

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: P332859-935

Luminaire Tested: **S124DIW-S1195D1560U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332859-935
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: S124DIW-S1195D1560U935-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9953.5 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

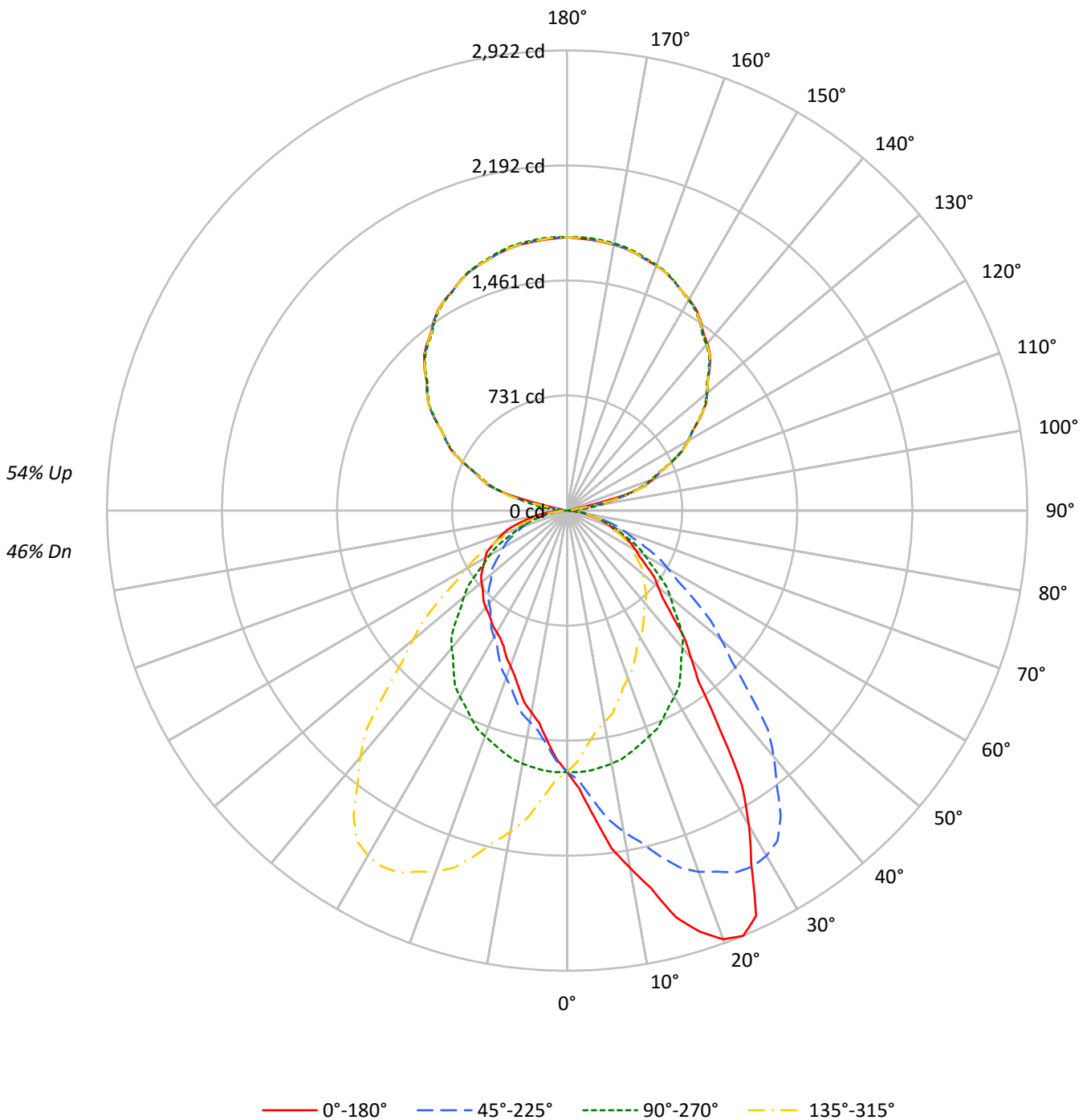
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	81	81	66	66	66	52	52	52	46				
1	97	93	89	86	89	85	82	79	71	69	67	59	57	55	47	46	45	39				
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	40	38	33				
3	81	72	64	59	74	66	60	55	56	51	47	46	42	40	37	35	33	28				
4	74	64	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21				
6	63	51	43	37	57	47	40	35	40	35	30	33	29	26	27	24	22	19				
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19	17				
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	26	21	19	21	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13397	13397	13397	13397
5°	15776	13431	11854	13431
10°	18889	13373	10673	13373
15°	22349	13237	9802	13237
20°	24887	13099	9024	13099
25°	25289	12896	8487	12896
30°	21519	12701	8318	12701
35°	16544	12384	8319	12384
40°	12896	12012	8476	12012
45°	10752	11451	8617	11451
50°	9463	10766	8911	10766
55°	8670	9947	9270	9947
60°	8125	9213	9700	9213
65°	7564	8392	10059	8392
70°	6911	7579	10286	7579
75°	6173	6669	10162	6669
80°	5174	5463	9842	5463
85°	3816	3946	9429	3946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	1.6
10°-20°	498.3	5.0
20°-30°	790.2	7.9
30°-40°	879.4	8.8
40°-50°	800.5	8.0
50°-60°	654.1	6.6
60°-70°	467.0	4.7
70°-80°	257.1	2.6
80°-90°	75.2	0.8
90°-100°	59.4	0.6
100°-110°	378.6	3.8
110°-120°	724.2	7.3
120°-130°	919.3	9.2
130°-140°	983.6	9.9
140°-150°	919.8	9.2
150°-160°	741.8	7.5
160°-170°	478.4	4.8
170°-180°	164.9	1.7
0°-30°	1450.2	14.6
0°-40°	2329.6	23.4
0°-60°	3784.2	38.0
0°-90°	4583.5	46.0
90°-120°	1162.1	11.7
90°-150°	3984.9	40.0
90°-180°	5370.0	54.0
0°-180°	9953.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1660	1660	1660	1660	1660	
5°	1947	1657	1463	1657	1947	198
15°	2674	1584	1173	1584	2674	756
25°	2839	1448	953	1448	2839	1252
35°	1679	1257	844	1257	1679	1066
45°	942	1003	755	1003	942	742
55°	616	707	659	707	616	556
65°	396	439	527	439	396	392
75°	198	214	326	214	198	210
85°	41	43	102	43	41	51
90°	39	4	39	4	39	18
95°	38	71	38	71	38	30
105°	370	391	370	391	370	323
115°	735	730	735	730	735	727
125°	1034	1026	1034	1026	1034	920
135°	1282	1272	1282	1272	1282	986
145°	1475	1467	1475	1467	1475	922
155°	1608	1609	1608	1609	1608	741
165°	1689	1697	1689	1697	1689	477
175°	1726	1736	1726	1736	1726	164
180°	1736	1736	1736	1736	1736	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1766.2	1765.6	1760.1	1759.0	1755.1	1750.2	1749.1	1740.3	1722.7	1714.4	1712.3
5°	1946.8	1960.6	1942.7	1939.2	1937.2	1914.5	1902.8	1889.0	1857.4	1838.9	1824.5
7.5°	2162.4	2164.0	2156.2	2149.9	2132.4	2112.6	2082.9	2051.3	2013.6	1974.4	1944.9
10°	2304.3	2309.8	2300.9	2299.5	2264.4	2242.4	2198.4	2161.3	2118.7	2071.2	2027.9
12.5°	2453.8	2446.2	2441.6	2412.2	2405.7	2365.6	2314.5	2276.2	2210.5	2155.9	2098.3
15°	2674.1	2659.0	2649.4	2608.8	2588.9	2533.1	2478.9	2437.0	2351.0	2269.3	2207.3
17.5°	2803.3	2818.5	2796.2	2779.6	2728.0	2689.0	2633.5	2545.5	2478.2	2376.6	2298.5
20°	2896.8	2898.2	2885.8	2868.7	2828.1	2778.6	2718.1	2621.8	2541.4	2440.4	2333.1
22.5°	2922.1	2922.4	2917.2	2901.1	2870.4	2830.3	2769.2	2689.0	2591.5	2481.7	2374.4
25°	2839.1	2836.3	2842.5	2860.4	2848.7	2836.3	2801.3	2741.5	2650.8	2534.5	2419.1
27.5°	2530.6	2549.5	2584.5	2628.5	2670.8	2703.1	2712.2	2699.9	2643.7	2548.2	2427.2
30°	2308.4	2331.8	2357.9	2401.8	2487.2	2535.9	2589.5	2630.1	2607.5	2531.2	2418.4
32.5°	2064.2	2070.0	2108.8	2158.8	2236.9	2330.8	2415.8	2498.1	2525.5	2485.4	2391.4
35°	1678.7	1688.3	1730.3	1779.8	1875.3	1990.1	2118.0	2232.1	2326.2	2364.0	2315.9
37.5°	1369.9	1397.6	1427.1	1480.3	1564.4	1667.8	1800.7	1948.4	2088.7	2182.7	2198.6
40°	1223.7	1240.8	1262.1	1302.7	1374.2	1475.9	1590.0	1759.1	1908.3	2043.1	2087.1
42.5°	1108.1	1118.2	1131.3	1167.9	1222.4	1323.6	1427.8	1576.6	1726.3	1887.4	1961.1
45°	941.8	952.1	974.0	995.4	1036.6	1106.7	1203.7	1326.0	1476.6	1631.9	1768.1
47.5°	821.7	828.2	841.3	864.1	899.1	945.4	1024.2	1126.4	1266.0	1416.8	1561.9
50°	753.5	758.9	769.2	789.9	816.7	857.9	922.6	1018.0	1127.4	1279.3	1421.6
52.5°	699.6	701.7	709.3	723.3	744.6	779.3	832.3	911.4	1013.0	1148.4	1290.2
55°	616.0	618.7	625.6	635.8	654.4	676.4	717.0	776.1	864.8	982.3	1105.4
57.5°	547.2	549.1	554.9	558.9	574.1	592.0	623.2	665.5	732.6	832.3	942.2
60°	503.2	501.8	508.7	512.1	522.5	537.6	561.6	602.2	660.6	741.1	842.1
62.5°	460.3	458.4	464.2	468.7	474.6	487.5	507.2	539.0	586.3	659.1	746.4
65°	396.0	393.2	396.7	402.2	407.7	414.5	429.0	457.1	495.0	547.2	613.9
67.5°	331.3	334.2	334.8	337.5	340.7	350.1	359.9	379.9	406.6	448.3	504.9
70°	292.8	293.5	296.3	296.3	298.3	306.6	314.9	326.5	352.7	391.2	437.2
72.5°	254.3	257.3	256.1	258.3	259.8	265.4	271.4	282.5	304.8	333.4	372.3
75°	197.9	200.0	200.0	200.7	202.8	204.8	209.7	217.9	233.8	255.0	281.8
77.5°	144.4	144.6	145.6	148.1	148.1	151.4	155.0	161.5	169.4	184.0	200.4
80°	111.3	112.7	112.0	113.4	113.4	116.1	117.5	125.8	129.2	138.9	151.9
82.5°	81.7	83.0	82.9	84.8	85.9	86.4	88.4	91.7	95.1	103.7	109.0
85°	41.2	42.6	41.2	42.6	44.7	45.4	47.4	48.1	50.9	53.0	57.8
87.5°	19.9	21.4	21.3	21.8	22.7	23.1	23.2	22.4	24.2	24.5	26.2
90°	38.9	38.4	37.8	37.2	36.7	35.5	33.8	32.0	30.3	28.6	26.3
92.5°	35.8	35.7	35.6	35.5	35.4	34.4	32.7	31.0	29.3	27.6	25.2
95°	37.6	37.4	37.1	36.8	36.5	35.5	33.8	32.0	30.3	28.6	28.2
97.5°	36.3	36.1	35.8	35.5	35.2	35.0	34.8	34.6	34.4	34.3	66.5
100°	36.3	36.1	35.8	35.5	35.2	37.5	42.4	47.4	52.3	57.2	96.9
102.5°	37.4	37.4	37.3	37.2	37.2	63.6	116.5	169.4	222.3	275.3	280.4
105°	370.1	380.5	390.8	401.2	411.6	415.5	412.9	410.3	407.7	405.1	403.6
107.5°	515.7	514.6	513.5	512.5	511.3	510.1	508.9	507.6	506.4	505.1	503.1
110°	579.1	578.2	577.4	576.5	575.7	574.9	574.4	573.8	573.2	572.6	570.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	642.5	641.4	640.2	639.2	638.1	637.6	637.7	637.8	637.9	638.1	637.2
115°	734.9	734.9	734.9	734.9	734.9	734.6	734.0	733.5	732.9	732.3	732.6
117.5°	828.9	829.1	829.1	829.2	829.4	829.5	829.6	829.7	829.8	829.9	829.3
120°	888.1	888.7	889.2	889.8	890.4	890.4	889.8	889.2	888.7	888.1	888.4
122.5°	946.3	946.8	947.4	948.0	948.6	948.7	948.4	948.0	947.7	947.4	946.9
125°	1033.5	1033.3	1032.9	1032.7	1032.4	1031.8	1031.0	1030.1	1029.2	1028.4	1028.9
127.5°	1110.2	1110.3	1110.6	1110.9	1111.0	1111.3	1111.5	1111.6	1111.8	1112.0	1110.6
130°	1162.1	1162.1	1162.1	1162.1	1162.1	1161.9	1161.7	1161.4	1161.1	1160.8	1159.9
132.5°	1209.9	1210.1	1210.3	1210.6	1210.8	1210.7	1210.5	1210.2	1209.9	1209.6	1208.5
135°	1281.5	1281.0	1280.4	1279.8	1279.3	1278.7	1278.1	1277.5	1276.9	1276.3	1275.2
137.5°	1342.8	1343.0	1343.2	1343.3	1343.5	1343.3	1342.6	1342.0	1341.4	1340.7	1339.5
140°	1385.4	1385.1	1384.8	1384.6	1384.2	1383.7	1382.9	1382.0	1381.1	1380.2	1379.7
142.5°	1420.7	1420.6	1420.6	1420.6	1420.5	1420.1	1419.5	1418.9	1418.2	1417.6	1417.3
145°	1475.0	1474.5	1473.9	1473.3	1472.7	1472.2	1472.0	1471.7	1471.4	1471.1	1471.1
147.5°	1519.9	1519.7	1519.3	1519.1	1518.8	1518.5	1518.3	1518.0	1517.9	1517.6	1517.9
150°	1549.0	1548.8	1548.4	1548.2	1547.9	1547.7	1547.7	1547.7	1547.7	1547.7	1548.0
152.5°	1573.9	1574.1	1574.3	1574.4	1574.6	1574.5	1574.0	1573.6	1573.1	1572.6	1573.1
155°	1607.5	1608.3	1609.2	1610.1	1610.9	1610.8	1609.6	1608.4	1607.3	1606.1	1607.1
157.5°	1635.5	1637.0	1638.5	1640.0	1641.5	1641.5	1640.0	1638.5	1637.0	1635.5	1636.5
160°	1654.2	1656.0	1657.7	1659.4	1661.1	1661.1	1659.4	1657.7	1656.0	1654.2	1654.5
162.5°	1668.7	1670.7	1672.7	1674.6	1676.5	1676.7	1675.0	1673.3	1671.5	1669.7	1670.1
165°	1689.3	1691.9	1694.4	1697.0	1699.6	1699.8	1697.5	1695.1	1692.8	1690.6	1690.6
167.5°	1704.6	1707.4	1710.4	1713.2	1716.1	1716.3	1713.7	1711.2	1708.7	1706.2	1706.3
170°	1713.9	1716.8	1719.7	1722.6	1725.4	1725.8	1723.5	1721.1	1718.8	1716.5	1716.2
172.5°	1719.1	1722.3	1725.4	1728.5	1731.6	1732.0	1729.7	1727.3	1725.0	1722.8	1722.4
175°	1725.6	1729.1	1732.5	1735.9	1739.5	1739.9	1737.3	1734.7	1732.1	1729.5	1729.2
177.5°	1729.7	1732.5	1735.3	1738.1	1740.9	1741.3	1739.5	1737.6	1735.8	1733.9	1733.5
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1712.8	1705.1	1699.6	1695.2	1683.1	1675.9	1670.4	1662.8	1654.0	1644.6	1633.1
5°	1810.0	1786.7	1769.4	1743.4	1718.6	1698.0	1676.6	1657.4	1634.0	1608.6	1590.0
7.5°	1912.2	1877.4	1832.8	1794.2	1750.8	1713.0	1679.1	1644.5	1608.4	1573.6	1541.5
10°	1977.0	1932.3	1882.8	1824.5	1769.4	1720.6	1675.2	1631.3	1588.6	1546.0	1509.6
12.5°	2046.9	1991.2	1918.0	1849.8	1788.1	1722.9	1668.1	1614.2	1562.8	1518.0	1475.5
15°	2140.7	2060.2	1975.7	1884.2	1803.1	1726.8	1651.9	1583.8	1526.1	1467.0	1425.7
17.5°	2198.3	2098.8	2002.1	1906.5	1808.4	1712.1	1631.3	1552.8	1480.5	1421.8	1369.8
20°	2236.2	2137.3	2016.9	1921.4	1804.5	1705.6	1612.1	1524.7	1449.1	1386.6	1332.9
22.5°	2269.3	2154.8	2034.5	1908.8	1792.4	1687.4	1585.1	1497.2	1420.0	1354.1	1302.7
25°	2287.1	2155.8	2025.2	1900.1	1768.1	1643.6	1550.8	1447.8	1365.2	1295.8	1240.8
27.5°	2289.1	2148.6	2000.9	1861.8	1725.6	1609.7	1492.5	1400.4	1314.7	1241.4	1188.6
30°	2282.9	2136.6	1977.7	1827.2	1690.4	1564.6	1462.8	1362.5	1275.2	1202.3	1147.3
32.5°	2263.7	2111.3	1948.0	1788.7	1646.9	1523.9	1418.8	1323.4	1238.4	1166.6	1108.8
35°	2208.0	2057.4	1883.5	1717.9	1572.9	1448.5	1353.6	1256.6	1171.4	1103.4	1047.7
37.5°	2121.0	1984.9	1808.1	1636.7	1494.2	1369.2	1275.2	1187.6	1110.8	1041.6	984.6
40°	2045.1	1925.5	1748.2	1581.1	1427.1	1308.2	1220.2	1139.8	1063.4	998.2	943.8
42.5°	1957.7	1853.5	1689.9	1512.9	1364.4	1244.9	1159.2	1086.9	1015.0	954.7	900.4
45°	1801.7	1733.0	1579.1	1415.4	1260.8	1148.0	1066.2	1003.0	942.5	883.4	838.0
47.5°	1622.5	1588.4	1458.7	1303.4	1156.5	1045.4	974.5	916.1	863.0	813.0	772.9
50°	1502.0	1485.6	1373.5	1223.7	1083.4	978.9	907.4	857.2	811.8	767.8	730.0
52.5°	1383.3	1382.7	1281.7	1144.4	1014.7	914.0	843.1	796.2	756.9	721.1	687.2
55°	1201.6	1220.9	1141.9	1019.4	903.3	812.5	748.6	706.7	679.2	649.6	624.2
57.5°	1034.8	1066.8	1001.6	893.8	796.9	713.3	657.6	626.1	596.8	578.9	560.4
60°	926.0	956.2	905.3	814.6	723.2	651.7	598.7	570.6	545.1	532.8	519.7
62.5°	829.1	856.1	818.5	734.3	655.0	586.3	541.6	514.4	497.3	483.8	475.2
65°	690.9	713.6	681.2	620.1	552.0	497.1	460.5	439.3	422.8	417.2	407.7
67.5°	558.4	579.1	561.6	509.6	455.0	413.5	385.0	364.5	354.7	349.9	343.0
70°	479.8	500.4	481.9	436.5	394.6	359.6	332.7	321.1	310.7	308.7	299.0
72.5°	413.3	427.3	408.7	373.2	337.4	307.8	287.1	274.8	269.5	265.8	260.5
75°	310.0	322.4	310.0	282.5	257.1	236.5	218.6	213.8	207.6	205.5	202.1
77.5°	219.5	230.1	220.7	203.5	184.5	168.6	158.9	152.7	151.4	147.8	149.5
80°	167.7	174.6	165.7	153.9	138.9	127.9	121.0	117.5	113.4	112.0	114.8
82.5°	120.5	123.5	118.9	111.1	99.8	92.6	88.0	84.0	83.2	83.4	83.4
85°	62.6	61.9	61.2	54.3	50.9	46.1	43.3	42.6	41.9	43.3	44.7
87.5°	25.7	25.7	24.8	22.0	19.7	17.5	16.3	15.1	16.3	17.5	18.6
90°	23.9	21.6	19.4	16.6	13.4	10.2	7.1	3.9	7.1	10.2	13.4
92.5°	22.9	20.6	18.3	17.0	16.9	16.7	16.5	16.4	16.5	16.7	16.9
95°	28.0	27.7	27.4	32.2	42.0	51.8	61.6	71.4	61.6	51.8	42.0
97.5°	98.7	130.9	163.1	176.2	170.0	163.8	157.7	151.6	157.7	163.8	170.0
100°	136.7	176.6	216.4	233.7	228.5	223.3	218.2	212.9	218.2	223.3	228.5
102.5°	285.7	290.8	296.0	296.7	292.9	289.1	285.3	281.5	285.3	289.1	292.9
105°	402.3	400.8	399.3	397.8	396.1	394.3	392.5	390.8	392.5	394.3	396.1
107.5°	501.2	499.2	497.2	495.8	495.0	494.1	493.3	492.3	493.3	494.1	495.0
110°	569.1	567.4	565.7	564.4	563.5	562.7	561.8	560.9	561.8	562.7	563.5



TEST NUMBER: P332859-935

CATALOG NUMBER: S124DIW-S1195D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	636.5	635.6	634.8	633.6	632.1	630.5	629.0	627.4	629.0	630.5	632.1
115°	732.9	733.1	733.5	733.1	732.3	731.4	730.6	729.7	730.6	731.4	732.3
117.5°	828.7	828.0	827.4	826.6	825.4	824.2	823.0	821.9	823.0	824.2	825.4
120°	888.7	889.0	889.2	888.8	887.7	886.6	885.4	884.2	885.4	886.6	887.7
122.5°	946.5	946.2	945.7	945.2	944.4	943.7	943.1	942.4	943.1	943.7	944.4
125°	1029.5	1030.1	1030.6	1030.4	1029.2	1028.0	1026.9	1025.8	1026.9	1028.0	1029.2
127.5°	1109.3	1108.0	1106.6	1105.9	1105.5	1105.3	1105.0	1104.7	1105.0	1105.3	1105.5
130°	1159.1	1158.2	1157.4	1156.8	1156.5	1156.2	1155.9	1155.6	1155.9	1156.2	1156.5
132.5°	1207.4	1206.3	1205.2	1204.5	1203.9	1203.4	1202.8	1202.3	1202.8	1203.4	1203.9
135°	1274.0	1272.9	1271.7	1271.3	1271.6	1271.9	1272.1	1272.5	1272.1	1271.9	1271.6
137.5°	1338.3	1337.0	1335.7	1335.0	1334.9	1334.7	1334.6	1334.6	1334.6	1334.7	1334.9
140°	1379.1	1378.5	1377.9	1377.3	1376.7	1376.2	1375.6	1375.0	1375.6	1376.2	1376.7
142.5°	1416.9	1416.6	1416.3	1415.6	1414.5	1413.5	1412.4	1411.4	1412.4	1413.5	1414.5
145°	1471.1	1471.1	1471.1	1470.7	1469.8	1469.0	1468.1	1467.2	1468.1	1469.0	1469.8
147.5°	1518.2	1518.5	1518.7	1518.1	1516.5	1514.8	1513.2	1511.7	1513.2	1514.8	1516.5
150°	1548.3	1548.6	1548.9	1548.4	1547.3	1546.1	1545.0	1543.9	1545.0	1546.1	1547.3
152.5°	1573.6	1574.2	1574.8	1574.5	1573.6	1572.7	1571.8	1570.8	1571.8	1572.7	1573.6
155°	1607.9	1608.8	1609.6	1609.9	1609.6	1609.3	1609.0	1608.8	1609.0	1609.3	1609.6
157.5°	1637.4	1638.4	1639.4	1640.0	1640.2	1640.4	1640.5	1640.7	1640.5	1640.4	1640.2
160°	1654.8	1655.0	1655.4	1656.0	1656.8	1657.7	1658.5	1659.4	1658.5	1657.7	1656.8
162.5°	1670.3	1670.6	1670.9	1671.6	1672.8	1673.8	1674.9	1676.0	1674.9	1673.8	1672.8
165°	1690.6	1690.6	1690.6	1691.3	1692.7	1694.2	1695.6	1697.0	1695.6	1694.2	1692.7
167.5°	1706.5	1706.7	1706.8	1707.6	1709.2	1710.6	1712.2	1713.6	1712.2	1710.6	1709.2
170°	1716.0	1715.6	1715.4	1716.1	1717.8	1719.5	1721.3	1723.0	1721.3	1719.5	1717.8
172.5°	1722.2	1721.9	1721.6	1722.3	1724.1	1725.8	1727.5	1729.2	1727.5	1725.8	1724.1
175°	1728.9	1728.6	1728.4	1729.1	1730.8	1732.5	1734.2	1735.9	1734.2	1732.5	1730.8
177.5°	1733.0	1732.5	1732.1	1732.7	1734.2	1735.9	1737.5	1739.1	1737.5	1735.9	1734.2
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CATALOG NUMBER: S124DIW-S1195D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1627.5	1622.6	1615.5	1605.6	1597.3	1588.5	1586.3	1583.0	1589.6	1584.2	1582.4
5°	1574.3	1559.8	1541.2	1519.9	1507.5	1489.7	1486.3	1479.4	1472.5	1471.8	1464.9
7.5°	1517.7	1496.5	1472.2	1450.4	1430.4	1410.9	1398.1	1395.3	1385.2	1379.2	1372.3
10°	1481.4	1455.3	1427.1	1406.5	1383.1	1362.5	1348.1	1339.8	1332.9	1325.3	1318.5
12.5°	1438.6	1410.7	1387.5	1365.2	1337.5	1321.8	1298.0	1283.8	1282.4	1282.5	1264.6
15°	1388.6	1361.2	1325.3	1293.7	1278.6	1248.4	1235.3	1218.8	1208.5	1198.2	1190.0
17.5°	1331.5	1297.4	1269.4	1233.1	1204.3	1180.2	1163.0	1153.1	1137.6	1123.0	1112.4
20°	1295.8	1259.4	1229.9	1191.3	1159.7	1130.1	1115.7	1102.0	1090.3	1077.9	1066.2
22.5°	1259.5	1221.4	1185.3	1147.9	1118.4	1087.3	1073.3	1054.6	1043.5	1036.6	1024.9
25°	1202.3	1161.1	1119.8	1084.1	1053.9	1026.3	1007.8	993.3	980.9	975.4	967.9
27.5°	1140.1	1099.2	1059.4	1018.7	984.4	964.5	949.6	938.7	931.6	924.3	920.9
30°	1100.6	1058.0	1015.4	977.5	945.9	926.0	912.2	904.7	899.1	895.7	892.3
32.5°	1060.4	1018.4	973.5	939.0	910.7	892.9	882.5	874.9	872.2	871.0	869.8
35°	996.1	953.5	912.2	881.3	854.5	847.6	838.7	834.6	833.2	838.0	840.1
37.5°	933.8	894.2	856.3	826.3	808.7	798.7	795.7	795.7	800.7	804.9	809.9
40°	893.6	855.1	819.4	793.3	776.8	770.6	769.2	772.7	778.2	783.0	788.5
42.5°	854.6	816.7	784.2	759.7	748.2	742.5	743.4	746.8	754.5	760.4	768.7
45°	794.0	762.3	730.7	710.8	701.2	702.6	702.6	708.8	716.3	725.2	734.2
47.5°	736.9	705.1	679.1	662.3	657.3	656.1	660.0	668.0	678.9	689.9	702.4
50°	698.4	668.2	645.5	630.3	624.9	627.0	632.4	640.0	653.1	666.8	679.8
52.5°	659.4	631.9	610.9	596.8	593.0	596.7	602.2	614.2	625.6	640.4	656.3
55°	598.7	575.4	558.9	548.5	547.2	549.2	555.4	568.5	585.0	603.6	618.7
57.5°	538.4	518.8	503.8	496.6	497.3	499.2	509.4	525.0	542.5	562.3	581.9
60°	497.7	479.8	467.4	461.9	462.6	466.7	479.1	493.6	515.6	534.9	555.4
62.5°	459.2	443.5	431.7	426.8	425.8	434.9	446.7	461.7	483.7	505.1	527.4
65°	397.4	385.0	375.3	372.6	374.6	381.5	396.7	416.6	435.1	457.8	481.2
67.5°	336.8	326.7	320.0	321.3	323.8	334.0	346.6	363.8	384.9	408.4	431.4
70°	298.3	288.7	283.2	283.9	288.0	300.4	311.4	328.6	351.3	375.3	394.6
72.5°	258.7	252.4	247.5	250.4	254.5	263.0	276.7	293.9	313.9	336.3	356.6
75°	198.6	198.6	195.9	197.9	204.1	212.4	222.7	240.6	260.5	278.4	294.9
77.5°	147.4	145.9	147.7	150.2	153.7	163.5	175.3	188.0	203.1	220.9	234.5
80°	112.7	113.4	116.8	121.0	122.3	129.9	142.3	153.9	165.7	180.8	193.9
82.5°	84.7	85.4	87.1	92.4	93.8	101.9	109.9	121.6	132.2	142.3	153.2
85°	46.1	46.1	49.5	51.6	55.0	60.5	65.3	72.2	81.8	88.7	99.0
87.5°	20.9	21.4	24.1	25.7	27.8	31.0	32.5	38.8	41.4	44.5	49.7
90°	16.6	19.4	21.6	23.9	26.3	28.6	30.3	32.0	33.8	35.5	36.7
92.5°	17.0	18.3	20.6	22.9	25.2	27.6	29.3	31.0	32.7	34.4	35.4
95°	32.2	27.4	27.7	28.0	28.2	28.6	30.3	32.0	33.8	35.5	36.5
97.5°	176.2	163.1	130.9	98.7	66.5	34.3	34.4	34.6	34.8	35.0	35.2
100°	233.7	216.4	176.6	136.7	96.9	57.2	52.3	47.4	42.4	37.5	35.2
102.5°	296.7	296.0	290.8	285.7	280.4	275.3	222.3	169.4	116.5	63.6	37.2
105°	397.8	399.3	400.8	402.3	403.6	405.1	407.7	410.3	412.9	415.5	411.6
107.5°	495.8	497.2	499.2	501.2	503.1	505.1	506.4	507.6	508.9	510.1	511.3
110°	564.4	565.7	567.4	569.1	570.8	572.6	573.2	573.8	574.4	574.9	575.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	633.6	634.8	635.6	636.5	637.2	638.1	637.9	637.8	637.7	637.6	638.1
115°	733.1	733.5	733.1	732.9	732.6	732.3	732.9	733.5	734.0	734.6	734.9
117.5°	826.6	827.4	828.0	828.7	829.3	829.9	829.8	829.7	829.6	829.5	829.4
120°	888.8	889.2	889.0	888.7	888.4	888.1	888.7	889.2	889.8	890.4	890.4
122.5°	945.2	945.7	946.2	946.5	946.9	947.4	947.7	948.0	948.4	948.7	948.6
125°	1030.4	1030.6	1030.1	1029.5	1028.9	1028.4	1029.2	1030.1	1031.0	1031.8	1032.4
127.5°	1105.9	1106.6	1108.0	1109.3	1110.6	1112.0	1111.8	1111.6	1111.5	1111.3	1111.0
130°	1156.8	1157.4	1158.2	1159.1	1159.9	1160.8	1161.1	1161.4	1161.7	1161.9	1162.1
132.5°	1204.5	1205.2	1206.3	1207.4	1208.5	1209.6	1209.9	1210.2	1210.5	1210.7	1210.8
135°	1271.3	1271.7	1272.9	1274.0	1275.2	1276.3	1276.9	1277.5	1278.1	1278.7	1279.3
137.5°	1335.0	1335.7	1337.0	1338.3	1339.5	1340.7	1341.4	1342.0	1342.6	1343.3	1343.5
140°	1377.3	1377.9	1378.5	1379.1	1379.7	1380.2	1381.1	1382.0	1382.9	1383.7	1384.2
142.5°	1415.6	1416.3	1416.6	1416.9	1417.3	1417.6	1418.2	1418.9	1419.5	1420.1	1420.5
145°	1470.7	1471.1	1471.1	1471.1	1471.1	1471.1	1471.4	1471.7	1472.0	1472.2	1472.7
147.5°	1518.1	1518.7	1518.5	1518.2	1517.9	1517.6	1517.9	1518.0	1518.3	1518.5	1518.8
150°	1548.4	1548.9	1548.6	1548.3	1548.0	1547.7	1547.7	1547.7	1547.7	1547.7	1547.9
152.5°	1574.5	1574.8	1574.2	1573.6	1573.1	1572.6	1573.1	1573.6	1574.0	1574.5	1574.6
155°	1609.9	1609.6	1608.8	1607.9	1607.1	1606.1	1607.3	1608.4	1609.6	1610.8	1610.9
157.5°	1640.0	1639.4	1638.4	1637.4	1636.5	1635.5	1637.0	1638.5	1640.0	1641.5	1641.5
160°	1656.0	1655.4	1655.0	1654.8	1654.5	1654.2	1656.0	1657.7	1659.4	1661.1	1661.1
162.5°	1671.6	1670.9	1670.6	1670.3	1670.1	1669.7	1671.5	1673.3	1675.0	1676.7	1676.5
165°	1691.3	1690.6	1690.6	1690.6	1690.6	1690.6	1692.8	1695.1	1697.5	1699.8	1699.6
167.5°	1707.6	1706.8	1706.7	1706.5	1706.3	1706.2	1708.7	1711.2	1713.7	1716.3	1716.1
170°	1716.1	1715.4	1715.6	1716.0	1716.2	1716.5	1718.8	1721.1	1723.5	1725.8	1725.4
172.5°	1722.3	1721.6	1721.9	1722.2	1722.4	1722.8	1725.0	1727.3	1729.7	1732.0	1731.6
175°	1729.1	1728.4	1728.6	1728.9	1729.2	1729.5	1732.1	1734.7	1737.3	1739.9	1739.5
177.5°	1732.7	1732.1	1732.5	1733.0	1733.5	1733.9	1735.8	1737.6	1739.5	1741.3	1740.9
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



TEST NUMBER: P332859-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1581.4	1580.3	1576.4	1575.9	1576.4	1580.3	1581.4	1582.4	1584.2	1589.6	1583.0
5°	1460.8	1457.3	1455.3	1462.8	1455.3	1457.3	1460.8	1464.9	1471.8	1472.5	1479.4
7.5°	1369.9	1367.2	1361.2	1359.2	1361.2	1367.2	1369.9	1372.3	1379.2	1385.2	1395.3
10°	1311.6	1308.9	1303.4	1302.0	1303.4	1308.9	1311.6	1318.5	1325.3	1332.9	1339.8
12.5°	1255.5	1250.0	1249.0	1250.3	1249.0	1250.0	1255.5	1264.6	1282.5	1282.4	1283.8
15°	1181.0	1178.3	1170.7	1172.8	1170.7	1178.3	1181.0	1190.0	1198.2	1208.5	1218.8
17.5°	1107.6	1104.3	1095.1	1103.2	1095.1	1104.3	1107.6	1112.4	1123.0	1137.6	1153.1
20°	1061.4	1055.9	1051.1	1050.4	1051.1	1055.9	1061.4	1066.2	1077.9	1090.3	1102.0
22.5°	1017.4	1012.4	1012.0	1007.5	1012.0	1012.4	1017.4	1024.9	1036.6	1043.5	1054.6
25°	962.4	957.6	956.2	952.8	956.2	957.6	962.4	967.9	975.4	980.9	993.3
27.5°	920.2	917.8	915.4	916.4	915.4	917.8	920.2	920.9	924.3	931.6	938.7
30°	894.3	893.6	892.3	892.3	892.3	893.6	894.3	892.3	895.7	899.1	904.7
32.5°	872.9	872.8	873.6	873.6	873.6	872.8	872.9	869.8	871.0	872.2	874.9
35°	842.8	844.8	846.2	844.1	846.2	844.8	842.8	840.1	838.0	833.2	834.6
37.5°	815.5	817.6	819.6	821.9	819.6	817.6	815.5	809.9	804.9	800.7	795.7
40°	794.7	799.5	800.8	804.3	800.8	799.5	794.7	788.5	783.0	778.2	772.7
42.5°	774.9	780.2	783.8	784.5	783.8	780.2	774.9	768.7	760.4	754.5	746.8
45°	744.5	750.0	754.8	754.8	754.8	750.0	744.5	734.2	725.2	716.3	708.8
47.5°	713.0	721.0	725.8	727.0	725.8	721.0	713.0	702.4	689.9	678.9	668.0
50°	691.6	701.2	706.0	709.5	706.0	701.2	691.6	679.8	666.8	653.1	640.0
52.5°	670.6	680.3	686.7	688.5	686.7	680.3	670.6	656.3	640.4	625.6	614.2
55°	634.5	648.2	655.8	658.6	655.8	648.2	634.5	618.7	603.6	585.0	568.5
57.5°	600.4	613.0	621.8	623.9	621.8	613.0	600.4	581.9	562.3	542.5	525.0
60°	574.0	587.7	598.7	600.8	598.7	587.7	574.0	555.4	534.9	515.6	493.6
62.5°	547.1	561.4	571.3	576.6	571.3	561.4	547.1	527.4	505.1	483.7	461.7
65°	500.4	514.9	524.5	526.6	524.5	514.9	500.4	481.2	457.8	435.1	416.6
67.5°	449.6	464.0	470.4	474.3	470.4	464.0	449.6	431.4	408.4	384.9	363.8
70°	413.8	425.5	432.4	435.8	432.4	425.5	413.8	394.6	375.3	351.3	328.6
72.5°	373.2	385.4	393.4	394.0	393.4	385.4	373.2	356.6	336.3	313.9	293.9
75°	310.7	321.8	325.8	325.8	325.8	321.8	310.7	294.9	278.4	260.5	240.6
77.5°	246.0	251.6	256.8	258.0	256.8	251.6	246.0	234.5	220.9	203.1	188.0
80°	204.1	207.6	211.7	211.7	211.7	207.6	204.1	193.9	180.8	165.7	153.9
82.5°	161.3	164.2	168.3	167.7	168.3	164.2	161.3	153.2	142.3	132.2	121.6
85°	97.6	103.8	103.1	101.8	103.1	103.8	97.6	99.0	88.7	81.8	72.2
87.5°	51.4	52.1	53.9	55.1	53.9	52.1	51.4	49.7	44.5	41.4	38.8
90°	37.2	37.8	38.4	38.9	38.4	37.8	37.2	36.7	35.5	33.8	32.0
92.5°	35.5	35.6	35.7	35.8	35.7	35.6	35.5	35.4	34.4	32.7	31.0
95°	36.8	37.1	37.4	37.6	37.4	37.1	36.8	36.5	35.5	33.8	32.0
97.5°	35.5	35.8	36.1	36.3	36.1	35.8	35.5	35.2	35.0	34.8	34.6
100°	35.5	35.8	36.1	36.3	36.1	35.8	35.5	35.2	37.5	42.4	47.4
102.5°	37.2	37.3	37.4	37.4	37.4	37.3	37.2	37.2	63.6	116.5	169.4
105°	401.2	390.8	380.5	370.1	380.5	390.8	401.2	411.6	415.5	412.9	410.3
107.5°	512.5	513.5	514.6	515.7	514.6	513.5	512.5	511.3	510.1	508.9	507.6
110°	576.5	577.4	578.2	579.1	578.2	577.4	576.5	575.7	574.9	574.4	573.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	639.2	640.2	641.4	642.5	641.4	640.2	639.2	638.1	637.6	637.7	637.8
115°	734.9	734.9	734.9	734.9	734.9	734.9	734.9	734.9	734.6	734.0	733.5
117.5°	829.2	829.1	829.1	828.9	829.1	829.1	829.2	829.4	829.5	829.6	829.7
120°	889.8	889.2	888.7	888.1	888.7	889.2	889.8	890.4	890.4	889.8	889.2
122.5°	948.0	947.4	946.8	946.3	946.8	947.4	948.0	948.6	948.7	948.4	948.0
125°	1032.7	1032.9	1033.3	1033.5	1033.3	1032.9	1032.7	1032.4	1031.8	1031.0	1030.1
127.5°	1110.9	1110.6	1110.3	1110.2	1110.3	1110.6	1110.9	1111.0	1111.3	1111.5	1111.6
130°	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1161.9	1161.7	1161.4
132.5°	1210.6	1210.3	1210.1	1209.9	1210.1	1210.3	1210.6	1210.8	1210.7	1210.5	1210.2
135°	1279.8	1280.4	1281.0	1281.5	1281.0	1280.4	1279.8	1279.3	1278.7	1278.1	1277.5
137.5°	1343.3	1343.2	1343.0	1342.8	1343.0	1343.2	1343.3	1343.5	1343.3	1342.6	1342.0
140°	1384.6	1384.8	1385.1	1385.4	1385.1	1384.8	1384.6	1384.2	1383.7	1382.9	1382.0
142.5°	1420.6	1420.6	1420.6	1420.7	1420.6	1420.6	1420.6	1420.5	1420.1	1419.5	1418.9
145°	1473.3	1473.9	1474.5	1475.0	1474.5	1473.9	1473.3	1472.7	1472.2	1472.0	1471.7
147.5°	1519.1	1519.3	1519.7	1519.9	1519.7	1519.3	1519.1	1518.8	1518.5	1518.3	1518.0
150°	1548.2	1548.4	1548.8	1549.0	1548.8	1548.4	1548.2	1547.9	1547.7	1547.7	1547.7
152.5°	1574.4	1574.3	1574.1	1573.9	1574.1	1574.3	1574.4	1574.6	1574.5	1574.0	1573.6
155°	1610.1	1609.2	1608.3	1607.5	1608.3	1609.2	1610.1	1610.9	1610.8	1609.6	1608.4
157.5°	1640.0	1638.5	1637.0	1635.5	1637.0	1638.5	1640.0	1641.5	1641.5	1640.0	1638.5
160°	1659.4	1657.7	1656.0	1654.2	1656.0	1657.7	1659.4	1661.1	1661.1	1659.4	1657.7
162.5°	1674.6	1672.7	1670.7	1668.7	1670.7	1672.7	1674.6	1676.5	1676.7	1675.0	1673.3
165°	1697.0	1694.4	1691.9	1689.3	1691.9	1694.4	1697.0	1699.6	1699.8	1697.5	1695.1
167.5°	1713.2	1710.4	1707.4	1704.6	1707.4	1710.4	1713.2	1716.1	1716.3	1713.7	1711.2
170°	1722.6	1719.7	1716.8	1713.9	1716.8	1719.7	1722.6	1725.4	1725.8	1723.5	1721.1
172.5°	1728.5	1725.4	1722.3	1719.1	1722.3	1725.4	1728.5	1731.6	1732.0	1729.7	1727.3
175°	1735.9	1732.5	1729.1	1725.6	1729.1	1732.5	1735.9	1739.5	1739.9	1737.3	1734.7
177.5°	1738.1	1735.3	1732.5	1729.7	1732.5	1735.3	1738.1	1740.9	1741.3	1739.5	1737.6
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1586.3	1588.5	1597.3	1605.6	1615.5	1622.6	1627.5	1633.1	1644.6	1654.0	1662.8
5°	1486.3	1489.7	1507.5	1519.9	1541.2	1559.8	1574.3	1590.0	1608.6	1634.0	1657.4
7.5°	1398.1	1410.9	1430.4	1450.4	1472.2	1496.5	1517.7	1541.5	1573.6	1608.4	1644.5
10°	1348.1	1362.5	1383.1	1406.5	1427.1	1455.3	1481.4	1509.6	1546.0	1588.6	1631.3
12.5°	1298.0	1321.8	1337.5	1365.2	1387.5	1410.7	1438.6	1475.5	1518.0	1562.8	1614.2
15°	1235.3	1248.4	1278.6	1293.7	1325.3	1361.2	1388.6	1425.7	1467.0	1526.1	1583.8
17.5°	1163.0	1180.2	1204.3	1233.1	1269.4	1297.4	1331.5	1369.8	1421.8	1480.5	1552.8
20°	1115.7	1130.1	1159.7	1191.3	1229.9	1259.4	1295.8	1332.9	1386.6	1449.1	1524.7
22.5°	1073.3	1087.3	1118.4	1147.9	1185.3	1221.4	1259.5	1302.7	1354.1	1420.0	1497.2
25°	1007.8	1026.3	1053.9	1084.1	1119.8	1161.1	1202.3	1240.8	1295.8	1365.2	1447.8
27.5°	949.6	964.5	984.4	1018.7	1059.4	1099.2	1140.1	1188.6	1241.4	1314.7	1400.4
30°	912.2	926.0	945.9	977.5	1015.4	1058.0	1100.6	1147.3	1202.3	1275.2	1362.5
32.5°	882.5	892.9	910.7	939.0	973.5	1018.4	1060.4	1108.8	1166.6	1238.4	1323.4
35°	838.7	847.6	854.5	881.3	912.2	953.5	996.1	1047.7	1103.4	1171.4	1256.6
37.5°	795.7	798.7	808.7	826.3	856.3	894.2	933.8	984.6	1041.6	1110.8	1187.6
40°	769.2	770.6	776.8	793.3	819.4	855.1	893.6	943.8	998.2	1063.4	1139.8
42.5°	743.4	742.5	748.2	759.7	784.2	816.7	854.6	900.4	954.7	1015.0	1086.9
45°	702.6	702.6	701.2	710.8	730.7	762.3	794.0	838.0	883.4	942.5	1003.0
47.5°	660.0	656.1	657.3	662.3	679.1	705.1	736.9	772.9	813.0	863.0	916.1
50°	632.4	627.0	624.9	630.3	645.5	668.2	698.4	730.0	767.8	811.8	857.2
52.5°	602.2	596.7	593.0	596.8	610.9	631.9	659.4	687.2	721.1	756.9	796.2
55°	555.4	549.2	547.2	548.5	558.9	575.4	598.7	624.2	649.6	679.2	706.7
57.5°	509.4	499.2	497.3	496.6	503.8	518.8	538.4	560.4	578.9	596.8	626.1
60°	479.1	466.7	462.6	461.9	467.4	479.8	497.7	519.7	532.8	545.1	570.6
62.5°	446.7	434.9	425.8	426.8	431.7	443.5	459.2	475.2	483.8	497.3	514.4
65°	396.7	381.5	374.6	372.6	375.3	385.0	397.4	407.7	417.2	422.8	439.3
67.5°	346.6	334.0	323.8	321.3	320.0	326.7	336.8	343.0	349.9	354.7	364.5
70°	311.4	300.4	288.0	283.9	283.2	288.7	298.3	299.0	308.7	310.7	321.1
72.5°	276.7	263.0	254.5	250.4	247.5	252.4	258.7	260.5	265.8	269.5	274.8
75°	222.7	212.4	204.1	197.9	195.9	198.6	198.6	202.1	205.5	207.6	213.8
77.5°	175.3	163.5	153.7	150.2	147.7	145.9	147.4	149.5	147.8	151.4	152.7
80°	142.3	129.9	122.3	121.0	116.8	113.4	112.7	114.8	112.0	113.4	117.5
82.5°	109.9	101.9	93.8	92.4	87.1	85.4	84.7	83.4	83.4	83.2	84.0
85°	65.3	60.5	55.0	51.6	49.5	46.1	46.1	44.7	43.3	41.9	42.6
87.5°	32.5	31.0	27.8	25.7	24.1	21.4	20.9	18.6	17.5	16.3	15.1
90°	30.3	28.6	26.3	23.9	21.6	19.4	16.6	13.4	10.2	7.1	3.9
92.5°	29.3	27.6	25.2	22.9	20.6	18.3	17.0	16.9	16.7	16.5	16.4
95°	30.3	28.6	28.2	28.0	27.7	27.4	32.2	42.0	51.8	61.6	71.4
97.5°	34.4	34.3	66.5	98.7	130.9	163.1	176.2	170.0	163.8	157.7	151.6
100°	52.3	57.2	96.9	136.7	176.6	216.4	233.7	228.5	223.3	218.2	212.9
102.5°	222.3	275.3	280.4	285.7	290.8	296.0	296.7	292.9	289.1	285.3	281.5
105°	407.7	405.1	403.6	402.3	400.8	399.3	397.8	396.1	394.3	392.5	390.8
107.5°	506.4	505.1	503.1	501.2	499.2	497.2	495.8	495.0	494.1	493.3	492.3
110°	573.2	572.6	570.8	569.1	567.4	565.7	564.4	563.5	562.7	561.8	560.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	637.9	638.1	637.2	636.5	635.6	634.8	633.6	632.1	630.5	629.0	627.4
115°	732.9	732.3	732.6	732.9	733.1	733.5	733.1	732.3	731.4	730.6	729.7
117.5°	829.8	829.9	829.3	828.7	828.0	827.4	826.6	825.4	824.2	823.0	821.9
120°	888.7	888.1	888.4	888.7	889.0	889.2	888.8	887.7	886.6	885.4	884.2
122.5°	947.7	947.4	946.9	946.5	946.2	945.7	945.2	944.4	943.7	943.1	942.4
125°	1029.2	1028.4	1028.9	1029.5	1030.1	1030.6	1030.4	1029.2	1028.0	1026.9	1025.8
127.5°	1111.8	1112.0	1110.6	1109.3	1108.0	1106.6	1105.9	1105.5	1105.3	1105.0	1104.7
130°	1161.1	1160.8	1159.9	1159.1	1158.2	1157.4	1156.8	1156.5	1156.2	1155.9	1155.6
132.5°	1209.9	1209.6	1208.5	1207.4	1206.3	1205.2	1204.5	1203.9	1203.4	1202.8	1202.3
135°	1276.9	1276.3	1275.2	1274.0	1272.9	1271.7	1271.3	1271.6	1271.9	1272.1	1272.5
137.5°	1341.4	1340.7	1339.5	1338.3	1337.0	1335.7	1335.0	1334.9	1334.7	1334.6	1334.6
140°	1381.1	1380.2	1379.7	1379.1	1378.5	1377.9	1377.3	1376.7	1376.2	1375.6	1375.0
142.5°	1418.2	1417.6	1417.3	1416.9	1416.6	1416.3	1415.6	1414.5	1413.5	1412.4	1411.4
145°	1471.4	1471.1	1471.1	1471.1	1471.1	1471.1	1470.7	1469.8	1469.0	1468.1	1467.2
147.5°	1517.9	1517.6	1517.9	1518.2	1518.5	1518.7	1518.1	1516.5	1514.8	1513.2	1511.7
150°	1547.7	1547.7	1548.0	1548.3	1548.6	1548.9	1548.4	1547.3	1546.1	1545.0	1543.9
152.5°	1573.1	1572.6	1573.1	1573.6	1574.2	1574.8	1574.5	1573.6	1572.7	1571.8	1570.8
155°	1607.3	1606.1	1607.1	1607.9	1608.8	1609.6	1609.9	1609.6	1609.3	1609.0	1608.8
157.5°	1637.0	1635.5	1636.5	1637.4	1638.4	1639.4	1640.0	1640.2	1640.4	1640.5	1640.7
160°	1656.0	1654.2	1654.5	1654.8	1655.0	1655.4	1656.0	1656.8	1657.7	1658.5	1659.4
162.5°	1671.5	1669.7	1670.1	1670.3	1670.6	1670.9	1671.6	1672.8	1673.8	1674.9	1676.0
165°	1692.8	1690.6	1690.6	1690.6	1690.6	1690.6	1691.3	1692.7	1694.2	1695.6	1697.0
167.5°	1708.7	1706.2	1706.3	1706.5	1706.7	1706.8	1707.6	1709.2	1710.6	1712.2	1713.6
170°	1718.8	1716.5	1716.2	1716.0	1715.6	1715.4	1716.1	1717.8	1719.5	1721.3	1723.0
172.5°	1725.0	1722.8	1722.4	1722.2	1721.9	1721.6	1722.3	1724.1	1725.8	1727.5	1729.2
175°	1732.1	1729.5	1729.2	1728.9	1728.6	1728.4	1729.1	1730.8	1732.5	1734.2	1735.9
177.5°	1735.8	1733.9	1733.5	1733.0	1732.5	1732.1	1732.7	1734.2	1735.9	1737.5	1739.1
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1670.4	1675.9	1683.1	1695.2	1699.6	1705.1	1712.8	1712.3	1714.4	1722.7	1740.3
5°	1676.6	1698.0	1718.6	1743.4	1769.4	1786.7	1810.0	1824.5	1838.9	1857.4	1889.0
7.5°	1679.1	1713.0	1750.8	1794.2	1832.8	1877.4	1912.2	1944.9	1974.4	2013.6	2051.3
10°	1675.2	1720.6	1769.4	1824.5	1882.8	1932.3	1977.0	2027.9	2071.2	2118.7	2161.3
12.5°	1668.1	1722.9	1788.1	1849.8	1918.0	1991.2	2046.9	2098.3	2155.9	2210.5	2276.2
15°	1651.9	1726.8	1803.1	1884.2	1975.7	2060.2	2140.7	2207.3	2269.3	2351.0	2437.0
17.5°	1631.3	1712.1	1808.4	1906.5	2002.1	2098.8	2198.3	2298.5	2376.6	2478.2	2545.5
20°	1612.1	1705.6	1804.5	1921.4	2016.9	2137.3	2236.2	2333.1	2440.4	2541.4	2621.8
22.5°	1585.1	1687.4	1792.4	1908.8	2034.5	2154.8	2269.3	2374.4	2481.7	2591.5	2689.0
25°	1550.8	1643.6	1768.1	1900.1	2025.2	2155.8	2287.1	2419.1	2534.5	2650.8	2741.5
27.5°	1492.5	1609.7	1725.6	1861.8	2000.9	2148.6	2289.1	2427.2	2548.2	2643.7	2699.9
30°	1462.8	1564.6	1690.4	1827.2	1977.7	2136.6	2282.9	2418.4	2531.2	2607.5	2630.1
32.5°	1418.8	1523.9	1646.9	1788.7	1948.0	2111.3	2263.7	2391.4	2485.4	2525.5	2498.1
35°	1353.6	1448.5	1572.9	1717.9	1883.5	2057.4	2208.0	2315.9	2364.0	2326.2	2232.1
37.5°	1275.2	1369.2	1494.2	1636.7	1808.1	1984.9	2121.0	2198.6	2182.7	2088.7	1948.4
40°	1220.2	1308.2	1427.1	1581.1	1748.2	1925.5	2045.1	2087.1	2043.1	1908.3	1759.1
42.5°	1159.2	1244.9	1364.4	1512.9	1689.9	1853.5	1957.7	1961.1	1887.4	1726.3	1576.6
45°	1066.2	1148.0	1260.8	1415.4	1579.1	1733.0	1801.7	1768.1	1631.9	1476.6	1326.0
47.5°	974.5	1045.4	1156.5	1303.4	1458.7	1588.4	1622.5	1561.9	1416.8	1266.0	1126.4
50°	907.4	978.9	1083.4	1223.7	1373.5	1485.6	1502.0	1421.6	1279.3	1127.4	1018.0
52.5°	843.1	914.0	1014.7	1144.4	1281.7	1382.7	1383.3	1290.2	1148.4	1013.0	911.4
55°	748.6	812.5	903.3	1019.4	1141.9	1220.9	1201.6	1105.4	982.3	864.8	776.1
57.5°	657.6	713.3	796.9	893.8	1001.6	1066.8	1034.8	942.2	832.3	732.6	665.5
60°	598.7	651.7	723.2	814.6	905.3	956.2	926.0	842.1	741.1	660.6	602.2
62.5°	541.6	586.3	655.0	734.3	818.5	856.1	829.1	746.4	659.1	586.3	539.0
65°	460.5	497.1	552.0	620.1	681.2	713.6	690.9	613.9	547.2	495.0	457.1
67.5°	385.0	413.5	455.0	509.6	561.6	579.1	558.4	504.9	448.3	406.6	379.9
70°	332.7	359.6	394.6	436.5	481.9	500.4	479.8	437.2	391.2	352.7	326.5
72.5°	287.1	307.8	337.4	373.2	408.7	427.3	413.3	372.3	333.4	304.8	282.5
75°	218.6	236.5	257.1	282.5	310.0	322.4	310.0	281.8	255.0	233.8	217.9
77.5°	158.9	168.6	184.5	203.5	220.7	230.1	219.5	200.4	184.0	169.4	161.5
80°	121.0	127.9	138.9	153.9	165.7	174.6	167.7	151.9	138.9	129.2	125.8
82.5°	88.0	92.6	99.8	111.1	118.9	123.5	120.5	109.0	103.7	95.1	91.7
85°	43.3	46.1	50.9	54.3	61.2	61.9	62.6	57.8	53.0	50.9	48.1
87.5°	16.3	17.5	19.7	22.0	24.8	25.7	25.7	26.2	24.5	24.2	22.4
90°	7.1	10.2	13.4	16.6	19.4	21.6	23.9	26.3	28.6	30.3	32.0
92.5°	16.5	16.7	16.9	17.0	18.3	20.6	22.9	25.2	27.6	29.3	31.0
95°	61.6	51.8	42.0	32.2	27.4	27.7	28.0	28.2	28.6	30.3	32.0
97.5°	157.7	163.8	170.0	176.2	163.1	130.9	98.7	66.5	34.3	34.4	34.6
100°	218.2	223.3	228.5	233.7	216.4	176.6	136.7	96.9	57.2	52.3	47.4
102.5°	285.3	289.1	292.9	296.7	296.0	290.8	285.7	280.4	275.3	222.3	169.4
105°	392.5	394.3	396.1	397.8	399.3	400.8	402.3	403.6	405.1	407.7	410.3
107.5°	493.3	494.1	495.0	495.8	497.2	499.2	501.2	503.1	505.1	506.4	507.6
110°	561.8	562.7	563.5	564.4	565.7	567.4	569.1	570.8	572.6	573.2	573.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	629.0	630.5	632.1	633.6	634.8	635.6	636.5	637.2	638.1	637.9	637.8
115°	730.6	731.4	732.3	733.1	733.5	733.1	732.9	732.6	732.3	732.9	733.5
117.5°	823.0	824.2	825.4	826.6	827.4	828.0	828.7	829.3	829.9	829.8	829.7
120°	885.4	886.6	887.7	888.8	889.2	889.0	888.7	888.4	888.1	888.7	889.2
122.5°	943.1	943.7	944.4	945.2	945.7	946.2	946.5	946.9	947.4	947.7	948.0
125°	1026.9	1028.0	1029.2	1030.4	1030.6	1030.1	1029.5	1028.9	1028.4	1029.2	1030.1
127.5°	1105.0	1105.3	1105.5	1105.9	1106.6	1108.0	1109.3	1110.6	1112.0	1111.8	1111.6
130°	1155.9	1156.2	1156.5	1156.8	1157.4	1158.2	1159.1	1159.9	1160.8	1161.1	1161.4
132.5°	1202.8	1203.4	1203.9	1204.5	1205.2	1206.3	1207.4	1208.5	1209.6	1209.9	1210.2
135°	1272.1	1271.9	1271.6	1271.3	1271.7	1272.9	1274.0	1275.2	1276.3	1276.9	1277.5
137.5°	1334.6	1334.7	1334.9	1335.0	1335.7	1337.0	1338.3	1339.5	1340.7	1341.4	1342.0
140°	1375.6	1376.2	1376.7	1377.3	1377.9	1378.5	1379.1	1379.7	1380.2	1381.1	1382.0
142.5°	1412.4	1413.5	1414.5	1415.6	1416.3	1416.6	1416.9	1417.3	1417.6	1418.2	1418.9
145°	1468.1	1469.0	1469.8	1470.7	1471.1	1471.1	1471.1	1471.1	1471.1	1471.4	1471.7
147.5°	1513.2	1514.8	1516.5	1518.1	1518.7	1518.5	1518.2	1517.9	1517.6	1517.9	1518.0
150°	1545.0	1546.1	1547.3	1548.4	1548.9	1548.6	1548.3	1548.0	1547.7	1547.7	1547.7
152.5°	1571.8	1572.7	1573.6	1574.5	1574.8	1574.2	1573.6	1573.1	1572.6	1573.1	1573.6
155°	1609.0	1609.3	1609.6	1609.9	1609.6	1608.8	1607.9	1607.1	1606.1	1607.3	1608.4
157.5°	1640.5	1640.4	1640.2	1640.0	1639.4	1638.4	1637.4	1636.5	1635.5	1637.0	1638.5
160°	1658.5	1657.7	1656.8	1656.0	1655.4	1655.0	1654.8	1654.5	1654.2	1656.0	1657.7
162.5°	1674.9	1673.8	1672.8	1671.6	1670.9	1670.6	1670.3	1670.1	1669.7	1671.5	1673.3
165°	1695.6	1694.2	1692.7	1691.3	1690.6	1690.6	1690.6	1690.6	1690.6	1692.8	1695.1
167.5°	1712.2	1710.6	1709.2	1707.6	1706.8	1706.7	1706.5	1706.3	1706.2	1708.7	1711.2
170°	1721.3	1719.5	1717.8	1716.1	1715.4	1715.6	1716.0	1716.2	1716.5	1718.8	1721.1
172.5°	1727.5	1725.8	1724.1	1722.3	1721.6	1721.9	1722.2	1722.4	1722.8	1725.0	1727.3
175°	1734.2	1732.5	1730.8	1729.1	1728.4	1728.6	1728.9	1729.2	1729.5	1732.1	1734.7
177.5°	1737.5	1735.9	1734.2	1732.7	1732.1	1732.5	1733.0	1733.5	1733.9	1735.8	1737.6
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1749.1	1750.2	1755.1	1759.0	1760.1	1765.6	1766.2
5°	1902.8	1914.5	1937.2	1939.2	1942.7	1960.6	1946.8
7.5°	2082.9	2112.6	2132.4	2149.9	2156.2	2164.0	2162.4
10°	2198.4	2242.4	2264.4	2299.5	2300.9	2309.8	2304.3
12.5°	2314.5	2365.6	2405.7	2412.2	2441.6	2446.2	2453.8
15°	2478.9	2533.1	2588.9	2608.8	2649.4	2659.0	2674.1
17.5°	2633.5	2689.0	2728.0	2779.6	2796.2	2818.5	2803.3
20°	2718.1	2778.6	2828.1	2868.7	2885.8	2898.2	2896.8
22.5°	2769.2	2830.3	2870.4	2901.1	2917.2	2922.4	2922.1
25°	2801.3	2836.3	2848.7	2860.4	2842.5	2836.3	2839.1
27.5°	2712.2	2703.1	2670.8	2628.5	2584.5	2549.5	2530.6
30°	2589.5	2535.9	2487.2	2401.8	2357.9	2331.8	2308.4
32.5°	2415.8	2330.8	2236.9	2158.8	2108.8	2070.0	2064.2
35°	2118.0	1990.1	1875.3	1779.8	1730.3	1688.3	1678.7
37.5°	1800.7	1667.8	1564.4	1480.3	1427.1	1397.6	1369.9
40°	1590.0	1475.9	1374.2	1302.7	1262.1	1240.8	1223.7
42.5°	1427.8	1323.6	1222.4	1167.9	1131.3	1118.2	1108.1
45°	1203.7	1106.7	1036.6	995.4	974.0	952.1	941.8
47.5°	1024.2	945.4	899.1	864.1	841.3	828.2	821.7
50°	922.6	857.9	816.7	789.9	769.2	758.9	753.5
52.5°	832.3	779.3	744.6	723.3	709.3	701.7	699.6
55°	717.0	676.4	654.4	635.8	625.6	618.7	616.0
57.5°	623.2	592.0	574.1	558.9	554.9	549.1	547.2
60°	561.6	537.6	522.5	512.1	508.7	501.8	503.2
62.5°	507.2	487.5	474.6	468.7	464.2	458.4	460.3
65°	429.0	414.5	407.7	402.2	396.7	393.2	396.0
67.5°	359.9	350.1	340.7	337.5	334.8	334.2	331.3
70°	314.9	306.6	298.3	296.3	296.3	293.5	292.8
72.5°	271.4	265.4	259.8	258.3	256.1	257.3	254.3
75°	209.7	204.8	202.8	200.7	200.0	200.0	197.9
77.5°	155.0	151.4	148.1	148.1	145.6	144.6	144.4
80°	117.5	116.1	113.4	113.4	112.0	112.7	111.3
82.5°	88.4	86.4	85.9	84.8	82.9	83.0	81.7
85°	47.4	45.4	44.7	42.6	41.2	42.6	41.2
87.5°	23.2	23.1	22.7	21.8	21.3	21.4	19.9
90°	33.8	35.5	36.7	37.2	37.8	38.4	38.9
92.5°	32.7	34.4	35.4	35.5	35.6	35.7	35.8
95°	33.8	35.5	36.5	36.8	37.1	37.4	37.6
97.5°	34.8	35.0	35.2	35.5	35.8	36.1	36.3
100°	42.4	37.5	35.2	35.5	35.8	36.1	36.3
102.5°	116.5	63.6	37.2	37.2	37.3	37.4	37.4
105°	412.9	415.5	411.6	401.2	390.8	380.5	370.1
107.5°	508.9	510.1	511.3	512.5	513.5	514.6	515.7
110°	574.4	574.9	575.7	576.5	577.4	578.2	579.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	637.7	637.6	638.1	639.2	640.2	641.4	642.5
115°	734.0	734.6	734.9	734.9	734.9	734.9	734.9
117.5°	829.6	829.5	829.4	829.2	829.1	829.1	828.9
120°	889.8	890.4	890.4	889.8	889.2	888.7	888.1
122.5°	948.4	948.7	948.6	948.0	947.4	946.8	946.3
125°	1031.0	1031.8	1032.4	1032.7	1032.9	1033.3	1033.5
127.5°	1111.5	1111.3	1111.0	1110.9	1110.6	1110.3	1110.2
130°	1161.7	1161.9	1162.1	1162.1	1162.1	1162.1	1162.1
132.5°	1210.5	1210.7	1210.8	1210.6	1210.3	1210.1	1209.9
135°	1278.1	1278.7	1279.3	1279.8	1280.4	1281.0	1281.5
137.5°	1342.6	1343.3	1343.5	1343.3	1343.2	1343.0	1342.8
140°	1382.9	1383.7	1384.2	1384.6	1384.8	1385.1	1385.4
142.5°	1419.5	1420.1	1420.5	1420.6	1420.6	1420.6	1420.7
145°	1472.0	1472.2	1472.7	1473.3	1473.9	1474.5	1475.0
147.5°	1518.3	1518.5	1518.8	1519.1	1519.3	1519.7	1519.9
150°	1547.7	1547.7	1547.9	1548.2	1548.4	1548.8	1549.0
152.5°	1574.0	1574.5	1574.6	1574.4	1574.3	1574.1	1573.9
155°	1609.6	1610.8	1610.9	1610.1	1609.2	1608.3	1607.5
157.5°	1640.0	1641.5	1641.5	1640.0	1638.5	1637.0	1635.5
160°	1659.4	1661.1	1661.1	1659.4	1657.7	1656.0	1654.2
162.5°	1675.0	1676.7	1676.5	1674.6	1672.7	1670.7	1668.7
165°	1697.5	1699.8	1699.6	1697.0	1694.4	1691.9	1689.3
167.5°	1713.7	1716.3	1716.1	1713.2	1710.4	1707.4	1704.6
170°	1723.5	1725.8	1725.4	1722.6	1719.7	1716.8	1713.9
172.5°	1729.7	1732.0	1731.6	1728.5	1725.4	1722.3	1719.1
175°	1737.3	1739.9	1739.5	1735.9	1732.5	1729.1	1725.6
177.5°	1739.5	1741.3	1740.9	1738.1	1735.3	1732.5	1729.7
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9

(END OF REPORT)