

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: P333052-840

Luminaire Tested: **S124RDIW-S575D1560U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333052-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIW-S575D1560U840-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

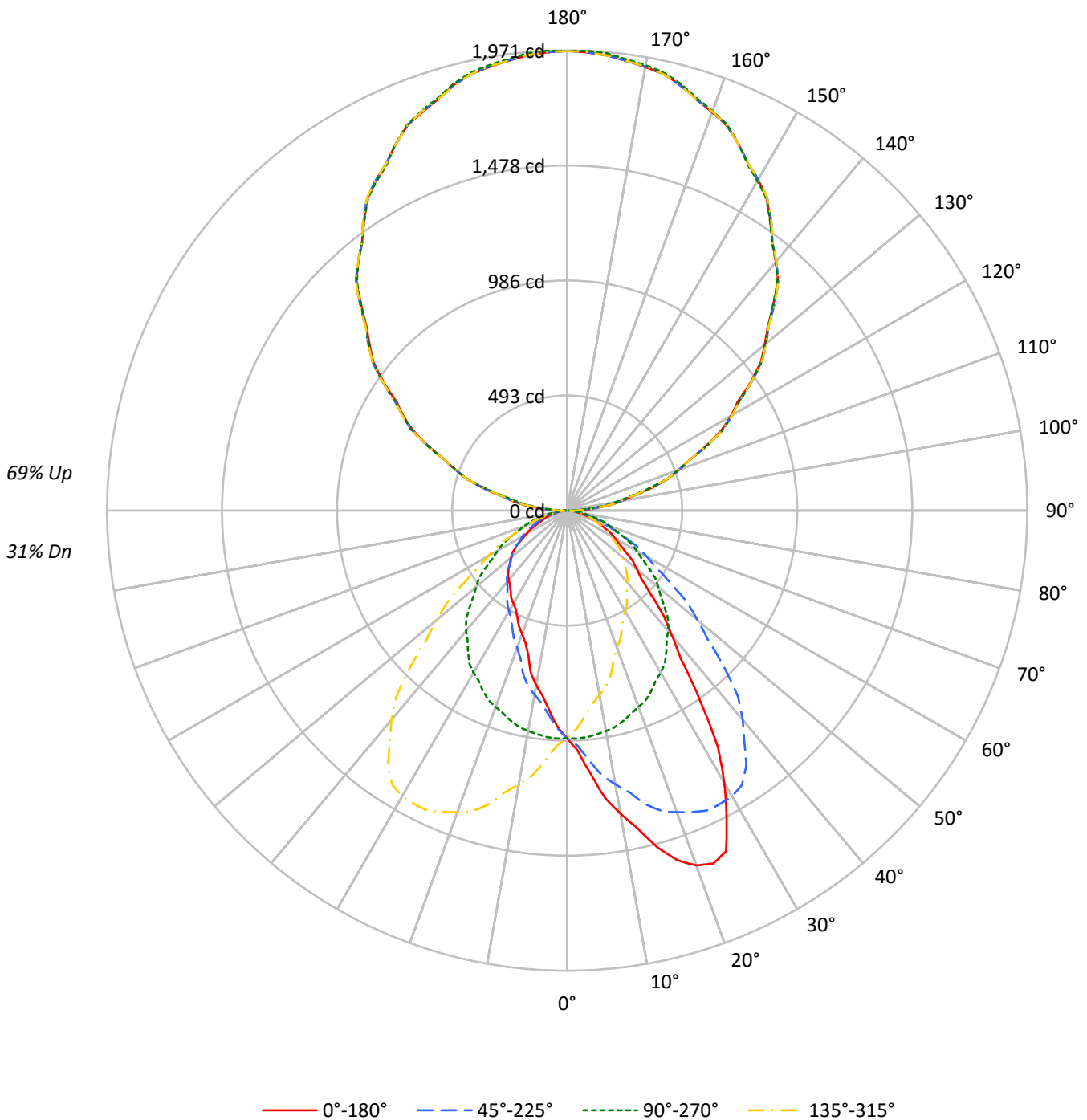
Lumens per Lamp: N/A  
Luminaire Lumens: 7933.5 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	33	27
2	86	79	73	68	77	71	66	62	56	53	50	43	41	39	31	30	28	23
3	78	69	62	57	70	63	57	52	50	46	42	38	36	33	28	26	24	20
4	72	61	54	48	64	56	49	44	45	40	36	34	31	29	25	23	21	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	22	20	19	15
6	61	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	37	31	50	40	34	29	33	28	24	25	22	19	19	16	15	12
8	52	40	33	28	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	23	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

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

	0°	90°	180°	270°
0°	7873	7873	7873	7873
5°	9132	7896	6980	7896
10°	10803	7862	6229	7862
15°	12479	7789	5353	7789
20°	13894	7689	4840	7689
25°	14343	7591	4494	7591
30°	12557	7471	4285	7471
35°	9773	7295	4159	7295
40°	7330	7093	4091	7093
45°	5787	6769	4055	6769
50°	4886	6395	3939	6395
55°	4259	5985	3727	5985
60°	3831	5557	3299	5557
65°	3377	5096	2839	5096
70°	3043	4619	2561	4619
75°	2548	4095	2183	4095
80°	2157	3487	2046	3487
85°	1825	2732	1825	2732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.5	1.2
10°-20°	285.0	3.6
20°-30°	445.8	5.6
30°-40°	495.6	6.2
40°-50°	439.7	5.5
50°-60°	342.6	4.3
60°-70°	224.3	2.8
70°-80°	110.3	1.4
80°-90°	33.1	0.4
90°-100°	129.9	1.6
100°-110°	384.7	4.8
110°-120°	652.9	8.2
120°-130°	861.0	10.9
130°-140°	966.9	12.2
140°-150°	950.1	12.0
150°-160°	799.1	10.1
160°-170°	531.7	6.7
170°-180°	186.2	2.3
0°-30°	825.3	10.4
0°-40°	1320.9	16.6
0°-60°	2103.3	26.5
0°-90°	2471.0	31.1
90°-120°	1167.5	14.7
90°-150°	3945.5	49.7
90°-180°	5463.0	68.9
0°-180°	7933.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	975	975	975	975	975	
5°	1127	974	861	974	1127	114
15°	1493	932	640	932	1493	425
25°	1610	852	504	852	1610	714
35°	992	740	422	740	992	622
45°	507	593	355	593	507	401
55°	303	425	265	425	303	275
65°	177	267	149	267	177	178
75°	82	131	70	131	82	90
85°	20	30	20	30	20	23
90°	46	4	46	4	46	24
95°	120	91	120	91	120	125
105°	372	355	372	355	372	392
115°	658	664	658	664	658	650
125°	959	967	959	967	959	856
135°	1249	1247	1249	1247	1249	964
145°	1517	1515	1517	1515	1517	949
155°	1734	1736	1734	1736	1734	798
165°	1885	1890	1885	1890	1885	531
175°	1957	1966	1957	1966	1957	186
180°	1969	1969	1969	1969	1969	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1028.6	1031.5	1028.6	1028.3	1025.2	1024.3	1023.0	1019.0	1011.4	1006.9	1007.9
5°	1126.9	1136.7	1131.3	1130.4	1121.8	1113.2	1107.6	1095.1	1081.7	1072.7	1065.2
7.5°	1240.5	1246.2	1242.7	1237.2	1223.2	1215.3	1202.5	1186.0	1162.1	1143.7	1127.0
10°	1317.9	1322.5	1321.0	1310.8	1300.6	1279.7	1268.0	1244.8	1214.5	1190.5	1168.1
12.5°	1393.9	1399.0	1385.1	1385.6	1366.2	1349.8	1331.1	1302.0	1267.0	1236.1	1208.1
15°	1493.1	1486.8	1486.8	1478.9	1457.3	1434.5	1415.3	1384.6	1340.6	1303.7	1264.9
17.5°	1570.7	1573.0	1569.7	1551.2	1534.2	1510.7	1475.3	1439.6	1398.7	1349.1	1309.4
20°	1617.3	1617.3	1613.8	1601.1	1579.1	1554.0	1515.9	1477.0	1425.1	1375.2	1330.4
22.5°	1636.1	1637.4	1633.3	1622.9	1603.1	1578.5	1546.1	1506.5	1453.1	1396.9	1341.4
25°	1610.2	1617.6	1618.4	1615.7	1609.8	1594.9	1567.0	1526.5	1478.5	1417.6	1358.0
27.5°	1478.3	1487.7	1496.0	1509.5	1527.6	1537.1	1538.3	1517.7	1475.9	1417.3	1357.3
30°	1347.0	1354.7	1380.3	1413.7	1439.7	1463.2	1483.7	1489.1	1465.6	1412.9	1349.7
32.5°	1201.0	1211.7	1237.3	1273.2	1316.5	1356.3	1402.3	1425.6	1425.0	1393.4	1334.9
35°	991.7	999.6	1023.2	1060.9	1112.8	1172.0	1244.8	1301.3	1339.9	1337.1	1301.3
37.5°	799.8	808.7	832.5	863.8	914.1	987.5	1057.9	1135.9	1207.1	1247.1	1235.1
40°	695.5	695.9	719.0	751.2	798.4	862.4	939.1	1025.5	1104.9	1169.7	1182.2
42.5°	613.1	613.2	628.5	663.3	697.2	757.5	830.6	916.5	1009.4	1084.2	1117.5
45°	506.9	510.4	523.0	543.8	570.5	621.6	680.1	759.9	864.0	952.8	1008.2
47.5°	429.2	434.4	442.4	459.4	480.7	514.7	563.1	634.8	719.5	817.2	896.1
50°	389.0	389.8	400.0	409.4	427.9	455.0	497.5	557.1	635.0	728.8	816.5
52.5°	354.5	354.3	360.4	372.3	387.4	408.5	442.7	497.2	566.1	650.3	740.7
55°	302.6	304.5	309.2	318.6	330.0	345.0	372.1	412.9	467.2	539.1	621.2
57.5°	263.1	264.1	267.8	271.9	282.3	293.2	313.5	341.8	387.6	446.5	523.0
60°	237.3	237.7	238.9	244.8	253.1	263.3	277.0	300.9	339.5	393.3	453.8
62.5°	212.2	212.9	214.7	219.0	225.4	232.5	246.8	266.1	298.0	344.0	398.5
65°	176.8	177.2	180.0	181.6	186.6	192.9	203.5	216.5	238.5	277.0	318.3
67.5°	147.7	147.7	147.8	150.1	153.6	157.7	164.1	174.5	191.1	214.7	251.1
70°	128.9	128.9	129.7	130.9	132.8	136.3	139.9	147.7	160.0	179.2	207.0
72.5°	111.3	111.6	112.4	112.6	113.6	116.5	119.2	124.1	133.2	147.7	170.3
75°	81.7	82.9	84.8	86.4	88.4	88.1	90.8	93.9	96.6	105.3	118.3
77.5°	60.8	60.2	60.4	61.8	62.0	62.4	64.3	66.8	68.9	72.9	77.6
80°	46.4	46.4	47.6	48.0	47.6	48.0	49.9	51.1	51.9	53.4	57.8
82.5°	35.0	35.6	35.2	35.6	36.0	36.4	38.0	38.2	39.0	39.6	41.4
85°	19.7	20.0	20.4	19.7	19.7	19.7	20.4	20.8	21.6	21.2	22.0
87.5°	16.1	15.6	15.8	15.7	15.9	15.2	15.1	15.3	14.3	14.2	13.7
90°	45.6	45.0	44.3	43.6	43.0	41.6	39.6	37.6	35.5	33.5	30.8
92.5°	67.6	67.2	66.8	66.3	65.9	65.1	63.9	62.7	61.5	60.3	58.4
95°	120.3	120.3	120.3	120.3	120.3	119.8	118.8	117.8	116.7	115.7	113.4
97.5°	188.5	188.5	188.5	188.5	188.5	187.9	186.7	185.5	184.2	183.0	180.3
100°	236.0	236.0	236.0	236.0	236.0	235.7	235.0	234.3	233.7	233.0	229.9
102.5°	289.6	289.3	289.1	288.8	288.5	287.9	287.0	286.0	285.1	284.2	281.3
105°	371.5	370.5	369.5	368.5	367.5	366.5	365.5	364.5	363.5	362.4	361.0
107.5°	451.3	451.4	451.5	451.5	451.6	451.2	450.2	449.3	448.3	447.4	447.2
110°	508.6	507.6	506.5	505.5	504.5	504.3	505.0	505.7	506.3	507.1	507.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	567.0	566.8	566.6	566.4	566.2	566.2	566.3	566.4	566.6	566.7	567.3
115°	657.8	658.1	658.5	658.8	659.1	659.5	659.8	660.1	660.6	660.9	661.6
117.5°	744.3	745.0	745.7	746.3	747.0	747.9	749.1	750.2	751.3	752.6	753.0
120°	810.1	809.4	808.7	808.1	807.4	807.9	809.6	811.2	812.9	814.7	815.7
122.5°	864.9	866.2	867.4	868.6	869.8	871.0	872.1	873.2	874.4	875.6	876.1
125°	959.3	960.0	960.7	961.3	962.0	962.7	963.4	964.0	964.7	965.4	965.7
127.5°	1046.7	1047.2	1047.8	1048.3	1048.8	1049.5	1050.2	1050.9	1051.5	1052.2	1052.8
130°	1104.0	1105.3	1106.7	1108.0	1109.3	1110.3	1111.1	1111.8	1112.5	1113.1	1113.1
132.5°	1164.9	1165.4	1166.0	1166.5	1167.0	1167.6	1168.3	1169.0	1169.7	1170.3	1170.6
135°	1248.6	1249.6	1250.6	1251.6	1252.6	1253.5	1254.3	1254.9	1255.6	1256.3	1256.3
137.5°	1336.7	1336.5	1336.3	1336.1	1335.8	1336.2	1337.1	1338.0	1338.8	1339.7	1339.2
140°	1390.3	1390.6	1390.9	1391.3	1391.6	1391.9	1392.3	1392.6	1392.9	1393.3	1393.3
142.5°	1443.8	1443.9	1444.0	1444.0	1444.1	1444.2	1444.2	1444.3	1444.4	1444.4	1444.7
145°	1516.6	1517.6	1518.6	1519.6	1520.7	1521.4	1521.7	1522.1	1522.4	1522.7	1522.4
147.5°	1590.3	1590.6	1591.0	1591.3	1591.6	1592.0	1592.3	1592.6	1592.8	1593.1	1593.4
150°	1635.4	1635.8	1636.1	1636.4	1636.8	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9
152.5°	1676.8	1677.7	1678.6	1679.4	1680.3	1680.3	1679.5	1678.7	1677.9	1677.1	1676.9
155°	1734.3	1735.8	1737.1	1738.4	1739.8	1739.8	1738.4	1737.1	1735.8	1734.3	1734.7
157.5°	1785.8	1787.0	1788.2	1789.3	1790.4	1790.5	1789.5	1788.5	1787.5	1786.5	1786.6
160°	1815.0	1816.7	1818.5	1820.2	1821.8	1822.2	1821.2	1820.2	1819.2	1818.2	1818.5
162.5°	1845.5	1847.2	1849.0	1850.6	1852.3	1852.2	1850.4	1848.6	1846.7	1844.9	1845.2
165°	1885.1	1886.4	1887.8	1889.2	1890.6	1890.2	1888.1	1886.1	1884.1	1882.1	1882.8
167.5°	1913.4	1915.5	1917.6	1919.8	1921.9	1921.9	1919.9	1917.8	1915.8	1913.8	1913.7
170°	1929.2	1931.7	1934.0	1936.4	1938.7	1938.9	1936.9	1934.9	1932.8	1930.8	1930.5
172.5°	1942.7	1945.0	1947.4	1949.7	1952.2	1952.2	1949.8	1947.6	1945.3	1943.0	1942.9
175°	1956.7	1959.0	1961.5	1963.8	1966.2	1966.2	1963.8	1961.5	1959.0	1956.7	1957.0
177.5°	1964.0	1966.2	1968.3	1970.4	1972.7	1972.8	1970.9	1969.0	1967.1	1965.2	1965.2
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1004.8	1000.4	998.2	993.1	987.1	984.0	981.2	977.1	971.8	966.1	962.0
5°	1055.8	1046.3	1034.5	1020.4	1007.8	995.6	985.0	974.4	962.3	949.7	937.2
7.5°	1108.1	1089.5	1069.5	1046.3	1023.8	1003.3	984.4	966.3	945.9	927.6	910.9
10°	1144.6	1119.4	1091.6	1062.1	1032.6	1007.0	981.9	959.1	933.9	911.6	892.7
12.5°	1174.2	1144.6	1111.1	1074.3	1038.8	1007.9	979.1	949.4	920.8	896.5	871.3
15°	1223.1	1182.7	1137.5	1093.5	1047.5	1005.5	966.5	932.0	899.4	865.3	841.2
17.5°	1256.9	1208.8	1154.0	1101.1	1046.7	997.1	952.3	911.1	873.4	838.6	810.0
20°	1277.0	1224.0	1163.1	1102.9	1042.0	989.0	940.7	895.0	856.2	818.5	789.0
22.5°	1288.3	1229.6	1163.1	1100.0	1037.0	979.6	926.6	879.1	836.7	799.0	766.4
25°	1291.9	1229.0	1161.0	1088.7	1019.7	958.8	903.7	852.2	805.1	767.4	732.8
27.5°	1286.9	1212.8	1143.3	1069.0	997.7	933.5	875.8	821.6	774.5	734.0	698.5
30°	1279.3	1200.0	1125.3	1048.3	976.0	914.3	853.4	801.5	752.5	710.4	674.7
32.5°	1263.0	1184.3	1104.0	1025.0	951.8	888.3	830.5	778.3	730.1	687.1	649.1
35°	1230.6	1150.8	1063.6	982.7	910.8	844.8	790.5	740.2	694.3	648.3	608.2
37.5°	1187.9	1106.5	1019.7	931.1	859.1	796.8	747.0	699.8	654.9	613.0	568.6
40°	1147.7	1073.5	983.9	895.9	822.0	761.8	715.9	673.1	627.9	586.2	541.8
42.5°	1099.0	1035.7	945.2	856.9	784.0	726.0	683.2	641.4	600.3	559.9	513.5
45°	1017.6	969.8	884.8	800.0	726.5	669.1	629.9	592.9	556.7	518.3	474.6
47.5°	924.4	892.0	818.8	731.8	663.9	612.3	574.3	544.1	513.5	475.0	436.8
50°	859.7	838.9	768.2	688.8	624.0	576.4	537.6	509.2	483.7	446.8	412.5
52.5°	790.5	779.5	719.7	643.8	581.2	534.6	501.4	475.9	450.1	419.4	387.4
55°	685.3	691.2	640.5	574.8	515.9	476.7	446.4	425.2	403.1	377.2	352.4
57.5°	577.5	599.2	565.1	507.5	452.2	416.0	393.1	375.3	356.9	335.3	314.2
60°	513.1	531.2	512.0	461.3	412.9	379.2	358.0	344.2	325.7	306.1	289.9
62.5°	450.3	469.6	458.2	417.3	372.4	343.4	324.7	311.8	298.1	280.9	264.2
65°	371.3	383.8	378.4	350.1	318.3	293.5	276.2	266.8	254.2	241.7	226.7
67.5°	284.4	308.7	305.5	290.4	263.0	243.6	232.3	224.0	212.5	203.2	193.0
70°	233.8	256.2	255.8	243.6	228.6	210.6	202.8	195.7	185.4	176.4	168.1
72.5°	191.4	211.9	214.9	205.6	195.4	181.7	174.1	169.3	159.4	153.2	146.4
75°	134.0	149.0	152.9	152.9	148.1	141.1	134.4	131.3	124.1	118.7	114.7
77.5°	87.9	97.3	103.4	104.8	105.5	103.2	97.7	95.4	90.1	88.1	84.3
80°	62.1	68.4	75.4	77.8	79.8	79.0	76.6	75.0	70.0	68.0	66.4
82.5°	42.9	46.4	52.2	57.4	56.9	58.9	56.9	55.5	51.7	51.0	49.4
85°	22.4	22.8	23.5	27.1	29.1	29.9	30.3	29.5	28.3	28.3	25.5
87.5°	13.1	12.3	12.4	11.7	11.3	11.8	12.0	11.6	11.4	11.2	11.0
90°	28.1	25.3	22.7	19.5	15.8	12.0	8.3	4.5	8.3	12.0	15.8
92.5°	56.6	54.6	52.7	49.7	45.3	41.1	36.9	32.6	36.9	41.1	45.3
95°	111.0	108.7	106.2	103.5	100.5	97.5	94.4	91.4	94.4	97.5	100.5
97.5°	177.4	174.7	172.0	169.4	166.9	164.4	162.0	159.6	162.0	164.4	166.9
100°	226.9	223.9	220.8	218.6	217.2	215.9	214.5	213.2	214.5	215.9	217.2
102.5°	278.6	275.8	273.1	271.4	270.8	270.3	269.7	269.2	269.7	270.3	270.8
105°	359.7	358.3	357.0	356.2	355.8	355.5	355.2	354.8	355.2	355.5	355.8
107.5°	447.0	446.8	446.6	446.3	445.9	445.5	445.0	444.6	445.0	445.5	445.9
110°	507.8	508.1	508.5	508.3	507.6	506.9	506.2	505.5	506.2	506.9	507.6





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	567.9	568.6	569.2	569.5	569.3	569.2	569.1	568.9	569.1	569.2	569.3
115°	662.2	662.9	663.6	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
117.5°	753.5	754.0	754.5	754.6	754.3	754.0	753.7	753.5	753.7	754.0	754.3
120°	816.7	817.7	818.7	818.5	817.2	815.9	814.5	813.1	814.5	815.9	817.2
122.5°	876.5	877.0	877.5	877.4	876.9	876.4	875.8	875.3	875.8	876.4	876.9
125°	966.0	966.4	966.7	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9
127.5°	1053.3	1053.8	1054.4	1054.1	1053.1	1052.1	1051.1	1050.1	1051.1	1052.1	1053.1
130°	1113.1	1113.1	1113.1	1112.6	1111.6	1110.5	1109.5	1108.5	1109.5	1110.5	1111.6
132.5°	1170.9	1171.1	1171.4	1171.2	1170.4	1169.7	1169.0	1168.2	1169.0	1169.7	1170.4
135°	1256.3	1256.3	1256.3	1255.3	1253.2	1251.1	1249.1	1247.1	1249.1	1251.1	1253.2
137.5°	1338.6	1338.1	1337.6	1336.8	1335.8	1334.8	1333.9	1333.0	1333.9	1334.8	1335.8
140°	1393.3	1393.3	1393.3	1392.9	1392.3	1391.6	1390.9	1390.3	1390.9	1391.6	1392.3
142.5°	1445.0	1445.2	1445.5	1445.3	1444.6	1444.0	1443.3	1442.6	1443.3	1444.0	1444.6
145°	1522.1	1521.7	1521.4	1520.6	1519.1	1517.8	1516.4	1515.1	1516.4	1517.8	1519.1
147.5°	1593.6	1593.9	1594.2	1593.5	1591.9	1590.2	1588.6	1587.0	1588.6	1590.2	1591.9
150°	1636.9	1636.9	1636.9	1636.3	1634.9	1633.6	1632.1	1630.8	1632.1	1633.6	1634.9
152.5°	1676.6	1676.3	1676.1	1675.5	1674.7	1673.9	1673.0	1672.2	1673.0	1673.9	1674.7
155°	1735.0	1735.4	1735.8	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9
157.5°	1786.6	1786.7	1786.8	1787.1	1787.7	1788.3	1788.9	1789.5	1788.9	1788.3	1787.7
160°	1818.8	1819.2	1819.5	1819.8	1820.2	1820.5	1820.8	1821.2	1820.8	1820.5	1820.2
162.5°	1845.6	1845.9	1846.2	1846.8	1847.8	1848.7	1849.6	1850.4	1849.6	1848.7	1847.8
165°	1883.4	1884.1	1884.8	1885.6	1886.6	1887.6	1888.6	1889.7	1888.6	1887.6	1886.6
167.5°	1913.6	1913.6	1913.5	1914.2	1915.6	1917.0	1918.4	1919.9	1918.4	1917.0	1915.6
170°	1930.2	1929.8	1929.4	1930.2	1931.8	1933.5	1935.2	1936.9	1935.2	1933.5	1931.8
172.5°	1942.9	1942.8	1942.7	1943.4	1944.8	1946.2	1947.6	1949.0	1947.6	1946.2	1944.8
175°	1957.3	1957.7	1958.0	1959.0	1960.8	1962.5	1964.1	1965.8	1964.1	1962.5	1960.8
177.5°	1965.2	1965.2	1965.2	1965.9	1967.2	1968.6	1969.9	1971.3	1969.9	1968.6	1967.2
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	957.7	954.5	950.4	945.6	940.0	935.0	932.8	934.6	935.6	933.1	932.8
5°	928.5	918.7	910.8	899.0	889.6	881.7	876.2	873.8	874.6	868.4	866.8
7.5°	895.6	884.0	871.2	857.2	844.1	832.6	826.6	823.2	816.6	813.7	808.9
10°	874.6	858.9	846.4	829.8	815.0	801.1	794.5	789.0	782.3	779.1	772.4
12.5°	852.9	834.8	820.9	803.8	788.5	771.9	765.6	755.4	744.9	738.3	729.7
15°	822.3	800.4	783.5	763.1	745.0	726.1	709.2	690.3	683.3	668.3	659.7
17.5°	786.6	764.3	743.4	716.0	688.1	664.7	646.6	628.6	617.7	608.2	603.8
20°	763.1	742.7	713.6	681.8	650.7	624.7	610.2	598.4	586.6	580.0	575.2
22.5°	740.7	714.7	680.9	646.5	615.5	595.2	582.9	570.8	561.2	554.8	548.6
25°	703.4	669.1	633.4	594.1	572.9	555.2	541.8	532.0	526.1	517.9	514.7
27.5°	664.9	623.5	584.0	557.6	535.5	519.4	507.8	500.4	492.9	487.6	483.5
30°	635.3	593.3	558.0	532.8	510.4	497.1	487.6	479.0	473.1	468.8	465.6
32.5°	606.1	564.1	534.3	507.4	489.7	476.7	466.6	460.1	455.4	449.9	448.0
35°	563.8	526.5	500.6	476.3	458.2	446.4	438.5	431.8	427.9	426.4	425.2
37.5°	523.2	492.6	464.7	444.7	428.7	419.4	410.1	406.9	404.1	401.3	402.6
40°	497.5	468.8	444.0	422.8	409.8	399.6	394.0	390.2	387.8	387.8	387.8
42.5°	475.1	447.1	422.9	403.9	390.9	382.3	376.2	372.8	372.1	371.7	373.7
45°	440.5	414.5	390.2	374.5	363.5	354.8	351.2	348.5	348.5	350.1	350.5
47.5°	406.2	381.8	362.2	344.7	334.6	329.2	326.1	324.7	324.9	326.4	328.2
50°	385.1	361.1	341.8	326.1	316.7	311.5	308.8	308.0	308.8	308.8	311.5
52.5°	362.1	340.6	321.7	308.5	297.8	293.1	291.5	290.4	290.9	292.2	293.4
55°	328.5	309.2	291.1	278.6	270.7	267.6	264.1	264.5	263.7	264.5	264.5
57.5°	294.8	277.5	260.6	250.6	243.8	239.2	235.4	236.4	235.3	235.1	234.5
60°	273.1	254.2	240.9	231.9	224.0	220.0	216.5	217.3	216.1	215.3	213.8
62.5°	249.5	233.8	221.1	212.4	206.0	201.5	197.9	197.1	194.4	191.8	188.2
65°	215.3	202.4	191.0	182.7	176.8	173.3	170.6	168.1	162.3	156.0	152.9
67.5°	182.1	172.7	162.1	155.1	150.4	145.7	140.5	136.4	130.9	127.4	125.5
70°	160.7	151.7	142.6	135.9	130.9	126.5	120.6	117.9	113.9	112.4	110.4
72.5°	140.3	131.9	123.4	117.4	112.0	108.6	104.0	101.2	99.5	98.9	96.8
75°	109.3	102.6	96.2	90.8	86.4	84.1	82.1	80.2	79.4	75.8	73.8
77.5°	79.7	75.2	71.4	67.5	64.3	62.8	59.0	56.8	55.4	53.7	53.3
80°	62.1	59.0	55.0	52.6	48.4	46.8	45.1	44.8	44.4	44.0	43.6
82.5°	46.7	43.5	39.6	38.2	37.1	36.1	35.1	34.7	34.3	34.5	34.5
85°	23.5	22.0	22.0	21.6	21.2	20.8	20.4	20.4	20.0	20.4	20.0
87.5°	11.7	12.1	12.6	12.5	13.4	13.9	14.0	14.4	15.1	14.9	15.1
90°	19.5	22.7	25.3	28.1	30.8	33.5	35.5	37.6	39.6	41.6	43.0
92.5°	49.7	52.7	54.6	56.6	58.4	60.3	61.5	62.7	63.9	65.1	65.9
95°	103.5	106.2	108.7	111.0	113.4	115.7	116.7	117.8	118.8	119.8	120.3
97.5°	169.4	172.0	174.7	177.4	180.3	183.0	184.2	185.5	186.7	187.9	188.5
100°	218.6	220.8	223.9	226.9	229.9	233.0	233.7	234.3	235.0	235.7	236.0
102.5°	271.4	273.1	275.8	278.6	281.3	284.2	285.1	286.0	287.0	287.9	288.5
105°	356.2	357.0	358.3	359.7	361.0	362.4	363.5	364.5	365.5	366.5	367.5
107.5°	446.3	446.6	446.8	447.0	447.2	447.4	448.3	449.3	450.2	451.2	451.6
110°	508.3	508.5	508.1	507.8	507.4	507.1	506.3	505.7	505.0	504.3	504.5



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	569.5	569.2	568.6	567.9	567.3	566.7	566.6	566.4	566.3	566.2	566.2
115°	663.9	663.6	662.9	662.2	661.6	660.9	660.6	660.1	659.8	659.5	659.1
117.5°	754.6	754.5	754.0	753.5	753.0	752.6	751.3	750.2	749.1	747.9	747.0
120°	818.5	818.7	817.7	816.7	815.7	814.7	812.9	811.2	809.6	807.9	807.4
122.5°	877.4	877.5	877.0	876.5	876.1	875.6	874.4	873.2	872.1	871.0	869.8
125°	966.9	966.7	966.4	966.0	965.7	965.4	964.7	964.0	963.4	962.7	962.0
127.5°	1054.1	1054.4	1053.8	1053.3	1052.8	1052.2	1051.5	1050.9	1050.2	1049.5	1048.8
130°	1112.6	1113.1	1113.1	1113.1	1113.1	1113.1	1112.5	1111.8	1111.1	1110.3	1109.3
132.5°	1171.2	1171.4	1171.1	1170.9	1170.6	1170.3	1169.7	1169.0	1168.3	1167.6	1167.0
135°	1255.3	1256.3	1256.3	1256.3	1256.3	1256.3	1255.6	1254.9	1254.3	1253.5	1252.6
137.5°	1336.8	1337.6	1338.1	1338.6	1339.2	1339.7	1338.8	1338.0	1337.1	1336.2	1335.8
140°	1392.9	1393.3	1393.3	1393.3	1393.3	1393.3	1392.9	1392.6	1392.3	1391.9	1391.6
142.5°	1445.3	1445.5	1445.2	1445.0	1444.7	1444.4	1444.4	1444.3	1444.2	1444.2	1444.1
145°	1520.6	1521.4	1521.7	1522.1	1522.4	1522.7	1522.4	1522.1	1521.7	1521.4	1520.7
147.5°	1593.5	1594.2	1593.9	1593.6	1593.4	1593.1	1592.8	1592.6	1592.3	1592.0	1591.6
150°	1636.3	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.8
152.5°	1675.5	1676.1	1676.3	1676.6	1676.9	1677.1	1677.9	1678.7	1679.5	1680.3	1680.3
155°	1735.9	1735.8	1735.4	1735.0	1734.7	1734.3	1735.8	1737.1	1738.4	1739.8	1739.8
157.5°	1787.1	1786.8	1786.7	1786.6	1786.6	1786.5	1787.5	1788.5	1789.5	1790.5	1790.4
160°	1819.8	1819.5	1819.2	1818.8	1818.5	1818.2	1819.2	1820.2	1821.2	1822.2	1821.8
162.5°	1846.8	1846.2	1845.9	1845.6	1845.2	1844.9	1846.7	1848.6	1850.4	1852.2	1852.3
165°	1885.6	1884.8	1884.1	1883.4	1882.8	1882.1	1884.1	1886.1	1888.1	1890.2	1890.6
167.5°	1914.2	1913.5	1913.6	1913.6	1913.7	1913.8	1915.8	1917.8	1919.9	1921.9	1921.9
170°	1930.2	1929.4	1929.8	1930.2	1930.5	1930.8	1932.8	1934.9	1936.9	1938.9	1938.7
172.5°	1943.4	1942.7	1942.8	1942.9	1942.9	1943.0	1945.3	1947.6	1949.8	1952.2	1952.2
175°	1959.0	1958.0	1957.7	1957.3	1957.0	1956.7	1959.0	1961.5	1963.8	1966.2	1966.2
177.5°	1965.9	1965.2	1965.2	1965.2	1965.2	1965.2	1967.1	1969.0	1970.9	1972.8	1972.7
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	930.9	931.5	929.4	928.7	929.4	931.5	930.9	932.8	933.1	935.6	934.6
5°	863.6	862.8	860.9	861.3	860.9	862.8	863.6	866.8	868.4	874.6	873.8
7.5°	806.1	803.0	804.0	800.7	804.0	803.0	806.1	808.9	813.7	816.6	823.2
10°	770.9	766.6	763.1	759.9	763.1	766.6	770.9	772.4	779.1	782.3	789.0
12.5°	722.9	719.1	714.3	715.3	714.3	719.1	722.9	729.7	738.3	744.9	755.4
15°	654.6	648.7	639.2	640.5	639.2	648.7	654.6	659.7	668.3	683.3	690.3
17.5°	596.8	596.9	592.6	593.6	592.6	596.9	596.8	603.8	608.2	617.7	628.6
20°	566.9	564.2	564.6	563.4	564.6	564.2	566.9	575.2	580.0	586.6	598.4
22.5°	546.2	542.9	540.1	537.7	540.1	542.9	546.2	548.6	554.8	561.2	570.8
25°	511.2	508.9	505.3	504.5	505.3	508.9	511.2	514.7	517.9	526.1	532.0
27.5°	480.4	479.9	478.5	476.7	478.5	479.9	480.4	483.5	487.6	492.9	500.4
30°	462.4	461.7	460.9	459.7	460.9	461.7	462.4	465.6	468.8	473.1	479.0
32.5°	446.5	446.0	445.1	445.2	445.1	446.0	446.5	448.0	449.9	455.4	460.1
35°	423.5	423.1	422.4	422.0	422.4	423.1	423.5	425.2	426.4	427.9	431.8
37.5°	402.2	403.2	402.7	402.6	402.7	403.2	402.2	402.6	401.3	404.1	406.9
40°	387.4	387.8	388.6	388.2	388.6	387.8	387.4	387.8	387.8	387.8	390.2
42.5°	375.2	375.3	376.4	375.0	376.4	375.3	375.2	373.7	371.7	372.1	372.8
45°	353.3	355.6	355.2	355.2	355.2	355.6	353.3	350.5	350.1	348.5	348.5
47.5°	329.2	331.3	331.8	331.7	331.8	331.3	329.2	328.2	326.4	324.9	324.7
50°	313.6	312.8	314.0	313.6	314.0	312.8	313.6	311.5	308.8	308.8	308.0
52.5°	294.4	294.6	294.5	294.1	294.5	294.6	294.4	293.4	292.2	290.9	290.4
55°	264.8	265.2	264.5	264.8	264.5	265.2	264.8	264.5	264.5	263.7	264.5
57.5°	232.8	230.9	231.7	230.8	231.7	230.9	232.8	234.5	235.1	235.3	236.4
60°	209.8	206.7	205.9	204.3	205.9	206.7	209.8	213.8	215.3	216.1	217.3
62.5°	184.0	181.9	179.2	180.5	179.2	181.9	184.0	188.2	191.8	194.4	197.1
65°	149.7	148.1	146.9	148.6	146.9	148.1	149.7	152.9	156.0	162.3	168.1
67.5°	123.9	123.1	123.1	122.3	123.1	123.1	123.9	125.5	127.4	130.9	136.4
70°	110.4	109.3	109.3	108.5	109.3	109.3	110.4	110.4	112.4	113.9	117.9
72.5°	96.5	95.4	95.7	95.2	95.7	95.4	96.5	96.8	98.9	99.5	101.2
75°	71.5	69.6	69.6	70.0	69.6	69.6	71.5	73.8	75.8	79.4	80.2
77.5°	53.3	52.9	53.5	52.8	53.5	52.9	53.3	53.3	53.7	55.4	56.8
80°	43.6	43.2	42.8	44.0	42.8	43.2	43.6	43.6	44.0	44.4	44.8
82.5°	33.8	33.8	33.7	35.2	33.7	33.8	33.8	34.5	34.5	34.3	34.7
85°	20.4	19.7	20.4	19.7	20.4	19.7	20.4	20.0	20.4	20.0	20.4
87.5°	16.0	15.8	15.6	16.1	15.6	15.8	16.0	15.1	14.9	15.1	14.4
90°	43.6	44.3	45.0	45.6	45.0	44.3	43.6	43.0	41.6	39.6	37.6
92.5°	66.3	66.8	67.2	67.6	67.2	66.8	66.3	65.9	65.1	63.9	62.7
95°	120.3	120.3	120.3	120.3	120.3	120.3	120.3	120.3	119.8	118.8	117.8
97.5°	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	187.9	186.7	185.5
100°	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	235.7	235.0	234.3
102.5°	288.8	289.1	289.3	289.6	289.3	289.1	288.8	288.5	287.9	287.0	286.0
105°	368.5	369.5	370.5	371.5	370.5	369.5	368.5	367.5	366.5	365.5	364.5
107.5°	451.5	451.5	451.4	451.3	451.4	451.5	451.5	451.6	451.2	450.2	449.3
110°	505.5	506.5	507.6	508.6	507.6	506.5	505.5	504.5	504.3	505.0	505.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	566.4	566.6	566.8	567.0	566.8	566.6	566.4	566.2	566.2	566.3	566.4
115°	658.8	658.5	658.1	657.8	658.1	658.5	658.8	659.1	659.5	659.8	660.1
117.5°	746.3	745.7	745.0	744.3	745.0	745.7	746.3	747.0	747.9	749.1	750.2
120°	808.1	808.7	809.4	810.1	809.4	808.7	808.1	807.4	807.9	809.6	811.2
122.5°	868.6	867.4	866.2	864.9	866.2	867.4	868.6	869.8	871.0	872.1	873.2
125°	961.3	960.7	960.0	959.3	960.0	960.7	961.3	962.0	962.7	963.4	964.0
127.5°	1048.3	1047.8	1047.2	1046.7	1047.2	1047.8	1048.3	1048.8	1049.5	1050.2	1050.9
130°	1108.0	1106.7	1105.3	1104.0	1105.3	1106.7	1108.0	1109.3	1110.3	1111.1	1111.8
132.5°	1166.5	1166.0	1165.4	1164.9	1165.4	1166.0	1166.5	1167.0	1167.6	1168.3	1169.0
135°	1251.6	1250.6	1249.6	1248.6	1249.6	1250.6	1251.6	1252.6	1253.5	1254.3	1254.9
137.5°	1336.1	1336.3	1336.5	1336.7	1336.5	1336.3	1336.1	1335.8	1336.2	1337.1	1338.0
140°	1391.3	1390.9	1390.6	1390.3	1390.6	1390.9	1391.3	1391.6	1391.9	1392.3	1392.6
142.5°	1444.0	1444.0	1443.9	1443.8	1443.9	1444.0	1444.0	1444.1	1444.2	1444.2	1444.3
145°	1519.6	1518.6	1517.6	1516.6	1517.6	1518.6	1519.6	1520.7	1521.4	1521.7	1522.1
147.5°	1591.3	1591.0	1590.6	1590.3	1590.6	1591.0	1591.3	1591.6	1592.0	1592.3	1592.6
150°	1636.4	1636.1	1635.8	1635.4	1635.8	1636.1	1636.4	1636.8	1636.9	1636.9	1636.9
152.5°	1679.4	1678.6	1677.7	1676.8	1677.7	1678.6	1679.4	1680.3	1680.3	1679.5	1678.7
155°	1738.4	1737.1	1735.8	1734.3	1735.8	1737.1	1738.4	1739.8	1739.8	1738.4	1737.1
157.5°	1789.3	1788.2	1787.0	1785.8	1787.0	1788.2	1789.3	1790.4	1790.5	1789.5	1788.5
160°	1820.2	1818.5	1816.7	1815.0	1816.7	1818.5	1820.2	1821.8	1822.2	1821.2	1820.2
162.5°	1850.6	1849.0	1847.2	1845.5	1847.2	1849.0	1850.6	1852.3	1852.2	1850.4	1848.6
165°	1889.2	1887.8	1886.4	1885.1	1886.4	1887.8	1889.2	1890.6	1890.2	1888.1	1886.1
167.5°	1919.8	1917.6	1915.5	1913.4	1915.5	1917.6	1919.8	1921.9	1921.9	1919.9	1917.8
170°	1936.4	1934.0	1931.7	1929.2	1931.7	1934.0	1936.4	1938.7	1938.9	1936.9	1934.9
172.5°	1949.7	1947.4	1945.0	1942.7	1945.0	1947.4	1949.7	1952.2	1952.2	1949.8	1947.6
175°	1963.8	1961.5	1959.0	1956.7	1959.0	1961.5	1963.8	1966.2	1966.2	1963.8	1961.5
177.5°	1970.4	1968.3	1966.2	1964.0	1966.2	1968.3	1970.4	1972.7	1972.8	1970.9	1969.0
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	932.8	935.0	940.0	945.6	950.4	954.5	957.7	962.0	966.1	971.8	977.1
5°	876.2	881.7	889.6	899.0	910.8	918.7	928.5	937.2	949.7	962.3	974.4
7.5°	826.6	832.6	844.1	857.2	871.2	884.0	895.6	910.9	927.6	945.9	966.3
10°	794.5	801.1	815.0	829.8	846.4	858.9	874.6	892.7	911.6	933.9	959.1
12.5°	765.6	771.9	788.5	803.8	820.9	834.8	852.9	871.3	896.5	920.8	949.4
15°	709.2	726.1	745.0	763.1	783.5	800.4	822.3	841.2	865.3	899.4	932.0
17.5°	646.6	664.7	688.1	716.0	743.4	764.3	786.6	810.0	838.6	873.4	911.1
20°	610.2	624.7	650.7	681.8	713.6	742.7	763.1	789.0	818.5	856.2	895.0
22.5°	582.9	595.2	615.5	646.5	680.9	714.7	740.7	766.4	799.0	836.7	879.1
25°	541.8	555.2	572.9	594.1	633.4	669.1	703.4	732.8	767.4	805.1	852.2
27.5°	507.8	519.4	535.5	557.6	584.0	623.5	664.9	698.5	734.0	774.5	821.6
30°	487.6	497.1	510.4	532.8	558.0	593.3	635.3	674.7	710.4	752.5	801.5
32.5°	466.6	476.7	489.7	507.4	534.3	564.1	606.1	649.1	687.1	730.1	778.3
35°	438.5	446.4	458.2	476.3	500.6	526.5	563.8	608.2	648.3	694.3	740.2
37.5°	410.1	419.4	428.7	444.7	464.7	492.6	523.2	568.6	613.0	654.9	699.8
40°	394.0	399.6	409.8	422.8	444.0	468.8	497.5	541.8	586.2	627.9	673.1
42.5°	376.2	382.3	390.9	403.9	422.9	447.1	475.1	513.5	559.9	600.3	641.4
45°	351.2	354.8	363.5	374.5	390.2	414.5	440.5	474.6	518.3	556.7	592.9
47.5°	326.1	329.2	334.6	344.7	362.2	381.8	406.2	436.8	475.0	513.5	544.1
50°	308.8	311.5	316.7	326.1	341.8	361.1	385.1	412.5	446.8	483.7	509.2
52.5°	291.5	293.1	297.8	308.5	321.7	340.6	362.1	387.4	419.4	450.1	475.9
55°	264.1	267.6	270.7	278.6	291.1	309.2	328.5	352.4	377.2	403.1	425.2
57.5°	235.4	239.2	243.8	250.6	260.6	277.5	294.8	314.2	335.3	356.9	375.3
60°	216.5	220.0	224.0	231.9	240.9	254.2	273.1	289.9	306.1	325.7	344.2
62.5°	197.9	201.5	206.0	212.4	221.1	233.8	249.5	264.2	280.9	298.1	311.8
65°	170.6	173.3	176.8	182.7	191.0	202.4	215.3	226.7	241.7	254.2	266.8
67.5°	140.5	145.7	150.4	155.1	162.1	172.7	182.1	193.0	203.2	212.5	224.0
70°	120.6	126.5	130.9	135.9	142.6	151.7	160.7	168.1	176.4	185.4	195.7
72.5°	104.0	108.6	112.0	117.4	123.4	131.9	140.3	146.4	153.2	159.4	169.3
75°	82.1	84.1	86.4	90.8	96.2	102.6	109.3	114.7	118.7	124.1	131.3
77.5°	59.0	62.8	64.3	67.5	71.4	75.2	79.7	84.3	88.1	90.1	95.4
80°	45.1	46.8	48.4	52.6	55.0	59.0	62.1	66.4	68.0	70.0	75.0
82.5°	35.1	36.1	37.1	38.2	39.6	43.5	46.7	49.4	51.0	51.7	55.5
85°	20.4	20.8	21.2	21.6	22.0	22.0	23.5	25.5	28.3	28.3	29.5
87.5°	14.0	13.9	13.4	12.5	12.6	12.1	11.7	11.0	11.2	11.4	11.6
90°	35.5	33.5	30.8	28.1	25.3	22.7	19.5	15.8	12.0	8.3	4.5
92.5°	61.5	60.3	58.4	56.6	54.6	52.7	49.7	45.3	41.1	36.9	32.6
95°	116.7	115.7	113.4	111.0	108.7	106.2	103.5	100.5	97.5	94.4	91.4
97.5°	184.2	183.0	180.3	177.4	174.7	172.0	169.4	166.9	164.4	162.0	159.6
100°	233.7	233.0	229.9	226.9	223.9	220.8	218.6	217.2	215.9	214.5	213.2
102.5°	285.1	284.2	281.3	278.6	275.8	273.1	271.4	270.8	270.3	269.7	269.2
105°	363.5	362.4	361.0	359.7	358.3	357.0	356.2	355.8	355.5	355.2	354.8
107.5°	448.3	447.4	447.2	447.0	446.8	446.6	446.3	445.9	445.5	445.0	444.6
110°	506.3	507.1	507.4	507.8	508.1	508.5	508.3	507.6	506.9	506.2	505.5



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	566.6	566.7	567.3	567.9	568.6	569.2	569.5	569.3	569.2	569.1	568.9
115°	660.6	660.9	661.6	662.2	662.9	663.6	663.9	663.9	663.9	663.9	663.9
117.5°	751.3	752.6	753.0	753.5	754.0	754.5	754.6	754.3	754.0	753.7	753.5
120°	812.9	814.7	815.7	816.7	817.7	818.7	818.5	817.2	815.9	814.5	813.1
122.5°	874.4	875.6	876.1	876.5	877.0	877.5	877.4	876.9	876.4	875.8	875.3
125°	964.7	965.4	965.7	966.0	966.4	966.7	966.9	966.9	966.9	966.9	966.9
127.5°	1051.5	1052.2	1052.8	1053.3	1053.8	1054.4	1054.1	1053.1	1052.1	1051.1	1050.1
130°	1112.5	1113.1	1113.1	1113.1	1113.1	1113.1	1112.6	1111.6	1110.5	1109.5	1108.5
132.5°	1169.7	1170.3	1170.6	1170.9	1171.1	1171.4	1171.2	1170.4	1169.7	1169.0	1168.2
135°	1255.6	1256.3	1256.3	1256.3	1256.3	1256.3	1255.3	1253.2	1251.1	1249.1	1247.1
137.5°	1338.8	1339.7	1339.2	1338.6	1338.1	1337.6	1336.8	1335.8	1334.8	1333.9	1333.0
140°	1392.9	1393.3	1393.3	1393.3	1393.3	1393.3	1392.9	1392.3	1391.6	1390.9	1390.3
142.5°	1444.4	1444.4	1444.7	1445.0	1445.2	1445.5	1445.3	1444.6	1444.0	1443.3	1442.6
145°	1522.4	1522.7	1522.4	1522.1	1521.7	1521.4	1520.6	1519.1	1517.8	1516.4	1515.1
147.5°	1592.8	1593.1	1593.4	1593.6	1593.9	1594.2	1593.5	1591.9	1590.2	1588.6	1587.0
150°	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.3	1634.9	1633.6	1632.1	1630.8
152.5°	1677.9	1677.1	1676.9	1676.6	1676.3	1676.1	1675.5	1674.7	1673.9	1673.0	1672.2
155°	1735.8	1734.3	1734.7	1735.0	1735.4	1735.8	1735.9	1735.9	1735.9	1735.9	1735.9
157.5°	1787.5	1786.5	1786.6	1786.6	1786.7	1786.8	1787.1	1787.7	1788.3	1788.9	1789.5
160°	1819.2	1818.2	1818.5	1818.8	1819.2	1819.5	1819.8	1820.2	1820.5	1820.8	1821.2
162.5°	1846.7	1844.9	1845.2	1845.6	1845.9	1846.2	1846.8	1847.8	1848.7	1849.6	1850.4
165°	1884.1	1882.1	1882.8	1883.4	1884.1	1884.8	1885.6	1886.6	1887.6	1888.6	1889.7
167.5°	1915.8	1913.8	1913.7	1913.6	1913.6	1913.5	1914.2	1915.6	1917.0	1918.4	1919.9
170°	1932.8	1930.8	1930.5	1930.2	1929.8	1929.4	1930.2	1931.8	1933.5	1935.2	1936.9
172.5°	1945.3	1943.0	1942.9	1942.9	1942.8	1942.7	1943.4	1944.8	1946.2	1947.6	1949.0
175°	1959.0	1956.7	1957.0	1957.3	1957.7	1958.0	1959.0	1960.8	1962.5	1964.1	1965.8
177.5°	1967.1	1965.2	1965.2	1965.2	1965.2	1965.2	1965.9	1967.2	1968.6	1969.9	1971.3
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	981.2	984.0	987.1	993.1	998.2	1000.4	1004.8	1007.9	1006.9	1011.4	1019.0
5°	985.0	995.6	1007.8	1020.4	1034.5	1046.3	1055.8	1065.2	1072.7	1081.7	1095.1
7.5°	984.4	1003.3	1023.8	1046.3	1069.5	1089.5	1108.1	1127.0	1143.7	1162.1	1186.0
10°	981.9	1007.0	1032.6	1062.1	1091.6	1119.4	1144.6	1168.1	1190.5	1214.5	1244.8
12.5°	979.1	1007.9	1038.8	1074.3	1111.1	1144.6	1174.2	1208.1	1236.1	1267.0	1302.0
15°	966.5	1005.5	1047.5	1093.5	1137.5	1182.7	1223.1	1264.9	1303.7	1340.6	1384.6
17.5°	952.3	997.1	1046.7	1101.1	1154.0	1208.8	1256.9	1309.4	1349.1	1398.7	1439.6
20°	940.7	989.0	1042.0	1102.9	1163.1	1224.0	1277.0	1330.4	1375.2	1425.1	1477.0
22.5°	926.6	979.6	1037.0	1100.0	1163.1	1229.6	1288.3	1341.4	1396.9	1453.1	1506.5
25°	903.7	958.8	1019.7	1088.7	1161.0	1229.0	1291.9	1358.0	1417.6	1478.5	1526.5
27.5°	875.8	933.5	997.7	1069.0	1143.3	1212.8	1286.9	1357.3	1417.3	1475.9	1517.7
30°	853.4	914.3	976.0	1048.3	1125.3	1200.0	1279.3	1349.7	1412.9	1465.6	1489.1
32.5°	830.5	888.3	951.8	1025.0	1104.0	1184.3	1263.0	1334.9	1393.4	1425.0	1425.6
35°	790.5	844.8	910.8	982.7	1063.6	1150.8	1230.6	1301.3	1337.1	1339.9	1301.3
37.5°	747.0	796.8	859.1	931.1	1019.7	1106.5	1187.9	1235.1	1247.1	1207.1	1135.9
40°	715.9	761.8	822.0	895.9	983.9	1073.5	1147.7	1182.2	1169.7	1104.9	1025.5
42.5°	683.2	726.0	784.0	856.9	945.2	1035.7	1099.0	1117.5	1084.2	1009.4	916.5
45°	629.9	669.1	726.5	800.0	884.8	969.8	1017.6	1008.2	952.8	864.0	759.9
47.5°	574.3	612.3	663.9	731.8	818.8	892.0	924.4	896.1	817.2	719.5	634.8
50°	537.6	576.4	624.0	688.8	768.2	838.9	859.7	816.5	728.8	635.0	557.1
52.5°	501.4	534.6	581.2	643.8	719.7	779.5	790.5	740.7	650.3	566.1	497.2
55°	446.4	476.7	515.9	574.8	640.5	691.2	685.3	621.2	539.1	467.2	412.9
57.5°	393.1	416.0	452.2	507.5	565.1	599.2	577.5	523.0	446.5	387.6	341.8
60°	358.0	379.2	412.9	461.3	512.0	531.2	513.1	453.8	393.3	339.5	300.9
62.5°	324.7	343.4	372.4	417.3	458.2	469.6	450.3	398.5	344.0	298.0	266.1
65°	276.2	293.5	318.3	350.1	378.4	383.8	371.3	318.3	277.0	238.5	216.5
67.5°	232.3	243.6	263.0	290.4	305.5	308.7	284.4	251.1	214.7	191.1	174.5
70°	202.8	210.6	228.6	243.6	255.8	256.2	233.8	207.0	179.2	160.0	147.7
72.5°	174.1	181.7	195.4	205.6	214.9	211.9	191.4	170.3	147.7	133.2	124.1
75°	134.4	141.1	148.1	152.9	152.9	149.0	134.0	118.3	105.3	96.6	93.9
77.5°	97.7	103.2	105.5	104.8	103.4	97.3	87.9	77.6	72.9	68.9	66.8
80°	76.6	79.0	79.8	77.8	75.4	68.4	62.1	57.8	53.4	51.9	51.1
82.5°	56.9	58.9	56.9	57.4	52.2	46.4	42.9	41.4	39.6	39.0	38.2
85°	30.3	29.9	29.1	27.1	23.5	22.8	22.4	22.0	21.2	21.6	20.8
87.5°	12.0	11.8	11.3	11.7	12.4	12.3	13.1	13.7	14.2	14.3	15.3
90°	8.3	12.0	15.8	19.5	22.7	25.3	28.1	30.8	33.5	35.5	37.6
92.5°	36.9	41.1	45.3	49.7	52.7	54.6	56.6	58.4	60.3	61.5	62.7
95°	94.4	97.5	100.5	103.5	106.2	108.7	111.0	113.4	115.7	116.7	117.8
97.5°	162.0	164.4	166.9	169.4	172.0	174.7	177.4	180.3	183.0	184.2	185.5
100°	214.5	215.9	217.2	218.6	220.8	223.9	226.9	229.9	233.0	233.7	234.3
102.5°	269.7	270.3	270.8	271.4	273.1	275.8	278.6	281.3	284.2	285.1	286.0
105°	355.2	355.5	355.8	356.2	357.0	358.3	359.7	361.0	362.4	363.5	364.5
107.5°	445.0	445.5	445.9	446.3	446.6	446.8	447.0	447.2	447.4	448.3	449.3
110°	506.2	506.9	507.6	508.3	508.5	508.1	507.8	507.4	507.1	506.3	505.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	569.1	569.2	569.3	569.5	569.2	568.6	567.9	567.3	566.7	566.6	566.4
115°	663.9	663.9	663.9	663.9	663.6	662.9	662.2	661.6	660.9	660.6	660.1
117.5°	753.7	754.0	754.3	754.6	754.5	754.0	753.5	753.0	752.6	751.3	750.2
120°	814.5	815.9	817.2	818.5	818.7	817.7	816.7	815.7	814.7	812.9	811.2
122.5°	875.8	876.4	876.9	877.4	877.5	877.0	876.5	876.1	875.6	874.4	873.2
125°	966.9	966.9	966.9	966.9	966.7	966.4	966.0	965.7	965.4	964.7	964.0
127.5°	1051.1	1052.1	1053.1	1054.1	1054.4	1053.8	1053.3	1052.8	1052.2	1051.5	1050.9
130°	1109.5	1110.5	1111.6	1112.6	1113.1	1113.1	1113.1	1113.1	1113.1	1112.5	1111.8
132.5°	1169.0	1169.7	1170.4	1171.2	1171.4	1171.1	1170.9	1170.6	1170.3	1169.7	1169.0
135°	1249.1	1251.1	1253.2	1255.3	1256.3	1256.3	1256.3	1256.3	1256.3	1255.6	1254.9
137.5°	1333.9	1334.8	1335.8	1336.8	1337.6	1338.1	1338.6	1339.2	1339.7	1338.8	1338.0
140°	1390.9	1391.6	1392.3	1392.9	1393.3	1393.3	1393.3	1393.3	1393.3	1392.9	1392.6
142.5°	1443.3	1444.0	1444.6	1445.3	1445.5	1445.2	1445.0	1444.7	1444.4	1444.4	1444.3
145°	1516.4	1517.8	1519.1	1520.6	1521.4	1521.7	1522.1	1522.4	1522.7	1522.4	1522.1
147.5°	1588.6	1590.2	1591.9	1593.5	1594.2	1593.9	1593.6	1593.4	1593.1	1592.8	1592.6
150°	1632.1	1633.6	1634.9	1636.3	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9
152.5°	1673.0	1673.9	1674.7	1675.5	1676.1	1676.3	1676.6	1676.9	1677.1	1677.9	1678.7
155°	1735.9	1735.9	1735.9	1735.9	1735.8	1735.4	1735.0	1734.7	1734.3	1735.8	1737.1
157.5°	1788.9	1788.3	1787.7	1787.1	1786.8	1786.7	1786.6	1786.6	1786.5	1787.5	1788.5
160°	1820.8	1820.5	1820.2	1819.8	1819.5	1819.2	1818.8	1818.5	1818.2	1819.2	1820.2
162.5°	1849.6	1848.7	1847.8	1846.8	1846.2	1845.9	1845.6	1845.2	1844.9	1846.7	1848.6
165°	1888.6	1887.6	1886.6	1885.6	1884.8	1884.1	1883.4	1882.8	1882.1	1884.1	1886.1
167.5°	1918.4	1917.0	1915.6	1914.2	1913.5	1913.6	1913.6	1913.7	1913.8	1915.8	1917.8
170°	1935.2	1933.5	1931.8	1930.2	1929.4	1929.8	1930.2	1930.5	1930.8	1932.8	1934.9
172.5°	1947.6	1946.2	1944.8	1943.4	1942.7	1942.8	1942.9	1942.9	1943.0	1945.3	1947.6
175°	1964.1	1962.5	1960.8	1959.0	1958.0	1957.7	1957.3	1957.0	1956.7	1959.0	1961.5
177.5°	1969.9	1968.6	1967.2	1965.9	1965.2	1965.2	1965.2	1965.2	1965.2	1967.1	1969.0
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1023.0	1024.3	1025.2	1028.3	1028.6	1031.5	1028.6
5°	1107.6	1113.2	1121.8	1130.4	1131.3	1136.7	1126.9
7.5°	1202.5	1215.3	1223.2	1237.2	1242.7	1246.2	1240.5
10°	1268.0	1279.7	1300.6	1310.8	1321.0	1322.5	1317.9
12.5°	1331.1	1349.8	1366.2	1385.6	1385.1	1399.0	1393.9
15°	1415.3	1434.5	1457.3	1478.9	1486.8	1486.8	1493.1
17.5°	1475.3	1510.7	1534.2	1551.2	1569.7	1573.0	1570.7
20°	1515.9	1554.0	1579.1	1601.1	1613.8	1617.3	1617.3
22.5°	1546.1	1578.5	1603.1	1622.9	1633.3	1637.4	1636.1
25°	1567.0	1594.9	1609.8	1615.7	1618.4	1617.6	1610.2
27.5°	1538.3	1537.1	1527.6	1509.5	1496.0	1487.7	1478.3
30°	1483.7	1463.2	1439.7	1413.7	1380.3	1354.7	1347.0
32.5°	1402.3	1356.3	1316.5	1273.2	1237.3	1211.7	1201.0
35°	1244.8	1172.0	1112.8	1060.9	1023.2	999.6	991.7
37.5°	1057.9	987.5	914.1	863.8	832.5	808.7	799.8
40°	939.1	862.4	798.4	751.2	719.0	695.9	695.5
42.5°	830.6	757.5	697.2	663.3	628.5	613.2	613.1
45°	680.1	621.6	570.5	543.8	523.0	510.4	506.9
47.5°	563.1	514.7	480.7	459.4	442.4	434.4	429.2
50°	497.5	455.0	427.9	409.4	400.0	389.8	389.0
52.5°	442.7	408.5	387.4	372.3	360.4	354.3	354.5
55°	372.1	345.0	330.0	318.6	309.2	304.5	302.6
57.5°	313.5	293.2	282.3	271.9	267.8	264.1	263.1
60°	277.0	263.3	253.1	244.8	238.9	237.7	237.3
62.5°	246.8	232.5	225.4	219.0	214.7	212.9	212.2
65°	203.5	192.9	186.6	181.6	180.0	177.2	176.8
67.5°	164.1	157.7	153.6	150.1	147.8	147.7	147.7
70°	139.9	136.3	132.8	130.9	129.7	128.9	128.9
72.5°	119.2	116.5	113.6	112.6	112.4	111.6	111.3
75°	90.8	88.1	88.4	86.4	84.8	82.9	81.7
77.5°	64.3	62.4	62.0	61.8	60.4	60.2	60.8
80°	49.9	48.0	47.6	48.0	47.6	46.4	46.4
82.5°	38.0	36.4	36.0	35.6	35.2	35.6	35.0
85°	20.4	19.7	19.7	19.7	20.4	20.0	19.7
87.5°	15.1	15.2	15.9	15.7	15.8	15.6	16.1
90°	39.6	41.6	43.0	43.6	44.3	45.0	45.6
92.5°	63.9	65.1	65.9	66.3	66.8	67.2	67.6
95°	118.8	119.8	120.3	120.3	120.3	120.3	120.3
97.5°	186.7	187.9	188.5	188.5	188.5	188.5	188.5
100°	235.0	235.7	236.0	236.0	236.0	236.0	236.0
102.5°	287.0	287.9	288.5	288.8	289.1	289.3	289.6
105°	365.5	366.5	367.5	368.5	369.5	370.5	371.5
107.5°	450.2	451.2	451.6	451.5	451.5	451.4	451.3
110°	505.0	504.3	504.5	505.5	506.5	507.6	508.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	566.3	566.2	566.2	566.4	566.6	566.8	567.0
115°	659.8	659.5	659.1	658.8	658.5	658.1	657.8
117.5°	749.1	747.9	747.0	746.3	745.7	745.0	744.3
120°	809.6	807.9	807.4	808.1	808.7	809.4	810.1
122.5°	872.1	871.0	869.8	868.6	867.4	866.2	864.9
125°	963.4	962.7	962.0	961.3	960.7	960.0	959.3
127.5°	1050.2	1049.5	1048.8	1048.3	1047.8	1047.2	1046.7
130°	1111.1	1110.3	1109.3	1108.0	1106.7	1105.3	1104.0
132.5°	1168.3	1167.6	1167.0	1166.5	1166.0	1165.4	1164.9
135°	1254.3	1253.5	1252.6	1251.6	1250.6	1249.6	1248.6
137.5°	1337.1	1336.2	1335.8	1336.1	1336.3	1336.5	1336.7
140°	1392.3	1391.9	1391.6	1391.3	1390.9	1390.6	1390.3
142.5°	1444.2	1444.2	1444.1	1444.0	1444.0	1443.9	1443.8
145°	1521.7	1521.4	1520.7	1519.6	1518.6	1517.6	1516.6
147.5°	1592.3	1592.0	1591.6	1591.3	1591.0	1590.6	1590.3
150°	1636.9	1636.9	1636.8	1636.4	1636.1	1635.8	1635.4
152.5°	1679.5	1680.3	1680.3	1679.4	1678.6	1677.7	1676.8
155°	1738.4	1739.8	1739.8	1738.4	1737.1	1735.8	1734.3
157.5°	1789.5	1790.5	1790.4	1789.3	1788.2	1787.0	1785.8
160°	1821.2	1822.2	1821.8	1820.2	1818.5	1816.7	1815.0
162.5°	1850.4	1852.2	1852.3	1850.6	1849.0	1847.2	1845.5
165°	1888.1	1890.2	1890.6	1889.2	1887.8	1886.4	1885.1
167.5°	1919.9	1921.9	1921.9	1919.8	1917.6	1915.5	1913.4
170°	1936.9	1938.9	1938.7	1936.4	1934.0	1931.7	1929.2
172.5°	1949.8	1952.2	1952.2	1949.7	1947.4	1945.0	1942.7
175°	1963.8	1966.2	1966.2	1963.8	1961.5	1959.0	1956.7
177.5°	1970.9	1972.8	1972.7	1970.4	1968.3	1966.2	1964.0
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8

(END OF REPORT)