

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: P332234-927

Luminaire Tested: **S123DIW-S1165D1535U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332234-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S1165D1535U927-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1535 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8744.1 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

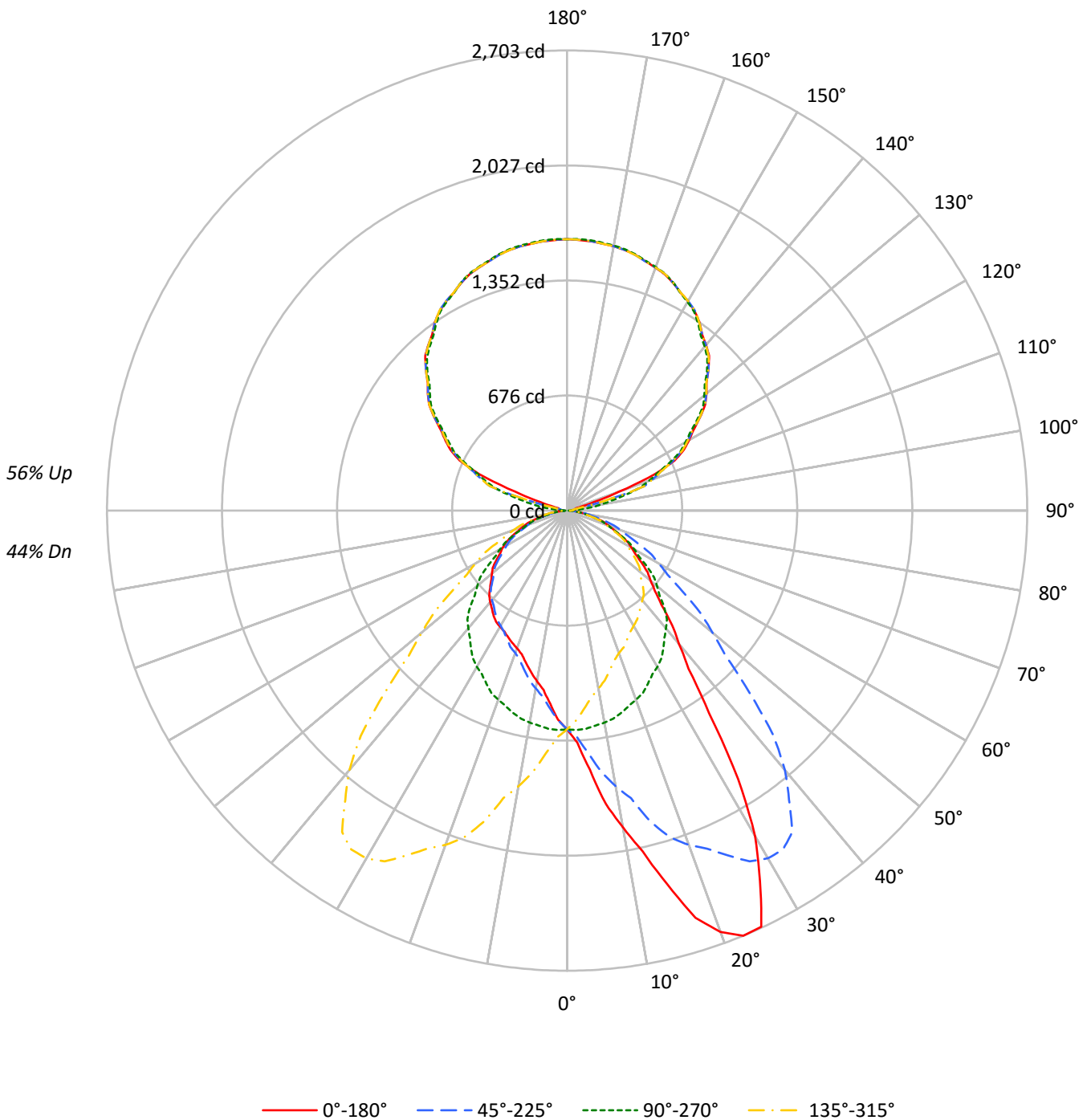
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	93	89	85	88	85	82	79	71	68	66	58	56	55	45	44	44	38				
2	88	81	75	70	81	75	69	65	62	58	55	51	48	46	40	39	37	32				
3	81	71	64	59	74	66	60	55	55	50	47	45	42	39	36	34	32	27				
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	27	24				
5	68	56	48	43	62	52	45	40	44	39	34	36	32	29	29	26	24	21				
6	62	51	43	37	57	47	40	35	40	34	30	33	29	26	26	23	21	18				
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16				
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	14				
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12				

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

	0°	90°	180°	270°
0°	13832	13832	13832	13832
5°	16495	13891	12310	13891
10°	20647	13821	11119	13821
15°	25324	13710	10351	13710
20°	30166	13536	9856	13536
25°	32033	13324	9745	13324
30°	27455	13170	9797	13170
35°	19094	12951	9900	12951
40°	14383	12694	9868	12694
45°	11942	12310	9742	12310
50°	10697	11531	9656	11531
55°	10001	10691	9533	10691
60°	9382	9810	9436	9810
65°	8818	8945	9133	8945
70°	8271	7956	8699	7956
75°	7407	6966	7977	6966
80°	6484	5709	6868	5709
85°	5076	4150	4619	4150



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.6	1.4
10°-20°	405.9	4.6
20°-30°	681.2	7.8
30°-40°	771.4	8.8
40°-50°	691.7	7.9
50°-60°	558.2	6.4
60°-70°	389.0	4.4
70°-80°	204.5	2.3
80°-90°	54.5	0.6
90°-100°	58.0	0.7
100°-110°	276.2	3.2
110°-120°	663.5	7.6
120°-130°	844.9	9.7
130°-140°	902.7	10.3
140°-150°	844.1	9.7
150°-160°	680.9	7.8
160°-170°	439.5	5.0
170°-180°	151.5	1.7
0°-30°	1213.7	13.9
0°-40°	1985.1	22.7
0°-60°	3235.0	37.0
0°-90°	3882.9	44.4
90°-120°	997.6	11.4
90°-150°	3589.3	41.0
90°-180°	4861.0	55.6
0°-180°	8744.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1285	1285	1285	1285	1285	
5°	1527	1286	1139	1286	1527	158
15°	2272	1230	929	1230	2272	656
25°	2697	1122	820	1122	2697	1183
35°	1453	986	753	986	1453	944
45°	784	809	640	809	784	621
55°	533	570	508	570	533	478
65°	346	351	359	351	346	345
75°	178	168	192	168	178	191
85°	41	34	37	34	41	50
90°	36	1	36	1	36	18
95°	45	72	45	72	45	38
105°	52	353	52	353	52	119
115°	696	662	696	662	696	643
125°	952	933	952	933	952	850
135°	1174	1162	1174	1162	1174	905
145°	1354	1341	1354	1341	1354	845
155°	1474	1477	1474	1477	1474	680
165°	1554	1557	1554	1557	1554	439
175°	1588	1594	1588	1594	1588	151
180°	1594	1594	1594	1594	1594	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1363.7	1362.7	1360.3	1362.2	1358.3	1352.7	1352.3	1347.3	1332.8	1331.8	1327.9
5°	1526.6	1521.6	1521.0	1520.4	1511.6	1499.8	1477.4	1475.5	1445.7	1430.7	1412.7
7.5°	1737.5	1740.1	1731.1	1723.1	1696.5	1678.9	1654.9	1624.1	1587.4	1550.1	1525.3
10°	1889.0	1909.5	1884.0	1866.5	1850.4	1819.8	1784.4	1740.1	1695.9	1644.3	1605.0
12.5°	2051.4	2061.4	2056.3	2039.9	2014.7	1968.3	1905.4	1856.7	1816.0	1730.0	1695.2
15°	2272.5	2310.5	2286.2	2230.2	2231.3	2187.1	2105.0	2014.7	1966.8	1891.4	1788.7
17.5°	2508.0	2512.8	2502.4	2455.8	2424.6	2363.9	2288.1	2201.5	2104.4	2013.3	1904.2
20°	2633.5	2629.8	2608.0	2583.8	2530.2	2482.9	2400.1	2303.6	2179.1	2089.5	1970.5
22.5°	2703.3	2697.1	2686.8	2666.4	2621.9	2571.0	2496.7	2391.3	2272.7	2149.2	2011.8
25°	2697.1	2705.1	2706.4	2700.8	2685.3	2654.8	2596.2	2512.2	2393.9	2235.1	2091.9
27.5°	2453.0	2464.5	2497.8	2527.2	2560.3	2593.8	2589.3	2547.7	2460.1	2323.0	2147.9
30°	2208.9	2184.0	2245.7	2323.5	2376.5	2469.8	2522.1	2525.2	2476.0	2358.4	2187.8
32.5°	1870.3	1897.7	1924.9	2020.7	2136.4	2241.2	2345.3	2429.1	2438.7	2360.4	2211.2
35°	1453.1	1487.4	1537.2	1587.0	1711.5	1818.6	2001.6	2161.0	2288.1	2304.9	2213.3
37.5°	1171.0	1187.9	1219.4	1269.3	1350.8	1477.8	1619.4	1820.8	2004.9	2141.7	2147.7
40°	1023.6	1028.5	1064.0	1102.0	1168.0	1272.6	1400.2	1578.3	1798.6	1989.8	2069.5
42.5°	913.0	923.9	939.0	975.5	1028.0	1106.8	1225.4	1372.5	1574.5	1794.5	1950.4
45°	784.5	796.9	806.3	830.5	867.9	920.8	1003.6	1138.1	1291.9	1519.1	1728.9
47.5°	699.6	700.5	707.5	725.8	751.2	790.9	849.5	935.9	1077.1	1261.4	1476.8
50°	638.8	648.7	651.3	665.5	685.5	714.7	763.3	836.8	952.6	1114.4	1312.4
52.5°	596.0	599.0	605.9	616.2	633.7	656.5	698.5	756.1	847.0	984.9	1167.0
55°	532.9	532.9	539.8	547.9	557.9	578.4	606.4	648.7	717.9	824.9	975.6
57.5°	474.7	477.8	482.6	485.1	493.6	507.2	530.6	562.7	614.3	696.6	816.5
60°	435.8	441.4	440.8	445.8	453.3	463.8	483.8	509.9	556.0	621.9	722.9
62.5°	402.0	401.6	401.5	407.4	414.9	425.0	437.9	460.6	499.7	558.3	644.1
65°	346.2	344.9	349.3	353.0	355.5	363.0	373.0	392.8	419.0	462.6	529.2
67.5°	296.6	293.0	295.3	296.6	300.9	306.7	316.0	328.4	349.1	384.1	434.4
70°	262.8	259.6	259.0	260.2	264.0	268.3	275.2	287.0	306.3	334.3	371.1
72.5°	227.8	225.8	225.6	228.4	230.1	233.0	237.8	248.7	264.0	285.0	319.2
75°	178.1	178.1	178.1	178.7	180.5	183.1	186.8	192.3	204.2	219.1	242.2
77.5°	133.5	133.3	132.6	132.5	135.2	136.3	137.2	142.4	149.0	159.1	175.9
80°	104.6	101.5	102.7	104.6	105.8	106.5	108.4	109.6	115.2	120.8	132.6
82.5°	77.7	75.1	75.3	78.2	78.4	79.1	81.0	82.7	84.8	89.9	96.3
85°	41.1	41.1	41.7	41.7	42.3	41.7	43.6	44.2	44.2	47.3	51.0
87.5°	22.0	20.9	21.3	21.7	21.2	21.5	21.8	22.0	22.3	22.7	22.4
90°	35.5	35.0	34.5	34.0	33.4	32.6	31.6	30.5	29.5	28.4	25.0
92.5°	39.3	39.0	38.7	38.3	38.0	37.1	35.4	33.7	32.0	30.3	27.7
95°	45.0	45.0	45.0	45.0	45.0	44.0	42.2	40.4	38.6	36.7	33.8
97.5°	48.8	48.6	48.2	48.0	47.8	46.6	44.4	42.4	40.2	38.1	35.1
100°	49.7	49.5	49.2	49.0	48.7	47.5	45.4	43.3	41.2	39.1	37.2
102.5°	50.7	50.2	49.7	49.3	48.8	51.8	58.4	64.9	71.4	78.0	122.8
105°	52.1	51.6	51.1	50.5	50.0	73.0	119.6	166.2	212.8	259.4	283.0
107.5°	163.7	198.8	233.9	269.0	304.1	338.7	372.9	407.0	441.2	475.4	471.7
110°	325.7	363.3	400.9	438.6	476.2	499.4	508.0	516.7	525.5	534.1	531.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	558.7	566.7	574.6	582.6	590.6	594.5	594.3	594.1	594.0	593.8	590.9
115°	696.4	695.3	694.3	693.2	692.1	690.3	687.7	685.1	682.4	679.8	677.4
117.5°	773.6	773.4	773.2	772.9	772.8	771.6	769.4	767.4	765.2	763.2	761.9
120°	826.6	826.6	826.6	826.6	826.6	825.6	823.5	821.4	819.3	817.1	816.3
122.5°	878.8	878.5	878.3	878.1	877.9	877.1	875.6	874.1	872.7	871.2	870.1
125°	952.2	951.6	951.1	950.6	950.1	949.5	949.0	948.5	948.0	947.5	946.4
127.5°	1022.8	1023.3	1023.8	1024.4	1024.8	1024.7	1023.9	1023.0	1022.2	1021.4	1020.1
130°	1068.3	1068.7	1069.3	1069.8	1070.3	1070.1	1069.1	1067.9	1066.9	1065.9	1064.9
132.5°	1109.9	1110.6	1111.4	1112.1	1112.9	1112.7	1111.7	1110.6	1109.5	1108.5	1107.6
135°	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8	1176.0	1175.2	1174.4	1173.6	1172.6
137.5°	1233.6	1234.1	1234.6	1235.2	1235.6	1235.3	1234.1	1232.8	1231.5	1230.3	1229.7
140°	1269.6	1270.1	1270.7	1271.1	1271.7	1271.4	1270.3	1269.3	1268.3	1267.2	1266.4
142.5°	1302.7	1303.5	1304.2	1305.0	1305.7	1305.6	1304.8	1303.9	1303.1	1302.3	1301.5
145°	1353.7	1353.7	1353.7	1353.7	1353.7	1353.4	1352.9	1352.3	1351.8	1351.3	1350.8
147.5°	1391.5	1392.7	1394.0	1395.2	1396.4	1396.8	1396.2	1395.7	1395.2	1394.6	1394.1
150°	1420.0	1420.8	1421.6	1422.4	1423.2	1423.2	1422.8	1422.2	1421.7	1421.2	1420.6
152.5°	1442.7	1443.9	1445.1	1446.4	1447.6	1447.7	1446.8	1445.8	1444.9	1443.9	1443.6
155°	1474.5	1476.0	1477.6	1479.2	1480.7	1480.9	1479.6	1478.3	1476.9	1475.6	1475.4
157.5°	1501.2	1503.2	1505.3	1507.4	1509.4	1509.7	1508.1	1506.5	1504.9	1503.3	1503.6
160°	1518.3	1520.1	1521.9	1523.8	1525.7	1525.7	1524.2	1522.7	1521.1	1519.5	1519.7
162.5°	1534.4	1536.0	1537.6	1539.3	1540.9	1540.8	1539.1	1537.2	1535.5	1533.7	1533.9
165°	1553.8	1555.6	1557.5	1559.3	1561.2	1561.1	1558.9	1556.8	1554.7	1552.6	1552.9
167.5°	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2	1574.1	1572.0	1569.9	1567.8	1567.8
170°	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8	1582.6	1580.5	1578.4	1576.3	1576.3
172.5°	1581.0	1583.3	1585.7	1588.0	1590.3	1590.4	1588.3	1586.2	1584.1	1582.0	1581.8
175°	1588.2	1590.2	1592.4	1594.4	1596.6	1596.7	1594.8	1593.0	1591.2	1589.4	1589.0
177.5°	1590.3	1592.4	1594.5	1596.6	1598.7	1598.9	1597.2	1595.5	1593.9	1592.2	1592.0
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1324.8	1320.9	1316.9	1310.0	1303.9	1295.5	1293.0	1290.0	1281.0	1273.1	1267.1
5°	1405.8	1390.8	1369.0	1349.2	1333.0	1311.2	1298.7	1285.6	1266.9	1250.1	1236.4
7.5°	1490.5	1461.1	1427.2	1390.6	1356.5	1323.7	1297.1	1273.4	1247.3	1222.5	1203.2
10°	1557.7	1515.4	1468.1	1417.1	1373.4	1331.1	1295.6	1264.5	1230.9	1201.6	1177.3
12.5°	1634.4	1571.7	1506.4	1444.4	1392.9	1334.1	1291.1	1251.6	1213.5	1178.2	1151.0
15°	1725.2	1645.5	1568.3	1483.0	1404.5	1331.1	1280.1	1230.3	1186.1	1149.9	1115.1
17.5°	1807.9	1717.6	1615.9	1512.1	1417.5	1330.4	1258.9	1202.6	1147.3	1103.1	1068.3
20°	1854.7	1752.0	1636.8	1529.1	1424.5	1327.4	1249.0	1181.7	1121.9	1075.2	1036.0
22.5°	1895.1	1774.9	1655.7	1540.6	1424.0	1319.4	1230.5	1161.3	1096.5	1050.8	1009.1
25°	1936.9	1793.1	1673.6	1538.4	1408.3	1300.0	1200.4	1121.9	1057.2	1003.6	960.7
27.5°	1972.8	1791.8	1650.0	1504.7	1383.6	1275.1	1168.7	1084.6	1015.8	957.7	914.1
30°	1996.6	1794.3	1625.6	1481.8	1359.8	1247.7	1144.3	1059.6	987.5	928.3	887.2
32.5°	2011.6	1792.8	1603.1	1449.9	1321.9	1222.7	1117.9	1030.2	956.1	897.9	858.3
35°	2020.3	1781.9	1564.6	1384.0	1260.8	1164.3	1076.5	985.6	907.8	853.6	808.7
37.5°	2002.9	1758.8	1519.7	1320.5	1185.6	1090.5	1016.7	939.2	864.7	805.2	766.5
40°	1975.5	1743.9	1484.9	1275.7	1133.8	1042.2	979.4	903.4	829.9	773.2	737.1
42.5°	1923.2	1713.5	1446.5	1225.9	1080.0	988.4	930.5	867.0	797.6	744.3	708.3
45°	1795.6	1647.3	1389.0	1151.2	1000.5	905.9	854.8	808.7	745.8	694.2	663.1
47.5°	1618.5	1547.9	1305.8	1072.4	917.6	826.6	773.5	736.4	690.5	648.7	618.9
50°	1495.5	1466.2	1249.5	1018.6	862.3	773.2	722.2	688.6	655.6	613.9	586.5
52.5°	1353.5	1371.6	1183.8	962.7	806.0	718.5	670.4	643.7	613.8	579.5	555.6
55°	1153.7	1219.0	1070.2	869.1	722.2	638.8	593.3	569.7	552.2	526.7	506.2
57.5°	966.5	1049.7	947.5	772.6	639.9	567.9	524.3	498.6	487.4	474.0	457.9
60°	855.5	937.6	859.8	707.9	584.6	516.1	477.5	455.7	444.5	435.2	421.5
62.5°	756.3	839.5	774.1	642.1	530.3	466.8	433.2	411.9	403.2	398.3	386.7
65°	620.1	691.7	648.1	539.8	452.7	396.6	366.1	351.2	343.0	341.2	333.7
67.5°	504.7	559.2	527.4	447.7	379.1	330.7	304.8	292.2	285.9	285.3	279.6
70°	429.0	480.0	455.7	383.5	324.4	286.4	264.0	252.8	249.1	248.4	245.3
72.5°	370.2	405.8	386.5	326.2	280.5	246.1	229.6	217.9	213.7	214.5	212.5
75°	273.9	300.7	289.5	247.8	211.0	188.6	174.9	167.5	163.7	165.6	163.1
77.5°	197.1	214.0	204.0	175.1	152.4	136.3	126.1	121.5	118.2	118.0	116.9
80°	148.8	158.8	153.1	135.7	117.1	103.4	95.2	92.1	90.3	89.7	89.0
82.5°	106.0	114.5	107.8	95.9	83.2	74.9	70.3	66.2	64.9	65.3	64.6
85°	53.6	56.6	54.2	46.7	41.7	37.9	35.5	33.6	32.4	33.0	31.8
87.5°	22.7	22.6	20.4	17.7	16.2	14.3	13.7	12.2	11.7	12.3	12.3
90°	21.5	18.1	14.7	11.7	9.1	6.4	3.8	1.2	3.8	6.4	9.1
92.5°	25.2	22.6	20.0	19.1	19.8	20.5	21.3	22.0	21.3	20.5	19.8
95°	30.9	28.0	25.1	29.1	39.8	50.7	61.5	72.2	61.5	50.7	39.8
97.5°	76.0	95.0	113.9	125.8	130.6	135.5	140.4	145.2	140.4	135.5	130.6
100°	121.2	162.2	203.3	221.2	215.9	210.6	205.4	200.2	205.4	210.6	215.9
102.5°	167.6	212.5	257.3	277.8	274.0	270.3	266.5	262.7	266.5	270.3	274.0
105°	306.7	330.4	354.1	364.5	361.6	358.7	355.8	352.9	355.8	358.7	361.6
107.5°	467.9	464.1	460.4	457.4	455.1	452.7	450.4	448.1	450.4	452.7	455.1
110°	528.3	525.5	522.5	520.1	517.9	515.8	513.7	511.6	513.7	515.8	517.9





TEST NUMBER: P332234-927

CATALOG NUMBER: S123DIW-S1165D1535U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	588.0	585.1	582.3	579.8	578.0	576.1	574.2	572.3	574.2	576.1	578.0
115°	675.0	672.7	670.3	668.4	666.8	665.2	663.6	662.0	663.6	665.2	666.8
117.5°	760.7	759.5	758.4	756.8	754.8	752.8	750.9	748.9	750.9	752.8	754.8
120°	815.6	814.8	814.0	812.5	810.1	807.7	805.3	803.0	805.3	807.7	810.1
122.5°	869.2	868.2	867.2	865.7	863.7	861.8	859.8	857.9	859.8	861.8	863.7
125°	945.3	944.3	943.3	941.7	939.5	937.5	935.3	933.2	935.3	937.5	939.5
127.5°	1018.8	1017.6	1016.3	1014.6	1012.5	1010.4	1008.3	1006.2	1008.3	1010.4	1012.5
130°	1063.7	1062.7	1061.7	1060.1	1058.0	1055.9	1053.8	1051.6	1053.8	1055.9	1058.0
132.5°	1106.8	1106.0	1105.2	1103.7	1101.5	1099.5	1097.3	1095.3	1097.3	1099.5	1101.5
135°	1171.6	1170.4	1169.4	1168.2	1166.6	1165.0	1163.4	1161.8	1163.4	1165.0	1166.6
137.5°	1229.1	1228.5	1228.0	1226.6	1224.6	1222.7	1220.7	1218.6	1220.7	1222.7	1224.6
140°	1265.6	1264.8	1264.0	1262.9	1261.3	1259.7	1258.1	1256.6	1258.1	1259.7	1261.3
142.5°	1300.7	1299.9	1299.1	1297.9	1296.3	1294.7	1293.2	1291.6	1293.2	1294.7	1296.3
145°	1350.2	1349.7	1349.2	1348.0	1346.2	1344.3	1342.4	1340.6	1342.4	1344.3	1346.2
147.5°	1393.6	1393.1	1392.5	1391.6	1390.4	1389.3	1388.1	1386.8	1388.1	1389.3	1390.4
150°	1420.1	1419.6	1419.0	1418.4	1417.6	1416.8	1416.0	1415.2	1416.0	1416.8	1417.6
152.5°	1443.3	1443.0	1442.6	1442.3	1441.9	1441.5	1441.2	1440.8	1441.2	1441.5	1441.9
155°	1475.1	1474.9	1474.6	1474.7	1475.3	1475.8	1476.3	1476.8	1476.3	1475.8	1475.3
157.5°	1503.9	1504.1	1504.4	1504.6	1504.6	1504.7	1504.8	1504.8	1504.8	1504.7	1504.6
160°	1520.0	1520.3	1520.5	1520.8	1521.1	1521.3	1521.5	1521.9	1521.5	1521.3	1521.1
162.5°	1534.2	1534.5	1534.7	1535.2	1535.9	1536.6	1537.2	1537.9	1537.2	1536.6	1535.9
165°	1553.2	1553.4	1553.7	1554.2	1555.0	1555.8	1556.6	1557.4	1556.6	1555.8	1555.0
167.5°	1567.8	1567.8	1567.8	1568.3	1569.4	1570.4	1571.5	1572.5	1571.5	1570.4	1569.4
170°	1576.3	1576.3	1576.3	1576.8	1577.9	1578.9	1580.0	1581.0	1580.0	1578.9	1577.9
172.5°	1581.6	1581.4	1581.1	1581.7	1582.9	1584.2	1585.5	1586.7	1585.5	1584.2	1582.9
175°	1588.8	1588.6	1588.2	1588.8	1590.1	1591.4	1592.8	1594.0	1592.8	1591.4	1590.1
177.5°	1591.7	1591.6	1591.3	1591.7	1592.8	1593.9	1594.9	1595.9	1594.9	1593.9	1592.8
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1263.6	1260.1	1255.1	1247.7	1241.7	1232.2	1232.2	1233.7	1233.7	1233.3	1232.2
5°	1225.3	1215.9	1204.8	1191.7	1178.0	1164.3	1161.7	1156.7	1153.0	1150.6	1147.5
7.5°	1184.8	1168.2	1151.9	1133.6	1116.9	1103.1	1093.5	1085.5	1080.5	1075.0	1071.0
10°	1157.4	1136.9	1117.5	1098.3	1077.1	1060.3	1049.7	1042.2	1036.6	1031.7	1029.1
12.5°	1125.1	1101.5	1080.2	1061.9	1038.7	1021.4	1011.4	1007.8	1001.2	990.8	985.3
15°	1077.7	1055.9	1030.4	1002.3	991.2	970.0	958.1	952.6	948.8	940.7	938.3
17.5°	1037.2	1008.7	980.1	959.2	938.3	921.1	914.6	907.6	902.6	896.0	894.1
20°	1004.9	979.4	953.2	930.8	908.9	890.3	884.7	879.7	874.7	871.6	869.1
22.5°	972.0	946.5	924.8	903.9	880.6	868.4	862.3	856.8	853.3	851.2	848.7
25°	925.8	903.4	879.1	860.4	841.8	833.6	829.9	826.8	824.3	821.2	820.5
27.5°	884.5	860.1	840.3	822.9	809.5	802.8	799.2	797.6	798.2	799.3	800.0
30°	853.6	831.2	815.0	800.0	787.6	781.3	780.7	780.7	783.2	783.9	785.1
32.5°	825.2	806.8	790.6	776.1	766.7	762.4	764.8	764.8	766.8	768.4	770.6
35°	783.9	767.6	755.2	742.8	734.7	736.5	737.8	739.0	742.1	745.8	748.4
37.5°	744.3	730.3	717.3	707.7	703.9	707.3	710.3	712.9	716.4	719.4	721.8
40°	716.0	705.4	692.9	684.2	685.5	687.4	689.8	692.9	696.1	697.9	700.4
42.5°	689.6	678.5	669.1	661.8	663.5	665.9	667.4	669.1	672.6	676.0	677.5
45°	649.4	640.6	631.9	627.6	628.8	630.1	631.3	633.2	636.3	638.8	639.4
47.5°	604.2	598.1	592.2	588.0	589.9	589.5	591.1	595.1	596.0	597.5	601.0
50°	575.3	569.7	562.8	561.6	561.6	561.6	562.2	567.2	567.2	569.7	572.2
52.5°	543.4	539.8	535.4	533.2	532.2	532.2	534.8	537.3	538.3	541.8	544.3
55°	496.2	492.5	488.7	486.9	485.6	486.9	491.9	493.1	496.2	498.0	499.9
57.5°	447.0	444.2	441.2	440.1	439.9	441.6	444.3	448.0	448.8	454.5	457.3
60°	414.6	410.3	407.8	407.8	406.5	412.2	410.9	417.2	418.4	422.2	426.5
62.5°	381.3	375.4	374.5	374.5	376.2	377.8	379.5	382.3	385.5	390.2	393.6
65°	327.5	324.4	328.8	328.1	326.9	330.6	330.6	333.7	337.5	341.8	348.6
67.5°	276.6	275.0	275.3	275.3	277.2	279.3	281.1	283.8	288.3	292.9	297.4
70°	242.2	244.1	241.0	243.4	245.3	245.9	247.2	250.9	255.9	259.0	264.0
72.5°	208.8	208.7	209.1	210.1	211.9	213.0	214.3	218.6	224.0	226.6	230.6
75°	160.7	160.0	161.8	161.8	165.0	166.2	167.5	169.4	174.4	178.1	181.2
77.5°	117.3	118.0	117.6	119.8	118.9	119.1	123.0	124.9	125.4	132.8	134.4
80°	88.4	89.7	90.3	90.9	91.5	90.3	94.7	96.5	96.5	100.8	103.9
82.5°	63.5	64.2	65.9	66.5	66.6	67.9	68.2	69.6	71.1	73.0	77.1
85°	31.8	33.6	34.2	33.6	34.2	33.0	34.9	35.5	36.1	36.1	36.1
87.5°	12.3	13.4	13.6	14.8	15.0	16.2	16.3	15.6	15.8	17.5	15.7
90°	11.7	14.7	18.1	21.5	25.0	28.4	29.5	30.5	31.6	32.6	33.4
92.5°	19.1	20.0	22.6	25.2	27.7	30.3	32.0	33.7	35.4	37.1	38.0
95°	29.1	25.1	28.0	30.9	33.8	36.7	38.6	40.4	42.2	44.0	45.0
97.5°	125.8	113.9	95.0	76.0	57.1	38.1	40.2	42.4	44.4	46.6	47.8
100°	221.2	203.3	162.2	121.2	80.2	39.1	41.2	43.3	45.4	47.5	48.7
102.5°	277.8	257.3	212.5	167.6	122.8	78.0	71.4	64.9	58.4	51.8	48.8
105°	364.5	354.1	330.4	306.7	283.0	259.4	212.8	166.2	119.6	73.0	50.0
107.5°	457.4	460.4	464.1	467.9	471.7	475.4	441.2	407.0	372.9	338.7	304.1
110°	520.1	522.5	525.5	528.3	531.2	534.1	525.5	516.7	508.0	499.4	476.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	579.8	582.3	585.1	588.0	590.9	593.8	594.0	594.1	594.3	594.5	590.6
115°	668.4	670.3	672.7	675.0	677.4	679.8	682.4	685.1	687.7	690.3	692.1
117.5°	756.8	758.4	759.5	760.7	761.9	763.2	765.2	767.4	769.4	771.6	772.8
120°	812.5	814.0	814.8	815.6	816.3	817.1	819.3	821.4	823.5	825.6	826.6
122.5°	865.7	867.2	868.2	869.2	870.1	871.2	872.7	874.1	875.6	877.1	877.9
125°	941.7	943.3	944.3	945.3	946.4	947.5	948.0	948.5	949.0	949.5	950.1
127.5°	1014.6	1016.3	1017.6	1018.8	1020.1	1021.4	1022.2	1023.0	1023.9	1024.7	1024.8
130°	1060.1	1061.7	1062.7	1063.7	1064.9	1065.9	1066.9	1067.9	1069.1	1070.1	1070.3
132.5°	1103.7	1105.2	1106.0	1106.8	1107.6	1108.5	1109.5	1110.6	1111.7	1112.7	1112.9
135°	1168.2	1169.4	1170.4	1171.6	1172.6	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8
137.5°	1226.6	1228.0	1228.5	1229.1	1229.7	1230.3	1231.5	1232.8	1234.1	1235.3	1235.6
140°	1262.9	1264.0	1264.8	1265.6	1266.4	1267.2	1268.3	1269.3	1270.3	1271.4	1271.7
142.5°	1297.9	1299.1	1299.9	1300.7	1301.5	1302.3	1303.1	1303.9	1304.8	1305.6	1305.7
145°	1348.0	1349.2	1349.7	1350.2	1350.8	1351.3	1351.8	1352.3	1352.9	1353.4	1353.7
147.5°	1391.6	1392.5	1393.1	1393.6	1394.1	1394.6	1395.2	1395.7	1396.2	1396.8	1396.4
150°	1418.4	1419.0	1419.6	1420.1	1420.6	1421.2	1421.7	1422.2	1422.8	1423.2	1423.2
152.5°	1442.3	1442.6	1443.0	1443.3	1443.6	1443.9	1444.9	1445.8	1446.8	1447.7	1447.6
155°	1474.7	1474.6	1474.9	1475.1	1475.4	1475.6	1476.9	1478.3	1479.6	1480.9	1480.7
157.5°	1504.6	1504.4	1504.1	1503.9	1503.6	1503.3	1504.9	1506.5	1508.1	1509.7	1509.4
160°	1520.8	1520.5	1520.3	1520.0	1519.7	1519.5	1521.1	1522.7	1524.2	1525.7	1525.7
162.5°	1535.2	1534.7	1534.5	1534.2	1533.9	1533.7	1535.5	1537.2	1539.1	1540.8	1540.9
165°	1554.2	1553.7	1553.4	1553.2	1552.9	1552.6	1554.7	1556.8	1558.9	1561.1	1561.2
167.5°	1568.3	1567.8	1567.8	1567.8	1567.8	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2
170°	1576.8	1576.3	1576.3	1576.3	1576.3	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8
172.5°	1581.7	1581.1	1581.4	1581.6	1581.8	1582.0	1584.1	1586.2	1588.3	1590.4	1590.3
175°	1588.8	1588.2	1588.6	1588.8	1589.0	1589.4	1591.2	1593.0	1594.8	1596.7	1596.6
177.5°	1591.7	1591.3	1591.6	1591.7	1592.0	1592.2	1593.9	1595.5	1597.2	1598.9	1598.7
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1228.8	1228.3	1231.8	1229.2	1231.8	1228.3	1228.8	1232.2	1233.3	1233.7	1233.7
5°	1143.7	1145.6	1139.3	1139.3	1139.3	1145.6	1143.7	1147.5	1150.6	1153.0	1156.7
7.5°	1068.0	1065.2	1065.5	1062.2	1065.5	1065.2	1068.0	1071.0	1075.0	1080.5	1085.5
10°	1021.7	1018.0	1016.7	1017.3	1016.7	1018.0	1021.7	1029.1	1031.7	1036.6	1042.2
12.5°	983.3	982.5	974.4	974.5	974.4	982.5	983.3	985.3	990.8	1001.2	1007.8
15°	938.3	926.5	925.2	928.9	925.2	926.5	938.3	938.3	940.7	948.8	952.6
17.5°	893.0	886.8	887.2	885.3	887.2	886.8	893.0	894.1	896.0	902.6	907.6
20°	869.1	865.4	864.7	860.4	864.7	865.4	869.1	869.1	871.6	874.7	879.7
22.5°	847.2	846.0	846.4	841.5	846.4	846.0	847.2	848.7	851.2	853.3	856.8
25°	820.0	823.1	820.5	820.5	820.5	823.1	820.0	820.5	821.2	824.3	826.8
27.5°	801.5	801.4	800.2	800.2	800.2	801.4	801.5	800.0	799.3	798.2	797.6
30°	787.6	787.0	788.2	788.2	788.2	787.0	787.6	785.1	783.9	783.2	780.7
32.5°	773.6	774.5	774.8	775.2	774.8	774.5	773.6	770.6	768.4	766.8	764.8
35°	752.1	752.7	754.6	753.4	754.6	752.7	752.1	748.4	745.8	742.1	739.0
37.5°	722.9	725.8	725.2	726.2	725.2	725.8	722.9	721.8	719.4	716.4	712.9
40°	701.0	702.9	702.3	702.3	702.3	702.9	701.0	700.4	697.9	696.1	692.9
42.5°	678.7	680.0	678.3	677.4	678.3	680.0	678.7	677.5	676.0	672.6	669.1
45°	641.9	640.6	642.5	640.0	642.5	640.6	641.9	639.4	638.8	636.3	633.2
47.5°	600.8	602.1	602.5	604.4	602.5	602.1	600.8	601.0	597.5	596.0	595.1
50°	573.4	577.1	577.1	576.6	577.1	577.1	573.4	572.2	569.7	567.2	567.2
52.5°	546.5	548.3	550.7	550.6	550.7	548.3	546.5	544.3	541.8	538.3	537.3
55°	504.9	506.2	507.4	508.0	507.4	506.2	504.9	499.9	498.0	496.2	493.1
57.5°	461.8	461.4	464.3	465.2	464.3	461.4	461.8	457.3	454.5	448.8	448.0
60°	431.4	431.4	436.4	438.3	436.4	431.4	431.4	426.5	422.2	418.4	417.2
62.5°	399.1	401.1	406.1	403.5	406.1	401.1	399.1	393.6	390.2	385.5	382.3
65°	351.7	356.7	356.1	358.6	356.1	356.7	351.7	348.6	341.8	337.5	333.7
67.5°	302.3	305.5	309.9	310.3	309.9	305.5	302.3	297.4	292.9	288.3	283.8
70°	268.9	272.0	274.6	276.4	274.6	272.0	268.9	264.0	259.0	255.9	250.9
72.5°	236.6	238.2	244.2	241.5	244.2	238.2	236.6	230.6	226.6	224.0	218.6
75°	185.5	189.9	193.6	191.8	193.6	189.9	185.5	181.2	178.1	174.4	169.4
77.5°	137.2	141.6	143.3	141.7	143.3	141.6	137.2	134.4	132.8	125.4	124.9
80°	108.4	107.7	111.5	110.8	111.5	107.7	108.4	103.9	100.8	96.5	96.5
82.5°	79.5	78.8	80.6	81.0	80.6	78.8	79.5	77.1	73.0	71.1	69.6
85°	38.6	40.5	37.9	37.4	37.9	40.5	38.6	36.1	36.1	36.1	35.5
87.5°	15.8	15.8	15.4	15.1	15.4	15.8	15.8	15.7	17.5	15.8	15.6
90°	34.0	34.5	35.0	35.5	35.0	34.5	34.0	33.4	32.6	31.6	30.5
92.5°	38.3	38.7	39.0	39.3	39.0	38.7	38.3	38.0	37.1	35.4	33.7
95°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.0	42.2	40.4
97.5°	48.0	48.2	48.6	48.8	48.6	48.2	48.0	47.8	46.6	44.4	42.4
100°	49.0	49.2	49.5	49.7	49.5	49.2	49.0	48.7	47.5	45.4	43.3
102.5°	49.3	49.7	50.2	50.7	50.2	49.7	49.3	48.8	51.8	58.4	64.9
105°	50.5	51.1	51.6	52.1	51.6	51.1	50.5	50.0	73.0	119.6	166.2
107.5°	269.0	233.9	198.8	163.7	198.8	233.9	269.0	304.1	338.7	372.9	407.0
110°	438.6	400.9	363.3	325.7	363.3	400.9	438.6	476.2	499.4	508.0	516.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	582.6	574.6	566.7	558.7	566.7	574.6	582.6	590.6	594.5	594.3	594.1
115°	693.2	694.3	695.3	696.4	695.3	694.3	693.2	692.1	690.3	687.7	685.1
117.5°	772.9	773.2	773.4	773.6	773.4	773.2	772.9	772.8	771.6	769.4	767.4
120°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	825.6	823.5	821.4
122.5°	878.1	878.3	878.5	878.8	878.5	878.3	878.1	877.9	877.1	875.6	874.1
125°	950.6	951.1	951.6	952.2	951.6	951.1	950.6	950.1	949.5	949.0	948.5
127.5°	1024.4	1023.8	1023.3	1022.8	1023.3	1023.8	1024.4	1024.8	1024.7	1023.9	1023.0
130°	1069.8	1069.3	1068.7	1068.3	1068.7	1069.3	1069.8	1070.3	1070.1	1069.1	1067.9
132.5°	1112.1	1111.4	1110.6	1109.9	1110.6	1111.4	1112.1	1112.9	1112.7	1111.7	1110.6
135°	1176.0	1175.2	1174.4	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8	1176.0	1175.2
137.5°	1235.2	1234.6	1234.1	1233.6	1234.1	1234.6	1235.2	1235.6	1235.3	1234.1	1232.8
140°	1271.1	1270.7	1270.1	1269.6	1270.1	1270.7	1271.1	1271.7	1271.4	1270.3	1269.3
142.5°	1305.0	1304.2	1303.5	1302.7	1303.5	1304.2	1305.0	1305.7	1305.6	1304.8	1303.9
145°	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.4	1352.9	1352.3
147.5°	1395.2	1394.0	1392.7	1391.5	1392.7	1394.0	1395.2	1396.4	1396.8	1396.2	1395.7
150°	1422.4	1421.6	1420.8	1420.0	1420.8	1421.6	1422.4	1423.2	1423.2	1422.8	1422.2
152.5°	1446.4	1445.1	1443.9	1442.7	1443.9	1445.1	1446.4	1447.6	1447.7	1446.8	1445.8
155°	1479.2	1477.6	1476.0	1474.5	1476.0	1477.6	1479.2	1480.7	1480.9	1479.6	1478.3
157.5°	1507.4	1505.3	1503.2	1501.2	1503.2	1505.3	1507.4	1509.4	1509.7	1508.1	1506.5
160°	1523.8	1521.9	1520.1	1518.3	1520.1	1521.9	1523.8	1525.7	1525.7	1524.2	1522.7
162.5°	1539.3	1537.6	1536.0	1534.4	1536.0	1537.6	1539.3	1540.9	1540.8	1539.1	1537.2
165°	1559.3	1557.5	1555.6	1553.8	1555.6	1557.5	1559.3	1561.2	1561.1	1558.9	1556.8
167.5°	1574.1	1572.0	1569.9	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2	1574.1	1572.0
170°	1582.6	1580.5	1578.4	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8	1582.6	1580.5
172.5°	1588.0	1585.7	1583.3	1581.0	1583.3	1585.7	1588.0	1590.3	1590.4	1588.3	1586.2
175°	1594.4	1592.4	1590.2	1588.2	1590.2	1592.4	1594.4	1596.6	1596.7	1594.8	1593.0
177.5°	1596.6	1594.5	1592.4	1590.3	1592.4	1594.5	1596.6	1598.7	1598.9	1597.2	1595.5
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1232.2	1232.2	1241.7	1247.7	1255.1	1260.1	1263.6	1267.1	1273.1	1281.0	1290.0
5°	1161.7	1164.3	1178.0	1191.7	1204.8	1215.9	1225.3	1236.4	1250.1	1266.9	1285.6
7.5°	1093.5	1103.1	1116.9	1133.6	1151.9	1168.2	1184.8	1203.2	1222.5	1247.3	1273.4
10°	1049.7	1060.3	1077.1	1098.3	1117.5	1136.9	1157.4	1177.3	1201.6	1230.9	1264.5
12.5°	1011.4	1021.4	1038.7	1061.9	1080.2	1101.5	1125.1	1151.0	1178.2	1213.5	1251.6
15°	958.1	970.0	991.2	1002.3	1030.4	1055.9	1077.7	1115.1	1149.9	1186.1	1230.3
17.5°	914.6	921.1	938.3	959.2	980.1	1008.7	1037.2	1068.3	1103.1	1147.3	1202.6
20°	884.7	890.3	908.9	930.8	953.2	979.4	1004.9	1036.0	1075.2	1121.9	1181.7
22.5°	862.3	868.4	880.6	903.9	924.8	946.5	972.0	1009.1	1050.8	1096.5	1161.3
25°	829.9	833.6	841.8	860.4	879.1	903.4	925.8	960.7	1003.6	1057.2	1121.9
27.5°	799.2	802.8	809.5	822.9	840.3	860.1	884.5	914.1	957.7	1015.8	1084.6
30°	780.7	781.3	787.6	800.0	815.0	831.2	853.6	887.2	928.3	987.5	1059.6
32.5°	764.8	762.4	766.7	776.1	790.6	806.8	825.2	858.3	897.9	956.1	1030.2
35°	737.8	736.5	734.7	742.8	755.2	767.6	783.9	808.7	853.6	907.8	985.6
37.5°	710.3	707.3	703.9	707.7	717.3	730.3	744.3	766.5	805.2	864.7	939.2
40°	689.8	687.4	685.5	684.2	692.9	705.4	716.0	737.1	773.2	829.9	903.4
42.5°	667.4	665.9	663.5	661.8	669.1	678.5	689.6	708.3	744.3	797.6	867.0
45°	631.3	630.1	628.8	627.6	631.9	640.6	649.4	663.1	694.2	745.8	808.7
47.5°	591.1	589.5	589.9	588.0	592.2	598.1	604.2	618.9	648.7	690.5	736.4
50°	562.2	561.6	561.6	561.6	562.8	569.7	575.3	586.5	613.9	655.6	688.6
52.5°	534.8	532.2	532.2	533.2	535.4	539.8	543.4	555.6	579.5	613.8	643.7
55°	491.9	486.9	485.6	486.9	488.7	492.5	496.2	506.2	526.7	552.2	569.7
57.5°	444.3	441.6	439.9	440.1	441.2	444.2	447.0	457.9	474.0	487.4	498.6
60°	410.9	412.2	406.5	407.8	407.8	410.3	414.6	421.5	435.2	444.5	455.7
62.5°	379.5	377.8	376.2	374.5	374.5	375.4	381.3	386.7	398.3	403.2	411.9
65°	330.6	330.6	326.9	328.1	328.8	324.4	327.5	333.7	341.2	343.0	351.2
67.5°	281.1	279.3	277.2	275.3	275.3	275.0	276.6	279.6	285.3	285.9	292.2
70°	247.2	245.9	245.3	243.4	241.0	244.1	242.2	245.3	248.4	249.1	252.8
72.5°	214.3	213.0	211.9	210.1	209.1	208.7	208.8	212.5	214.5	213.7	217.9
75°	167.5	166.2	165.0	161.8	161.8	160.0	160.7	163.1	165.6	163.7	167.5
77.5°	123.0	119.1	118.9	119.8	117.6	118.0	117.3	116.9	118.0	118.2	121.5
80°	94.7	90.3	91.5	90.9	90.3	89.7	88.4	89.0	89.7	90.3	92.1
82.5°	68.2	67.9	66.6	66.5	65.9	64.2	63.5	64.6	65.3	64.9	66.2
85°	34.9	33.0	34.2	33.6	34.2	33.6	31.8	31.8	33.0	32.4	33.6
87.5°	16.3	16.2	15.0	14.8	13.6	13.4	12.3	12.3	12.3	11.7	12.2
90°	29.5	28.4	25.0	21.5	18.1	14.7	11.7	9.1	6.4	3.8	1.2
92.5°	32.0	30.3	27.7	25.2	22.6	20.0	19.1	19.8	20.5	21.3	22.0
95°	38.6	36.7	33.8	30.9	28.0	25.1	29.1	39.8	50.7	61.5	72.2
97.5°	40.2	38.1	57.1	76.0	95.0	113.9	125.8	130.6	135.5	140.4	145.2
100°	41.2	39.1	80.2	121.2	162.2	203.3	221.2	215.9	210.6	205.4	200.2
102.5°	71.4	78.0	122.8	167.6	212.5	257.3	277.8	274.0	270.3	266.5	262.7
105°	212.8	259.4	283.0	306.7	330.4	354.1	364.5	361.6	358.7	355.8	352.9
107.5°	441.2	475.4	471.7	467.9	464.1	460.4	457.4	455.1	452.7	450.4	448.1
110°	525.5	534.1	531.2	528.3	525.5	522.5	520.1	517.9	515.8	513.7	511.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	594.0	593.8	590.9	588.0	585.1	582.3	579.8	578.0	576.1	574.2	572.3
115°	682.4	679.8	677.4	675.0	672.7	670.3	668.4	666.8	665.2	663.6	662.0
117.5°	765.2	763.2	761.9	760.7	759.5	758.4	756.8	754.8	752.8	750.9	748.9
120°	819.3	817.1	816.3	815.6	814.8	814.0	812.5	810.1	807.7	805.3	803.0
122.5°	872.7	871.2	870.1	869.2	868.2	867.2	865.7	863.7	861.8	859.8	857.9
125°	948.0	947.5	946.4	945.3	944.3	943.3	941.7	939.5	937.5	935.3	933.2
127.5°	1022.2	1021.4	1020.1	1018.8	1017.6	1016.3	1014.6	1012.5	1010.4	1008.3	1006.2
130°	1066.9	1065.9	1064.9	1063.7	1062.7	1061.7	1060.1	1058.0	1055.9	1053.8	1051.6
132.5°	1109.5	1108.5	1107.6	1106.8	1106.0	1105.2	1103.7	1101.5	1099.5	1097.3	1095.3
135°	1174.4	1173.6	1172.6	1171.6	1170.4	1169.4	1168.2	1166.6	1165.0	1163.4	1161.8
137.5°	1231.5	1230.3	1229.7	1229.1	1228.5	1228.0	1226.6	1224.6	1222.7	1220.7	1218.6
140°	1268.3	1267.2	1266.4	1265.6	1264.8	1264.0	1262.9	1261.3	1259.7	1258.1	1256.6
142.5°	1303.1	1302.3	1301.5	1300.7	1299.9	1299.1	1297.9	1296.3	1294.7	1293.2	1291.6
145°	1351.8	1351.3	1350.8	1350.2	1349.7	1349.2	1348.0	1346.2	1344.3	1342.4	1340.6
147.5°	1395.2	1394.6	1394.1	1393.6	1393.1	1392.5	1391.6	1390.4	1389.3	1388.1	1386.8
150°	1421.7	1421.2	1420.6	1420.1	1419.6	1419.0	1418.4	1417.6	1416.8	1416.0	1415.2
152.5°	1444.9	1443.9	1443.6	1443.3	1443.0	1442.6	1442.3	1441.9	1441.5	1441.2	1440.8
155°	1476.9	1475.6	1475.4	1475.1	1474.9	1474.6	1474.7	1475.3	1475.8	1476.3	1476.8
157.5°	1504.9	1503.3	1503.6	1503.9	1504.1	1504.4	1504.6	1504.6	1504.7	1504.8	1504.8
160°	1521.1	1519.5	1519.7	1520.0	1520.3	1520.5	1520.8	1521.1	1521.3	1521.5	1521.9
162.5°	1535.5	1533.7	1533.9	1534.2	1534.5	1534.7	1535.2	1535.9	1536.6	1537.2	1537.9
165°	1554.7	1552.6	1552.9	1553.2	1553.4	1553.7	1554.2	1555.0	1555.8	1556.6	1557.4
167.5°	1569.9	1567.8	1567.8	1567.8	1567.8	1567.8	1568.3	1569.4	1570.4	1571.5	1572.5
170°	1578.4	1576.3	1576.3	1576.3	1576.3	1576.3	1576.8	1577.9	1578.9	1580.0	1581.0
172.5°	1584.1	1582.0	1581.8	1581.6	1581.4	1581.1	1581.7	1582.9	1584.2	1585.5	1586.7
175°	1591.2	1589.4	1589.0	1588.8	1588.6	1588.2	1588.8	1590.1	1591.4	1592.8	1594.0
177.5°	1593.9	1592.2	1592.0	1591.7	1591.6	1591.3	1591.7	1592.8	1593.9	1594.9	1595.9
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1293.0	1295.5	1303.9	1310.0	1316.9	1320.9	1324.8	1327.9	1331.8	1332.8	1347.3
5°	1298.7	1311.2	1333.0	1349.2	1369.0	1390.8	1405.8	1412.7	1430.7	1445.7	1475.5
7.5°	1297.1	1323.7	1356.5	1390.6	1427.2	1461.1	1490.5	1525.3	1550.1	1587.4	1624.1
10°	1295.6	1331.1	1373.4	1417.1	1468.1	1515.4	1557.7	1605.0	1644.3	1695.9	1740.1
12.5°	1291.1	1334.1	1392.9	1444.4	1506.4	1571.7	1634.4	1695.2	1730.0	1816.0	1856.7
15°	1280.1	1331.1	1404.5	1483.0	1568.3	1645.5	1725.2	1788.7	1891.4	1966.8	2014.7
17.5°	1258.9	1330.4	1417.5	1512.1	1615.9	1717.6	1807.9	1904.2	2013.3	2104.4	2201.5
20°	1249.0	1327.4	1424.5	1529.1	1636.8	1752.0	1854.7	1970.5	2089.5	2179.1	2303.6
22.5°	1230.5	1319.4	1424.0	1540.6	1655.7	1774.9	1895.1	2011.8	2149.2	2272.7	2391.3
25°	1200.4	1300.0	1408.3	1538.4	1673.6	1793.1	1936.9	2091.9	2235.1	2393.9	2512.2
27.5°	1168.7	1275.1	1383.6	1504.7	1650.0	1791.8	1972.8	2147.9	2323.0	2460.1	2547.7
30°	1144.3	1247.7	1359.8	1481.8	1625.6	1794.3	1996.6	2187.8	2358.4	2476.0	2525.2
32.5°	1117.9	1222.7	1321.9	1449.9	1603.1	1792.8	2011.6	2211.2	2360.4	2438.7	2429.1
35°	1076.5	1164.3	1260.8	1384.0	1564.6	1781.9	2020.3	2213.3	2304.9	2288.1	2161.0
37.5°	1016.7	1090.5	1185.6	1320.5	1519.7	1758.8	2002.9	2147.7	2141.7	2004.9	1820.8
40°	979.4	1042.2	1133.8	1275.7	1484.9	1743.9	1975.5	2069.5	1989.8	1798.6	1578.3
42.5°	930.5	988.4	1080.0	1225.9	1446.5	1713.5	1923.2	1950.4	1794.5	1574.5	1372.5
45°	854.8	905.9	1000.5	1151.2	1389.0	1647.3	1795.6	1728.9	1519.1	1291.9	1138.1
47.5°	773.5	826.6	917.6	1072.4	1305.8	1547.9	1618.5	1476.8	1261.4	1077.1	935.9
50°	722.2	773.2	862.3	1018.6	1249.5	1466.2	1495.5	1312.4	1114.4	952.6	836.8
52.5°	670.4	718.5	806.0	962.7	1183.8	1371.6	1353.5	1167.0	984.9	847.0	756.1
55°	593.3	638.8	722.2	869.1	1070.2	1219.0	1153.7	975.6	824.9	717.9	648.7
57.5°	524.3	567.9	639.9	772.6	947.5	1049.7	966.5	816.5	696.6	614.3	562.7
60°	477.5	516.1	584.6	707.9	859.8	937.6	855.5	722.9	621.9	556.0	509.9
62.5°	433.2	466.8	530.3	642.1	774.1	839.5	756.3	644.1	558.3	499.7	460.6
65°	366.1	396.6	452.7	539.8	648.1	691.7	620.1	529.2	462.6	419.0	392.8
67.5°	304.8	330.7	379.1	447.7	527.4	559.2	504.7	434.4	384.1	349.1	328.4
70°	264.0	286.4	324.4	383.5	455.7	480.0	429.0	371.1	334.3	306.3	287.0
72.5°	229.6	246.1	280.5	326.2	386.5	405.8	370.2	319.2	285.0	264.0	248.7
75°	174.9	188.6	211.0	247.8	289.5	300.7	273.9	242.2	219.1	204.2	192.3
77.5°	126.1	136.3	152.4	175.1	204.0	214.0	197.1	175.9	159.1	149.0	142.4
80°	95.2	103.4	117.1	135.7	153.1	158.8	148.8	132.6	120.8	115.2	109.6
82.5°	70.3	74.9	83.2	95.9	107.8	114.5	106.0	96.3	89.9	84.8	82.7
85°	35.5	37.9	41.7	46.7	54.2	56.6	53.6	51.0	47.3	44.2	44.2
87.5°	13.7	14.3	16.2	17.7	20.4	22.6	22.7	22.4	22.7	22.3	22.0
90°	3.8	6.4	9.1	11.7	14.7	18.1	21.5	25.0	28.4	29.5	30.5
92.5°	21.3	20.5	19.8	19.1	20.0	22.6	25.2	27.7	30.3	32.0	33.7
95°	61.5	50.7	39.8	29.1	25.1	28.0	30.9	33.8	36.7	38.6	40.4
97.5°	140.4	135.5	130.6	125.8	113.9	95.0	76.0	57.1	38.1	40.2	42.4
100°	205.4	210.6	215.9	221.2	203.3	162.2	121.2	80.2	39.1	41.2	43.3
102.5°	266.5	270.3	274.0	277.8	257.3	212.5	167.6	122.8	78.0	71.4	64.9
105°	355.8	358.7	361.6	364.5	354.1	330.4	306.7	283.0	259.4	212.8	166.2
107.5°	450.4	452.7	455.1	457.4	460.4	464.1	467.9	471.7	475.4	441.2	407.0
110°	513.7	515.8	517.9	520.1	522.5	525.5	528.3	531.2	534.1	525.5	516.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	574.2	576.1	578.0	579.8	582.3	585.1	588.0	590.9	593.8	594.0	594.1
115°	663.6	665.2	666.8	668.4	670.3	672.7	675.0	677.4	679.8	682.4	685.1
117.5°	750.9	752.8	754.8	756.8	758.4	759.5	760.7	761.9	763.2	765.2	767.4
120°	805.3	807.7	810.1	812.5	814.0	814.8	815.6	816.3	817.1	819.3	821.4
122.5°	859.8	861.8	863.7	865.7	867.2	868.2	869.2	870.1	871.2	872.7	874.1
125°	935.3	937.5	939.5	941.7	943.3	944.3	945.3	946.4	947.5	948.0	948.5
127.5°	1008.3	1010.4	1012.5	1014.6	1016.3	1017.6	1018.8	1020.1	1021.4	1022.2	1023.0
130°	1053.8	1055.9	1058.0	1060.1	1061.7	1062.7	1063.7	1064.9	1065.9	1066.9	1067.9
132.5°	1097.3	1099.5	1101.5	1103.7	1105.2	1106.0	1106.8	1107.6	1108.5	1109.5	1110.6
135°	1163.4	1165.0	1166.6	1168.2	1169.4	1170.4	1171.6	1172.6	1173.6	1174.4	1175.2
137.5°	1220.7	1222.7	1224.6	1226.6	1228.0	1228.5	1229.1	1229.7	1230.3	1231.5	1232.8
140°	1258.1	1259.7	1261.3	1262.9	1264.0	1264.8	1265.6	1266.4	1267.2	1268.3	1269.3
142.5°	1293.2	1294.7	1296.3	1297.9	1299.1	1299.9	1300.7	1301.5	1302.3	1303.1	1303.9
145°	1342.4	1344.3	1346.2	1348.0	1349.2	1349.7	1350.2	1350.8	1351.3	1351.8	1352.3
147.5°	1388.1	1389.3	1390.4	1391.6	1392.5	1393.1	1393.6	1394.1	1394.6	1395.2	1395.7
150°	1416.0	1416.8	1417.6	1418.4	1419.0	1419.6	1420.1	1420.6	1421.2	1421.7	1422.2
152.5°	1441.2	1441.5	1441.9	1442.3	1442.6	1443.0	1443.3	1443.6	1443.9	1444.9	1445.8
155°	1476.3	1475.8	1475.3	1474.7	1474.6	1474.9	1475.1	1475.4	1475.6	1476.9	1478.3
157.5°	1504.8	1504.7	1504.6	1504.6	1504.4	1504.1	1503.9	1503.6	1503.3	1504.9	1506.5
160°	1521.5	1521.3	1521.1	1520.8	1520.5	1520.3	1520.0	1519.7	1519.5	1521.1	1522.7
162.5°	1537.2	1536.6	1535.9	1535.2	1534.7	1534.5	1534.2	1533.9	1533.7	1535.5	1537.2
165°	1556.6	1555.8	1555.0	1554.2	1553.7	1553.4	1553.2	1552.9	1552.6	1554.7	1556.8
167.5°	1571.5	1570.4	1569.4	1568.3	1567.8	1567.8	1567.8	1567.8	1567.8	1569.9	1572.0
170°	1580.0	1578.9	1577.9	1576.8	1576.3	1576.3	1576.3	1576.3	1576.3	1578.4	1580.5
172.5°	1585.5	1584.2	1582.9	1581.7	1581.1	1581.4	1581.6	1581.8	1582.0	1584.1	1586.2
175°	1592.8	1591.4	1590.1	1588.8	1588.2	1588.6	1588.8	1589.0	1589.4	1591.2	1593.0
177.5°	1594.9	1593.9	1592.8	1591.7	1591.3	1591.6	1591.7	1592.0	1592.2	1593.9	1595.5
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1352.3	1352.7	1358.3	1362.2	1360.3	1362.7	1363.7
5°	1477.4	1499.8	1511.6	1520.4	1521.0	1521.6	1526.6
7.5°	1654.9	1678.9	1696.5	1723.1	1731.1	1740.1	1737.5
10°	1784.4	1819.8	1850.4	1866.5	1884.0	1909.5	1889.0
12.5°	1905.4	1968.3	2014.7	2039.9	2056.3	2061.4	2051.4
15°	2105.0	2187.1	2231.3	2230.2	2286.2	2310.5	2272.5
17.5°	2288.1	2363.9	2424.6	2455.8	2502.4	2512.8	2508.0
20°	2400.1	2482.9	2530.2	2583.8	2608.0	2629.8	2633.5
22.5°	2496.7	2571.0	2621.9	2666.4	2686.8	2697.1	2703.3
25°	2596.2	2654.8	2685.3	2700.8	2706.4	2705.1	2697.1
27.5°	2589.3	2593.8	2560.3	2527.2	2497.8	2464.5	2453.0
30°	2522.1	2469.8	2376.5	2323.5	2245.7	2184.0	2208.9
32.5°	2345.3	2241.2	2136.4	2020.7	1924.9	1897.7	1870.3
35°	2001.6	1818.6	1711.5	1587.0	1537.2	1487.4	1453.1
37.5°	1619.4	1477.8	1350.8	1269.3	1219.4	1187.9	1171.0
40°	1400.2	1272.6	1168.0	1102.0	1064.0	1028.5	1023.6
42.5°	1225.4	1106.8	1028.0	975.5	939.0	923.9	913.0
45°	1003.6	920.8	867.9	830.5	806.3	796.9	784.5
47.5°	849.5	790.9	751.2	725.8	707.5	700.5	699.6
50°	763.3	714.7	685.5	665.5	651.3	648.7	638.8
52.5°	698.5	656.5	633.7	616.2	605.9	599.0	596.0
55°	606.4	578.4	557.9	547.9	539.8	532.9	532.9
57.5°	530.6	507.2	493.6	485.1	482.6	477.8	474.7
60°	483.8	463.8	453.3	445.8	440.8	441.4	435.8
62.5°	437.9	425.0	414.9	407.4	401.5	401.6	402.0
65°	373.0	363.0	355.5	353.0	349.3	344.9	346.2
67.5°	316.0	306.7	300.9	296.6	295.3	293.0	296.6
70°	275.2	268.3	264.0	260.2	259.0	259.6	262.8
72.5°	237.8	233.0	230.1	228.4	225.6	225.8	227.8
75°	186.8	183.1	180.5	178.7	178.1	178.1	178.1
77.5°	137.2	136.3	135.2	132.5	132.6	133.3	133.5
80°	108.4	106.5	105.8	104.6	102.7	101.5	104.6
82.5°	81.0	79.1	78.4	78.2	75.3	75.1	77.7
85°	43.6	41.7	42.3	41.7	41.7	41.1	41.1
87.5°	21.8	21.5	21.2	21.7	21.3	20.9	22.0
90°	31.6	32.6	33.4	34.0	34.5	35.0	35.5
92.5°	35.4	37.1	38.0	38.3	38.7	39.0	39.3
95°	42.2	44.0	45.0	45.0	45.0	45.0	45.0
97.5°	44.4	46.6	47.8	48.0	48.2	48.6	48.8
100°	45.4	47.5	48.7	49.0	49.2	49.5	49.7
102.5°	58.4	51.8	48.8	49.3	49.7	50.2	50.7
105°	119.6	73.0	50.0	50.5	51.1	51.6	52.1
107.5°	372.9	338.7	304.1	269.0	233.9	198.8	163.7
110°	508.0	499.4	476.2	438.6	400.9	363.3	325.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	594.3	594.5	590.6	582.6	574.6	566.7	558.7
115°	687.7	690.3	692.1	693.2	694.3	695.3	696.4
117.5°	769.4	771.6	772.8	772.9	773.2	773.4	773.6
120°	823.5	825.6	826.6	826.6	826.6	826.6	826.6
122.5°	875.6	877.1	877.9	878.1	878.3	878.5	878.8
125°	949.0	949.5	950.1	950.6	951.1	951.6	952.2
127.5°	1023.9	1024.7	1024.8	1024.4	1023.8	1023.3	1022.8
130°	1069.1	1070.1	1070.3	1069.8	1069.3	1068.7	1068.3
132.5°	1111.7	1112.7	1112.9	1112.1	1111.4	1110.6	1109.9
135°	1176.0	1176.8	1176.8	1176.0	1175.2	1174.4	1173.6
137.5°	1234.1	1235.3	1235.6	1235.2	1234.6	1234.1	1233.6
140°	1270.3	1271.4	1271.7	1271.1	1270.7	1270.1	1269.6
142.5°	1304.8	1305.6	1305.7	1305.0	1304.2	1303.5	1302.7
145°	1352.9	1353.4	1353.7	1353.7	1353.7	1353.7	1353.7
147.5°	1396.2	1396.8	1396.4	1395.2	1394.0	1392.7	1391.5
150°	1422.8	1423.2	1423.2	1422.4	1421.6	1420.8	1420.0
152.5°	1446.8	1447.7	1447.6	1446.4	1445.1	1443.9	1442.7
155°	1479.6	1480.9	1480.7	1479.2	1477.6	1476.0	1474.5
157.5°	1508.1	1509.7	1509.4	1507.4	1505.3	1503.2	1501.2
160°	1524.2	1525.7	1525.7	1523.8	1521.9	1520.1	1518.3
162.5°	1539.1	1540.8	1540.9	1539.3	1537.6	1536.0	1534.4
165°	1558.9	1561.1	1561.2	1559.3	1557.5	1555.6	1553.8
167.5°	1574.1	1576.2	1576.2	1574.1	1572.0	1569.9	1567.8
170°	1582.6	1584.8	1584.8	1582.6	1580.5	1578.4	1576.3
172.5°	1588.3	1590.4	1590.3	1588.0	1585.7	1583.3	1581.0
175°	1594.8	1596.7	1596.6	1594.4	1592.4	1590.2	1588.2
177.5°	1597.2	1598.9	1598.7	1596.6	1594.5	1592.4	1590.3
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0

(END OF REPORT)