

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332487

Luminaire Tested: **S123RDIW-S1165D1535U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332487
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1165D1535U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9895.7 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

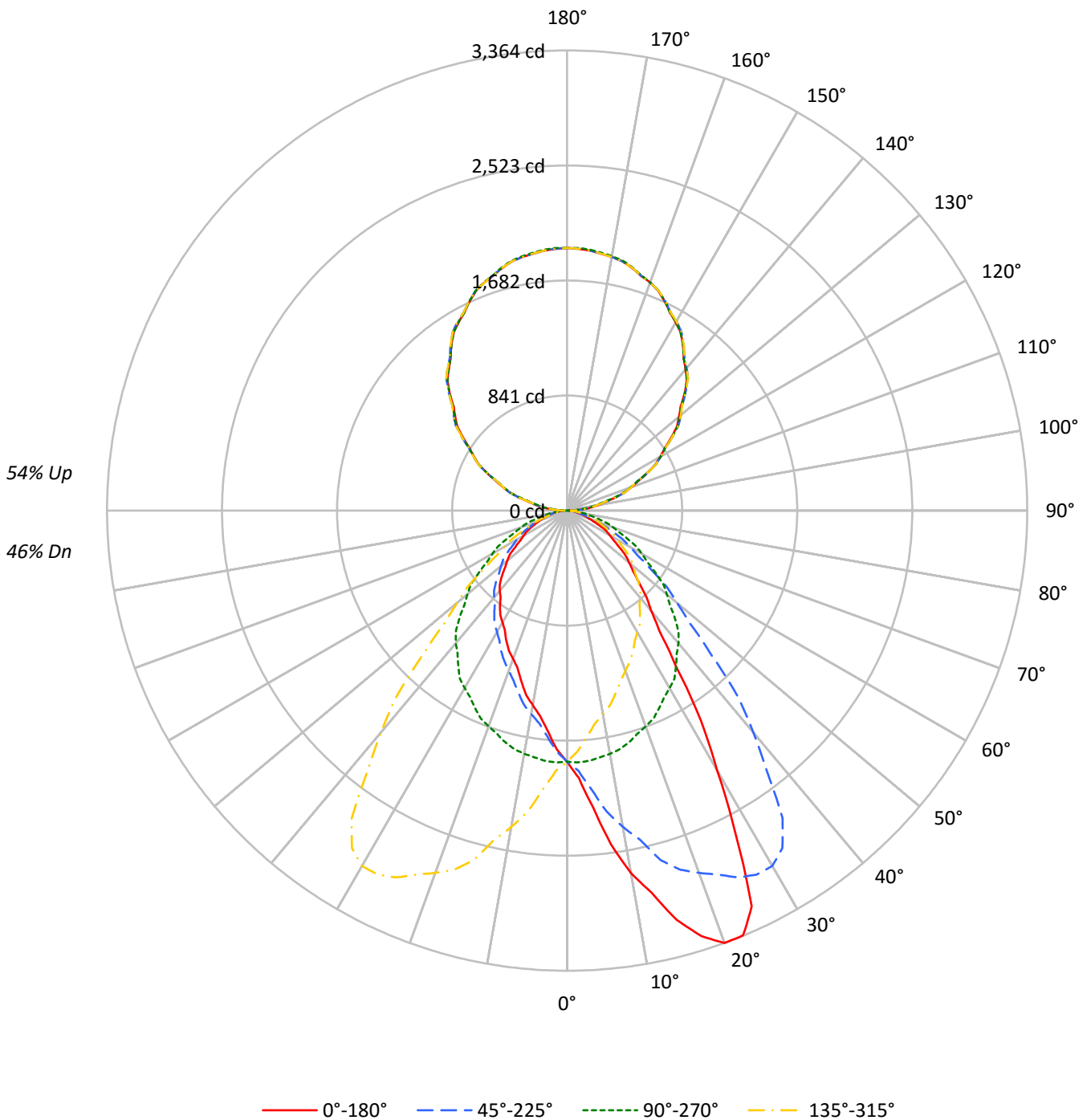
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	97	93	90	86	89	86	83	80	72	70	68	59	58	56	47	46	46	40
2	89	82	76	71	82	76	71	67	64	60	57	53	50	48	42	41	39	34
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	38	36	34	30
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26
5	69	58	50	44	63	54	47	42	46	40	36	38	34	31	31	28	26	23
6	64	52	44	39	58	48	41	36	41	36	32	35	31	28	28	26	23	20
7	59	47	39	34	54	44	37	32	37	32	28	32	28	25	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	37	30	26	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19763	19763	19763	19763
5°	23558	19847	17477	19847
10°	29415	19733	15789	19733
15°	34526	19531	14399	19531
20°	38533	19230	13216	19230
25°	37917	18912	12490	18912
30°	27256	18620	11742	18620
35°	18198	18239	11257	18239
40°	13408	17781	10756	17781
45°	11246	16978	10266	16978
50°	9923	15925	9582	15925
55°	8702	14720	8644	14720
60°	7750	13569	7918	13569
65°	6805	12332	7366	12332
70°	5344	11229	6729	11229
75°	4708	9807	6147	9807
80°	4091	8331	6044	8331
85°	3298	6694	6410	6694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	1.8
10°-20°	564.1	5.7
20°-30°	886.2	9.0
30°-40°	924.6	9.3
40°-50°	791.2	8.0
50°-60°	603.1	6.1
60°-70°	386.5	3.9
70°-80°	186.0	1.9
80°-90°	54.9	0.6
90°-100°	125.1	1.3
100°-110°	374.3	3.8
110°-120°	636.6	6.4
120°-130°	837.4	8.5
130°-140°	941.2	9.5
140°-150°	925.2	9.3
150°-160°	778.9	7.9
160°-170°	518.5	5.2
170°-180°	181.6	1.8
0°-30°	1630.8	16.5
0°-40°	2555.4	25.8
0°-60°	3949.7	39.9
0°-90°	4577.1	46.3
90°-120°	1136.0	11.5
90°-150°	3839.7	38.8
90°-180°	5319.0	53.8
0°-180°	9895.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1836	1836	1836	1836	1836	
5°	2180	1837	1618	1837	2180	225
15°	3098	1753	1292	1753	3098	879
25°	3193	1592	1052	1592	3193	1372
35°	1385	1388	857	1388	1385	908
45°	739	1115	674	1115	739	581
55°	464	784	461	784	464	419
65°	267	484	289	484	267	263
75°	113	236	148	236	113	121
85°	27	54	52	54	27	32
90°	45	2	45	2	45	23
95°	118	89	118	89	118	121
105°	359	339	359	339	359	381
115°	642	641	642	641	642	636
125°	927	938	927	938	927	829
135°	1215	1217	1215	1217	1215	934
145°	1476	1476	1476	1476	1476	921
155°	1687	1690	1687	1690	1687	777
165°	1835	1841	1835	1841	1835	518
175°	1908	1915	1908	1915	1908	181
180°	1920	1920	1920	1920	1920	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1955.5	1958.0	1949.8	1948.6	1939.1	1936.6	1936.6	1923.4	1915.2	1904.6	1898.3
5°	2180.3	2192.9	2186.6	2172.4	2148.8	2143.3	2128.4	2104.8	2078.1	2045.1	2029.4
7.5°	2461.0	2478.2	2471.6	2449.7	2425.0	2405.1	2362.9	2323.8	2268.9	2220.8	2179.6
10°	2691.2	2673.1	2658.9	2637.7	2614.9	2578.0	2534.0	2473.4	2403.5	2348.5	2287.2
12.5°	2863.4	2860.5	2842.5	2820.7	2788.5	2753.4	2699.3	2625.6	2544.3	2464.8	2394.7
15°	3098.3	3103.0	3091.2	3068.4	3022.8	2960.7	2879.0	2848.4	2732.0	2645.6	2559.1
17.5°	3260.8	3259.9	3258.3	3226.7	3180.2	3136.0	3060.2	2979.6	2874.3	2752.5	2636.0
20°	3363.9	3356.1	3357.7	3322.3	3287.7	3236.6	3162.7	3045.6	2959.2	2818.5	2698.2
22.5°	3361.4	3359.9	3365.8	3353.7	3328.6	3289.4	3231.3	3132.4	3022.1	2880.1	2744.8
25°	3192.6	3186.3	3223.3	3233.5	3273.6	3280.6	3263.3	3209.1	3104.6	2958.4	2791.0
27.5°	2672.0	2668.5	2737.1	2822.9	2931.7	3016.2	3098.0	3137.4	3104.6	2999.9	2832.2
30°	2192.9	2266.7	2301.3	2425.5	2563.8	2728.9	2873.5	3011.0	3044.8	2999.3	2861.7
32.5°	1820.6	1885.1	1914.0	2020.6	2149.5	2342.8	2559.7	2754.5	2892.1	2926.9	2844.1
35°	1384.9	1385.7	1451.7	1498.8	1618.3	1817.2	2027.8	2288.7	2548.1	2744.6	2765.0
37.5°	1105.1	1109.0	1148.9	1195.9	1285.5	1390.7	1576.2	1793.1	2092.7	2394.4	2571.2
40°	954.2	961.2	991.1	1037.5	1101.9	1181.3	1325.9	1530.3	1780.2	2115.8	2390.1
42.5°	857.3	868.8	884.2	919.9	959.8	1034.2	1151.1	1309.0	1536.3	1853.6	2170.1
45°	738.8	745.1	756.9	773.4	809.5	861.4	940.0	1046.1	1234.8	1490.2	1806.9
47.5°	651.7	648.4	660.8	674.2	698.3	733.6	786.3	872.9	1007.5	1212.4	1481.1
50°	592.6	591.8	600.5	610.7	633.5	659.4	702.7	767.9	874.8	1044.6	1290.6
52.5°	537.3	540.3	546.4	559.1	575.6	596.6	635.4	682.4	774.2	920.7	1125.8
55°	463.7	466.1	474.7	481.8	493.6	514.8	539.2	578.5	641.4	743.5	912.5
57.5°	401.5	400.4	408.7	410.4	423.8	441.1	459.9	490.4	536.0	612.0	725.8
60°	360.0	357.6	364.7	370.2	377.3	391.4	407.1	437.0	473.2	529.0	626.4
62.5°	322.2	321.1	326.3	331.8	337.7	350.5	363.7	386.7	415.3	462.3	539.6
65°	267.2	269.6	271.9	274.3	277.4	285.3	297.9	313.6	333.3	366.3	422.1
67.5°	210.0	212.4	213.2	218.0	224.8	229.7	237.4	251.4	265.0	292.9	324.6
70°	169.8	169.0	169.8	172.1	180.8	189.4	199.6	209.9	218.5	238.1	264.9
72.5°	145.9	144.5	146.5	147.0	151.2	153.6	160.0	169.6	180.8	194.1	213.3
75°	113.2	113.2	113.2	113.2	116.3	117.9	120.3	122.6	126.5	132.8	147.0
77.5°	83.6	83.8	84.9	85.7	86.3	87.2	88.7	91.0	92.4	95.7	101.9
80°	66.0	66.8	66.0	66.8	66.8	68.4	69.2	71.5	72.3	76.2	78.6
82.5°	49.7	49.2	49.7	50.5	50.5	52.0	52.2	53.9	54.1	56.1	58.5
85°	26.7	25.2	26.7	25.9	27.5	25.9	26.7	28.3	28.3	29.1	32.2
87.5°	15.3	16.5	15.1	15.6	15.4	15.9	15.6	15.3	16.3	15.4	15.2
90°	45.2	44.6	43.9	43.2	42.6	41.6	40.2	38.9	37.5	36.2	31.8
92.5°	60.9	61.3	61.7	62.1	62.5	62.2	61.1	60.0	59.0	57.9	55.4
95°	117.6	117.6	117.6	117.6	117.6	116.9	115.6	114.3	112.9	111.6	108.9
97.5°	181.0	181.1	181.2	181.4	181.5	180.8	179.2	177.7	176.2	174.6	172.7
100°	229.2	228.5	227.9	227.2	226.5	225.7	224.7	223.7	222.7	221.7	220.0
102.5°	278.7	278.8	278.9	279.1	279.2	278.8	277.8	276.8	275.8	274.7	272.5
105°	358.9	358.2	357.6	356.9	356.2	355.9	355.9	355.9	355.9	355.9	352.9
107.5°	442.4	442.8	443.2	443.6	444.0	443.7	442.6	441.6	440.5	439.4	438.2
110°	499.1	499.8	500.5	501.1	501.8	501.5	500.1	498.8	497.5	496.1	495.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	559.4	559.6	559.7	559.9	560.0	559.2	557.6	556.0	554.4	552.8	552.7
115°	642.4	642.7	643.1	643.4	643.7	643.7	643.4	643.1	642.7	642.4	643.1
117.5°	726.5	727.5	728.4	729.3	730.3	730.8	730.9	730.9	731.0	731.1	731.9
120°	785.6	786.3	787.0	787.7	788.3	788.8	789.2	789.5	789.8	790.2	791.8
122.5°	842.3	843.3	844.2	845.2	846.1	847.0	847.9	848.7	849.6	850.5	851.4
125°	927.4	928.7	930.1	931.4	932.7	934.1	935.4	936.8	938.1	939.5	940.1
127.5°	1012.1	1013.7	1015.2	1016.8	1018.3	1020.0	1021.9	1023.8	1025.6	1027.5	1028.3
130°	1067.6	1070.0	1072.3	1074.7	1077.0	1078.9	1080.2	1081.5	1082.9	1084.2	1085.2
132.5°	1125.5	1127.3	1129.2	1131.0	1132.8	1134.5	1136.1	1137.7	1139.3	1140.9	1141.6
135°	1215.4	1216.1	1216.7	1217.4	1218.1	1219.1	1220.4	1221.8	1223.1	1224.5	1224.8
137.5°	1294.7	1296.0	1297.3	1298.5	1299.8	1301.2	1302.6	1304.0	1305.4	1306.8	1305.9
140°	1346.6	1348.9	1351.3	1353.6	1356.0	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3
142.5°	1399.7	1401.5	1403.3	1405.1	1406.9	1408.0	1408.3	1408.7	1409.0	1409.3	1408.7
145°	1476.3	1477.6	1479.0	1480.3	1481.6	1482.5	1482.8	1483.1	1483.5	1483.8	1482.8
147.5°	1544.4	1546.4	1548.5	1550.5	1552.5	1553.5	1553.5	1553.5	1553.5	1553.5	1552.5
150°	1587.9	1589.9	1591.9	1593.9	1595.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.2
152.5°	1630.1	1631.8	1633.6	1635.3	1637.1	1637.7	1637.1	1636.6	1636.1	1635.5	1635.1
155°	1687.4	1689.7	1692.1	1694.4	1696.8	1697.3	1695.9	1694.6	1693.3	1691.9	1691.6
157.5°	1739.6	1741.4	1743.3	1745.2	1747.1	1747.3	1745.9	1744.5	1743.1	1741.7	1741.4
160°	1773.3	1774.7	1776.0	1777.4	1778.7	1778.5	1776.9	1775.2	1773.5	1771.8	1771.8
162.5°	1798.7	1800.8	1803.0	1805.1	1807.3	1807.5	1805.8	1804.1	1802.5	1800.8	1800.5
165°	1835.2	1837.5	1839.9	1842.2	1844.6	1844.7	1842.7	1840.7	1838.7	1836.7	1836.7
167.5°	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5	1872.5	1870.4	1868.3	1866.2	1866.0
170°	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3	1889.0	1886.6	1884.3	1881.9	1881.9
172.5°	1894.0	1896.3	1898.7	1901.0	1903.4	1903.5	1901.4	1899.3	1897.3	1895.2	1895.2
175°	1907.6	1909.9	1912.2	1914.6	1916.9	1917.1	1915.1	1913.1	1911.1	1909.1	1909.1
177.5°	1914.8	1916.7	1918.5	1920.4	1922.3	1922.4	1920.8	1919.2	1917.6	1916.0	1916.0
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1895.8	1893.9	1885.1	1875.0	1861.8	1853.0	1846.1	1842.3	1831.0	1817.2	1807.7
5°	2012.9	1989.3	1964.1	1933.5	1905.2	1876.1	1858.0	1836.8	1810.9	1781.8	1761.4
7.5°	2138.3	2092.1	2042.3	1990.9	1940.1	1894.5	1854.3	1819.8	1778.5	1736.8	1707.6
10°	2234.5	2166.9	2097.0	2025.4	1960.2	1898.9	1851.7	1805.4	1755.9	1707.9	1671.8
12.5°	2321.9	2232.9	2152.3	2064.4	1981.0	1907.7	1839.8	1785.2	1725.7	1674.6	1633.4
15°	2432.6	2341.4	2243.9	2110.3	1999.5	1906.8	1824.2	1752.7	1680.4	1617.5	1577.4
17.5°	2536.0	2398.8	2267.8	2156.4	2012.4	1896.5	1795.8	1710.3	1630.9	1564.2	1514.9
20°	2578.8	2445.9	2303.7	2161.4	2019.9	1890.3	1773.1	1678.8	1596.3	1520.8	1475.3
22.5°	2604.5	2454.1	2304.3	2151.4	2001.1	1866.4	1750.5	1646.8	1557.3	1485.6	1429.4
25°	2634.6	2455.4	2290.3	2139.4	1986.1	1840.0	1702.4	1592.4	1495.7	1419.5	1359.7
27.5°	2654.4	2443.6	2248.5	2080.8	1925.3	1779.7	1653.7	1537.0	1439.0	1358.3	1294.2
30°	2658.1	2434.1	2216.4	2034.9	1876.9	1743.3	1609.7	1498.1	1394.3	1308.6	1248.9
32.5°	2663.2	2410.9	2173.0	1980.2	1818.4	1686.1	1565.0	1458.4	1352.2	1267.8	1206.8
35°	2642.4	2398.0	2107.2	1885.5	1723.6	1595.5	1486.3	1388.0	1283.5	1201.7	1139.7
37.5°	2553.1	2346.9	2039.0	1779.0	1609.7	1491.0	1402.0	1316.3	1220.5	1132.3	1073.8
40°	2463.2	2296.6	1986.1	1714.2	1537.4	1415.5	1335.4	1265.4	1172.7	1090.1	1027.3
42.5°	2329.3	2228.1	1935.8	1646.3	1455.6	1338.2	1270.6	1205.0	1123.6	1039.8	980.7
45°	2083.6	2097.0	1832.9	1538.1	1342.4	1224.5	1160.9	1115.3	1043.0	973.8	913.3
47.5°	1775.5	1900.5	1712.0	1422.9	1223.1	1112.5	1056.8	1017.0	968.3	900.4	845.2
50°	1574.3	1752.7	1615.2	1345.6	1148.3	1038.3	983.2	951.0	908.6	855.1	802.5
52.5°	1388.8	1580.4	1498.2	1259.4	1067.2	966.6	912.8	886.3	852.6	802.3	754.7
55°	1132.6	1326.7	1307.9	1129.4	945.5	855.1	814.3	784.4	761.6	723.9	686.2
57.5°	916.1	1100.2	1109.9	984.8	838.3	749.0	713.8	691.3	676.4	648.0	613.1
60°	779.7	948.7	981.7	887.4	761.6	683.0	648.4	630.3	618.6	595.8	569.0
62.5°	666.5	810.3	847.7	779.8	688.0	614.5	587.4	570.0	562.0	542.3	518.7
65°	510.1	629.6	665.7	628.0	580.0	521.1	499.1	484.2	477.1	466.1	448.8
67.5°	383.6	470.6	510.3	483.7	466.4	429.1	415.1	407.1	400.8	393.3	378.8
70°	308.1	372.5	413.4	406.3	392.2	372.5	362.3	356.8	350.5	344.3	331.7
72.5°	247.7	292.1	330.4	334.0	322.4	318.5	309.5	307.2	303.4	295.8	288.9
75°	164.3	194.9	221.6	231.9	236.6	240.5	236.6	235.8	235.0	228.7	224.8
77.5°	107.7	124.2	141.0	158.5	165.8	171.2	172.4	175.3	173.2	169.9	168.0
80°	82.5	86.5	98.2	113.2	125.0	129.7	132.8	134.4	133.6	132.8	129.7
82.5°	59.9	63.2	68.7	79.2	89.1	97.0	98.9	98.6	100.3	100.8	98.2
85°	32.2	33.0	34.6	36.2	41.7	50.3	52.7	54.2	55.8	55.8	51.1
87.5°	15.6	14.1	14.4	13.7	14.9	14.8	17.9	20.4	21.7	19.9	20.5
90°	27.5	23.1	18.8	14.9	11.6	8.2	4.9	1.5	4.9	8.2	11.6
92.5°	52.9	50.5	48.0	45.6	43.3	41.0	38.8	36.5	38.8	41.0	43.3
95°	106.2	103.5	100.9	98.4	96.0	93.7	91.3	89.0	91.3	93.7	96.0
97.5°	170.7	168.8	166.8	165.0	163.3	161.5	159.8	158.0	159.8	161.5	163.3
100°	218.3	216.6	215.0	213.1	211.1	209.1	207.1	205.1	207.1	209.1	211.1
102.5°	270.3	268.1	265.9	264.2	263.0	261.8	260.6	259.4	260.6	261.8	263.0
105°	349.8	346.8	343.8	342.0	341.3	340.6	340.0	339.3	340.0	340.6	341.3
107.5°	437.0	435.8	434.6	433.8	433.4	433.0	432.6	432.2	432.6	433.0	433.4
110°	494.8	494.1	493.4	492.8	492.1	491.4	490.8	490.1	490.8	491.4	492.1



TEST NUMBER: P332487

CATALOG NUMBER: S123RDIW-S1165D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	552.5	552.4	552.3	552.0	551.6	551.2	550.8	550.4	550.8	551.2	551.6
115°	643.7	644.4	645.1	644.9	643.9	642.9	641.9	640.9	641.9	642.9	643.9
117.5°	732.8	733.7	734.5	734.6	734.0	733.3	732.6	732.0	732.6	733.3	734.0
120°	793.5	795.2	796.9	796.7	794.7	792.7	790.7	788.7	790.7	792.7	794.7
122.5°	852.2	853.1	854.0	853.7	852.2	850.7	849.2	847.8	849.2	850.7	852.2
125°	940.8	941.5	942.1	942.0	941.0	940.0	938.9	937.9	938.9	940.0	941.0
127.5°	1029.0	1029.7	1030.5	1029.8	1027.6	1025.5	1023.3	1021.2	1023.3	1025.5	1027.6
130°	1086.2	1087.2	1088.2	1087.4	1084.7	1082.0	1079.4	1076.7	1079.4	1082.0	1084.7
132.5°	1142.4	1143.1	1143.9	1142.9	1140.2	1137.5	1134.8	1132.2	1134.8	1137.5	1140.2
135°	1225.1	1225.5	1225.8	1225.0	1222.9	1220.9	1218.9	1216.9	1218.9	1220.9	1222.9
137.5°	1305.0	1304.2	1303.3	1302.0	1300.4	1298.7	1297.0	1295.3	1297.0	1298.7	1300.4
140°	1358.0	1357.7	1357.3	1356.3	1354.6	1353.0	1351.3	1349.6	1351.3	1353.0	1354.6
142.5°	1408.1	1407.5	1406.9	1405.8	1404.1	1402.4	1400.7	1399.1	1400.7	1402.4	1404.1
145°	1481.8	1480.8	1479.8	1479.0	1478.3	1477.6	1477.0	1476.3	1477.0	1477.6	1478.3
147.5°	1551.6	1550.7	1549.7	1548.7	1547.5	1546.2	1545.0	1543.8	1545.0	1546.2	1547.5
150°	1595.6	1594.9	1594.2	1593.6	1592.9	1592.2	1591.6	1590.9	1591.6	1592.2	1592.9
152.5°	1634.7	1634.3	1633.9	1633.2	1632.3	1631.4	1630.4	1629.5	1630.4	1631.4	1632.3
155°	1691.2	1690.9	1690.6	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4
157.5°	1741.1	1740.9	1740.6	1740.7	1741.1	1741.5	1741.9	1742.3	1741.9	1741.5	1741.1
160°	1771.8	1771.8	1771.8	1772.2	1772.8	1773.5	1774.2	1774.9	1774.2	1773.5	1772.8
162.5°	1800.3	1800.0	1799.7	1800.1	1801.0	1801.9	1802.9	1803.8	1802.9	1801.9	1801.0
165°	1836.7	1836.7	1836.7	1837.2	1838.2	1839.2	1840.2	1841.2	1840.2	1839.2	1838.2
167.5°	1865.7	1865.4	1865.2	1865.7	1867.0	1868.4	1869.7	1871.1	1869.7	1868.4	1867.0
170°	1881.9	1881.9	1881.9	1882.6	1883.9	1885.3	1886.6	1887.9	1886.6	1885.3	1883.9
172.5°	1895.2	1895.2	1895.2	1895.9	1897.2	1898.5	1899.9	1901.2	1899.9	1898.5	1897.2
175°	1909.1	1909.1	1909.1	1909.7	1911.1	1912.4	1913.8	1915.1	1913.8	1912.4	1911.1
177.5°	1916.0	1916.0	1916.0	1916.5	1917.6	1918.7	1919.8	1920.8	1919.8	1918.7	1917.6
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1804.6	1796.4	1790.8	1778.2	1770.0	1761.2	1752.4	1758.1	1757.4	1756.8	1756.8
5°	1744.1	1726.0	1709.5	1688.3	1674.9	1658.4	1645.8	1644.2	1647.4	1636.4	1630.1
7.5°	1684.0	1659.3	1635.9	1612.5	1587.7	1567.9	1555.4	1549.6	1541.6	1534.8	1527.8
10°	1641.9	1612.8	1590.0	1560.9	1534.2	1510.6	1495.7	1485.5	1480.0	1474.5	1464.3
12.5°	1598.5	1570.1	1541.0	1508.1	1482.7	1455.3	1444.1	1432.7	1422.1	1416.0	1402.0
15°	1535.0	1498.1	1467.4	1432.8	1404.5	1377.8	1362.1	1339.3	1336.1	1328.3	1314.1
17.5°	1471.3	1431.2	1389.0	1363.3	1331.4	1303.6	1279.7	1272.0	1249.5	1241.0	1228.8
20°	1421.0	1384.1	1351.9	1318.1	1271.7	1245.8	1226.9	1216.7	1198.6	1187.6	1179.7
22.5°	1377.6	1340.1	1302.8	1263.4	1225.2	1196.1	1182.3	1166.4	1156.5	1141.1	1132.6
25°	1315.7	1274.8	1230.0	1187.6	1160.1	1138.1	1116.1	1101.9	1087.8	1080.7	1065.0
27.5°	1243.7	1201.0	1159.1	1126.9	1093.1	1071.4	1051.5	1038.9	1021.9	1010.0	1001.3
30°	1204.1	1153.8	1117.6	1088.6	1045.3	1024.9	1010.0	994.3	981.7	969.1	960.5
32.5°	1158.2	1112.3	1078.0	1042.0	1008.9	986.5	967.2	953.4	942.7	930.7	922.1
35°	1086.2	1047.7	1012.3	976.2	951.8	929.0	906.2	894.4	884.2	873.2	865.4
37.5°	1021.1	985.1	951.5	917.2	887.0	868.5	850.1	841.1	827.3	819.9	811.9
40°	980.9	945.5	909.4	876.4	844.9	830.8	814.3	800.9	788.3	782.8	774.2
42.5°	936.9	901.5	871.0	835.5	809.7	790.5	775.3	760.7	751.2	743.2	738.3
45°	871.6	840.2	810.3	775.0	750.6	734.1	716.8	703.4	694.8	689.3	680.6
47.5°	808.3	776.9	746.5	715.7	692.1	673.3	656.0	646.7	635.2	628.5	622.6
50°	762.4	734.1	701.9	673.6	650.0	631.1	617.0	605.2	595.0	586.3	582.4
52.5°	720.3	690.1	662.3	635.8	611.0	589.6	576.7	564.3	556.6	546.7	542.2
55°	650.8	621.7	598.1	572.2	547.8	529.7	514.0	503.0	495.2	484.2	477.9
57.5°	585.5	559.5	531.3	508.8	483.7	468.4	455.4	440.5	430.9	422.2	416.1
60°	541.5	511.7	487.3	466.1	444.1	424.4	412.6	400.8	390.6	382.0	376.5
62.5°	495.6	469.5	446.4	423.3	403.2	386.1	372.4	362.5	353.5	348.0	342.5
65°	425.2	404.8	381.2	362.3	343.5	330.9	319.9	311.2	305.0	301.0	296.3
67.5°	360.4	340.6	320.0	301.5	288.9	279.3	272.1	264.7	261.6	256.5	253.4
70°	318.3	297.9	279.8	265.7	253.1	246.0	241.3	235.8	232.6	226.4	223.2
72.5°	272.4	257.6	244.6	233.0	222.9	216.5	210.5	203.7	198.7	191.8	188.6
75°	214.6	201.2	191.0	183.1	176.8	168.2	159.6	152.5	150.1	147.8	147.0
77.5°	158.9	150.4	143.0	136.4	128.6	122.3	120.4	118.8	118.4	117.1	117.1
80°	125.0	117.1	111.6	103.7	99.0	99.0	99.0	97.5	98.2	98.2	98.2
82.5°	92.9	85.7	82.7	79.9	78.9	79.5	79.5	79.9	79.4	80.6	80.0
85°	47.9	48.7	50.3	49.5	50.3	50.3	51.9	51.1	51.9	50.3	51.9
87.5°	20.6	23.2	24.7	26.2	27.7	28.0	28.9	29.2	30.0	30.3	30.5
90°	14.9	18.8	23.1	27.5	31.8	36.2	37.5	38.9	40.2	41.6	42.6
92.5°	45.6	48.0	50.5	52.9	55.4	57.9	59.0	60.0	61.1	62.2	62.5
95°	98.4	100.9	103.5	106.2	108.9	111.6	112.9	114.3	115.6	116.9	117.6
97.5°	165.0	166.8	168.8	170.7	172.7	174.6	176.2	177.7	179.2	180.8	181.5
100°	213.1	215.0	216.6	218.3	220.0	221.7	222.7	223.7	224.7	225.7	226.5
102.5°	264.2	265.9	268.1	270.3	272.5	274.7	275.8	276.8	277.8	278.8	279.2
105°	342.0	343.8	346.8	349.8	352.9	355.9	355.9	355.9	355.9	355.9	356.2
107.5°	433.8	434.6	435.8	437.0	438.2	439.4	440.5	441.6	442.6	443.7	444.0
110°	492.8	493.4	494.1	494.8	495.4	496.1	497.5	498.8	500.1	501.5	501.8



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CATALOG NUMBER: S123RDIW-S1165D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	552.0	552.3	552.4	552.5	552.7	552.8	554.4	556.0	557.6	559.2	560.0
115°	644.9	645.1	644.4	643.7	643.1	642.4	642.7	643.1	643.4	643.7	643.7
117.5°	734.6	734.5	733.7	732.8	731.9	731.1	731.0	730.9	730.9	730.8	730.3
120°	796.7	796.9	795.2	793.5	791.8	790.2	789.8	789.5	789.2	788.8	788.3
122.5°	853.7	854.0	853.1	852.2	851.4	850.5	849.6	848.7	847.9	847.0	846.1
125°	942.0	942.1	941.5	940.8	940.1	939.5	938.1	936.8	935.4	934.1	932.7
127.5°	1029.8	1030.5	1029.7	1029.0	1028.3	1027.5	1025.6	1023.8	1021.9	1020.0	1018.3
130°	1087.4	1088.2	1087.2	1086.2	1085.2	1084.2	1082.9	1081.5	1080.2	1078.9	1077.0
132.5°	1142.9	1143.9	1143.1	1142.4	1141.6	1140.9	1139.3	1137.7	1136.1	1134.5	1132.8
135°	1225.0	1225.8	1225.5	1225.1	1224.8	1224.5	1223.1	1221.8	1220.4	1219.1	1218.1
137.5°	1302.0	1303.3	1304.2	1305.0	1305.9	1306.8	1305.4	1304.0	1302.6	1301.2	1299.8
140°	1356.3	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3	1358.0	1357.7	1357.3	1356.0
142.5°	1405.8	1406.9	1407.5	1408.1	1408.7	1409.3	1409.0	1408.7	1408.3	1408.0	1406.9
145°	1479.0	1479.8	1480.8	1481.8	1482.8	1483.8	1483.5	1483.1	1482.8	1482.5	1481.6
147.5°	1548.7	1549.7	1550.7	1551.6	1552.5	1553.5	1553.5	1553.5	1553.5	1553.5	1552.5
150°	1593.6	1594.2	1594.9	1595.6	1596.2	1596.9	1596.9	1596.9	1596.9	1596.9	1595.9
152.5°	1633.2	1633.9	1634.3	1634.7	1635.1	1635.5	1636.1	1636.6	1637.1	1637.7	1637.1
155°	1690.4	1690.6	1690.9	1691.2	1691.6	1691.9	1693.3	1694.6	1695.9	1697.3	1696.8
157.5°	1740.7	1740.6	1740.9	1741.1	1741.4	1741.7	1743.1	1744.5	1745.9	1747.3	1747.1
160°	1772.2	1771.8	1771.8	1771.8	1771.8	1771.8	1773.5	1775.2	1776.9	1778.5	1778.7
162.5°	1800.1	1799.7	1800.0	1800.3	1800.5	1800.8	1802.5	1804.1	1805.8	1807.5	1807.3
165°	1837.2	1836.7	1836.7	1836.7	1836.7	1836.7	1838.7	1840.7	1842.7	1844.7	1844.6
167.5°	1865.7	1865.2	1865.4	1865.7	1866.0	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5
170°	1882.6	1881.9	1881.9	1881.9	1881.9	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3
172.5°	1895.9	1895.2	1895.2	1895.2	1895.2	1895.2	1897.3	1899.3	1901.4	1903.5	1903.4
175°	1909.7	1909.1	1909.1	1909.1	1909.1	1909.1	1911.1	1913.1	1915.1	1917.1	1916.9
177.5°	1916.5	1916.0	1916.0	1916.0	1916.0	1916.0	1917.6	1919.2	1920.8	1922.4	1922.3
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



TEST NUMBER: P332487

CATALOG NUMBER: S123RDIW-S1165D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1749.3	1748.6	1749.3	1746.7	1749.3	1748.6	1749.3	1756.8	1756.8	1757.4	1758.1
5°	1627.7	1627.0	1624.6	1617.5	1624.6	1627.0	1627.7	1630.1	1636.4	1647.4	1644.2
7.5°	1521.6	1520.5	1513.6	1513.8	1513.6	1520.5	1521.6	1527.8	1534.8	1541.6	1549.6
10°	1458.8	1459.5	1450.1	1444.6	1450.1	1459.5	1458.8	1464.3	1474.5	1480.0	1485.5
12.5°	1397.8	1394.2	1386.6	1380.5	1386.6	1394.2	1397.8	1402.0	1416.0	1422.1	1432.7
15°	1317.3	1309.4	1290.6	1292.1	1290.6	1309.4	1317.3	1314.1	1328.3	1336.1	1339.3
17.5°	1222.5	1216.7	1216.4	1205.4	1216.4	1216.7	1222.5	1228.8	1241.0	1249.5	1272.0
20°	1167.2	1163.2	1164.8	1153.8	1164.8	1163.2	1167.2	1179.7	1187.6	1198.6	1216.7
22.5°	1123.8	1119.8	1113.2	1109.8	1113.2	1119.8	1123.8	1132.6	1141.1	1156.5	1166.4
25°	1060.3	1054.0	1047.7	1051.6	1047.7	1054.0	1060.3	1065.0	1080.7	1087.8	1101.9
27.5°	996.8	992.1	985.8	985.0	985.8	992.1	996.8	1001.3	1010.0	1021.9	1038.9
30°	956.5	951.8	948.7	944.7	948.7	951.8	956.5	960.5	969.1	981.7	994.3
32.5°	915.7	914.7	909.1	908.3	909.1	914.7	915.7	922.1	930.7	942.7	953.4
35°	862.2	857.5	855.9	856.7	855.9	857.5	862.2	865.4	873.2	884.2	894.4
37.5°	811.4	805.1	802.3	799.5	802.3	805.1	811.4	811.9	819.9	827.3	841.1
40°	775.0	768.7	767.1	765.5	767.1	768.7	775.0	774.2	782.8	788.3	800.9
42.5°	734.1	731.6	730.6	727.8	730.6	731.6	734.1	738.3	743.2	751.2	760.7
45°	678.3	677.5	672.8	674.4	672.8	677.5	678.3	680.6	689.3	694.8	703.4
47.5°	619.5	616.0	612.7	614.9	612.7	616.0	619.5	622.6	628.5	635.2	646.7
50°	579.3	577.7	570.6	572.2	570.6	577.7	579.3	582.4	586.3	595.0	605.2
52.5°	539.0	533.0	530.4	529.4	530.4	533.0	539.0	542.2	546.7	556.6	564.3
55°	472.4	465.3	462.1	460.6	462.1	465.3	472.4	477.9	484.2	495.2	503.0
57.5°	407.0	405.1	402.6	404.3	402.6	405.1	407.0	416.1	422.2	430.9	440.5
60°	368.6	368.6	368.6	367.8	368.6	368.6	368.6	376.5	382.0	390.6	400.8
62.5°	339.1	337.2	336.6	337.7	336.6	337.2	339.1	342.5	348.0	353.5	362.5
65°	294.0	293.2	290.0	289.2	290.0	293.2	294.0	296.3	301.0	305.0	311.2
67.5°	251.4	248.5	247.6	246.5	247.6	248.5	251.4	253.4	256.5	261.6	264.7
70°	219.3	217.7	213.0	213.8	213.0	217.7	219.3	223.2	226.4	232.6	235.8
72.5°	184.7	183.1	182.2	181.1	182.2	183.1	184.7	188.6	191.8	198.7	203.7
75°	146.2	145.4	144.6	147.8	144.6	145.4	146.2	147.0	147.8	150.1	152.5
77.5°	117.1	117.1	117.6	116.3	117.6	117.1	117.1	117.1	117.1	118.4	118.8
80°	98.2	98.2	97.5	97.5	97.5	98.2	98.2	98.2	98.2	98.2	97.5
82.5°	78.8	79.4	79.9	78.6	79.9	79.4	78.8	80.0	80.6	79.4	79.9
85°	51.9	51.1	52.7	51.9	52.7	51.1	51.9	51.9	50.3	51.9	51.1
87.5°	31.9	30.8	30.9	31.7	30.9	30.8	31.9	30.5	30.3	30.0	29.2
90°	43.2	43.9	44.6	45.2	44.6	43.9	43.2	42.6	41.6	40.2	38.9
92.5°	62.1	61.7	61.3	60.9	61.3	61.7	62.1	62.5	62.2	61.1	60.0
95°	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	116.9	115.6	114.3
97.5°	181.4	181.2	181.1	181.0	181.1	181.2	181.4	181.5	180.8	179.2	177.7
100°	227.2	227.9	228.5	229.2	228.5	227.9	227.2	226.5	225.7	224.7	223.7
102.5°	279.1	278.9	278.8	278.7	278.8	278.9	279.1	279.2	278.8	277.8	276.8
105°	356.9	357.6	358.2	358.9	358.2	357.6	356.9	356.2	355.9	355.9	355.9
107.5°	443.6	443.2	442.8	442.4	442.8	443.2	443.6	444.0	443.7	442.6	441.6
110°	501.1	500.5	499.8	499.1	499.8	500.5	501.1	501.8	501.5	500.1	498.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	559.9	559.7	559.6	559.4	559.6	559.7	559.9	560.0	559.2	557.6	556.0
115°	643.4	643.1	642.7	642.4	642.7	643.1	643.4	643.7	643.7	643.4	643.1
117.5°	729.3	728.4	727.5	726.5	727.5	728.4	729.3	730.3	730.8	730.9	730.9
120°	787.7	787.0	786.3	785.6	786.3	787.0	787.7	788.3	788.8	789.2	789.5
122.5°	845.2	844.2	843.3	842.3	843.3	844.2	845.2	846.1	847.0	847.9	848.7
125°	931.4	930.1	928.7	927.4	928.7	930.1	931.4	932.7	934.1	935.4	936.8
127.5°	1016.8	1015.2	1013.7	1012.1	1013.7	1015.2	1016.8	1018.3	1020.0	1021.9	1023.8
130°	1074.7	1072.3	1070.0	1067.6	1070.0	1072.3	1074.7	1077.0	1078.9	1080.2	1081.5
132.5°	1131.0	1129.2	1127.3	1125.5	1127.3	1129.2	1131.0	1132.8	1134.5	1136.1	1137.7
135°	1217.4	1216.7	1216.1	1215.4	1216.1	1216.7	1217.4	1218.1	1219.1	1220.4	1221.8
137.5°	1298.5	1297.3	1296.0	1294.7	1296.0	1297.3	1298.5	1299.8	1301.2	1302.6	1304.0
140°	1353.6	1351.3	1348.9	1346.6	1348.9	1351.3	1353.6	1356.0	1357.3	1357.7	1358.0
142.5°	1405.1	1403.3	1401.5	1399.7	1401.5	1403.3	1405.1	1406.9	1408.0	1408.3	1408.7
145°	1480.3	1479.0	1477.6	1476.3	1477.6	1479.0	1480.3	1481.6	1482.5	1482.8	1483.1
147.5°	1550.5	1548.5	1546.4	1544.4	1546.4	1548.5	1550.5	1552.5	1553.5	1553.5	1553.5
150°	1593.9	1591.9	1589.9	1587.9	1589.9	1591.9	1593.9	1595.9	1596.9	1596.9	1596.9
152.5°	1635.3	1633.6	1631.8	1630.1	1631.8	1633.6	1635.3	1637.1	1637.7	1637.1	1636.6
155°	1694.4	1692.1	1689.7	1687.4	1689.7	1692.1	1694.4	1696.8	1697.3	1695.9	1694.6
157.5°	1745.2	1743.3	1741.4	1739.6	1741.4	1743.3	1745.2	1747.1	1747.3	1745.9	1744.5
160°	1777.4	1776.0	1774.7	1773.3	1774.7	1776.0	1777.4	1778.7	1778.5	1776.9	1775.2
162.5°	1805.1	1803.0	1800.8	1798.7	1800.8	1803.0	1805.1	1807.3	1807.5	1805.8	1804.1
165°	1842.2	1839.9	1837.5	1835.2	1837.5	1839.9	1842.2	1844.6	1844.7	1842.7	1840.7
167.5°	1872.5	1870.4	1868.3	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5	1872.5	1870.4
170°	1889.0	1886.6	1884.3	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3	1889.0	1886.6
172.5°	1901.0	1898.7	1896.3	1894.0	1896.3	1898.7	1901.0	1903.4	1903.5	1901.4	1899.3
175°	1914.6	1912.2	1909.9	1907.6	1909.9	1912.2	1914.6	1916.9	1917.1	1915.1	1913.1
177.5°	1920.4	1918.5	1916.7	1914.8	1916.7	1918.5	1920.4	1922.3	1922.4	1920.8	1919.2
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1752.4	1761.2	1770.0	1778.2	1790.8	1796.4	1804.6	1807.7	1817.2	1831.0	1842.3
5°	1645.8	1658.4	1674.9	1688.3	1709.5	1726.0	1744.1	1761.4	1781.8	1810.9	1836.8
7.5°	1555.4	1567.9	1587.7	1612.5	1635.9	1659.3	1684.0	1707.6	1736.8	1778.5	1819.8
10°	1495.7	1510.6	1534.2	1560.9	1590.0	1612.8	1641.9	1671.8	1707.9	1755.9	1805.4
12.5°	1444.1	1455.3	1482.7	1508.1	1541.0	1570.1	1598.5	1633.4	1674.6	1725.7	1785.2
15°	1362.1	1377.8	1404.5	1432.8	1467.4	1498.1	1535.0	1577.4	1617.5	1680.4	1752.7
17.5°	1279.7	1303.6	1331.4	1363.3	1389.0	1431.2	1471.3	1514.9	1564.2	1630.9	1710.3
20°	1226.9	1245.8	1271.7	1318.1	1351.9	1384.1	1421.0	1475.3	1520.8	1596.3	1678.8
22.5°	1182.3	1196.1	1225.2	1263.4	1302.8	1340.1	1377.6	1429.4	1485.6	1557.3	1646.8
25°	1116.1	1138.1	1160.1	1187.6	1230.0	1274.8	1315.7	1359.7	1419.5	1495.7	1592.4
27.5°	1051.5	1071.4	1093.1	1126.9	1159.1	1201.0	1243.7	1294.2	1358.3	1439.0	1537.0
30°	1010.0	1024.9	1045.3	1088.6	1117.6	1153.8	1204.1	1248.9	1308.6	1394.3	1498.1
32.5°	967.2	986.5	1008.9	1042.0	1078.0	1112.3	1158.2	1206.8	1267.8	1352.2	1458.4
35°	906.2	929.0	951.8	976.2	1012.3	1047.7	1086.2	1139.7	1201.7	1283.5	1388.0
37.5°	850.1	868.5	887.0	917.2	951.5	985.1	1021.1	1073.8	1132.3	1220.5	1316.3
40°	814.3	830.8	844.9	876.4	909.4	945.5	980.9	1027.3	1090.1	1172.7	1265.4
42.5°	775.3	790.5	809.7	835.5	871.0	901.5	936.9	980.7	1039.8	1123.6	1205.0
45°	716.8	734.1	750.6	775.0	810.3	840.2	871.6	913.3	973.8	1043.0	1115.3
47.5°	656.0	673.3	692.1	715.7	746.5	776.9	808.3	845.2	900.4	968.3	1017.0
50°	617.0	631.1	650.0	673.6	701.9	734.1	762.4	802.5	855.1	908.6	951.0
52.5°	576.7	589.6	611.0	635.8	662.3	690.1	720.3	754.7	802.3	852.6	886.3
55°	514.0	529.7	547.8	572.2	598.1	621.7	650.8	686.2	723.9	761.6	784.4
57.5°	455.4	468.4	483.7	508.8	531.3	559.5	585.5	613.1	648.0	676.4	691.3
60°	412.6	424.4	444.1	466.1	487.3	511.7	541.5	569.0	595.8	618.6	630.3
62.5°	372.4	386.1	403.2	423.3	446.4	469.5	495.6	518.7	542.3	562.0	570.0
65°	319.9	330.9	343.5	362.3	381.2	404.8	425.2	448.8	466.1	477.1	484.2
67.5°	272.1	279.3	288.9	301.5	320.0	340.6	360.4	378.8	393.3	400.8	407.1
70°	241.3	246.0	253.1	265.7	279.8	297.9	318.3	331.7	344.3	350.5	356.8
72.5°	210.5	216.5	222.9	233.0	244.6	257.6	272.4	288.9	295.8	303.4	307.2
75°	159.6	168.2	176.8	183.1	191.0	201.2	214.6	224.8	228.7	235.0	235.8
77.5°	120.4	122.3	128.6	136.4	143.0	150.4	158.9	168.0	169.9	173.2	175.3
80°	99.0	99.0	99.0	103.7	111.6	117.1	125.0	129.7	132.8	133.6	134.4
82.5°	79.5	79.5	78.9	79.9	82.7	85.7	92.9	98.2	100.8	100.3	98.6
85°	51.9	50.3	50.3	49.5	50.3	48.7	47.9	51.1	55.8	55.8	54.2
87.5°	28.9	28.0	27.7	26.2	24.7	23.2	20.6	20.5	19.9	21.7	20.4
90°	37.5	36.2	31.8	27.5	23.1	18.8	14.9	11.6	8.2	4.9	1.5
92.5°	59.0	57.9	55.4	52.9	50.5	48.0	45.6	43.3	41.0	38.8	36.5
95°	112.9	111.6	108.9	106.2	103.5	100.9	98.4	96.0	93.7	91.3	89.0
97.5°	176.2	174.6	172.7	170.7	168.8	166.8	165.0	163.3	161.5	159.8	158.0
100°	222.7	221.7	220.0	218.3	216.6	215.0	213.1	211.1	209.1	207.1	205.1
102.5°	275.8	274.7	272.5	270.3	268.1	265.9	264.2	263.0	261.8	260.6	259.4
105°	355.9	355.9	352.9	349.8	346.8	343.8	342.0	341.3	340.6	340.0	339.3
107.5°	440.5	439.4	438.2	437.0	435.8	434.6	433.8	433.4	433.0	432.6	432.2
110°	497.5	496.1	495.4	494.8	494.1	493.4	492.8	492.1	491.4	490.8	490.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	554.4	552.8	552.7	552.5	552.4	552.3	552.0	551.6	551.2	550.8	550.4
115°	642.7	642.4	643.1	643.7	644.4	645.1	644.9	643.9	642.9	641.9	640.9
117.5°	731.0	731.1	731.9	732.8	733.7	734.5	734.6	734.0	733.3	732.6	732.0
120°	789.8	790.2	791.8	793.5	795.2	796.9	796.7	794.7	792.7	790.7	788.7
122.5°	849.6	850.5	851.4	852.2	853.1	854.0	853.7	852.2	850.7	849.2	847.8
125°	938.1	939.5	940.1	940.8	941.5	942.1	942.0	941.0	940.0	938.9	937.9
127.5°	1025.6	1027.5	1028.3	1029.0	1029.7	1030.5	1029.8	1027.6	1025.5	1023.3	1021.2
130°	1082.9	1084.2	1085.2	1086.2	1087.2	1088.2	1087.4	1084.7	1082.0	1079.4	1076.7
132.5°	1139.3	1140.9	1141.6	1142.4	1143.1	1143.9	1142.9	1140.2	1137.5	1134.8	1132.2
135°	1223.1	1224.5	1224.8	1225.1	1225.5	1225.8	1225.0	1222.9	1220.9	1218.9	1216.9
137.5°	1305.4	1306.8	1305.9	1305.0	1304.2	1303.3	1302.0	1300.4	1298.7	1297.0	1295.3
140°	1358.3	1358.7	1358.3	1358.0	1357.7	1357.3	1356.3	1354.6	1353.0	1351.3	1349.6
142.5°	1409.0	1409.3	1408.7	1408.1	1407.5	1406.9	1405.8	1404.1	1402.4	1400.7	1399.1
145°	1483.5	1483.8	1482.8	1481.8	1480.8	1479.8	1479.0	1478.3	1477.6	1477.0	1476.3
147.5°	1553.5	1553.5	1552.5	1551.6	1550.7	1549.7	1548.7	1547.5	1546.2	1545.0	1543.8
150°	1596.9	1596.9	1596.2	1595.6	1594.9	1594.2	1593.6	1592.9	1592.2	1591.6	1590.9
152.5°	1636.1	1635.5	1635.1	1634.7	1634.3	1633.9	1633.2	1632.3	1631.4	1630.4	1629.5
155°	1693.3	1691.9	1691.6	1691.2	1690.9	1690.6	1690.4	1690.4	1690.4	1690.4	1690.4
157.5°	1743.1	1741.7	1741.4	1741.1	1740.9	1740.6	1740.7	1741.1	1741.5	1741.9	1742.3
160°	1773.5	1771.8	1771.8	1771.8	1771.8	1771.8	1772.2	1772.8	1773.5	1774.2	1774.9
162.5°	1802.5	1800.8	1800.5	1800.3	1800.0	1799.7	1800.1	1801.0	1801.9	1802.9	1803.8
165°	1838.7	1836.7	1836.7	1836.7	1836.7	1836.7	1837.2	1838.2	1839.2	1840.2	1841.2
167.5°	1868.3	1866.2	1866.0	1865.7	1865.4	1865.2	1865.7	1867.0	1868.4	1869.7	1871.1
170°	1884.3	1881.9	1881.9	1881.9	1881.9	1881.9	1882.6	1883.9	1885.3	1886.6	1887.9
172.5°	1897.3	1895.2	1895.2	1895.2	1895.2	1895.2	1895.9	1897.2	1898.5	1899.9	1901.2
175°	1911.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.7	1911.1	1912.4	1913.8	1915.1
177.5°	1917.6	1916.0	1916.0	1916.0	1916.0	1916.0	1916.5	1917.6	1918.7	1919.8	1920.8
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



TEST NUMBER: P332487

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1846.1	1853.0	1861.8	1875.0	1885.1	1893.9	1895.8	1898.3	1904.6	1915.2	1923.4
5°	1858.0	1876.1	1905.2	1933.5	1964.1	1989.3	2012.9	2029.4	2045.1	2078.1	2104.8
7.5°	1854.3	1894.5	1940.1	1990.9	2042.3	2092.1	2138.3	2179.6	2220.8	2268.9	2323.8
10°	1851.7	1898.9	1960.2	2025.4	2097.0	2166.9	2234.5	2287.2	2348.5	2403.5	2473.4
12.5°	1839.8	1907.7	1981.0	2064.4	2152.3	2232.9	2321.9	2394.7	2464.8	2544.3	2625.6
15°	1824.2	1906.8	1999.5	2110.3	2243.9	2341.4	2432.6	2559.1	2645.6	2732.0	2848.4
17.5°	1795.8	1896.5	2012.4	2156.4	2267.8	2398.8	2536.0	2636.0	2752.5	2874.3	2979.6
20°	1773.1	1890.3	2019.9	2161.4	2303.7	2445.9	2578.8	2698.2	2818.5	2959.2	3045.6
22.5°	1750.5	1866.4	2001.1	2151.4	2304.3	2454.1	2604.5	2744.8	2880.1	3022.1	3132.4
25°	1702.4	1840.0	1986.1	2139.4	2290.3	2455.4	2634.6	2791.0	2958.4	3104.6	3209.1
27.5°	1653.7	1779.7	1925.3	2080.8	2248.5	2443.6	2654.4	2832.2	2999.9	3104.6	3137.4
30°	1609.7	1743.3	1876.9	2034.9	2216.4	2434.1	2658.1	2861.7	2999.3	3044.8	3011.0
32.5°	1565.0	1686.1	1818.4	1980.2	2173.0	2410.9	2663.2	2844.1	2926.9	2892.1	2754.5
35°	1486.3	1595.5	1723.6	1885.5	2107.2	2398.0	2642.4	2765.0	2744.6	2548.1	2288.7
37.5°	1402.0	1491.0	1609.7	1779.0	2039.0	2346.9	2553.1	2571.2	2394.4	2092.7	1793.1
40°	1335.4	1415.5	1537.4	1714.2	1986.1	2296.6	2463.2	2390.1	2115.8	1780.2	1530.3
42.5°	1270.6	1338.2	1455.6	1646.3	1935.8	2228.1	2329.3	2170.1	1853.6	1536.3	1309.0
45°	1160.9	1224.5	1342.4	1538.1	1832.9	2097.0	2083.6	1806.9	1490.2	1234.8	1046.1
47.5°	1056.8	1112.5	1223.1	1422.9	1712.0	1900.5	1775.5	1481.1	1212.4	1007.5	872.9
50°	983.2	1038.3	1148.3	1345.6	1615.2	1752.7	1574.3	1290.6	1044.6	874.8	767.9
52.5°	912.8	966.6	1067.2	1259.4	1498.2	1580.4	1388.8	1125.8	920.7	774.2	682.4
55°	814.3	855.1	945.5	1129.4	1307.9	1326.7	1132.6	912.5	743.5	641.4	578.5
57.5°	713.8	749.0	838.3	984.8	1109.9	1100.2	916.1	725.8	612.0	536.0	490.4
60°	648.4	683.0	761.6	887.4	981.7	948.7	779.7	626.4	529.0	473.2	437.0
62.5°	587.4	614.5	688.0	779.8	847.7	810.3	666.5	539.6	462.3	415.3	386.7
65°	499.1	521.1	580.0	628.0	665.7	629.6	510.1	422.1	366.3	333.3	313.6
67.5°	415.1	429.1	466.4	483.7	510.3	470.6	383.6	324.6	292.9	265.0	251.4
70°	362.3	372.5	392.2	406.3	413.4	372.5	308.1	264.9	238.1	218.5	209.9
72.5°	309.5	318.5	322.4	334.0	330.4	292.1	247.7	213.3	194.1	180.8	169.6
75°	236.6	240.5	236.6	231.9	221.6	194.9	164.3	147.0	132.8	126.5	122.6
77.5°	172.4	171.2	165.8	158.5	141.0	124.2	107.7	101.9	95.7	92.4	91.0
80°	132.8	129.7	125.0	113.2	98.2	86.5	82.5	78.6	76.2	72.3	71.5
82.5°	98.9	97.0	89.1	79.2	68.7	63.2	59.9	58.5	56.1	54.1	53.9
85°	52.7	50.3	41.7	36.2	34.6	33.0	32.2	32.2	29.1	28.3	28.3
87.5°	17.9	14.8	14.9	13.7	14.4	14.1	15.6	15.2	15.4	16.3	15.3
90°	4.9	8.2	11.6	14.9	18.8	23.1	27.5	31.8	36.2	37.5	38.9
92.5°	38.8	41.0	43.3	45.6	48.0	50.5	52.9	55.4	57.9	59.0	60.0
95°	91.3	93.7	96.0	98.4	100.9	103.5	106.2	108.9	111.6	112.9	114.3
97.5°	159.8	161.5	163.3	165.0	166.8	168.8	170.7	172.7	174.6	176.2	177.7
100°	207.1	209.1	211.1	213.1	215.0	216.6	218.3	220.0	221.7	222.7	223.7
102.5°	260.6	261.8	263.0	264.2	265.9	268.1	270.3	272.5	274.7	275.8	276.8
105°	340.0	340.6	341.3	342.0	343.8	346.8	349.8	352.9	355.9	355.9	355.9
107.5°	432.6	433.0	433.4	433.8	434.6	435.8	437.0	438.2	439.4	440.5	441.6
110°	490.8	491.4	492.1	492.8	493.4	494.1	494.8	495.4	496.1	497.5	498.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	550.8	551.2	551.6	552.0	552.3	552.4	552.5	552.7	552.8	554.4	556.0
115°	641.9	642.9	643.9	644.9	645.1	644.4	643.7	643.1	642.4	642.7	643.1
117.5°	732.6	733.3	734.0	734.6	734.5	733.7	732.8	731.9	731.1	731.0	730.9
120°	790.7	792.7	794.7	796.7	796.9	795.2	793.5	791.8	790.2	789.8	789.5
122.5°	849.2	850.7	852.2	853.7	854.0	853.1	852.2	851.4	850.5	849.6	848.7
125°	938.9	940.0	941.0	942.0	942.1	941.5	940.8	940.1	939.5	938.1	936.8
127.5°	1023.3	1025.5	1027.6	1029.8	1030.5	1029.7	1029.0	1028.3	1027.5	1025.6	1023.8
130°	1079.4	1082.0	1084.7	1087.4	1088.2	1087.2	1086.2	1085.2	1084.2	1082.9	1081.5
132.5°	1134.8	1137.5	1140.2	1142.9	1143.9	1143.1	1142.4	1141.6	1140.9	1139.3	1137.7
135°	1218.9	1220.9	1222.9	1225.0	1225.8	1225.5	1225.1	1224.8	1224.5	1223.1	1221.8
137.5°	1297.0	1298.7	1300.4	1302.0	1303.3	1304.2	1305.0	1305.9	1306.8	1305.4	1304.0
140°	1351.3	1353.0	1354.6	1356.3	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3	1358.0
142.5°	1400.7	1402.4	1404.1	1405.8	1406.9	1407.5	1408.1	1408.7	1409.3	1409.0	1408.7
145°	1477.0	1477.6	1478.3	1479.0	1479.8	1480.8	1481.8	1482.8	1483.8	1483.5	1483.1
147.5°	1545.0	1546.2	1547.5	1548.7	1549.7	1550.7	1551.6	1552.5	1553.5	1553.5	1553.5
150°	1591.6	1592.2	1592.9	1593.6	1594.2	1594.9	1595.6	1596.2	1596.9	1596.9	1596.9
152.5°	1630.4	1631.4	1632.3	1633.2	1633.9	1634.3	1634.7	1635.1	1635.5	1636.1	1636.6
155°	1690.4	1690.4	1690.4	1690.4	1690.6	1690.9	1691.2	1691.6	1691.9	1693.3	1694.6
157.5°	1741.9	1741.5	1741.1	1740.7	1740.6	1740.9	1741.1	1741.4	1741.7	1743.1	1744.5
160°	1774.2	1773.5	1772.8	1772.2	1771.8	1771.8	1771.8	1771.8	1771.8	1773.5	1775.2
162.5°	1802.9	1801.9	1801.0	1800.1	1799.7	1800.0	1800.3	1800.5	1800.8	1802.5	1804.1
165°	1840.2	1839.2	1838.2	1837.2	1836.7	1836.7	1836.7	1836.7	1836.7	1838.7	1840.7
167.5°	1869.7	1868.4	1867.0	1865.7	1865.2	1865.4	1865.7	1866.0	1866.2	1868.3	1870.4
170°	1886.6	1885.3	1883.9	1882.6	1881.9	1881.9	1881.9	1881.9	1881.9	1884.3	1886.6
172.5°	1899.9	1898.5	1897.2	1895.9	1895.2	1895.2	1895.2	1895.2	1895.2	1897.3	1899.3
175°	1913.8	1912.4	1911.1	1909.7	1909.1	1909.1	1909.1	1909.1	1909.1	1911.1	1913.1
177.5°	1919.8	1918.7	1917.6	1916.5	1916.0	1916.0	1916.0	1916.0	1916.0	1917.6	1919.2
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0	1836.0
2.5°	1936.6	1936.6	1939.1	1948.6	1949.8	1958.0	1955.5
5°	2128.4	2143.3	2148.8	2172.4	2186.6	2192.9	2180.3
7.5°	2362.9	2405.1	2425.0	2449.7	2471.6	2478.2	2461.0
10°	2534.0	2578.0	2614.9	2637.7	2658.9	2673.1	2691.2
12.5°	2699.3	2753.4	2788.5	2820.7	2842.5	2860.5	2863.4
15°	2879.0	2960.7	3022.8	3068.4	3091.2	3103.0	3098.3
17.5°	3060.2	3136.0	3180.2	3226.7	3258.3	3259.9	3260.8
20°	3162.7	3236.6	3287.7	3322.3	3357.7	3356.1	3363.9
22.5°	3231.3	3289.4	3328.6	3353.7	3365.8	3359.9	3361.4
25°	3263.3	3280.6	3273.6	3233.5	3223.3	3186.3	3192.6
27.5°	3098.0	3016.2	2931.7	2822.9	2737.1	2668.5	2672.0
30°	2873.5	2728.9	2563.8	2425.5	2301.3	2266.7	2192.9
32.5°	2559.7	2342.8	2149.5	2020.6	1914.0	1885.1	1820.6
35°	2027.8	1817.2	1618.3	1498.8	1451.7	1385.7	1384.9
37.5°	1576.2	1390.7	1285.5	1195.9	1148.9	1109.0	1105.1
40°	1325.9	1181.3	1101.9	1037.5	991.1	961.2	954.2
42.5°	1151.1	1034.2	959.8	919.9	884.2	868.8	857.3
45°	940.0	861.4	809.5	773.4	756.9	745.1	738.8
47.5°	786.3	733.6	698.3	674.2	660.8	648.4	651.7
50°	702.7	659.4	633.5	610.7	600.5	591.8	592.6
52.5°	635.4	596.6	575.6	559.1	546.4	540.3	537.3
55°	539.2	514.8	493.6	481.8	474.7	466.1	463.7
57.5°	459.9	441.1	423.8	410.4	408.7	400.4	401.5
60°	407.1	391.4	377.3	370.2	364.7	357.6	360.0
62.5°	363.7	350.5	337.7	331.8	326.3	321.1	322.2
65°	297.9	285.3	277.4	274.3	271.9	269.6	267.2
67.5°	237.4	229.7	224.8	218.0	213.2	212.4	210.0
70°	199.6	189.4	180.8	172.1	169.8	169.0	169.8
72.5°	160.0	153.6	151.2	147.0	146.5	144.5	145.9
75°	120.3	117.9	116.3	113.2	113.2	113.2	113.2
77.5°	88.7	87.2	86.3	85.7	84.9	83.8	83.6
80°	69.2	68.4	66.8	66.8	66.0	66.8	66.0
82.5°	52.2	52.0	50.5	50.5	49.7	49.2	49.7
85°	26.7	25.9	27.5	25.9	26.7	25.2	26.7
87.5°	15.6	15.9	15.4	15.6	15.1	16.5	15.3
90°	40.2	41.6	42.6	43.2	43.9	44.6	45.2
92.5°	61.1	62.2	62.5	62.1	61.7	61.3	60.9
95°	115.6	116.9	117.6	117.6	117.6	117.6	117.6
97.5°	179.2	180.8	181.5	181.4	181.2	181.1	181.0
100°	224.7	225.7	226.5	227.2	227.9	228.5	229.2
102.5°	277.8	278.8	279.2	279.1	278.9	278.8	278.7
105°	355.9	355.9	356.2	356.9	357.6	358.2	358.9
107.5°	442.6	443.7	444.0	443.6	443.2	442.8	442.4
110°	500.1	501.5	501.8	501.1	500.5	499.8	499.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	557.6	559.2	560.0	559.9	559.7	559.6	559.4
115°	643.4	643.7	643.7	643.4	643.1	642.7	642.4
117.5°	730.9	730.8	730.3	729.3	728.4	727.5	726.5
120°	789.2	788.8	788.3	787.7	787.0	786.3	785.6
122.5°	847.9	847.0	846.1	845.2	844.2	843.3	842.3
125°	935.4	934.1	932.7	931.4	930.1	928.7	927.4
127.5°	1021.9	1020.0	1018.3	1016.8	1015.2	1013.7	1012.1
130°	1080.2	1078.9	1077.0	1074.7	1072.3	1070.0	1067.6
132.5°	1136.1	1134.5	1132.8	1131.0	1129.2	1127.3	1125.5
135°	1220.4	1219.1	1218.1	1217.4	1216.7	1216.1	1215.4
137.5°	1302.6	1301.2	1299.8	1298.5	1297.3	1296.0	1294.7
140°	1357.7	1357.3	1356.0	1353.6	1351.3	1348.9	1346.6
142.5°	1408.3	1408.0	1406.9	1405.1	1403.3	1401.5	1399.7
145°	1482.8	1482.5	1481.6	1480.3	1479.0	1477.6	1476.3
147.5°	1553.5	1553.5	1552.5	1550.5	1548.5	1546.4	1544.4
150°	1596.9	1596.9	1595.9	1593.9	1591.9	1589.9	1587.9
152.5°	1637.1	1637.7	1637.1	1635.3	1633.6	1631.8	1630.1
155°	1695.9	1697.3	1696.8	1694.4	1692.1	1689.7	1687.4
157.5°	1745.9	1747.3	1747.1	1745.2	1743.3	1741.4	1739.6
160°	1776.9	1778.5	1778.7	1777.4	1776.0	1774.7	1773.3
162.5°	1805.8	1807.5	1807.3	1805.1	1803.0	1800.8	1798.7
165°	1842.7	1844.7	1844.6	1842.2	1839.9	1837.5	1835.2
167.5°	1872.5	1874.5	1874.5	1872.5	1870.4	1868.3	1866.2
170°	1889.0	1891.3	1891.3	1889.0	1886.6	1884.3	1881.9
172.5°	1901.4	1903.5	1903.4	1901.0	1898.7	1896.3	1894.0
175°	1915.1	1917.1	1916.9	1914.6	1912.2	1909.9	1907.6
177.5°	1920.8	1922.4	1922.3	1920.4	1918.5	1916.7	1914.8
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6

(END OF REPORT)