.1	2450.8	2466.8	2487.1	2529.9	2550.9	2559.2	2553.0	2527.4	2499.9
20°	2201.5	2185.6	2252.0	2286.0	2314.9	2387.1	2449.2	2473.0	2511.3	2510.7	2503.4
22.5°	1895.3	1899.0	1962.0	2002.3	2086.7	2158.9	2229.7	2319.4	2393.5	2442.4	2471.1
25°	1392.5	1420.0	1482.8	1537.8	1631.6	1765.9	1888.0	2029.6	2163.2	2268.7	2369.1
27.5°	1045.8	1047.9	1097.7	1148.4	1204.2	1314.3	1467.9	1637.0	1827.5	1984.7	2165.5
30°	895.6	891.3	912.2	943.3	991.0	1076.2	1191.8	1357.9	1547.8	1784.7	1995.6
32.5°	789.3	789.6	805.3	828.3	867.9	925.4	1004.6	1139.4	1319.0	1551.9	1799.2
35°	686.2	685.4	697.0	713.6	730.2	767.0	821.2	892.0	1015.5	1232.9	1485.7
37.5°	612.2	615.4	621.0	631.4	649.8	670.2	702.8	750.3	838.3	966.9	1179.3
40°	570.6	572.0	579.9	588.6	599.5	615.4	642.1	680.4	744.7	847.3	1002.5
42.5°	532.4	534.0	539.5	547.6	556.2	572.0	594.2	627.3	679.4	759.4	887.5
45°	476.7	476.7	481.7	485.4	494.7	509.2	527.3	554.7	590.8	650.1	735.3
47.5°	424.4	424.5	427.9	434.1	440.0	451.3	469.0	491.4	517.7	563.5	636.3
50°	394.4	395.1	397.3	402.3	406.0	416.0	429.8	449.2	476.7	512.1	572.8
52.5°	370.1	369.7	372.4	374.6	377.0	384.3	394.5	411.7	436.2	467.0	517.3
55°	330.8	327.9	332.2	335.8	338.0	340.9	346.7	357.5	378.4	404.4	442.1
57.5°	281.7	280.5	283.6	286.9	293.7	301.5	306.4	313.3	324.1	342.8	380.0
60°	241.2	241.2	247.7	249.9	257.9	268.0	278.1	283.9	294.7	307.0	334.4
62.5°	205.4	206.0	209.1	211.2	215.7	228.1	242.2	255.0	265.2	276.9	295.1
65°	171.9	173.3	173.3	174.7	177.7	180.6	186.3	196.4	214.5	231.1	244.9
67.5°	145.9	146.4	146.8	148.2	148.9	152.1	154.4	158.9	163.1	178.8	195.9
70°	128.6	130.7	130.0	131.5	132.1	133.7	136.5	138.6	145.2	148.8	158.9
72.5°	112.4	114.0	113.9	114.7	116.6	116.9	119.1	121.3	125.5	128.6	134.0
75°	91.0	90.3	91.0	92.5	93.2	93.9	93.9	96.8	99.0	101.8	105.5
77.5°	70.2	71.0	70.8	71.0	71.1	72.4	72.2	73.5	75.7	77.1	78.9
80°	56.4	57.0	56.4	57.0	57.8	58.5	57.8	58.5	60.7	62.1	62.1
82.5°	43.6	43.7	44.2	44.4	44.5	44.7	45.6	45.8	47.4	47.1	47.7
85°	26.0	25.3	25.3	25.3	26.0	26.8	26.0	26.0	26.8	26.8	26.8
87.5°	15.7	16.3	16.2	16.2	16.1	16.2	16.2	16.9	16.4	17.1	15.6
90°	32.4	32.2	32.0	31.9	31.6	31.7	32.1	32.5	33.0	33.4	28.7
92.5°	30.9	30.9	30.8	30.8	30.7	30.7	30.6	30.5	30.4	30.3	29.2
95°	59.2	59.6	60.0	60.4	60.9	61.1	61.1	61.1	61.1	61.1	60.7
97.5°	102.5	102.5	102.6	102.6	102.7	102.7	102.7	102.7	102.7	102.7	101.9
100°	130.8	131.0	131.2	131.4	131.7	131.8	131.8	131.8	131.8	131.8	131.1
102.5°	162.9	163.1	163.2	163.5	163.7	163.7	163.5	163.4	163.2	163.1	162.2
105°	212.0	212.0	212.0	212.0	212.0	211.7	211.3	210.8	210.5	210.0	209.6
107.5°	258.2	259.1	260.0	261.1	262.0	262.4	262.3	262.1	261.9	261.7	261.7
110°	294.1	294.6	295.3	296.0	296.6	296.9	296.9	296.9	296.9	296.9	296.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	328.4	328.9	329.3	329.8	330.3	330.7	331.3	331.8	332.2	332.8	333.0
115°	381.8	382.5	383.1	383.8	384.4	384.8	385.0	385.2	385.5	385.7	386.1
117.5°	432.8	433.5	434.1	434.8	435.4	435.9	436.5	437.0	437.5	438.0	439.2
120°	468.7	469.4	470.0	470.6	471.3	471.6	471.6	471.6	471.6	471.6	473.3
122.5°	503.9	504.4	504.8	505.3	505.8	506.2	506.7	507.3	507.7	508.2	509.4
125°	557.5	557.7	558.0	558.2	558.4	558.8	559.4	560.1	560.7	561.4	561.9
127.5°	606.4	607.1	607.8	608.4	609.1	609.8	610.6	611.3	612.1	612.9	613.7
130°	641.5	642.3	643.2	644.0	644.9	645.5	646.0	646.4	646.9	647.2	647.7
132.5°	675.1	675.8	676.5	677.2	677.9	678.6	679.6	680.5	681.5	682.4	682.3
135°	727.5	728.1	728.7	729.3	730.0	730.4	730.7	730.8	731.0	731.2	730.8
137.5°	774.8	775.6	776.5	777.3	778.2	778.7	778.9	779.0	779.2	779.4	778.8
140°	807.7	808.5	809.4	810.2	811.1	811.4	811.4	811.4	811.4	811.4	810.4
142.5°	837.4	838.3	839.1	840.0	840.8	841.1	841.0	840.8	840.7	840.5	839.8
145°	882.1	883.0	883.8	884.7	885.5	885.8	885.6	885.4	885.1	885.0	883.7
147.5°	922.0	922.8	923.6	924.4	925.2	925.4	924.9	924.4	924.0	923.5	922.7
150°	948.0	948.6	949.2	949.9	950.6	950.6	949.9	949.2	948.6	948.0	947.2
152.5°	972.4	973.2	974.0	974.9	975.6	975.6	974.9	974.0	973.2	972.4	971.4
155°	1005.2	1005.9	1006.5	1007.2	1007.8	1007.6	1006.5	1005.5	1004.4	1003.3	1002.7
157.5°	1033.5	1034.5	1035.6	1036.6	1037.6	1037.4	1035.9	1034.5	1033.0	1031.6	1031.2
160°	1051.1	1052.0	1052.8	1053.7	1054.5	1054.2	1053.0	1051.7	1050.5	1049.1	1049.0
162.5°	1066.4	1067.3	1068.4	1069.4	1070.4	1070.3	1068.7	1067.3	1065.9	1064.4	1064.2
165°	1086.4	1087.5	1088.5	1089.6	1090.6	1090.4	1088.9	1087.5	1086.0	1084.5	1084.5
167.5°	1102.9	1103.9	1105.0	1106.2	1107.2	1107.0	1105.6	1104.1	1102.6	1101.1	1101.2
170°	1111.3	1112.5	1113.8	1115.0	1116.3	1116.3	1114.7	1113.2	1111.7	1110.3	1110.5
172.5°	1118.1	1119.4	1120.7	1121.9	1123.2	1123.0	1121.6	1120.1	1118.6	1117.1	1117.4
175°	1125.6	1126.8	1128.1	1129.4	1130.7	1130.5	1129.1	1127.6	1126.1	1124.5	1125.0
177.5°	1129.0	1130.0	1131.1	1132.0	1133.0	1133.0	1132.0	1131.1	1130.0	1129.0	1129.4
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2128.4	2123.7	2119.8	2109.3	2104.1	2092.5	2090.8	2090.3	2075.3	2060.8	2056.7
5°	2201.5	2189.9	2172.7	2152.4	2131.5	2109.8	2095.4	2083.8	2054.8	2027.4	2011.6
7.5°	2275.2	2250.3	2220.4	2182.2	2150.2	2114.4	2087.8	2064.0	2023.0	1983.7	1957.2
10°	2330.1	2289.6	2249.8	2197.2	2156.0	2115.5	2078.0	2045.5	1999.2	1947.3	1910.4
12.5°	2364.2	2319.7	2264.9	2213.4	2160.0	2108.7	2058.3	2016.6	1962.3	1908.6	1864.8
15°	2410.3	2362.6	2296.1	2222.4	2153.8	2086.7	2028.9	1976.9	1906.1	1841.8	1788.4
17.5°	2448.0	2382.4	2311.0	2225.8	2146.4	2061.0	1986.6	1920.1	1841.4	1763.8	1700.8
20°	2460.0	2395.1	2312.7	2227.5	2133.6	2033.3	1953.0	1880.8	1796.3	1711.8	1639.6
22.5°	2452.6	2402.0	2310.5	2208.5	2112.2	2007.2	1916.7	1832.9	1739.1	1652.8	1569.1
25°	2401.6	2384.3	2297.5	2186.3	2076.5	1954.5	1849.7	1758.0	1651.1	1558.7	1467.6
27.5°	2282.6	2320.1	2266.3	2147.9	2025.8	1895.0	1777.3	1672.8	1561.9	1457.8	1367.2
30°	2168.3	2254.2	2231.1	2121.3	1984.8	1856.2	1724.1	1615.0	1496.6	1389.7	1300.1
32.5°	2011.7	2153.7	2176.2	2084.3	1943.2	1802.0	1663.4	1554.9	1431.3	1318.6	1231.3
35°	1762.4	1974.7	2072.2	2013.7	1872.2	1719.8	1576.7	1450.3	1326.1	1214.8	1128.2
37.5°	1464.9	1754.2	1916.7	1920.8	1790.8	1632.4	1476.6	1351.1	1224.0	1114.7	1021.1
40°	1272.0	1585.4	1797.1	1844.0	1734.2	1563.0	1405.5	1277.7	1153.5	1046.6	939.0
42.5°	1098.6	1410.9	1671.0	1752.7	1665.5	1495.4	1337.4	1203.7	1083.0	981.8	871.9
45°	888.4	1161.4	1448.1	1594.0	1545.7	1388.2	1221.3	1094.3	980.8	893.4	788.0
47.5°	749.4	941.9	1219.4	1416.6	1415.8	1272.1	1108.0	986.2	881.0	799.1	713.8
50°	670.2	837.8	1072.6	1296.5	1315.2	1194.7	1038.6	918.0	819.8	733.9	665.2
52.5°	599.2	737.3	948.4	1163.0	1216.4	1112.0	960.6	849.2	753.9	674.9	616.1
55°	506.3	613.2	773.5	974.3	1055.3	981.6	847.3	743.2	665.9	599.5	548.9
57.5°	428.3	508.5	637.2	798.8	893.1	846.7	735.8	651.4	585.2	525.1	485.2
60°	379.2	444.9	554.0	689.1	793.1	760.5	665.9	587.2	530.8	478.9	441.3
62.5°	333.0	389.5	483.0	592.6	687.9	674.5	597.2	531.1	481.7	434.4	402.6
65°	268.0	309.2	382.1	468.1	544.6	551.1	495.5	450.7	406.6	369.1	340.9
67.5°	213.4	240.3	291.6	364.0	421.4	441.9	407.9	373.7	338.7	309.7	285.3
70°	179.8	201.5	239.0	297.6	350.3	371.9	352.5	325.7	295.4	271.5	250.6
72.5°	145.7	166.8	194.5	237.5	282.7	306.1	299.4	280.1	255.5	235.7	215.9
75°	109.8	116.3	135.1	164.0	199.3	219.6	224.6	214.5	195.0	179.8	168.2
77.5°	81.2	85.1	94.1	109.2	132.3	150.3	157.8	156.6	143.2	134.3	123.5
80°	65.0	67.2	71.5	78.0	95.4	113.4	118.5	118.5	109.1	105.5	94.6
82.5°	49.4	51.0	53.6	57.2	65.3	81.1	86.7	87.8	81.9	77.1	68.6
85°	28.2	27.4	28.9	31.1	32.5	36.9	45.5	46.9	45.5	39.7	37.5
87.5°	14.6	14.3	13.4	12.1	12.2	12.2	14.6	17.0	15.2	13.9	13.3
90°	24.0	19.4	14.7	11.1	8.6	6.0	3.5	0.9	3.5	6.0	8.6
92.5°	28.2	27.1	25.9	24.5	22.6	20.7	18.9	17.0	18.9	20.7	22.6
95°	60.2	59.9	59.4	58.2	56.0	53.9	51.7	49.7	51.7	53.9	56.0
97.5°	101.1	100.3	99.5	98.1	96.3	94.4	92.6	90.7	92.6	94.4	96.3
100°	130.4	129.8	129.2	128.0	126.3	124.6	122.9	121.2	122.9	124.6	126.3
102.5°	161.5	160.6	159.9	158.7	157.4	156.0	154.7	153.4	154.7	156.0	157.4
105°	209.2	208.8	208.3	207.8	207.2	206.5	205.9	205.3	205.9	206.5	207.2
107.5°	261.7	261.7	261.7	261.3	260.3	259.4	258.5	257.6	258.5	259.4	260.3
110°	296.9	296.9	296.9	296.2	295.0	293.7	292.5	291.2	292.5	293.7	295.0





TEST NUMBER: P331854-830

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	333.1	333.3	333.5	332.9	331.7	330.4	329.1	327.8	329.1	330.4	331.7
115°	386.5	386.9	387.4	386.9	385.7	384.4	383.1	381.8	383.1	384.4	385.7
117.5°	440.4	441.6	442.7	442.5	440.8	439.1	437.4	435.7	437.4	439.1	440.8
120°	475.0	476.7	478.4	478.4	476.7	475.0	473.3	471.6	473.3	475.0	476.7
122.5°	510.7	511.8	513.0	512.6	510.6	508.5	506.5	504.4	506.5	508.5	510.6
125°	562.6	563.3	563.9	563.3	561.4	559.4	557.5	555.6	557.5	559.4	561.4
127.5°	614.4	615.2	616.0	615.1	612.7	610.3	607.8	605.5	607.8	610.3	612.7
130°	648.1	648.6	648.9	647.8	645.1	642.2	639.5	636.8	639.5	642.2	645.1
132.5°	682.2	682.1	682.0	680.9	678.6	676.4	674.1	671.8	674.1	676.4	678.6
135°	730.4	730.0	729.5	728.2	725.9	723.5	721.2	718.9	721.2	723.5	725.9
137.5°	778.3	777.7	777.2	775.9	774.0	772.1	770.2	768.3	770.2	772.1	774.0
140°	809.4	808.3	807.2	805.7	803.8	801.9	800.0	798.1	800.0	801.9	803.8
142.5°	839.1	838.3	837.6	836.3	834.3	832.5	830.6	828.7	830.6	832.5	834.3
145°	882.4	881.2	879.9	878.5	877.0	875.5	874.0	872.5	874.0	875.5	877.0
147.5°	921.8	921.0	920.1	918.8	917.0	915.3	913.5	911.7	913.5	915.3	917.0
150°	946.3	945.5	944.6	943.5	942.3	940.9	939.7	938.4	939.7	940.9	942.3
152.5°	970.3	969.4	968.4	967.2	965.9	964.7	963.4	962.1	963.4	964.7	965.9
155°	1002.1	1001.5	1000.8	1000.1	999.6	998.9	998.2	997.6	998.2	998.9	999.6
157.5°	1030.9	1030.5	1030.1	1029.6	1029.3	1028.8	1028.4	1027.9	1028.4	1028.8	1029.3
160°	1048.8	1048.6	1048.3	1048.0	1047.5	1047.2	1046.7	1046.3	1046.7	1047.2	1047.5
162.5°	1064.0	1063.8	1063.6	1063.5	1063.4	1063.3	1063.2	1063.1	1063.2	1063.3	1063.4
165°	1084.5	1084.5	1084.5	1084.6	1084.8	1085.1	1085.2	1085.4	1085.2	1085.1	1084.8
167.5°	1101.2	1101.3	1101.3	1101.6	1102.2	1102.9	1103.5	1104.2	1103.5	1102.9	1102.2
170°	1110.7	1110.9	1111.2	1111.5	1112.2	1112.9	1113.4	1114.1	1113.4	1112.9	1112.2
172.5°	1117.6	1117.8	1117.9	1118.4	1119.1	1119.6	1120.3	1121.0	1120.3	1119.6	1119.1
175°	1125.4	1125.9	1126.2	1126.8	1127.5	1128.1	1128.7	1129.4	1128.7	1128.1	1127.5
177.5°	1129.6	1130.0	1130.3	1130.8	1131.2	1131.8	1132.3	1132.8	1132.3	1131.8	1131.2
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2049.3	2045.2	2037.7	2026.1	2019.2	2007.1	1998.9	2003.6	2004.8	2003.6	2002.4
5°	1994.2	1979.1	1958.1	1937.9	1919.1	1898.8	1887.3	1882.3	1872.2	1866.3	1863.5
7.5°	1927.6	1901.5	1871.9	1836.6	1806.7	1775.4	1759.3	1751.3	1730.7	1719.5	1709.6
10°	1877.9	1836.7	1807.1	1761.0	1732.8	1691.6	1663.4	1664.2	1636.0	1620.0	1608.5
12.5°	1823.1	1777.8	1728.5	1687.0	1647.8	1614.8	1580.7	1567.1	1537.2	1521.8	1490.6
15°	1732.0	1679.3	1627.3	1570.9	1531.3	1480.0	1430.9	1370.9	1322.5	1280.6	1269.0
17.5°	1632.7	1567.4	1515.2	1449.1	1381.0	1294.8	1237.8	1203.1	1173.8	1151.8	1135.3
20°	1564.4	1498.0	1442.4	1342.7	1250.9	1192.5	1150.6	1123.9	1093.5	1069.7	1056.7
22.5°	1492.8	1423.4	1347.6	1236.4	1164.9	1117.9	1080.6	1049.9	1029.4	1010.8	998.9
25°	1391.1	1315.2	1190.3	1113.7	1055.9	1006.8	980.8	962.1	940.4	915.1	903.6
27.5°	1283.6	1163.0	1073.3	1016.3	961.2	929.3	905.9	877.9	858.5	847.1	835.1
30°	1203.3	1082.7	1012.7	950.6	911.5	876.1	848.7	832.8	814.0	794.5	786.6
32.5°	1113.7	1017.4	950.3	898.5	858.9	828.8	807.1	781.4	767.8	755.8	739.1
35°	1002.5	929.5	868.2	826.3	788.7	764.2	738.9	723.7	699.2	689.1	682.6
37.5°	908.3	845.1	799.3	755.1	725.3	698.1	682.7	658.6	647.9	633.9	620.2
40°	855.2	793.1	749.0	712.8	679.7	659.4	639.9	620.5	604.5	598.0	581.5
42.5°	800.9	750.3	706.2	666.7	644.4	623.0	598.3	584.0	567.6	557.0	546.8
45°	725.9	681.1	643.6	611.1	586.4	564.1	548.2	524.3	515.0	494.1	485.4
47.5°	660.1	618.4	582.6	551.7	527.7	513.1	489.8	471.2	456.2	443.4	432.3
50°	613.2	578.5	543.8	516.4	494.7	473.8	450.0	440.5	417.5	410.9	404.4
52.5°	570.4	537.5	505.8	478.9	457.2	436.9	415.8	403.6	388.0	381.5	376.7
55°	510.7	478.9	448.6	424.7	403.0	382.1	369.1	353.9	346.7	341.7	335.8
57.5°	450.5	422.0	398.7	374.6	352.8	336.1	321.1	312.0	304.5	297.8	291.0
60°	412.5	384.9	364.0	341.7	319.2	305.5	294.0	283.1	274.5	264.4	261.5
62.5°	371.9	348.0	328.8	307.0	287.5	274.9	263.9	253.6	243.3	228.6	224.5
65°	316.3	297.6	277.4	259.3	242.0	229.7	213.8	202.3	197.9	196.4	195.8
67.5°	266.1	248.4	231.0	212.4	196.7	185.3	177.3	175.5	172.5	171.6	169.6
70°	232.6	215.9	198.6	181.3	166.2	164.0	161.1	158.2	154.6	153.2	151.7
72.5°	202.6	185.3	168.0	154.1	147.6	144.9	142.0	139.1	136.7	135.3	134.3
75°	155.3	139.4	127.8	122.8	119.1	117.0	112.6	110.5	109.1	106.9	106.1
77.5°	111.8	102.8	97.6	94.3	90.6	88.2	85.8	83.6	82.1	81.6	80.5
80°	85.2	80.9	77.3	73.0	71.5	68.6	67.9	65.7	66.4	64.3	64.3
82.5°	66.2	60.7	57.7	55.6	54.2	51.8	51.2	50.1	50.2	48.6	48.6
85°	33.9	32.5	31.1	29.6	29.6	27.4	28.2	27.4	27.4	26.0	25.3
87.5°	13.2	13.4	13.1	14.0	15.0	15.4	15.3	14.6	14.5	14.4	13.9
90°	11.1	14.7	19.4	24.0	28.7	33.4	33.0	32.5	32.1	31.7	31.6
92.5°	24.5	25.9	27.1	28.2	29.2	30.3	30.4	30.5	30.6	30.7	30.7
95°	58.2	59.4	59.9	60.2	60.7	61.1	61.1	61.1	61.1	61.1	60.9
97.5°	98.1	99.5	100.3	101.1	101.9	102.7	102.7	102.7	102.7	102.7	102.7
100°	128.0	129.2	129.8	130.4	131.1	131.8	131.8	131.8	131.8	131.8	131.7
102.5°	158.7	159.9	160.6	161.5	162.2	163.1	163.2	163.4	163.5	163.7	163.7
105°	207.8	208.3	208.8	209.2	209.6	210.0	210.5	210.8	211.3	211.7	212.0
107.5°	261.3	261.7	261.7	261.7	261.7	261.7	261.9	262.1	262.3	262.4	262.0
110°	296.2	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.6



TEST NUMBER: P331854-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	332.9	333.5	333.3	333.1	333.0	332.8	332.2	331.8	331.3	330.7	330.3
115°	386.9	387.4	386.9	386.5	386.1	385.7	385.5	385.2	385.0	384.8	384.4
117.5°	442.5	442.7	441.6	440.4	439.2	438.0	437.5	437.0	436.5	435.9	435.4
120°	478.4	478.4	476.7	475.0	473.3	471.6	471.6	471.6	471.6	471.6	471.3
122.5°	512.6	513.0	511.8	510.7	509.4	508.2	507.7	507.3	506.7	506.2	505.8
125°	563.3	563.9	563.3	562.6	561.9	561.4	560.7	560.1	559.4	558.8	558.4
127.5°	615.1	616.0	615.2	614.4	613.7	612.9	612.1	611.3	610.6	609.8	609.1
130°	647.8	648.9	648.6	648.1	647.7	647.2	646.9	646.4	646.0	645.5	644.9
132.5°	680.9	682.0	682.1	682.2	682.3	682.4	681.5	680.5	679.6	678.6	677.9
135°	728.2	729.5	730.0	730.4	730.8	731.2	731.0	730.8	730.7	730.4	730.0
137.5°	775.9	777.2	777.7	778.3	778.8	779.4	779.2	779.0	778.9	778.7	778.2
140°	805.7	807.2	808.3	809.4	810.4	811.4	811.4	811.4	811.4	811.4	811.1
142.5°	836.3	837.6	838.3	839.1	839.8	840.5	840.7	840.8	841.0	841.1	840.8
145°	878.5	879.9	881.2	882.4	883.7	885.0	885.1	885.4	885.6	885.8	885.5
147.5°	918.8	920.1	921.0	921.8	922.7	923.5	924.0	924.4	924.9	925.4	925.2
150°	943.5	944.6	945.5	946.3	947.2	948.0	948.6	949.2	949.9	950.6	950.6
152.5°	967.2	968.4	969.4	970.3	971.4	972.4	973.2	974.0	974.9	975.6	975.6
155°	1000.1	1000.8	1001.5	1002.1	1002.7	1003.3	1004.4	1005.5	1006.5	1007.6	1007.8
157.5°	1029.6	1030.1	1030.5	1030.9	1031.2	1031.6	1033.0	1034.5	1035.9	1037.4	1037.6
160°	1048.0	1048.3	1048.6	1048.8	1049.0	1049.1	1050.5	1051.7	1053.0	1054.2	1054.5
162.5°	1063.5	1063.6	1063.8	1064.0	1064.2	1064.4	1065.9	1067.3	1068.7	1070.3	1070.4
165°	1084.6	1084.5	1084.5	1084.5	1084.5	1084.5	1086.0	1087.5	1088.9	1090.4	1090.6
167.5°	1101.6	1101.3	1101.3	1101.2	1101.2	1101.1	1102.6	1104.1	1105.6	1107.0	1107.2
170°	1111.5	1111.2	1110.9	1110.7	1110.5	1110.3	1111.7	1113.2	1114.7	1116.3	1116.3
172.5°	1118.4	1117.9	1117.8	1117.6	1117.4	1117.1	1118.6	1120.1	1121.6	1123.0	1123.2
175°	1126.8	1126.2	1125.9	1125.4	1125.0	1124.5	1126.1	1127.6	1129.1	1130.5	1130.7
177.5°	1130.8	1130.3	1130.0	1129.6	1129.4	1129.0	1130.0	1131.1	1132.0	1133.0	1133.0
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



TEST NUMBER: P331854-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1996.1	1997.2	1995.6	1996.7	1995.6	1997.2	1996.1	2002.4	2003.6	2004.8	2003.6
5°	1859.8	1851.2	1849.7	1847.6	1849.7	1851.2	1859.8	1863.5	1866.3	1872.2	1882.3
7.5°	1697.2	1695.9	1692.3	1687.2	1692.3	1695.9	1697.2	1709.6	1719.5	1730.7	1751.3
10°	1592.6	1589.0	1588.3	1583.2	1588.3	1589.0	1592.6	1608.5	1620.0	1636.0	1664.2
12.5°	1470.1	1446.9	1444.4	1431.8	1444.4	1446.9	1470.1	1490.6	1521.8	1537.2	1567.1
15°	1251.7	1247.4	1232.9	1223.5	1232.9	1247.4	1251.7	1269.0	1280.6	1322.5	1370.9
17.5°	1126.9	1112.8	1108.2	1106.3	1108.2	1112.8	1126.9	1135.3	1151.8	1173.8	1203.1
20°	1046.6	1033.6	1031.4	1030.0	1031.4	1033.6	1046.6	1056.7	1069.7	1093.5	1123.9
22.5°	991.1	977.5	971.9	967.5	971.9	977.5	991.1	998.9	1010.8	1029.4	1049.9
25°	896.4	891.3	888.4	886.9	888.4	891.3	896.4	903.6	915.1	940.4	962.1
27.5°	822.3	811.2	809.0	805.2	809.0	811.2	822.3	835.1	847.1	858.5	877.9
30°	780.0	776.5	771.4	767.0	771.4	776.5	780.0	786.6	794.5	814.0	832.8
32.5°	730.4	727.4	722.8	720.9	722.8	727.4	730.4	739.1	755.8	767.8	781.4
35°	675.3	665.2	660.9	654.4	660.9	665.2	675.3	682.6	689.1	699.2	723.7
37.5°	617.1	611.8	605.7	607.8	605.7	611.8	617.1	620.2	633.9	647.9	658.6
40°	572.0	568.4	567.0	566.3	567.0	568.4	572.0	581.5	598.0	604.5	620.5
42.5°	536.2	526.2	522.5	522.4	522.5	526.2	536.2	546.8	557.0	567.6	584.0
45°	481.7	472.4	465.9	466.6	465.9	472.4	481.7	485.4	494.1	515.0	524.3
47.5°	426.0	425.7	421.7	422.9	421.7	425.7	426.0	432.3	443.4	456.2	471.2
50°	399.4	395.1	392.2	392.9	392.2	395.1	399.4	404.4	410.9	417.5	440.5
52.5°	374.0	370.2	368.0	371.0	368.0	370.2	374.0	376.7	381.5	388.0	403.6
55°	332.2	327.9	327.2	326.5	327.2	327.9	332.2	335.8	341.7	346.7	353.9
57.5°	285.6	282.7	278.3	276.4	278.3	282.7	285.6	291.0	297.8	304.5	312.0
60°	252.0	246.3	239.0	238.4	239.0	246.3	252.0	261.5	264.4	274.5	283.1
62.5°	221.4	220.3	218.9	218.7	218.9	220.3	221.4	224.5	228.6	243.3	253.6
65°	194.3	193.6	194.3	195.0	194.3	193.6	194.3	195.8	196.4	197.9	202.3
67.5°	169.3	168.0	166.7	167.3	166.7	168.0	169.3	169.6	171.6	172.5	175.5
70°	150.2	149.5	148.8	148.8	148.8	149.5	150.2	151.7	153.2	154.6	158.2
72.5°	131.8	131.6	130.9	130.3	130.9	131.6	131.8	134.3	135.3	136.7	139.1
75°	105.5	104.0	104.0	104.0	104.0	104.0	105.5	106.1	106.9	109.1	110.5
77.5°	80.3	79.6	78.9	78.3	78.9	79.6	80.3	80.5	81.6	82.1	83.6
80°	63.5	62.9	62.1	62.1	62.1	62.9	63.5	64.3	64.3	66.4	65.7
82.5°	48.5	47.8	47.7	47.1	47.7	47.8	48.5	48.6	48.6	50.2	50.1
85°	26.0	26.8	26.0	27.4	26.0	26.8	26.0	25.3	26.0	27.4	27.4
87.5°	13.9	13.4	13.9	13.4	13.9	13.4	13.9	13.9	14.4	14.5	14.6
90°	31.9	32.0	32.2	32.4	32.2	32.0	31.9	31.6	31.7	32.1	32.5
92.5°	30.8	30.8	30.9	30.9	30.9	30.8	30.8	30.7	30.7	30.6	30.5
95°	60.4	60.0	59.6	59.2	59.6	60.0	60.4	60.9	61.1	61.1	61.1
97.5°	102.6	102.6	102.5	102.5	102.5	102.6	102.6	102.7	102.7	102.7	102.7
100°	131.4	131.2	131.0	130.8	131.0	131.2	131.4	131.7	131.8	131.8	131.8
102.5°	163.5	163.2	163.1	162.9	163.1	163.2	163.5	163.7	163.7	163.5	163.4
105°	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0	211.7	211.3	210.8
107.5°	261.1	260.0	259.1	258.2	259.1	260.0	261.1	262.0	262.4	262.3	262.1
110°	296.0	295.3	294.6	294.1	294.6	295.3	296.0	296.6	296.9	296.9	296.9



TEST NUMBER: P331854-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	329.8	329.3	328.9	328.4	328.9	329.3	329.8	330.3	330.7	331.3	331.8
115°	383.8	383.1	382.5	381.8	382.5	383.1	383.8	384.4	384.8	385.0	385.2
117.5°	434.8	434.1	433.5	432.8	433.5	434.1	434.8	435.4	435.9	436.5	437.0
120°	470.6	470.0	469.4	468.7	469.4	470.0	470.6	471.3	471.6	471.6	471.6
122.5°	505.3	504.8	504.4	503.9	504.4	504.8	505.3	505.8	506.2	506.7	507.3
125°	558.2	558.0	557.7	557.5	557.7	558.0	558.2	558.4	558.8	559.4	560.1
127.5°	608.4	607.8	607.1	606.4	607.1	607.8	608.4	609.1	609.8	610.6	611.3
130°	644.0	643.2	642.3	641.5	642.3	643.2	644.0	644.9	645.5	646.0	646.4
132.5°	677.2	676.5	675.8	675.1	675.8	676.5	677.2	677.9	678.6	679.6	680.5
135°	729.3	728.7	728.1	727.5	728.1	728.7	729.3	730.0	730.4	730.7	730.8
137.5°	777.3	776.5	775.6	774.8	775.6	776.5	777.3	778.2	778.7	778.9	779.0
140°	810.2	809.4	808.5	807.7	808.5	809.4	810.2	811.1	811.4	811.4	811.4
142.5°	840.0	839.1	838.3	837.4	838.3	839.1	840.0	840.8	841.1	841.0	840.8
145°	884.7	883.8	883.0	882.1	883.0	883.8	884.7	885.5	885.8	885.6	885.4
147.5°	924.4	923.6	922.8	922.0	922.8	923.6	924.4	925.2	925.4	924.9	924.4
150°	949.9	949.2	948.6	948.0	948.6	949.2	949.9	950.6	950.6	949.9	949.2
152.5°	974.9	974.0	973.2	972.4	973.2	974.0	974.9	975.6	975.6	974.9	974.0
155°	1007.2	1006.5	1005.9	1005.2	1005.9	1006.5	1007.2	1007.8	1007.6	1006.5	1005.5
157.5°	1036.6	1035.6	1034.5	1033.5	1034.5	1035.6	1036.6	1037.6	1037.4	1035.9	1034.5
160°	1053.7	1052.8	1052.0	1051.1	1052.0	1052.8	1053.7	1054.5	1054.2	1053.0	1051.7
162.5°	1069.4	1068.4	1067.3	1066.4	1067.3	1068.4	1069.4	1070.4	1070.3	1068.7	1067.3
165°	1089.6	1088.5	1087.5	1086.4	1087.5	1088.5	1089.6	1090.6	1090.4	1088.9	1087.5
167.5°	1106.2	1105.0	1103.9	1102.9	1103.9	1105.0	1106.2	1107.2	1107.0	1105.6	1104.1
170°	1115.0	1113.8	1112.5	1111.3	1112.5	1113.8	1115.0	1116.3	1116.3	1114.7	1113.2
172.5°	1121.9	1120.7	1119.4	1118.1	1119.4	1120.7	1121.9	1123.2	1123.0	1121.6	1120.1
175°	1129.4	1128.1	1126.8	1125.6	1126.8	1128.1	1129.4	1130.7	1130.5	1129.1	1127.6
177.5°	1132.0	1131.1	1130.0	1129.0	1130.0	1131.1	1132.0	1133.0	1133.0	1132.0	1131.1
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	1998.9	2007.1	2019.2	2026.1	2037.7	2045.2	2049.3	2056.7	2060.8	2075.3	2090.3
5°	1887.3	1898.8	1919.1	1937.9	1958.1	1979.1	1994.2	2011.6	2027.4	2054.8	2083.8
7.5°	1759.3	1775.4	1806.7	1836.6	1871.9	1901.5	1927.6	1957.2	1983.7	2023.0	2064.0
10°	1663.4	1691.6	1732.8	1761.0	1807.1	1836.7	1877.9	1910.4	1947.3	1999.2	2045.5
12.5°	1580.7	1614.8	1647.8	1687.0	1728.5	1777.8	1823.1	1864.8	1908.6	1962.3	2016.6
15°	1430.9	1480.0	1531.3	1570.9	1627.3	1679.3	1732.0	1788.4	1841.8	1906.1	1976.9
17.5°	1237.8	1294.8	1381.0	1449.1	1515.2	1567.4	1632.7	1700.8	1763.8	1841.4	1920.1
20°	1150.6	1192.5	1250.9	1342.7	1442.4	1498.0	1564.4	1639.6	1711.8	1796.3	1880.8
22.5°	1080.6	1117.9	1164.9	1236.4	1347.6	1423.4	1492.8	1569.1	1652.8	1739.1	1832.9
25°	980.8	1006.8	1055.9	1113.7	1190.3	1315.2	1391.1	1467.6	1558.7	1651.1	1758.0
27.5°	905.9	929.3	961.2	1016.3	1073.3	1163.0	1283.6	1367.2	1457.8	1561.9	1672.8
30°	848.7	876.1	911.5	950.6	1012.7	1082.7	1203.3	1300.1	1389.7	1496.6	1615.0
32.5°	807.1	828.8	858.9	898.5	950.3	1017.4	1113.7	1231.3	1318.6	1431.3	1554.9
35°	738.9	764.2	788.7	826.3	868.2	929.5	1002.5	1128.2	1214.8	1326.1	1450.3
37.5°	682.7	698.1	725.3	755.1	799.3	845.1	908.3	1021.1	1114.7	1224.0	1351.1
40°	639.9	659.4	679.7	712.8	749.0	793.1	855.2	939.0	1046.6	1153.5	1277.7
42.5°	598.3	623.0	644.4	666.7	706.2	750.3	800.9	871.9	981.8	1083.0	1203.7
45°	548.2	564.1	586.4	611.1	643.6	681.1	725.9	788.0	893.4	980.8	1094.3
47.5°	489.8	513.1	527.7	551.7	582.6	618.4	660.1	713.8	799.1	881.0	986.2
50°	450.0	473.8	494.7	516.4	543.8	578.5	613.2	665.2	733.9	819.8	918.0
52.5°	415.8	436.9	457.2	478.9	505.8	537.5	570.4	616.1	674.9	753.9	849.2
55°	369.1	382.1	403.0	424.7	448.6	478.9	510.7	548.9	599.5	665.9	743.2
57.5°	321.1	336.1	352.8	374.6	398.7	422.0	450.5	485.2	525.1	585.2	651.4
60°	294.0	305.5	319.2	341.7	364.0	384.9	412.5	441.3	478.9	530.8	587.2
62.5°	263.9	274.9	287.5	307.0	328.8	348.0	371.9	402.6	434.4	481.7	531.1
65°	213.8	229.7	242.0	259.3	277.4	297.6	316.3	340.9	369.1	406.6	450.7
67.5°	177.3	185.3	196.7	212.4	231.0	248.4	266.1	285.3	309.7	338.7	373.7
70°	161.1	164.0	166.2	181.3	198.6	215.9	232.6	250.6	271.5	295.4	325.7
72.5°	142.0	144.9	147.6	154.1	168.0	185.3	202.6	215.9	235.7	255.5	280.1
75°	112.6	117.0	119.1	122.8	127.8	139.4	155.3	168.2	179.8	195.0	214.5
77.5°	85.8	88.2	90.6	94.3	97.6	102.8	111.8	123.5	134.3	143.2	156.6
80°	67.9	68.6	71.5	73.0	77.3	80.9	85.2	94.6	105.5	109.1	118.5
82.5°	51.2	51.8	54.2	55.6	57.7	60.7	66.2	68.6	77.1	81.9	87.8
85°	28.2	27.4	29.6	29.6	31.1	32.5	33.9	37.5	39.7	45.5	46.9
87.5°	15.3	15.4	15.0	14.0	13.1	13.4	13.2	13.3	13.9	15.2	17.0
90°	33.0	33.4	28.7	24.0	19.4	14.7	11.1	8.6	6.0	3.5	0.9
92.5°	30.4	30.3	29.2	28.2	27.1	25.9	24.5	22.6	20.7	18.9	17.0
95°	61.1	61.1	60.7	60.2	59.9	59.4	58.2	56.0	53.9	51.7	49.7
97.5°	102.7	102.7	101.9	101.1	100.3	99.5	98.1	96.3	94.4	92.6	90.7
100°	131.8	131.8	131.1	130.4	129.8	129.2	128.0	126.3	124.6	122.9	121.2
102.5°	163.2	163.1	162.2	161.5	160.6	159.9	158.7	157.4	156.0	154.7	153.4
105°	210.5	210.0	209.6	209.2	208.8	208.3	207.8	207.2	206.5	205.9	205.3
107.5°	261.9	261.7	261.7	261.7	261.7	261.7	261.3	260.3	259.4	258.5	257.6
110°	296.9	296.9	296.9	296.9	296.9	296.9	296.2	295.0	293.7	292.5	291.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	332.2	332.8	333.0	333.1	333.3	333.5	332.9	331.7	330.4	329.1	327.8
115°	385.5	385.7	386.1	386.5	386.9	387.4	386.9	385.7	384.4	383.1	381.8
117.5°	437.5	438.0	439.2	440.4	441.6	442.7	442.5	440.8	439.1	437.4	435.7
120°	471.6	471.6	473.3	475.0	476.7	478.4	478.4	476.7	475.0	473.3	471.6
122.5°	507.7	508.2	509.4	510.7	511.8	513.0	512.6	510.6	508.5	506.5	504.4
125°	560.7	561.4	561.9	562.6	563.3	563.9	563.3	561.4	559.4	557.5	555.6
127.5°	612.1	612.9	613.7	614.4	615.2	616.0	615.1	612.7	610.3	607.8	605.5
130°	646.9	647.2	647.7	648.1	648.6	648.9	647.8	645.1	642.2	639.5	636.8
132.5°	681.5	682.4	682.3	682.2	682.1	682.0	680.9	678.6	676.4	674.1	671.8
135°	731.0	731.2	730.8	730.4	730.0	729.5	728.2	725.9	723.5	721.2	718.9
137.5°	779.2	779.4	778.8	778.3	777.7	777.2	775.9	774.0	772.1	770.2	768.3
140°	811.4	811.4	810.4	809.4	808.3	807.2	805.7	803.8	801.9	800.0	798.1
142.5°	840.7	840.5	839.8	839.1	838.3	837.6	836.3	834.3	832.5	830.6	828.7
145°	885.1	885.0	883.7	882.4	881.2	879.9	878.5	877.0	875.5	874.0	872.5
147.5°	924.0	923.5	922.7	921.8	921.0	920.1	918.8	917.0	915.3	913.5	911.7
150°	948.6	948.0	947.2	946.3	945.5	944.6	943.5	942.3	940.9	939.7	938.4
152.5°	973.2	972.4	971.4	970.3	969.4	968.4	967.2	965.9	964.7	963.4	962.1
155°	1004.4	1003.3	1002.7	1002.1	1001.5	1000.8	1000.1	999.6	998.9	998.2	997.6
157.5°	1033.0	1031.6	1031.2	1030.9	1030.5	1030.1	1029.6	1029.3	1028.8	1028.4	1027.9
160°	1050.5	1049.1	1049.0	1048.8	1048.6	1048.3	1048.0	1047.5	1047.2	1046.7	1046.3
162.5°	1065.9	1064.4	1064.2	1064.0	1063.8	1063.6	1063.5	1063.4	1063.3	1063.2	1063.1
165°	1086.0	1084.5	1084.5	1084.5	1084.5	1084.5	1084.6	1084.8	1085.1	1085.2	1085.4
167.5°	1102.6	1101.1	1101.2	1101.2	1101.3	1101.3	1101.6	1102.2	1102.9	1103.5	1104.2
170°	1111.7	1110.3	1110.5	1110.7	1110.9	1111.2	1111.5	1112.2	1112.9	1113.4	1114.1
172.5°	1118.6	1117.1	1117.4	1117.6	1117.8	1117.9	1118.4	1119.1	1119.6	1120.3	1121.0
175°	1126.1	1124.5	1125.0	1125.4	1125.9	1126.2	1126.8	1127.5	1128.1	1128.7	1129.4
177.5°	1130.0	1129.0	1129.4	1129.6	1130.0	1130.3	1130.8	1131.2	1131.8	1132.3	1132.8
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2090.8	2092.5	2104.1	2109.3	2119.8	2123.7	2128.4	2127.2	2127.2	2129.6	2145.7
5°	2095.4	2109.8	2131.5	2152.4	2172.7	2189.9	2201.5	2213.1	2217.4	2238.4	2257.1
7.5°	2087.8	2114.4	2150.2	2182.2	2220.4	2250.3	2275.2	2297.5	2312.9	2343.3	2374.5
10°	2078.0	2115.5	2156.0	2197.2	2249.8	2289.6	2330.1	2361.2	2371.2	2416.8	2442.8
12.5°	2058.3	2108.7	2160.0	2213.4	2264.9	2319.7	2364.2	2395.2	2430.7	2471.6	2519.6
15°	2028.9	2086.7	2153.8	2222.4	2296.1	2362.6	2410.3	2464.4	2503.4	2548.2	2590.1
17.5°	1986.6	2061.0	2146.4	2225.8	2311.0	2382.4	2448.0	2499.9	2527.4	2553.0	2559.2
20°	1953.0	2033.3	2133.6	2227.5	2312.7	2395.1	2460.0	2503.4	2510.7	2511.3	2473.0
22.5°	1916.7	2007.2	2112.2	2208.5	2310.5	2402.0	2452.6	2471.1	2442.4	2393.5	2319.4
25°	1849.7	1954.5	2076.5	2186.3	2297.5	2384.3	2401.6	2369.1	2268.7	2163.2	2029.6
27.5°	1777.3	1895.0	2025.8	2147.9	2266.3	2320.1	2282.6	2165.5	1984.7	1827.5	1637.0
30°	1724.1	1856.2	1984.8	2121.3	2231.1	2254.2	2168.3	1995.6	1784.7	1547.8	1357.9
32.5°	1663.4	1802.0	1943.2	2084.3	2176.2	2153.7	2011.7	1799.2	1551.9	1319.0	1139.4
35°	1576.7	1719.8	1872.2	2013.7	2072.2	1974.7	1762.4	1485.7	1232.9	1015.5	892.0
37.5°	1476.6	1632.4	1790.8	1920.8	1916.7	1754.2	1464.9	1179.3	966.9	838.3	750.3
40°	1405.5	1563.0	1734.2	1844.0	1797.1	1585.4	1272.0	1002.5	847.3	744.7	680.4
42.5°	1337.4	1495.4	1665.5	1752.7	1671.0	1410.9	1098.6	887.5	759.4	679.4	627.3
45°	1221.3	1388.2	1545.7	1594.0	1448.1	1161.4	888.4	735.3	650.1	590.8	554.7
47.5°	1108.0	1272.1	1415.8	1416.6	1219.4	941.9	749.4	636.3	563.5	517.7	491.4
50°	1038.6	1194.7	1315.2	1296.5	1072.6	837.8	670.2	572.8	512.1	476.7	449.2
52.5°	960.6	1112.0	1216.4	1163.0	948.4	737.3	599.2	517.3	467.0	436.2	411.7
55°	847.3	981.6	1055.3	974.3	773.5	613.2	506.3	442.1	404.4	378.4	357.5
57.5°	735.8	846.7	893.1	798.8	637.2	508.5	428.3	380.0	342.8	324.1	313.3
60°	665.9	760.5	793.1	689.1	554.0	444.9	379.2	334.4	307.0	294.7	283.9
62.5°	597.2	674.5	687.9	592.6	483.0	389.5	333.0	295.1	276.9	265.2	255.0
65°	495.5	551.1	544.6	468.1	382.1	309.2	268.0	244.9	231.1	214.5	196.4
67.5°	407.9	441.9	421.4	364.0	291.6	240.3	213.4	195.9	178.8	163.1	158.9
70°	352.5	371.9	350.3	297.6	239.0	201.5	179.8	158.9	148.8	145.2	138.6
72.5°	299.4	306.1	282.7	237.5	194.5	166.8	145.7	134.0	128.6	125.5	121.3
75°	224.6	219.6	199.3	164.0	135.1	116.3	109.8	105.5	101.8	99.0	96.8
77.5°	157.8	150.3	132.3	109.2	94.1	85.1	81.2	78.9	77.1	75.7	73.5
80°	118.5	113.4	95.4	78.0	71.5	67.2	65.0	62.1	62.1	60.7	58.5
82.5°	86.7	81.1	65.3	57.2	53.6	51.0	49.4	47.7	47.1	47.4	45.8
85°	45.5	36.9	32.5	31.1	28.9	27.4	28.2	26.8	26.8	26.8	26.0
87.5°	14.6	12.2	12.2	12.1	13.4	14.3	14.6	15.6	17.1	16.4	16.9
90°	3.5	6.0	8.6	11.1	14.7	19.4	24.0	28.7	33.4	33.0	32.5
92.5°	18.9	20.7	22.6	24.5	25.9	27.1	28.2	29.2	30.3	30.4	30.5
95°	51.7	53.9	56.0	58.2	59.4	59.9	60.2	60.7	61.1	61.1	61.1
97.5°	92.6	94.4	96.3	98.1	99.5	100.3	101.1	101.9	102.7	102.7	102.7
100°	122.9	124.6	126.3	128.0	129.2	129.8	130.4	131.1	131.8	131.8	131.8
102.5°	154.7	156.0	157.4	158.7	159.9	160.6	161.5	162.2	163.1	163.2	163.4
105°	205.9	206.5	207.2	207.8	208.3	208.8	209.2	209.6	210.0	210.5	210.8
107.5°	258.5	259.4	260.3	261.3	261.7	261.7	261.7	261.7	261.7	261.9	262.1
110°	292.5	293.7	295.0	296.2	296.9	296.9	296.9	296.9	296.9	296.9	296.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	329.1	330.4	331.7	332.9	333.5	333.3	333.1	333.0	332.8	332.2	331.8
115°	383.1	384.4	385.7	386.9	387.4	386.9	386.5	386.1	385.7	385.5	385.2
117.5°	437.4	439.1	440.8	442.5	442.7	441.6	440.4	439.2	438.0	437.5	437.0
120°	473.3	475.0	476.7	478.4	478.4	476.7	475.0	473.3	471.6	471.6	471.6
122.5°	506.5	508.5	510.6	512.6	513.0	511.8	510.7	509.4	508.2	507.7	507.3
125°	557.5	559.4	561.4	563.3	563.9	563.3	562.6	561.9	561.4	560.7	560.1
127.5°	607.8	610.3	612.7	615.1	616.0	615.2	614.4	613.7	612.9	612.1	611.3
130°	639.5	642.2	645.1	647.8	648.9	648.6	648.1	647.7	647.2	646.9	646.4
132.5°	674.1	676.4	678.6	680.9	682.0	682.1	682.2	682.3	682.4	681.5	680.5
135°	721.2	723.5	725.9	728.2	729.5	730.0	730.4	730.8	731.2	731.0	730.8
137.5°	770.2	772.1	774.0	775.9	777.2	777.7	778.3	778.8	779.4	779.2	779.0
140°	800.0	801.9	803.8	805.7	807.2	808.3	809.4	810.4	811.4	811.4	811.4
142.5°	830.6	832.5	834.3	836.3	837.6	838.3	839.1	839.8	840.5	840.7	840.8
145°	874.0	875.5	877.0	878.5	879.9	881.2	882.4	883.7	885.0	885.1	885.4
147.5°	913.5	915.3	917.0	918.8	920.1	921.0	921.8	922.7	923.5	924.0	924.4
150°	939.7	940.9	942.3	943.5	944.6	945.5	946.3	947.2	948.0	948.6	949.2
152.5°	963.4	964.7	965.9	967.2	968.4	969.4	970.3	971.4	972.4	973.2	974.0
155°	998.2	998.9	999.6	1000.1	1000.8	1001.5	1002.1	1002.7	1003.3	1004.4	1005.5
157.5°	1028.4	1028.8	1029.3	1029.6	1030.1	1030.5	1030.9	1031.2	1031.6	1033.0	1034.5
160°	1046.7	1047.2	1047.5	1048.0	1048.3	1048.6	1048.8	1049.0	1049.1	1050.5	1051.7
162.5°	1063.2	1063.3	1063.4	1063.5	1063.6	1063.8	1064.0	1064.2	1064.4	1065.9	1067.3
165°	1085.2	1085.1	1084.8	1084.6	1084.5	1084.5	1084.5	1084.5	1084.5	1086.0	1087.5
167.5°	1103.5	1102.9	1102.2	1101.6	1101.3	1101.3	1101.2	1101.2	1101.1	1102.6	1104.1
170°	1113.4	1112.9	1112.2	1111.5	1111.2	1110.9	1110.7	1110.5	1110.3	1111.7	1113.2
172.5°	1120.3	1119.6	1119.1	1118.4	1117.9	1117.8	1117.6	1117.4	1117.1	1118.6	1120.1
175°	1128.7	1128.1	1127.5	1126.8	1126.2	1125.9	1125.4	1125.0	1124.5	1126.1	1127.6
177.5°	1132.3	1131.8	1131.2	1130.8	1130.3	1130.0	1129.6	1129.4	1129.0	1130.0	1131.1
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7	2078.7
2.5°	2151.5	2159.0	2162.5	2162.5	2166.5	2164.8	2163.0
5°	2275.2	2288.9	2291.8	2304.8	2314.1	2311.3	2312.7
7.5°	2398.1	2420.2	2442.0	2452.0	2453.5	2459.4	2461.5
10°	2473.8	2491.9	2525.8	2520.7	2546.0	2560.5	2536.7
12.5°	2546.6	2571.0	2594.5	2601.0	2615.4	2620.0	2610.6
15°	2612.4	2625.5	2627.0	2623.3	2627.6	2624.0	2610.3
17.5°	2550.9	2529.9	2487.1	2466.8	2450.8	2427.1	2417.6
20°	2449.2	2387.1	2314.9	2286.0	2252.0	2185.6	2201.5
22.5°	2229.7	2158.9	2086.7	2002.3	1962.0	1899.0	1895.3
25°	1888.0	1765.9	1631.6	1537.8	1482.8	1420.0	1392.5
27.5°	1467.9	1314.3	1204.2	1148.4	1097.7	1047.9	1045.8
30°	1191.8	1076.2	991.0	943.3	912.2	891.3	895.6
32.5°	1004.6	925.4	867.9	828.3	805.3	789.6	789.3
35°	821.2	767.0	730.2	713.6	697.0	685.4	686.2
37.5°	702.8	670.2	649.8	631.4	621.0	615.4	612.2
40°	642.1	615.4	599.5	588.6	579.9	572.0	570.6
42.5°	594.2	572.0	556.2	547.6	539.5	534.0	532.4
45°	527.3	509.2	494.7	485.4	481.7	476.7	476.7
47.5°	469.0	451.3	440.0	434.1	427.9	424.5	424.4
50°	429.8	416.0	406.0	402.3	397.3	395.1	394.4
52.5°	394.5	384.3	377.0	374.6	372.4	369.7	370.1
55°	346.7	340.9	338.0	335.8	332.2	327.9	330.8
57.5°	306.4	301.5	293.7	286.9	283.6	280.5	281.7
60°	278.1	268.0	257.9	249.9	247.7	241.2	241.2
62.5°	242.2	228.1	215.7	211.2	209.1	206.0	205.4
65°	186.3	180.6	177.7	174.7	173.3	173.3	171.9
67.5°	154.4	152.1	148.9	148.2	146.8	146.4	145.9
70°	136.5	133.7	132.1	131.5	130.0	130.7	128.6
72.5°	119.1	116.9	116.6	114.7	113.9	114.0	112.4
75°	93.9	93.9	93.2	92.5	91.0	90.3	91.0
77.5°	72.2	72.4	71.1	71.0	70.8	71.0	70.2
80°	57.8	58.5	57.8	57.0	56.4	57.0	56.4
82.5°	45.6	44.7	44.5	44.4	44.2	43.7	43.6
85°	26.0	26.8	26.0	25.3	25.3	25.3	26.0
87.5°	16.2	16.2	16.1	16.2	16.2	16.3	15.7
90°	32.1	31.7	31.6	31.9	32.0	32.2	32.4
92.5°	30.6	30.7	30.7	30.8	30.8	30.9	30.9
95°	61.1	61.1	60.9	60.4	60.0	59.6	59.2
97.5°	102.7	102.7	102.7	102.6	102.6	102.5	102.5
100°	131.8	131.8	131.7	131.4	131.2	131.0	130.8
102.5°	163.5	163.7	163.7	163.5	163.2	163.1	162.9
105°	211.3	211.7	212.0	212.0	212.0	212.0	212.0
107.5°	262.3	262.4	262.0	261.1	260.0	259.1	258.2
110°	296.9	296.9	296.6	296.0	295.3	294.6	294.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	331.3	330.7	330.3	329.8	329.3	328.9	328.4
115°	385.0	384.8	384.4	383.8	383.1	382.5	381.8
117.5°	436.5	435.9	435.4	434.8	434.1	433.5	432.8
120°	471.6	471.6	471.3	470.6	470.0	469.4	468.7
122.5°	506.7	506.2	505.8	505.3	504.8	504.4	503.9
125°	559.4	558.8	558.4	558.2	558.0	557.7	557.5
127.5°	610.6	609.8	609.1	608.4	607.8	607.1	606.4
130°	646.0	645.5	644.9	644.0	643.2	642.3	641.5
132.5°	679.6	678.6	677.9	677.2	676.5	675.8	675.1
135°	730.7	730.4	730.0	729.3	728.7	728.1	727.5
137.5°	778.9	778.7	778.2	777.3	776.5	775.6	774.8
140°	811.4	811.4	811.1	810.2	809.4	808.5	807.7
142.5°	841.0	841.1	840.8	840.0	839.1	838.3	837.4
145°	885.6	885.8	885.5	884.7	883.8	883.0	882.1
147.5°	924.9	925.4	925.2	924.4	923.6	922.8	922.0
150°	949.9	950.6	950.6	949.9	949.2	948.6	948.0
152.5°	974.9	975.6	975.6	974.9	974.0	973.2	972.4
155°	1006.5	1007.6	1007.8	1007.2	1006.5	1005.9	1005.2
157.5°	1035.9	1037.4	1037.6	1036.6	1035.6	1034.5	1033.5
160°	1053.0	1054.2	1054.5	1053.7	1052.8	1052.0	1051.1
162.5°	1068.7	1070.3	1070.4	1069.4	1068.4	1067.3	1066.4
165°	1088.9	1090.4	1090.6	1089.6	1088.5	1087.5	1086.4
167.5°	1105.6	1107.0	1107.2	1106.2	1105.0	1103.9	1102.9
170°	1114.7	1116.3	1116.3	1115.0	1113.8	1112.5	1111.3
172.5°	1121.6	1123.0	1123.2	1121.9	1120.7	1119.4	1118.1
175°	1129.1	1130.5	1130.7	1129.4	1128.1	1126.8	1125.6
177.5°	1132.0	1133.0	1133.0	1132.0	1131.1	1130.0	1129.0
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2

(END OF REPORT)