

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: P332487-930

Luminaire Tested: **S123RDIW-S1165D1535U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332487-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S1165D1535U930-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

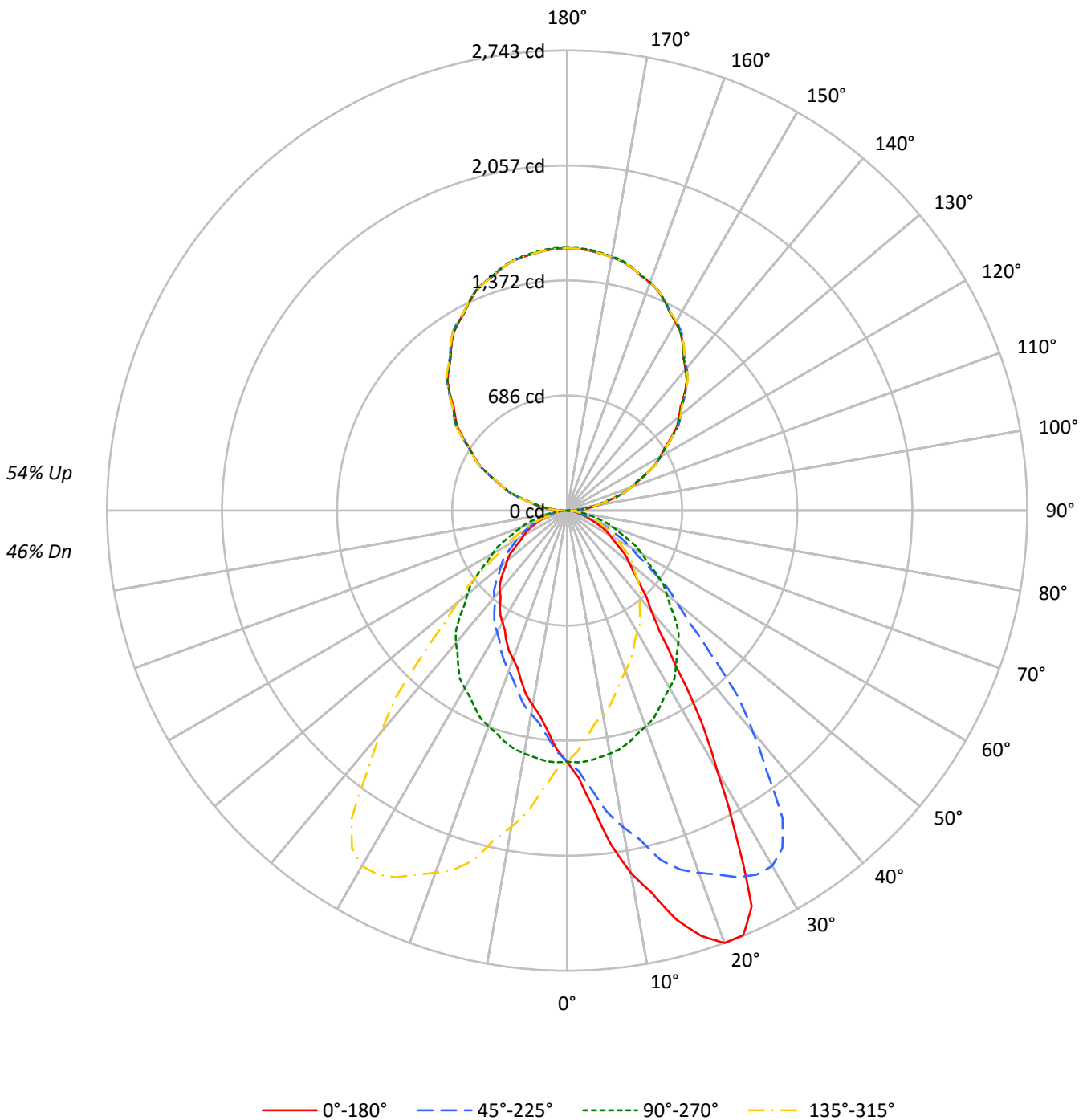
Lumens per Lamp: N/A  
Luminaire Lumens: 8067.9 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	97	93	90	86	89	86	83	80	72	70	68	59	58	56	47	46	46	40
2	89	82	76	71	82	76	71	67	64	60	57	53	50	48	42	41	39	34
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	38	36	34	30
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26
5	69	58	50	44	63	54	47	42	46	40	36	38	34	31	31	28	26	23
6	64	52	44	39	58	48	41	36	41	36	32	35	31	28	28	26	23	20
7	59	47	39	34	54	44	37	32	37	32	28	32	28	25	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	37	30	26	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16	14

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

	0°	90°	180°	270°
0°	16113	16113	16113	16113
5°	19207	16181	14249	16181
10°	23981	16088	12873	16088
15°	28149	15924	11739	15924
20°	31416	15678	10775	15678
25°	30914	15419	10183	15419
30°	22222	15181	9573	15181
35°	14837	14870	9179	14870
40°	10932	14497	8769	14497
45°	9168	13842	8369	13842
50°	8090	12983	7812	12983
55°	7096	12001	7047	12001
60°	6318	11063	6456	11063
65°	5547	10055	6006	10055
70°	4356	9155	5485	9155
75°	3839	7993	5011	7993
80°	3335	6794	4928	6794
85°	2692	5459	5224	5459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.2	1.8
10°-20°	459.9	5.7
20°-30°	722.5	9.0
30°-40°	753.8	9.3
40°-50°	645.1	8.0
50°-60°	491.7	6.1
60°-70°	315.1	3.9
70°-80°	151.6	1.9
80°-90°	44.8	0.6
90°-100°	102.0	1.3
100°-110°	305.2	3.8
110°-120°	519.0	6.4
120°-130°	682.7	8.5
130°-140°	767.4	9.5
140°-150°	754.3	9.3
150°-160°	635.0	7.9
160°-170°	422.7	5.2
170°-180°	148.0	1.8
0°-30°	1329.6	16.5
0°-40°	2083.4	25.8
0°-60°	3220.2	39.9
0°-90°	3731.7	46.3
90°-120°	926.2	11.5
90°-150°	3130.5	38.8
90°-180°	4336.0	53.7
0°-180°	8067.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1497	1497	1497	1497	1497	
5°	1778	1498	1319	1498	1778	184
15°	2526	1429	1053	1429	2526	716
25°	2603	1298	857	1298	2603	1119
35°	1129	1132	698	1132	1129	740
45°	602	909	550	909	602	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	214
75°	92	192	120	192	92	99
85°	22	44	42	44	22	26
90°	37	1	37	1	37	19
95°	96	73	96	73	96	98
105°	293	277	293	277	293	310
115°	524	522	524	522	524	519
125°	756	765	756	765	756	676
135°	991	992	991	992	991	762
145°	1204	1204	1204	1204	1204	751
155°	1376	1378	1376	1378	1376	633
165°	1496	1501	1496	1501	1496	422
175°	1555	1561	1555	1561	1555	148
180°	1565	1565	1565	1565	1565	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1594.3	1596.4	1589.7	1588.7	1580.9	1578.9	1578.9	1568.1	1561.5	1552.8	1547.7
5°	1777.6	1787.9	1782.7	1771.2	1751.9	1747.4	1735.3	1716.0	1694.3	1667.4	1654.6
7.5°	2006.5	2020.5	2015.1	1997.2	1977.1	1960.9	1926.5	1894.6	1849.8	1810.6	1777.0
10°	2194.1	2179.4	2167.8	2150.5	2131.9	2101.8	2066.0	2016.6	1959.6	1914.7	1864.8
12.5°	2334.5	2332.2	2317.5	2299.7	2273.5	2244.8	2200.7	2140.6	2074.4	2009.5	1952.4
15°	2526.0	2529.9	2520.3	2501.7	2464.5	2413.9	2347.2	2322.3	2227.4	2157.0	2086.4
17.5°	2658.5	2657.8	2656.5	2630.7	2592.8	2556.8	2495.0	2429.3	2343.4	2244.1	2149.1
20°	2742.6	2736.2	2737.5	2708.7	2680.5	2638.8	2578.5	2483.1	2412.6	2297.9	2199.8
22.5°	2740.5	2739.3	2744.1	2734.3	2713.8	2681.8	2634.5	2553.8	2463.9	2348.1	2237.8
25°	2602.9	2597.8	2628.0	2636.3	2669.0	2674.7	2660.6	2616.4	2531.2	2412.0	2275.5
27.5°	2178.5	2175.6	2231.6	2301.5	2390.2	2459.1	2525.8	2557.9	2531.2	2445.8	2309.1
30°	1787.9	1848.0	1876.2	1977.5	2090.3	2224.9	2342.8	2454.9	2482.4	2445.3	2333.1
32.5°	1484.3	1536.9	1560.5	1647.4	1752.5	1910.1	2086.9	2245.7	2357.9	2386.3	2318.8
35°	1129.1	1129.8	1183.6	1222.0	1319.4	1481.6	1653.3	1866.0	2077.5	2237.7	2254.3
37.5°	901.0	904.2	936.7	975.0	1048.1	1133.8	1285.1	1461.9	1706.2	1952.2	2096.3
40°	778.0	783.7	808.0	845.9	898.4	963.1	1081.0	1247.7	1451.4	1725.0	1948.6
42.5°	699.0	708.3	720.9	750.0	782.5	843.2	938.5	1067.2	1252.5	1511.2	1769.3
45°	602.3	607.5	617.1	630.6	660.0	702.3	766.4	852.9	1006.7	1215.0	1473.2
47.5°	531.3	528.6	538.7	549.7	569.3	598.1	641.1	711.7	821.4	988.5	1207.5
50°	483.1	482.5	489.6	497.9	516.5	537.6	572.9	626.1	713.2	851.7	1052.2
52.5°	438.1	440.5	445.5	455.8	469.3	486.4	518.0	556.4	631.2	750.6	917.9
55°	378.1	380.0	387.0	392.8	402.4	419.7	439.6	471.7	522.9	606.2	744.0
57.5°	327.3	326.4	333.2	334.6	345.5	359.6	375.0	399.8	437.0	499.0	591.7
60°	293.5	291.6	297.3	301.8	307.6	319.1	331.9	356.3	385.8	431.3	510.7
62.5°	262.7	261.8	266.0	270.5	275.3	285.8	296.5	315.3	338.6	376.9	439.9
65°	217.8	219.8	221.7	223.6	226.2	232.6	242.9	255.7	271.7	298.6	344.1
67.5°	171.2	173.2	173.8	177.7	183.3	187.3	193.6	205.0	216.1	238.8	264.6
70°	138.4	137.8	138.4	140.3	147.4	154.4	162.7	171.1	178.1	194.1	216.0
72.5°	119.0	117.8	119.4	119.8	123.3	125.2	130.4	138.3	147.4	158.2	173.9
75°	92.3	92.3	92.3	92.3	94.8	96.1	98.1	100.0	103.1	108.3	119.8
77.5°	68.2	68.3	69.2	69.9	70.4	71.1	72.3	74.2	75.3	78.0	83.1
80°	53.8	54.5	53.8	54.5	54.5	55.8	56.4	58.3	58.9	62.1	64.1
82.5°	40.5	40.1	40.5	41.2	41.2	42.4	42.6	43.9	44.1	45.7	47.7
85°	21.8	20.5	21.8	21.1	22.4	21.1	21.8	23.1	23.1	23.7	26.3
87.5°	12.5	13.5	12.3	12.7	12.6	13.0	12.7	12.5	13.3	12.6	12.4
90°	36.9	36.4	35.8	35.2	34.7	33.9	32.8	31.7	30.6	29.5	25.9
92.5°	49.7	50.0	50.3	50.6	51.0	50.7	49.8	48.9	48.1	47.2	45.2
95°	95.9	95.9	95.9	95.9	95.9	95.3	94.2	93.2	92.0	91.0	88.8
97.5°	147.6	147.7	147.7	147.9	148.0	147.4	146.1	144.9	143.7	142.4	140.8
100°	186.9	186.3	185.8	185.2	184.7	184.0	183.2	182.4	181.6	180.8	179.4
102.5°	227.2	227.3	227.4	227.6	227.6	227.3	226.5	225.7	224.9	224.0	222.2
105°	292.6	292.0	291.6	291.0	290.4	290.2	290.2	290.2	290.2	290.2	287.7
107.5°	360.7	361.0	361.3	361.7	362.0	361.7	360.9	360.0	359.1	358.2	357.3
110°	406.9	407.5	408.1	408.5	409.1	408.9	407.7	406.7	405.6	404.5	403.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	456.1	456.2	456.3	456.5	456.6	455.9	454.6	453.3	452.0	450.7	450.6
115°	523.7	524.0	524.3	524.6	524.8	524.8	524.6	524.3	524.0	523.7	524.3
117.5°	592.3	593.1	593.9	594.6	595.4	595.8	595.9	595.9	596.0	596.1	596.7
120°	640.5	641.1	641.6	642.2	642.7	643.1	643.4	643.7	643.9	644.2	645.6
122.5°	686.7	687.5	688.3	689.1	689.8	690.6	691.3	691.9	692.7	693.4	694.1
125°	756.1	757.2	758.3	759.4	760.4	761.6	762.6	763.8	764.8	766.0	766.5
127.5°	825.2	826.5	827.7	829.0	830.2	831.6	833.2	834.7	836.2	837.7	838.4
130°	870.4	872.4	874.2	876.2	878.1	879.6	880.7	881.7	882.9	883.9	884.8
132.5°	917.6	919.1	920.6	922.1	923.6	925.0	926.3	927.6	928.9	930.2	930.7
135°	990.9	991.5	992.0	992.5	993.1	993.9	995.0	996.1	997.2	998.3	998.6
137.5°	1055.6	1056.6	1057.7	1058.7	1059.7	1060.9	1062.0	1063.2	1064.3	1065.4	1064.7
140°	1097.9	1099.8	1101.7	1103.6	1105.5	1106.6	1106.9	1107.2	1107.4	1107.7	1107.4
142.5°	1141.2	1142.6	1144.1	1145.6	1147.0	1147.9	1148.2	1148.5	1148.8	1149.0	1148.5
145°	1203.6	1204.7	1205.8	1206.9	1207.9	1208.7	1208.9	1209.2	1209.5	1209.7	1208.9
147.5°	1259.1	1260.8	1262.5	1264.1	1265.8	1266.6	1266.6	1266.6	1266.6	1266.6	1265.8
150°	1294.6	1296.2	1297.9	1299.5	1301.1	1302.0	1302.0	1302.0	1302.0	1302.0	1301.4
152.5°	1329.0	1330.4	1331.9	1333.3	1334.7	1335.2	1334.7	1334.3	1333.9	1333.4	1333.1
155°	1375.7	1377.6	1379.6	1381.4	1383.4	1383.8	1382.7	1381.6	1380.5	1379.4	1379.2
157.5°	1418.3	1419.8	1421.3	1422.9	1424.4	1424.6	1423.4	1422.3	1421.1	1420.0	1419.8
160°	1445.8	1446.9	1448.0	1449.1	1450.2	1450.0	1448.7	1447.3	1445.9	1444.5	1444.5
162.5°	1466.5	1468.2	1470.0	1471.7	1473.5	1473.7	1472.3	1470.9	1469.6	1468.2	1467.9
165°	1496.2	1498.1	1500.1	1501.9	1503.9	1504.0	1502.4	1500.7	1499.1	1497.5	1497.5
167.5°	1521.5	1523.2	1524.9	1526.6	1528.3	1528.3	1526.6	1524.9	1523.2	1521.5	1521.3
170°	1534.3	1536.3	1538.1	1540.1	1542.0	1542.0	1540.1	1538.1	1536.3	1534.3	1534.3
172.5°	1544.2	1546.1	1548.0	1549.9	1551.8	1551.9	1550.2	1548.5	1546.9	1545.2	1545.2
175°	1555.3	1557.1	1559.0	1561.0	1562.8	1563.0	1561.4	1559.7	1558.1	1556.5	1556.5
177.5°	1561.1	1562.7	1564.2	1565.7	1567.2	1567.3	1566.0	1564.7	1563.4	1562.1	1562.1
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1545.6	1544.1	1536.9	1528.7	1517.9	1510.7	1505.1	1502.0	1492.8	1481.6	1473.8
5°	1641.1	1621.9	1601.3	1576.4	1553.3	1529.6	1514.8	1497.5	1476.4	1452.7	1436.1
7.5°	1743.4	1705.7	1665.1	1623.2	1581.8	1544.6	1511.8	1483.7	1450.0	1416.0	1392.2
10°	1821.8	1766.7	1709.7	1651.3	1598.1	1548.2	1509.7	1471.9	1431.6	1392.4	1363.0
12.5°	1893.0	1820.5	1754.8	1683.1	1615.1	1555.3	1500.0	1455.5	1407.0	1365.3	1331.7
15°	1983.3	1908.9	1829.5	1720.5	1630.2	1554.6	1487.3	1429.0	1370.0	1318.7	1286.1
17.5°	2067.6	1955.7	1848.9	1758.1	1640.7	1546.2	1464.1	1394.4	1329.7	1275.3	1235.1
20°	2102.5	1994.1	1878.2	1762.2	1646.8	1541.2	1445.6	1368.7	1301.5	1239.9	1202.8
22.5°	2123.4	2000.8	1878.7	1754.0	1631.5	1521.7	1427.2	1342.6	1269.7	1211.2	1165.4
25°	2148.0	2001.9	1867.3	1744.3	1619.3	1500.2	1388.0	1298.3	1219.4	1157.3	1108.6
27.5°	2164.1	1992.3	1833.2	1696.5	1569.7	1451.0	1348.3	1253.1	1173.2	1107.4	1055.2
30°	2167.1	1984.5	1807.0	1659.1	1530.2	1421.3	1312.4	1221.4	1136.8	1066.9	1018.2
32.5°	2171.3	1965.6	1771.6	1614.5	1482.5	1374.7	1275.9	1189.0	1102.4	1033.6	983.9
35°	2154.3	1955.1	1718.0	1537.2	1405.2	1300.8	1211.8	1131.6	1046.4	979.7	929.2
37.5°	2081.5	1913.4	1662.4	1450.4	1312.4	1215.6	1143.0	1073.2	995.1	923.2	875.5
40°	2008.2	1872.4	1619.3	1397.6	1253.4	1154.1	1088.8	1031.7	956.1	888.8	837.6
42.5°	1899.1	1816.6	1578.3	1342.2	1186.7	1091.0	1035.9	982.4	916.1	847.7	799.6
45°	1698.8	1709.7	1494.4	1254.0	1094.5	998.3	946.5	909.3	850.4	793.9	744.6
47.5°	1447.6	1549.5	1395.8	1160.1	997.2	907.0	861.6	829.2	789.5	734.1	689.1
50°	1283.5	1429.0	1316.9	1097.1	936.2	846.5	801.6	775.3	740.8	697.2	654.3
52.5°	1132.3	1288.5	1221.5	1026.8	870.1	788.1	744.2	722.6	695.1	654.1	615.3
55°	923.4	1081.7	1066.3	920.8	770.9	697.2	663.9	639.5	620.9	590.2	559.5
57.5°	746.9	897.0	904.9	802.9	683.5	610.7	582.0	563.6	551.5	528.3	499.9
60°	635.7	773.5	800.4	723.5	620.9	556.8	528.6	513.9	504.3	485.8	463.9
62.5°	543.4	660.6	691.1	635.8	560.9	501.0	478.9	464.7	458.2	442.1	422.9
65°	415.9	513.3	542.7	512.0	472.9	424.9	406.9	394.8	389.0	380.0	365.9
67.5°	312.7	383.7	416.0	394.4	380.3	349.8	338.4	331.9	326.8	320.7	308.8
70°	251.2	303.7	337.0	331.3	319.8	303.7	295.4	290.9	285.8	280.7	270.4
72.5°	201.9	238.1	269.4	272.3	262.9	259.7	252.3	250.5	247.4	241.2	235.5
75°	134.0	158.9	180.7	189.1	192.9	196.1	192.9	192.2	191.6	186.5	183.3
77.5°	87.8	101.3	115.0	129.2	135.2	139.6	140.6	142.9	141.2	138.5	137.0
80°	67.3	70.5	80.1	92.3	101.9	105.7	108.3	109.6	108.9	108.3	105.7
82.5°	48.8	51.5	56.0	64.6	72.6	79.1	80.6	80.4	81.8	82.2	80.1
85°	26.3	26.9	28.2	29.5	34.0	41.0	43.0	44.2	45.5	45.5	41.7
87.5°	12.7	11.5	11.7	11.2	12.1	12.1	14.6	16.6	17.7	16.2	16.7
90°	22.4	18.8	15.3	12.1	9.5	6.7	4.0	1.2	4.0	6.7	9.5
92.5°	43.1	41.2	39.1	37.2	35.3	33.4	31.6	29.8	31.6	33.4	35.3
95°	86.6	84.4	82.3	80.2	78.3	76.4	74.4	72.6	74.4	76.4	78.3
97.5°	139.2	137.6	136.0	134.5	133.1	131.7	130.3	128.8	130.3	131.7	133.1
100°	178.0	176.6	175.3	173.7	172.1	170.5	168.8	167.2	168.8	170.5	172.1
102.5°	220.4	218.6	216.8	215.4	214.4	213.4	212.5	211.5	212.5	213.4	214.4
105°	285.2	282.7	280.3	278.8	278.3	277.7	277.2	276.6	277.2	277.7	278.3
107.5°	356.3	355.3	354.3	353.7	353.4	353.0	352.7	352.4	352.7	353.0	353.4
110°	403.4	402.8	402.3	401.8	401.2	400.6	400.1	399.6	400.1	400.6	401.2





TEST NUMBER: P332487-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	450.5	450.4	450.3	450.0	449.7	449.4	449.1	448.7	449.1	449.4	449.7
115°	524.8	525.4	525.9	525.8	525.0	524.2	523.3	522.5	523.3	524.2	525.0
117.5°	597.5	598.2	598.8	598.9	598.4	597.9	597.3	596.8	597.3	597.9	598.4
120°	646.9	648.3	649.7	649.5	647.9	646.3	644.7	643.0	644.7	646.3	647.9
122.5°	694.8	695.5	696.3	696.0	694.8	693.6	692.4	691.2	692.4	693.6	694.8
125°	767.0	767.6	768.1	768.0	767.2	766.4	765.5	764.7	765.5	766.4	767.2
127.5°	838.9	839.5	840.2	839.6	837.8	836.1	834.3	832.6	834.3	836.1	837.8
130°	885.6	886.4	887.2	886.6	884.4	882.2	880.0	877.8	880.0	882.2	884.4
132.5°	931.4	932.0	932.6	931.8	929.6	927.4	925.2	923.1	925.2	927.4	929.6
135°	998.8	999.1	999.4	998.7	997.0	995.4	993.8	992.1	993.8	995.4	997.0
137.5°	1064.0	1063.3	1062.6	1061.5	1060.2	1058.8	1057.4	1056.1	1057.4	1058.8	1060.2
140°	1107.2	1106.9	1106.6	1105.8	1104.4	1103.1	1101.7	1100.3	1101.7	1103.1	1104.4
142.5°	1148.0	1147.5	1147.0	1146.1	1144.8	1143.4	1142.0	1140.7	1142.0	1143.4	1144.8
145°	1208.1	1207.3	1206.5	1205.8	1205.3	1204.7	1204.2	1203.6	1204.2	1204.7	1205.3
147.5°	1265.0	1264.3	1263.5	1262.7	1261.7	1260.6	1259.6	1258.7	1259.6	1260.6	1261.7
150°	1300.9	1300.3	1299.8	1299.3	1298.7	1298.1	1297.6	1297.1	1297.6	1298.1	1298.7
152.5°	1332.8	1332.4	1332.1	1331.5	1330.8	1330.1	1329.3	1328.5	1329.3	1330.1	1330.8
155°	1378.8	1378.6	1378.3	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2
157.5°	1419.5	1419.4	1419.1	1419.2	1419.5	1419.8	1420.2	1420.5	1420.2	1419.8	1419.5
160°	1444.5	1444.5	1444.5	1444.9	1445.4	1445.9	1446.5	1447.1	1446.5	1445.9	1445.4
162.5°	1467.8	1467.5	1467.3	1467.6	1468.4	1469.1	1469.9	1470.6	1469.9	1469.1	1468.4
165°	1497.5	1497.5	1497.5	1497.9	1498.7	1499.5	1500.3	1501.1	1500.3	1499.5	1498.7
167.5°	1521.1	1520.9	1520.7	1521.1	1522.2	1523.3	1524.4	1525.5	1524.4	1523.3	1522.2
170°	1534.3	1534.3	1534.3	1534.9	1535.9	1537.1	1538.1	1539.2	1538.1	1537.1	1535.9
172.5°	1545.2	1545.2	1545.2	1545.7	1546.8	1547.8	1549.0	1550.0	1549.0	1547.8	1546.8
175°	1556.5	1556.5	1556.5	1557.0	1558.1	1559.2	1560.3	1561.4	1560.3	1559.2	1558.1
177.5°	1562.1	1562.1	1562.1	1562.5	1563.4	1564.3	1565.2	1566.0	1565.2	1564.3	1563.4
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1471.3	1464.6	1460.0	1449.8	1443.1	1435.9	1428.7	1433.4	1432.8	1432.3	1432.3
5°	1422.0	1407.2	1393.8	1376.5	1365.5	1352.1	1341.8	1340.5	1343.1	1334.2	1329.0
7.5°	1373.0	1352.8	1333.7	1314.7	1294.5	1278.3	1268.1	1263.4	1256.9	1251.3	1245.6
10°	1338.6	1314.9	1296.3	1272.6	1250.8	1231.6	1219.4	1211.1	1206.6	1202.2	1193.8
12.5°	1303.3	1280.1	1256.4	1229.6	1208.8	1186.5	1177.4	1168.1	1159.4	1154.5	1143.0
15°	1251.5	1221.4	1196.4	1168.2	1145.1	1123.3	1110.5	1091.9	1089.3	1083.0	1071.4
17.5°	1199.5	1166.9	1132.5	1111.5	1085.5	1062.8	1043.3	1037.1	1018.7	1011.8	1001.8
20°	1158.5	1128.5	1102.2	1074.6	1036.8	1015.7	1000.3	992.0	977.2	968.2	961.8
22.5°	1123.2	1092.6	1062.2	1030.0	998.9	975.2	963.9	951.0	942.9	930.3	923.4
25°	1072.7	1039.3	1002.8	968.2	945.8	927.9	910.0	898.4	886.9	881.1	868.3
27.5°	1014.0	979.2	945.0	918.8	891.2	873.5	857.3	847.0	833.2	823.5	816.4
30°	981.7	940.7	911.2	887.5	852.2	835.6	823.5	810.7	800.4	790.1	783.1
32.5°	944.3	906.9	878.9	849.5	822.6	804.3	788.6	777.3	768.6	758.8	751.8
35°	885.6	854.2	825.3	795.9	776.0	757.4	738.8	729.2	720.9	711.9	705.6
37.5°	832.5	803.2	775.8	747.8	723.2	708.1	693.1	685.7	674.5	668.5	661.9
40°	799.7	770.9	741.4	714.5	688.8	677.4	663.9	653.0	642.7	638.2	631.2
42.5°	763.9	735.0	710.1	681.2	660.1	644.5	632.1	620.2	612.5	605.9	601.9
45°	710.6	685.0	660.6	631.9	612.0	598.5	584.4	573.5	566.5	562.0	554.9
47.5°	659.0	633.4	608.6	583.5	564.3	548.9	534.8	527.3	517.9	512.4	507.6
50°	621.6	598.5	572.3	549.2	529.9	514.5	503.0	493.4	485.1	478.0	474.8
52.5°	587.3	562.6	540.0	518.4	498.1	480.7	470.2	460.1	453.8	445.7	442.1
55°	530.6	506.9	487.6	466.5	446.6	431.9	419.1	410.1	403.7	394.8	389.6
57.5°	477.4	456.2	433.2	414.8	394.4	381.9	371.3	359.1	351.3	344.2	339.2
60°	441.5	417.2	397.3	380.0	362.1	346.0	336.4	326.8	318.5	311.4	307.0
62.5°	404.1	382.8	363.9	345.1	328.7	314.8	303.6	295.5	288.2	283.7	279.2
65°	346.7	330.0	310.8	295.4	280.1	269.8	260.8	253.7	248.7	245.4	241.6
67.5°	293.8	277.7	260.9	245.8	235.5	227.7	221.8	215.8	213.3	209.1	206.6
70°	259.5	242.9	228.1	216.6	206.4	200.6	196.7	192.2	189.6	184.6	182.0
72.5°	222.1	210.0	199.4	190.0	181.7	176.5	171.6	166.1	162.0	156.4	153.8
75°	175.0	164.0	155.7	149.3	144.1	137.1	130.1	124.3	122.4	120.5	119.8
77.5°	129.6	122.6	116.6	111.2	104.8	99.7	98.2	96.9	96.5	95.5	95.5
80°	101.9	95.5	91.0	84.5	80.7	80.7	80.7	79.5	80.1	80.1	80.1
82.5°	75.7	69.9	67.4	65.1	64.3	64.8	64.8	65.1	64.7	65.7	65.2
85°	39.1	39.7	41.0	40.4	41.0	41.0	42.3	41.7	42.3	41.0	42.3
87.5°	16.8	18.9	20.1	21.4	22.6	22.8	23.6	23.8	24.5	24.7	24.9
90°	12.1	15.3	18.8	22.4	25.9	29.5	30.6	31.7	32.8	33.9	34.7
92.5°	37.2	39.1	41.2	43.1	45.2	47.2	48.1	48.9	49.8	50.7	51.0
95°	80.2	82.3	84.4	86.6	88.8	91.0	92.0	93.2	94.2	95.3	95.9
97.5°	134.5	136.0	137.6	139.2	140.8	142.4	143.7	144.9	146.1	147.4	148.0
100°	173.7	175.3	176.6	178.0	179.4	180.8	181.6	182.4	183.2	184.0	184.7
102.5°	215.4	216.8	218.6	220.4	222.2	224.0	224.9	225.7	226.5	227.3	227.6
105°	278.8	280.3	282.7	285.2	287.7	290.2	290.2	290.2	290.2	290.2	290.4
107.5°	353.7	354.3	355.3	356.3	357.3	358.2	359.1	360.0	360.9	361.7	362.0
110°	401.8	402.3	402.8	403.4	403.9	404.5	405.6	406.7	407.7	408.9	409.1



TEST NUMBER: P332487-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	450.0	450.3	450.4	450.5	450.6	450.7	452.0	453.3	454.6	455.9	456.6
115°	525.8	525.9	525.4	524.8	524.3	523.7	524.0	524.3	524.6	524.8	524.8
117.5°	598.9	598.8	598.2	597.5	596.7	596.1	596.0	595.9	595.9	595.8	595.4
120°	649.5	649.7	648.3	646.9	645.6	644.2	643.9	643.7	643.4	643.1	642.7
122.5°	696.0	696.3	695.5	694.8	694.1	693.4	692.7	691.9	691.3	690.6	689.8
125°	768.0	768.1	767.6	767.0	766.5	766.0	764.8	763.8	762.6	761.6	760.4
127.5°	839.6	840.2	839.5	838.9	838.4	837.7	836.2	834.7	833.2	831.6	830.2
130°	886.6	887.2	886.4	885.6	884.8	883.9	882.9	881.7	880.7	879.6	878.1
132.5°	931.8	932.6	932.0	931.4	930.7	930.2	928.9	927.6	926.3	925.0	923.6
135°	998.7	999.4	999.1	998.8	998.6	998.3	997.2	996.1	995.0	993.9	993.1
137.5°	1061.5	1062.6	1063.3	1064.0	1064.7	1065.4	1064.3	1063.2	1062.0	1060.9	1059.7
140°	1105.8	1106.6	1106.9	1107.2	1107.4	1107.7	1107.4	1107.2	1106.9	1106.6	1105.5
142.5°	1146.1	1147.0	1147.5	1148.0	1148.5	1149.0	1148.8	1148.5	1148.2	1147.9	1147.0
145°	1205.8	1206.5	1207.3	1208.1	1208.9	1209.7	1209.5	1209.2	1208.9	1208.7	1207.9
147.5°	1262.7	1263.5	1264.3	1265.0	1265.8	1266.6	1266.6	1266.6	1266.6	1266.6	1265.8
150°	1299.3	1299.8	1300.3	1300.9	1301.4	1302.0	1302.0	1302.0	1302.0	1302.0	1301.1
152.5°	1331.5	1332.1	1332.4	1332.8	1333.1	1333.4	1333.9	1334.3	1334.7	1335.2	1334.7
155°	1378.2	1378.3	1378.6	1378.8	1379.2	1379.4	1380.5	1381.6	1382.7	1383.8	1383.4
157.5°	1419.2	1419.1	1419.4	1419.5	1419.8	1420.0	1421.1	1422.3	1423.4	1424.6	1424.4
160°	1444.9	1444.5	1444.5	1444.5	1444.5	1444.5	1445.9	1447.3	1448.7	1450.0	1450.2
162.5°	1467.6	1467.3	1467.5	1467.8	1467.9	1468.2	1469.6	1470.9	1472.3	1473.7	1473.5
165°	1497.9	1497.5	1497.5	1497.5	1497.5	1497.5	1499.1	1500.7	1502.4	1504.0	1503.9
167.5°	1521.1	1520.7	1520.9	1521.1	1521.3	1521.5	1523.2	1524.9	1526.6	1528.3	1528.3
170°	1534.9	1534.3	1534.3	1534.3	1534.3	1534.3	1536.3	1538.1	1540.1	1542.0	1542.0
172.5°	1545.7	1545.2	1545.2	1545.2	1545.2	1545.2	1546.9	1548.5	1550.2	1551.9	1551.8
175°	1557.0	1556.5	1556.5	1556.5	1556.5	1556.5	1558.1	1559.7	1561.4	1563.0	1562.8
177.5°	1562.5	1562.1	1562.1	1562.1	1562.1	1562.1	1563.4	1564.7	1566.0	1567.3	1567.2
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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CATALOG NUMBER: S123RDIW-S1165D1535U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1426.2	1425.6	1426.2	1424.1	1426.2	1425.6	1426.2	1432.3	1432.3	1432.8	1433.4
5°	1327.1	1326.5	1324.5	1318.7	1324.5	1326.5	1327.1	1329.0	1334.2	1343.1	1340.5
7.5°	1240.6	1239.7	1234.0	1234.2	1234.0	1239.7	1240.6	1245.6	1251.3	1256.9	1263.4
10°	1189.4	1189.9	1182.3	1177.8	1182.3	1189.9	1189.4	1193.8	1202.2	1206.6	1211.1
12.5°	1139.6	1136.7	1130.5	1125.5	1130.5	1136.7	1139.6	1143.0	1154.5	1159.4	1168.1
15°	1074.0	1067.6	1052.2	1053.4	1052.2	1067.6	1074.0	1071.4	1083.0	1089.3	1091.9
17.5°	996.7	992.0	991.7	982.8	991.7	992.0	996.7	1001.8	1011.8	1018.7	1037.1
20°	951.6	948.4	949.7	940.7	949.7	948.4	951.6	961.8	968.2	977.2	992.0
22.5°	916.2	913.0	907.6	904.8	907.6	913.0	916.2	923.4	930.3	942.9	951.0
25°	864.5	859.3	854.2	857.4	854.2	859.3	864.5	868.3	881.1	886.9	898.4
27.5°	812.7	808.9	803.7	803.1	803.7	808.9	812.7	816.4	823.5	833.2	847.0
30°	779.8	776.0	773.5	770.2	773.5	776.0	779.8	783.1	790.1	800.4	810.7
32.5°	746.6	745.8	741.2	740.5	741.2	745.8	746.6	751.8	758.8	768.6	777.3
35°	703.0	699.1	697.8	698.5	697.8	699.1	703.0	705.6	711.9	720.9	729.2
37.5°	661.5	656.4	654.1	651.8	654.1	656.4	661.5	661.9	668.5	674.5	685.7
40°	631.9	626.7	625.4	624.1	625.4	626.7	631.9	631.2	638.2	642.7	653.0
42.5°	598.5	596.5	595.7	593.4	595.7	596.5	598.5	601.9	605.9	612.5	620.2
45°	553.0	552.4	548.5	549.8	548.5	552.4	553.0	554.9	562.0	566.5	573.5
47.5°	505.1	502.2	499.5	501.3	499.5	502.2	505.1	507.6	512.4	517.9	527.3
50°	472.3	471.0	465.2	466.5	465.2	471.0	472.3	474.8	478.0	485.1	493.4
52.5°	439.4	434.6	432.4	431.6	432.4	434.6	439.4	442.1	445.7	453.8	460.1
55°	385.1	379.4	376.7	375.5	376.7	379.4	385.1	389.6	394.8	403.7	410.1
57.5°	331.8	330.3	328.2	329.6	328.2	330.3	331.8	339.2	344.2	351.3	359.1
60°	300.5	300.5	300.5	299.9	300.5	300.5	300.5	307.0	311.4	318.5	326.8
62.5°	276.5	274.9	274.4	275.3	274.4	274.9	276.5	279.2	283.7	288.2	295.5
65°	239.7	239.0	236.4	235.8	236.4	239.0	239.7	241.6	245.4	248.7	253.7
67.5°	205.0	202.6	201.9	201.0	201.9	202.6	205.0	206.6	209.1	213.3	215.8
70°	178.8	177.5	173.7	174.3	173.7	177.5	178.8	182.0	184.6	189.6	192.2
72.5°	150.6	149.3	148.5	147.7	148.5	149.3	150.6	153.8	156.4	162.0	166.1
75°	119.2	118.5	117.9	120.5	117.9	118.5	119.2	119.8	120.5	122.4	124.3
77.5°	95.5	95.5	95.9	94.8	95.9	95.5	95.5	95.5	95.5	96.5	96.9
80°	80.1	80.1	79.5	79.5	79.5	80.1	80.1	80.1	80.1	80.1	79.5
82.5°	64.2	64.7	65.1	64.1	65.1	64.7	64.2	65.2	65.7	64.7	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.0	42.3	41.7
87.5°	26.0	25.1	25.2	25.8	25.2	25.1	26.0	24.9	24.7	24.5	23.8
90°	35.2	35.8	36.4	36.9	36.4	35.8	35.2	34.7	33.9	32.8	31.7
92.5°	50.6	50.3	50.0	49.7	50.0	50.3	50.6	51.0	50.7	49.8	48.9
95°	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.3	94.2	93.2
97.5°	147.9	147.7	147.7	147.6	147.7	147.7	147.9	148.0	147.4	146.1	144.9
100°	185.2	185.8	186.3	186.9	186.3	185.8	185.2	184.7	184.0	183.2	182.4
102.5°	227.6	227.4	227.3	227.2	227.3	227.4	227.6	227.6	227.3	226.5	225.7
105°	291.0	291.6	292.0	292.6	292.0	291.6	291.0	290.4	290.2	290.2	290.2
107.5°	361.7	361.3	361.0	360.7	361.0	361.3	361.7	362.0	361.7	360.9	360.0
110°	408.5	408.1	407.5	406.9	407.5	408.1	408.5	409.1	408.9	407.7	406.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	456.5	456.3	456.2	456.1	456.2	456.3	456.5	456.6	455.9	454.6	453.3
115°	524.6	524.3	524.0	523.7	524.0	524.3	524.6	524.8	524.8	524.6	524.3
117.5°	594.6	593.9	593.1	592.3	593.1	593.9	594.6	595.4	595.8	595.9	595.9
120°	642.2	641.6	641.1	640.5	641.1	641.6	642.2	642.7	643.1	643.4	643.7
122.5°	689.1	688.3	687.5	686.7	687.5	688.3	689.1	689.8	690.6	691.3	691.9
125°	759.4	758.3	757.2	756.1	757.2	758.3	759.4	760.4	761.6	762.6	763.8
127.5°	829.0	827.7	826.5	825.2	826.5	827.7	829.0	830.2	831.6	833.2	834.7
130°	876.2	874.2	872.4	870.4	872.4	874.2	876.2	878.1	879.6	880.7	881.7
132.5°	922.1	920.6	919.1	917.6	919.1	920.6	922.1	923.6	925.0	926.3	927.6
135°	992.5	992.0	991.5	990.9	991.5	992.0	992.5	993.1	993.9	995.0	996.1
137.5°	1058.7	1057.7	1056.6	1055.6	1056.6	1057.7	1058.7	1059.7	1060.9	1062.0	1063.2
140°	1103.6	1101.7	1099.8	1097.9	1099.8	1101.7	1103.6	1105.5	1106.6	1106.9	1107.2
142.5°	1145.6	1144.1	1142.6	1141.2	1142.6	1144.1	1145.6	1147.0	1147.9	1148.2	1148.5
145°	1206.9	1205.8	1204.7	1203.6	1204.7	1205.8	1206.9	1207.9	1208.7	1208.9	1209.2
147.5°	1264.1	1262.5	1260.8	1259.1	1260.8	1262.5	1264.1	1265.8	1266.6	1266.6	1266.6
150°	1299.5	1297.9	1296.2	1294.6	1296.2	1297.9	1299.5	1301.1	1302.0	1302.0	1302.0
152.5°	1333.3	1331.9	1330.4	1329.0	1330.4	1331.9	1333.3	1334.7	1335.2	1334.7	1334.3
155°	1381.4	1379.6	1377.6	1375.7	1377.6	1379.6	1381.4	1383.4	1383.8	1382.7	1381.6
157.5°	1422.9	1421.3	1419.8	1418.3	1419.8	1421.3	1422.9	1424.4	1424.6	1423.4	1422.3
160°	1449.1	1448.0	1446.9	1445.8	1446.9	1448.0	1449.1	1450.2	1450.0	1448.7	1447.3
162.5°	1471.7	1470.0	1468.2	1466.5	1468.2	1470.0	1471.7	1473.5	1473.7	1472.3	1470.9
165°	1501.9	1500.1	1498.1	1496.2	1498.1	1500.1	1501.9	1503.9	1504.0	1502.4	1500.7
167.5°	1526.6	1524.9	1523.2	1521.5	1523.2	1524.9	1526.6	1528.3	1528.3	1526.6	1524.9
170°	1540.1	1538.1	1536.3	1534.3	1536.3	1538.1	1540.1	1542.0	1542.0	1540.1	1538.1
172.5°	1549.9	1548.0	1546.1	1544.2	1546.1	1548.0	1549.9	1551.8	1551.9	1550.2	1548.5
175°	1561.0	1559.0	1557.1	1555.3	1557.1	1559.0	1561.0	1562.8	1563.0	1561.4	1559.7
177.5°	1565.7	1564.2	1562.7	1561.1	1562.7	1564.2	1565.7	1567.2	1567.3	1566.0	1564.7
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1428.7	1435.9	1443.1	1449.8	1460.0	1464.6	1471.3	1473.8	1481.6	1492.8	1502.0
5°	1341.8	1352.1	1365.5	1376.5	1393.8	1407.2	1422.0	1436.1	1452.7	1476.4	1497.5
7.5°	1268.1	1278.3	1294.5	1314.7	1333.7	1352.8	1373.0	1392.2	1416.0	1450.0	1483.7
10°	1219.4	1231.6	1250.8	1272.6	1296.3	1314.9	1338.6	1363.0	1392.4	1431.6	1471.9
12.5°	1177.4	1186.5	1208.8	1229.6	1256.4	1280.1	1303.3	1331.7	1365.3	1407.0	1455.5
15°	1110.5	1123.3	1145.1	1168.2	1196.4	1221.4	1251.5	1286.1	1318.7	1370.0	1429.0
17.5°	1043.3	1062.8	1085.5	1111.5	1132.5	1166.9	1199.5	1235.1	1275.3	1329.7	1394.4
20°	1000.3	1015.7	1036.8	1074.6	1102.2	1128.5	1158.5	1202.8	1239.9	1301.5	1368.7
22.5°	963.9	975.2	998.9	1030.0	1062.2	1092.6	1123.2	1165.4	1211.2	1269.7	1342.6
25°	910.0	927.9	945.8	968.2	1002.8	1039.3	1072.7	1108.6	1157.3	1219.4	1298.3
27.5°	857.3	873.5	891.2	918.8	945.0	979.2	1014.0	1055.2	1107.4	1173.2	1253.1
30°	823.5	835.6	852.2	887.5	911.2	940.7	981.7	1018.2	1066.9	1136.8	1221.4
32.5°	788.6	804.3	822.6	849.5	878.9	906.9	944.3	983.9	1033.6	1102.4	1189.0
35°	738.8	757.4	776.0	795.9	825.3	854.2	885.6	929.2	979.7	1046.4	1131.6
37.5°	693.1	708.1	723.2	747.8	775.8	803.2	832.5	875.5	923.2	995.1	1073.2
40°	663.9	677.4	688.8	714.5	741.4	770.9	799.7	837.6	888.8	956.1	1031.7
42.5°	632.1	644.5	660.1	681.2	710.1	735.0	763.9	799.6	847.7	916.1	982.4
45°	584.4	598.5	612.0	631.9	660.6	685.0	710.6	744.6	793.9	850.4	909.3
47.5°	534.8	548.9	564.3	583.5	608.6	633.4	659.0	689.1	734.1	789.5	829.2
50°	503.0	514.5	529.9	549.2	572.3	598.5	621.6	654.3	697.2	740.8	775.3
52.5°	470.2	480.7	498.1	518.4	540.0	562.6	587.3	615.3	654.1	695.1	722.6
55°	419.1	431.9	446.6	466.5	487.6	506.9	530.6	559.5	590.2	620.9	639.5
57.5°	371.3	381.9	394.4	414.8	433.2	456.2	477.4	499.9	528.3	551.5	563.6
60°	336.4	346.0	362.1	380.0	397.3	417.2	441.5	463.9	485.8	504.3	513.9
62.5°	303.6	314.8	328.7	345.1	363.9	382.8	404.1	422.9	442.1	458.2	464.7
65°	260.8	269.8	280.1	295.4	310.8	330.0	346.7	365.9	380.0	389.0	394.8
67.5°	221.8	227.7	235.5	245.8	260.9	277.7	293.8	308.8	320.7	326.8	331.9
70°	196.7	200.6	206.4	216.6	228.1	242.9	259.5	270.4	280.7	285.8	290.9
72.5°	171.6	176.5	181.7	190.0	199.4	210.0	222.1	235.5	241.2	247.4	250.5
75°	130.1	137.1	144.1	149.3	155.7	164.0	175.0	183.3	186.5	191.6	192.2
77.5°	98.2	99.7	104.8	111.2	116.6	122.6	129.6	137.0	138.5	141.2	142.9
80°	80.7	80.7	80.7	84.5	91.0	95.5	101.9	105.7	108.3	108.9	109.6
82.5°	64.8	64.8	64.3	65.1	67.4	69.9	75.7	80.1	82.2	81.8	80.4
85°	42.3	41.0	41.0	40.4	41.0	39.7	39.1	41.7	45.5	45.5	44.2
87.5°	23.6	22.8	22.6	21.4	20.1	18.9	16.8	16.7	16.2	17.7	16.6
90°	30.6	29.5	25.9	22.4	18.8	15.3	12.1	9.5	6.7	4.0	1.2
92.5°	48.1	47.2	45.2	43.1	41.2	39.1	37.2	35.3	33.4	31.6	29.8
95°	92.0	91.0	88.8	86.6	84.4	82.3	80.2	78.3	76.4	74.4	72.6
97.5°	143.7	142.4	140.8	139.2	137.6	136.0	134.5	133.1	131.7	130.3	128.8
100°	181.6	180.8	179.4	178.0	176.6	175.3	173.7	172.1	170.5	168.8	167.2
102.5°	224.9	224.0	222.2	220.4	218.6	216.8	215.4	214.4	213.4	212.5	211.5
105°	290.2	290.2	287.7	285.2	282.7	280.3	278.8	278.3	277.7	277.2	276.6
107.5°	359.1	358.2	357.3	356.3	355.3	354.3	353.7	353.4	353.0	352.7	352.4
110°	405.6	404.5	403.9	403.4	402.8	402.3	401.8	401.2	400.6	400.1	399.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	452.0	450.7	450.6	450.5	450.4	450.3	450.0	449.7	449.4	449.1	448.7
115°	524.0	523.7	524.3	524.8	525.4	525.9	525.8	525.0	524.2	523.3	522.5
117.5°	596.0	596.1	596.7	597.5	598.2	598.8	598.9	598.4	597.9	597.3	596.8
120°	643.9	644.2	645.6	646.9	648.3	649.7	649.5	647.9	646.3	644.7	643.0
122.5°	692.7	693.4	694.1	694.8	695.5	696.3	696.0	694.8	693.6	692.4	691.2
125°	764.8	766.0	766.5	767.0	767.6	768.1	768.0	767.2	766.4	765.5	764.7
127.5°	836.2	837.7	838.4	838.9	839.5	840.2	839.6	837.8	836.1	834.3	832.6
130°	882.9	883.9	884.8	885.6	886.4	887.2	886.6	884.4	882.2	880.0	877.8
132.5°	928.9	930.2	930.7	931.4	932.0	932.6	931.8	929.6	927.4	925.2	923.1
135°	997.2	998.3	998.6	998.8	999.1	999.4	998.7	997.0	995.4	993.8	992.1
137.5°	1064.3	1065.4	1064.7	1064.0	1063.3	1062.6	1061.5	1060.2	1058.8	1057.4	1056.1
140°	1107.4	1107.7	1107.4	1107.2	1106.9	1106.6	1105.8	1104.4	1103.1	1101.7	1100.3
142.5°	1148.8	1149.0	1148.5	1148.0	1147.5	1147.0	1146.1	1144.8	1143.4	1142.0	1140.7
145°	1209.5	1209.7	1208.9	1208.1	1207.3	1206.5	1205.8	1205.3	1204.7	1204.2	1203.6
147.5°	1266.6	1266.6	1265.8	1265.0	1264.3	1263.5	1262.7	1261.7	1260.6	1259.6	1258.7
150°	1302.0	1302.0	1301.4	1300.9	1300.3	1299.8	1299.3	1298.7	1298.1	1297.6	1297.1
152.5°	1333.9	1333.4	1333.1	1332.8	1332.4	1332.1	1331.5	1330.8	1330.1	1329.3	1328.5
155°	1380.5	1379.4	1379.2	1378.8	1378.6	1378.3	1378.2	1378.2	1378.2	1378.2	1378.2
157.5°	1421.1	1420.0	1419.8	1419.5	1419.4	1419.1	1419.2	1419.5	1419.8	1420.2	1420.5
160°	1445.9	1444.5	1444.5	1444.5	1444.5	1444.5	1444.9	1445.4	1445.9	1446.5	1447.1
162.5°	1469.6	1468.2	1467.9	1467.8	1467.5	1467.3	1467.6	1468.4	1469.1	1469.9	1470.6
165°	1499.1	1497.5	1497.5	1497.5	1497.5	1497.5	1497.9	1498.7	1499.5	1500.3	1501.1
167.5°	1523.2	1521.5	1521.3	1521.1	1520.9	1520.7	1521.1	1522.2	1523.3	1524.4	1525.5
170°	1536.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.9	1535.9	1537.1	1538.1	1539.2
172.5°	1546.9	1545.2	1545.2	1545.2	1545.2	1545.2	1545.7	1546.8	1547.8	1549.0	1550.0
175°	1558.1	1556.5	1556.5	1556.5	1556.5	1556.5	1557.0	1558.1	1559.2	1560.3	1561.4
177.5°	1563.4	1562.1	1562.1	1562.1	1562.1	1562.1	1562.5	1563.4	1564.3	1565.2	1566.0
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1505.1	1510.7	1517.9	1528.7	1536.9	1544.1	1545.6	1547.7	1552.8	1561.5	1568.1
5°	1514.8	1529.6	1553.3	1576.4	1601.3	1621.9	1641.1	1654.6	1667.4	1694.3	1716.0
7.5°	1511.8	1544.6	1581.8	1623.2	1665.1	1705.7	1743.4	1777.0	1810.6	1849.8	1894.6
10°	1509.7	1548.2	1598.1	1651.3	1709.7	1766.7	1821.8	1864.8	1914.7	1959.6	2016.6
12.5°	1500.0	1555.3	1615.1	1683.1	1754.8	1820.5	1893.0	1952.4	2009.5	2074.4	2140.6
15°	1487.3	1554.6	1630.2	1720.5	1829.5	1908.9	1983.3	2086.4	2157.0	2227.4	2322.3
17.5°	1464.1	1546.2	1640.7	1758.1	1848.9	1955.7	2067.6	2149.1	2244.1	2343.4	2429.3
20°	1445.6	1541.2	1646.8	1762.2	1878.2	1994.1	2102.5	2199.8	2297.9	2412.6	2483.1
22.5°	1427.2	1521.7	1631.5	1754.0	1878.7	2000.8	2123.4	2237.8	2348.1	2463.9	2553.8
25°	1388.0	1500.2	1619.3	1744.3	1867.3	2001.9	2148.0	2275.5	2412.0	2531.2	2616.4
27.5°	1348.3	1451.0	1569.7	1696.5	1833.2	1992.3	2164.1	2309.1	2445.8	2531.2	2557.9
30°	1312.4	1421.3	1530.2	1659.1	1807.0	1984.5	2167.1	2333.1	2445.3	2482.4	2454.9
32.5°	1275.9	1374.7	1482.5	1614.5	1771.6	1965.6	2171.3	2318.8	2386.3	2357.9	2245.7
35°	1211.8	1300.8	1405.2	1537.2	1718.0	1955.1	2154.3	2254.3	2237.7	2077.5	1866.0
37.5°	1143.0	1215.6	1312.4	1450.4	1662.4	1913.4	2081.5	2096.3	1952.2	1706.2	1461.9
40°	1088.8	1154.1	1253.4	1397.6	1619.3	1872.4	2008.2	1948.6	1725.0	1451.4	1247.7
42.5°	1035.9	1091.0	1186.7	1342.2	1578.3	1816.6	1899.1	1769.3	1511.2	1252.5	1067.2
45°	946.5	998.3	1094.5	1254.0	1494.4	1709.7	1698.8	1473.2	1215.0	1006.7	852.9
47.5°	861.6	907.0	997.2	1160.1	1395.8	1549.5	1447.6	1207.5	988.5	821.4	711.7
50°	801.6	846.5	936.2	1097.1	1316.9	1429.0	1283.5	1052.2	851.7	713.2	626.1
52.5°	744.2	788.1	870.1	1026.8	1221.5	1288.5	1132.3	917.9	750.6	631.2	556.4
55°	663.9	697.2	770.9	920.8	1066.3	1081.7	923.4	744.0	606.2	522.9	471.7
57.5°	582.0	610.7	683.5	802.9	904.9	897.0	746.9	591.7	499.0	437.0	399.8
60°	528.6	556.8	620.9	723.5	800.4	773.5	635.7	510.7	431.3	385.8	356.3
62.5°	478.9	501.0	560.9	635.8	691.1	660.6	543.4	439.9	376.9	338.6	315.3
65°	406.9	424.9	472.9	512.0	542.7	513.3	415.9	344.1	298.6	271.7	255.7
67.5°	338.4	349.8	380.3	394.4	416.0	383.7	312.7	264.6	238.8	216.1	205.0
70°	295.4	303.7	319.8	331.3	337.0	303.7	251.2	216.0	194.1	178.1	171.1
72.5°	252.3	259.7	262.9	272.3	269.4	238.1	201.9	173.9	158.2	147.4	138.3
75°	192.9	196.1	192.9	189.1	180.7	158.9	134.0	119.8	108.3	103.1	100.0
77.5°	140.6	139.6	135.2	129.2	115.0	101.3	87.8	83.1	78.0	75.3	74.2
80°	108.3	105.7	101.9	92.3	80.1	70.5	67.3	64.1	62.1	58.9	58.3
82.5°	80.6	79.1	72.6	64.6	56.0	51.5	48.8	47.7	45.7	44.1	43.9
85°	43.0	41.0	34.0	29.5	28.2	26.9	26.3	26.3	23.7	23.1	23.1
87.5°	14.6	12.1	12.1	11.2	11.7	11.5	12.7	12.4	12.6	13.3	12.5
90°	4.0	6.7	9.5	12.1	15.3	18.8	22.4	25.9	29.5	30.6	31.7
92.5°	31.6	33.4	35.3	37.2	39.1	41.2	43.1	45.2	47.2	48.1	48.9
95°	74.4	76.4	78.3	80.2	82.3	84.4	86.6	88.8	91.0	92.0	93.2
97.5°	130.3	131.7	133.1	134.5	136.0	137.6	139.2	140.8	142.4	143.7	144.9
100°	168.8	170.5	172.1	173.7	175.3	176.6	178.0	179.4	180.8	181.6	182.4
102.5°	212.5	213.4	214.4	215.4	216.8	218.6	220.4	222.2	224.0	224.9	225.7
105°	277.2	277.7	278.3	278.8	280.3	282.7	285.2	287.7	290.2	290.2	290.2
107.5°	352.7	353.0	353.4	353.7	354.3	355.3	356.3	357.3	358.2	359.1	360.0
110°	400.1	400.6	401.2	401.8	402.3	402.8	403.4	403.9	404.5	405.6	406.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	449.1	449.4	449.7	450.0	450.3	450.4	450.5	450.6	450.7	452.0	453.3
115°	523.3	524.2	525.0	525.8	525.9	525.4	524.8	524.3	523.7	524.0	524.3
117.5°	597.3	597.9	598.4	598.9	598.8	598.2	597.5	596.7	596.1	596.0	595.9
120°	644.7	646.3	647.9	649.5	649.7	648.3	646.9	645.6	644.2	643.9	643.7
122.5°	692.4	693.6	694.8	696.0	696.3	695.5	694.8	694.1	693.4	692.7	691.9
125°	765.5	766.4	767.2	768.0	768.1	767.6	767.0	766.5	766.0	764.8	763.8
127.5°	834.3	836.1	837.8	839.6	840.2	839.5	838.9	838.4	837.7	836.2	834.7
130°	880.0	882.2	884.4	886.6	887.2	886.4	885.6	884.8	883.9	882.9	881.7
132.5°	925.2	927.4	929.6	931.8	932.6	932.0	931.4	930.7	930.2	928.9	927.6
135°	993.8	995.4	997.0	998.7	999.4	999.1	998.8	998.6	998.3	997.2	996.1
137.5°	1057.4	1058.8	1060.2	1061.5	1062.6	1063.3	1064.0	1064.7	1065.4	1064.3	1063.2
140°	1101.7	1103.1	1104.4	1105.8	1106.6	1106.9	1107.2	1107.4	1107.7	1107.4	1107.2
142.5°	1142.0	1143.4	1144.8	1146.1	1147.0	1147.5	1148.0	1148.5	1149.0	1148.8	1148.5
145°	1204.2	1204.7	1205.3	1205.8	1206.5	1207.3	1208.1	1208.9	1209.7	1209.5	1209.2
147.5°	1259.6	1260.6	1261.7	1262.7	1263.5	1264.3	1265.0	1265.8	1266.6	1266.6	1266.6
150°	1297.6	1298.1	1298.7	1299.3	1299.8	1300.3	1300.9	1301.4	1302.0	1302.0	1302.0
152.5°	1329.3	1330.1	1330.8	1331.5	1332.1	1332.4	1332.8	1333.1	1333.4	1333.9	1334.3
155°	1378.2	1378.2	1378.2	1378.2	1378.3	1378.6	1378.8	1379.2	1379.4	1380.5	1381.6
157.5°	1420.2	1419.8	1419.5	1419.2	1419.1	1419.4	1419.5	1419.8	1420.0	1421.1	1422.3
160°	1446.5	1445.9	1445.4	1444.9	1444.5	1444.5	1444.5	1444.5	1444.5	1445.9	1447.3
162.5°	1469.9	1469.1	1468.4	1467.6	1467.3	1467.5	1467.8	1467.9	1468.2	1469.6	1470.9
165°	1500.3	1499.5	1498.7	1497.9	1497.5	1497.5	1497.5	1497.5	1497.5	1499.1	1500.7
167.5°	1524.4	1523.3	1522.2	1521.1	1520.7	1520.9	1521.1	1521.3	1521.5	1523.2	1524.9
170°	1538.1	1537.1	1535.9	1534.9	1534.3	1534.3	1534.3	1534.3	1534.3	1536.3	1538.1
172.5°	1549.0	1547.8	1546.8	1545.7	1545.2	1545.2	1545.2	1545.2	1545.2	1546.9	1548.5
175°	1560.3	1559.2	1558.1	1557.0	1556.5	1556.5	1556.5	1556.5	1556.5	1558.1	1559.7
177.5°	1565.2	1564.3	1563.4	1562.5	1562.1	1562.1	1562.1	1562.1	1562.1	1563.4	1564.7
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1578.9	1578.9	1580.9	1588.7	1589.7	1596.4	1594.3
5°	1735.3	1747.4	1751.9	1771.2	1782.7	1787.9	1777.6
7.5°	1926.5	1960.9	1977.1	1997.2	2015.1	2020.5	2006.5
10°	2066.0	2101.8	2131.9	2150.5	2167.8	2179.4	2194.1
12.5°	2200.7	2244.8	2273.5	2299.7	2317.5	2332.2	2334.5
15°	2347.2	2413.9	2464.5	2501.7	2520.3	2529.9	2526.0
17.5°	2495.0	2556.8	2592.8	2630.7	2656.5	2657.8	2658.5
20°	2578.5	2638.8	2680.5	2708.7	2737.5	2736.2	2742.6
22.5°	2634.5	2681.8	2713.8	2734.3	2744.1	2739.3	2740.5
25°	2660.6	2674.7	2669.0	2636.3	2628.0	2597.8	2602.9
27.5°	2525.8	2459.1	2390.2	2301.5	2231.6	2175.6	2178.5
30°	2342.8	2224.9	2090.3	1977.5	1876.2	1848.0	1787.9
32.5°	2086.9	1910.1	1752.5	1647.4	1560.5	1536.9	1484.3
35°	1653.3	1481.6	1319.4	1222.0	1183.6	1129.8	1129.1
37.5°	1285.1	1133.8	1048.1	975.0	936.7	904.2	901.0
40°	1081.0	963.1	898.4	845.9	808.0	783.7	778.0
42.5°	938.5	843.2	782.5	750.0	720.9	708.3	699.0
45°	766.4	702.3	660.0	630.6	617.1	607.5	602.3
47.5°	641.1	598.1	569.3	549.7	538.7	528.6	531.3
50°	572.9	537.6	516.5	497.9	489.6	482.5	483.1
52.5°	518.0	486.4	469.3	455.8	445.5	440.5	438.1
55°	439.6	419.7	402.4	392.8	387.0	380.0	378.1
57.5°	375.0	359.6	345.5	334.6	333.2	326.4	327.3
60°	331.9	319.1	307.6	301.8	297.3	291.6	293.5
62.5°	296.5	285.8	275.3	270.5	266.0	261.8	262.7
65°	242.9	232.6	226.2	223.6	221.7	219.8	217.8
67.5°	193.6	187.3	183.3	177.7	173.8	173.2	171.2
70°	162.7	154.4	147.4	140.3	138.4	137.8	138.4
72.5°	130.4	125.2	123.3	119.8	119.4	117.8	119.0
75°	98.1	96.1	94.8	92.3	92.3	92.3	92.3
77.5°	72.3	71.1	70.4	69.9	69.2	68.3	68.2
80°	56.4	55.8	54.5	54.5	53.8	54.5	53.8
82.5°	42.6	42.4	41.2	41.2	40.5	40.1	40.5
85°	21.8	21.1	22.4	21.1	21.8	20.5	21.8
87.5°	12.7	13.0	12.6	12.7	12.3	13.5	12.5
90°	32.8	33.9	34.7	35.2	35.8	36.4	36.9
92.5°	49.8	50.7	51.0	50.6	50.3	50.0	49.7
95°	94.2	95.3	95.9	95.9	95.9	95.9	95.9
97.5°	146.1	147.4	148.0	147.9	147.7	147.7	147.6
100°	183.2	184.0	184.7	185.2	185.8	186.3	186.9
102.5°	226.5	227.3	227.6	227.6	227.4	227.3	227.2
105°	290.2	290.2	290.4	291.0	291.6	292.0	292.6
107.5°	360.9	361.7	362.0	361.7	361.3	361.0	360.7
110°	407.7	408.9	409.1	408.5	408.1	407.5	406.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	454.6	455.9	456.6	456.5	456.3	456.2	456.1
115°	524.6	524.8	524.8	524.6	524.3	524.0	523.7
117.5°	595.9	595.8	595.4	594.6	593.9	593.1	592.3
120°	643.4	643.1	642.7	642.2	641.6	641.1	640.5
122.5°	691.3	690.6	689.8	689.1	688.3	687.5	686.7
125°	762.6	761.6	760.4	759.4	758.3	757.2	756.1
127.5°	833.2	831.6	830.2	829.0	827.7	826.5	825.2
130°	880.7	879.6	878.1	876.2	874.2	872.4	870.4
132.5°	926.3	925.0	923.6	922.1	920.6	919.1	917.6
135°	995.0	993.9	993.1	992.5	992.0	991.5	990.9
137.5°	1062.0	1060.9	1059.7	1058.7	1057.7	1056.6	1055.6
140°	1106.9	1106.6	1105.5	1103.6	1101.7	1099.8	1097.9
142.5°	1148.2	1147.9	1147.0	1145.6	1144.1	1142.6	1141.2
145°	1208.9	1208.7	1207.9	1206.9	1205.8	1204.7	1203.6
147.5°	1266.6	1266.6	1265.8	1264.1	1262.5	1260.8	1259.1
150°	1302.0	1302.0	1301.1	1299.5	1297.9	1296.2	1294.6
152.5°	1334.7	1335.2	1334.7	1333.3	1331.9	1330.4	1329.0
155°	1382.7	1383.8	1383.4	1381.4	1379.6	1377.6	1375.7
157.5°	1423.4	1424.6	1424.4	1422.9	1421.3	1419.8	1418.3
160°	1448.7	1450.0	1450.2	1449.1	1448.0	1446.9	1445.8
162.5°	1472.3	1473.7	1473.5	1471.7	1470.0	1468.2	1466.5
165°	1502.4	1504.0	1503.9	1501.9	1500.1	1498.1	1496.2
167.5°	1526.6	1528.3	1528.3	1526.6	1524.9	1523.2	1521.5
170°	1540.1	1542.0	1542.0	1540.1	1538.1	1536.3	1534.3
172.5°	1550.2	1551.9	1551.8	1549.9	1548.0	1546.1	1544.2
175°	1561.4	1563.0	1562.8	1561.0	1559.0	1557.1	1555.3
177.5°	1566.0	1567.3	1567.2	1565.7	1564.2	1562.7	1561.1
180°	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0	1565.0

(END OF REPORT)