

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: P332486-935

Luminaire Tested: **S123RDIW-S1165D1535U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332486-935  
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: S123RDIW-S1165D1535U935-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1535 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

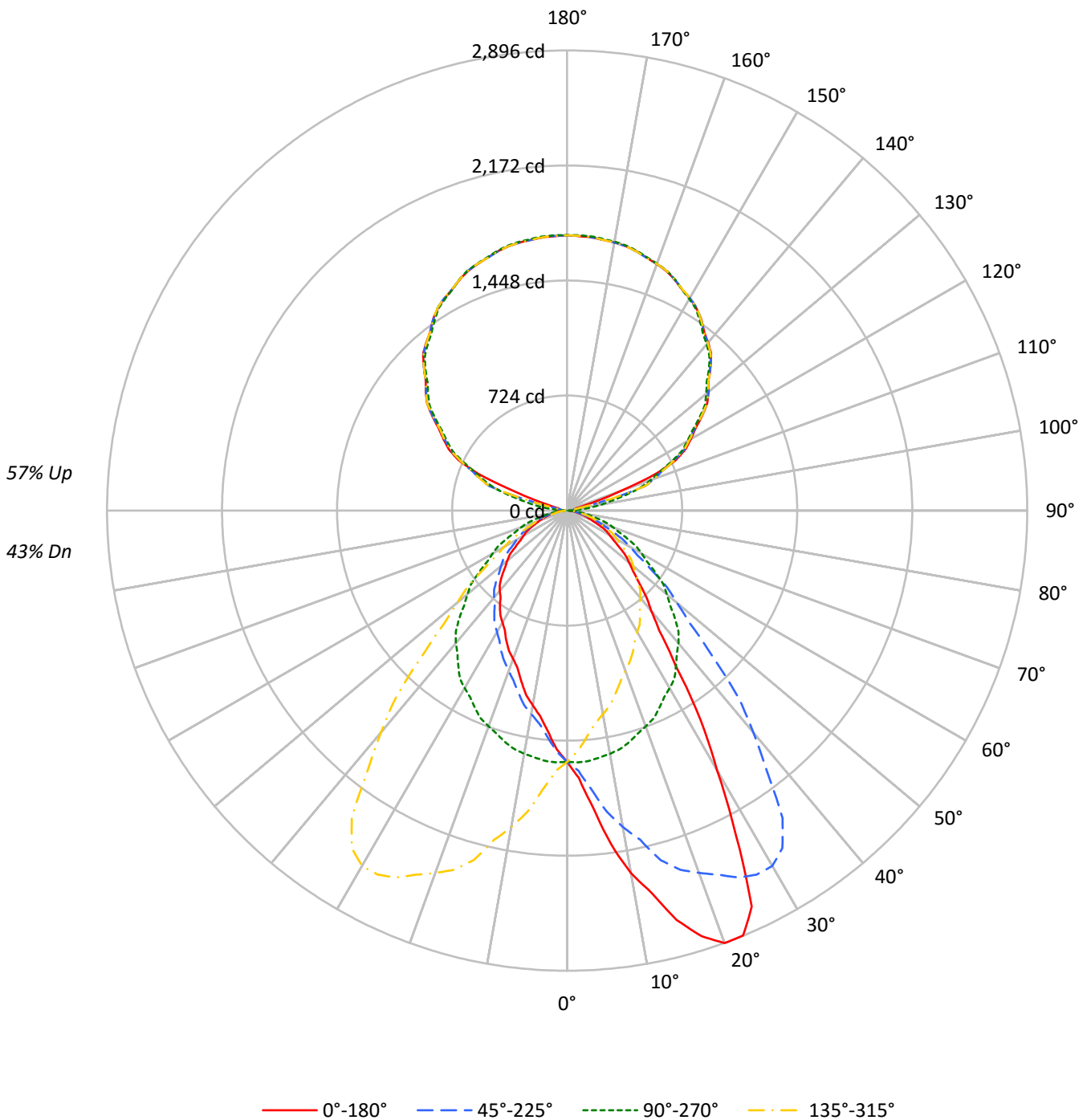
Lumens per Lamp: N/A  
Luminaire Lumens: 9224.3 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (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										
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	50	30	10	0														
RCR																																						
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43																				
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	44	44	43	37																				
2	88	81	76	71	81	75	70	66	62	59	55	50	48	46	40	38	37	32																				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	27																				
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24																				
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	27	24	21																				
6	63	51	44	38	57	47	41	36	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	24	22	19	17																				
8	54	42	35	30	50	39	32	28	33	28	24	28	24	21	22	20	18	15																				
9	50	39	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14																				
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13																				

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

	0°	90°	180°	270°
0°	17016	17016	17016	17016
5°	20283	17088	15048	17088
10°	25326	16990	13595	16990
15°	29727	16817	12397	16817
20°	33176	16557	11379	16557
25°	32647	16284	10753	16284
30°	23467	16032	10110	16032
35°	15669	15704	9692	15704
40°	11545	15309	9261	15309
45°	9683	14618	8840	14618
50°	8544	13711	8251	13711
55°	7492	12675	7443	12675
60°	6674	11683	6818	11683
65°	5861	10618	6342	10618
70°	4601	9668	5794	9668
75°	4055	8442	5294	8442
80°	3521	7172	5201	7172
85°	2841	5768	5521	5768



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.5	1.7
10°-20°	485.7	5.3
20°-30°	763.0	8.3
30°-40°	796.1	8.6
40°-50°	681.2	7.4
50°-60°	519.2	5.6
60°-70°	332.8	3.6
70°-80°	160.1	1.7
80°-90°	47.2	0.5
90°-100°	63.0	0.7
100°-110°	300.2	3.3
110°-120°	721.1	7.8
120°-130°	918.3	10.0
130°-140°	981.1	10.6
140°-150°	917.5	9.9
150°-160°	740.1	8.0
160°-170°	477.6	5.2
170°-180°	164.6	1.8
0°-30°	1404.1	15.2
0°-40°	2200.2	23.9
0°-60°	3400.7	36.9
0°-90°	3940.8	42.7
90°-120°	1084.3	11.8
90°-150°	3901.2	42.3
90°-180°	5283.0	57.3
0°-180°	9224.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1581	1581	1581	1581	1581	
5°	1877	1582	1393	1582	1877	194
15°	2668	1509	1112	1509	2668	756
25°	2749	1371	905	1371	2749	1181
35°	1192	1195	738	1195	1192	782
45°	636	960	581	960	636	500
55°	399	675	397	675	399	361
65°	230	417	249	417	230	226
75°	98	203	127	203	98	105
85°	23	47	45	47	23	27
90°	39	1	39	1	39	18
95°	49	78	49	78	49	41
105°	57	384	57	384	57	129
115°	757	720	757	720	757	699
125°	1035	1014	1035	1014	1035	924
135°	1276	1263	1276	1263	1276	984
145°	1471	1457	1471	1457	1471	918
155°	1603	1605	1603	1605	1603	739
165°	1689	1693	1689	1693	1689	477
175°	1726	1732	1726	1732	1726	164
180°	1732	1732	1732	1732	1732	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1683.7	1685.8	1678.8	1677.7	1669.6	1667.4	1667.4	1656.0	1649.0	1639.9	1634.4
5°	1877.2	1888.1	1882.7	1870.4	1850.1	1845.4	1832.6	1812.2	1789.2	1760.8	1747.3
7.5°	2118.9	2133.7	2128.0	2109.2	2087.9	2070.8	2034.5	2000.8	1953.5	1912.1	1876.6
10°	2317.1	2301.5	2289.3	2271.1	2251.4	2219.7	2181.8	2129.6	2069.4	2022.1	1969.3
12.5°	2465.4	2462.9	2447.4	2428.6	2400.9	2370.7	2324.1	2260.6	2190.6	2122.2	2061.8
15°	2667.6	2671.7	2661.5	2641.9	2602.6	2549.2	2478.8	2452.5	2352.3	2277.9	2203.4
17.5°	2807.5	2806.8	2805.4	2778.2	2738.2	2700.1	2634.8	2565.4	2474.8	2369.9	2269.6
20°	2896.3	2889.6	2891.0	2860.5	2830.7	2786.7	2723.1	2622.3	2547.9	2426.7	2323.2
22.5°	2894.2	2892.9	2898.0	2887.5	2865.9	2832.2	2782.1	2697.0	2602.0	2479.8	2363.3
25°	2748.8	2743.4	2775.3	2784.0	2818.6	2824.6	2809.7	2763.0	2673.1	2547.2	2403.1
27.5°	2300.6	2297.6	2356.6	2430.5	2524.2	2596.9	2667.4	2701.3	2673.1	2582.9	2438.5
30°	1888.1	1951.6	1981.4	2088.4	2207.4	2349.6	2474.1	2592.5	2621.6	2582.4	2463.9
32.5°	1567.5	1623.1	1648.0	1739.7	1850.7	2017.2	2203.9	2371.6	2490.1	2520.1	2448.8
35°	1192.4	1193.1	1249.9	1290.5	1393.4	1564.6	1745.9	1970.6	2193.9	2363.1	2380.7
37.5°	951.5	954.8	989.2	1029.7	1106.8	1197.4	1357.1	1543.9	1801.8	2061.6	2213.8
40°	821.6	827.6	853.3	893.3	948.7	1017.1	1141.6	1317.6	1532.8	1821.7	2057.9
42.5°	738.1	748.0	761.3	792.0	826.4	890.4	991.1	1127.0	1322.8	1595.9	1868.5
45°	636.1	641.5	651.7	665.9	697.0	741.7	809.3	900.7	1063.2	1283.1	1555.7
47.5°	561.1	558.3	568.9	580.5	601.2	631.6	677.0	751.6	867.5	1043.9	1275.2
50°	510.2	509.5	517.0	525.8	545.4	567.7	605.0	661.2	753.2	899.4	1111.2
52.5°	462.6	465.2	470.5	481.4	495.6	513.7	547.1	587.5	666.6	792.7	969.3
55°	399.2	401.3	408.7	414.8	425.0	443.2	464.3	498.1	552.2	640.2	785.7
57.5°	345.7	344.7	351.9	353.4	364.9	379.8	396.0	422.2	461.5	526.9	624.9
60°	310.0	307.9	314.0	318.7	324.9	337.0	350.5	376.3	407.4	455.5	539.3
62.5°	277.4	276.5	280.9	285.7	290.8	301.8	313.1	332.9	357.6	398.0	464.6
65°	230.1	232.1	234.1	236.2	238.8	245.6	256.5	270.0	287.0	315.4	363.4
67.5°	180.8	182.9	183.6	187.7	193.6	197.8	204.4	216.5	228.2	252.2	279.5
70°	146.2	145.5	146.2	148.2	155.7	163.1	171.9	180.7	188.1	205.0	228.1
72.5°	125.6	124.4	126.1	126.6	130.2	132.2	137.8	146.0	155.7	167.1	183.7
75°	97.5	97.5	97.5	97.5	100.1	101.5	103.6	105.6	108.9	114.3	126.6
77.5°	72.0	72.2	73.1	73.8	74.3	75.1	76.4	78.4	79.6	82.4	87.7
80°	56.8	57.5	56.8	57.5	57.5	58.9	59.6	61.6	62.3	65.6	67.7
82.5°	42.8	42.4	42.8	43.5	43.5	44.8	44.9	46.4	46.6	48.3	50.4
85°	23.0	21.7	23.0	22.3	23.7	22.3	23.0	24.4	24.4	25.1	27.7
87.5°	13.2	14.1	12.9	13.3	13.3	13.6	13.3	13.2	13.9	13.2	13.0
90°	38.6	38.1	37.5	36.9	36.3	35.5	34.4	33.1	32.0	30.9	27.2
92.5°	42.7	42.4	42.0	41.7	41.3	40.3	38.5	36.6	34.8	33.0	30.1
95°	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9	41.9	39.9	36.8
97.5°	53.0	52.8	52.4	52.2	51.9	50.6	48.3	46.1	43.7	41.4	38.1
100°	54.1	53.8	53.5	53.2	53.0	51.7	49.3	47.0	44.8	42.4	39.1
102.5°	55.1	54.6	54.1	53.6	53.0	56.3	63.5	70.5	77.6	84.7	103.5
105°	56.7	56.1	55.5	54.9	54.3	79.4	130.0	180.6	231.3	281.9	307.6
107.5°	177.9	216.0	254.2	292.4	330.5	368.2	405.3	442.4	479.6	516.7	512.6
110°	354.0	394.9	435.8	476.6	517.5	542.8	552.2	561.6	571.1	580.5	577.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	607.3	616.0	624.6	633.2	641.9	646.1	645.9	645.8	645.6	645.4	642.2
115°	756.9	755.7	754.6	753.5	752.3	750.3	747.4	744.6	741.7	738.8	736.2
117.5°	840.8	840.6	840.3	840.1	839.9	838.6	836.3	834.1	831.7	829.5	828.1
120°	898.5	898.5	898.5	898.5	898.5	897.3	895.0	892.8	890.4	888.1	887.3
122.5°	955.1	954.8	954.6	954.4	954.2	953.3	951.7	950.0	948.5	946.8	945.7
125°	1034.9	1034.3	1033.7	1033.2	1032.6	1032.0	1031.5	1030.9	1030.4	1029.8	1028.6
127.5°	1111.6	1112.2	1112.8	1113.4	1113.9	1113.7	1112.8	1111.9	1110.9	1110.1	1108.7
130°	1161.1	1161.6	1162.2	1162.8	1163.3	1163.0	1161.9	1160.7	1159.6	1158.5	1157.4
132.5°	1206.3	1207.1	1208.0	1208.8	1209.5	1209.4	1208.2	1207.1	1205.9	1204.8	1203.9
135°	1275.6	1276.4	1277.3	1278.2	1279.0	1279.0	1278.2	1277.3	1276.4	1275.6	1274.5
137.5°	1340.7	1341.3	1341.9	1342.5	1343.0	1342.6	1341.3	1339.9	1338.5	1337.1	1336.5
140°	1379.8	1380.4	1381.0	1381.6	1382.2	1381.8	1380.7	1379.6	1378.5	1377.3	1376.4
142.5°	1415.9	1416.7	1417.5	1418.3	1419.1	1419.0	1418.2	1417.2	1416.3	1415.4	1414.5
145°	1471.3	1471.3	1471.3	1471.3	1471.3	1470.9	1470.4	1469.8	1469.2	1468.7	1468.1
147.5°	1512.4	1513.7	1515.1	1516.4	1517.7	1518.1	1517.5	1516.9	1516.4	1515.8	1515.2
150°	1543.3	1544.2	1545.1	1545.9	1546.8	1546.9	1546.4	1545.8	1545.2	1544.6	1544.0
152.5°	1568.1	1569.3	1570.6	1572.0	1573.3	1573.5	1572.4	1571.4	1570.4	1569.3	1569.0
155°	1602.6	1604.2	1605.9	1607.7	1609.4	1609.6	1608.1	1606.7	1605.2	1603.8	1603.5
157.5°	1631.6	1633.8	1636.1	1638.3	1640.5	1640.8	1639.1	1637.4	1635.6	1633.9	1634.3
160°	1650.2	1652.2	1654.2	1656.1	1658.2	1658.3	1656.6	1654.9	1653.2	1651.5	1651.7
162.5°	1667.7	1669.5	1671.2	1673.0	1674.7	1674.6	1672.8	1670.8	1668.9	1666.9	1667.2
165°	1688.8	1690.7	1692.8	1694.8	1696.8	1696.7	1694.4	1692.0	1689.8	1687.5	1687.8
167.5°	1704.0	1706.2	1708.6	1710.8	1713.1	1713.1	1710.8	1708.6	1706.2	1704.0	1704.0
170°	1713.2	1715.5	1717.8	1720.1	1722.4	1722.4	1720.1	1717.8	1715.5	1713.2	1713.2
172.5°	1718.4	1720.9	1723.5	1726.0	1728.5	1728.5	1726.3	1724.0	1721.7	1719.4	1719.2
175°	1726.1	1728.4	1730.7	1732.9	1735.3	1735.4	1733.4	1731.4	1729.4	1727.4	1727.1
177.5°	1728.5	1730.7	1733.0	1735.3	1737.6	1737.8	1735.9	1734.1	1732.3	1730.5	1730.3
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1632.3	1630.6	1623.1	1614.4	1603.0	1595.4	1589.5	1586.2	1576.5	1564.6	1556.4
5°	1733.1	1712.8	1691.1	1664.7	1640.4	1615.3	1599.7	1581.5	1559.2	1534.1	1516.6
7.5°	1841.1	1801.3	1758.4	1714.2	1670.4	1631.2	1596.6	1566.8	1531.3	1495.4	1470.2
10°	1923.9	1865.7	1805.5	1743.9	1687.7	1635.0	1594.3	1554.4	1511.8	1470.5	1439.4
12.5°	1999.2	1922.5	1853.1	1777.4	1705.6	1642.5	1584.1	1537.1	1485.8	1441.8	1406.4
15°	2094.5	2015.9	1932.0	1817.0	1721.6	1641.8	1570.6	1509.1	1446.8	1392.7	1358.1
17.5°	2183.5	2065.4	1952.6	1856.7	1732.7	1632.9	1546.2	1472.6	1404.2	1346.8	1304.3
20°	2220.3	2105.9	1983.5	1861.0	1739.1	1627.5	1526.6	1445.4	1374.4	1309.4	1270.2
22.5°	2242.5	2113.0	1984.0	1852.4	1722.9	1607.0	1507.2	1417.9	1340.8	1279.1	1230.7
25°	2268.4	2114.1	1971.9	1842.0	1710.0	1584.2	1465.8	1371.1	1287.8	1222.2	1170.7
27.5°	2285.4	2103.9	1936.0	1791.6	1657.7	1532.3	1423.8	1323.4	1239.0	1169.5	1114.3
30°	2288.6	2095.8	1908.3	1752.0	1616.0	1501.0	1386.0	1289.9	1200.5	1126.7	1075.3
32.5°	2293.0	2075.8	1871.0	1705.0	1565.6	1451.7	1347.5	1255.7	1164.2	1091.6	1039.1
35°	2275.1	2064.7	1814.3	1623.4	1484.0	1373.7	1279.7	1195.1	1105.1	1034.7	981.3
37.5°	2198.2	2020.7	1755.6	1531.7	1386.0	1283.8	1207.1	1133.3	1050.9	974.9	924.5
40°	2120.8	1977.4	1710.0	1475.9	1323.7	1218.7	1149.8	1089.5	1009.7	938.6	884.5
42.5°	2005.5	1918.4	1666.7	1417.5	1253.3	1152.2	1094.0	1037.5	967.4	895.3	844.4
45°	1794.0	1805.5	1578.1	1324.3	1155.8	1054.3	999.5	960.3	898.0	838.4	786.4
47.5°	1528.7	1636.3	1474.0	1225.1	1053.1	957.9	909.9	875.6	833.7	775.2	727.7
50°	1355.5	1509.1	1390.7	1158.6	988.7	894.0	846.5	818.8	782.3	736.2	691.0
52.5°	1195.8	1360.7	1290.0	1084.3	918.9	832.2	785.9	763.1	734.1	690.8	649.8
55°	975.2	1142.3	1126.1	972.4	814.1	736.2	701.1	675.4	655.7	623.3	590.8
57.5°	788.8	947.3	955.6	847.9	721.8	644.9	614.6	595.2	582.4	557.9	527.9
60°	671.3	816.8	845.2	764.1	655.7	588.1	558.3	542.7	532.6	513.0	489.9
62.5°	573.9	697.7	729.9	671.4	592.4	529.1	505.8	490.8	483.9	466.9	446.6
65°	439.2	542.1	573.2	540.7	499.4	448.7	429.7	416.9	410.8	401.3	386.4
67.5°	330.3	405.2	439.4	416.5	401.6	369.5	357.4	350.5	345.1	338.6	326.1
70°	265.3	320.7	355.9	349.8	337.7	320.7	311.9	307.2	301.8	296.4	285.6
72.5°	213.3	251.5	284.5	287.6	277.6	274.2	266.5	264.5	261.2	254.7	248.7
75°	141.5	167.8	190.8	199.7	203.7	207.1	203.7	203.0	202.3	196.9	193.6
77.5°	92.7	106.9	121.4	136.5	142.8	147.4	148.4	150.9	149.1	146.3	144.6
80°	71.0	74.5	84.6	97.5	107.6	111.7	114.3	115.7	115.0	114.3	111.7
82.5°	51.6	54.4	59.2	68.2	76.7	83.5	85.2	84.9	86.4	86.8	84.6
85°	27.7	28.4	29.8	31.2	35.9	43.3	45.4	46.7	48.0	48.0	44.0
87.5°	13.3	12.1	12.4	11.7	12.8	12.7	15.4	17.6	18.7	17.1	17.7
90°	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3	4.1	7.0	9.9
92.5°	27.4	24.5	21.7	20.8	21.5	22.3	23.2	23.9	23.2	22.3	21.5
95°	33.6	30.5	27.3	31.6	43.3	55.1	66.8	78.5	66.8	55.1	43.3
97.5°	82.7	103.2	123.8	136.7	142.0	147.3	152.6	157.8	152.6	147.3	142.0
100°	131.7	176.3	220.9	240.4	234.7	228.9	223.3	217.6	223.3	228.9	234.7
102.5°	182.2	230.9	279.7	302.0	297.8	293.8	289.6	285.5	289.6	293.8	297.8
105°	333.4	359.1	384.9	396.1	393.0	389.9	386.8	383.6	386.8	389.9	393.0
107.5°	508.6	504.5	500.4	497.1	494.6	492.1	489.6	487.1	489.6	492.1	494.6
110°	574.2	571.1	567.9	565.2	562.9	560.6	558.4	556.0	558.4	560.6	562.9





TEST NUMBER: P332486-935

CATALOG NUMBER: S123RDIW-S1165D1535U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	639.1	635.9	632.8	630.2	628.2	626.1	624.1	622.0	624.1	626.1	628.2
115°	733.7	731.2	728.6	726.4	724.7	723.0	721.3	719.5	721.3	723.0	724.7
117.5°	826.8	825.5	824.2	822.5	820.4	818.2	816.1	814.0	816.1	818.2	820.4
120°	886.4	885.5	884.8	883.0	880.5	877.9	875.3	872.7	875.3	877.9	880.5
122.5°	944.7	943.6	942.5	940.9	938.7	936.7	934.5	932.5	934.5	936.7	938.7
125°	1027.4	1026.3	1025.2	1023.5	1021.1	1018.9	1016.6	1014.3	1016.6	1018.9	1021.1
127.5°	1107.3	1106.0	1104.6	1102.8	1100.4	1098.2	1095.9	1093.6	1095.9	1098.2	1100.4
130°	1156.2	1155.0	1153.9	1152.2	1149.9	1147.6	1145.3	1143.0	1145.3	1147.6	1149.9
132.5°	1203.0	1202.0	1201.2	1199.5	1197.2	1195.0	1192.7	1190.4	1192.7	1195.0	1197.2
135°	1273.3	1272.1	1271.0	1269.6	1267.9	1266.2	1264.5	1262.7	1264.5	1266.2	1267.9
137.5°	1335.8	1335.2	1334.6	1333.2	1331.0	1328.9	1326.7	1324.5	1326.7	1328.9	1331.0
140°	1375.5	1374.7	1373.8	1372.6	1370.9	1369.2	1367.4	1365.7	1367.4	1369.2	1370.9
142.5°	1413.7	1412.8	1412.0	1410.7	1408.9	1407.2	1405.5	1403.8	1405.5	1407.2	1408.9
145°	1467.5	1467.0	1466.4	1465.1	1463.1	1461.1	1459.1	1457.1	1459.1	1461.1	1463.1
147.5°	1514.7	1514.1	1513.5	1512.5	1511.2	1509.9	1508.6	1507.3	1508.6	1509.9	1511.2
150°	1543.5	1542.9	1542.3	1541.6	1540.8	1539.9	1539.0	1538.2	1539.0	1539.9	1540.8
152.5°	1568.7	1568.3	1568.0	1567.6	1567.2	1566.8	1566.4	1566.0	1566.4	1566.8	1567.2
155°	1603.3	1603.0	1602.7	1602.8	1603.4	1604.0	1604.6	1605.1	1604.6	1604.0	1603.4
157.5°	1634.5	1634.8	1635.1	1635.3	1635.3	1635.4	1635.5	1635.5	1635.5	1635.4	1635.3
160°	1652.0	1652.3	1652.6	1652.9	1653.2	1653.5	1653.7	1654.1	1653.7	1653.5	1653.2
162.5°	1667.5	1667.8	1668.0	1668.5	1669.3	1670.1	1670.8	1671.5	1670.8	1670.1	1669.3
165°	1688.1	1688.3	1688.7	1689.2	1690.1	1690.9	1691.8	1692.6	1691.8	1690.9	1690.1
167.5°	1704.0	1704.0	1704.0	1704.5	1705.7	1706.8	1708.0	1709.1	1708.0	1706.8	1705.7
170°	1713.2	1713.2	1713.2	1713.8	1714.9	1716.1	1717.3	1718.4	1717.3	1716.1	1714.9
172.5°	1719.0	1718.7	1718.5	1719.1	1720.5	1721.8	1723.2	1724.6	1723.2	1721.8	1720.5
175°	1726.8	1726.6	1726.2	1726.8	1728.3	1729.7	1731.1	1732.5	1731.1	1729.7	1728.3
177.5°	1730.0	1729.8	1729.6	1730.0	1731.2	1732.3	1733.5	1734.6	1733.5	1732.3	1731.2
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



TEST NUMBER: P332486-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1553.8	1546.7	1541.9	1531.0	1524.0	1516.4	1508.8	1513.7	1513.1	1512.6	1512.6
5°	1501.7	1486.1	1471.9	1453.6	1442.1	1427.9	1417.0	1415.7	1418.4	1408.9	1403.5
7.5°	1449.9	1428.7	1408.5	1388.4	1367.0	1350.0	1339.2	1334.2	1327.3	1321.5	1315.4
10°	1413.7	1388.6	1369.0	1343.9	1320.9	1300.6	1287.8	1279.0	1274.3	1269.5	1260.8
12.5°	1376.3	1351.9	1326.8	1298.5	1276.6	1253.0	1243.4	1233.6	1224.4	1219.2	1207.1
15°	1321.6	1289.9	1263.4	1233.6	1209.3	1186.3	1172.8	1153.1	1150.4	1143.7	1131.4
17.5°	1266.8	1232.3	1195.9	1173.8	1146.3	1122.4	1101.8	1095.2	1075.8	1068.5	1058.0
20°	1223.5	1191.7	1164.0	1134.9	1094.9	1072.6	1056.4	1047.6	1032.0	1022.5	1015.7
22.5°	1186.1	1153.8	1121.7	1087.8	1054.9	1029.8	1018.0	1004.3	995.7	982.5	975.2
25°	1132.8	1097.6	1059.0	1022.5	998.8	979.9	961.0	948.7	936.6	930.5	917.0
27.5°	1070.8	1034.1	998.0	970.3	941.2	922.5	905.3	894.5	879.9	869.6	862.1
30°	1036.7	993.4	962.3	937.3	900.0	882.4	869.6	856.1	845.2	834.4	827.0
32.5°	997.2	957.7	928.2	897.2	868.7	849.4	832.8	820.9	811.7	801.3	793.9
35°	935.2	902.1	871.6	840.5	819.5	799.9	780.2	770.1	761.3	751.8	745.1
37.5°	879.2	848.2	819.2	789.7	763.7	747.8	731.9	724.2	712.3	705.9	699.0
40°	844.6	814.1	783.0	754.6	727.5	715.3	701.1	689.6	678.7	674.0	666.6
42.5°	806.7	776.2	749.9	719.4	697.2	680.6	667.5	655.0	646.8	639.9	635.7
45°	750.4	723.4	697.7	667.3	646.3	632.1	617.2	605.6	598.2	593.5	586.0
47.5°	695.9	668.9	642.7	616.2	595.9	579.7	564.8	556.8	546.9	541.1	536.1
50°	656.4	632.1	604.3	580.0	559.6	543.4	531.2	521.1	512.3	504.8	501.4
52.5°	620.2	594.2	570.2	547.4	526.1	507.6	496.5	485.9	479.2	470.7	466.8
55°	560.3	535.3	515.0	492.7	471.7	456.1	442.6	433.1	426.4	416.9	411.5
57.5°	504.1	481.7	457.4	438.1	416.5	403.3	392.1	379.3	371.0	363.5	358.3
60°	466.2	440.6	419.6	401.3	382.4	365.4	355.2	345.1	336.3	328.9	324.2
62.5°	426.7	404.2	384.4	364.5	347.2	332.4	320.6	312.1	304.4	299.6	294.9
65°	366.1	348.5	328.2	311.9	295.8	284.9	275.4	267.9	262.6	259.2	255.1
67.5°	310.3	293.3	275.5	259.6	248.7	240.5	234.3	227.9	225.2	220.8	218.2
70°	274.1	256.5	240.9	228.8	217.9	211.8	207.8	203.0	200.3	194.9	192.2
72.5°	234.5	221.8	210.6	200.6	191.9	186.4	181.2	175.4	171.1	165.1	162.4
75°	184.8	173.2	164.5	157.6	152.2	144.8	137.4	131.3	129.2	127.3	126.6
77.5°	136.8	129.5	123.1	117.4	110.7	105.3	103.7	102.3	101.9	100.8	100.8
80°	107.6	100.8	96.1	89.3	85.2	85.2	85.2	83.9	84.6	84.6	84.6
82.5°	80.0	73.8	71.2	68.8	67.9	68.4	68.4	68.8	68.4	69.4	68.9
85°	41.2	41.9	43.3	42.6	43.3	43.3	44.7	44.0	44.7	43.3	44.7
87.5°	17.7	20.0	21.3	22.6	23.8	24.0	24.8	25.1	25.8	26.0	26.2
90°	12.7	16.0	19.7	23.4	27.2	30.9	32.0	33.1	34.4	35.5	36.3
92.5°	20.8	21.7	24.5	27.4	30.1	33.0	34.8	36.6	38.5	40.3	41.3
95°	31.6	27.3	30.5	33.6	36.8	39.9	41.9	43.9	45.9	47.9	48.9
97.5°	136.7	123.8	103.2	82.7	62.1	41.4	43.7	46.1	48.3	50.6	51.9
100°	240.4	220.9	176.3	131.7	87.1	42.4	44.8	47.0	49.3	51.7	53.0
102.5°	302.0	279.7	230.9	182.2	133.5	84.7	77.6	70.5	63.5	56.3	53.0
105°	396.1	384.9	359.1	333.4	307.6	281.9	231.3	180.6	130.0	79.4	54.3
107.5°	497.1	500.4	504.5	508.6	512.6	516.7	479.6	442.4	405.3	368.2	330.5
110°	565.2	567.9	571.1	574.2	577.4	580.5	571.1	561.6	552.2	542.8	517.5



TEST NUMBER: P332486-935

CATALOG NUMBER: S123RDIW-S1165D1535U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	630.2	632.8	635.9	639.1	642.2	645.4	645.6	645.8	645.9	646.1	641.9
115°	726.4	728.6	731.2	733.7	736.2	738.8	741.7	744.6	747.4	750.3	752.3
117.5°	822.5	824.2	825.5	826.8	828.1	829.5	831.7	834.1	836.3	838.6	839.9
120°	883.0	884.8	885.5	886.4	887.3	888.1	890.4	892.8	895.0	897.3	898.5
122.5°	940.9	942.5	943.6	944.7	945.7	946.8	948.5	950.0	951.7	953.3	954.2
125°	1023.5	1025.2	1026.3	1027.4	1028.6	1029.8	1030.4	1030.9	1031.5	1032.0	1032.6
127.5°	1102.8	1104.6	1106.0	1107.3	1108.7	1110.1	1110.9	1111.9	1112.8	1113.7	1113.9
130°	1152.2	1153.9	1155.0	1156.2	1157.4	1158.5	1159.6	1160.7	1161.9	1163.0	1163.3
132.5°	1199.5	1201.2	1202.0	1203.0	1203.9	1204.8	1205.9	1207.1	1208.2	1209.4	1209.5
135°	1269.6	1271.0	1272.1	1273.3	1274.5	1275.6	1276.4	1277.3	1278.2	1279.0	1279.0
137.5°	1333.2	1334.6	1335.2	1335.8	1336.5	1337.1	1338.5	1339.9	1341.3	1342.6	1343.0
140°	1372.6	1373.8	1374.7	1375.5	1376.4	1377.3	1378.5	1379.6	1380.7	1381.8	1382.2
142.5°	1410.7	1412.0	1412.8	1413.7	1414.5	1415.4	1416.3	1417.2	1418.2	1419.0	1419.1
145°	1465.1	1466.4	1467.0	1467.5	1468.1	1468.7	1469.2	1469.8	1470.4	1470.9	1471.3
147.5°	1512.5	1513.5	1514.1	1514.7	1515.2	1515.8	1516.4	1516.9	1517.5	1518.1	1517.7
150°	1541.6	1542.3	1542.9	1543.5	1544.0	1544.6	1545.2	1545.8	1546.4	1546.9	1546.8
152.5°	1567.6	1568.0	1568.3	1568.7	1569.0	1569.3	1570.4	1571.4	1572.4	1573.5	1573.3
155°	1602.8	1602.7	1603.0	1603.3	1603.5	1603.8	1605.2	1606.7	1608.1	1609.6	1609.4
157.5°	1635.3	1635.1	1634.8	1634.5	1634.3	1633.9	1635.6	1637.4	1639.1	1640.8	1640.5
160°	1652.9	1652.6	1652.3	1652.0	1651.7	1651.5	1653.2	1654.9	1656.6	1658.3	1658.2
162.5°	1668.5	1668.0	1667.8	1667.5	1667.2	1666.9	1668.9	1670.8	1672.8	1674.6	1674.7
165°	1689.2	1688.7	1688.3	1688.1	1687.8	1687.5	1689.8	1692.0	1694.4	1696.7	1696.8
167.5°	1704.5	1704.0	1704.0	1704.0	1704.0	1704.0	1706.2	1708.6	1710.8	1713.1	1713.1
170°	1713.8	1713.2	1713.2	1713.2	1713.2	1713.2	1715.5	1717.8	1720.1	1722.4	1722.4
172.5°	1719.1	1718.5	1718.7	1719.0	1719.2	1719.4	1721.7	1724.0	1726.3	1728.5	1728.5
175°	1726.8	1726.2	1726.6	1726.8	1727.1	1727.4	1729.4	1731.4	1733.4	1735.4	1735.3
177.5°	1730.0	1729.6	1729.8	1730.0	1730.3	1730.5	1732.3	1734.1	1735.9	1737.8	1737.6
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



TEST NUMBER: P332486-935

CATALOG NUMBER: S123RDIW-S1165D1535U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1506.1	1505.5	1506.1	1503.9	1506.1	1505.5	1506.1	1512.6	1512.6	1513.1	1513.7
5°	1401.4	1400.8	1398.8	1392.7	1398.8	1400.8	1401.4	1403.5	1408.9	1418.4	1415.7
7.5°	1310.1	1309.2	1303.2	1303.4	1303.2	1309.2	1310.1	1315.4	1321.5	1327.3	1334.2
10°	1256.0	1256.6	1248.5	1243.8	1248.5	1256.6	1256.0	1260.8	1269.5	1274.3	1279.0
12.5°	1203.5	1200.4	1193.9	1188.6	1193.9	1200.4	1203.5	1207.1	1219.2	1224.4	1233.6
15°	1134.2	1127.4	1111.2	1112.5	1111.2	1127.4	1134.2	1131.4	1143.7	1150.4	1153.1
17.5°	1052.6	1047.6	1047.3	1037.8	1047.3	1047.6	1052.6	1058.0	1068.5	1075.8	1095.2
20°	1005.0	1001.5	1002.9	993.4	1002.9	1001.5	1005.0	1015.7	1022.5	1032.0	1047.6
22.5°	967.6	964.1	958.5	955.5	958.5	964.1	967.6	975.2	982.5	995.7	1004.3
25°	912.9	907.5	902.1	905.4	902.1	907.5	912.9	917.0	930.5	936.6	948.7
27.5°	858.2	854.2	848.8	848.1	848.8	854.2	858.2	862.1	869.6	879.9	894.5
30°	823.5	819.5	816.8	813.4	816.8	819.5	823.5	827.0	834.4	845.2	856.1
32.5°	788.4	787.6	782.7	782.0	782.7	787.6	788.4	793.9	801.3	811.7	820.9
35°	742.4	738.3	736.9	737.6	736.9	738.3	742.4	745.1	751.8	761.3	770.1
37.5°	698.6	693.2	690.8	688.4	690.8	693.2	698.6	699.0	705.9	712.3	724.2
40°	667.3	661.9	660.5	659.1	660.5	661.9	667.3	666.6	674.0	678.7	689.6
42.5°	632.1	629.9	629.0	626.6	629.0	629.9	632.1	635.7	639.9	646.8	655.0
45°	584.0	583.3	579.3	580.7	579.3	583.3	584.0	586.0	593.5	598.2	605.6
47.5°	533.4	530.4	527.5	529.4	527.5	530.4	533.4	536.1	541.1	546.9	556.8
50°	498.8	497.4	491.3	492.7	491.3	497.4	498.8	501.4	504.8	512.3	521.1
52.5°	464.1	458.9	456.7	455.8	456.7	458.9	464.1	466.8	470.7	479.2	485.9
55°	406.7	400.6	397.9	396.6	397.9	400.6	406.7	411.5	416.9	426.4	433.1
57.5°	350.4	348.8	346.6	348.1	346.6	348.8	350.4	358.3	363.5	371.0	379.3
60°	317.4	317.4	317.4	316.7	317.4	317.4	317.4	324.2	328.9	336.3	345.1
62.5°	292.0	290.3	289.8	290.8	289.8	290.3	292.0	294.9	299.6	304.4	312.1
65°	253.1	252.4	249.7	249.0	249.7	252.4	253.1	255.1	259.2	262.6	267.9
67.5°	216.5	214.0	213.2	212.2	213.2	214.0	216.5	218.2	220.8	225.2	227.9
70°	188.8	187.4	183.4	184.1	183.4	187.4	188.8	192.2	194.9	200.3	203.0
72.5°	159.0	157.6	156.9	155.9	156.9	157.6	159.0	162.4	165.1	171.1	175.4
75°	125.9	125.2	124.5	127.3	124.5	125.2	125.9	126.6	127.3	129.2	131.3
77.5°	100.8	100.8	101.3	100.1	101.3	100.8	100.8	100.8	100.8	101.9	102.3
80°	84.6	84.6	83.9	83.9	83.9	84.6	84.6	84.6	84.6	84.6	83.9
82.5°	67.8	68.4	68.8	67.7	68.8	68.4	67.8	68.9	69.4	68.4	68.8
85°	44.7	44.0	45.4	44.7	45.4	44.0	44.7	44.7	43.3	44.7	44.0
87.5°	27.4	26.4	26.5	27.2	26.5	26.4	27.4	26.2	26.0	25.8	25.1
90°	36.9	37.5	38.1	38.6	38.1	37.5	36.9	36.3	35.5	34.4	33.1
92.5°	41.7	42.0	42.4	42.7	42.4	42.0	41.7	41.3	40.3	38.5	36.6
95°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9
97.5°	52.2	52.4	52.8	53.0	52.8	52.4	52.2	51.9	50.6	48.3	46.1
100°	53.2	53.5	53.8	54.1	53.8	53.5	53.2	53.0	51.7	49.3	47.0
102.5°	53.6	54.1	54.6	55.1	54.6	54.1	53.6	53.0	56.3	63.5	70.5
105°	54.9	55.5	56.1	56.7	56.1	55.5	54.9	54.3	79.4	130.0	180.6
107.5°	292.4	254.2	216.0	177.9	216.0	254.2	292.4	330.5	368.2	405.3	442.4
110°	476.6	435.8	394.9	354.0	394.9	435.8	476.6	517.5	542.8	552.2	561.6



TEST NUMBER: P332486-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	633.2	624.6	616.0	607.3	616.0	624.6	633.2	641.9	646.1	645.9	645.8
115°	753.5	754.6	755.7	756.9	755.7	754.6	753.5	752.3	750.3	747.4	744.6
117.5°	840.1	840.3	840.6	840.8	840.6	840.3	840.1	839.9	838.6	836.3	834.1
120°	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	897.3	895.0	892.8
122.5°	954.4	954.6	954.8	955.1	954.8	954.6	954.4	954.2	953.3	951.7	950.0
125°	1033.2	1033.7	1034.3	1034.9	1034.3	1033.7	1033.2	1032.6	1032.0	1031.5	1030.9
127.5°	1113.4	1112.8	1112.2	1111.6	1112.2	1112.8	1113.4	1113.9	1113.7	1112.8	1111.9
130°	1162.8	1162.2	1161.6	1161.1	1161.6	1162.2	1162.8	1163.3	1163.0	1161.9	1160.7
132.5°	1208.8	1208.0	1207.1	1206.3	1207.1	1208.0	1208.8	1209.5	1209.4	1208.2	1207.1
135°	1278.2	1277.3	1276.4	1275.6	1276.4	1277.3	1278.2	1279.0	1279.0	1278.2	1277.3
137.5°	1342.5	1341.9	1341.3	1340.7	1341.3	1341.9	1342.5	1343.0	1342.6	1341.3	1339.9
140°	1381.6	1381.0	1380.4	1379.8	1380.4	1381.0	1381.6	1382.2	1381.8	1380.7	1379.6
142.5°	1418.3	1417.5	1416.7	1415.9	1416.7	1417.5	1418.3	1419.1	1419.0	1418.2	1417.2
145°	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1470.9	1470.4	1469.8
147.5°	1516.4	1515.1	1513.7	1512.4	1513.7	1515.1	1516.4	1517.7	1518.1	1517.5	1516.9
150°	1545.9	1545.1	1544.2	1543.3	1544.2	1545.1	1545.9	1546.8	1546.9	1546.4	1545.8
152.5°	1572.0	1570.6	1569.3	1568.1	1569.3	1570.6	1572.0	1573.3	1573.5	1572.4	1571.4
155°	1607.7	1605.9	1604.2	1602.6	1604.2	1605.9	1607.7	1609.4	1609.6	1608.1	1606.7
157.5°	1638.3	1636.1	1633.8	1631.6	1633.8	1636.1	1638.3	1640.5	1640.8	1639.1	1637.4
160°	1656.1	1654.2	1652.2	1650.2	1652.2	1654.2	1656.1	1658.2	1658.3	1656.6	1654.9
162.5°	1673.0	1671.2	1669.5	1667.7	1669.5	1671.2	1673.0	1674.7	1674.6	1672.8	1670.8
165°	1694.8	1692.8	1690.7	1688.8	1690.7	1692.8	1694.8	1696.8	1696.7	1694.4	1692.0
167.5°	1710.8	1708.6	1706.2	1704.0	1706.2	1708.6	1710.8	1713.1	1713.1	1710.8	1708.6
170°	1720.1	1717.8	1715.5	1713.2	1715.5	1717.8	1720.1	1722.4	1722.4	1720.1	1717.8
172.5°	1726.0	1723.5	1720.9	1718.4	1720.9	1723.5	1726.0	1728.5	1728.5	1726.3	1724.0
175°	1732.9	1730.7	1728.4	1726.1	1728.4	1730.7	1732.9	1735.3	1735.4	1733.4	1731.4
177.5°	1735.3	1733.0	1730.7	1728.5	1730.7	1733.0	1735.3	1737.6	1737.8	1735.9	1734.1
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1508.8	1516.4	1524.0	1531.0	1541.9	1546.7	1553.8	1556.4	1564.6	1576.5	1586.2
5°	1417.0	1427.9	1442.1	1453.6	1471.9	1486.1	1501.7	1516.6	1534.1	1559.2	1581.5
7.5°	1339.2	1350.0	1367.0	1388.4	1408.5	1428.7	1449.9	1470.2	1495.4	1531.3	1566.8
10°	1287.8	1300.6	1320.9	1343.9	1369.0	1388.6	1413.7	1439.4	1470.5	1511.8	1554.4
12.5°	1243.4	1253.0	1276.6	1298.5	1326.8	1351.9	1376.3	1406.4	1441.8	1485.8	1537.1
15°	1172.8	1186.3	1209.3	1233.6	1263.4	1289.9	1321.6	1358.1	1392.7	1446.8	1509.1
17.5°	1101.8	1122.4	1146.3	1173.8	1195.9	1232.3	1266.8	1304.3	1346.8	1404.2	1472.6
20°	1056.4	1072.6	1094.9	1134.9	1164.0	1191.7	1223.5	1270.2	1309.4	1374.4	1445.4
22.5°	1018.0	1029.8	1054.9	1087.8	1121.7	1153.8	1186.1	1230.7	1279.1	1340.8	1417.9
25°	961.0	979.9	998.8	1022.5	1059.0	1097.6	1132.8	1170.7	1222.2	1287.8	1371.1
27.5°	905.3	922.5	941.2	970.3	998.0	1034.1	1070.8	1114.3	1169.5	1239.0	1323.4
30°	869.6	882.4	900.0	937.3	962.3	993.4	1036.7	1075.3	1126.7	1200.5	1289.9
32.5°	832.8	849.4	868.7	897.2	928.2	957.7	997.2	1039.1	1091.6	1164.2	1255.7
35°	780.2	799.9	819.5	840.5	871.6	902.1	935.2	981.3	1034.7	1105.1	1195.1
37.5°	731.9	747.8	763.7	789.7	819.2	848.2	879.2	924.5	974.9	1050.9	1133.3
40°	701.1	715.3	727.5	754.6	783.0	814.1	844.6	884.5	938.6	1009.7	1089.5
42.5°	667.5	680.6	697.2	719.4	749.9	776.2	806.7	844.4	895.3	967.4	1037.5
45°	617.2	632.1	646.3	667.3	697.7	723.4	750.4	786.4	838.4	898.0	960.3
47.5°	564.8	579.7	595.9	616.2	642.7	668.9	695.9	727.7	775.2	833.7	875.6
50°	531.2	543.4	559.6	580.0	604.3	632.1	656.4	691.0	736.2	782.3	818.8
52.5°	496.5	507.6	526.1	547.4	570.2	594.2	620.2	649.8	690.8	734.1	763.1
55°	442.6	456.1	471.7	492.7	515.0	535.3	560.3	590.8	623.3	655.7	675.4
57.5°	392.1	403.3	416.5	438.1	457.4	481.7	504.1	527.9	557.9	582.4	595.2
60°	355.2	365.4	382.4	401.3	419.6	440.6	466.2	489.9	513.0	532.6	542.7
62.5°	320.6	332.4	347.2	364.5	384.4	404.2	426.7	446.6	466.9	483.9	490.8
65°	275.4	284.9	295.8	311.9	328.2	348.5	366.1	386.4	401.3	410.8	416.9
67.5°	234.3	240.5	248.7	259.6	275.5	293.3	310.3	326.1	338.6	345.1	350.5
70°	207.8	211.8	217.9	228.8	240.9	256.5	274.1	285.6	296.4	301.8	307.2
72.5°	181.2	186.4	191.9	200.6	210.6	221.8	234.5	248.7	254.7	261.2	264.5
75°	137.4	144.8	152.2	157.6	164.5	173.2	184.8	193.6	196.9	202.3	203.0
77.5°	103.7	105.3	110.7	117.4	123.1	129.5	136.8	144.6	146.3	149.1	150.9
80°	85.2	85.2	85.2	89.3	96.1	100.8	107.6	111.7	114.3	115.0	115.7
82.5°	68.4	68.4	67.9	68.8	71.2	73.8	80.0	84.6	86.8	86.4	84.9
85°	44.7	43.3	43.3	42.6	43.3	41.9	41.2	44.0	48.0	48.0	46.7
87.5°	24.8	24.0	23.8	22.6	21.3	20.0	17.7	17.7	17.1	18.7	17.6
90°	32.0	30.9	27.2	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3
92.5°	34.8	33.0	30.1	27.4	24.5	21.7	20.8	21.5	22.3	23.2	23.9
95°	41.9	39.9	36.8	33.6	30.5	27.3	31.6	43.3	55.1	66.8	78.5
97.5°	43.7	41.4	62.1	82.7	103.2	123.8	136.7	142.0	147.3	152.6	157.8
100°	44.8	42.4	87.1	131.7	176.3	220.9	240.4	234.7	228.9	223.3	217.6
102.5°	77.6	84.7	133.5	182.2	230.9	279.7	302.0	297.8	293.8	289.6	285.5
105°	231.3	281.9	307.6	333.4	359.1	384.9	396.1	393.0	389.9	386.8	383.6
107.5°	479.6	516.7	512.6	508.6	504.5	500.4	497.1	494.6	492.1	489.6	487.1
110°	571.1	580.5	577.4	574.2	571.1	567.9	565.2	562.9	560.6	558.4	556.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	645.6	645.4	642.2	639.1	635.9	632.8	630.2	628.2	626.1	624.1	622.0
115°	741.7	738.8	736.2	733.7	731.2	728.6	726.4	724.7	723.0	721.3	719.5
117.5°	831.7	829.5	828.1	826.8	825.5	824.2	822.5	820.4	818.2	816.1	814.0
120°	890.4	888.1	887.3	886.4	885.5	884.8	883.0	880.5	877.9	875.3	872.7
122.5°	948.5	946.8	945.7	944.7	943.6	942.5	940.9	938.7	936.7	934.5	932.5
125°	1030.4	1029.8	1028.6	1027.4	1026.3	1025.2	1023.5	1021.1	1018.9	1016.6	1014.3
127.5°	1110.9	1110.1	1108.7	1107.3	1106.0	1104.6	1102.8	1100.4	1098.2	1095.9	1093.6
130°	1159.6	1158.5	1157.4	1156.2	1155.0	1153.9	1152.2	1149.9	1147.6	1145.3	1143.0
132.5°	1205.9	1204.8	1203.9	1203.0	1202.0	1201.2	1199.5	1197.2	1195.0	1192.7	1190.4
135°	1276.4	1275.6	1274.5	1273.3	1272.1	1271.0	1269.6	1267.9	1266.2	1264.5	1262.7
137.5°	1338.5	1337.1	1336.5	1335.8	1335.2	1334.6	1333.2	1331.0	1328.9	1326.7	1324.5
140°	1378.5	1377.3	1376.4	1375.5	1374.7	1373.8	1372.6	1370.9	1369.2	1367.4	1365.7
142.5°	1416.3	1415.4	1414.5	1413.7	1412.8	1412.0	1410.7	1408.9	1407.2	1405.5	1403.8
145°	1469.2	1468.7	1468.1	1467.5	1467.0	1466.4	1465.1	1463.1	1461.1	1459.1	1457.1
147.5°	1516.4	1515.8	1515.2	1514.7	1514.1	1513.5	1512.5	1511.2	1509.9	1508.6	1507.3
150°	1545.2	1544.6	1544.0	1543.5	1542.9	1542.3	1541.6	1540.8	1539.9	1539.0	1538.2
152.5°	1570.4	1569.3	1569.0	1568.7	1568.3	1568.0	1567.6	1567.2	1566.8	1566.4	1566.0
155°	1605.2	1603.8	1603.5	1603.3	1603.0	1602.7	1602.8	1603.4	1604.0	1604.6	1605.1
157.5°	1635.6	1633.9	1634.3	1634.5	1634.8	1635.1	1635.3	1635.3	1635.4	1635.5	1635.5
160°	1653.2	1651.5	1651.7	1652.0	1652.3	1652.6	1652.9	1653.2	1653.5	1653.7	1654.1
162.5°	1668.9	1666.9	1667.2	1667.5	1667.8	1668.0	1668.5	1669.3	1670.1	1670.8	1671.5
165°	1689.8	1687.5	1687.8	1688.1	1688.3	1688.7	1689.2	1690.1	1690.9	1691.8	1692.6
167.5°	1706.2	1704.0	1704.0	1704.0	1704.0	1704.0	1704.5	1705.7	1706.8	1708.0	1709.1
170°	1715.5	1713.2	1713.2	1713.2	1713.2	1713.2	1713.8	1714.9	1716.1	1717.3	1718.4
172.5°	1721.7	1719.4	1719.2	1719.0	1718.7	1718.5	1719.1	1720.5	1721.8	1723.2	1724.6
175°	1729.4	1727.4	1727.1	1726.8	1726.6	1726.2	1726.8	1728.3	1729.7	1731.1	1732.5
177.5°	1732.3	1730.5	1730.3	1730.0	1729.8	1729.6	1730.0	1731.2	1732.3	1733.5	1734.6
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



TEST NUMBER: P332486-935

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1589.5	1595.4	1603.0	1614.4	1623.1	1630.6	1632.3	1634.4	1639.9	1649.0	1656.0
5°	1599.7	1615.3	1640.4	1664.7	1691.1	1712.8	1733.1	1747.3	1760.8	1789.2	1812.2
7.5°	1596.6	1631.2	1670.4	1714.2	1758.4	1801.3	1841.1	1876.6	1912.1	1953.5	2000.8
10°	1594.3	1635.0	1687.7	1743.9	1805.5	1865.7	1923.9	1969.3	2022.1	2069.4	2129.6
12.5°	1584.1	1642.5	1705.6	1777.4	1853.1	1922.5	1999.2	2061.8	2122.2	2190.6	2260.6
15°	1570.6	1641.8	1721.6	1817.0	1932.0	2015.9	2094.5	2203.4	2277.9	2352.3	2452.5
17.5°	1546.2	1632.9	1732.7	1856.7	1952.6	2065.4	2183.5	2269.6	2369.9	2474.8	2565.4
20°	1526.6	1627.5	1739.1	1861.0	1983.5	2105.9	2220.3	2323.2	2426.7	2547.9	2622.3
22.5°	1507.2	1607.0	1722.9	1852.4	1984.0	2113.0	2242.5	2363.3	2479.8	2602.0	2697.0
25°	1465.8	1584.2	1710.0	1842.0	1971.9	2114.1	2268.4	2403.1	2547.2	2673.1	2763.0
27.5°	1423.8	1532.3	1657.7	1791.6	1936.0	2103.9	2285.4	2438.5	2582.9	2673.1	2701.3
30°	1386.0	1501.0	1616.0	1752.0	1908.3	2095.8	2288.6	2463.9	2582.4	2621.6	2592.5
32.5°	1347.5	1451.7	1565.6	1705.0	1871.0	2075.8	2293.0	2448.8	2520.1	2490.1	2371.6
35°	1279.7	1373.7	1484.0	1623.4	1814.3	2064.7	2275.1	2380.7	2363.1	2193.9	1970.6
37.5°	1207.1	1283.8	1386.0	1531.7	1755.6	2020.7	2198.2	2213.8	2061.6	1801.8	1543.9
40°	1149.8	1218.7	1323.7	1475.9	1710.0	1977.4	2120.8	2057.9	1821.7	1532.8	1317.6
42.5°	1094.0	1152.2	1253.3	1417.5	1666.7	1918.4	2005.5	1868.5	1595.9	1322.8	1127.0
45°	999.5	1054.3	1155.8	1324.3	1578.1	1805.5	1794.0	1555.7	1283.1	1063.2	900.7
47.5°	909.9	957.9	1053.1	1225.1	1474.0	1636.3	1528.7	1275.2	1043.9	867.5	751.6
50°	846.5	894.0	988.7	1158.6	1390.7	1509.1	1355.5	1111.2	899.4	753.2	661.2
52.5°	785.9	832.2	918.9	1084.3	1290.0	1360.7	1195.8	969.3	792.7	666.6	587.5
55°	701.1	736.2	814.1	972.4	1126.1	1142.3	975.2	785.7	640.2	552.2	498.1
57.5°	614.6	644.9	721.8	847.9	955.6	947.3	788.8	624.9	526.9	461.5	422.2
60°	558.3	588.1	655.7	764.1	845.2	816.8	671.3	539.3	455.5	407.4	376.3
62.5°	505.8	529.1	592.4	671.4	729.9	697.7	573.9	464.6	398.0	357.6	332.9
65°	429.7	448.7	499.4	540.7	573.2	542.1	439.2	363.4	315.4	287.0	270.0
67.5°	357.4	369.5	401.6	416.5	439.4	405.2	330.3	279.5	252.2	228.2	216.5
70°	311.9	320.7	337.7	349.8	355.9	320.7	265.3	228.1	205.0	188.1	180.7
72.5°	266.5	274.2	277.6	287.6	284.5	251.5	213.3	183.7	167.1	155.7	146.0
75°	203.7	207.1	203.7	199.7	190.8	167.8	141.5	126.6	114.3	108.9	105.6
77.5°	148.4	147.4	142.8	136.5	121.4	106.9	92.7	87.7	82.4	79.6	78.4
80°	114.3	111.7	107.6	97.5	84.6	74.5	71.0	67.7	65.6	62.3	61.6
82.5°	85.2	83.5	76.7	68.2	59.2	54.4	51.6	50.4	48.3	46.6	46.4
85°	45.4	43.3	35.9	31.2	29.8	28.4	27.7	27.7	25.1	24.4	24.4
87.5°	15.4	12.7	12.8	11.7	12.4	12.1	13.3	13.0	13.2	13.9	13.2
90°	4.1	7.0	9.9	12.7	16.0	19.7	23.4	27.2	30.9	32.0	33.1
92.5°	23.2	22.3	21.5	20.8	21.7	24.5	27.4	30.1	33.0	34.8	36.6
95°	66.8	55.1	43.3	31.6	27.3	30.5	33.6	36.8	39.9	41.9	43.9
97.5°	152.6	147.3	142.0	136.7	123.8	103.2	82.7	62.1	41.4	43.7	46.1
100°	223.3	228.9	234.7	240.4	220.9	176.3	131.7	87.1	42.4	44.8	47.0
102.5°	289.6	293.8	297.8	302.0	279.7	230.9	182.2	133.5	84.7	77.6	70.5
105°	386.8	389.9	393.0	396.1	384.9	359.1	333.4	307.6	281.9	231.3	180.6
107.5°	489.6	492.1	494.6	497.1	500.4	504.5	508.6	512.6	516.7	479.6	442.4
110°	558.4	560.6	562.9	565.2	567.9	571.1	574.2	577.4	580.5	571.1	561.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	624.1	626.1	628.2	630.2	632.8	635.9	639.1	642.2	645.4	645.6	645.8
115°	721.3	723.0	724.7	726.4	728.6	731.2	733.7	736.2	738.8	741.7	744.6
117.5°	816.1	818.2	820.4	822.5	824.2	825.5	826.8	828.1	829.5	831.7	834.1
120°	875.3	877.9	880.5	883.0	884.8	885.5	886.4	887.3	888.1	890.4	892.8
122.5°	934.5	936.7	938.7	940.9	942.5	943.6	944.7	945.7	946.8	948.5	950.0
125°	1016.6	1018.9	1021.1	1023.5	1025.2	1026.3	1027.4	1028.6	1029.8	1030.4	1030.9
127.5°	1095.9	1098.2	1100.4	1102.8	1104.6	1106.0	1107.3	1108.7	1110.1	1110.9	1111.9
130°	1145.3	1147.6	1149.9	1152.2	1153.9	1155.0	1156.2	1157.4	1158.5	1159.6	1160.7
132.5°	1192.7	1195.0	1197.2	1199.5	1201.2	1202.0	1203.0	1203.9	1204.8	1205.9	1207.1
135°	1264.5	1266.2	1267.9	1269.6	1271.0	1272.1	1273.3	1274.5	1275.6	1276.4	1277.3
137.5°	1326.7	1328.9	1331.0	1333.2	1334.6	1335.2	1335.8	1336.5	1337.1	1338.5	1339.9
140°	1367.4	1369.2	1370.9	1372.6	1373.8	1374.7	1375.5	1376.4	1377.3	1378.5	1379.6
142.5°	1405.5	1407.2	1408.9	1410.7	1412.0	1412.8	1413.7	1414.5	1415.4	1416.3	1417.2
145°	1459.1	1461.1	1463.1	1465.1	1466.4	1467.0	1467.5	1468.1	1468.7	1469.2	1469.8
147.5°	1508.6	1509.9	1511.2	1512.5	1513.5	1514.1	1514.7	1515.2	1515.8	1516.4	1516.9
150°	1539.0	1539.9	1540.8	1541.6	1542.3	1542.9	1543.5	1544.0	1544.6	1545.2	1545.8
152.5°	1566.4	1566.8	1567.2	1567.6	1568.0	1568.3	1568.7	1569.0	1569.3	1570.4	1571.4
155°	1604.6	1604.0	1603.4	1602.8	1602.7	1603.0	1603.3	1603.5	1603.8	1605.2	1606.7
157.5°	1635.5	1635.4	1635.3	1635.3	1635.1	1634.8	1634.5	1634.3	1633.9	1635.6	1637.4
160°	1653.7	1653.5	1653.2	1652.9	1652.6	1652.3	1652.0	1651.7	1651.5	1653.2	1654.9
162.5°	1670.8	1670.1	1669.3	1668.5	1668.0	1667.8	1667.5	1667.2	1666.9	1668.9	1670.8
165°	1691.8	1690.9	1690.1	1689.2	1688.7	1688.3	1688.1	1687.8	1687.5	1689.8	1692.0
167.5°	1708.0	1706.8	1705.7	1704.5	1704.0	1704.0	1704.0	1704.0	1704.0	1706.2	1708.6
170°	1717.3	1716.1	1714.9	1713.8	1713.2	1713.2	1713.2	1713.2	1713.2	1715.5	1717.8
172.5°	1723.2	1721.8	1720.5	1719.1	1718.5	1718.7	1719.0	1719.2	1719.4	1721.7	1724.0
175°	1731.1	1729.7	1728.3	1726.8	1726.2	1726.6	1726.8	1727.1	1727.4	1729.4	1731.4
177.5°	1733.5	1732.3	1731.2	1730.0	1729.6	1729.8	1730.0	1730.3	1730.5	1732.3	1734.1
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1667.4	1667.4	1669.6	1677.7	1678.8	1685.8	1683.7
5°	1832.6	1845.4	1850.1	1870.4	1882.7	1888.1	1877.2
7.5°	2034.5	2070.8	2087.9	2109.2	2128.0	2133.7	2118.9
10°	2181.8	2219.7	2251.4	2271.1	2289.3	2301.5	2317.1
12.5°	2324.1	2370.7	2400.9	2428.6	2447.4	2462.9	2465.4
15°	2478.8	2549.2	2602.6	2641.9	2661.5	2671.7	2667.6
17.5°	2634.8	2700.1	2738.2	2778.2	2805.4	2806.8	2807.5
20°	2723.1	2786.7	2830.7	2860.5	2891.0	2889.6	2896.3
22.5°	2782.1	2832.2	2865.9	2887.5	2898.0	2892.9	2894.2
25°	2809.7	2824.6	2818.6	2784.0	2775.3	2743.4	2748.8
27.5°	2667.4	2596.9	2524.2	2430.5	2356.6	2297.6	2300.6
30°	2474.1	2349.6	2207.4	2088.4	1981.4	1951.6	1888.1
32.5°	2203.9	2017.2	1850.7	1739.7	1648.0	1623.1	1567.5
35°	1745.9	1564.6	1393.4	1290.5	1249.9	1193.1	1192.4
37.5°	1357.1	1197.4	1106.8	1029.7	989.2	954.8	951.5
40°	1141.6	1017.1	948.7	893.3	853.3	827.6	821.6
42.5°	991.1	890.4	826.4	792.0	761.3	748.0	738.1
45°	809.3	741.7	697.0	665.9	651.7	641.5	636.1
47.5°	677.0	631.6	601.2	580.5	568.9	558.3	561.1
50°	605.0	567.7	545.4	525.8	517.0	509.5	510.2
52.5°	547.1	513.7	495.6	481.4	470.5	465.2	462.6
55°	464.3	443.2	425.0	414.8	408.7	401.3	399.2
57.5°	396.0	379.8	364.9	353.4	351.9	344.7	345.7
60°	350.5	337.0	324.9	318.7	314.0	307.9	310.0
62.5°	313.1	301.8	290.8	285.7	280.9	276.5	277.4
65°	256.5	245.6	238.8	236.2	234.1	232.1	230.1
67.5°	204.4	197.8	193.6	187.7	183.6	182.9	180.8
70°	171.9	163.1	155.7	148.2	146.2	145.5	146.2
72.5°	137.8	132.2	130.2	126.6	126.1	124.4	125.6
75°	103.6	101.5	100.1	97.5	97.5	97.5	97.5
77.5°	76.4	75.1	74.3	73.8	73.1	72.2	72.0
80°	59.6	58.9	57.5	57.5	56.8	57.5	56.8
82.5°	44.9	44.8	43.5	43.5	42.8	42.4	42.8
85°	23.0	22.3	23.7	22.3	23.0	21.7	23.0
87.5°	13.3	13.6	13.3	13.3	12.9	14.1	13.2
90°	34.4	35.5	36.3	36.9	37.5	38.1	38.6
92.5°	38.5	40.3	41.3	41.7	42.0	42.4	42.7
95°	45.9	47.9	48.9	48.9	48.9	48.9	48.9
97.5°	48.3	50.6	51.9	52.2	52.4	52.8	53.0
100°	49.3	51.7	53.0	53.2	53.5	53.8	54.1
102.5°	63.5	56.3	53.0	53.6	54.1	54.6	55.1
105°	130.0	79.4	54.3	54.9	55.5	56.1	56.7
107.5°	405.3	368.2	330.5	292.4	254.2	216.0	177.9
110°	552.2	542.8	517.5	476.6	435.8	394.9	354.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	645.9	646.1	641.9	633.2	624.6	616.0	607.3
115°	747.4	750.3	752.3	753.5	754.6	755.7	756.9
117.5°	836.3	838.6	839.9	840.1	840.3	840.6	840.8
120°	895.0	897.3	898.5	898.5	898.5	898.5	898.5
122.5°	951.7	953.3	954.2	954.4	954.6	954.8	955.1
125°	1031.5	1032.0	1032.6	1033.2	1033.7	1034.3	1034.9
127.5°	1112.8	1113.7	1113.9	1113.4	1112.8	1112.2	1111.6
130°	1161.9	1163.0	1163.3	1162.8	1162.2	1161.6	1161.1
132.5°	1208.2	1209.4	1209.5	1208.8	1208.0	1207.1	1206.3
135°	1278.2	1279.0	1279.0	1278.2	1277.3	1276.4	1275.6
137.5°	1341.3	1342.6	1343.0	1342.5	1341.9	1341.3	1340.7
140°	1380.7	1381.8	1382.2	1381.6	1381.0	1380.4	1379.8
142.5°	1418.2	1419.0	1419.1	1418.3	1417.5	1416.7	1415.9
145°	1470.4	1470.9	1471.3	1471.3	1471.3	1471.3	1471.3
147.5°	1517.5	1518.1	1517.7	1516.4	1515.1	1513.7	1512.4
150°	1546.4	1546.9	1546.8	1545.9	1545.1	1544.2	1543.3
152.5°	1572.4	1573.5	1573.3	1572.0	1570.6	1569.3	1568.1
155°	1608.1	1609.6	1609.4	1607.7	1605.9	1604.2	1602.6
157.5°	1639.1	1640.8	1640.5	1638.3	1636.1	1633.8	1631.6
160°	1656.6	1658.3	1658.2	1656.1	1654.2	1652.2	1650.2
162.5°	1672.8	1674.6	1674.7	1673.0	1671.2	1669.5	1667.7
165°	1694.4	1696.7	1696.8	1694.8	1692.8	1690.7	1688.8
167.5°	1710.8	1713.1	1713.1	1710.8	1708.6	1706.2	1704.0
170°	1720.1	1722.4	1722.4	1720.1	1717.8	1715.5	1713.2
172.5°	1726.3	1728.5	1728.5	1726.0	1723.5	1720.9	1718.4
175°	1733.4	1735.4	1735.3	1732.9	1730.7	1728.4	1726.1
177.5°	1735.9	1737.8	1737.6	1735.3	1733.0	1730.7	1728.5
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5

(END OF REPORT)