

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: P333111-927

Luminaire Tested: **S124RDIW-S1195D1560U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333111-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIW-S1195D1560U927-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1560 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

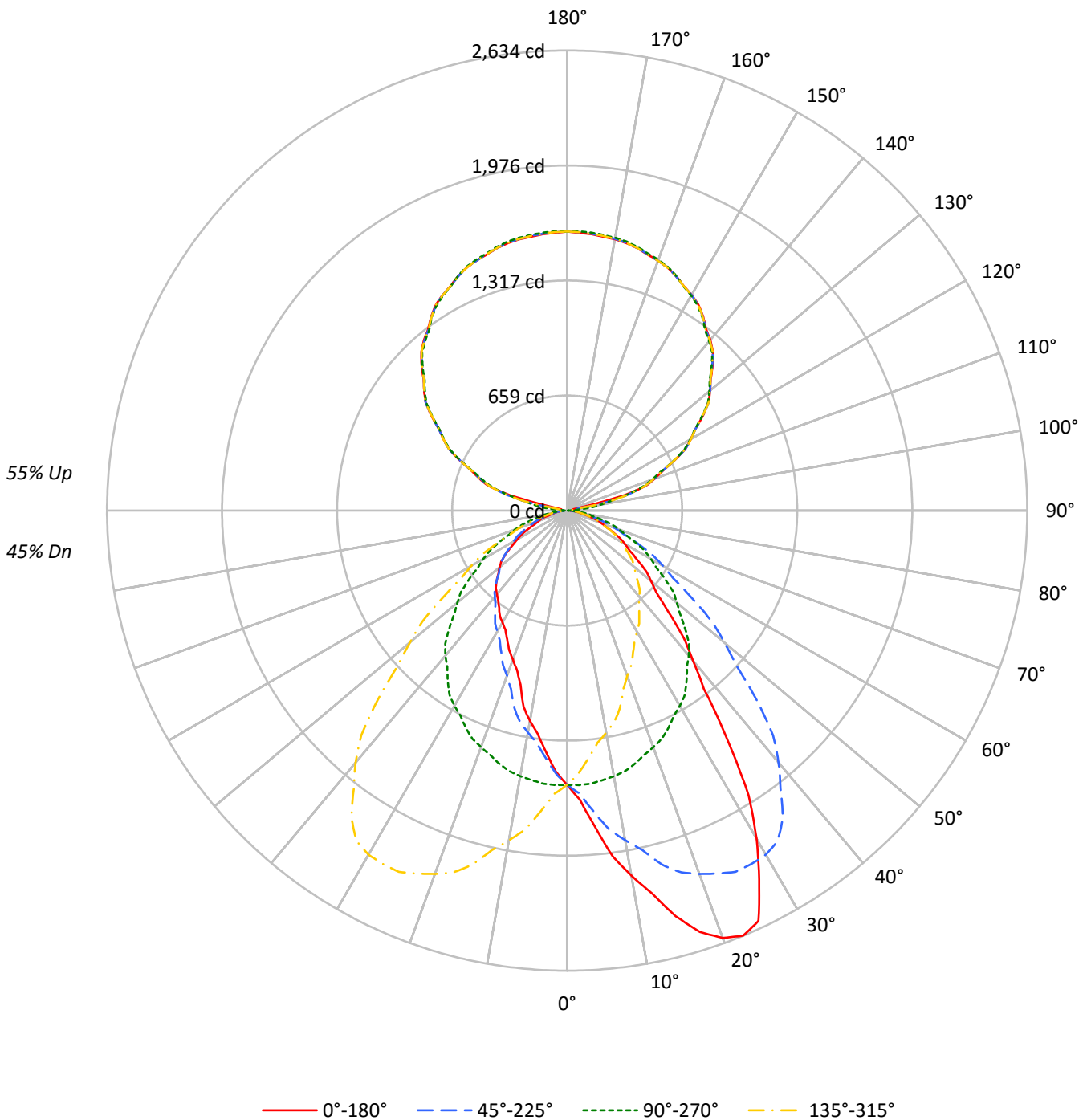
Lumens per Lamp: N/A  
Luminaire Lumens: 8913.5 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (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	45				
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38				
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33				
3	81	72	65	59	74	66	60	55	56	51	47	46	42	40	36	34	32	28				
4	74	64	56	50	68	59	52	47	50	45	41	41	37	34	33	30	28	25				
5	68	57	49	43	62	53	46	41	45	39	35	37	33	30	30	27	25	22				
6	63	51	43	38	58	47	40	35	40	35	31	33	29	26	27	24	22	19				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	25	22	20	17				
8	54	42	35	29	50	39	32	28	33	28	24	28	24	21	23	20	18	15				
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

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

	0°	90°	180°	270°
0°	12674	12674	12674	12674
5°	14699	12712	11235	12712
10°	17390	12656	10027	12656
15°	20088	12538	8616	12538
20°	22365	12378	7792	12378
25°	23087	12219	7234	12219
30°	20211	12028	6898	12028
35°	15733	11744	6695	11744
40°	11798	11418	6585	11418
45°	9315	10896	6528	10896
50°	7863	10295	6339	10295
55°	6854	9633	6000	9633
60°	6168	8946	5310	8946
65°	5436	8202	4567	8202
70°	4898	7435	4121	7435
75°	4105	6591	3512	6591
80°	3468	5616	3292	5616
85°	2927	4400	2927	4400



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.1	1.7
10°-20°	458.8	5.1
20°-30°	717.6	8.1
30°-40°	797.8	9.0
40°-50°	707.8	7.9
50°-60°	551.5	6.2
60°-70°	361.1	4.1
70°-80°	177.6	2.0
80°-90°	48.4	0.5
90°-100°	54.6	0.6
100°-110°	348.3	3.9
110°-120°	666.3	7.5
120°-130°	845.9	9.5
130°-140°	905.0	10.2
140°-150°	846.3	9.5
150°-160°	682.5	7.7
160°-170°	440.2	4.9
170°-180°	151.7	1.7
0°-30°	1328.5	14.9
0°-40°	2126.3	23.9
0°-60°	3385.7	38.0
0°-90°	3972.8	44.6
90°-120°	1069.3	12.0
90°-150°	3666.4	41.1
90°-180°	4941.0	55.4
0°-180°	8913.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1570	1570	1570	1570	1570	
5°	1814	1569	1386	1569	1814	183
15°	2404	1500	1031	1500	2404	683
25°	2592	1372	812	1372	2592	1150
35°	1596	1192	679	1192	1596	1001
45°	816	954	572	954	816	646
55°	487	684	426	684	487	443
65°	285	429	239	429	285	286
75°	132	211	113	211	132	145
85°	32	48	32	48	32	37
90°	36	4	36	4	36	17
95°	35	66	35	66	35	28
105°	340	360	340	360	340	297
115°	676	671	676	671	676	669
125°	951	944	951	944	951	847
135°	1179	1171	1179	1171	1179	908
145°	1357	1350	1357	1350	1357	848
155°	1479	1480	1479	1480	1479	682
165°	1554	1561	1554	1561	1554	439
175°	1588	1597	1588	1597	1588	151
180°	1597	1597	1597	1597	1597	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1655.8	1660.4	1655.8	1655.3	1650.3	1648.8	1646.7	1640.1	1628.0	1621.0	1622.5
5°	1813.9	1829.8	1820.9	1819.6	1805.8	1791.8	1783.0	1762.8	1741.2	1726.7	1714.7
7.5°	1996.9	2006.0	2000.4	1991.5	1969.0	1956.3	1935.8	1909.1	1870.5	1841.0	1814.1
10°	2121.4	2128.9	2126.5	2110.0	2093.5	2060.0	2041.1	2003.7	1955.0	1916.4	1880.4
12.5°	2243.8	2251.9	2229.7	2230.4	2199.3	2172.9	2142.8	2095.8	2039.6	1989.8	1944.6
15°	2403.5	2393.3	2393.3	2380.7	2345.9	2309.2	2278.2	2228.9	2158.1	2098.6	2036.0
17.5°	2528.4	2532.0	2526.7	2497.0	2469.6	2431.7	2374.9	2317.3	2251.5	2171.7	2107.7
20°	2603.3	2603.3	2597.6	2577.4	2542.0	2501.5	2440.2	2377.5	2294.0	2213.7	2141.6
22.5°	2633.7	2635.7	2629.0	2612.3	2580.5	2540.9	2488.7	2425.1	2339.1	2248.6	2159.3
25°	2591.9	2604.0	2605.2	2600.8	2591.3	2567.2	2522.4	2457.2	2380.0	2282.0	2185.9
27.5°	2379.6	2394.8	2408.2	2430.0	2459.1	2474.3	2476.3	2443.2	2375.8	2281.5	2184.8
30°	2168.1	2180.8	2221.9	2275.7	2317.5	2355.4	2388.3	2397.1	2359.2	2274.4	2172.6
32.5°	1933.4	1950.6	1991.7	2049.5	2119.1	2183.3	2257.2	2294.9	2293.9	2243.1	2148.8
35°	1596.4	1609.1	1647.0	1707.7	1791.2	1886.7	2003.7	2094.8	2156.8	2152.4	2094.8
37.5°	1287.5	1301.8	1340.1	1390.4	1471.4	1589.7	1702.9	1828.4	1943.0	2007.4	1988.1
40°	1119.5	1120.1	1157.5	1209.3	1285.2	1388.3	1511.6	1650.7	1778.5	1882.9	1903.1
42.5°	986.9	987.1	1011.7	1067.6	1122.3	1219.3	1337.0	1475.2	1624.8	1745.3	1798.9
45°	815.9	821.6	841.9	875.4	918.4	1000.6	1094.8	1223.2	1390.8	1533.7	1622.9
47.5°	690.9	699.3	712.2	739.5	773.8	828.5	906.5	1021.8	1158.2	1315.4	1442.3
50°	626.1	627.4	643.9	659.0	688.8	732.5	800.7	896.8	1022.1	1173.2	1314.3
52.5°	570.5	570.2	580.1	599.4	623.5	657.5	712.6	800.2	911.2	1046.8	1192.4
55°	487.0	490.2	497.7	512.9	531.3	555.3	599.0	664.7	752.0	867.8	1000.0
57.5°	423.5	425.2	431.1	437.5	454.4	471.8	504.6	550.2	623.9	718.7	841.9
60°	382.0	382.6	384.5	394.0	407.3	423.7	445.9	484.5	546.4	633.1	730.6
62.5°	341.5	342.7	345.6	352.5	362.8	374.1	397.4	428.3	479.7	553.7	641.4
65°	284.6	285.3	289.7	292.2	300.4	310.5	327.6	348.5	383.9	445.9	512.3
67.5°	237.8	237.8	238.1	241.5	247.2	253.9	264.1	280.8	307.5	345.6	404.2
70°	207.5	207.5	208.7	210.6	213.8	219.4	225.1	237.8	257.5	288.4	333.4
72.5°	179.1	179.6	180.9	181.3	182.9	187.6	191.8	199.9	214.4	237.8	274.1
75°	131.6	133.5	136.7	139.2	142.3	141.6	146.1	151.1	155.6	169.5	190.4
77.5°	97.9	96.9	97.3	99.4	99.8	100.4	103.6	107.5	110.8	117.4	124.8
80°	74.6	74.6	76.5	77.2	76.5	77.2	80.3	82.2	83.5	86.0	93.0
82.5°	56.4	57.4	56.8	57.4	57.8	58.5	61.1	61.5	62.7	63.8	66.7
85°	31.6	32.2	32.9	31.6	31.6	31.6	32.9	33.5	34.8	34.1	35.4
87.5°	18.3	17.7	18.1	18.0	18.4	17.7	17.8	18.5	17.2	17.4	17.0
90°	35.8	35.3	34.8	34.2	33.7	32.6	31.1	29.5	27.9	26.3	24.2
92.5°	33.0	32.9	32.8	32.6	32.6	31.7	30.1	28.5	26.9	25.3	23.2
95°	34.6	34.4	34.1	33.8	33.6	32.6	31.1	29.5	27.9	26.3	26.0
97.5°	33.4	33.2	33.0	32.6	32.4	32.2	32.0	31.8	31.7	31.5	61.2
100°	33.4	33.2	33.0	32.6	32.4	34.5	39.1	43.6	48.1	52.6	89.2
102.5°	34.4	34.4	34.3	34.2	34.2	58.5	107.2	155.9	204.5	253.3	258.0
105°	340.5	350.1	359.6	369.2	378.7	382.3	379.9	377.5	375.1	372.7	371.4
107.5°	474.5	473.5	472.5	471.5	470.5	469.4	468.3	467.1	465.9	464.7	462.9
110°	532.8	532.0	531.2	530.4	529.7	528.9	528.5	527.9	527.4	526.8	525.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	591.1	590.1	589.1	588.1	587.1	586.6	586.7	586.8	586.9	587.1	586.3
115°	676.2	676.2	676.2	676.2	676.2	675.9	675.3	674.9	674.3	673.8	674.1
117.5°	762.6	762.8	762.9	763.0	763.1	763.2	763.3	763.4	763.5	763.6	763.0
120°	817.1	817.7	818.2	818.7	819.3	819.3	818.7	818.2	817.7	817.1	817.4
122.5°	870.7	871.2	871.7	872.3	872.7	872.9	872.6	872.3	872.0	871.6	871.2
125°	950.9	950.7	950.4	950.1	949.9	949.4	948.6	947.8	947.0	946.2	946.7
127.5°	1021.4	1021.6	1021.8	1022.1	1022.2	1022.5	1022.6	1022.8	1022.9	1023.1	1021.8
130°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.1	1068.8	1068.6	1068.3	1068.0	1067.2
132.5°	1113.2	1113.4	1113.6	1113.8	1114.0	1114.0	1113.7	1113.5	1113.2	1112.9	1111.9
135°	1179.1	1178.6	1178.1	1177.5	1177.0	1176.5	1175.9	1175.4	1174.9	1174.3	1173.3
137.5°	1235.5	1235.6	1235.8	1236.0	1236.1	1236.0	1235.3	1234.8	1234.1	1233.6	1232.4
140°	1274.7	1274.4	1274.1	1273.9	1273.6	1273.1	1272.3	1271.5	1270.7	1269.9	1269.4
142.5°	1307.2	1307.1	1307.1	1307.0	1306.9	1306.6	1306.1	1305.5	1304.9	1304.3	1304.0
145°	1357.1	1356.6	1356.1	1355.5	1355.0	1354.6	1354.3	1354.1	1353.8	1353.5	1353.5
147.5°	1398.4	1398.2	1397.9	1397.6	1397.4	1397.2	1396.9	1396.7	1396.5	1396.3	1396.5
150°	1425.2	1425.0	1424.7	1424.4	1424.2	1424.0	1424.0	1424.0	1424.0	1424.0	1424.3
152.5°	1448.1	1448.3	1448.4	1448.6	1448.7	1448.7	1448.2	1447.8	1447.4	1446.9	1447.4
155°	1479.0	1479.8	1480.6	1481.4	1482.2	1482.0	1481.0	1479.9	1478.8	1477.7	1478.6
157.5°	1504.8	1506.2	1507.5	1508.9	1510.3	1510.3	1508.9	1507.5	1506.2	1504.8	1505.7
160°	1521.9	1523.6	1525.2	1526.8	1528.4	1528.4	1526.8	1525.2	1523.6	1521.9	1522.3
162.5°	1535.3	1537.2	1539.0	1540.8	1542.5	1542.7	1541.1	1539.5	1537.9	1536.3	1536.6
165°	1554.3	1556.6	1559.0	1561.4	1563.8	1563.9	1561.8	1559.6	1557.5	1555.4	1555.4
167.5°	1568.4	1571.0	1573.7	1576.3	1579.0	1579.1	1576.8	1574.5	1572.1	1569.8	1569.9
170°	1576.9	1579.6	1582.2	1584.9	1587.5	1587.9	1585.7	1583.6	1581.4	1579.3	1579.1
172.5°	1581.7	1584.6	1587.5	1590.3	1593.2	1593.6	1591.4	1589.3	1587.1	1585.1	1584.8
175°	1587.7	1590.9	1594.0	1597.2	1600.4	1600.8	1598.5	1596.0	1593.6	1591.3	1591.0
177.5°	1591.5	1594.0	1596.6	1599.2	1601.7	1602.1	1600.4	1598.7	1597.0	1595.3	1594.9
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1617.4	1610.3	1606.8	1598.7	1589.0	1584.0	1579.5	1572.9	1564.2	1555.1	1548.6
5°	1699.5	1684.3	1665.3	1642.6	1622.3	1602.7	1585.6	1568.6	1549.0	1528.8	1508.5
7.5°	1783.8	1753.9	1721.6	1684.3	1648.0	1615.0	1584.6	1555.5	1522.7	1493.2	1466.3
10°	1842.5	1802.0	1757.1	1709.6	1662.2	1621.0	1580.6	1543.9	1503.4	1467.4	1437.0
12.5°	1890.0	1842.5	1788.4	1729.3	1672.3	1622.5	1576.0	1528.2	1482.2	1443.1	1402.6
15°	1968.9	1903.8	1831.1	1760.2	1686.2	1618.5	1555.9	1500.2	1447.8	1392.7	1354.2
17.5°	2023.2	1945.9	1857.5	1772.3	1685.0	1605.1	1532.9	1466.6	1406.0	1349.9	1303.9
20°	2055.6	1970.2	1872.2	1775.4	1677.4	1592.0	1514.2	1440.8	1378.2	1317.5	1270.0
22.5°	2073.8	1979.3	1872.2	1770.8	1669.3	1576.8	1491.4	1415.0	1346.8	1286.1	1233.6
25°	2079.6	1978.4	1869.0	1752.6	1641.3	1543.3	1454.7	1371.8	1295.9	1235.2	1179.6
27.5°	2071.6	1952.3	1840.3	1720.9	1606.0	1502.7	1409.7	1322.6	1246.7	1181.5	1124.4
30°	2059.4	1931.6	1811.4	1687.5	1571.1	1471.8	1373.7	1290.3	1211.2	1143.5	1086.0
32.5°	2033.1	1906.3	1777.0	1650.0	1532.2	1429.8	1336.8	1252.8	1175.3	1106.1	1045.0
35°	1980.9	1852.5	1712.1	1581.8	1466.1	1359.9	1272.6	1191.6	1117.6	1043.6	979.1
37.5°	1912.2	1781.1	1641.4	1498.7	1382.8	1282.5	1202.5	1126.5	1054.2	986.7	915.2
40°	1847.5	1728.0	1583.7	1442.1	1323.2	1226.4	1152.4	1083.5	1010.7	943.6	872.2
42.5°	1769.1	1667.2	1521.5	1379.3	1261.9	1168.7	1099.8	1032.4	966.2	901.2	826.6
45°	1638.2	1561.0	1424.3	1287.8	1169.5	1077.1	1013.9	954.4	896.2	834.2	764.1
47.5°	1488.1	1435.8	1318.0	1178.1	1068.7	985.6	924.5	875.8	826.6	764.7	703.1
50°	1383.9	1350.4	1236.5	1108.7	1004.4	927.9	865.2	819.7	778.6	719.1	664.1
52.5°	1272.6	1254.7	1158.6	1036.4	935.6	860.5	807.1	766.0	724.5	675.1	623.6
55°	1103.0	1112.5	1030.9	925.3	830.4	767.2	718.5	684.4	649.0	607.2	567.4
57.5°	929.8	964.4	909.7	816.9	728.0	669.6	632.9	604.1	574.4	539.8	505.7
60°	826.0	855.1	824.1	742.5	664.7	610.4	576.2	554.1	524.3	492.7	466.8
62.5°	724.8	756.0	737.6	671.7	599.4	552.7	522.5	501.9	479.8	452.3	425.3
65°	597.7	617.9	609.1	563.6	512.3	472.5	444.7	429.4	409.2	389.0	365.0
67.5°	457.8	496.9	491.7	467.5	423.3	392.1	373.9	360.5	342.1	327.0	310.7
70°	376.4	412.4	411.8	392.1	368.1	339.0	326.4	315.0	298.5	284.0	270.7
72.5°	308.0	341.0	345.9	330.9	314.5	292.5	280.4	272.5	256.5	246.5	235.8
75°	215.7	239.7	246.1	246.1	238.4	227.0	216.3	211.3	199.9	191.0	184.7
77.5°	141.4	156.6	166.4	168.7	169.9	166.1	157.2	153.7	145.0	141.8	135.7
80°	99.9	110.0	121.4	125.2	128.4	127.1	123.3	120.8	112.6	109.4	106.9
82.5°	69.1	74.6	84.0	92.4	91.4	94.7	91.4	89.4	83.3	82.1	79.5
85°	36.0	36.7	37.9	43.6	46.8	48.1	48.7	47.5	45.6	45.6	41.1
87.5°	16.6	15.6	16.2	15.7	15.6	17.0	18.0	17.9	17.0	16.1	15.1
90°	22.0	19.9	17.8	15.3	12.4	9.4	6.5	3.6	6.5	9.4	12.4
92.5°	21.1	18.9	16.8	15.7	15.5	15.4	15.2	15.1	15.2	15.4	15.5
95°	25.7	25.5	25.2	29.6	38.7	47.7	56.6	65.7	56.6	47.7	38.7
97.5°	90.8	120.4	150.0	162.1	156.5	150.8	145.1	139.5	145.1	150.8	156.5
100°	125.8	162.5	199.1	215.0	210.2	205.5	200.7	195.9	200.7	205.5	210.2
102.5°	262.8	267.6	272.4	273.0	269.5	266.0	262.5	259.0	262.5	266.0	269.5
105°	370.1	368.8	367.4	366.0	364.4	362.7	361.2	359.6	361.2	362.7	364.4
107.5°	461.1	459.3	457.5	456.2	455.4	454.6	453.8	453.0	453.8	454.6	455.4
110°	523.6	522.0	520.5	519.3	518.5	517.7	516.9	516.1	516.9	517.7	518.5





TEST NUMBER: P333111-927

CATALOG NUMBER: S124RDIW-S1195D1560U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	585.6	584.8	584.1	583.0	581.5	580.1	578.7	577.3	578.7	580.1	581.5
115°	674.3	674.5	674.9	674.5	673.8	673.0	672.2	671.4	672.2	673.0	673.8
117.5°	762.5	761.8	761.3	760.5	759.4	758.4	757.2	756.2	757.2	758.4	759.4
120°	817.7	817.9	818.2	817.8	816.7	815.7	814.6	813.6	814.6	815.7	816.7
122.5°	870.8	870.5	870.1	869.7	868.9	868.3	867.7	867.0	867.7	868.3	868.9
125°	947.2	947.8	948.2	948.0	947.0	945.9	944.8	943.8	944.8	945.9	947.0
127.5°	1020.6	1019.5	1018.2	1017.5	1017.2	1016.9	1016.7	1016.4	1016.7	1016.9	1017.2
130°	1066.4	1065.6	1064.9	1064.3	1064.1	1063.7	1063.5	1063.3	1063.5	1063.7	1064.1
132.5°	1110.9	1109.9	1108.9	1108.2	1107.7	1107.2	1106.7	1106.2	1106.7	1107.2	1107.7
135°	1172.2	1171.2	1170.1	1169.7	1170.0	1170.2	1170.4	1170.8	1170.4	1170.2	1170.0
137.5°	1231.3	1230.1	1228.9	1228.3	1228.2	1228.0	1228.0	1227.9	1228.0	1228.0	1228.2
140°	1268.8	1268.3	1267.8	1267.3	1266.7	1266.2	1265.7	1265.1	1265.7	1266.2	1266.7
142.5°	1303.7	1303.4	1303.1	1302.4	1301.5	1300.5	1299.5	1298.5	1299.5	1300.5	1301.5
145°	1353.5	1353.5	1353.5	1353.1	1352.3	1351.5	1350.8	1350.0	1350.8	1351.5	1352.3
147.5°	1396.9	1397.1	1397.3	1396.8	1395.3	1393.8	1392.3	1390.8	1392.3	1393.8	1395.3
150°	1424.6	1424.8	1425.1	1424.7	1423.6	1422.5	1421.5	1420.5	1421.5	1422.5	1423.6
152.5°	1447.9	1448.3	1448.9	1448.7	1447.8	1447.0	1446.1	1445.3	1446.1	1447.0	1447.8
155°	1479.4	1480.2	1481.0	1481.2	1481.0	1480.7	1480.4	1480.2	1480.4	1480.7	1481.0
157.5°	1506.6	1507.4	1508.4	1508.9	1509.1	1509.3	1509.4	1509.6	1509.4	1509.3	1509.1
160°	1522.5	1522.7	1523.0	1523.6	1524.4	1525.2	1526.0	1526.8	1526.0	1525.2	1524.4
162.5°	1536.8	1537.1	1537.4	1538.0	1539.1	1540.0	1541.0	1542.1	1541.0	1540.0	1539.1
165°	1555.4	1555.4	1555.4	1556.1	1557.4	1558.8	1560.0	1561.4	1560.0	1558.8	1557.4
167.5°	1570.1	1570.3	1570.4	1571.1	1572.6	1573.9	1575.3	1576.7	1575.3	1573.9	1572.6
170°	1578.8	1578.5	1578.3	1578.9	1580.5	1582.1	1583.7	1585.3	1583.7	1582.1	1580.5
172.5°	1584.5	1584.3	1584.0	1584.7	1586.3	1587.9	1589.4	1591.0	1589.4	1587.9	1586.3
175°	1590.7	1590.5	1590.2	1590.9	1592.4	1594.0	1595.6	1597.2	1595.6	1594.0	1592.4
177.5°	1594.5	1594.0	1593.6	1594.2	1595.6	1597.1	1598.6	1600.1	1598.6	1597.1	1595.6
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



TEST NUMBER: P333111-927

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1541.5	1536.4	1529.9	1522.3	1513.1	1505.1	1501.5	1504.6	1506.1	1502.1	1501.5
5°	1494.5	1478.8	1466.1	1447.2	1431.9	1419.3	1410.5	1406.7	1407.9	1397.8	1395.3
7.5°	1441.9	1423.1	1402.3	1379.8	1358.8	1340.2	1330.5	1325.2	1314.5	1309.9	1302.2
10°	1407.9	1382.6	1362.4	1335.8	1311.8	1289.7	1278.9	1270.0	1259.3	1254.2	1243.5
12.5°	1373.0	1343.6	1321.4	1293.8	1269.2	1242.6	1232.3	1215.9	1199.0	1188.4	1174.6
15°	1323.8	1288.4	1261.2	1228.3	1199.2	1168.9	1141.6	1111.3	1099.9	1075.9	1061.9
17.5°	1266.2	1230.3	1196.7	1152.5	1107.6	1069.9	1040.9	1011.9	994.4	979.1	972.0
20°	1228.3	1195.4	1148.6	1097.3	1047.4	1005.7	982.2	963.3	944.3	933.6	926.0
22.5°	1192.4	1150.3	1096.0	1040.7	990.7	958.1	938.3	918.8	903.3	893.1	883.0
25°	1132.2	1077.1	1019.5	956.3	922.2	893.7	872.2	856.3	846.9	833.6	828.5
27.5°	1070.3	1003.6	940.2	897.6	862.1	836.0	817.3	805.4	793.4	784.9	778.3
30°	1022.7	955.1	898.1	857.6	821.6	800.1	784.9	771.0	761.5	754.6	749.5
32.5°	975.7	908.0	860.2	816.7	788.2	767.2	751.0	740.6	733.2	724.2	721.1
35°	907.6	847.6	805.8	766.6	737.4	718.5	705.8	695.1	688.8	686.3	684.4
37.5°	842.2	793.0	748.1	716.0	690.1	675.1	660.2	654.9	650.5	646.0	648.1
40°	800.7	754.6	714.7	680.6	659.7	643.3	634.4	628.0	624.2	624.2	624.2
42.5°	764.8	719.6	680.8	650.2	629.3	615.4	605.5	600.2	599.0	598.5	601.5
45°	709.0	667.3	628.0	602.8	585.0	571.2	565.5	561.0	561.0	563.6	564.2
47.5°	653.7	614.7	583.1	554.8	538.6	529.9	525.0	522.7	522.9	525.5	528.4
50°	619.8	581.2	550.2	525.0	509.8	501.5	497.1	495.9	497.1	497.1	501.5
52.5°	582.9	548.3	517.8	496.6	479.4	471.7	469.3	467.5	468.3	470.3	472.2
55°	528.8	497.7	468.7	448.5	435.8	430.7	425.0	425.6	424.4	425.6	425.6
57.5°	474.5	446.6	419.6	403.5	392.4	385.1	378.8	380.6	378.7	378.5	377.5
60°	439.6	409.2	387.7	373.2	360.5	354.2	348.5	349.7	347.8	346.6	344.0
62.5°	401.6	376.4	355.8	341.8	331.7	324.3	318.6	317.3	313.0	308.6	303.1
65°	346.6	325.7	307.4	294.1	284.6	278.9	274.5	270.7	261.2	251.1	246.1
67.5°	293.1	278.1	260.9	249.7	242.0	234.6	226.1	219.6	210.7	205.2	202.0
70°	258.6	244.2	229.6	218.8	210.6	203.7	194.2	189.7	183.4	180.9	177.8
72.5°	225.8	212.2	198.8	189.0	180.2	174.8	167.4	163.0	160.2	159.1	156.0
75°	175.9	165.1	155.0	146.1	139.2	135.4	132.2	129.0	127.8	122.1	118.9
77.5°	128.3	121.2	114.9	108.5	103.6	101.1	95.0	91.3	89.2	86.5	85.9
80°	99.9	94.9	88.6	84.8	77.8	75.3	72.7	72.1	71.5	70.8	70.2
82.5°	75.2	70.1	63.8	61.5	59.6	58.1	56.6	55.9	55.3	55.7	55.5
85°	37.9	35.4	35.4	34.8	34.1	33.5	32.9	32.9	32.2	32.9	32.2
87.5°	15.7	15.7	16.2	15.5	16.5	16.9	16.7	17.0	17.8	17.2	17.3
90°	15.3	17.8	19.9	22.0	24.2	26.3	27.9	29.5	31.1	32.6	33.7
92.5°	15.7	16.8	18.9	21.1	23.2	25.3	26.9	28.5	30.1	31.7	32.6
95°	29.6	25.2	25.5	25.7	26.0	26.3	27.9	29.5	31.1	32.6	33.6
97.5°	162.1	150.0	120.4	90.8	61.2	31.5	31.7	31.8	32.0	32.2	32.4
100°	215.0	199.1	162.5	125.8	89.2	52.6	48.1	43.6	39.1	34.5	32.4
102.5°	273.0	272.4	267.6	262.8	258.0	253.3	204.5	155.9	107.2	58.5	34.2
105°	366.0	367.4	368.8	370.1	371.4	372.7	375.1	377.5	379.9	382.3	378.7
107.5°	456.2	457.5	459.3	461.1	462.9	464.7	465.9	467.1	468.3	469.4	470.5
110°	519.3	520.5	522.0	523.6	525.2	526.8	527.4	527.9	528.5	528.9	529.7



TEST NUMBER: P333111-927

CATALOG NUMBER: S124RDIW-S1195D1560U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	583.0	584.1	584.8	585.6	586.3	587.1	586.9	586.8	586.7	586.6	587.1
115°	674.5	674.9	674.5	674.3	674.1	673.8	674.3	674.9	675.3	675.9	676.2
117.5°	760.5	761.3	761.8	762.5	763.0	763.6	763.5	763.4	763.3	763.2	763.1
120°	817.8	818.2	817.9	817.7	817.4	817.1	817.7	818.2	818.7	819.3	819.3
122.5°	869.7	870.1	870.5	870.8	871.2	871.6	872.0	872.3	872.6	872.9	872.7
125°	948.0	948.2	947.8	947.2	946.7	946.2	947.0	947.8	948.6	949.4	949.9
127.5°	1017.5	1018.2	1019.5	1020.6	1021.8	1023.1	1022.9	1022.8	1022.6	1022.5	1022.2
130°	1064.3	1064.9	1065.6	1066.4	1067.2	1068.0	1068.3	1068.6	1068.8	1069.1	1069.2
132.5°	1108.2	1108.9	1109.9	1110.9	1111.9	1112.9	1113.2	1113.5	1113.7	1114.0	1114.0
135°	1169.7	1170.1	1171.2	1172.2	1173.3	1174.3	1174.9	1175.4	1175.9	1176.5	1177.0
137.5°	1228.3	1228.9	1230.1	1231.3	1232.4	1233.6	1234.1	1234.8	1235.3	1236.0	1236.1
140°	1267.3	1267.8	1268.3	1268.8	1269.4	1269.9	1270.7	1271.5	1272.3	1273.1	1273.6
142.5°	1302.4	1303.1	1303.4	1303.7	1304.0	1304.3	1304.9	1305.5	1306.1	1306.6	1306.9
145°	1353.1	1353.5	1353.5	1353.5	1353.5	1353.5	1353.8	1354.1	1354.3	1354.6	1355.0
147.5°	1396.8	1397.3	1397.1	1396.9	1396.5	1396.3	1396.5	1396.7	1396.9	1397.2	1397.4
150°	1424.7	1425.1	1424.8	1424.6	1424.3	1424.0	1424.0	1424.0	1424.0	1424.0	1424.2
152.5°	1448.7	1448.9	1448.3	1447.9	1447.4	1446.9	1447.4	1447.8	1448.2	1448.7	1448.7
155°	1481.2	1481.0	1480.2	1479.4	1478.6	1477.7	1478.8	1479.9	1481.0	1482.0	1482.2
157.5°	1508.9	1508.4	1507.4	1506.6	1505.7	1504.8	1506.2	1507.5	1508.9	1510.3	1510.3
160°	1523.6	1523.0	1522.7	1522.5	1522.3	1521.9	1523.6	1525.2	1526.8	1528.4	1528.4
162.5°	1538.0	1537.4	1537.1	1536.8	1536.6	1536.3	1537.9	1539.5	1541.1	1542.7	1542.5
165°	1556.1	1555.4	1555.4	1555.4	1555.4	1555.4	1557.5	1559.6	1561.8	1563.9	1563.8
167.5°	1571.1	1570.4	1570.3	1570.1	1569.9	1569.8	1572.1	1574.5	1576.8	1579.1	1579.0
170°	1578.9	1578.3	1578.5	1578.8	1579.1	1579.3	1581.4	1583.6	1585.7	1587.9	1587.5
172.5°	1584.7	1584.0	1584.3	1584.5	1584.8	1585.1	1587.1	1589.3	1591.4	1593.6	1593.2
175°	1590.9	1590.2	1590.5	1590.7	1591.0	1591.3	1593.6	1596.0	1598.5	1600.8	1600.4
177.5°	1594.2	1593.6	1594.0	1594.5	1594.9	1595.3	1597.0	1598.7	1600.4	1602.1	1601.7
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



TEST NUMBER: P333111-927

CATALOG NUMBER: S124RDIW-S1195D1560U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1498.5	1499.5	1496.0	1494.9	1496.0	1499.5	1498.5	1501.5	1502.1	1506.1	1504.6
5°	1390.2	1388.9	1385.8	1386.4	1385.8	1388.9	1390.2	1395.3	1397.8	1407.9	1406.7
7.5°	1297.6	1292.7	1294.0	1289.0	1294.0	1292.7	1297.6	1302.2	1309.9	1314.5	1325.2
10°	1241.0	1234.0	1228.3	1223.2	1228.3	1234.0	1241.0	1243.5	1254.2	1259.3	1270.0
12.5°	1163.6	1157.5	1149.9	1151.4	1149.9	1157.5	1163.6	1174.6	1188.4	1199.0	1215.9
15°	1053.7	1044.3	1029.0	1030.9	1029.0	1044.3	1053.7	1061.9	1075.9	1099.9	1111.3
17.5°	960.8	960.8	953.9	955.5	953.9	960.8	960.8	972.0	979.1	994.4	1011.9
20°	912.7	908.2	908.9	907.0	908.9	908.2	912.7	926.0	933.6	944.3	963.3
22.5°	879.2	873.9	869.4	865.5	869.4	873.9	879.2	883.0	893.1	903.3	918.8
25°	822.8	819.0	813.4	812.1	813.4	819.0	822.8	828.5	833.6	846.9	856.3
27.5°	773.2	772.5	770.2	767.3	770.2	772.5	773.2	778.3	784.9	793.4	805.4
30°	744.4	743.1	741.9	740.0	741.9	743.1	744.4	749.5	754.6	761.5	771.0
32.5°	718.7	717.9	716.6	716.8	716.6	717.9	718.7	721.1	724.2	733.2	740.6
35°	681.8	681.2	679.9	679.3	679.9	681.2	681.8	684.4	686.3	688.8	695.1
37.5°	647.5	649.0	648.3	648.2	648.3	649.0	647.5	648.1	646.0	650.5	654.9
40°	623.6	624.2	625.5	624.9	625.5	624.2	623.6	624.2	624.2	624.2	628.0
42.5°	603.9	604.0	605.8	603.6	605.8	604.0	603.9	601.5	598.5	599.0	600.2
45°	568.6	572.4	571.8	571.8	571.8	572.4	568.6	564.2	563.6	561.0	561.0
47.5°	530.0	533.3	534.2	534.1	534.2	533.3	530.0	528.4	525.5	522.9	522.7
50°	504.7	503.4	505.3	504.7	505.3	503.4	504.7	501.5	497.1	497.1	495.9
52.5°	473.9	474.1	474.0	473.3	474.0	474.1	473.9	472.2	470.3	468.3	467.5
55°	426.3	426.9	425.6	426.3	425.6	426.9	426.3	425.6	425.6	424.4	425.6
57.5°	374.7	371.6	372.9	371.4	372.9	371.6	374.7	377.5	378.5	378.7	380.6
60°	337.8	332.7	331.4	328.9	331.4	332.7	337.8	344.0	346.6	347.8	349.7
62.5°	296.3	292.7	288.4	290.4	288.4	292.7	296.3	303.1	308.6	313.0	317.3
65°	241.0	238.4	236.5	239.1	236.5	238.4	241.0	246.1	251.1	261.2	270.7
67.5°	199.5	198.1	198.1	196.9	198.1	198.1	199.5	202.0	205.2	210.7	219.6
70°	177.8	175.9	175.9	174.6	175.9	175.9	177.8	177.8	180.9	183.4	189.7
72.5°	155.4	153.6	154.1	153.3	154.1	153.6	155.4	156.0	159.1	160.2	163.0
75°	115.1	111.9	111.9	112.6	111.9	111.9	115.1	118.9	122.1	127.8	129.0
77.5°	85.9	85.2	86.1	85.0	86.1	85.2	85.9	85.9	86.5	89.2	91.3
80°	70.2	69.6	68.9	70.8	68.9	69.6	70.2	70.2	70.8	71.5	72.1
82.5°	54.5	54.4	54.3	56.6	54.3	54.4	54.5	55.5	55.7	55.3	55.9
85°	32.9	31.6	32.9	31.6	32.9	31.6	32.9	32.2	32.9	32.2	32.9
87.5°	18.5	18.1	17.7	18.3	17.7	18.1	18.5	17.3	17.2	17.8	17.0
90°	34.2	34.8	35.3	35.8	35.3	34.8	34.2	33.7	32.6	31.1	29.5
92.5°	32.6	32.8	32.9	33.0	32.9	32.8	32.6	32.6	31.7	30.1	28.5
95°	33.8	34.1	34.4	34.6	34.4	34.1	33.8	33.6	32.6	31.1	29.5
97.5°	32.6	33.0	33.2	33.4	33.2	33.0	32.6	32.4	32.2	32.0	31.8
100°	32.6	33.0	33.2	33.4	33.2	33.0	32.6	32.4	34.5	39.1	43.6
102.5°	34.2	34.3	34.4	34.4	34.4	34.3	34.2	34.2	58.5	107.2	155.9
105°	369.2	359.6	350.1	340.5	350.1	359.6	369.2	378.7	382.3	379.9	377.5
107.5°	471.5	472.5	473.5	474.5	473.5	472.5	471.5	470.5	469.4	468.3	467.1
110°	530.4	531.2	532.0	532.8	532.0	531.2	530.4	529.7	528.9	528.5	527.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	588.1	589.1	590.1	591.1	590.1	589.1	588.1	587.1	586.6	586.7	586.8
115°	676.2	676.2	676.2	676.2	676.2	676.2	676.2	676.2	675.9	675.3	674.9
117.5°	763.0	762.9	762.8	762.6	762.8	762.9	763.0	763.1	763.2	763.3	763.4
120°	818.7	818.2	817.7	817.1	817.7	818.2	818.7	819.3	819.3	818.7	818.2
122.5°	872.3	871.7	871.2	870.7	871.2	871.7	872.3	872.7	872.9	872.6	872.3
125°	950.1	950.4	950.7	950.9	950.7	950.4	950.1	949.9	949.4	948.6	947.8
127.5°	1022.1	1021.8	1021.6	1021.4	1021.6	1021.8	1022.1	1022.2	1022.5	1022.6	1022.8
130°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.1	1068.8	1068.6
132.5°	1113.8	1113.6	1113.4	1113.2	1113.4	1113.6	1113.8	1114.0	1114.0	1113.7	1113.5
135°	1177.5	1178.1	1178.6	1179.1	1178.6	1178.1	1177.5	1177.0	1176.5	1175.9	1175.4
137.5°	1236.0	1235.8	1235.6	1235.5	1235.6	1235.8	1236.0	1236.1	1236.0	1235.3	1234.8
140°	1273.9	1274.1	1274.4	1274.7	1274.4	1274.1	1273.9	1273.6	1273.1	1272.3	1271.5
142.5°	1307.0	1307.1	1307.1	1307.2	1307.1	1307.1	1307.0	1306.9	1306.6	1306.1	1305.5
145°	1355.5	1356.1	1356.6	1357.1	1356.6	1356.1	1355.5	1355.0	1354.6	1354.3	1354.1
147.5°	1397.6	1397.9	1398.2	1398.4	1398.2	1397.9	1397.6	1397.4	1397.2	1396.9	1396.7
150°	1424.4	1424.7	1425.0	1425.2	1425.0	1424.7	1424.4	1424.2	1424.0	1424.0	1424.0
152.5°	1448.6	1448.4	1448.3	1448.1	1448.3	1448.4	1448.6	1448.7	1448.7	1448.2	1447.8
155°	1481.4	1480.6	1479.8	1479.0	1479.8	1480.6	1481.4	1482.2	1482.0	1481.0	1479.9
157.5°	1508.9	1507.5	1506.2	1504.8	1506.2	1507.5	1508.9	1510.3	1510.3	1508.9	1507.5
160°	1526.8	1525.2	1523.6	1521.9	1523.6	1525.2	1526.8	1528.4	1528.4	1526.8	1525.2
162.5°	1540.8	1539.0	1537.2	1535.3	1537.2	1539.0	1540.8	1542.5	1542.7	1541.1	1539.5
165°	1561.4	1559.0	1556.6	1554.3	1556.6	1559.0	1561.4	1563.8	1563.9	1561.8	1559.6
167.5°	1576.3	1573.7	1571.0	1568.4	1571.0	1573.7	1576.3	1579.0	1579.1	1576.8	1574.5
170°	1584.9	1582.2	1579.6	1576.9	1579.6	1582.2	1584.9	1587.5	1587.9	1585.7	1583.6
172.5°	1590.3	1587.5	1584.6	1581.7	1584.6	1587.5	1590.3	1593.2	1593.6	1591.4	1589.3
175°	1597.2	1594.0	1590.9	1587.7	1590.9	1594.0	1597.2	1600.4	1600.8	1598.5	1596.0
177.5°	1599.2	1596.6	1594.0	1591.5	1594.0	1596.6	1599.2	1601.7	1602.1	1600.4	1598.7
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1501.5	1505.1	1513.1	1522.3	1529.9	1536.4	1541.5	1548.6	1555.1	1564.2	1572.9
5°	1410.5	1419.3	1431.9	1447.2	1466.1	1478.8	1494.5	1508.5	1528.8	1549.0	1568.6
7.5°	1330.5	1340.2	1358.8	1379.8	1402.3	1423.1	1441.9	1466.3	1493.2	1522.7	1555.5
10°	1278.9	1289.7	1311.8	1335.8	1362.4	1382.6	1407.9	1437.0	1467.4	1503.4	1543.9
12.5°	1232.3	1242.6	1269.2	1293.8	1321.4	1343.6	1373.0	1402.6	1443.1	1482.2	1528.2
15°	1141.6	1168.9	1199.2	1228.3	1261.2	1288.4	1323.8	1354.2	1392.7	1447.8	1500.2
17.5°	1040.9	1069.9	1107.6	1152.5	1196.7	1230.3	1266.2	1303.9	1349.9	1406.0	1466.6
20°	982.2	1005.7	1047.4	1097.3	1148.6	1195.4	1228.3	1270.0	1317.5	1378.2	1440.8
22.5°	938.3	958.1	990.7	1040.7	1096.0	1150.3	1192.4	1233.6	1286.1	1346.8	1415.0
25°	872.2	893.7	922.2	956.3	1019.5	1077.1	1132.2	1179.6	1235.2	1295.9	1371.8
27.5°	817.3	836.0	862.1	897.6	940.2	1003.6	1070.3	1124.4	1181.5	1246.7	1322.6
30°	784.9	800.1	821.6	857.6	898.1	955.1	1022.7	1086.0	1143.5	1211.2	1290.3
32.5°	751.0	767.2	788.2	816.7	860.2	908.0	975.7	1045.0	1106.1	1175.3	1252.8
35°	705.8	718.5	737.4	766.6	805.8	847.6	907.6	979.1	1043.6	1117.6	1191.6
37.5°	660.2	675.1	690.1	716.0	748.1	793.0	842.2	915.2	986.7	1054.2	1126.5
40°	634.4	643.3	659.7	680.6	714.7	754.6	800.7	872.2	943.6	1010.7	1083.5
42.5°	605.5	615.4	629.3	650.2	680.8	719.6	764.8	826.6	901.2	966.2	1032.4
45°	565.5	571.2	585.0	602.8	628.0	667.3	709.0	764.1	834.2	896.2	954.4
47.5°	525.0	529.9	538.6	554.8	583.1	614.7	653.7	703.1	764.7	826.6	875.8
50°	497.1	501.5	509.8	525.0	550.2	581.2	619.8	664.1	719.1	778.6	819.7
52.5°	469.3	471.7	479.4	496.6	517.8	548.3	582.9	623.6	675.1	724.5	766.0
55°	425.0	430.7	435.8	448.5	468.7	497.7	528.8	567.4	607.2	649.0	684.4
57.5°	378.8	385.1	392.4	403.5	419.6	446.6	474.5	505.7	539.8	574.4	604.1
60°	348.5	354.2	360.5	373.2	387.7	409.2	439.6	466.8	492.7	524.3	554.1
62.5°	318.6	324.3	331.7	341.8	355.8	376.4	401.6	425.3	452.3	479.8	501.9
65°	274.5	278.9	284.6	294.1	307.4	325.7	346.6	365.0	389.0	409.2	429.4
67.5°	226.1	234.6	242.0	249.7	260.9	278.1	293.1	310.7	327.0	342.1	360.5
70°	194.2	203.7	210.6	218.8	229.6	244.2	258.6	270.7	284.0	298.5	315.0
72.5°	167.4	174.8	180.2	189.0	198.8	212.2	225.8	235.8	246.5	256.5	272.5
75°	132.2	135.4	139.2	146.1	155.0	165.1	175.9	184.7	191.0	199.9	211.3
77.5°	95.0	101.1	103.6	108.5	114.9	121.2	128.3	135.7	141.8	145.0	153.7
80°	72.7	75.3	77.8	84.8	88.6	94.9	99.9	106.9	109.4	112.6	120.8
82.5°	56.6	58.1	59.6	61.5	63.8	70.1	75.2	79.5	82.1	83.3	89.4
85°	32.9	33.5	34.1	34.8	35.4	35.4	37.9	41.1	45.6	45.6	47.5
87.5°	16.7	16.9	16.5	15.5	16.2	15.7	15.7	15.1	16.1	17.0	17.9
90°	27.9	26.3	24.2	22.0	19.9	17.8	15.3	12.4	9.4	6.5	3.6
92.5°	26.9	25.3	23.2	21.1	18.9	16.8	15.7	15.5	15.4	15.2	15.1
95°	27.9	26.3	26.0	25.7	25.5	25.2	29.6	38.7	47.7	56.6	65.7
97.5°	31.7	31.5	61.2	90.8	120.4	150.0	162.1	156.5	150.8	145.1	139.5
100°	48.1	52.6	89.2	125.8	162.5	199.1	215.0	210.2	205.5	200.7	195.9
102.5°	204.5	253.3	258.0	262.8	267.6	272.4	273.0	269.5	266.0	262.5	259.0
105°	375.1	372.7	371.4	370.1	368.8	367.4	366.0	364.4	362.7	361.2	359.6
107.5°	465.9	464.7	462.9	461.1	459.3	457.5	456.2	455.4	454.6	453.8	453.0
110°	527.4	526.8	525.2	523.6	522.0	520.5	519.3	518.5	517.7	516.9	516.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	586.9	587.1	586.3	585.6	584.8	584.1	583.0	581.5	580.1	578.7	577.3
115°	674.3	673.8	674.1	674.3	674.5	674.9	674.5	673.8	673.0	672.2	671.4
117.5°	763.5	763.6	763.0	762.5	761.8	761.3	760.5	759.4	758.4	757.2	756.2
120°	817.7	817.1	817.4	817.7	817.9	818.2	817.8	816.7	815.7	814.6	813.6
122.5°	872.0	871.6	871.2	870.8	870.5	870.1	869.7	868.9	868.3	867.7	867.0
125°	947.0	946.2	946.7	947.2	947.8	948.2	948.0	947.0	945.9	944.8	943.8
127.5°	1022.9	1023.1	1021.8	1020.6	1019.5	1018.2	1017.5	1017.2	1016.9	1016.7	1016.4
130°	1068.3	1068.0	1067.2	1066.4	1065.6	1064.9	1064.3	1064.1	1063.7	1063.5	1063.3
132.5°	1113.2	1112.9	1111.9	1110.9	1109.9	1108.9	1108.2	1107.7	1107.2	1106.7	1106.2
135°	1174.9	1174.3	1173.3	1172.2	1171.2	1170.1	1169.7	1170.0	1170.2	1170.4	1170.8
137.5°	1234.1	1233.6	1232.4	1231.3	1230.1	1228.9	1228.3	1228.2	1228.0	1228.0	1227.9
140°	1270.7	1269.9	1269.4	1268.8	1268.3	1267.8	1267.3	1266.7	1266.2	1265.7	1265.1
142.5°	1304.9	1304.3	1304.0	1303.7	1303.4	1303.1	1302.4	1301.5	1300.5	1299.5	1298.5
145°	1353.8	1353.5	1353.5	1353.5	1353.5	1353.5	1353.1	1352.3	1351.5	1350.8	1350.0
147.5°	1396.5	1396.3	1396.5	1396.9	1397.1	1397.3	1396.8	1395.3	1393.8	1392.3	1390.8
150°	1424.0	1424.0	1424.3	1424.6	1424.8	1425.1	1424.7	1423.6	1422.5	1421.5	1420.5
152.5°	1447.4	1446.9	1447.4	1447.9	1448.3	1448.9	1448.7	1447.8	1447.0	1446.1	1445.3
155°	1478.8	1477.7	1478.6	1479.4	1480.2	1481.0	1481.2	1481.0	1480.7	1480.4	1480.2
157.5°	1506.2	1504.8	1505.7	1506.6	1507.4	1508.4	1508.9	1509.1	1509.3	1509.4	1509.6
160°	1523.6	1521.9	1522.3	1522.5	1522.7	1523.0	1523.6	1524.4	1525.2	1526.0	1526.8
162.5°	1537.9	1536.3	1536.6	1536.8	1537.1	1537.4	1538.0	1539.1	1540.0	1541.0	1542.1
165°	1557.5	1555.4	1555.4	1555.4	1555.4	1555.4	1556.1	1557.4	1558.8	1560.0	1561.4
167.5°	1572.1	1569.8	1569.9	1570.1	1570.3	1570.4	1571.1	1572.6	1573.9	1575.3	1576.7
170°	1581.4	1579.3	1579.1	1578.8	1578.5	1578.3	1578.9	1580.5	1582.1	1583.7	1585.3
172.5°	1587.1	1585.1	1584.8	1584.5	1584.3	1584.0	1584.7	1586.3	1587.9	1589.4	1591.0
175°	1593.6	1591.3	1591.0	1590.7	1590.5	1590.2	1590.9	1592.4	1594.0	1595.6	1597.2
177.5°	1597.0	1595.3	1594.9	1594.5	1594.0	1593.6	1594.2	1595.6	1597.1	1598.6	1600.1
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1579.5	1584.0	1589.0	1598.7	1606.8	1610.3	1617.4	1622.5	1621.0	1628.0	1640.1
5°	1585.6	1602.7	1622.3	1642.6	1665.3	1684.3	1699.5	1714.7	1726.7	1741.2	1762.8
7.5°	1584.6	1615.0	1648.0	1684.3	1721.6	1753.9	1783.8	1814.1	1841.0	1870.5	1909.1
10°	1580.6	1621.0	1662.2	1709.6	1757.1	1802.0	1842.5	1880.4	1916.4	1955.0	2003.7
12.5°	1576.0	1622.5	1672.3	1729.3	1788.4	1842.5	1890.0	1944.6	1989.8	2039.6	2095.8
15°	1555.9	1618.5	1686.2	1760.2	1831.1	1903.8	1968.9	2036.0	2098.6	2158.1	2228.9
17.5°	1532.9	1605.1	1685.0	1772.3	1857.5	1945.9	2023.2	2107.7	2171.7	2251.5	2317.3
20°	1514.2	1592.0	1677.4	1775.4	1872.2	1970.2	2055.6	2141.6	2213.7	2294.0	2377.5
22.5°	1491.4	1576.8	1669.3	1770.8	1872.2	1979.3	2073.8	2159.3	2248.6	2339.1	2425.1
25°	1454.7	1543.3	1641.3	1752.6	1869.0	1978.4	2079.6	2185.9	2282.0	2380.0	2457.2
27.5°	1409.7	1502.7	1606.0	1720.9	1840.3	1952.3	2071.6	2184.8	2281.5	2375.8	2443.2
30°	1373.7	1471.8	1571.1	1687.5	1811.4	1931.6	2059.4	2172.6	2274.4	2359.2	2397.1
32.5°	1336.8	1429.8	1532.2	1650.0	1777.0	1906.3	2033.1	2148.8	2243.1	2293.9	2294.9
35°	1272.6	1359.9	1466.1	1581.8	1712.1	1852.5	1980.9	2094.8	2152.4	2156.8	2094.8
37.5°	1202.5	1282.5	1382.8	1498.7	1641.4	1781.1	1912.2	1988.1	2007.4	1943.0	1828.4
40°	1152.4	1226.4	1323.2	1442.1	1583.7	1728.0	1847.5	1903.1	1882.9	1778.5	1650.7
42.5°	1099.8	1168.7	1261.9	1379.3	1521.5	1667.2	1769.1	1798.9	1745.3	1624.8	1475.2
45°	1013.9	1077.1	1169.5	1287.8	1424.3	1561.0	1638.2	1622.9	1533.7	1390.8	1223.2
47.5°	924.5	985.6	1068.7	1178.1	1318.0	1435.8	1488.1	1442.3	1315.4	1158.2	1021.8
50°	865.2	927.9	1004.4	1108.7	1236.5	1350.4	1383.9	1314.3	1173.2	1022.1	896.8
52.5°	807.1	860.5	935.6	1036.4	1158.6	1254.7	1272.6	1192.4	1046.8	911.2	800.2
55°	718.5	767.2	830.4	925.3	1030.9	1112.5	1103.0	1000.0	867.8	752.0	664.7
57.5°	632.9	669.6	728.0	816.9	909.7	964.4	929.8	841.9	718.7	623.9	550.2
60°	576.2	610.4	664.7	742.5	824.1	855.1	826.0	730.6	633.1	546.4	484.5
62.5°	522.5	552.7	599.4	671.7	737.6	756.0	724.8	641.4	553.7	479.7	428.3
65°	444.7	472.5	512.3	563.6	609.1	617.9	597.7	512.3	445.9	383.9	348.5
67.5°	373.9	392.1	423.3	467.5	491.7	496.9	457.8	404.2	345.6	307.5	280.8
70°	326.4	339.0	368.1	392.1	411.8	412.4	376.4	333.4	288.4	257.5	237.8
72.5°	280.4	292.5	314.5	330.9	345.9	341.0	308.0	274.1	237.8	214.4	199.9
75°	216.3	227.0	238.4	246.1	246.1	239.7	215.7	190.4	169.5	155.6	151.1
77.5°	157.2	166.1	169.9	168.7	166.4	156.6	141.4	124.8	117.4	110.8	107.5
80°	123.3	127.1	128.4	125.2	121.4	110.0	99.9	93.0	86.0	83.5	82.2
82.5°	91.4	94.7	91.4	92.4	84.0	74.6	69.1	66.7	63.8	62.7	61.5
85°	48.7	48.1	46.8	43.6	37.9	36.7	36.0	35.4	34.1	34.8	33.5
87.5°	18.0	17.0	15.6	15.7	16.2	15.6	16.6	17.0	17.4	17.2	18.5
90°	6.5	9.4	12.4	15.3	17.8	19.9	22.0	24.2	26.3	27.9	29.5
92.5°	15.2	15.4	15.5	15.7	16.8	18.9	21.1	23.2	25.3	26.9	28.5
95°	56.6	47.7	38.7	29.6	25.2	25.5	25.7	26.0	26.3	27.9	29.5
97.5°	145.1	150.8	156.5	162.1	150.0	120.4	90.8	61.2	31.5	31.7	31.8
100°	200.7	205.5	210.2	215.0	199.1	162.5	125.8	89.2	52.6	48.1	43.6
102.5°	262.5	266.0	269.5	273.0	272.4	267.6	262.8	258.0	253.3	204.5	155.9
105°	361.2	362.7	364.4	366.0	367.4	368.8	370.1	371.4	372.7	375.1	377.5
107.5°	453.8	454.6	455.4	456.2	457.5	459.3	461.1	462.9	464.7	465.9	467.1
110°	516.9	517.7	518.5	519.3	520.5	522.0	523.6	525.2	526.8	527.4	527.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	578.7	580.1	581.5	583.0	584.1	584.8	585.6	586.3	587.1	586.9	586.8
115°	672.2	673.0	673.8	674.5	674.9	674.5	674.3	674.1	673.8	674.3	674.9
117.5°	757.2	758.4	759.4	760.5	761.3	761.8	762.5	763.0	763.6	763.5	763.4
120°	814.6	815.7	816.7	817.8	818.2	817.9	817.7	817.4	817.1	817.7	818.2
122.5°	867.7	868.3	868.9	869.7	870.1	870.5	870.8	871.2	871.6	872.0	872.3
125°	944.8	945.9	947.0	948.0	948.2	947.8	947.2	946.7	946.2	947.0	947.8
127.5°	1016.7	1016.9	1017.2	1017.5	1018.2	1019.5	1020.6	1021.8	1023.1	1022.9	1022.8
130°	1063.5	1063.7	1064.1	1064.3	1064.9	1065.6	1066.4	1067.2	1068.0	1068.3	1068.6
132.5°	1106.7	1107.2	1107.7	1108.2	1108.9	1109.9	1110.9	1111.9	1112.9	1113.2	1113.5
135°	1170.4	1170.2	1170.0	1169.7	1170.1	1171.2	1172.2	1173.3	1174.3	1174.9	1175.4
137.5°	1228.0	1228.0	1228.2	1228.3	1228.9	1230.1	1231.3	1232.4	1233.6	1234.1	1234.8
140°	1265.7	1266.2	1266.7	1267.3	1267.8	1268.3	1268.8	1269.4	1269.9	1270.7	1271.5
142.5°	1299.5	1300.5	1301.5	1302.4	1303.1	1303.4	1303.7	1304.0	1304.3	1304.9	1305.5
145°	1350.8	1351.5	1352.3	1353.1	1353.5	1353.5	1353.5	1353.5	1353.5	1353.8	1354.1
147.5°	1392.3	1393.8	1395.3	1396.8	1397.3	1397.1	1396.9	1396.5	1396.3	1396.5	1396.7
150°	1421.5	1422.5	1423.6	1424.7	1425.1	1424.8	1424.6	1424.3	1424.0	1424.0	1424.0
152.5°	1446.1	1447.0	1447.8	1448.7	1448.9	1448.3	1447.9	1447.4	1446.9	1447.4	1447.8
155°	1480.4	1480.7	1481.0	1481.2	1481.0	1480.2	1479.4	1478.6	1477.7	1478.8	1479.9
157.5°	1509.4	1509.3	1509.1	1508.9	1508.4	1507.4	1506.6	1505.7	1504.8	1506.2	1507.5
160°	1526.0	1525.2	1524.4	1523.6	1523.0	1522.7	1522.5	1522.3	1521.9	1523.6	1525.2
162.5°	1541.0	1540.0	1539.1	1538.0	1537.4	1537.1	1536.8	1536.6	1536.3	1537.9	1539.5
165°	1560.0	1558.8	1557.4	1556.1	1555.4	1555.4	1555.4	1555.4	1555.4	1557.5	1559.6
167.5°	1575.3	1573.9	1572.6	1571.1	1570.4	1570.3	1570.1	1569.9	1569.8	1572.1	1574.5
170°	1583.7	1582.1	1580.5	1578.9	1578.3	1578.5	1578.8	1579.1	1579.3	1581.4	1583.6
172.5°	1589.4	1587.9	1586.3	1584.7	1584.0	1584.3	1584.5	1584.8	1585.1	1587.1	1589.3
175°	1595.6	1594.0	1592.4	1590.9	1590.2	1590.5	1590.7	1591.0	1591.3	1593.6	1596.0
177.5°	1598.6	1597.1	1595.6	1594.2	1593.6	1594.0	1594.5	1594.9	1595.3	1597.0	1598.7
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1646.7	1648.8	1650.3	1655.3	1655.8	1660.4	1655.8
5°	1783.0	1791.8	1805.8	1819.6	1820.9	1829.8	1813.9
7.5°	1935.8	1956.3	1969.0	1991.5	2000.4	2006.0	1996.9
10°	2041.1	2060.0	2093.5	2110.0	2126.5	2128.9	2121.4
12.5°	2142.8	2172.9	2199.3	2230.4	2229.7	2251.9	2243.8
15°	2278.2	2309.2	2345.9	2380.7	2393.3	2393.3	2403.5
17.5°	2374.9	2431.7	2469.6	2497.0	2526.7	2532.0	2528.4
20°	2440.2	2501.5	2542.0	2577.4	2597.6	2603.3	2603.3
22.5°	2488.7	2540.9	2580.5	2612.3	2629.0	2635.7	2633.7
25°	2522.4	2567.2	2591.3	2600.8	2605.2	2604.0	2591.9
27.5°	2476.3	2474.3	2459.1	2430.0	2408.2	2394.8	2379.6
30°	2388.3	2355.4	2317.5	2275.7	2221.9	2180.8	2168.1
32.5°	2257.2	2183.3	2119.1	2049.5	1991.7	1950.6	1933.4
35°	2003.7	1886.7	1791.2	1707.7	1647.0	1609.1	1596.4
37.5°	1702.9	1589.7	1471.4	1390.4	1340.1	1301.8	1287.5
40°	1511.6	1388.3	1285.2	1209.3	1157.5	1120.1	1119.5
42.5°	1337.0	1219.3	1122.3	1067.6	1011.7	987.1	986.9
45°	1094.8	1000.6	918.4	875.4	841.9	821.6	815.9
47.5°	906.5	828.5	773.8	739.5	712.2	699.3	690.9
50°	800.7	732.5	688.8	659.0	643.9	627.4	626.1
52.5°	712.6	657.5	623.5	599.4	580.1	570.2	570.5
55°	599.0	555.3	531.3	512.9	497.7	490.2	487.0
57.5°	504.6	471.8	454.4	437.5	431.1	425.2	423.5
60°	445.9	423.7	407.3	394.0	384.5	382.6	382.0
62.5°	397.4	374.1	362.8	352.5	345.6	342.7	341.5
65°	327.6	310.5	300.4	292.2	289.7	285.3	284.6
67.5°	264.1	253.9	247.2	241.5	238.1	237.8	237.8
70°	225.1	219.4	213.8	210.6	208.7	207.5	207.5
72.5°	191.8	187.6	182.9	181.3	180.9	179.6	179.1
75°	146.1	141.6	142.3	139.2	136.7	133.5	131.6
77.5°	103.6	100.4	99.8	99.4	97.3	96.9	97.9
80°	80.3	77.2	76.5	77.2	76.5	74.6	74.6
82.5°	61.1	58.5	57.8	57.4	56.8	57.4	56.4
85°	32.9	31.6	31.6	31.6	32.9	32.2	31.6
87.5°	17.8	17.7	18.4	18.0	18.1	17.7	18.3
90°	31.1	32.6	33.7	34.2	34.8	35.3	35.8
92.5°	30.1	31.7	32.6	32.6	32.8	32.9	33.0
95°	31.1	32.6	33.6	33.8	34.1	34.4	34.6
97.5°	32.0	32.2	32.4	32.6	33.0	33.2	33.4
100°	39.1	34.5	32.4	32.6	33.0	33.2	33.4
102.5°	107.2	58.5	34.2	34.2	34.3	34.4	34.4
105°	379.9	382.3	378.7	369.2	359.6	350.1	340.5
107.5°	468.3	469.4	470.5	471.5	472.5	473.5	474.5
110°	528.5	528.9	529.7	530.4	531.2	532.0	532.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	586.7	586.6	587.1	588.1	589.1	590.1	591.1
115°	675.3	675.9	676.2	676.2	676.2	676.2	676.2
117.5°	763.3	763.2	763.1	763.0	762.9	762.8	762.6
120°	818.7	819.3	819.3	818.7	818.2	817.7	817.1
122.5°	872.6	872.9	872.7	872.3	871.7	871.2	870.7
125°	948.6	949.4	949.9	950.1	950.4	950.7	950.9
127.5°	1022.6	1022.5	1022.2	1022.1	1021.8	1021.6	1021.4
130°	1068.8	1069.1	1069.2	1069.2	1069.2	1069.2	1069.2
132.5°	1113.7	1114.0	1114.0	1113.8	1113.6	1113.4	1113.2
135°	1175.9	1176.5	1177.0	1177.5	1178.1	1178.6	1179.1
137.5°	1235.3	1236.0	1236.1	1236.0	1235.8	1235.6	1235.5
140°	1272.3	1273.1	1273.6	1273.9	1274.1	1274.4	1274.7
142.5°	1306.1	1306.6	1306.9	1307.0	1307.1	1307.1	1307.2
145°	1354.3	1354.6	1355.0	1355.5	1356.1	1356.6	1357.1
147.5°	1396.9	1397.2	1397.4	1397.6	1397.9	1398.2	1398.4
150°	1424.0	1424.0	1424.2	1424.4	1424.7	1425.0	1425.2
152.5°	1448.2	1448.7	1448.7	1448.6	1448.4	1448.3	1448.1
155°	1481.0	1482.0	1482.2	1481.4	1480.6	1479.8	1479.0
157.5°	1508.9	1510.3	1510.3	1508.9	1507.5	1506.2	1504.8
160°	1526.8	1528.4	1528.4	1526.8	1525.2	1523.6	1521.9
162.5°	1541.1	1542.7	1542.5	1540.8	1539.0	1537.2	1535.3
165°	1561.8	1563.9	1563.8	1561.4	1559.0	1556.6	1554.3
167.5°	1576.8	1579.1	1579.0	1576.3	1573.7	1571.0	1568.4
170°	1585.7	1587.9	1587.5	1584.9	1582.2	1579.6	1576.9
172.5°	1591.4	1593.6	1593.2	1590.3	1587.5	1584.6	1581.7
175°	1598.5	1600.8	1600.4	1597.2	1594.0	1590.9	1587.7
177.5°	1600.4	1602.1	1601.7	1599.2	1596.6	1594.0	1591.5
180°	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2	1597.2

(END OF REPORT)