

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: P333088-940

Luminaire Tested: **S124RDIW-S1020D1340U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333088-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1020D1340U940-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8020.5 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

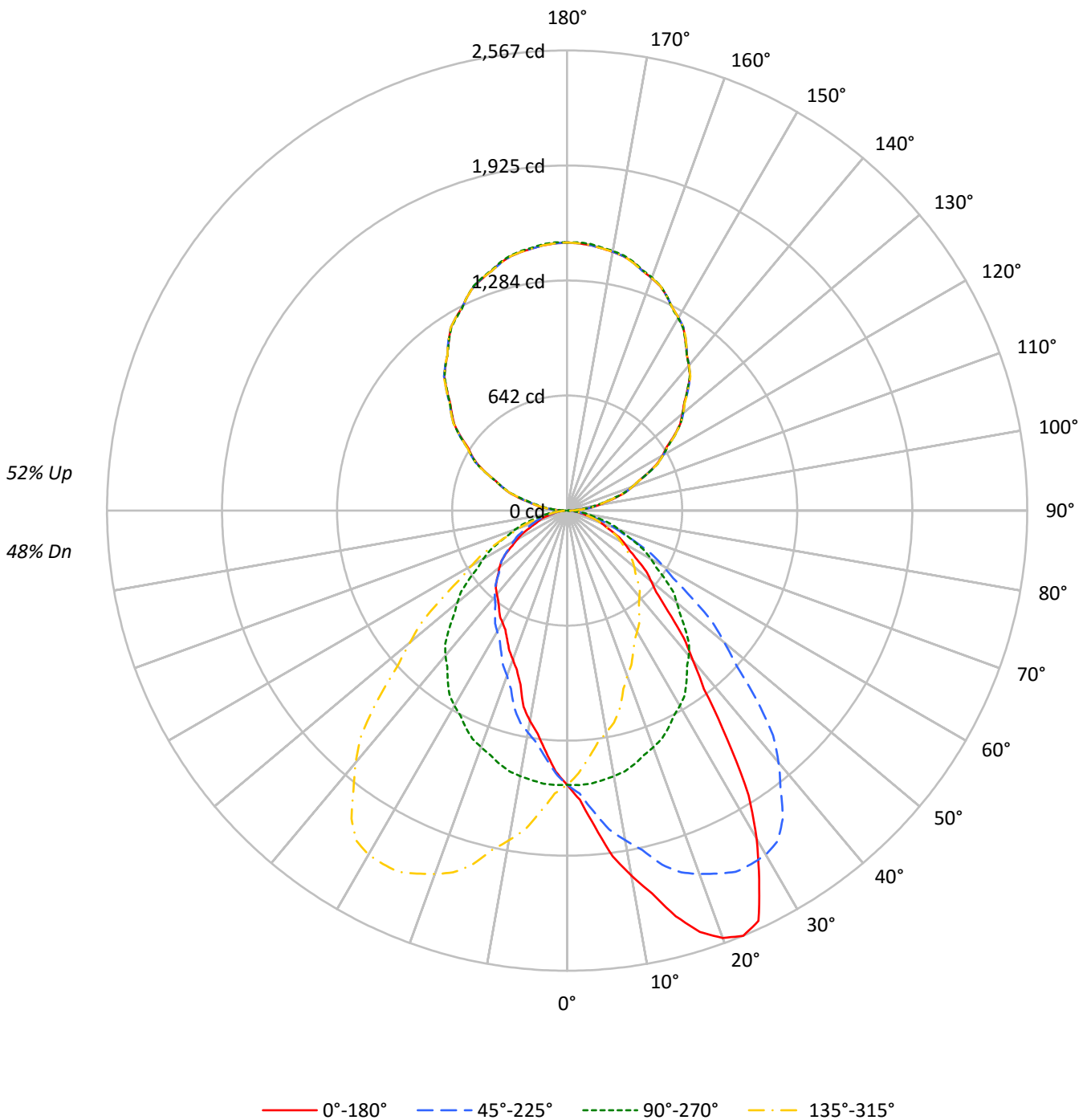
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48				48
1	98	94	90	87	90	86	83	80	73	71	69	60	59	57	49	48	47	42				42
2	89	82	76	71	82	76	71	67	64	61	57	54	51	49	44	42	40	36				36
3	82	73	66	60	75	67	61	56	57	53	49	48	44	42	39	37	35	31				31
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30	27				27
5	69	58	50	44	63	54	47	41	46	40	36	39	35	31	32	29	27	23				23
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	21				21
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18				18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	17				17
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	23	19	17	15				15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14				14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12352	12352	12352	12352
5°	14327	12388	10950	12388
10°	16948	12336	9773	12336
15°	19578	12221	8398	12221
20°	21798	12064	7594	12064
25°	22502	11909	7050	11909
30°	19699	11723	6723	11723
35°	15334	11446	6525	11446
40°	11499	11129	6418	11129
45°	9079	10620	6361	10620
50°	7665	10034	6179	10034
55°	6681	9388	5847	9388
60°	6011	8719	5176	8719
65°	5299	7996	4451	7996
70°	4773	7246	4015	7246
75°	3999	6422	3425	6422
80°	3384	5472	3208	5472
85°	2862	4279	2862	4279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	1.8
10°-20°	447.2	5.6
20°-30°	699.4	8.7
30°-40°	777.5	9.7
40°-50°	689.9	8.6
50°-60°	537.6	6.7
60°-70°	351.9	4.4
70°-80°	173.1	2.2
80°-90°	47.2	0.6
90°-100°	98.6	1.2
100°-110°	292.2	3.6
110°-120°	495.9	6.2
120°-130°	653.9	8.2
130°-140°	734.3	9.2
140°-150°	721.6	9.0
150°-160°	606.9	7.6
160°-170°	403.8	5.0
170°-180°	141.4	1.8
0°-30°	1294.9	16.1
0°-40°	2072.4	25.8
0°-60°	3299.8	41.1
0°-90°	3872.0	48.3
90°-120°	886.7	11.1
90°-150°	2996.4	37.4
90°-180°	4149.0	51.7
0°-180°	8020.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1530	1530	1530	1530	1530	
5°	1768	1529	1351	1529	1768	179
15°	2342	1462	1005	1462	2342	666
25°	2526	1337	792	1337	2526	1121
35°	1556	1161	662	1161	1556	975
45°	795	930	557	930	795	630
55°	475	667	415	667	475	432
65°	277	419	233	419	277	279
75°	128	206	110	206	128	141
85°	31	46	31	46	31	36
90°	35	4	35	4	35	19
95°	91	69	91	69	91	95
105°	282	270	282	270	282	297
115°	500	504	500	504	500	494
125°	728	734	728	734	728	650
135°	948	947	948	947	948	732
145°	1152	1151	1152	1151	1152	721
155°	1317	1318	1317	1318	1317	606
165°	1432	1435	1432	1435	1432	403
175°	1486	1493	1486	1493	1486	141
180°	1495	1495	1495	1495	1495	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1613.8	1618.3	1613.8	1613.4	1608.5	1607.0	1605.0	1598.6	1586.7	1579.8	1581.3
5°	1768.0	1783.3	1774.8	1773.5	1760.0	1746.4	1737.8	1718.1	1697.1	1682.9	1671.2
7.5°	1946.2	1955.1	1949.7	1941.1	1919.1	1906.7	1886.7	1860.6	1823.1	1794.3	1768.1
10°	2067.5	2074.9	2072.5	2056.5	2040.4	2007.8	1989.2	1952.9	1905.4	1867.9	1832.6
12.5°	2186.9	2194.8	2173.1	2173.8	2143.5	2117.7	2088.4	2042.6	1987.8	1939.3	1895.3
15°	2342.5	2332.6	2332.6	2320.3	2286.3	2250.7	2220.4	2172.4	2103.3	2045.3	1984.3
17.5°	2464.3	2467.7	2462.7	2433.6	2407.0	2370.0	2314.6	2258.5	2194.4	2116.7	2054.2
20°	2537.3	2537.3	2531.7	2512.0	2477.5	2438.0	2378.3	2317.2	2235.9	2157.6	2087.3
22.5°	2566.9	2568.8	2562.3	2546.0	2515.0	2476.5	2425.5	2363.6	2279.7	2191.6	2104.5
25°	2526.2	2537.9	2539.1	2534.8	2525.6	2502.1	2458.4	2394.9	2319.7	2224.1	2130.4
27.5°	2319.3	2334.1	2347.1	2368.4	2396.7	2411.5	2413.5	2381.2	2315.6	2223.7	2129.3
30°	2113.2	2125.5	2165.6	2218.0	2258.6	2295.6	2327.7	2336.3	2299.4	2216.7	2117.5
32.5°	1884.4	1901.1	1941.2	1997.5	2065.3	2128.0	2199.9	2236.7	2235.7	2186.1	2094.3
35°	1555.9	1568.3	1605.3	1664.4	1745.8	1838.9	1952.9	2041.7	2102.0	2097.7	2041.7
37.5°	1254.8	1268.7	1306.1	1355.2	1434.1	1549.3	1659.7	1782.0	1893.7	1956.5	1937.7
40°	1091.1	1091.7	1128.1	1178.7	1252.6	1353.1	1473.3	1608.9	1733.4	1835.1	1854.8
42.5°	961.9	962.0	986.1	1040.5	1093.9	1188.4	1303.1	1437.8	1583.5	1701.0	1753.3
45°	795.2	800.8	820.5	853.2	895.1	975.2	1067.0	1192.2	1355.6	1494.9	1581.8
47.5°	673.4	681.5	694.1	720.8	754.1	807.5	883.5	996.0	1128.8	1282.1	1405.8
50°	610.3	611.5	627.5	642.3	671.3	713.8	780.4	874.1	996.1	1143.5	1280.9
52.5°	556.1	555.8	565.4	584.2	607.7	640.9	694.6	779.9	888.1	1020.2	1162.1
55°	474.7	477.8	485.2	499.9	517.8	541.3	583.8	647.9	733.0	845.8	974.6
57.5°	412.8	414.4	420.2	426.4	442.8	459.9	491.8	536.3	608.1	700.4	820.5
60°	372.3	372.9	374.8	384.1	397.0	413.0	434.6	472.2	532.6	617.1	712.0
62.5°	332.9	333.9	336.8	343.6	353.6	364.7	387.3	417.5	467.5	539.7	625.2
65°	277.4	278.0	282.3	284.8	292.8	302.6	319.3	339.7	374.2	434.6	499.4
67.5°	231.8	231.8	232.0	235.3	240.9	247.4	257.4	273.7	299.7	336.8	393.9
70°	202.2	202.2	203.4	205.3	208.4	213.9	219.5	231.8	250.9	281.1	324.9
72.5°	174.6	175.0	176.3	176.6	178.3	182.8	186.9	194.8	209.0	231.8	267.2
75°	128.2	130.1	133.1	135.6	138.7	138.1	142.4	147.3	151.7	165.2	185.6
77.5°	95.4	94.4	94.8	96.9	97.3	97.9	100.9	104.8	108.0	114.4	121.7
80°	72.8	72.8	74.5	75.2	74.5	75.2	78.3	80.2	81.4	83.8	90.6
82.5°	55.0	56.0	55.4	56.0	56.4	57.0	59.6	59.9	61.2	62.2	65.0
85°	30.9	31.5	32.0	30.9	30.9	30.9	32.0	32.6	33.9	33.3	34.5
87.5°	17.7	17.2	17.6	17.5	17.8	17.2	17.4	18.0	16.8	16.9	16.5
90°	34.7	34.2	33.7	33.2	32.6	31.6	30.1	28.5	27.0	25.4	23.4
92.5°	51.4	51.0	50.7	50.4	50.1	49.5	48.6	47.6	46.7	45.8	44.3
95°	91.4	91.4	91.4	91.4	91.4	91.0	90.2	89.4	88.6	87.9	86.1
97.5°	143.2	143.2	143.2	143.2	143.2	142.7	141.8	140.9	139.9	139.0	136.9
100°	179.2	179.2	179.2	179.2	179.2	179.0	178.5	178.0	177.5	176.9	174.6
102.5°	220.0	219.7	219.5	219.4	219.1	218.6	217.9	217.2	216.5	215.8	213.7
105°	282.1	281.4	280.6	279.8	279.1	278.3	277.6	276.8	276.0	275.3	274.2
107.5°	342.8	342.9	342.9	343.0	343.0	342.7	341.9	341.2	340.5	339.7	339.7
110°	386.3	385.5	384.7	384.0	383.2	383.1	383.5	384.1	384.6	385.1	385.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	430.7	430.5	430.3	430.2	430.1	430.0	430.2	430.3	430.3	430.4	430.9
115°	499.6	499.8	500.1	500.3	500.6	500.9	501.1	501.4	501.7	501.9	502.4
117.5°	565.3	565.8	566.3	566.8	567.3	568.0	568.9	569.8	570.6	571.5	571.9
120°	615.2	614.7	614.2	613.7	613.1	613.6	614.8	616.2	617.4	618.7	619.5
122.5°	656.8	657.8	658.7	659.6	660.6	661.5	662.4	663.2	664.1	664.9	665.3
125°	728.5	729.1	729.6	730.1	730.6	731.1	731.6	732.2	732.6	733.2	733.4
127.5°	795.0	795.3	795.8	796.2	796.6	797.0	797.5	798.1	798.6	799.1	799.5
130°	838.4	839.5	840.4	841.5	842.6	843.3	843.8	844.4	844.8	845.3	845.3
132.5°	884.7	885.1	885.5	885.9	886.4	886.8	887.3	887.8	888.3	888.9	889.0
135°	948.2	949.0	949.9	950.6	951.4	952.0	952.5	953.1	953.6	954.0	954.0
137.5°	1015.1	1014.9	1014.9	1014.7	1014.5	1014.8	1015.5	1016.1	1016.7	1017.4	1017.0
140°	1055.9	1056.1	1056.3	1056.6	1056.9	1057.1	1057.4	1057.7	1057.9	1058.1	1058.1
142.5°	1096.5	1096.6	1096.6	1096.7	1096.7	1096.8	1096.9	1096.9	1097.0	1097.0	1097.3
145°	1151.8	1152.6	1153.3	1154.1	1154.9	1155.4	1155.7	1155.9	1156.2	1156.5	1156.2
147.5°	1207.8	1208.1	1208.3	1208.5	1208.8	1209.1	1209.2	1209.4	1209.7	1209.9	1210.1
150°	1242.1	1242.2	1242.5	1242.8	1243.0	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
152.5°	1273.5	1274.2	1274.8	1275.5	1276.1	1276.2	1275.6	1275.0	1274.3	1273.7	1273.5
155°	1317.2	1318.2	1319.3	1320.3	1321.3	1321.3	1320.3	1319.3	1318.2	1317.2	1317.4
157.5°	1356.3	1357.2	1358.0	1358.9	1359.8	1359.9	1359.1	1358.3	1357.5	1356.7	1356.8
160°	1378.5	1379.7	1381.1	1382.3	1383.6	1383.8	1383.1	1382.3	1381.5	1380.8	1381.1
162.5°	1401.6	1402.9	1404.2	1405.4	1406.8	1406.7	1405.3	1403.9	1402.6	1401.1	1401.4
165°	1431.6	1432.7	1433.7	1434.8	1435.8	1435.6	1434.0	1432.4	1430.9	1429.3	1429.9
167.5°	1453.2	1454.8	1456.3	1457.9	1459.6	1459.6	1458.0	1456.5	1455.0	1453.4	1453.4
170°	1465.3	1467.0	1468.8	1470.6	1472.4	1472.6	1471.0	1469.5	1467.9	1466.3	1466.2
172.5°	1475.4	1477.2	1479.0	1480.8	1482.6	1482.6	1480.9	1479.1	1477.4	1475.6	1475.6
175°	1486.0	1487.8	1489.6	1491.4	1493.3	1493.3	1491.4	1489.6	1487.8	1486.0	1486.3
177.5°	1491.6	1493.3	1494.9	1496.6	1498.2	1498.3	1496.8	1495.4	1494.0	1492.5	1492.5
180°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1576.4	1569.5	1566.0	1558.1	1548.7	1543.8	1539.4	1532.9	1524.6	1515.7	1509.3
5°	1656.4	1641.6	1623.1	1600.9	1581.2	1562.1	1545.4	1528.7	1509.7	1490.0	1470.3
7.5°	1738.5	1709.4	1677.9	1641.6	1606.2	1574.0	1544.4	1516.1	1484.0	1455.3	1429.1
10°	1795.7	1756.2	1712.4	1666.3	1620.0	1579.9	1540.5	1504.8	1465.3	1430.1	1400.5
12.5°	1842.1	1795.7	1743.0	1685.5	1629.9	1581.4	1536.1	1489.4	1444.6	1406.5	1367.0
15°	1919.0	1855.5	1784.6	1715.6	1643.4	1577.4	1516.4	1462.2	1411.0	1357.5	1319.8
17.5°	1971.8	1896.6	1810.4	1727.4	1642.2	1564.4	1494.0	1429.4	1370.4	1315.6	1270.9
20°	2003.4	1920.2	1824.7	1730.4	1634.8	1551.6	1475.8	1404.3	1343.3	1284.1	1237.8
22.5°	2021.2	1929.1	1824.7	1725.9	1626.9	1536.8	1453.6	1379.1	1312.7	1253.5	1202.3
25°	2026.9	1928.2	1821.6	1708.2	1599.6	1504.1	1417.8	1337.0	1263.1	1203.9	1149.7
27.5°	2019.0	1902.8	1793.6	1677.2	1565.3	1464.5	1373.9	1289.1	1215.0	1151.6	1095.9
30°	2007.2	1882.6	1765.5	1644.7	1531.2	1434.5	1338.9	1257.6	1180.4	1114.5	1058.5
32.5°	1981.5	1858.0	1732.0	1608.2	1493.3	1393.6	1302.9	1221.0	1145.5	1078.1	1018.5
35°	1930.7	1805.5	1668.7	1541.8	1428.9	1325.3	1240.3	1161.4	1089.2	1017.2	954.2
37.5°	1863.8	1735.9	1599.8	1460.7	1347.8	1250.0	1172.0	1097.9	1027.5	961.6	892.0
40°	1800.6	1684.1	1543.6	1405.5	1289.6	1195.2	1123.2	1056.0	985.1	919.7	850.1
42.5°	1724.2	1625.0	1482.9	1344.3	1229.9	1139.1	1071.8	1006.1	941.6	878.3	805.7
45°	1596.6	1521.3	1388.2	1255.1	1139.8	1049.8	988.2	930.2	873.5	813.1	744.7
47.5°	1450.4	1399.5	1284.5	1148.2	1041.5	960.6	901.0	853.6	805.7	745.3	685.3
50°	1348.8	1316.1	1205.1	1080.7	978.9	904.3	843.3	798.9	758.8	700.9	647.3
52.5°	1240.3	1222.9	1129.2	1010.1	911.9	838.7	786.6	746.6	706.1	658.0	607.8
55°	1075.0	1084.3	1004.8	901.9	809.4	747.8	700.3	667.0	632.5	591.8	552.9
57.5°	906.2	940.0	886.5	796.2	709.5	652.6	616.8	588.8	559.8	526.1	492.9
60°	805.0	833.4	803.3	723.7	647.9	594.9	561.6	540.0	511.0	480.2	455.0
62.5°	706.4	736.7	718.9	654.7	584.2	538.7	509.3	489.2	467.6	440.8	414.5
65°	582.6	602.3	593.6	549.3	499.4	460.5	433.4	418.6	398.9	379.2	355.7
67.5°	446.2	484.3	479.2	455.7	412.5	382.2	364.4	351.3	333.4	318.7	302.8
70°	366.8	401.9	401.3	382.2	358.7	330.4	318.1	307.0	291.0	276.8	263.9
72.5°	300.2	332.4	337.2	322.5	306.5	285.1	273.2	265.6	250.0	240.3	229.8
75°	210.2	233.6	239.8	239.8	232.4	221.3	210.8	205.9	194.8	186.2	180.0
77.5°	137.9	152.7	162.3	164.4	165.6	161.8	153.3	149.8	141.2	138.2	132.3
80°	97.4	107.3	118.3	122.1	125.1	123.9	120.2	117.7	109.8	106.6	104.2
82.5°	67.3	72.8	81.9	90.0	89.2	92.4	89.2	87.2	81.1	80.0	77.6
85°	35.1	35.8	37.0	42.5	45.7	46.8	47.4	46.2	44.4	44.4	40.0
87.5°	16.1	15.2	15.8	15.2	15.2	16.6	17.6	17.5	16.6	15.6	14.7
90°	21.3	19.3	17.2	14.8	11.9	9.1	6.3	3.5	6.3	9.1	11.9
92.5°	42.9	41.5	40.0	37.7	34.4	31.2	28.0	24.8	28.0	31.2	34.4
95°	84.3	82.5	80.7	78.6	76.3	74.0	71.7	69.4	71.7	74.0	76.3
97.5°	134.8	132.7	130.5	128.6	126.7	124.9	123.1	121.2	123.1	124.9	126.7
100°	172.3	170.0	167.6	166.0	165.0	164.0	162.9	161.9	162.9	164.0	165.0
102.5°	211.6	209.5	207.3	206.1	205.7	205.3	204.9	204.5	204.9	205.3	205.7
105°	273.2	272.2	271.1	270.5	270.2	270.0	269.7	269.5	269.7	270.0	270.2
107.5°	339.5	339.3	339.1	338.9	338.6	338.3	338.0	337.7	338.0	338.3	338.6
110°	385.6	385.8	386.1	386.0	385.5	385.0	384.4	384.0	384.4	385.0	385.5



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CATALOG NUMBER: S124RDIW-S1020D1340U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	431.3	431.9	432.3	432.5	432.4	432.2	432.1	432.0	432.1	432.2	432.4
115°	502.9	503.5	504.0	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2
117.5°	572.2	572.6	572.9	573.0	572.8	572.7	572.4	572.2	572.4	572.7	572.8
120°	620.3	621.0	621.8	621.6	620.6	619.6	618.6	617.5	618.6	619.6	620.6
122.5°	665.7	666.0	666.4	666.4	665.9	665.6	665.1	664.7	665.1	665.6	665.9
125°	733.7	734.0	734.2	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3
127.5°	800.0	800.3	800.8	800.6	799.8	799.1	798.3	797.5	798.3	799.1	799.8
130°	845.3	845.3	845.3	845.0	844.2	843.5	842.7	841.9	842.7	843.5	844.2
132.5°	889.2	889.5	889.7	889.5	888.9	888.3	887.8	887.3	887.8	888.3	888.9
135°	954.0	954.0	954.0	953.3	951.7	950.2	948.7	947.1	948.7	950.2	951.7
137.5°	1016.6	1016.2	1015.8	1015.2	1014.5	1013.8	1013.1	1012.4	1013.1	1013.8	1014.5
140°	1058.1	1058.1	1058.1	1057.9	1057.4	1056.9	1056.3	1055.9	1056.3	1056.9	1057.4
142.5°	1097.4	1097.6	1097.8	1097.7	1097.2	1096.6	1096.1	1095.6	1096.1	1096.6	1097.2
145°	1155.9	1155.7	1155.4	1154.8	1153.8	1152.7	1151.7	1150.7	1151.7	1152.7	1153.8
147.5°	1210.3	1210.5	1210.7	1210.1	1209.0	1207.7	1206.5	1205.2	1206.5	1207.7	1209.0
150°	1243.1	1243.1	1243.1	1242.7	1241.6	1240.6	1239.6	1238.6	1239.6	1240.6	1241.6
152.5°	1273.3	1273.1	1272.9	1272.5	1271.8	1271.2	1270.6	1270.0	1270.6	1271.2	1271.8
155°	1317.7	1317.9	1318.2	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3
157.5°	1356.8	1356.9	1356.9	1357.2	1357.6	1358.2	1358.6	1359.1	1358.6	1358.2	1357.6
160°	1381.3	1381.5	1381.8	1382.1	1382.3	1382.6	1382.9	1383.1	1382.9	1382.6	1382.3
162.5°	1401.7	1401.9	1402.2	1402.7	1403.3	1404.0	1404.6	1405.3	1404.6	1404.0	1403.3
165°	1430.4	1430.9	1431.5	1432.1	1432.8	1433.6	1434.4	1435.1	1434.4	1433.6	1432.8
167.5°	1453.3	1453.3	1453.2	1453.8	1454.8	1455.9	1457.0	1458.0	1457.0	1455.9	1454.8
170°	1465.9	1465.6	1465.3	1465.9	1467.1	1468.5	1469.7	1471.0	1469.7	1468.5	1467.1
172.5°	1475.5	1475.5	1475.4	1476.0	1477.0	1478.1	1479.2	1480.2	1479.2	1478.1	1477.0
175°	1486.6	1486.8	1487.0	1487.8	1489.2	1490.4	1491.7	1493.0	1491.7	1490.4	1489.2
177.5°	1492.5	1492.5	1492.5	1493.0	1494.1	1495.0	1496.1	1497.1	1496.1	1495.0	1494.1
180°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3



TEST NUMBER: P333088-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1502.4	1497.4	1491.0	1483.6	1474.8	1466.9	1463.5	1466.4	1467.8	1463.9	1463.5
5°	1456.7	1441.3	1428.9	1410.4	1395.6	1383.3	1374.7	1371.0	1372.2	1362.4	1359.9
7.5°	1405.2	1387.0	1366.8	1344.8	1324.4	1306.3	1296.7	1291.6	1281.1	1276.7	1269.2
10°	1372.2	1347.6	1327.8	1301.9	1278.5	1257.0	1246.4	1237.8	1227.4	1222.4	1211.9
12.5°	1338.2	1309.6	1287.9	1261.0	1237.1	1211.0	1201.0	1185.1	1168.7	1158.3	1144.9
15°	1290.2	1255.7	1229.2	1197.1	1168.8	1139.2	1112.7	1083.1	1072.0	1048.6	1035.0
17.5°	1234.1	1199.1	1166.3	1123.3	1079.5	1042.8	1014.5	986.1	969.2	954.2	947.4
20°	1197.1	1165.1	1119.5	1069.5	1020.8	980.2	957.3	938.9	920.3	909.9	902.5
22.5°	1162.1	1121.1	1068.2	1014.3	965.6	933.8	914.4	895.5	880.4	870.4	860.6
25°	1103.4	1049.8	993.7	932.1	898.8	871.0	850.1	834.6	825.5	812.4	807.5
27.5°	1043.1	978.2	916.3	874.9	840.2	814.8	796.6	785.0	773.3	765.0	758.6
30°	996.8	930.9	875.4	835.9	800.8	779.8	765.0	751.4	742.2	735.4	730.5
32.5°	950.9	884.9	838.4	795.9	768.2	747.8	732.0	721.8	714.6	705.8	702.8
35°	884.6	826.0	785.3	747.2	718.8	700.3	688.0	677.4	671.3	668.9	667.0
37.5°	820.8	772.9	729.2	697.9	672.5	658.0	643.5	638.3	634.1	629.6	631.6
40°	780.4	735.4	696.6	663.3	642.9	627.0	618.3	612.2	608.4	608.4	608.4
42.5°	745.4	701.4	663.5	633.7	613.3	599.8	590.2	585.0	583.8	583.3	586.2
45°	691.1	650.3	612.2	587.5	570.2	556.6	551.1	546.8	546.8	549.3	549.8
47.5°	637.1	599.1	568.4	540.7	525.0	516.5	511.7	509.4	509.7	512.1	515.0
50°	604.1	566.5	536.3	511.7	496.9	488.8	484.6	483.3	484.6	484.6	488.8
52.5°	568.1	534.5	504.7	484.0	467.3	459.8	457.4	455.7	456.4	458.4	460.2
55°	515.3	485.2	456.8	437.0	424.7	419.8	414.3	414.8	413.7	414.8	414.8
57.5°	462.4	435.3	408.9	393.3	382.5	375.3	369.3	371.0	369.2	368.9	367.9
60°	428.5	398.9	377.9	363.7	351.3	345.2	339.7	340.9	339.0	337.8	335.4
62.5°	391.5	366.8	346.8	333.1	323.2	316.1	310.6	309.3	305.1	300.9	295.4
65°	337.8	317.4	299.6	286.7	277.4	271.9	267.5	263.9	254.6	244.7	239.8
67.5°	285.7	271.0	254.3	243.3	235.9	228.5	220.3	214.0	205.4	200.0	196.9
70°	252.1	237.9	223.7	213.3	205.3	198.5	189.2	184.9	178.8	176.3	173.3
72.5°	220.1	206.9	193.7	184.2	175.7	170.4	163.1	158.8	156.0	155.1	152.0
75°	171.4	160.9	151.1	142.4	135.6	131.9	128.9	125.7	124.5	119.0	115.9
77.5°	125.0	118.2	111.9	105.8	100.9	98.5	92.6	89.0	86.9	84.4	83.7
80°	97.4	92.5	86.3	82.6	75.8	73.4	70.9	70.3	69.6	69.0	68.4
82.5°	73.2	68.3	62.2	59.9	58.1	56.6	55.1	54.5	53.9	54.2	54.1
85°	37.0	34.5	34.5	33.9	33.3	32.6	32.0	32.0	31.5	32.0	31.5
87.5°	15.2	15.2	15.7	15.2	16.1	16.4	16.2	16.6	17.4	16.7	16.9
90°	14.8	17.2	19.3	21.3	23.4	25.4	27.0	28.5	30.1	31.6	32.6
92.5°	37.7	40.0	41.5	42.9	44.3	45.8	46.7	47.6	48.6	49.5	50.1
95°	78.6	80.7	82.5	84.3	86.1	87.9	88.6	89.4	90.2	91.0	91.4
97.5°	128.6	130.5	132.7	134.8	136.9	139.0	139.9	140.9	141.8	142.7	143.2
100°	166.0	167.6	170.0	172.3	174.6	176.9	177.5	178.0	178.5	179.0	179.2
102.5°	206.1	207.3	209.5	211.6	213.7	215.8	216.5	217.2	217.9	218.6	219.1
105°	270.5	271.1	272.2	273.2	274.2	275.3	276.0	276.8	277.6	278.3	279.1
107.5°	338.9	339.1	339.3	339.5	339.7	339.7	340.5	341.2	341.9	342.7	343.0
110°	386.0	386.1	385.8	385.6	385.4	385.1	384.6	384.1	383.5	383.1	383.2



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CATALOG NUMBER: S124RDIW-S1020D1340U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	432.5	432.3	431.9	431.3	430.9	430.4	430.3	430.3	430.2	430.0	430.1
115°	504.2	504.0	503.5	502.9	502.4	501.9	501.7	501.4	501.1	500.9	500.6
117.5°	573.0	572.9	572.6	572.2	571.9	571.5	570.6	569.8	568.9	568.0	567.3
120°	621.6	621.8	621.0	620.3	619.5	618.7	617.4	616.2	614.8	613.6	613.1
122.5°	666.4	666.4	666.0	665.7	665.3	664.9	664.1	663.2	662.4	661.5	660.6
125°	734.3	734.2	734.0	733.7	733.4	733.2	732.6	732.2	731.6	731.1	730.6
127.5°	800.6	800.8	800.3	800.0	799.5	799.1	798.6	798.1	797.5	797.0	796.6
130°	845.0	845.3	845.3	845.3	845.3	845.3	844.8	844.4	843.8	843.3	842.6
132.5°	889.5	889.7	889.5	889.2	889.0	888.9	888.3	887.8	887.3	886.8	886.4
135°	953.3	954.0	954.0	954.0	954.0	954.0	953.6	953.1	952.5	952.0	951.4
137.5°	1015.2	1015.8	1016.2	1016.6	1017.0	1017.4	1016.7	1016.1	1015.5	1014.8	1014.5
140°	1057.9	1058.1	1058.1	1058.1	1058.1	1058.1	1057.9	1057.7	1057.4	1057.1	1056.9
142.5°	1097.7	1097.8	1097.6	1097.4	1097.3	1097.0	1097.0	1096.9	1096.9	1096.8	1096.7
145°	1154.8	1155.4	1155.7	1155.9	1156.2	1156.5	1156.2	1155.9	1155.7	1155.4	1154.9
147.5°	1210.1	1210.7	1210.5	1210.3	1210.1	1209.9	1209.7	1209.4	1209.2	1209.1	1208.8
150°	1242.7	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.0
152.5°	1272.5	1272.9	1273.1	1273.3	1273.5	1273.7	1274.3	1275.0	1275.6	1276.2	1276.1
155°	1318.3	1318.2	1317.9	1317.7	1317.4	1317.2	1318.2	1319.3	1320.3	1321.3	1321.3
157.5°	1357.2	1356.9	1356.9	1356.8	1356.8	1356.7	1357.5	1358.3	1359.1	1359.9	1359.8
160°	1382.1	1381.8	1381.5	1381.3	1381.1	1380.8	1381.5	1382.3	1383.1	1383.8	1383.6
162.5°	1402.7	1402.2	1401.9	1401.7	1401.4	1401.1	1402.6	1403.9	1405.3	1406.7	1406.8
165°	1432.1	1431.5	1430.9	1430.4	1429.9	1429.3	1430.9	1432.4	1434.0	1435.6	1435.8
167.5°	1453.8	1453.2	1453.3	1453.3	1453.4	1453.4	1455.0	1456.5	1458.0	1459.6	1459.6
170°	1465.9	1465.3	1465.6	1465.9	1466.2	1466.3	1467.9	1469.5	1471.0	1472.6	1472.4
172.5°	1476.0	1475.4	1475.5	1475.5	1475.6	1475.6	1477.4	1479.1	1480.9	1482.6	1482.6
175°	1487.8	1487.0	1486.8	1486.6	1486.3	1486.0	1487.8	1489.6	1491.4	1493.3	1493.3
177.5°	1493.0	1492.5	1492.5	1492.5	1492.5	1492.5	1494.0	1495.4	1496.8	1498.3	1498.2
180°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3



TEST NUMBER: P333088-940

CATALOG NUMBER: S124RDIW-S1020D1340U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1460.4	1461.4	1458.0	1457.1	1458.0	1461.4	1460.4	1463.5	1463.9	1467.8	1466.4
5°	1355.0	1353.7	1350.6	1351.2	1350.6	1353.7	1355.0	1359.9	1362.4	1372.2	1371.0
7.5°	1264.7	1259.9	1261.2	1256.3	1261.2	1259.9	1264.7	1269.2	1276.7	1281.1	1291.6
10°	1209.4	1202.7	1197.1	1192.2	1197.1	1202.7	1209.4	1211.9	1222.4	1227.4	1237.8
12.5°	1134.0	1128.2	1120.7	1122.2	1120.7	1128.2	1134.0	1144.9	1158.3	1168.7	1185.1
15°	1027.0	1017.7	1003.0	1004.8	1003.0	1017.7	1027.0	1035.0	1048.6	1072.0	1083.1
17.5°	936.4	936.5	929.7	931.3	929.7	936.5	936.4	947.4	954.2	969.2	986.1
20°	889.6	885.2	885.8	884.0	885.8	885.2	889.6	902.5	909.9	920.3	938.9
22.5°	857.0	851.7	847.4	843.6	847.4	851.7	857.0	860.6	870.4	880.4	895.5
25°	802.0	798.3	792.7	791.5	792.7	798.3	802.0	807.5	812.4	825.5	834.6
27.5°	753.7	753.0	750.7	747.9	750.7	753.0	753.7	758.6	765.0	773.3	785.0
30°	725.6	724.3	723.1	721.2	723.1	724.3	725.6	730.5	735.4	742.2	751.4
32.5°	700.4	699.6	698.4	698.6	698.4	699.6	700.4	702.8	705.8	714.6	721.8
35°	664.5	663.9	662.7	662.1	662.7	663.9	664.5	667.0	668.9	671.3	677.4
37.5°	631.0	632.6	631.9	631.7	631.9	632.6	631.0	631.6	629.6	634.1	638.3
40°	607.8	608.4	609.7	609.0	609.7	608.4	607.8	608.4	608.4	608.4	612.2
42.5°	588.6	588.7	590.4	588.4	590.4	588.7	588.6	586.2	583.3	583.8	585.0
45°	554.2	557.9	557.2	557.2	557.2	557.9	554.2	549.8	549.3	546.8	546.8
47.5°	516.6	519.8	520.7	520.5	520.7	519.8	516.6	515.0	512.1	509.7	509.4
50°	492.0	490.7	492.6	492.0	492.6	490.7	492.0	488.8	484.6	484.6	483.3
52.5°	461.8	462.1	462.0	461.4	462.0	462.1	461.8	460.2	458.4	456.4	455.7
55°	415.4	416.1	414.8	415.4	414.8	416.1	415.4	414.8	414.8	413.7	414.8
57.5°	365.2	362.2	363.5	361.9	363.5	362.2	365.2	367.9	368.9	369.2	371.0
60°	329.2	324.2	323.0	320.6	323.0	324.2	329.2	335.4	337.8	339.0	340.9
62.5°	288.7	285.3	281.1	283.0	281.1	285.3	288.7	295.4	300.9	305.1	309.3
65°	234.9	232.4	230.5	233.0	230.5	232.4	234.9	239.8	244.7	254.6	263.9
67.5°	194.4	193.1	193.1	191.8	193.1	193.1	194.4	196.9	200.0	205.4	214.0
70°	173.3	171.4	171.4	170.1	171.4	171.4	173.3	173.3	176.3	178.8	184.9
72.5°	151.5	149.6	150.2	149.5	150.2	149.6	151.5	152.0	155.1	156.0	158.8
75°	112.2	109.1	109.1	109.8	109.1	109.1	112.2	115.9	119.0	124.5	125.7
77.5°	83.7	83.1	84.0	82.8	84.0	83.1	83.7	83.7	84.4	86.9	89.0
80°	68.4	67.8	67.2	69.0	67.2	67.8	68.4	68.4	69.0	69.6	70.3
82.5°	53.1	53.1	52.9	55.2	52.9	53.1	53.1	54.1	54.2	53.9	54.5
85°	32.0	30.9	32.0	30.9	32.0	30.9	32.0	31.5	32.0	31.5	32.0
87.5°	18.0	17.6	17.2	17.7	17.2	17.6	18.0	16.9	16.7	17.4	16.6
90°	33.2	33.7	34.2	34.7	34.2	33.7	33.2	32.6	31.6	30.1	28.5
92.5°	50.4	50.7	51.0	51.4	51.0	50.7	50.4	50.1	49.5	48.6	47.6
95°	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.0	90.2	89.4
97.5°	143.2	143.2	143.2	143.2	143.2	143.2	143.2	143.2	142.7	141.8	140.9
100°	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.2	179.0	178.5	178.0
102.5°	219.4	219.5	219.7	220.0	219.7	219.5	219.4	219.1	218.6	217.9	217.2
105°	279.8	280.6	281.4	282.1	281.4	280.6	279.8	279.1	278.3	277.6	276.8
107.5°	343.0	342.9	342.9	342.8	342.9	342.9	343.0	343.0	342.7	341.9	341.2
110°	384.0	384.7	385.5	386.3	385.5	384.7	384.0	383.2	383.1	383.5	384.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	430.2	430.3	430.5	430.7	430.5	430.3	430.2	430.1	430.0	430.2	430.3
115°	500.3	500.1	499.8	499.6	499.8	500.1	500.3	500.6	500.9	501.1	501.4
117.5°	566.8	566.3	565.8	565.3	565.8	566.3	566.8	567.3	568.0	568.9	569.8
120°	613.7	614.2	614.7	615.2	614.7	614.2	613.7	613.1	613.6	614.8	616.2
122.5°	659.6	658.7	657.8	656.8	657.8	658.7	659.6	660.6	661.5	662.4	663.2
125°	730.1	729.6	729.1	728.5	729.1	729.6	730.1	730.6	731.1	731.6	732.2
127.5°	796.2	795.8	795.3	795.0	795.3	795.8	796.2	796.6	797.0	797.5	798.1
130°	841.5	840.4	839.5	838.4	839.5	840.4	841.5	842.6	843.3	843.8	844.4
132.5°	885.9	885.5	885.1	884.7	885.1	885.5	885.9	886.4	886.8	887.3	887.8
135°	950.6	949.9	949.0	948.2	949.0	949.9	950.6	951.4	952.0	952.5	953.1
137.5°	1014.7	1014.9	1014.9	1015.1	1014.9	1014.9	1014.7	1014.5	1014.8	1015.5	1016.1
140°	1056.6	1056.3	1056.1	1055.9	1056.1	1056.3	1056.6	1056.9	1057.1	1057.4	1057.7
142.5°	1096.7	1096.6	1096.6	1096.5	1096.6	1096.6	1096.7	1096.7	1096.8	1096.9	1096.9
145°	1154.1	1153.3	1152.6	1151.8	1152.6	1153.3	1154.1	1154.9	1155.4	1155.7	1155.9
147.5°	1208.5	1208.3	1208.1	1207.8	1208.1	1208.3	1208.5	1208.8	1209.1	1209.2	1209.4
150°	1242.8	1242.5	1242.2	1242.1	1242.2	1242.5	1242.8	1243.0	1243.1	1243.1	1243.1
152.5°	1275.5	1274.8	1274.2	1273.5	1274.2	1274.8	1275.5	1276.1	1276.2	1275.6	1275.0
155°	1320.3	1319.3	1318.2	1317.2	1318.2	1319.3	1320.3	1321.3	1321.3	1320.3	1319.3
157.5°	1358.9	1358.0	1357.2	1356.3	1357.2	1358.0	1358.9	1359.8	1359.9	1359.1	1358.3
160°	1382.3	1381.1	1379.7	1378.5	1379.7	1381.1	1382.3	1383.6	1383.8	1383.1	1382.3
162.5°	1405.4	1404.2	1402.9	1401.6	1402.9	1404.2	1405.4	1406.8	1406.7	1405.3	1403.9
165°	1434.8	1433.7	1432.7	1431.6	1432.7	1433.7	1434.8	1435.8	1435.6	1434.0	1432.4
167.5°	1457.9	1456.3	1454.8	1453.2	1454.8	1456.3	1457.9	1459.6	1459.6	1458.0	1456.5
170°	1470.6	1468.8	1467.0	1465.3	1467.0	1468.8	1470.6	1472.4	1472.6	1471.0	1469.5
172.5°	1480.8	1479.0	1477.2	1475.4	1477.2	1479.0	1480.8	1482.6	1482.6	1480.9	1479.1
175°	1491.4	1489.6	1487.8	1486.0	1487.8	1489.6	1491.4	1493.3	1493.3	1491.4	1489.6
177.5°	1496.6	1494.9	1493.3	1491.6	1493.3	1494.9	1496.6	1498.2	1498.3	1496.8	1495.4
180°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1463.5	1466.9	1474.8	1483.6	1491.0	1497.4	1502.4	1509.3	1515.7	1524.6	1532.9
5°	1374.7	1383.3	1395.6	1410.4	1428.9	1441.3	1456.7	1470.3	1490.0	1509.7	1528.7
7.5°	1296.7	1306.3	1324.4	1344.8	1366.8	1387.0	1405.2	1429.1	1455.3	1484.0	1516.1
10°	1246.4	1257.0	1278.5	1301.9	1327.8	1347.6	1372.2	1400.5	1430.1	1465.3	1504.8
12.5°	1201.0	1211.0	1237.1	1261.0	1287.9	1309.6	1338.2	1367.0	1406.5	1444.6	1489.4
15°	1112.7	1139.2	1168.8	1197.1	1229.2	1255.7	1290.2	1319.8	1357.5	1411.0	1462.2
17.5°	1014.5	1042.8	1079.5	1123.3	1166.3	1199.1	1234.1	1270.9	1315.6	1370.4	1429.4
20°	957.3	980.2	1020.8	1069.5	1119.5	1165.1	1197.1	1237.8	1284.1	1343.3	1404.3
22.5°	914.4	933.8	965.6	1014.3	1068.2	1121.1	1162.1	1202.3	1253.5	1312.7	1379.1
25°	850.1	871.0	898.8	932.1	993.7	1049.8	1103.4	1149.7	1203.9	1263.1	1337.0
27.5°	796.6	814.8	840.2	874.9	916.3	978.2	1043.1	1095.9	1151.6	1215.0	1289.1
30°	765.0	779.8	800.8	835.9	875.4	930.9	996.8	1058.5	1114.5	1180.4	1257.6
32.5°	732.0	747.8	768.2	795.9	838.4	884.9	950.9	1018.5	1078.1	1145.5	1221.0
35°	688.0	700.3	718.8	747.2	785.3	826.0	884.6	954.2	1017.2	1089.2	1161.4
37.5°	643.5	658.0	672.5	697.9	729.2	772.9	820.8	892.0	961.6	1027.5	1097.9
40°	618.3	627.0	642.9	663.3	696.6	735.4	780.4	850.1	919.7	985.1	1056.0
42.5°	590.2	599.8	613.3	633.7	663.5	701.4	745.4	805.7	878.3	941.6	1006.1
45°	551.1	556.6	570.2	587.5	612.2	650.3	691.1	744.7	813.1	873.5	930.2
47.5°	511.7	516.5	525.0	540.7	568.4	599.1	637.1	685.3	745.3	805.7	853.6
50°	484.6	488.8	496.9	511.7	536.3	566.5	604.1	647.3	700.9	758.8	798.9
52.5°	457.4	459.8	467.3	484.0	504.7	534.5	568.1	607.8	658.0	706.1	746.6
55°	414.3	419.8	424.7	437.0	456.8	485.2	515.3	552.9	591.8	632.5	667.0
57.5°	369.3	375.3	382.5	393.3	408.9	435.3	462.4	492.9	526.1	559.8	588.8
60°	339.7	345.2	351.3	363.7	377.9	398.9	428.5	455.0	480.2	511.0	540.0
62.5°	310.6	316.1	323.2	333.1	346.8	366.8	391.5	414.5	440.8	467.6	489.2
65°	267.5	271.9	277.4	286.7	299.6	317.4	337.8	355.7	379.2	398.9	418.6
67.5°	220.3	228.5	235.9	243.3	254.3	271.0	285.7	302.8	318.7	333.4	351.3
70°	189.2	198.5	205.3	213.3	223.7	237.9	252.1	263.9	276.8	291.0	307.0
72.5°	163.1	170.4	175.7	184.2	193.7	206.9	220.1	229.8	240.3	250.0	265.6
75°	128.9	131.9	135.6	142.4	151.1	160.9	171.4	180.0	186.2	194.8	205.9
77.5°	92.6	98.5	100.9	105.8	111.9	118.2	125.0	132.3	138.2	141.2	149.8
80°	70.9	73.4	75.8	82.6	86.3	92.5	97.4	104.2	106.6	109.8	117.7
82.5°	55.1	56.6	58.1	59.9	62.2	68.3	73.2	77.6	80.0	81.1	87.2
85°	32.0	32.6	33.3	33.9	34.5	34.5	37.0	40.0	44.4	44.4	46.2
87.5°	16.2	16.4	16.1	15.2	15.7	15.2	15.2	14.7	15.6	16.6	17.5
90°	27.0	25.4	23.4	21.3	19.3	17.2	14.8	11.9	9.1	6.3	3.5
92.5°	46.7	45.8	44.3	42.9	41.5	40.0	37.7	34.4	31.2	28.0	24.8
95°	88.6	87.9	86.1	84.3	82.5	80.7	78.6	76.3	74.0	71.7	69.4
97.5°	139.9	139.0	136.9	134.8	132.7	130.5	128.6	126.7	124.9	123.1	121.2
100°	177.5	176.9	174.6	172.3	170.0	167.6	166.0	165.0	164.0	162.9	161.9
102.5°	216.5	215.8	213.7	211.6	209.5	207.3	206.1	205.7	205.3	204.9	204.5
105°	276.0	275.3	274.2	273.2	272.2	271.1	270.5	270.2	270.0	269.7	269.5
107.5°	340.5	339.7	339.7	339.5	339.3	339.1	338.9	338.6	338.3	338.0	337.7
110°	384.6	385.1	385.4	385.6	385.8	386.1	386.0	385.5	385.0	384.4	384.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	430.3	430.4	430.9	431.3	431.9	432.3	432.5	432.4	432.2	432.1	432.0
115°	501.7	501.9	502.4	502.9	503.5	504.0	504.2	504.2	504.2	504.2	504.2
117.5°	570.6	571.5	571.9	572.2	572.6	572.9	573.0	572.8	572.7	572.4	572.2
120°	617.4	618.7	619.5	620.3	621.0	621.8	621.6	620.6	619.6	618.6	617.5
122.5°	664.1	664.9	665.3	665.7	666.0	666.4	666.4	665.9	665.6	665.1	664.7
125°	732.6	733.2	733.4	733.7	734.0	734.2	734.3	734.3	734.3	734.3	734.3
127.5°	798.6	799.1	799.5	800.0	800.3	800.8	800.6	799.8	799.1	798.3	797.5
130°	844.8	845.3	845.3	845.3	845.3	845.3	845.0	844.2	843.5	842.7	841.9
132.5°	888.3	888.9	889.0	889.2	889.5	889.7	889.5	888.9	888.3	887.8	887.3
135°	953.6	954.0	954.0	954.0	954.0	954.0	953.3	951.7	950.2	948.7	947.1
137.5°	1016.7	1017.4	1017.0	1016.6	1016.2	1015.8	1015.2	1014.5	1013.8	1013.1	1012.4
140°	1057.9	1058.1	1058.1	1058.1	1058.1	1058.1	1057.9	1057.4	1056.9	1056.3	1055.9
142.5°	1097.0	1097.0	1097.3	1097.4	1097.6	1097.8	1097.7	1097.2	1096.6	1096.1	1095.6
145°	1156.2	1156.5	1156.2	1155.9	1155.7	1155.4	1154.8	1153.8	1152.7	1151.7	1150.7
147.5°	1209.7	1209.9	1210.1	1210.3	1210.5	1210.7	1210.1	1209.0	1207.7	1206.5	1205.2
150°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1242.7	1241.6	1240.6	1239.6	1238.6
152.5°	1274.3	1273.7	1273.5	1273.3	1273.1	1272.9	1272.5	1271.8	1271.2	1270.6	1270.0
155°	1318.2	1317.2	1317.4	1317.7	1317.9	1318.2	1318.3	1318.3	1318.3	1318.3	1318.3
157.5°	1357.5	1356.7	1356.8	1356.8	1356.9	1356.9	1357.2	1357.6	1358.2	1358.6	1359.1
160°	1381.5	1380.8	1381.1	1381.3	1381.5	1381.8	1382.1	1382.3	1382.6	1382.9	1383.1
162.5°	1402.6	1401.1	1401.4	1401.7	1401.9	1402.2	1402.7	1403.3	1404.0	1404.6	1405.3
165°	1430.9	1429.3	1429.9	1430.4	1430.9	1431.5	1432.1	1432.8	1433.6	1434.4	1435.1
167.5°	1455.0	1453.4	1453.4	1453.3	1453.3	1453.2	1453.8	1454.8	1455.9	1457.0	1458.0
170°	1467.9	1466.3	1466.2	1465.9	1465.6	1465.3	1465.9	1467.1	1468.5	1469.7	1471.0
172.5°	1477.4	1475.6	1475.6	1475.5	1475.5	1475.4	1476.0	1477.0	1478.1	1479.2	1480.2
175°	1487.8	1486.0	1486.3	1486.6	1486.8	1487.0	1487.8	1489.2	1490.4	1491.7	1493.0
177.5°	1494.0	1492.5	1492.5	1492.5	1492.5	1492.5	1493.0	1494.1	1495.0	1496.1	1497.1
180°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1539.4	1543.8	1548.7	1558.1	1566.0	1569.5	1576.4	1581.3	1579.8	1586.7	1598.6
5°	1545.4	1562.1	1581.2	1600.9	1623.1	1641.6	1656.4	1671.2	1682.9	1697.1	1718.1
7.5°	1544.4	1574.0	1606.2	1641.6	1677.9	1709.4	1738.5	1768.1	1794.3	1823.1	1860.6
10°	1540.5	1579.9	1620.0	1666.3	1712.4	1756.2	1795.7	1832.6	1867.9	1905.4	1952.9
12.5°	1536.1	1581.4	1629.9	1685.5	1743.0	1795.7	1842.1	1895.3	1939.3	1987.8	2042.6
15°	1516.4	1577.4	1643.4	1715.6	1784.6	1855.5	1919.0	1984.3	2045.3	2103.3	2172.4
17.5°	1494.0	1564.4	1642.2	1727.4	1810.4	1896.6	1971.8	2054.2	2116.7	2194.4	2258.5
20°	1475.8	1551.6	1634.8	1730.4	1824.7	1920.2	2003.4	2087.3	2157.6	2235.9	2317.2
22.5°	1453.6	1536.8	1626.9	1725.9	1824.7	1929.1	2021.2	2104.5	2191.6	2279.7	2363.6
25°	1417.8	1504.1	1599.6	1708.2	1821.6	1928.2	2026.9	2130.4	2224.1	2319.7	2394.9
27.5°	1373.9	1464.5	1565.3	1677.2	1793.6	1902.8	2019.0	2129.3	2223.7	2315.6	2381.2
30°	1338.9	1434.5	1531.2	1644.7	1765.5	1882.6	2007.2	2117.5	2216.7	2299.4	2336.3
32.5°	1302.9	1393.6	1493.3	1608.2	1732.0	1858.0	1981.5	2094.3	2186.1	2235.7	2236.7
35°	1240.3	1325.3	1428.9	1541.8	1668.7	1805.5	1930.7	2041.7	2097.7	2102.0	2041.7
37.5°	1172.0	1250.0	1347.8	1460.7	1599.8	1735.9	1863.8	1937.7	1956.5	1893.7	1782.0
40°	1123.2	1195.2	1289.6	1405.5	1543.6	1684.1	1800.6	1854.8	1835.1	1733.4	1608.9
42.5°	1071.8	1139.1	1229.9	1344.3	1482.9	1625.0	1724.2	1753.3	1701.0	1583.5	1437.8
45°	988.2	1049.8	1139.8	1255.1	1388.2	1521.3	1596.6	1581.8	1494.9	1355.6	1192.2
47.5°	901.0	960.6	1041.5	1148.2	1284.5	1399.5	1450.4	1405.8	1282.1	1128.8	996.0
50°	843.3	904.3	978.9	1080.7	1205.1	1316.1	1348.8	1280.9	1143.5	996.1	874.1
52.5°	786.6	838.7	911.9	1010.1	1129.2	1222.9	1240.3	1162.1	1020.2	888.1	779.9
55°	700.3	747.8	809.4	901.9	1004.8	1084.3	1075.0	974.6	845.8	733.0	647.9
57.5°	616.8	652.6	709.5	796.2	886.5	940.0	906.2	820.5	700.4	608.1	536.3
60°	561.6	594.9	647.9	723.7	803.3	833.4	805.0	712.0	617.1	532.6	472.2
62.5°	509.3	538.7	584.2	654.7	718.9	736.7	706.4	625.2	539.7	467.5	417.5
65°	433.4	460.5	499.4	549.3	593.6	602.3	582.6	499.4	434.6	374.2	339.7
67.5°	364.4	382.2	412.5	455.7	479.2	484.3	446.2	393.9	336.8	299.7	273.7
70°	318.1	330.4	358.7	382.2	401.3	401.9	366.8	324.9	281.1	250.9	231.8
72.5°	273.2	285.1	306.5	322.5	337.2	332.4	300.2	267.2	231.8	209.0	194.8
75°	210.8	221.3	232.4	239.8	239.8	233.6	210.2	185.6	165.2	151.7	147.3
77.5°	153.3	161.8	165.6	164.4	162.3	152.7	137.9	121.7	114.4	108.0	104.8
80°	120.2	123.9	125.1	122.1	118.3	107.3	97.4	90.6	83.8	81.4	80.2
82.5°	89.2	92.4	89.2	90.0	81.9	72.8	67.3	65.0	62.2	61.2	59.9
85°	47.4	46.8	45.7	42.5	37.0	35.8	35.1	34.5	33.3	33.9	32.6
87.5°	17.6	16.6	15.2	15.2	15.8	15.2	16.1	16.5	16.9	16.8	18.0
90°	6.3	9.1	11.9	14.8	17.2	19.3	21.3	23.4	25.4	27.0	28.5
92.5°	28.0	31.2	34.4	37.7	40.0	41.5	42.9	44.3	45.8	46.7	47.6
95°	71.7	74.0	76.3	78.6	80.7	82.5	84.3	86.1	87.9	88.6	89.4
97.5°	123.1	124.9	126.7	128.6	130.5	132.7	134.8	136.9	139.0	139.9	140.9
100°	162.9	164.0	165.0	166.0	167.6	170.0	172.3	174.6	176.9	177.5	178.0
102.5°	204.9	205.3	205.7	206.1	207.3	209.5	211.6	213.7	215.8	216.5	217.2
105°	269.7	270.0	270.2	270.5	271.1	272.2	273.2	274.2	275.3	276.0	276.8
107.5°	338.0	338.3	338.6	338.9	339.1	339.3	339.5	339.7	339.7	340.5	341.2
110°	384.4	385.0	385.5	386.0	386.1	385.8	385.6	385.4	385.1	384.6	384.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	432.1	432.2	432.4	432.5	432.3	431.9	431.3	430.9	430.4	430.3	430.3
115°	504.2	504.2	504.2	504.2	504.0	503.5	502.9	502.4	501.9	501.7	501.4
117.5°	572.4	572.7	572.8	573.0	572.9	572.6	572.2	571.9	571.5	570.6	569.8
120°	618.6	619.6	620.6	621.6	621.8	621.0	620.3	619.5	618.7	617.4	616.2
122.5°	665.1	665.6	665.9	666.4	666.4	666.0	665.7	665.3	664.9	664.1	663.2
125°	734.3	734.3	734.3	734.3	734.2	734.0	733.7	733.4	733.2	732.6	732.2
127.5°	798.3	799.1	799.8	800.6	800.8	800.3	800.0	799.5	799.1	798.6	798.1
130°	842.7	843.5	844.2	845.0	845.3	845.3	845.3	845.3	845.3	844.8	844.4
132.5°	887.8	888.3	888.9	889.5	889.7	889.5	889.2	889.0	888.9	888.3	887.8
135°	948.7	950.2	951.7	953.3	954.0	954.0	954.0	954.0	954.0	953.6	953.1
137.5°	1013.1	1013.8	1014.5	1015.2	1015.8	1016.2	1016.6	1017.0	1017.4	1016.7	1016.1
140°	1056.3	1056.9	1057.4	1057.9	1058.1	1058.1	1058.1	1058.1	1058.1	1057.9	1057.7
142.5°	1096.1	1096.6	1097.2	1097.7	1097.8	1097.6	1097.4	1097.3	1097.0	1097.0	1096.9
145°	1151.7	1152.7	1153.8	1154.8	1155.4	1155.7	1155.9	1156.2	1156.5	1156.2	1155.9
147.5°	1206.5	1207.7	1209.0	1210.1	1210.7	1210.5	1210.3	1210.1	1209.9	1209.7	1209.4
150°	1239.6	1240.6	1241.6	1242.7	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
152.5°	1270.6	1271.2	1271.8	1272.5	1272.9	1273.1	1273.3	1273.5	1273.7	1274.3	1275.0
155°	1318.3	1318.3	1318.3	1318.3	1318.2	1317.9	1317.7	1317.4	1317.2	1318.2	1319.3
157.5°	1358.6	1358.2	1357.6	1357.2	1356.9	1356.9	1356.8	1356.8	1356.7	1357.5	1358.3
160°	1382.9	1382.6	1382.3	1382.1	1381.8	1381.5	1381.3	1381.1	1380.8	1381.5	1382.3
162.5°	1404.6	1404.0	1403.3	1402.7	1402.2	1401.9	1401.7	1401.4	1401.1	1402.6	1403.9
165°	1434.4	1433.6	1432.8	1432.1	1431.5	1430.9	1430.4	1429.9	1429.3	1430.9	1432.4
167.5°	1457.0	1455.9	1454.8	1453.8	1453.2	1453.3	1453.3	1453.4	1453.4	1455.0	1456.5
170°	1469.7	1468.5	1467.1	1465.9	1465.3	1465.6	1465.9	1466.2	1466.3	1467.9	1469.5
172.5°	1479.2	1478.1	1477.0	1476.0	1475.4	1475.5	1475.5	1475.6	1475.6	1477.4	1479.1
175°	1491.7	1490.4	1489.2	1487.8	1487.0	1486.8	1486.6	1486.3	1486.0	1487.8	1489.6
177.5°	1496.1	1495.0	1494.1	1493.0	1492.5	1492.5	1492.5	1492.5	1492.5	1494.0	1495.4
180°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1605.0	1607.0	1608.5	1613.4	1613.8	1618.3	1613.8
5°	1737.8	1746.4	1760.0	1773.5	1774.8	1783.3	1768.0
7.5°	1886.7	1906.7	1919.1	1941.1	1949.7	1955.1	1946.2
10°	1989.2	2007.8	2040.4	2056.5	2072.5	2074.9	2067.5
12.5°	2088.4	2117.7	2143.5	2173.8	2173.1	2194.8	2186.9
15°	2220.4	2250.7	2286.3	2320.3	2332.6	2332.6	2342.5
17.5°	2314.6	2370.0	2407.0	2433.6	2462.7	2467.7	2464.3
20°	2378.3	2438.0	2477.5	2512.0	2531.7	2537.3	2537.3
22.5°	2425.5	2476.5	2515.0	2546.0	2562.3	2568.8	2566.9
25°	2458.4	2502.1	2525.6	2534.8	2539.1	2537.9	2526.2
27.5°	2413.5	2411.5	2396.7	2368.4	2347.1	2334.1	2319.3
30°	2327.7	2295.6	2258.6	2218.0	2165.6	2125.5	2113.2
32.5°	2199.9	2128.0	2065.3	1997.5	1941.2	1901.1	1884.4
35°	1952.9	1838.9	1745.8	1664.4	1605.3	1568.3	1555.9
37.5°	1659.7	1549.3	1434.1	1355.2	1306.1	1268.7	1254.8
40°	1473.3	1353.1	1252.6	1178.7	1128.1	1091.7	1091.1
42.5°	1303.1	1188.4	1093.9	1040.5	986.1	962.0	961.9
45°	1067.0	975.2	895.1	853.2	820.5	800.8	795.2
47.5°	883.5	807.5	754.1	720.8	694.1	681.5	673.4
50°	780.4	713.8	671.3	642.3	627.5	611.5	610.3
52.5°	694.6	640.9	607.7	584.2	565.4	555.8	556.1
55°	583.8	541.3	517.8	499.9	485.2	477.8	474.7
57.5°	491.8	459.9	442.8	426.4	420.2	414.4	412.8
60°	434.6	413.0	397.0	384.1	374.8	372.9	372.3
62.5°	387.3	364.7	353.6	343.6	336.8	333.9	332.9
65°	319.3	302.6	292.8	284.8	282.3	278.0	277.4
67.5°	257.4	247.4	240.9	235.3	232.0	231.8	231.8
70°	219.5	213.9	208.4	205.3	203.4	202.2	202.2
72.5°	186.9	182.8	178.3	176.6	176.3	175.0	174.6
75°	142.4	138.1	138.7	135.6	133.1	130.1	128.2
77.5°	100.9	97.9	97.3	96.9	94.8	94.4	95.4
80°	78.3	75.2	74.5	75.2	74.5	72.8	72.8
82.5°	59.6	57.0	56.4	56.0	55.4	56.0	55.0
85°	32.0	30.9	30.9	30.9	32.0	31.5	30.9
87.5°	17.4	17.2	17.8	17.5	17.6	17.2	17.7
90°	30.1	31.6	32.6	33.2	33.7	34.2	34.7
92.5°	48.6	49.5	50.1	50.4	50.7	51.0	51.4
95°	90.2	91.0	91.4	91.4	91.4	91.4	91.4
97.5°	141.8	142.7	143.2	143.2	143.2	143.2	143.2
100°	178.5	179.0	179.2	179.2	179.2	179.2	179.2
102.5°	217.9	218.6	219.1	219.4	219.5	219.7	220.0
105°	277.6	278.3	279.1	279.8	280.6	281.4	282.1
107.5°	341.9	342.7	343.0	343.0	342.9	342.9	342.8
110°	383.5	383.1	383.2	384.0	384.7	385.5	386.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	430.2	430.0	430.1	430.2	430.3	430.5	430.7
115°	501.1	500.9	500.6	500.3	500.1	499.8	499.6
117.5°	568.9	568.0	567.3	566.8	566.3	565.8	565.3
120°	614.8	613.6	613.1	613.7	614.2	614.7	615.2
122.5°	662.4	661.5	660.6	659.6	658.7	657.8	656.8
125°	731.6	731.1	730.6	730.1	729.6	729.1	728.5
127.5°	797.5	797.0	796.6	796.2	795.8	795.3	795.0
130°	843.8	843.3	842.6	841.5	840.4	839.5	838.4
132.5°	887.3	886.8	886.4	885.9	885.5	885.1	884.7
135°	952.5	952.0	951.4	950.6	949.9	949.0	948.2
137.5°	1015.5	1014.8	1014.5	1014.7	1014.9	1014.9	1015.1
140°	1057.4	1057.1	1056.9	1056.6	1056.3	1056.1	1055.9
142.5°	1096.9	1096.8	1096.7	1096.7	1096.6	1096.6	1096.5
145°	1155.7	1155.4	1154.9	1154.1	1153.3	1152.6	1151.8
147.5°	1209.2	1209.1	1208.8	1208.5	1208.3	1208.1	1207.8
150°	1243.1	1243.1	1243.0	1242.8	1242.5	1242.2	1242.1
152.5°	1275.6	1276.2	1276.1	1275.5	1274.8	1274.2	1273.5
155°	1320.3	1321.3	1321.3	1320.3	1319.3	1318.2	1317.2
157.5°	1359.1	1359.9	1359.8	1358.9	1358.0	1357.2	1356.3
160°	1383.1	1383.8	1383.6	1382.3	1381.1	1379.7	1378.5
162.5°	1405.3	1406.7	1406.8	1405.4	1404.2	1402.9	1401.6
165°	1434.0	1435.6	1435.8	1434.8	1433.7	1432.7	1431.6
167.5°	1458.0	1459.6	1459.6	1457.9	1456.3	1454.8	1453.2
170°	1471.0	1472.6	1472.4	1470.6	1468.8	1467.0	1465.3
172.5°	1480.9	1482.6	1482.6	1480.8	1479.0	1477.2	1475.4
175°	1491.4	1493.3	1493.3	1491.4	1489.6	1487.8	1486.0
177.5°	1496.8	1498.3	1498.2	1496.6	1494.9	1493.3	1491.6
180°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3

(END OF REPORT)