

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: P331598-935

Luminaire Tested: **S122DIW-S1005D970U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331598-935  
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: S122DIW-S1005D970U935-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6681.5 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

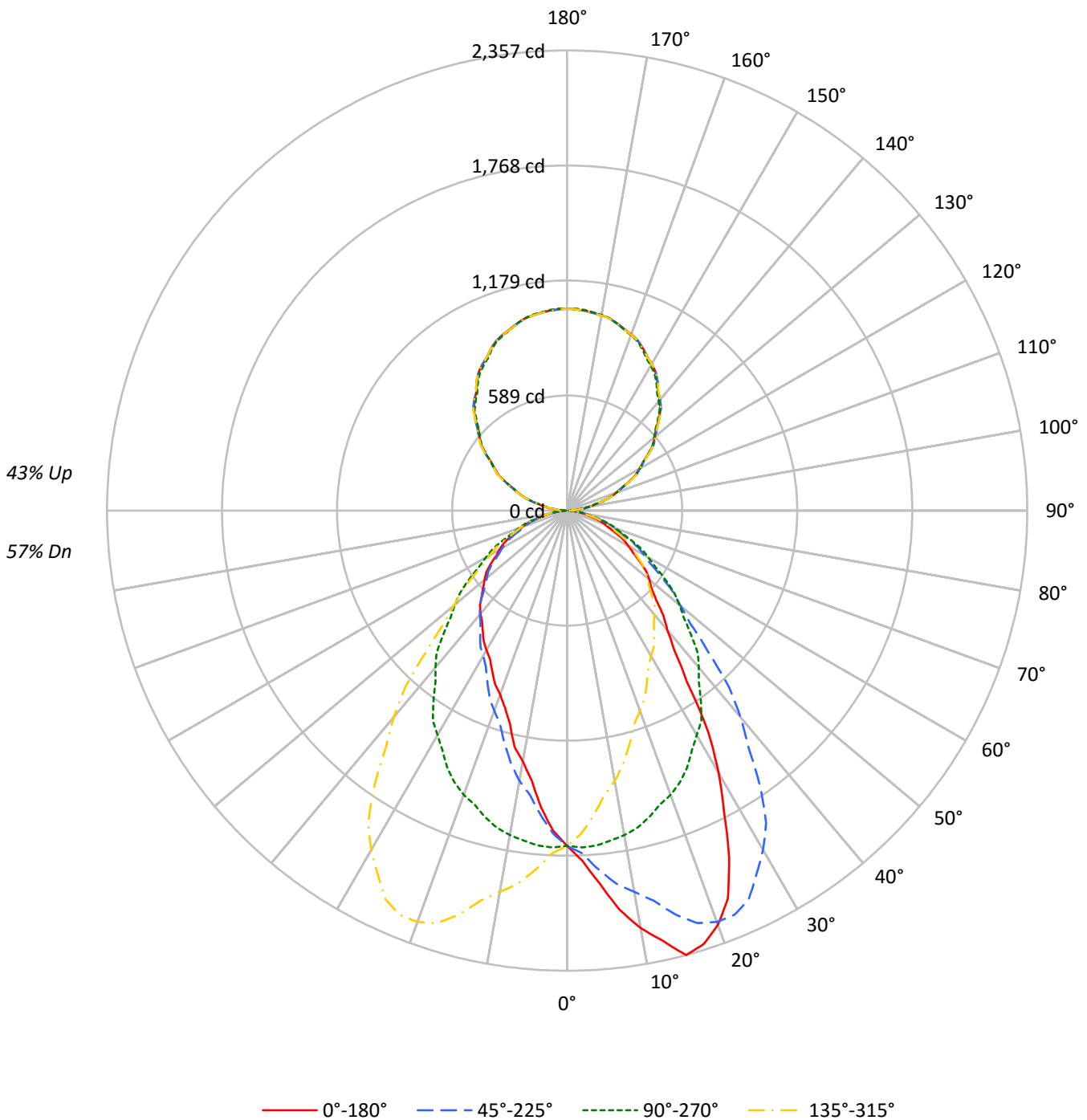
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	56	55	54	49
2	91	84	78	73	85	79	73	69	68	64	61	59	56	53	50	48	46	42
3	84	74	67	62	78	70	63	58	61	56	52	52	49	46	45	42	40	36
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	35	31
5	71	59	51	46	66	56	49	43	49	43	39	43	38	35	37	33	31	28
6	65	54	46	40	61	50	43	38	44	39	34	39	34	31	33	30	27	25
7	61	49	41	35	56	46	39	34	40	35	31	35	31	28	31	27	25	22
8	56	44	37	31	53	42	35	30	37	31	27	33	28	25	28	25	22	20
9	53	41	33	28	49	38	32	27	34	29	25	30	26	22	26	23	20	18
10	49	37	30	25	46	35	29	24	32	26	22	28	23	20	24	21	18	17

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

	0°	90°	180°	270°
0°	27719	27719	27719	27719
5°	31076	27901	24725	27901
10°	35611	27671	21397	27671
15°	39397	27164	18903	27164
20°	38797	26620	17234	26620
25°	34983	25896	16174	25896
30°	28909	24738	15401	24738
35°	21068	23526	14852	23526
40°	16828	22097	14547	22097
45°	14705	20445	14132	20445
50°	13823	18844	13855	18844
55°	12740	17219	13486	17219
60°	11677	15490	12910	15490
65°	10636	13941	12351	13941
70°	9659	12430	11528	12430
75°	8559	10742	10212	10742
80°	7364	8898	8219	8898
85°	6595	6595	4891	6595



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.5	2.4
10°-20°	475.3	7.1
20°-30°	689.9	10.3
30°-40°	728.0	10.9
40°-50°	644.6	9.6
50°-60°	514.4	7.7
60°-70°	349.6	5.2
70°-80°	179.3	2.7
80°-90°	47.3	0.7
90°-100°	65.5	1.0
100°-110°	203.4	3.0
110°-120°	347.6	5.2
120°-130°	457.2	6.8
130°-140°	513.1	7.7
140°-150°	503.1	7.5
150°-160°	422.0	6.3
160°-170°	279.9	4.2
170°-180°	97.8	1.5
0°-30°	1328.7	19.9
0°-40°	2056.7	30.8
0°-60°	3215.7	48.1
0°-90°	3791.9	56.8
90°-120°	616.5	9.2
90°-150°	2089.9	31.3
90°-180°	2890.0	43.3
0°-180°	6681.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1717	1717	1717	1717	1717	
5°	1917	1722	1526	1722	1917	191
15°	2357	1625	1131	1625	2357	650
25°	1964	1454	908	1454	1964	888
35°	1069	1194	754	1194	1069	695
45°	644	895	619	895	644	506
55°	453	612	479	612	453	406
65°	278	365	323	365	278	277
75°	137	172	164	172	137	147
85°	36	36	26	36	36	40
90°	30	1	30	1	30	15
95°	54	45	54	45	54	60
105°	194	188	194	188	194	204
115°	349	349	349	349	349	344
125°	509	508	509	508	509	454
135°	664	657	664	657	664	511
145°	806	797	806	797	806	503
155°	918	911	918	911	918	423
165°	992	992	992	992	992	280
175°	1028	1032	1028	1032	1028	98
180°	1033	1033	1033	1033	1033	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1796.0	1796.6	1797.6	1789.2	1788.1	1788.1	1780.7	1774.4	1767.0	1757.0	1758.1
5°	1917.4	1924.7	1927.3	1919.4	1907.5	1906.3	1895.1	1876.5	1859.4	1845.6	1835.7
7.5°	2062.4	2065.3	2058.8	2048.4	2039.5	2023.7	2002.9	1982.4	1953.8	1927.5	1908.0
10°	2172.1	2176.1	2164.9	2149.7	2137.2	2118.7	2088.4	2057.4	2019.7	1983.5	1954.4
12.5°	2255.6	2265.3	2250.9	2248.9	2227.5	2202.1	2165.9	2150.3	2097.3	2046.8	2015.7
15°	2356.9	2356.2	2357.6	2345.0	2329.2	2325.2	2287.0	2245.4	2170.8	2141.1	2089.6
17.5°	2327.6	2337.6	2342.3	2342.1	2341.7	2339.3	2326.9	2300.7	2263.3	2215.2	2155.8
20°	2258.0	2271.1	2273.1	2288.3	2296.9	2308.1	2312.7	2305.4	2282.3	2242.1	2190.6
22.5°	2150.3	2154.0	2160.2	2183.8	2202.4	2230.5	2245.1	2269.5	2260.7	2241.0	2198.0
25°	1963.7	1957.1	1980.1	1992.0	2034.9	2079.7	2112.1	2147.8	2179.4	2198.6	2186.0
27.5°	1739.6	1729.7	1764.3	1795.8	1830.7	1879.2	1929.6	1989.1	2038.6	2100.5	2121.8
30°	1550.6	1556.5	1589.5	1623.2	1675.9	1744.6	1801.3	1866.6	1937.2	2006.6	2054.7
32.5°	1346.9	1369.7	1390.5	1442.1	1488.6	1565.1	1648.2	1729.9	1818.0	1896.8	1971.3
35°	1068.9	1095.3	1124.4	1161.9	1227.3	1303.1	1384.3	1494.5	1614.6	1722.2	1810.6
37.5°	899.7	895.5	912.1	939.4	992.2	1053.5	1146.9	1255.8	1397.1	1523.5	1648.2
40°	798.4	795.7	807.6	832.7	873.0	917.8	999.6	1095.3	1226.6	1381.0	1529.5
42.5°	728.8	730.3	736.9	754.6	782.1	819.1	880.4	961.7	1082.0	1227.4	1387.0
45°	644.0	648.6	655.9	664.4	680.3	710.7	744.9	803.1	898.0	1019.4	1176.5
47.5°	583.0	583.2	590.6	598.1	607.4	624.6	652.6	689.0	756.0	854.9	989.9
50°	550.3	545.7	551.0	556.9	566.8	578.7	597.1	631.5	676.3	756.1	869.0
52.5°	510.1	510.3	515.1	517.3	526.2	538.0	554.9	578.7	619.3	681.7	774.5
55°	452.6	455.9	458.6	462.5	470.5	479.1	492.2	508.1	539.8	586.6	655.2
57.5°	398.6	399.6	402.3	409.7	414.7	422.7	435.2	449.6	470.2	504.9	556.5
60°	361.6	361.6	366.9	370.1	376.8	384.7	394.6	408.5	426.9	455.3	496.9
62.5°	327.8	327.3	329.4	334.8	339.8	347.2	357.1	368.9	386.2	411.5	445.7
65°	278.4	277.2	281.1	282.4	287.7	295.0	302.9	315.4	329.2	347.8	378.1
67.5°	230.9	232.6	234.6	237.1	240.0	247.7	253.0	261.8	273.5	288.9	309.4
70°	204.6	204.6	204.6	206.6	210.5	214.5	219.7	227.0	238.2	251.4	269.8
72.5°	175.0	177.1	179.2	178.1	183.0	185.4	191.7	195.9	206.6	215.0	231.4
75°	137.2	137.2	137.2	140.5	142.5	144.5	148.4	152.4	157.7	168.2	176.8
77.5°	102.4	102.1	102.8	103.6	105.7	108.1	109.3	112.8	117.7	122.6	129.8
80°	79.2	80.5	81.2	82.5	82.5	83.8	84.5	89.1	92.4	95.7	100.3
82.5°	61.2	61.5	61.6	61.9	62.4	63.2	64.9	66.4	67.6	70.3	73.9
85°	35.6	35.0	35.0	36.2	35.6	35.6	36.9	38.2	38.2	38.9	40.9
87.5°	19.6	19.6	20.1	19.5	19.5	20.1	20.1	19.7	20.3	20.9	20.6
90°	29.6	29.4	29.3	29.1	28.8	28.9	29.4	29.7	30.1	30.5	26.3
92.5°	28.2	28.2	28.2	28.2	28.1	28.1	28.0	27.9	27.8	27.7	26.7
95°	54.1	54.4	54.8	55.2	55.6	55.8	55.8	55.8	55.8	55.8	55.4
97.5°	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.1
100°	119.5	119.7	119.9	120.0	120.3	120.4	120.4	120.4	120.4	120.4	119.8
102.5°	148.8	149.0	149.1	149.4	149.6	149.6	149.4	149.3	149.1	149.0	148.2
105°	193.6	193.6	193.6	193.6	193.6	193.4	193.0	192.6	192.3	191.8	191.5
107.5°	235.8	236.7	237.5	238.5	239.4	239.7	239.6	239.4	239.3	239.1	239.1
110°	268.6	269.1	269.8	270.4	271.0	271.2	271.2	271.2	271.2	271.2	271.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	300.0	300.4	300.8	301.3	301.7	302.1	302.6	303.1	303.5	304.0	304.2
115°	348.8	349.4	350.0	350.6	351.1	351.5	351.7	351.9	352.1	352.3	352.7
117.5°	395.4	396.0	396.6	397.2	397.7	398.2	398.7	399.2	399.7	400.1	401.2
120°	428.2	428.8	429.4	429.9	430.5	430.8	430.8	430.8	430.8	430.8	432.4
122.5°	460.3	460.7	461.2	461.6	462.0	462.4	462.9	463.4	463.8	464.3	465.4
125°	509.3	509.5	509.7	509.9	510.1	510.5	511.0	511.6	512.2	512.8	513.3
127.5°	554.0	554.6	555.2	555.8	556.4	557.1	557.8	558.4	559.1	559.9	560.6
130°	586.0	586.8	587.5	588.3	589.1	589.7	590.1	590.5	590.9	591.2	591.7
132.5°	616.7	617.3	617.9	618.6	619.2	619.9	620.8	621.6	622.5	623.4	623.3
135°	664.5	665.1	665.6	666.2	666.8	667.2	667.4	667.6	667.8	668.0	667.6
137.5°	707.7	708.5	709.3	710.1	710.8	711.4	711.5	711.6	711.8	712.0	711.4
140°	737.8	738.6	739.3	740.1	740.9	741.2	741.2	741.2	741.2	741.2	740.3
142.5°	765.0	765.8	766.5	767.3	768.1	768.4	768.3	768.1	767.9	767.8	767.2
145°	805.8	806.6	807.4	808.1	808.9	809.2	809.0	808.8	808.6	808.4	807.3
147.5°	842.2	843.0	843.7	844.5	845.2	845.3	844.9	844.5	844.0	843.6	842.8
150°	866.0	866.5	867.1	867.7	868.3	868.3	867.7	867.1	866.5	866.0	865.2
152.5°	888.3	889.0	889.8	890.5	891.2	891.2	890.5	889.8	889.0	888.3	887.3
155°	918.3	918.9	919.5	920.1	920.6	920.4	919.5	918.5	917.5	916.5	915.9
157.5°	944.1	945.0	946.0	946.9	947.8	947.6	946.3	945.0	943.7	942.4	942.0
160°	960.2	961.0	961.7	962.5	963.3	963.0	961.9	960.7	959.6	958.4	958.2
162.5°	974.1	975.0	975.9	976.9	977.8	977.7	976.3	975.0	973.7	972.3	972.2
165°	992.4	993.4	994.4	995.3	996.3	996.1	994.7	993.4	992.0	990.7	990.7
167.5°	1007.5	1008.4	1009.4	1010.5	1011.4	1011.2	1010.0	1008.6	1007.2	1005.8	1005.9
170°	1015.1	1016.2	1017.4	1018.6	1019.8	1019.7	1018.3	1016.9	1015.5	1014.3	1014.4
172.5°	1021.4	1022.5	1023.7	1024.8	1026.1	1025.9	1024.6	1023.2	1021.8	1020.5	1020.7
175°	1028.2	1029.3	1030.5	1031.7	1032.9	1032.7	1031.4	1030.0	1028.6	1027.3	1027.7
177.5°	1031.3	1032.3	1033.2	1034.1	1035.0	1035.0	1034.1	1033.2	1032.3	1031.3	1031.7
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1761.8	1757.6	1754.9	1745.4	1736.9	1728.5	1725.9	1726.9	1715.3	1704.2	1699.4
5°	1830.4	1817.1	1804.7	1786.8	1765.7	1742.6	1730.7	1721.5	1698.4	1673.4	1658.8
7.5°	1891.9	1873.0	1848.8	1815.3	1784.6	1748.3	1725.2	1704.7	1670.9	1635.6	1613.9
10°	1929.3	1903.6	1872.6	1831.7	1794.1	1749.9	1718.8	1687.8	1648.2	1606.0	1579.6
12.5°	1961.5	1926.8	1896.4	1843.8	1799.3	1744.0	1707.3	1663.5	1621.9	1571.7	1545.8
15°	2038.2	1974.2	1916.2	1856.7	1802.0	1724.8	1683.9	1625.1	1570.4	1508.4	1478.7
17.5°	2097.5	2025.5	1934.1	1858.6	1794.8	1709.3	1649.2	1578.8	1514.1	1443.2	1402.8
20°	2131.2	2048.7	1950.4	1860.7	1784.2	1686.5	1621.2	1549.3	1473.4	1393.5	1350.0
22.5°	2151.3	2064.6	1967.4	1852.8	1763.1	1668.0	1585.8	1507.0	1430.1	1343.9	1298.3
25°	2157.7	2078.5	1975.6	1846.2	1736.6	1629.1	1530.2	1453.6	1360.6	1280.0	1213.4
27.5°	2126.2	2069.5	1970.5	1833.8	1706.2	1580.5	1470.1	1383.4	1285.2	1197.8	1130.8
30°	2087.7	2054.7	1958.3	1821.1	1681.9	1546.6	1425.2	1326.9	1229.2	1140.8	1072.2
32.5°	2028.1	2020.9	1936.2	1803.2	1656.0	1503.9	1378.3	1278.8	1170.7	1083.8	1018.4
35°	1910.9	1942.5	1889.1	1763.1	1607.3	1443.0	1307.1	1193.6	1081.5	998.3	936.9
37.5°	1753.9	1832.5	1818.5	1704.3	1541.6	1376.8	1226.8	1108.1	1001.3	917.3	857.1
40°	1645.6	1745.9	1760.4	1659.5	1495.2	1325.6	1166.6	1048.4	944.2	867.7	806.9
42.5°	1529.5	1646.7	1686.5	1605.6	1444.5	1271.8	1112.8	990.4	887.2	812.8	759.0
45°	1334.8	1489.9	1561.9	1515.6	1359.9	1183.1	1019.4	895.4	801.7	731.8	690.2
47.5°	1152.9	1322.3	1419.0	1402.7	1265.8	1090.7	928.9	809.9	718.7	662.9	625.7
50°	1024.1	1198.3	1315.0	1320.3	1198.3	1024.7	862.4	750.2	666.4	614.3	583.9
52.5°	912.1	1078.4	1205.7	1233.7	1122.7	956.1	802.7	691.1	617.3	569.5	542.3
55°	766.0	906.6	1047.8	1099.2	1010.2	851.9	710.0	611.7	542.3	509.4	485.6
57.5°	636.9	754.1	884.4	941.3	886.4	750.9	617.9	532.4	476.3	447.4	429.1
60°	568.8	661.2	777.3	845.2	797.7	677.0	560.9	479.7	433.5	407.8	390.6
62.5°	505.4	587.3	685.4	747.6	721.7	607.9	503.9	432.2	392.4	368.2	355.8
65°	417.0	481.6	557.6	614.9	597.8	511.3	426.3	364.9	333.2	314.1	304.2
67.5°	343.4	390.1	442.7	493.0	479.1	417.9	349.6	301.8	278.2	261.7	255.7
70°	297.0	332.5	379.4	419.7	408.5	358.3	304.2	263.3	242.8	228.9	223.0
72.5°	252.6	281.9	317.6	350.5	342.9	301.3	256.1	225.2	209.6	196.7	191.9
75°	190.7	213.1	234.9	256.7	254.7	222.4	196.0	172.2	159.7	149.8	147.8
77.5°	140.8	153.3	168.2	181.1	177.5	159.0	138.3	124.7	115.5	108.8	107.8
80°	107.5	114.8	125.4	134.6	130.0	122.1	105.6	95.7	89.1	82.5	79.8
82.5°	78.0	85.2	91.6	96.6	93.1	85.7	75.5	68.8	64.8	60.3	59.2
85°	40.9	44.9	47.5	48.8	47.5	42.9	38.2	35.6	32.4	30.4	29.7
87.5°	20.2	19.4	18.5	18.9	16.9	16.4	13.9	11.8	11.7	11.6	11.1
90°	22.0	17.7	13.4	10.2	7.8	5.5	3.2	0.9	3.2	5.5	7.8
92.5°	25.7	24.7	23.7	22.4	20.7	18.9	17.2	15.5	17.2	18.9	20.7
95°	55.0	54.7	54.2	53.1	51.1	49.2	47.3	45.4	47.3	49.2	51.1
97.5°	92.4	91.6	90.9	89.6	88.0	86.3	84.6	82.8	84.6	86.3	88.0
100°	119.2	118.6	118.0	116.9	115.4	113.8	112.3	110.7	112.3	113.8	115.4
102.5°	147.5	146.7	146.0	145.0	143.8	142.5	141.3	140.1	141.3	142.5	143.8
105°	191.1	190.7	190.3	189.9	189.2	188.6	188.0	187.5	188.0	188.6	189.2
107.5°	239.1	239.1	239.1	238.7	237.8	236.9	236.2	235.3	236.2	236.9	237.8
110°	271.2	271.2	271.2	270.6	269.5	268.3	267.2	266.0	267.2	268.3	269.5





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	304.3	304.4	304.6	304.1	303.0	301.8	300.7	299.5	300.7	301.8	303.0
115°	353.1	353.4	353.9	353.4	352.3	351.1	350.0	348.8	350.0	351.1	352.3
117.5°	402.3	403.4	404.4	404.2	402.7	401.1	399.6	398.0	399.6	401.1	402.7
120°	433.9	435.5	437.0	437.0	435.5	433.9	432.4	430.8	432.4	433.9	435.5
122.5°	466.5	467.5	468.6	468.2	466.4	464.5	462.7	460.8	462.7	464.5	466.4
125°	513.9	514.5	515.1	514.5	512.8	511.0	509.3	507.6	509.3	511.0	512.8
127.5°	561.3	562.0	562.7	561.9	559.7	557.5	555.3	553.1	555.3	557.5	559.7
130°	592.0	592.5	592.8	591.8	589.3	586.7	584.2	581.7	584.2	586.7	589.3
132.5°	623.2	623.1	623.0	622.0	619.9	617.9	615.8	613.7	615.8	617.9	619.9
135°	667.2	666.8	666.4	665.2	663.1	660.9	658.8	656.7	658.8	660.9	663.1
137.5°	710.9	710.4	710.0	708.8	707.1	705.3	703.6	701.8	703.6	705.3	707.1
140°	739.3	738.4	737.4	736.0	734.3	732.5	730.8	729.0	730.8	732.5	734.3
142.5°	766.5	765.8	765.2	764.0	762.2	760.4	758.7	757.0	758.7	760.4	762.2
145°	806.1	804.9	803.7	802.5	801.2	799.8	798.4	797.0	798.4	799.8	801.2
147.5°	842.1	841.3	840.5	839.3	837.7	836.1	834.5	832.8	834.5	836.1	837.7
150°	864.4	863.7	862.9	861.9	860.7	859.5	858.4	857.2	858.4	859.5	860.7
152.5°	886.4	885.5	884.6	883.6	882.4	881.2	880.0	878.9	880.0	881.2	882.4
155°	915.4	914.8	914.2	913.6	913.1	912.5	911.9	911.3	911.9	912.5	913.1
157.5°	941.7	941.3	941.0	940.6	940.2	939.8	939.4	939.0	939.4	939.8	940.2
160°	958.0	957.9	957.6	957.3	956.9	956.6	956.1	955.8	956.1	956.6	956.9
162.5°	972.0	971.8	971.6	971.5	971.4	971.3	971.2	971.1	971.2	971.3	971.4
165°	990.7	990.7	990.7	990.8	990.9	991.2	991.4	991.5	991.4	991.2	990.9
167.5°	1005.9	1006.0	1006.0	1006.3	1006.9	1007.5	1008.1	1008.7	1008.1	1007.5	1006.9
170°	1014.6	1014.8	1015.0	1015.4	1016.0	1016.6	1017.1	1017.7	1017.1	1016.6	1016.0
172.5°	1020.9	1021.1	1021.2	1021.7	1022.3	1022.8	1023.4	1024.0	1023.4	1022.8	1022.3
175°	1028.0	1028.5	1028.8	1029.3	1029.9	1030.5	1031.0	1031.7	1031.0	1030.5	1029.9
177.5°	1031.9	1032.3	1032.5	1032.9	1033.4	1033.9	1034.3	1034.8	1034.3	1033.9	1033.4
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1694.2	1691.0	1679.9	1674.1	1664.7	1655.6	1649.8	1652.5	1654.6	1653.6	1651.9
5°	1645.6	1633.1	1613.9	1597.4	1585.5	1563.8	1554.5	1550.0	1546.0	1541.4	1536.7
7.5°	1587.8	1568.1	1540.6	1517.1	1494.9	1467.8	1452.4	1443.2	1433.7	1423.2	1414.0
10°	1546.6	1518.9	1489.9	1456.9	1430.6	1406.1	1384.3	1369.8	1356.6	1344.1	1334.8
12.5°	1503.4	1471.4	1435.5	1390.4	1361.3	1326.4	1323.1	1297.5	1276.9	1269.1	1258.3
15°	1434.4	1389.6	1344.1	1290.6	1267.6	1235.9	1216.1	1196.3	1178.5	1165.9	1162.6
17.5°	1356.2	1298.1	1252.8	1214.4	1176.6	1144.2	1125.9	1110.1	1095.5	1078.7	1076.4
20°	1296.6	1246.4	1197.0	1163.3	1124.4	1091.3	1068.9	1053.1	1040.5	1030.6	1022.1
22.5°	1240.1	1185.2	1139.9	1103.1	1064.7	1038.0	1020.4	1005.0	994.6	983.7	975.6
25°	1149.4	1106.6	1057.0	1015.5	983.8	966.6	952.1	938.9	932.4	925.1	915.8
27.5°	1070.1	1022.4	976.1	943.9	916.1	901.0	890.6	881.7	875.5	871.2	866.0
30°	1014.2	966.0	929.7	898.0	874.9	859.8	853.2	847.9	840.6	838.0	835.3
32.5°	960.3	916.9	885.9	858.4	836.4	826.5	820.4	815.7	810.0	807.4	802.1
35°	884.2	847.9	817.5	802.4	784.5	775.9	771.4	764.7	759.5	756.8	756.1
37.5°	812.5	781.0	761.0	741.5	734.0	728.8	722.4	717.9	716.4	715.9	715.2
40°	766.0	740.3	722.6	706.7	703.4	695.4	690.2	686.2	686.2	686.9	686.2
42.5°	723.8	700.8	685.0	671.3	667.4	662.7	657.5	657.2	658.2	660.5	658.2
45°	659.9	643.3	632.1	625.5	618.3	613.6	612.9	614.9	615.6	616.3	618.3
47.5°	601.0	590.0	579.9	572.6	569.5	568.6	567.8	571.3	574.5	575.7	578.7
50°	566.1	553.6	545.0	540.4	537.8	536.4	537.8	541.7	544.3	547.7	549.7
52.5°	527.1	518.2	512.3	508.8	507.6	508.5	508.8	513.2	517.5	518.7	519.5
55°	473.1	466.5	465.2	459.3	461.8	461.2	464.5	467.2	471.1	475.1	475.7
57.5°	419.2	414.0	410.4	411.0	411.7	414.7	417.4	422.1	426.3	430.5	430.8
60°	383.4	380.7	378.8	378.8	380.0	384.0	387.3	391.9	394.6	397.2	399.2
62.5°	350.6	348.0	346.0	347.1	350.5	352.8	356.7	359.2	361.9	364.5	365.4
65°	298.9	297.6	299.5	300.9	301.5	304.9	309.4	311.4	314.1	315.4	320.0
67.5°	251.2	251.5	251.2	253.1	256.9	257.7	262.1	266.7	267.3	269.8	272.8
70°	219.0	220.4	221.7	223.0	226.4	227.6	230.9	232.9	235.6	237.5	239.5
72.5°	189.5	189.8	191.1	190.8	193.6	196.5	199.2	201.2	203.9	206.4	208.4
75°	145.9	145.9	147.1	147.8	151.1	154.4	153.8	155.1	157.7	160.3	161.7
77.5°	106.5	105.0	106.5	107.2	108.2	111.0	111.5	113.4	116.4	115.5	116.9
80°	81.2	79.2	81.2	81.8	81.8	85.2	85.2	86.4	88.4	86.4	88.4
82.5°	57.9	57.0	58.5	58.6	59.7	59.8	60.9	61.1	63.1	62.2	63.1
85°	29.0	28.4	29.0	28.4	29.0	29.7	29.7	29.0	29.0	30.4	28.4
87.5°	11.0	11.1	11.5	12.3	12.7	13.0	12.4	12.3	12.2	11.1	11.0
90°	10.2	13.4	17.7	22.0	26.3	30.5	30.1	29.7	29.4	28.9	28.8
92.5°	22.4	23.7	24.7	25.7	26.7	27.7	27.8	27.9	28.0	28.1	28.1
95°	53.1	54.2	54.7	55.0	55.4	55.8	55.8	55.8	55.8	55.8	55.6
97.5°	89.6	90.9	91.6	92.4	93.1	93.8	93.8	93.8	93.8	93.8	93.8
100°	116.9	118.0	118.6	119.2	119.8	120.4	120.4	120.4	120.4	120.4	120.3
102.5°	145.0	146.0	146.7	147.5	148.2	149.0	149.1	149.3	149.4	149.6	149.6
105°	189.9	190.3	190.7	191.1	191.5	191.8	192.3	192.6	193.0	193.4	193.6
107.5°	238.7	239.1	239.1	239.1	239.1	239.1	239.3	239.4	239.6	239.7	239.4
110°	270.6	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.0



TEST NUMBER: P331598-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	304.1	304.6	304.4	304.3	304.2	304.0	303.5	303.1	302.6	302.1	301.7
115°	353.4	353.9	353.4	353.1	352.7	352.3	352.1	351.9	351.7	351.5	351.1
117.5°	404.2	404.4	403.4	402.3	401.2	400.1	399.7	399.2	398.7	398.2	397.7
120°	437.0	437.0	435.5	433.9	432.4	430.8	430.8	430.8	430.8	430.8	430.5
122.5°	468.2	468.6	467.5	466.5	465.4	464.3	463.8	463.4	462.9	462.4	462.0
125°	514.5	515.1	514.5	513.9	513.3	512.8	512.2	511.6	511.0	510.5	510.1
127.5°	561.9	562.7	562.0	561.3	560.6	559.9	559.1	558.4	557.8	557.1	556.4
130°	591.8	592.8	592.5	592.0	591.7	591.2	590.9	590.5	590.1	589.7	589.1
132.5°	622.0	623.0	623.1	623.2	623.3	623.4	622.5	621.6	620.8	619.9	619.2
135°	665.2	666.4	666.8	667.2	667.6	668.0	667.8	667.6	667.4	667.2	666.8
137.5°	708.8	710.0	710.4	710.9	711.4	712.0	711.8	711.6	711.5	711.4	710.8
140°	736.0	737.4	738.4	739.3	740.3	741.2	741.2	741.2	741.2	741.2	740.9
142.5°	764.0	765.2	765.8	766.5	767.2	767.8	767.9	768.1	768.3	768.4	768.1
145°	802.5	803.7	804.9	806.1	807.3	808.4	808.6	808.8	809.0	809.2	808.9
147.5°	839.3	840.5	841.3	842.1	842.8	843.6	844.0	844.5	844.9	845.3	845.2
150°	861.9	862.9	863.7	864.4	865.2	866.0	866.5	867.1	867.7	868.3	868.3
152.5°	883.6	884.6	885.5	886.4	887.3	888.3	889.0	889.8	890.5	891.2	891.2
155°	913.6	914.2	914.8	915.4	915.9	916.5	917.5	918.5	919.5	920.4	920.6
157.5°	940.6	941.0	941.3	941.7	942.0	942.4	943.7	945.0	946.3	947.6	947.8
160°	957.3	957.6	957.9	958.0	958.2	958.4	959.6	960.7	961.9	963.0	963.3
162.5°	971.5	971.6	971.8	972.0	972.2	972.3	973.7	975.0	976.3	977.7	977.8
165°	990.8	990.7	990.7	990.7	990.7	990.7	992.0	993.4	994.7	996.1	996.3
167.5°	1006.3	1006.0	1006.0	1005.9	1005.9	1005.8	1007.2	1008.6	1010.0	1011.2	1011.4
170°	1015.4	1015.0	1014.8	1014.6	1014.4	1014.3	1015.5	1016.9	1018.3	1019.7	1019.8
172.5°	1021.7	1021.2	1021.1	1020.9	1020.7	1020.5	1021.8	1023.2	1024.6	1025.9	1026.1
175°	1029.3	1028.8	1028.5	1028.0	1027.7	1027.3	1028.6	1030.0	1031.4	1032.7	1032.9
177.5°	1032.9	1032.5	1032.3	1031.9	1031.7	1031.3	1032.3	1033.2	1034.1	1035.0	1035.0
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1646.7	1645.6	1645.6	1640.9	1645.6	1645.6	1646.7	1651.9	1653.6	1654.6	1652.5
5°	1527.5	1525.5	1522.2	1525.5	1522.2	1525.5	1527.5	1536.7	1541.4	1546.0	1550.0
7.5°	1409.6	1401.7	1400.6	1392.8	1400.6	1401.7	1409.6	1414.0	1423.2	1433.7	1443.2
10°	1323.6	1318.4	1317.7	1305.1	1317.7	1318.4	1323.6	1334.8	1344.1	1356.6	1369.8
12.5°	1258.2	1245.5	1248.0	1240.7	1248.0	1245.5	1258.2	1258.3	1269.1	1276.9	1297.5
15°	1144.8	1144.8	1142.2	1130.9	1142.2	1144.8	1144.8	1162.6	1165.9	1178.5	1196.3
17.5°	1063.4	1062.0	1055.8	1058.9	1055.8	1062.0	1063.4	1076.4	1078.7	1095.5	1110.1
20°	1014.8	1010.9	1003.0	1003.0	1003.0	1010.9	1014.8	1022.1	1030.6	1040.5	1053.1
22.5°	968.9	968.6	960.2	962.9	960.2	968.6	968.9	975.6	983.7	994.6	1005.0
25°	915.2	909.9	905.9	907.9	905.9	909.9	915.2	915.8	925.1	932.4	938.9
27.5°	864.3	861.3	861.1	855.7	861.1	861.3	864.3	866.0	871.2	875.5	881.7
30°	834.7	828.1	829.4	826.1	829.4	828.1	834.7	835.3	838.0	840.6	847.9
32.5°	800.9	798.5	797.2	794.4	797.2	798.5	800.9	802.1	807.4	810.0	815.7
35°	754.8	755.5	752.2	753.5	752.2	755.5	754.8	756.1	756.8	759.5	764.7
37.5°	714.6	716.7	715.1	715.5	715.1	716.7	714.6	715.2	715.9	716.4	717.9
40°	688.2	688.2	688.2	690.2	688.2	688.2	688.2	686.2	686.9	686.2	686.2
42.5°	662.9	661.9	660.7	660.6	660.7	661.9	662.9	658.2	660.5	658.2	657.2
45°	619.6	621.6	622.2	618.9	622.2	621.6	619.6	618.3	616.3	615.6	614.9
47.5°	580.4	580.7	580.4	583.3	580.4	580.7	580.4	578.7	575.7	574.5	571.3
50°	552.9	551.6	552.9	551.6	552.9	551.6	552.9	549.7	547.7	544.3	541.7
52.5°	523.9	524.2	523.4	523.1	523.4	524.2	523.9	519.5	518.7	517.5	513.2
55°	478.4	479.7	479.1	479.1	479.1	479.7	478.4	475.7	475.1	471.1	467.2
57.5°	431.3	432.5	433.3	430.5	433.3	432.5	431.3	430.8	430.5	426.3	422.1
60°	398.6	401.8	401.1	399.8	401.1	401.8	398.6	399.2	397.2	394.6	391.9
62.5°	368.4	369.6	369.5	369.3	369.5	369.6	368.4	365.4	364.5	361.9	359.2
65°	322.0	323.3	321.3	323.3	321.3	323.3	322.0	320.0	315.4	314.1	311.4
67.5°	272.0	272.4	273.8	274.7	273.8	272.4	272.0	272.8	269.8	267.3	266.7
70°	240.8	240.2	242.2	244.2	242.2	240.2	240.8	239.5	237.5	235.6	232.9
72.5°	208.1	209.6	208.9	210.3	208.9	209.6	208.1	208.4	206.4	203.9	201.2
75°	160.3	162.3	161.7	163.7	161.7	162.3	160.3	161.7	160.3	157.7	155.1
77.5°	115.9	116.1	115.9	116.9	115.9	116.1	115.9	116.9	115.5	116.4	113.4
80°	88.4	87.1	85.8	88.4	85.8	87.1	88.4	88.4	86.4	88.4	86.4
82.5°	61.5	62.3	61.0	61.0	61.0	62.3	61.5	63.1	62.2	63.1	61.1
85°	28.4	27.7	26.4	26.4	26.4	27.7	28.4	28.4	30.4	29.0	29.0
87.5°	11.1	10.6	10.7	10.2	10.7	10.6	11.1	11.0	11.1	12.2	12.3
90°	29.1	29.3	29.4	29.6	29.4	29.3	29.1	28.8	28.9	29.4	29.7
92.5°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.1	28.1	28.0	27.9
95°	55.2	54.8	54.4	54.1	54.4	54.8	55.2	55.6	55.8	55.8	55.8
97.5°	93.8	93.8	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8
100°	120.0	119.9	119.7	119.5	119.7	119.9	120.0	120.3	120.4	120.4	120.4
102.5°	149.4	149.1	149.0	148.8	149.0	149.1	149.4	149.6	149.6	149.4	149.3
105°	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.4	193.0	192.6
107.5°	238.5	237.5	236.7	235.8	236.7	237.5	238.5	239.4	239.7	239.6	239.4
110°	270.4	269.8	269.1	268.6	269.1	269.8	270.4	271.0	271.2	271.2	271.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	301.3	300.8	300.4	300.0	300.4	300.8	301.3	301.7	302.1	302.6	303.1
115°	350.6	350.0	349.4	348.8	349.4	350.0	350.6	351.1	351.5	351.7	351.9
117.5°	397.2	396.6	396.0	395.4	396.0	396.6	397.2	397.7	398.2	398.7	399.2
120°	429.9	429.4	428.8	428.2	428.8	429.4	429.9	430.5	430.8	430.8	430.8
122.5°	461.6	461.2	460.7	460.3	460.7	461.2	461.6	462.0	462.4	462.9	463.4
125°	509.9	509.7	509.5	509.3	509.5	509.7	509.9	510.1	510.5	511.0	511.6
127.5°	555.8	555.2	554.6	554.0	554.6	555.2	555.8	556.4	557.1	557.8	558.4
130°	588.3	587.5	586.8	586.0	586.8	587.5	588.3	589.1	589.7	590.1	590.5
132.5°	618.6	617.9	617.3	616.7	617.3	617.9	618.6	619.2	619.9	620.8	621.6
135°	666.2	665.6	665.1	664.5	665.1	665.6	666.2	666.8	667.2	667.4	667.6
137.5°	710.1	709.3	708.5	707.7	708.5	709.3	710.1	710.8	711.4	711.5	711.6
140°	740.1	739.3	738.6	737.8	738.6	739.3	740.1	740.9	741.2	741.2	741.2
142.5°	767.3	766.5	765.8	765.0	765.8	766.5	767.3	768.1	768.4	768.3	768.1
145°	808.1	807.4	806.6	805.8	806.6	807.4	808.1	808.9	809.2	809.0	808.8
147.5°	844.5	843.7	843.0	842.2	843.0	843.7	844.5	845.2	845.3	844.9	844.5
150°	867.7	867.1	866.5	866.0	866.5	867.1	867.7	868.3	868.3	867.7	867.1
152.5°	890.5	889.8	889.0	888.3	889.0	889.8	890.5	891.2	891.2	890.5	889.8
155°	920.1	919.5	918.9	918.3	918.9	919.5	920.1	920.6	920.4	919.5	918.5
157.5°	946.9	946.0	945.0	944.1	945.0	946.0	946.9	947.8	947.6	946.3	945.0
160°	962.5	961.7	961.0	960.2	961.0	961.7	962.5	963.3	963.0	961.9	960.7
162.5°	976.9	975.9	975.0	974.1	975.0	975.9	976.9	977.8	977.7	976.3	975.0
165°	995.3	994.4	993.4	992.4	993.4	994.4	995.3	996.3	996.1	994.7	993.4
167.5°	1010.5	1009.4	1008.4	1007.5	1008.4	1009.4	1010.5	1011.4	1011.2	1010.0	1008.6
170°	1018.6	1017.4	1016.2	1015.1	1016.2	1017.4	1018.6	1019.8	1019.7	1018.3	1016.9
172.5°	1024.8	1023.7	1022.5	1021.4	1022.5	1023.7	1024.8	1026.1	1025.9	1024.6	1023.2
175°	1031.7	1030.5	1029.3	1028.2	1029.3	1030.5	1031.7	1032.9	1032.7	1031.4	1030.0
177.5°	1034.1	1033.2	1032.3	1031.3	1032.3	1033.2	1034.1	1035.0	1035.0	1034.1	1033.2
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1649.8	1655.6	1664.7	1674.1	1679.9	1691.0	1694.2	1699.4	1704.2	1715.3	1726.9
5°	1554.5	1563.8	1585.5	1597.4	1613.9	1633.1	1645.6	1658.8	1673.4	1698.4	1721.5
7.5°	1452.4	1467.8	1494.9	1517.1	1540.6	1568.1	1587.8	1613.9	1635.6	1670.9	1704.7
10°	1384.3	1406.1	1430.6	1456.9	1489.9	1518.9	1546.6	1579.6	1606.0	1648.2	1687.8
12.5°	1323.1	1326.4	1361.3	1390.4	1435.5	1471.4	1503.4	1545.8	1571.7	1621.9	1663.5
15°	1216.1	1235.9	1267.6	1290.6	1344.1	1389.6	1434.4	1478.7	1508.4	1570.4	1625.1
17.5°	1125.9	1144.2	1176.6	1214.4	1252.8	1298.1	1356.2	1402.8	1443.2	1514.1	1578.8
20°	1068.9	1091.3	1124.4	1163.3	1197.0	1246.4	1296.6	1350.0	1393.5	1473.4	1549.3
22.5°	1020.4	1038.0	1064.7	1103.1	1139.9	1185.2	1240.1	1298.3	1343.9	1430.1	1507.0
25°	952.1	966.6	983.8	1015.5	1057.0	1106.6	1149.4	1213.4	1280.0	1360.6	1453.6
27.5°	890.6	901.0	916.1	943.9	976.1	1022.4	1070.1	1130.8	1197.8	1285.2	1383.4
30°	853.2	859.8	874.9	898.0	929.7	966.0	1014.2	1072.2	1140.8	1229.2	1326.9
32.5°	820.4	826.5	836.4	858.4	885.9	916.9	960.3	1018.4	1083.8	1170.7	1278.8
35°	771.4	775.9	784.5	802.4	817.5	847.9	884.2	936.9	998.3	1081.5	1193.6
37.5°	722.4	728.8	734.0	741.5	761.0	781.0	812.5	857.1	917.3	1001.3	1108.1
40°	690.2	695.4	703.4	706.7	722.6	740.3	766.0	806.9	867.7	944.2	1048.4
42.5°	657.5	662.7	667.4	671.3	685.0	700.8	723.8	759.0	812.8	887.2	990.4
45°	612.9	613.6	618.3	625.5	632.1	643.3	659.9	690.2	731.8	801.7	895.4
47.5°	567.8	568.6	569.5	572.6	579.9	590.0	601.0	625.7	662.9	718.7	809.9
50°	537.8	536.4	537.8	540.4	545.0	553.6	566.1	583.9	614.3	666.4	750.2
52.5°	508.8	508.5	507.6	508.8	512.3	518.2	527.1	542.3	569.5	617.3	691.1
55°	464.5	461.2	461.8	459.3	465.2	466.5	473.1	485.6	509.4	542.3	611.7
57.5°	417.4	414.7	411.7	411.0	410.4	414.0	419.2	429.1	447.4	476.3	532.4
60°	387.3	384.0	380.0	378.8	378.8	380.7	383.4	390.6	407.8	433.5	479.7
62.5°	356.7	352.8	350.5	347.1	346.0	348.0	350.6	355.8	368.2	392.4	432.2
65°	309.4	304.9	301.5	300.9	299.5	297.6	298.9	304.2	314.1	333.2	364.9
67.5°	262.1	257.7	256.9	253.1	251.2	251.5	251.2	255.7	261.7	278.2	301.8
70°	230.9	227.6	226.4	223.0	221.7	220.4	219.0	223.0	228.9	242.8	263.3
72.5°	199.2	196.5	193.6	190.8	191.1	189.8	189.5	191.9	196.7	209.6	225.2
75°	153.8	154.4	151.1	147.8	147.1	145.9	145.9	147.8	149.8	159.7	172.2
77.5°	111.5	111.0	108.2	107.2	106.5	105.0	106.5	107.8	108.8	115.5	124.7
80°	85.2	85.2	81.8	81.8	81.2	79.2	81.2	79.8	82.5	89.1	95.7
82.5°	60.9	59.8	59.7	58.6	58.5	57.0	57.9	59.2	60.3	64.8	68.8
85°	29.7	29.7	29.0	28.4	29.0	28.4	29.0	29.7	30.4	32.4	35.6
87.5°	12.4	13.0	12.7	12.3	11.5	11.1	11.0	11.1	11.6	11.7	11.8
90°	30.1	30.5	26.3	22.0	17.7	13.4	10.2	7.8	5.5	3.2	0.9
92.5°	27.8	27.7	26.7	25.7	24.7	23.7	22.4	20.7	18.9	17.2	15.5
95°	55.8	55.8	55.4	55.0	54.7	54.2	53.1	51.1	49.2	47.3	45.4
97.5°	93.8	93.8	93.1	92.4	91.6	90.9	89.6	88.0	86.3	84.6	82.8
100°	120.4	120.4	119.8	119.2	118.6	118.0	116.9	115.4	113.8	112.3	110.7
102.5°	149.1	149.0	148.2	147.5	146.7	146.0	145.0	143.8	142.5	141.3	140.1
105°	192.3	191.8	191.5	191.1	190.7	190.3	189.9	189.2	188.6	188.0	187.5
107.5°	239.3	239.1	239.1	239.1	239.1	239.1	238.7	237.8	236.9	236.2	235.3
110°	271.2	271.2	271.2	271.2	271.2	271.2	270.6	269.5	268.3	267.2	266.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.5	304.0	304.2	304.3	304.4	304.6	304.1	303.0	301.8	300.7	299.5
115°	352.1	352.3	352.7	353.1	353.4	353.9	353.4	352.3	351.1	350.0	348.8
117.5°	399.7	400.1	401.2	402.3	403.4	404.4	404.2	402.7	401.1	399.6	398.0
120°	430.8	430.8	432.4	433.9	435.5	437.0	437.0	435.5	433.9	432.4	430.8
122.5°	463.8	464.3	465.4	466.5	467.5	468.6	468.2	466.4	464.5	462.7	460.8
125°	512.2	512.8	513.3	513.9	514.5	515.1	514.5	512.8	511.0	509.3	507.6
127.5°	559.1	559.9	560.6	561.3	562.0	562.7	561.9	559.7	557.5	555.3	553.1
130°	590.9	591.2	591.7	592.0	592.5	592.8	591.8	589.3	586.7	584.2	581.7
132.5°	622.5	623.4	623.3	623.2	623.1	623.0	622.0	619.9	617.9	615.8	613.7
135°	667.8	668.0	667.6	667.2	666.8	666.4	665.2	663.1	660.9	658.8	656.7
137.5°	711.8	712.0	711.4	710.9	710.4	710.0	708.8	707.1	705.3	703.6	701.8
140°	741.2	741.2	740.3	739.3	738.4	737.4	736.0	734.3	732.5	730.8	729.0
142.5°	767.9	767.8	767.2	766.5	765.8	765.2	764.0	762.2	760.4	758.7	757.0
145°	808.6	808.4	807.3	806.1	804.9	803.7	802.5	801.2	799.8	798.4	797.0
147.5°	844.0	843.6	842.8	842.1	841.3	840.5	839.3	837.7	836.1	834.5	832.8
150°	866.5	866.0	865.2	864.4	863.7	862.9	861.9	860.7	859.5	858.4	857.2
152.5°	889.0	888.3	887.3	886.4	885.5	884.6	883.6	882.4	881.2	880.0	878.9
155°	917.5	916.5	915.9	915.4	914.8	914.2	913.6	913.1	912.5	911.9	911.3
157.5°	943.7	942.4	942.0	941.7	941.3	941.0	940.6	940.2	939.8	939.4	939.0
160°	959.6	958.4	958.2	958.0	957.9	957.6	957.3	956.9	956.6	956.1	955.8
162.5°	973.7	972.3	972.2	972.0	971.8	971.6	971.5	971.4	971.3	971.2	971.1
165°	992.0	990.7	990.7	990.7	990.7	990.7	990.8	990.9	991.2	991.4	991.5
167.5°	1007.2	1005.8	1005.9	1005.9	1006.0	1006.0	1006.3	1006.9	1007.5	1008.1	1008.7
170°	1015.5	1014.3	1014.4	1014.6	1014.8	1015.0	1015.4	1016.0	1016.6	1017.1	1017.7
172.5°	1021.8	1020.5	1020.7	1020.9	1021.1	1021.2	1021.7	1022.3	1022.8	1023.4	1024.0
175°	1028.6	1027.3	1027.7	1028.0	1028.5	1028.8	1029.3	1029.9	1030.5	1031.0	1031.7
177.5°	1032.3	1031.3	1031.7	1031.9	1032.3	1032.5	1032.9	1033.4	1033.9	1034.3	1034.8
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1725.9	1728.5	1736.9	1745.4	1754.9	1757.6	1761.8	1758.1	1757.0	1767.0	1774.4
5°	1730.7	1742.6	1765.7	1786.8	1804.7	1817.1	1830.4	1835.7	1845.6	1859.4	1876.5
7.5°	1725.2	1748.3	1784.6	1815.3	1848.8	1873.0	1891.9	1908.0	1927.5	1953.8	1982.4
10°	1718.8	1749.9	1794.1	1831.7	1872.6	1903.6	1929.3	1954.4	1983.5	2019.7	2057.4
12.5°	1707.3	1744.0	1799.3	1843.8	1896.4	1926.8	1961.5	2015.7	2046.8	2097.3	2150.3
15°	1683.9	1724.8	1802.0	1856.7	1916.2	1974.2	2038.2	2089.6	2141.1	2170.8	2245.4
17.5°	1649.2	1709.3	1794.8	1858.6	1934.1	2025.5	2097.5	2155.8	2215.2	2263.3	2300.7
20°	1621.2	1686.5	1784.2	1860.7	1950.4	2048.7	2131.2	2190.6	2242.1	2282.3	2305.4
22.5°	1585.8	1668.0	1763.1	1852.8	1967.4	2064.6	2151.3	2198.0	2241.0	2260.7	2269.5
25°	1530.2	1629.1	1736.6	1846.2	1975.6	2078.5	2157.7	2186.0	2198.6	2179.4	2147.8
27.5°	1470.1	1580.5	1706.2	1833.8	1970.5	2069.5	2126.2	2121.8	2100.5	2038.6	1989.1
30°	1425.2	1546.6	1681.9	1821.1	1958.3	2054.7	2087.7	2054.7	2006.6	1937.2	1866.6
32.5°	1378.3	1503.9	1656.0	1803.2	1936.2	2020.9	2028.1	1971.3	1896.8	1818.0	1729.9
35°	1307.1	1443.0	1607.3	1763.1	1889.1	1942.5	1910.9	1810.6	1722.2	1614.6	1494.5
37.5°	1226.8	1376.8	1541.6	1704.3	1818.5	1832.5	1753.9	1648.2	1523.5	1397.1	1255.8
40°	1166.6	1325.6	1495.2	1659.5	1760.4	1745.9	1645.6	1529.5	1381.0	1226.6	1095.3
42.5°	1112.8	1271.8	1444.5	1605.6	1686.5	1646.7	1529.5	1387.0	1227.4	1082.0	961.7
45°	1019.4	1183.1	1359.9	1515.6	1561.9	1489.9	1334.8	1176.5	1019.4	898.0	803.1
47.5°	928.9	1090.7	1265.8	1402.7	1419.0	1322.3	1152.9	989.9	854.9	756.0	689.0
50°	862.4	1024.7	1198.3	1320.3	1315.0	1198.3	1024.1	869.0	756.1	676.3	631.5
52.5°	802.7	956.1	1122.7	1233.7	1205.7	1078.4	912.1	774.5	681.7	619.3	578.7
55°	710.0	851.9	1010.2	1099.2	1047.8	906.6	766.0	655.2	586.6	539.8	508.1
57.5°	617.9	750.9	886.4	941.3	884.4	754.1	636.9	556.5	504.9	470.2	449.6
60°	560.9	677.0	797.7	845.2	777.3	661.2	568.8	496.9	455.3	426.9	408.5
62.5°	503.9	607.9	721.7	747.6	685.4	587.3	505.4	445.7	411.5	386.2	368.9
65°	426.3	511.3	597.8	614.9	557.6	481.6	417.0	378.1	347.8	329.2	315.4
67.5°	349.6	417.9	479.1	493.0	442.7	390.1	343.4	309.4	288.9	273.5	261.8
70°	304.2	358.3	408.5	419.7	379.4	332.5	297.0	269.8	251.4	238.2	227.0
72.5°	256.1	301.3	342.9	350.5	317.6	281.9	252.6	231.4	215.0	206.6	195.9
75°	196.0	222.4	254.7	256.7	234.9	213.1	190.7	176.8	168.2	157.7	152.4
77.5°	138.3	159.0	177.5	181.1	168.2	153.3	140.8	129.8	122.6	117.7	112.8
80°	105.6	122.1	130.0	134.6	125.4	114.8	107.5	100.3	95.7	92.4	89.1
82.5°	75.5	85.7	93.1	96.6	91.6	85.2	78.0	73.9	70.3	67.6	66.4
85°	38.2	42.9	47.5	48.8	47.5	44.9	40.9	40.9	38.9	38.2	38.2
87.5°	13.9	16.4	16.9	18.9	18.5	19.4	20.2	20.6	20.9	20.3	19.7
90°	3.2	5.5	7.8	10.2	13.4	17.7	22.0	26.3	30.5	30.1	29.7
92.5°	17.2	18.9	20.7	22.4	23.7	24.7	25.7	26.7	27.7	27.8	27.9
95°	47.3	49.2	51.1	53.1	54.2	54.7	55.0	55.4	55.8	55.8	55.8
97.5°	84.6	86.3	88.0	89.6	90.9	91.6	92.4	93.1	93.8	93.8	93.8
100°	112.3	113.8	115.4	116.9	118.0	118.6	119.2	119.8	120.4	120.4	120.4
102.5°	141.3	142.5	143.8	145.0	146.0	146.7	147.5	148.2	149.0	149.1	149.3
105°	188.0	188.6	189.2	189.9	190.3	190.7	191.1	191.5	191.8	192.3	192.6
107.5°	236.2	236.9	237.8	238.7	239.1	239.1	239.1	239.1	239.1	239.3	239.4
110°	267.2	268.3	269.5	270.6	271.2	271.2	271.2	271.2	271.2	271.2	271.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	300.7	301.8	303.0	304.1	304.6	304.4	304.3	304.2	304.0	303.5	303.1
115°	350.0	351.1	352.3	353.4	353.9	353.4	353.1	352.7	352.3	352.1	351.9
117.5°	399.6	401.1	402.7	404.2	404.4	403.4	402.3	401.2	400.1	399.7	399.2
120°	432.4	433.9	435.5	437.0	437.0	435.5	433.9	432.4	430.8	430.8	430.8
122.5°	462.7	464.5	466.4	468.2	468.6	467.5	466.5	465.4	464.3	463.8	463.4
125°	509.3	511.0	512.8	514.5	515.1	514.5	513.9	513.3	512.8	512.2	511.6
127.5°	555.3	557.5	559.7	561.9	562.7	562.0	561.3	560.6	559.9	559.1	558.4
130°	584.2	586.7	589.3	591.8	592.8	592.5	592.0	591.7	591.2	590.9	590.5
132.5°	615.8	617.9	619.9	622.0	623.0	623.1	623.2	623.3	623.4	622.5	621.6
135°	658.8	660.9	663.1	665.2	666.4	666.8	667.2	667.6	668.0	667.8	667.6
137.5°	703.6	705.3	707.1	708.8	710.0	710.4	710.9	711.4	712.0	711.8	711.6
140°	730.8	732.5	734.3	736.0	737.4	738.4	739.3	740.3	741.2	741.2	741.2
142.5°	758.7	760.4	762.2	764.0	765.2	765.8	766.5	767.2	767.8	767.9	768.1
145°	798.4	799.8	801.2	802.5	803.7	804.9	806.1	807.3	808.4	808.6	808.8
147.5°	834.5	836.1	837.7	839.3	840.5	841.3	842.1	842.8	843.6	844.0	844.5
150°	858.4	859.5	860.7	861.9	862.9	863.7	864.4	865.2	866.0	866.5	867.1
152.5°	880.0	881.2	882.4	883.6	884.6	885.5	886.4	887.3	888.3	889.0	889.8
155°	911.9	912.5	913.1	913.6	914.2	914.8	915.4	915.9	916.5	917.5	918.5
157.5°	939.4	939.8	940.2	940.6	941.0	941.3	941.7	942.0	942.4	943.7	945.0
160°	956.1	956.6	956.9	957.3	957.6	957.9	958.0	958.2	958.4	959.6	960.7
162.5°	971.2	971.3	971.4	971.5	971.6	971.8	972.0	972.2	972.3	973.7	975.0
165°	991.4	991.2	990.9	990.8	990.7	990.7	990.7	990.7	990.7	992.0	993.4
167.5°	1008.1	1007.5	1006.9	1006.3	1006.0	1006.0	1005.9	1005.9	1005.8	1007.2	1008.6
170°	1017.1	1016.6	1016.0	1015.4	1015.0	1014.8	1014.6	1014.4	1014.3	1015.5	1016.9
172.5°	1023.4	1022.8	1022.3	1021.7	1021.2	1021.1	1020.9	1020.7	1020.5	1021.8	1023.2
175°	1031.0	1030.5	1029.9	1029.3	1028.8	1028.5	1028.0	1027.7	1027.3	1028.6	1030.0
177.5°	1034.3	1033.9	1033.4	1032.9	1032.5	1032.3	1031.9	1031.7	1031.3	1032.3	1033.2
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1780.7	1788.1	1788.1	1789.2	1797.6	1796.6	1796.0
5°	1895.1	1906.3	1907.5	1919.4	1927.3	1924.7	1917.4
7.5°	2002.9	2023.7	2039.5	2048.4	2058.8	2065.3	2062.4
10°	2088.4	2118.7	2137.2	2149.7	2164.9	2176.1	2172.1
12.5°	2165.9	2202.1	2227.5	2248.9	2250.9	2265.3	2255.6
15°	2287.0	2325.2	2329.2	2345.0	2357.6	2356.2	2356.9
17.5°	2326.9	2339.3	2341.7	2342.1	2342.3	2337.6	2327.6
20°	2312.7	2308.1	2296.9	2288.3	2273.1	2271.1	2258.0
22.5°	2245.1	2230.5	2202.4	2183.8	2160.2	2154.0	2150.3
25°	2112.1	2079.7	2034.9	1992.0	1980.1	1957.1	1963.7
27.5°	1929.6	1879.2	1830.7	1795.8	1764.3	1729.7	1739.6
30°	1801.3	1744.6	1675.9	1623.2	1589.5	1556.5	1550.6
32.5°	1648.2	1565.1	1488.6	1442.1	1390.5	1369.7	1346.9
35°	1384.3	1303.1	1227.3	1161.9	1124.4	1095.3	1068.9
37.5°	1146.9	1053.5	992.2	939.4	912.1	895.5	899.7
40°	999.6	917.8	873.0	832.7	807.6	795.7	798.4
42.5°	880.4	819.1	782.1	754.6	736.9	730.3	728.8
45°	744.9	710.7	680.3	664.4	655.9	648.6	644.0
47.5°	652.6	624.6	607.4	598.1	590.6	583.2	583.0
50°	597.1	578.7	566.8	556.9	551.0	545.7	550.3
52.5°	554.9	538.0	526.2	517.3	515.1	510.3	510.1
55°	492.2	479.1	470.5	462.5	458.6	455.9	452.6
57.5°	435.2	422.7	414.7	409.7	402.3	399.6	398.6
60°	394.6	384.7	376.8	370.1	366.9	361.6	361.6
62.5°	357.1	347.2	339.8	334.8	329.4	327.3	327.8
65°	302.9	295.0	287.7	282.4	281.1	277.2	278.4
67.5°	253.0	247.7	240.0	237.1	234.6	232.6	230.9
70°	219.7	214.5	210.5	206.6	204.6	204.6	204.6
72.5°	191.7	185.4	183.0	178.1	179.2	177.1	175.0
75°	148.4	144.5	142.5	140.5	137.2	137.2	137.2
77.5°	109.3	108.1	105.7	103.6	102.8	102.1	102.4
80°	84.5	83.8	82.5	82.5	81.2	80.5	79.2
82.5°	64.9	63.2	62.4	61.9	61.6	61.5	61.2
85°	36.9	35.6	35.6	36.2	35.0	35.0	35.6
87.5°	20.1	20.1	19.5	19.5	20.1	19.6	19.6
90°	29.4	28.9	28.8	29.1	29.3	29.4	29.6
92.5°	28.0	28.1	28.1	28.2	28.2	28.2	28.2
95°	55.8	55.8	55.6	55.2	54.8	54.4	54.1
97.5°	93.8	93.8	93.8	93.8	93.8	93.7	93.7
100°	120.4	120.4	120.3	120.0	119.9	119.7	119.5
102.5°	149.4	149.6	149.6	149.4	149.1	149.0	148.8
105°	193.0	193.4	193.6	193.6	193.6	193.6	193.6
107.5°	239.6	239.7	239.4	238.5	237.5	236.7	235.8
110°	271.2	271.2	271.0	270.4	269.8	269.1	268.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	302.6	302.1	301.7	301.3	300.8	300.4	300.0
115°	351.7	351.5	351.1	350.6	350.0	349.4	348.8
117.5°	398.7	398.2	397.7	397.2	396.6	396.0	395.4
120°	430.8	430.8	430.5	429.9	429.4	428.8	428.2
122.5°	462.9	462.4	462.0	461.6	461.2	460.7	460.3
125°	511.0	510.5	510.1	509.9	509.7	509.5	509.3
127.5°	557.8	557.1	556.4	555.8	555.2	554.6	554.0
130°	590.1	589.7	589.1	588.3	587.5	586.8	586.0
132.5°	620.8	619.9	619.2	618.6	617.9	617.3	616.7
135°	667.4	667.2	666.8	666.2	665.6	665.1	664.5
137.5°	711.5	711.4	710.8	710.1	709.3	708.5	707.7
140°	741.2	741.2	740.9	740.1	739.3	738.6	737.8
142.5°	768.3	768.4	768.1	767.3	766.5	765.8	765.0
145°	809.0	809.2	808.9	808.1	807.4	806.6	805.8
147.5°	844.9	845.3	845.2	844.5	843.7	843.0	842.2
150°	867.7	868.3	868.3	867.7	867.1	866.5	866.0
152.5°	890.5	891.2	891.2	890.5	889.8	889.0	888.3
155°	919.5	920.4	920.6	920.1	919.5	918.9	918.3
157.5°	946.3	947.6	947.8	946.9	946.0	945.0	944.1
160°	961.9	963.0	963.3	962.5	961.7	961.0	960.2
162.5°	976.3	977.7	977.8	976.9	975.9	975.0	974.1
165°	994.7	996.1	996.3	995.3	994.4	993.4	992.4
167.5°	1010.0	1011.2	1011.4	1010.5	1009.4	1008.4	1007.5
170°	1018.3	1019.7	1019.8	1018.6	1017.4	1016.2	1015.1
172.5°	1024.6	1025.9	1026.1	1024.8	1023.7	1022.5	1021.4
175°	1031.4	1032.7	1032.9	1031.7	1030.5	1029.3	1028.2
177.5°	1034.1	1035.0	1035.0	1034.1	1033.2	1032.3	1031.3
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4

(END OF REPORT)