

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: P332859-940

Luminaire Tested: **S124DIW-S1195D1560U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332859-940
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-S1195D1560U940-4F0-1E-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: 10308.5 lumens
Efficiency: N/A
Efficacy: 124.3 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

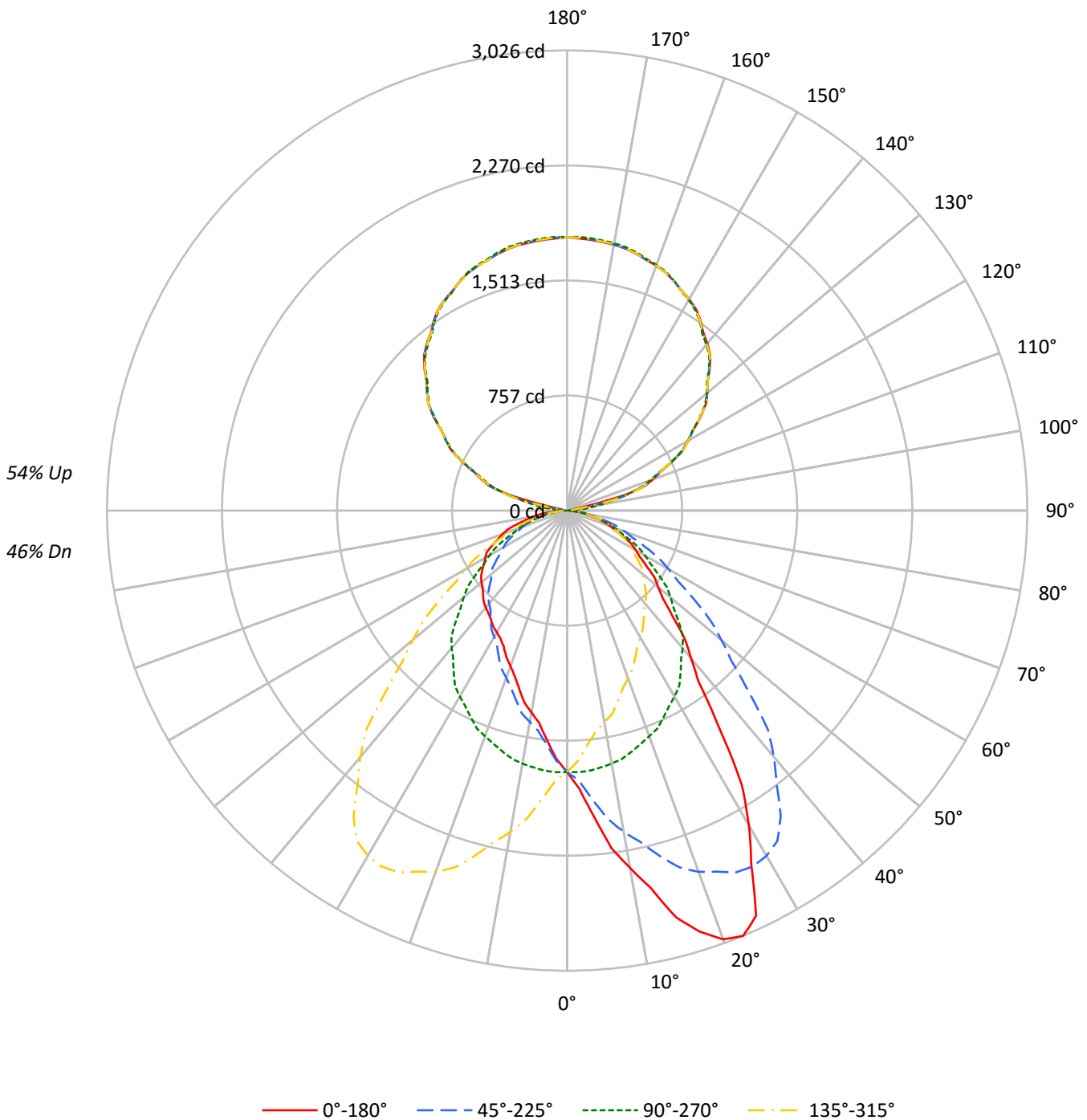
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13875	13875	13875	13875
5°	16339	13910	12277	13910
10°	19563	13849	11053	13849
15°	23147	13709	10151	13709
20°	25775	13566	9346	13566
25°	26191	13356	8790	13356
30°	22287	13154	8614	13154
35°	17134	12827	8615	12827
40°	13355	12440	8778	12440
45°	11136	11860	8926	11860
50°	9800	11150	9229	11150
55°	8978	10301	9600	10301
60°	8414	9541	10046	9541
65°	7834	8692	10418	8692
70°	7159	7848	10655	7848
75°	6394	6906	10524	6906
80°	5360	5658	10195	5658
85°	3955	4085	9763	4085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	1.6
10°-20°	516.1	5.0
20°-30°	818.4	7.9
30°-40°	910.7	8.8
40°-50°	829.0	8.0
50°-60°	677.5	6.6
60°-70°	483.6	4.7
70°-80°	266.3	2.6
80°-90°	77.9	0.8
90°-100°	61.5	0.6
100°-110°	392.1	3.8
110°-120°	750.0	7.3
120°-130°	952.1	9.2
130°-140°	1018.7	9.9
140°-150°	952.6	9.2
150°-160°	768.2	7.5
160°-170°	495.5	4.8
170°-180°	170.8	1.7
0°-30°	1501.9	14.6
0°-40°	2412.6	23.4
0°-60°	3919.1	38.0
0°-90°	4747.0	46.0
90°-120°	1203.6	11.7
90°-150°	4127.0	40.0
90°-180°	5561.0	53.9
0°-180°	10308.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1719	1719	1719	1719	1719	
5°	2016	1716	1515	1716	2016	205
15°	2770	1640	1215	1640	2770	782
25°	2940	1499	987	1499	2940	1296
35°	1739	1302	874	1302	1739	1104
45°	975	1039	782	1039	975	768
55°	638	732	682	732	638	576
65°	410	455	545	455	410	406
75°	205	221	337	221	205	218
85°	43	44	105	44	43	53
90°	40	4	40	4	40	19
95°	39	74	39	74	39	31
105°	383	405	383	405	383	334
115°	761	756	761	756	761	753
125°	1070	1062	1070	1062	1070	953
135°	1327	1318	1327	1318	1327	1022
145°	1528	1520	1528	1520	1528	955
155°	1665	1666	1665	1666	1665	768
165°	1750	1758	1750	1758	1750	494
175°	1787	1798	1787	1798	1787	170
180°	1798	1798	1798	1798	1798	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1829.2	1828.5	1822.9	1821.8	1817.8	1812.7	1811.5	1802.4	1784.1	1775.6	1773.3
5°	2016.2	2030.5	2012.0	2008.4	2006.3	1982.8	1970.7	1956.4	1923.7	1904.5	1889.5
7.5°	2239.5	2241.2	2233.1	2226.6	2208.5	2188.0	2157.2	2124.5	2085.4	2044.9	2014.3
10°	2386.5	2392.2	2382.9	2381.5	2345.2	2322.4	2276.8	2238.4	2194.2	2145.1	2100.2
12.5°	2541.4	2533.4	2528.7	2498.2	2491.5	2450.0	2397.0	2357.4	2289.4	2232.8	2173.2
15°	2769.5	2753.9	2743.9	2701.9	2681.2	2623.5	2567.3	2523.9	2434.9	2350.2	2286.1
17.5°	2903.3	2919.0	2895.9	2878.7	2825.3	2784.9	2727.4	2636.3	2566.6	2461.4	2380.5
20°	3000.2	3001.6	2988.7	2971.0	2929.0	2877.7	2815.0	2715.3	2632.1	2527.5	2416.4
22.5°	3026.4	3026.6	3021.2	3004.6	2972.8	2931.2	2868.0	2784.9	2684.0	2570.2	2459.1
25°	2940.3	2937.5	2943.9	2962.4	2950.3	2937.5	2901.2	2839.3	2745.3	2624.9	2505.4
27.5°	2620.8	2640.4	2676.6	2722.2	2766.1	2799.5	2809.0	2796.2	2738.0	2639.1	2513.7
30°	2390.8	2414.9	2442.0	2487.5	2575.9	2626.4	2681.9	2723.9	2700.5	2621.5	2504.6
32.5°	2137.9	2143.9	2184.0	2235.8	2316.7	2414.0	2502.0	2587.2	2615.6	2574.1	2476.7
35°	1738.6	1748.6	1792.0	1843.3	1942.2	2061.1	2193.5	2311.7	2409.2	2448.4	2398.5
37.5°	1418.8	1447.4	1478.0	1533.1	1620.2	1727.3	1864.9	2017.9	2163.2	2260.6	2277.1
40°	1267.3	1285.0	1307.2	1349.2	1423.2	1528.6	1646.7	1821.9	1976.4	2115.9	2161.5
42.5°	1147.6	1158.1	1171.6	1209.6	1266.0	1370.8	1478.7	1632.8	1787.9	1954.7	2031.0
45°	975.4	986.1	1008.8	1030.9	1073.6	1146.2	1246.6	1373.3	1529.3	1690.1	1831.1
47.5°	851.0	857.7	871.3	894.9	931.2	979.1	1060.8	1166.6	1311.2	1467.3	1617.6
50°	780.3	786.0	796.7	818.1	845.8	888.5	955.5	1054.4	1167.6	1324.9	1472.3
52.5°	724.5	726.7	734.6	749.1	771.2	807.1	862.0	943.9	1049.1	1189.4	1336.2
55°	637.9	640.8	647.9	658.5	677.8	700.5	742.5	803.8	895.6	1017.4	1144.8
57.5°	566.7	568.7	574.7	578.8	594.6	613.1	645.4	689.2	758.8	862.0	975.8
60°	521.1	519.7	526.8	530.4	541.1	556.8	581.7	623.7	684.2	767.5	872.2
62.5°	476.7	474.7	480.7	485.4	491.5	504.9	525.3	558.2	607.3	682.6	773.0
65°	410.1	407.2	410.8	416.5	422.2	429.3	444.3	473.4	512.6	566.7	635.8
67.5°	343.1	346.2	346.7	349.6	352.8	362.6	372.7	393.4	421.1	464.3	522.9
70°	303.3	304.0	306.8	306.8	309.0	317.5	326.1	338.1	365.2	405.1	452.8
72.5°	263.4	266.4	265.3	267.5	269.1	274.8	281.1	292.6	315.7	345.3	385.6
75°	205.0	207.1	207.1	207.9	210.0	212.1	217.1	225.7	242.1	264.1	291.9
77.5°	149.5	149.8	150.8	153.4	153.4	156.8	160.5	167.3	175.4	190.6	207.5
80°	115.3	116.7	116.0	117.4	117.4	120.3	121.7	130.3	133.8	143.8	157.3
82.5°	84.6	86.0	85.9	87.8	89.0	89.5	91.6	95.0	98.5	107.4	112.9
85°	42.7	44.1	42.7	44.1	46.3	47.0	49.1	49.8	52.7	54.8	59.8
87.5°	20.6	22.2	22.0	22.6	23.5	23.9	24.1	23.2	25.1	25.3	27.1
90°	40.3	39.8	39.1	38.5	38.0	36.7	35.0	33.2	31.4	29.6	27.2
92.5°	37.1	37.0	36.9	36.7	36.6	35.7	33.9	32.1	30.3	28.5	26.1
95°	39.0	38.7	38.4	38.1	37.8	36.7	35.0	33.2	31.4	29.6	29.2
97.5°	37.6	37.4	37.1	36.7	36.5	36.2	36.0	35.8	35.7	35.5	68.8
100°	37.6	37.4	37.1	36.7	36.5	38.9	44.0	49.0	54.1	59.2	100.4
102.5°	38.7	38.7	38.6	38.5	38.5	65.9	120.6	175.5	230.2	285.1	290.4
105°	383.3	394.0	404.7	415.5	426.2	430.3	427.7	424.9	422.2	419.5	418.0
107.5°	534.1	533.0	531.8	530.7	529.6	528.3	527.1	525.8	524.4	523.1	521.0
110°	599.8	598.9	598.0	597.1	596.2	595.4	594.9	594.2	593.6	593.0	591.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	665.4	664.2	663.1	662.0	660.8	660.3	660.4	660.6	660.7	660.8	660.0
115°	761.2	761.2	761.2	761.2	761.2	760.8	760.2	759.6	759.0	758.4	758.8
117.5°	858.4	858.6	858.7	858.8	859.0	859.1	859.2	859.3	859.4	859.5	858.9
120°	919.8	920.4	921.0	921.6	922.2	922.2	921.6	921.0	920.4	919.8	920.1
122.5°	980.1	980.6	981.2	981.9	982.4	982.6	982.2	981.9	981.5	981.1	980.7
125°	1070.4	1070.1	1069.8	1069.5	1069.3	1068.6	1067.7	1066.8	1066.0	1065.1	1065.6
127.5°	1149.8	1150.0	1150.2	1150.5	1150.7	1150.9	1151.1	1151.3	1151.5	1151.6	1150.2
130°	1203.5	1203.5	1203.5	1203.5	1203.5	1203.4	1203.1	1202.8	1202.5	1202.2	1201.3
132.5°	1253.0	1253.3	1253.5	1253.7	1254.0	1253.9	1253.7	1253.4	1253.0	1252.8	1251.6
135°	1327.2	1326.7	1326.1	1325.4	1324.9	1324.3	1323.7	1323.0	1322.5	1321.9	1320.7
137.5°	1390.7	1390.9	1391.1	1391.2	1391.4	1391.2	1390.5	1389.9	1389.2	1388.6	1387.2
140°	1434.9	1434.5	1434.2	1434.0	1433.6	1433.1	1432.2	1431.3	1430.4	1429.4	1428.9
142.5°	1471.4	1471.3	1471.3	1471.2	1471.1	1470.8	1470.2	1469.5	1468.8	1468.2	1467.8
145°	1527.6	1527.1	1526.4	1525.8	1525.3	1524.7	1524.5	1524.2	1523.8	1523.6	1523.6
147.5°	1574.1	1573.9	1573.5	1573.2	1573.0	1572.7	1572.4	1572.2	1572.0	1571.7	1572.0
150°	1604.3	1604.0	1603.7	1603.4	1603.1	1602.9	1602.9	1602.9	1602.9	1602.9	1603.2
152.5°	1630.0	1630.2	1630.4	1630.6	1630.8	1630.7	1630.1	1629.7	1629.2	1628.7	1629.2
155°	1664.8	1665.7	1666.6	1667.5	1668.4	1668.2	1667.1	1665.8	1664.6	1663.4	1664.4
157.5°	1693.8	1695.4	1696.9	1698.5	1700.0	1700.0	1698.5	1696.9	1695.4	1693.8	1694.9
160°	1713.2	1715.0	1716.8	1718.6	1720.4	1720.4	1718.6	1716.8	1715.0	1713.2	1713.5
162.5°	1728.2	1730.3	1732.3	1734.4	1736.3	1736.5	1734.7	1733.0	1731.1	1729.3	1729.7
165°	1749.5	1752.2	1754.9	1757.6	1760.2	1760.4	1758.0	1755.6	1753.2	1750.9	1750.9
167.5°	1765.4	1768.4	1771.4	1774.3	1777.4	1777.5	1774.9	1772.3	1769.6	1767.0	1767.2
170°	1775.0	1778.1	1781.0	1784.0	1787.0	1787.3	1784.9	1782.5	1780.1	1777.7	1777.4
172.5°	1780.4	1783.7	1786.9	1790.1	1793.3	1793.8	1791.4	1789.0	1786.5	1784.2	1783.9
175°	1787.2	1790.7	1794.3	1797.9	1801.5	1802.0	1799.3	1796.5	1793.9	1791.2	1790.9
177.5°	1791.4	1794.3	1797.2	1800.1	1803.0	1803.4	1801.5	1799.6	1797.7	1795.7	1795.3
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1773.9	1765.9	1760.2	1755.7	1743.1	1735.7	1730.0	1722.1	1713.0	1703.3	1691.3
5°	1874.6	1850.4	1832.6	1805.5	1779.9	1758.5	1736.4	1716.5	1692.3	1666.0	1646.7
7.5°	1980.4	1944.4	1898.2	1858.2	1813.2	1774.1	1739.0	1703.2	1665.8	1629.7	1596.5
10°	2047.5	2001.3	1950.0	1889.5	1832.6	1782.0	1735.0	1689.4	1645.3	1601.2	1563.4
12.5°	2120.0	2062.3	1986.5	1915.8	1851.9	1784.3	1727.6	1671.8	1618.5	1572.2	1528.1
15°	2217.1	2133.7	2046.1	1951.4	1867.4	1788.4	1710.8	1640.3	1580.6	1519.3	1476.6
17.5°	2276.7	2173.6	2073.5	1974.5	1872.9	1773.2	1689.4	1608.2	1533.3	1472.5	1418.6
20°	2316.0	2213.5	2088.8	1989.9	1868.8	1766.4	1669.6	1579.1	1500.8	1436.0	1380.5
22.5°	2350.2	2231.7	2107.1	1976.8	1856.4	1747.6	1641.6	1550.6	1470.6	1402.4	1349.2
25°	2368.7	2232.7	2097.4	1967.8	1831.1	1702.3	1606.1	1499.4	1413.9	1342.0	1285.0
27.5°	2370.7	2225.3	2072.2	1928.2	1787.2	1667.1	1545.8	1450.4	1361.6	1285.7	1231.0
30°	2364.4	2212.8	2048.3	1892.4	1750.7	1620.4	1515.0	1411.1	1320.7	1245.2	1188.2
32.5°	2344.5	2186.6	2017.5	1852.5	1705.7	1578.2	1469.5	1370.6	1282.5	1208.2	1148.3
35°	2286.8	2130.8	1950.7	1779.1	1629.0	1500.1	1401.9	1301.5	1213.2	1142.7	1085.0
37.5°	2196.6	2055.7	1872.6	1695.1	1547.5	1418.1	1320.7	1229.9	1150.4	1078.8	1019.7
40°	2118.1	1994.2	1810.5	1637.4	1478.0	1354.9	1263.7	1180.4	1101.4	1033.8	977.5
42.5°	2027.5	1919.6	1750.2	1566.8	1413.1	1289.3	1200.5	1125.7	1051.2	988.7	932.6
45°	1866.0	1794.8	1635.4	1465.9	1305.7	1188.9	1104.2	1038.8	976.1	914.9	867.9
47.5°	1680.3	1645.0	1510.7	1349.9	1197.7	1082.7	1009.2	948.8	893.8	842.0	800.5
50°	1555.6	1538.6	1422.5	1267.3	1122.0	1013.8	939.8	887.8	840.8	795.2	756.1
52.5°	1432.6	1432.0	1327.4	1185.3	1050.9	946.6	873.2	824.6	783.9	746.8	711.7
55°	1244.5	1264.4	1182.6	1055.8	935.5	841.5	775.3	731.9	703.4	672.8	646.5
57.5°	1071.7	1104.8	1037.3	925.7	825.3	738.7	681.1	648.5	618.1	599.6	580.4
60°	959.0	990.3	937.6	843.6	748.9	674.9	620.1	590.9	564.5	551.8	538.2
62.5°	858.7	886.6	847.7	760.5	678.3	607.2	560.9	532.8	515.1	501.1	492.1
65°	715.5	739.0	705.5	642.2	571.7	514.8	477.0	455.0	437.8	432.1	422.2
67.5°	578.4	599.8	581.7	527.8	471.3	428.2	398.7	377.5	367.4	362.4	355.3
70°	497.0	518.3	499.1	452.1	408.7	372.4	344.6	332.5	321.8	319.7	309.7
72.5°	428.0	442.6	423.3	386.6	349.5	318.8	297.3	284.6	279.1	275.3	269.8
75°	321.1	333.9	321.1	292.6	266.3	245.0	226.4	221.4	215.0	212.9	209.3
77.5°	227.3	238.4	228.5	210.7	191.1	174.6	164.6	158.2	156.8	153.1	154.8
80°	173.7	180.8	171.6	159.4	143.8	132.4	125.3	121.7	117.4	116.0	118.9
82.5°	124.8	127.9	123.1	115.0	103.3	95.9	91.1	87.0	86.1	86.4	86.4
85°	64.8	64.1	63.4	56.3	52.7	47.7	44.9	44.1	43.4	44.9	46.3
87.5°	26.6	26.7	25.7	22.8	20.4	18.1	16.9	15.6	16.9	18.1	19.3
90°	24.8	22.4	20.1	17.2	13.9	10.6	7.3	4.0	7.3	10.6	13.9
92.5°	23.7	21.3	18.9	17.7	17.5	17.3	17.1	16.9	17.1	17.3	17.5
95°	29.0	28.7	28.4	33.3	43.5	53.7	63.8	73.9	63.8	53.7	43.5
97.5°	102.2	135.5	168.9	182.4	176.1	169.7	163.4	157.0	163.4	169.7	176.1
100°	141.6	182.9	224.1	242.0	236.7	231.3	226.0	220.5	226.0	231.3	236.7
102.5°	295.9	301.2	306.6	307.3	303.4	299.4	295.5	291.5	295.5	299.4	303.4
105°	416.6	415.1	413.6	412.0	410.2	408.3	406.5	404.7	406.5	408.3	410.2
107.5°	519.1	517.0	515.0	513.5	512.6	511.8	510.9	509.9	510.9	511.8	512.6
110°	589.4	587.6	585.9	584.5	583.6	582.7	581.8	580.9	581.8	582.7	583.6



TEST NUMBER: P332859-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	659.2	658.3	657.5	656.2	654.6	653.0	651.4	649.8	651.4	653.0	654.6
115°	759.0	759.3	759.6	759.3	758.4	757.5	756.6	755.7	756.6	757.5	758.4
117.5°	858.3	857.6	856.9	856.0	854.8	853.6	852.4	851.2	852.4	853.6	854.8
120°	920.4	920.7	921.0	920.5	919.4	918.2	916.9	915.8	916.9	918.2	919.4
122.5°	980.3	979.9	979.5	978.9	978.1	977.4	976.7	976.0	976.7	977.4	978.1
125°	1066.2	1066.8	1067.4	1067.1	1066.0	1064.7	1063.5	1062.4	1063.5	1064.7	1066.0
127.5°	1148.9	1147.5	1146.1	1145.3	1145.0	1144.7	1144.4	1144.1	1144.4	1144.7	1145.0
130°	1200.4	1199.5	1198.6	1198.0	1197.7	1197.4	1197.1	1196.9	1197.1	1197.4	1197.7
132.5°	1250.4	1249.4	1248.2	1247.4	1246.9	1246.3	1245.7	1245.2	1245.7	1246.3	1246.9
135°	1319.5	1318.3	1317.1	1316.6	1317.0	1317.2	1317.5	1317.9	1317.5	1317.2	1317.0
137.5°	1386.0	1384.6	1383.3	1382.6	1382.5	1382.3	1382.2	1382.2	1382.2	1382.3	1382.5
140°	1428.3	1427.6	1427.1	1426.5	1425.8	1425.3	1424.7	1424.1	1424.7	1425.3	1425.8
142.5°	1467.5	1467.1	1466.8	1466.1	1465.0	1463.9	1462.8	1461.7	1462.8	1463.9	1465.0
145°	1523.6	1523.6	1523.6	1523.1	1522.2	1521.3	1520.5	1519.6	1520.5	1521.3	1522.2
147.5°	1572.4	1572.6	1572.9	1572.3	1570.6	1568.9	1567.2	1565.6	1567.2	1568.9	1570.6
150°	1603.6	1603.8	1604.1	1603.7	1602.5	1601.2	1600.1	1598.9	1600.1	1601.2	1602.5
152.5°	1629.8	1630.3	1630.9	1630.7	1629.7	1628.8	1627.8	1626.8	1627.8	1628.8	1629.7
155°	1665.3	1666.2	1667.1	1667.3	1667.1	1666.7	1666.4	1666.2	1666.4	1666.7	1667.1
157.5°	1695.9	1696.8	1697.9	1698.5	1698.7	1698.9	1699.1	1699.2	1699.1	1698.9	1698.7
160°	1713.8	1714.0	1714.4	1715.0	1715.9	1716.8	1717.7	1718.6	1717.7	1716.8	1715.9
162.5°	1729.9	1730.2	1730.5	1731.3	1732.4	1733.5	1734.6	1735.8	1734.6	1733.5	1732.4
165°	1750.9	1750.9	1750.9	1751.6	1753.1	1754.6	1756.0	1757.6	1756.0	1754.6	1753.1
167.5°	1767.4	1767.5	1767.7	1768.5	1770.1	1771.7	1773.3	1774.8	1773.3	1771.7	1770.1
170°	1777.2	1776.8	1776.6	1777.3	1779.1	1780.8	1782.7	1784.5	1782.7	1780.8	1779.1
172.5°	1783.6	1783.3	1783.0	1783.8	1785.6	1787.3	1789.1	1790.9	1789.1	1787.3	1785.6
175°	1790.6	1790.3	1790.0	1790.7	1792.5	1794.3	1796.1	1797.9	1796.1	1794.3	1792.5
177.5°	1794.8	1794.3	1793.9	1794.5	1796.1	1797.8	1799.5	1801.2	1799.5	1797.8	1796.1
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



TEST NUMBER: P332859-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1685.6	1680.5	1673.1	1662.9	1654.3	1645.2	1642.9	1639.5	1646.3	1640.7	1638.9
5°	1630.4	1615.4	1596.2	1574.1	1561.3	1542.8	1539.3	1532.1	1525.0	1524.3	1517.2
7.5°	1571.8	1549.9	1524.7	1502.2	1481.4	1461.2	1448.0	1445.1	1434.6	1428.4	1421.3
10°	1534.3	1507.2	1478.0	1456.7	1432.4	1411.1	1396.2	1387.6	1380.5	1372.6	1365.6
12.5°	1489.9	1461.1	1437.0	1413.9	1385.2	1369.0	1344.3	1329.5	1328.1	1328.2	1309.7
15°	1438.2	1409.7	1372.6	1339.9	1324.2	1292.9	1279.3	1262.3	1251.6	1240.9	1232.4
17.5°	1379.0	1343.6	1314.6	1277.1	1247.2	1222.3	1204.5	1194.3	1178.1	1163.1	1152.1
20°	1342.0	1304.3	1273.7	1233.8	1201.0	1170.5	1155.5	1141.3	1129.2	1116.3	1104.2
22.5°	1304.4	1265.0	1227.5	1188.8	1158.3	1126.1	1111.6	1092.3	1080.8	1073.6	1061.5
25°	1245.2	1202.5	1159.8	1122.8	1091.5	1062.9	1043.7	1028.8	1015.9	1010.2	1002.5
27.5°	1180.8	1138.4	1097.2	1055.1	1019.5	998.9	983.5	972.2	964.8	957.3	953.8
30°	1139.9	1095.7	1051.6	1012.4	979.6	959.0	944.8	936.9	931.2	927.6	924.1
32.5°	1098.2	1054.7	1008.3	972.5	943.2	924.8	914.0	906.2	903.3	902.1	900.8
35°	1031.6	987.5	944.8	912.8	884.9	877.8	868.6	864.3	862.9	867.9	870.0
37.5°	967.1	926.1	886.8	855.8	837.6	827.2	824.0	824.1	829.3	833.7	838.8
40°	925.5	885.6	848.6	821.6	804.5	798.1	796.7	800.2	805.9	810.9	816.6
42.5°	885.1	845.8	812.2	786.8	774.9	769.0	769.9	773.5	781.4	787.6	796.1
45°	822.3	789.5	756.8	736.2	726.2	727.6	727.6	734.1	741.8	751.1	760.4
47.5°	763.2	730.2	703.3	685.9	680.7	679.5	683.5	691.9	703.1	714.5	727.5
50°	723.4	692.1	668.5	652.8	647.2	649.3	655.0	662.8	676.4	690.6	704.1
52.5°	682.9	654.4	632.7	618.1	614.1	618.0	623.7	636.1	647.9	663.3	679.7
55°	620.1	595.9	578.8	568.1	566.7	568.8	575.2	588.8	605.8	625.1	640.8
57.5°	557.6	537.3	521.7	514.3	515.1	517.0	527.5	543.7	561.9	582.4	602.6
60°	515.4	497.0	484.1	478.4	479.1	483.4	496.2	511.2	534.0	553.9	575.2
62.5°	475.5	459.3	447.1	442.0	441.0	450.4	462.6	478.1	501.0	523.2	546.2
65°	411.5	398.7	388.7	385.8	388.0	395.1	410.8	431.4	450.7	474.1	498.4
67.5°	348.8	338.3	331.4	332.8	335.4	345.9	359.0	376.7	398.6	422.9	446.8
70°	309.0	299.0	293.3	294.0	298.3	311.1	322.5	340.3	363.8	388.7	408.7
72.5°	268.0	261.4	256.3	259.3	263.6	272.4	286.6	304.4	325.1	348.3	369.3
75°	205.7	205.7	202.9	205.0	211.4	220.0	230.7	249.1	269.8	288.4	305.4
77.5°	152.7	151.1	152.9	155.5	159.2	169.3	181.6	194.7	210.4	228.8	242.9
80°	116.7	117.4	121.0	125.3	126.7	134.6	147.4	159.4	171.6	187.3	200.8
82.5°	87.7	88.5	90.2	95.7	97.1	105.5	113.8	125.9	136.9	147.4	158.6
85°	47.7	47.7	51.3	53.4	57.0	62.7	67.6	74.7	84.7	91.8	102.5
87.5°	21.7	22.2	25.0	26.6	28.8	32.1	33.6	40.2	42.9	46.1	51.5
90°	17.2	20.1	22.4	24.8	27.2	29.6	31.4	33.2	35.0	36.7	38.0
92.5°	17.7	18.9	21.3	23.7	26.1	28.5	30.3	32.1	33.9	35.7	36.6
95°	33.3	28.4	28.7	29.0	29.2	29.6	31.4	33.2	35.0	36.7	37.8
97.5°	182.4	168.9	135.5	102.2	68.8	35.5	35.7	35.8	36.0	36.2	36.5
100°	242.0	224.1	182.9	141.6	100.4	59.2	54.1	49.0	44.0	38.9	36.5
102.5°	307.3	306.6	301.2	295.9	290.4	285.1	230.2	175.5	120.6	65.9	38.5
105°	412.0	413.6	415.1	416.6	418.0	419.5	422.2	424.9	427.7	430.3	426.2
107.5°	513.5	515.0	517.0	519.1	521.0	523.1	524.4	525.8	527.1	528.3	529.6
110°	584.5	585.9	587.6	589.4	591.2	593.0	593.6	594.2	594.9	595.4	596.2



TEST NUMBER: P332859-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	656.2	657.5	658.3	659.2	660.0	660.8	660.7	660.6	660.4	660.3	660.8
115°	759.3	759.6	759.3	759.0	758.8	758.4	759.0	759.6	760.2	760.8	761.2
117.5°	856.0	856.9	857.6	858.3	858.9	859.5	859.4	859.3	859.2	859.1	859.0
120°	920.5	921.0	920.7	920.4	920.1	919.8	920.4	921.0	921.6	922.2	922.2
122.5°	978.9	979.5	979.9	980.3	980.7	981.1	981.5	981.9	982.2	982.6	982.4
125°	1067.1	1067.4	1066.8	1066.2	1065.6	1065.1	1066.0	1066.8	1067.7	1068.6	1069.3
127.5°	1145.3	1146.1	1147.5	1148.9	1150.2	1151.6	1151.5	1151.3	1151.1	1150.9	1150.7
130°	1198.0	1198.6	1199.5	1200.4	1201.3	1202.2	1202.5	1202.8	1203.1	1203.4	1203.5
132.5°	1247.4	1248.2	1249.4	1250.4	1251.6	1252.8	1253.0	1253.4	1253.7	1253.9	1254.0
135°	1316.6	1317.1	1318.3	1319.5	1320.7	1321.9	1322.5	1323.0	1323.7	1324.3	1324.9
137.5°	1382.6	1383.3	1384.6	1386.0	1387.2	1388.6	1389.2	1389.9	1390.5	1391.2	1391.4
140°	1426.5	1427.1	1427.6	1428.3	1428.9	1429.4	1430.4	1431.3	1432.2	1433.1	1433.6
142.5°	1466.1	1466.8	1467.1	1467.5	1467.8	1468.2	1468.8	1469.5	1470.2	1470.8	1471.1
145°	1523.1	1523.6	1523.6	1523.6	1523.6	1523.6	1523.8	1524.2	1524.5	1524.7	1525.3
147.5°	1572.3	1572.9	1572.6	1572.4	1572.0	1571.7	1572.0	1572.2	1572.4	1572.7	1573.0
150°	1603.7	1604.1	1603.8	1603.6	1603.2	1602.9	1602.9	1602.9	1602.9	1602.9	1603.1
152.5°	1630.7	1630.9	1630.3	1629.8	1629.2	1628.7	1629.2	1629.7	1630.1	1630.7	1630.8
155°	1667.3	1667.1	1666.2	1665.3	1664.4	1663.4	1664.6	1665.8	1667.1	1668.2	1668.4
157.5°	1698.5	1697.9	1696.8	1695.9	1694.9	1693.8	1695.4	1696.9	1698.5	1700.0	1700.0
160°	1715.0	1714.4	1714.0	1713.8	1713.5	1713.2	1715.0	1716.8	1718.6	1720.4	1720.4
162.5°	1731.3	1730.5	1730.2	1729.9	1729.7	1729.3	1731.1	1733.0	1734.7	1736.5	1736.3
165°	1751.6	1750.9	1750.9	1750.9	1750.9	1750.9	1753.2	1755.6	1758.0	1760.4	1760.2
167.5°	1768.5	1767.7	1767.5	1767.4	1767.2	1767.0	1769.6	1772.3	1774.9	1777.5	1777.4
170°	1777.3	1776.6	1776.8	1777.2	1777.4	1777.7	1780.1	1782.5	1784.9	1787.3	1787.0
172.5°	1783.8	1783.0	1783.3	1783.6	1783.9	1784.2	1786.5	1789.0	1791.4	1793.8	1793.3
175°	1790.7	1790.0	1790.3	1790.6	1790.9	1791.2	1793.9	1796.5	1799.3	1802.0	1801.5
177.5°	1794.5	1793.9	1794.3	1794.8	1795.3	1795.7	1797.7	1799.6	1801.5	1803.4	1803.0
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



TEST NUMBER: P332859-940

CATALOG NUMBER: S124DIW-S1195D1560U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1637.8	1636.6	1632.6	1632.1	1632.6	1636.6	1637.8	1638.9	1640.7	1646.3	1639.5
5°	1512.9	1509.3	1507.2	1515.0	1507.2	1509.3	1512.9	1517.2	1524.3	1525.0	1532.1
7.5°	1418.8	1415.9	1409.7	1407.7	1409.7	1415.9	1418.8	1421.3	1428.4	1434.6	1445.1
10°	1358.4	1355.6	1349.9	1348.4	1349.9	1355.6	1358.4	1365.6	1372.6	1380.5	1387.6
12.5°	1300.3	1294.6	1293.5	1294.9	1293.5	1294.6	1300.3	1309.7	1328.2	1328.1	1329.5
15°	1223.2	1220.3	1212.5	1214.6	1212.5	1220.3	1223.2	1232.4	1240.9	1251.6	1262.3
17.5°	1147.1	1143.7	1134.2	1142.5	1134.2	1143.7	1147.1	1152.1	1163.1	1178.1	1194.3
20°	1099.2	1093.6	1088.6	1087.9	1088.6	1093.6	1099.2	1104.2	1116.3	1129.2	1141.3
22.5°	1053.6	1048.6	1048.1	1043.5	1048.1	1048.6	1053.6	1061.5	1073.6	1080.8	1092.3
25°	996.8	991.8	990.3	986.8	990.3	991.8	996.8	1002.5	1010.2	1015.9	1028.8
27.5°	953.1	950.6	948.1	949.1	948.1	950.6	953.1	953.8	957.3	964.8	972.2
30°	926.2	925.5	924.1	924.1	924.1	925.5	926.2	924.1	927.6	931.2	936.9
32.5°	904.0	903.9	904.7	904.7	904.7	903.9	904.0	900.8	902.1	903.3	906.2
35°	872.9	874.9	876.4	874.2	876.4	874.9	872.9	870.0	867.9	862.9	864.3
37.5°	844.6	846.8	848.8	851.2	848.8	846.8	844.6	838.8	833.7	829.3	824.1
40°	823.0	828.0	829.4	832.9	829.4	828.0	823.0	816.6	810.9	805.9	800.2
42.5°	802.5	808.1	811.7	812.4	811.7	808.1	802.5	796.1	787.6	781.4	773.5
45°	771.1	776.8	781.8	781.8	781.8	776.8	771.1	760.4	751.1	741.8	734.1
47.5°	738.4	746.7	751.7	753.0	751.7	746.7	738.4	727.5	714.5	703.1	691.9
50°	716.2	726.2	731.2	734.8	731.2	726.2	716.2	704.1	690.6	676.4	662.8
52.5°	694.6	704.5	711.2	713.1	711.2	704.5	694.6	679.7	663.3	647.9	636.1
55°	657.1	671.4	679.2	682.1	679.2	671.4	657.1	640.8	625.1	605.8	588.8
57.5°	621.8	634.9	644.0	646.1	644.0	634.9	621.8	602.6	582.4	561.9	543.7
60°	594.5	608.7	620.1	622.2	620.1	608.7	594.5	575.2	553.9	534.0	511.2
62.5°	566.6	581.4	591.7	597.2	591.7	581.4	566.6	546.2	523.2	501.0	478.1
65°	518.3	533.2	543.2	545.4	543.2	533.2	518.3	498.4	474.1	450.7	431.4
67.5°	465.7	480.5	487.1	491.2	487.1	480.5	465.7	446.8	422.9	398.6	376.7
70°	428.6	440.7	447.8	451.4	447.8	440.7	428.6	408.7	388.7	363.8	340.3
72.5°	386.5	399.1	407.4	408.0	407.4	399.1	386.5	369.3	348.3	325.1	304.4
75°	321.8	333.2	337.4	337.4	337.4	333.2	321.8	305.4	288.4	269.8	249.1
77.5°	254.8	260.6	266.0	267.2	266.0	260.6	254.8	242.9	228.8	210.4	194.7
80°	211.4	215.0	219.3	219.3	219.3	215.0	211.4	200.8	187.3	171.6	159.4
82.5°	167.0	170.0	174.3	173.7	174.3	170.0	167.0	158.6	147.4	136.9	125.9
85°	101.1	107.5	106.8	105.4	106.8	107.5	101.1	102.5	91.8	84.7	74.7
87.5°	53.2	53.9	55.8	57.1	55.8	53.9	53.2	51.5	46.1	42.9	40.2
90°	38.5	39.1	39.8	40.3	39.8	39.1	38.5	38.0	36.7	35.0	33.2
92.5°	36.7	36.9	37.0	37.1	37.0	36.9	36.7	36.6	35.7	33.9	32.1
95°	38.1	38.4	38.7	39.0	38.7	38.4	38.1	37.8	36.7	35.0	33.2
97.5°	36.7	37.1	37.4	37.6	37.4	37.1	36.7	36.5	36.2	36.0	35.8
100°	36.7	37.1	37.4	37.6	37.4	37.1	36.7	36.5	38.9	44.0	49.0
102.5°	38.5	38.6	38.7	38.7	38.7	38.6	38.5	38.5	65.9	120.6	175.5
105°	415.5	404.7	394.0	383.3	394.0	404.7	415.5	426.2	430.3	427.7	424.9
107.5°	530.7	531.8	533.0	534.1	533.0	531.8	530.7	529.6	528.3	527.1	525.8
110°	597.1	598.0	598.9	599.8	598.9	598.0	597.1	596.2	595.4	594.9	594.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	662.0	663.1	664.2	665.4	664.2	663.1	662.0	660.8	660.3	660.4	660.6
115°	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	760.8	760.2	759.6
117.5°	858.8	858.7	858.6	858.4	858.6	858.7	858.8	859.0	859.1	859.2	859.3
120°	921.6	921.0	920.4	919.8	920.4	921.0	921.6	922.2	922.2	921.6	921.0
122.5°	981.9	981.2	980.6	980.1	980.6	981.2	981.9	982.4	982.6	982.2	981.9
125°	1069.5	1069.8	1070.1	1070.4	1070.1	1069.8	1069.5	1069.3	1068.6	1067.7	1066.8
127.5°	1150.5	1150.2	1150.0	1149.8	1150.0	1150.2	1150.5	1150.7	1150.9	1151.1	1151.3
130°	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.4	1203.1	1202.8
132.5°	1253.7	1253.5	1253.3	1253.0	1253.3	1253.5	1253.7	1254.0	1253.9	1253.7	1253.4
135°	1325.4	1326.1	1326.7	1327.2	1326.7	1326.1	1325.4	1324.9	1324.3	1323.7	1323.0
137.5°	1391.2	1391.1	1390.9	1390.7	1390.9	1391.1	1391.2	1391.4	1391.2	1390.5	1389.9
140°	1434.0	1434.2	1434.5	1434.9	1434.5	1434.2	1434.0	1433.6	1433.1	1432.2	1431.3
142.5°	1471.2	1471.3	1471.3	1471.4	1471.3	1471.3	1471.2	1471.1	1470.8	1470.2	1469.5
145°	1525.8	1526.4	1527.1	1527.6	1527.1	1526.4	1525.8	1525.3	1524.7	1524.5	1524.2
147.5°	1573.2	1573.5	1573.9	1574.1	1573.9	1573.5	1573.2	1573.0	1572.7	1572.4	1572.2
150°	1603.4	1603.7	1604.0	1604.3	1604.0	1603.7	1603.4	1603.1	1602.9	1602.9	1602.9
152.5°	1630.6	1630.4	1630.2	1630.0	1630.2	1630.4	1630.6	1630.8	1630.7	1630.1	1629.7
155°	1667.5	1666.6	1665.7	1664.8	1665.7	1666.6	1667.5	1668.4	1668.2	1667.1	1665.8
157.5°	1698.5	1696.9	1695.4	1693.8	1695.4	1696.9	1698.5	1700.0	1700.0	1698.5	1696.9
160°	1718.6	1716.8	1715.0	1713.2	1715.0	1716.8	1718.6	1720.4	1720.4	1718.6	1716.8
162.5°	1734.4	1732.3	1730.3	1728.2	1730.3	1732.3	1734.4	1736.3	1736.5	1734.7	1733.0
165°	1757.6	1754.9	1752.2	1749.5	1752.2	1754.9	1757.6	1760.2	1760.4	1758.0	1755.6
167.5°	1774.3	1771.4	1768.4	1765.4	1768.4	1771.4	1774.3	1777.4	1777.5	1774.9	1772.3
170°	1784.0	1781.0	1778.1	1775.0	1778.1	1781.0	1784.0	1787.0	1787.3	1784.9	1782.5
172.5°	1790.1	1786.9	1783.7	1780.4	1783.7	1786.9	1790.1	1793.3	1793.8	1791.4	1789.0
175°	1797.9	1794.3	1790.7	1787.2	1790.7	1794.3	1797.9	1801.5	1802.0	1799.3	1796.5
177.5°	1800.1	1797.2	1794.3	1791.4	1794.3	1797.2	1800.1	1803.0	1803.4	1801.5	1799.6
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1642.9	1645.2	1654.3	1662.9	1673.1	1680.5	1685.6	1691.3	1703.3	1713.0	1722.1
5°	1539.3	1542.8	1561.3	1574.1	1596.2	1615.4	1630.4	1646.7	1666.0	1692.3	1716.5
7.5°	1448.0	1461.2	1481.4	1502.2	1524.7	1549.9	1571.8	1596.5	1629.7	1665.8	1703.2
10°	1396.2	1411.1	1432.4	1456.7	1478.0	1507.2	1534.3	1563.4	1601.2	1645.3	1689.4
12.5°	1344.3	1369.0	1385.2	1413.9	1437.0	1461.1	1489.9	1528.1	1572.2	1618.5	1671.8
15°	1279.3	1292.9	1324.2	1339.9	1372.6	1409.7	1438.2	1476.6	1519.3	1580.6	1640.3
17.5°	1204.5	1222.3	1247.2	1277.1	1314.6	1343.6	1379.0	1418.6	1472.5	1533.3	1608.2
20°	1155.5	1170.5	1201.0	1233.8	1273.7	1304.3	1342.0	1380.5	1436.0	1500.8	1579.1
22.5°	1111.6	1126.1	1158.3	1188.8	1227.5	1265.0	1304.4	1349.2	1402.4	1470.6	1550.6
25°	1043.7	1062.9	1091.5	1122.8	1159.8	1202.5	1245.2	1285.0	1342.0	1413.9	1499.4
27.5°	983.5	998.9	1019.5	1055.1	1097.2	1138.4	1180.8	1231.0	1285.7	1361.6	1450.4
30°	944.8	959.0	979.6	1012.4	1051.6	1095.7	1139.9	1188.2	1245.2	1320.7	1411.1
32.5°	914.0	924.8	943.2	972.5	1008.3	1054.7	1098.2	1148.3	1208.2	1282.5	1370.6
35°	868.6	877.8	884.9	912.8	944.8	987.5	1031.6	1085.0	1142.7	1213.2	1301.5
37.5°	824.0	827.2	837.6	855.8	886.8	926.1	967.1	1019.7	1078.8	1150.4	1229.9
40°	796.7	798.1	804.5	821.6	848.6	885.6	925.5	977.5	1033.8	1101.4	1180.4
42.5°	769.9	769.0	774.9	786.8	812.2	845.8	885.1	932.6	988.7	1051.2	1125.7
45°	727.6	727.6	726.2	736.2	756.8	789.5	822.3	867.9	914.9	976.1	1038.8
47.5°	683.5	679.5	680.7	685.9	703.3	730.2	763.2	800.5	842.0	893.8	948.8
50°	655.0	649.3	647.2	652.8	668.5	692.1	723.4	756.1	795.2	840.8	887.8
52.5°	623.7	618.0	614.1	618.1	632.7	654.4	682.9	711.7	746.8	783.9	824.6
55°	575.2	568.8	566.7	568.1	578.8	595.9	620.1	646.5	672.8	703.4	731.9
57.5°	527.5	517.0	515.1	514.3	521.7	537.3	557.6	580.4	599.6	618.1	648.5
60°	496.2	483.4	479.1	478.4	484.1	497.0	515.4	538.2	551.8	564.5	590.9
62.5°	462.6	450.4	441.0	442.0	447.1	459.3	475.5	492.1	501.1	515.1	532.8
65°	410.8	395.1	388.0	385.8	388.7	398.7	411.5	422.2	432.1	437.8	455.0
67.5°	359.0	345.9	335.4	332.8	331.4	338.3	348.8	355.3	362.4	367.4	377.5
70°	322.5	311.1	298.3	294.0	293.3	299.0	309.0	309.7	319.7	321.8	332.5
72.5°	286.6	272.4	263.6	259.3	256.3	261.4	268.0	269.8	275.3	279.1	284.6
75°	230.7	220.0	211.4	205.0	202.9	205.7	205.7	209.3	212.9	215.0	221.4
77.5°	181.6	169.3	159.2	155.5	152.9	151.1	152.7	154.8	153.1	156.8	158.2
80°	147.4	134.6	126.7	125.3	121.0	117.4	116.7	118.9	116.0	117.4	121.7
82.5°	113.8	105.5	97.1	95.7	90.2	88.5	87.7	86.4	86.4	86.1	87.0
85°	67.6	62.7	57.0	53.4	51.3	47.7	47.7	46.3	44.9	43.4	44.1
87.5°	33.6	32.1	28.8	26.6	25.0	22.2	21.7	19.3	18.1	16.9	15.6
90°	31.4	29.6	27.2	24.8	22.4	20.1	17.2	13.9	10.6	7.3	4.0
92.5°	30.3	28.5	26.1	23.7	21.3	18.9	17.7	17.5	17.3	17.1	16.9
95°	31.4	29.6	29.2	29.0	28.7	28.4	33.3	43.5	53.7	63.8	73.9
97.5°	35.7	35.5	68.8	102.2	135.5	168.9	182.4	176.1	169.7	163.4	157.0
100°	54.1	59.2	100.4	141.6	182.9	224.1	242.0	236.7	231.3	226.0	220.5
102.5°	230.2	285.1	290.4	295.9	301.2	306.6	307.3	303.4	299.4	295.5	291.5
105°	422.2	419.5	418.0	416.6	415.1	413.6	412.0	410.2	408.3	406.5	404.7
107.5°	524.4	523.1	521.0	519.1	517.0	515.0	513.5	512.6	511.8	510.9	509.9
110°	593.6	593.0	591.2	589.4	587.6	585.9	584.5	583.6	582.7	581.8	580.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	660.7	660.8	660.0	659.2	658.3	657.5	656.2	654.6	653.0	651.4	649.8
115°	759.0	758.4	758.8	759.0	759.3	759.6	759.3	758.4	757.5	756.6	755.7
117.5°	859.4	859.5	858.9	858.3	857.6	856.9	856.0	854.8	853.6	852.4	851.2
120°	920.4	919.8	920.1	920.4	920.7	921.0	920.5	919.4	918.2	916.9	915.8
122.5°	981.5	981.1	980.7	980.3	979.9	979.5	978.9	978.1	977.4	976.7	976.0
125°	1066.0	1065.1	1065.6	1066.2	1066.8	1067.4	1067.1	1066.0	1064.7	1063.5	1062.4
127.5°	1151.5	1151.6	1150.2	1148.9	1147.5	1146.1	1145.3	1145.0	1144.7	1144.4	1144.1
130°	1202.5	1202.2	1201.3	1200.4	1199.5	1198.6	1198.0	1197.7	1197.4	1197.1	1196.9
132.5°	1253.0	1252.8	1251.6	1250.4	1249.4	1248.2	1247.4	1246.9	1246.3	1245.7	1245.2
135°	1322.5	1321.9	1320.7	1319.5	1318.3	1317.1	1316.6	1317.0	1317.2	1317.5	1317.9
137.5°	1389.2	1388.6	1387.2	1386.0	1384.6	1383.3	1382.6	1382.5	1382.3	1382.2	1382.2
140°	1430.4	1429.4	1428.9	1428.3	1427.6	1427.1	1426.5	1425.8	1425.3	1424.7	1424.1
142.5°	1468.8	1468.2	1467.8	1467.5	1467.1	1466.8	1466.1	1465.0	1463.9	1462.8	1461.7
145°	1523.8	1523.6	1523.6	1523.6	1523.6	1523.6	1523.1	1522.2	1521.3	1520.5	1519.6
147.5°	1572.0	1571.7	1572.0	1572.4	1572.6	1572.9	1572.3	1570.6	1568.9	1567.2	1565.6
150°	1602.9	1602.9	1603.2	1603.6	1603.8	1604.1	1603.7	1602.5	1601.2	1600.1	1598.9
152.5°	1629.2	1628.7	1629.2	1629.8	1630.3	1630.9	1630.7	1629.7	1628.8	1627.8	1626.8
155°	1664.6	1663.4	1664.4	1665.3	1666.2	1667.1	1667.3	1667.1	1666.7	1666.4	1666.2
157.5°	1695.4	1693.8	1694.9	1695.9	1696.8	1697.9	1698.5	1698.7	1698.9	1699.1	1699.2
160°	1715.0	1713.2	1713.5	1713.8	1714.0	1714.4	1715.0	1715.9	1716.8	1717.7	1718.6
162.5°	1731.1	1729.3	1729.7	1729.9	1730.2	1730.5	1731.3	1732.4	1733.5	1734.6	1735.8
165°	1753.2	1750.9	1750.9	1750.9	1750.9	1750.9	1751.6	1753.1	1754.6	1756.0	1757.6
167.5°	1769.6	1767.0	1767.2	1767.4	1767.5	1767.7	1768.5	1770.1	1771.7	1773.3	1774.8
170°	1780.1	1777.7	1777.4	1777.2	1776.8	1776.6	1777.3	1779.1	1780.8	1782.7	1784.5
172.5°	1786.5	1784.2	1783.9	1783.6	1783.3	1783.0	1783.8	1785.6	1787.3	1789.1	1790.9
175°	1793.9	1791.2	1790.9	1790.6	1790.3	1790.0	1790.7	1792.5	1794.3	1796.1	1797.9
177.5°	1797.7	1795.7	1795.3	1794.8	1794.3	1793.9	1794.5	1796.1	1797.8	1799.5	1801.2
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1730.0	1735.7	1743.1	1755.7	1760.2	1765.9	1773.9	1773.3	1775.6	1784.1	1802.4
5°	1736.4	1758.5	1779.9	1805.5	1832.6	1850.4	1874.6	1889.5	1904.5	1923.7	1956.4
7.5°	1739.0	1774.1	1813.2	1858.2	1898.2	1944.4	1980.4	2014.3	2044.9	2085.4	2124.5
10°	1735.0	1782.0	1832.6	1889.5	1950.0	2001.3	2047.5	2100.2	2145.1	2194.2	2238.4
12.5°	1727.6	1784.3	1851.9	1915.8	1986.5	2062.3	2120.0	2173.2	2232.8	2289.4	2357.4
15°	1710.8	1788.4	1867.4	1951.4	2046.1	2133.7	2217.1	2286.1	2350.2	2434.9	2523.9
17.5°	1689.4	1773.2	1872.9	1974.5	2073.5	2173.6	2276.7	2380.5	2461.4	2566.6	2636.3
20°	1669.6	1766.4	1868.8	1989.9	2088.8	2213.5	2316.0	2416.4	2527.5	2632.1	2715.3
22.5°	1641.6	1747.6	1856.4	1976.8	2107.1	2231.7	2350.2	2459.1	2570.2	2684.0	2784.9
25°	1606.1	1702.3	1831.1	1967.8	2097.4	2232.7	2368.7	2505.4	2624.9	2745.3	2839.3
27.5°	1545.8	1667.1	1787.2	1928.2	2072.2	2225.3	2370.7	2513.7	2639.1	2738.0	2796.2
30°	1515.0	1620.4	1750.7	1892.4	2048.3	2212.8	2364.4	2504.6	2621.5	2700.5	2723.9
32.5°	1469.5	1578.2	1705.7	1852.5	2017.5	2186.6	2344.5	2476.7	2574.1	2615.6	2587.2
35°	1401.9	1500.1	1629.0	1779.1	1950.7	2130.8	2286.8	2398.5	2448.4	2409.2	2311.7
37.5°	1320.7	1418.1	1547.5	1695.1	1872.6	2055.7	2196.6	2277.1	2260.6	2163.2	2017.9
40°	1263.7	1354.9	1478.0	1637.4	1810.5	1994.2	2118.1	2161.5	2115.9	1976.4	1821.9
42.5°	1200.5	1289.3	1413.1	1566.8	1750.2	1919.6	2027.5	2031.0	1954.7	1787.9	1632.8
45°	1104.2	1188.9	1305.7	1465.9	1635.4	1794.8	1866.0	1831.1	1690.1	1529.3	1373.3
47.5°	1009.2	1082.7	1197.7	1349.9	1510.7	1645.0	1680.3	1617.6	1467.3	1311.2	1166.6
50°	939.8	1013.8	1122.0	1267.3	1422.5	1538.6	1555.6	1472.3	1324.9	1167.6	1054.4
52.5°	873.2	946.6	1050.9	1185.3	1327.4	1432.0	1432.6	1336.2	1189.4	1049.1	943.9
55°	775.3	841.5	935.5	1055.8	1182.6	1264.4	1244.5	1144.8	1017.4	895.6	803.8
57.5°	681.1	738.7	825.3	925.7	1037.3	1104.8	1071.7	975.8	862.0	758.8	689.2
60°	620.1	674.9	748.9	843.6	937.6	990.3	959.0	872.2	767.5	684.2	623.7
62.5°	560.9	607.2	678.3	760.5	847.7	886.6	858.7	773.0	682.6	607.3	558.2
65°	477.0	514.8	571.7	642.2	705.5	739.0	715.5	635.8	566.7	512.6	473.4
67.5°	398.7	428.2	471.3	527.8	581.7	599.8	578.4	522.9	464.3	421.1	393.4
70°	344.6	372.4	408.7	452.1	499.1	518.3	497.0	452.8	405.1	365.2	338.1
72.5°	297.3	318.8	349.5	386.6	423.3	442.6	428.0	385.6	345.3	315.7	292.6
75°	226.4	245.0	266.3	292.6	321.1	333.9	321.1	291.9	264.1	242.1	225.7
77.5°	164.6	174.6	191.1	210.7	228.5	238.4	227.3	207.5	190.6	175.4	167.3
80°	125.3	132.4	143.8	159.4	171.6	180.8	173.7	157.3	143.8	133.8	130.3
82.5°	91.1	95.9	103.3	115.0	123.1	127.9	124.8	112.9	107.4	98.5	95.0
85°	44.9	47.7	52.7	56.3	63.4	64.1	64.8	59.8	54.8	52.7	49.8
87.5°	16.9	18.1	20.4	22.8	25.7	26.7	26.6	27.1	25.3	25.1	23.2
90°	7.3	10.6	13.9	17.2	20.1	22.4	24.8	27.2	29.6	31.4	33.2
92.5°	17.1	17.3	17.5	17.7	18.9	21.3	23.7	26.1	28.5	30.3	32.1
95°	63.8	53.7	43.5	33.3	28.4	28.7	29.0	29.2	29.6	31.4	33.2
97.5°	163.4	169.7	176.1	182.4	168.9	135.5	102.2	68.8	35.5	35.7	35.8
100°	226.0	231.3	236.7	242.0	224.1	182.9	141.6	100.4	59.2	54.1	49.0
102.5°	295.5	299.4	303.4	307.3	306.6	301.2	295.9	290.4	285.1	230.2	175.5
105°	406.5	408.3	410.2	412.0	413.6	415.1	416.6	418.0	419.5	422.2	424.9
107.5°	510.9	511.8	512.6	513.5	515.0	517.0	519.1	521.0	523.1	524.4	525.8
110°	581.8	582.7	583.6	584.5	585.9	587.6	589.4	591.2	593.0	593.6	594.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	651.4	653.0	654.6	656.2	657.5	658.3	659.2	660.0	660.8	660.7	660.6
115°	756.6	757.5	758.4	759.3	759.6	759.3	759.0	758.8	758.4	759.0	759.6
117.5°	852.4	853.6	854.8	856.0	856.9	857.6	858.3	858.9	859.5	859.4	859.3
120°	916.9	918.2	919.4	920.5	921.0	920.7	920.4	920.1	919.8	920.4	921.0
122.5°	976.7	977.4	978.1	978.9	979.5	979.9	980.3	980.7	981.1	981.5	981.9
125°	1063.5	1064.7	1066.0	1067.1	1067.4	1066.8	1066.2	1065.6	1065.1	1066.0	1066.8
127.5°	1144.4	1144.7	1145.0	1145.3	1146.1	1147.5	1148.9	1150.2	1151.6	1151.5	1151.3
130°	1197.1	1197.4	1197.7	1198.0	1198.6	1199.5	1200.4	1201.3	1202.2	1202.5	1202.8
132.5°	1245.7	1246.3	1246.9	1247.4	1248.2	1249.4	1250.4	1251.6	1252.8	1253.0	1253.4
135°	1317.5	1317.2	1317.0	1316.6	1317.1	1318.3	1319.5	1320.7	1321.9	1322.5	1323.0
137.5°	1382.2	1382.3	1382.5	1382.6	1383.3	1384.6	1386.0	1387.2	1388.6	1389.2	1389.9
140°	1424.7	1425.3	1425.8	1426.5	1427.1	1427.6	1428.3	1428.9	1429.4	1430.4	1431.3
142.5°	1462.8	1463.9	1465.0	1466.1	1466.8	1467.1	1467.5	1467.8	1468.2	1468.8	1469.5
145°	1520.5	1521.3	1522.2	1523.1	1523.6	1523.6	1523.6	1523.6	1523.6	1523.8	1524.2
147.5°	1567.2	1568.9	1570.6	1572.3	1572.9	1572.6	1572.4	1572.0	1571.7	1572.0	1572.2
150°	1600.1	1601.2	1602.5	1603.7	1604.1	1603.8	1603.6	1603.2	1602.9	1602.9	1602.9
152.5°	1627.8	1628.8	1629.7	1630.7	1630.9	1630.3	1629.8	1629.2	1628.7	1629.2	1629.7
155°	1666.4	1666.7	1667.1	1667.3	1667.1	1666.2	1665.3	1664.4	1663.4	1664.6	1665.8
157.5°	1699.1	1698.9	1698.7	1698.5	1697.9	1696.8	1695.9	1694.9	1693.8	1695.4	1696.9
160°	1717.7	1716.8	1715.9	1715.0	1714.4	1714.0	1713.8	1713.5	1713.2	1715.0	1716.8
162.5°	1734.6	1733.5	1732.4	1731.3	1730.5	1730.2	1729.9	1729.7	1729.3	1731.1	1733.0
165°	1756.0	1754.6	1753.1	1751.6	1750.9	1750.9	1750.9	1750.9	1750.9	1753.2	1755.6
167.5°	1773.3	1771.7	1770.1	1768.5	1767.7	1767.5	1767.4	1767.2	1767.0	1769.6	1772.3
170°	1782.7	1780.8	1779.1	1777.3	1776.6	1776.8	1777.2	1777.4	1777.7	1780.1	1782.5
172.5°	1789.1	1787.3	1785.6	1783.8	1783.0	1783.3	1783.6	1783.9	1784.2	1786.5	1789.0
175°	1796.1	1794.3	1792.5	1790.7	1790.0	1790.3	1790.6	1790.9	1791.2	1793.9	1796.5
177.5°	1799.5	1797.8	1796.1	1794.5	1793.9	1794.3	1794.8	1795.3	1795.7	1797.7	1799.6
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1811.5	1812.7	1817.8	1821.8	1822.9	1828.5	1829.2
5°	1970.7	1982.8	2006.3	2008.4	2012.0	2030.5	2016.2
7.5°	2157.2	2188.0	2208.5	2226.6	2233.1	2241.2	2239.5
10°	2276.8	2322.4	2345.2	2381.5	2382.9	2392.2	2386.5
12.5°	2397.0	2450.0	2491.5	2498.2	2528.7	2533.4	2541.4
15°	2567.3	2623.5	2681.2	2701.9	2743.9	2753.9	2769.5
17.5°	2727.4	2784.9	2825.3	2878.7	2895.9	2919.0	2903.3
20°	2815.0	2877.7	2929.0	2971.0	2988.7	3001.6	3000.2
22.5°	2868.0	2931.2	2972.8	3004.6	3021.2	3026.6	3026.4
25°	2901.2	2937.5	2950.3	2962.4	2943.9	2937.5	2940.3
27.5°	2809.0	2799.5	2766.1	2722.2	2676.6	2640.4	2620.8
30°	2681.9	2626.4	2575.9	2487.5	2442.0	2414.9	2390.8
32.5°	2502.0	2414.0	2316.7	2235.8	2184.0	2143.9	2137.9
35°	2193.5	2061.1	1942.2	1843.3	1792.0	1748.6	1738.6
37.5°	1864.9	1727.3	1620.2	1533.1	1478.0	1447.4	1418.8
40°	1646.7	1528.6	1423.2	1349.2	1307.2	1285.0	1267.3
42.5°	1478.7	1370.8	1266.0	1209.6	1171.6	1158.1	1147.6
45°	1246.6	1146.2	1073.6	1030.9	1008.8	986.1	975.4
47.5°	1060.8	979.1	931.2	894.9	871.3	857.7	851.0
50°	955.5	888.5	845.8	818.1	796.7	786.0	780.3
52.5°	862.0	807.1	771.2	749.1	734.6	726.7	724.5
55°	742.5	700.5	677.8	658.5	647.9	640.8	637.9
57.5°	645.4	613.1	594.6	578.8	574.7	568.7	566.7
60°	581.7	556.8	541.1	530.4	526.8	519.7	521.1
62.5°	525.3	504.9	491.5	485.4	480.7	474.7	476.7
65°	444.3	429.3	422.2	416.5	410.8	407.2	410.1
67.5°	372.7	362.6	352.8	349.6	346.7	346.2	343.1
70°	326.1	317.5	309.0	306.8	306.8	304.0	303.3
72.5°	281.1	274.8	269.1	267.5	265.3	266.4	263.4
75°	217.1	212.1	210.0	207.9	207.1	207.1	205.0
77.5°	160.5	156.8	153.4	153.4	150.8	149.8	149.5
80°	121.7	120.3	117.4	117.4	116.0	116.7	115.3
82.5°	91.6	89.5	89.0	87.8	85.9	86.0	84.6
85°	49.1	47.0	46.3	44.1	42.7	44.1	42.7
87.5°	24.1	23.9	23.5	22.6	22.0	22.2	20.6
90°	35.0	36.7	38.0	38.5	39.1	39.8	40.3
92.5°	33.9	35.7	36.6	36.7	36.9	37.0	37.1
95°	35.0	36.7	37.8	38.1	38.4	38.7	39.0
97.5°	36.0	36.2	36.5	36.7	37.1	37.4	37.6
100°	44.0	38.9	36.5	36.7	37.1	37.4	37.6
102.5°	120.6	65.9	38.5	38.5	38.6	38.7	38.7
105°	427.7	430.3	426.2	415.5	404.7	394.0	383.3
107.5°	527.1	528.3	529.6	530.7	531.8	533.0	534.1
110°	594.9	595.4	596.2	597.1	598.0	598.9	599.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	660.4	660.3	660.8	662.0	663.1	664.2	665.4
115°	760.2	760.8	761.2	761.2	761.2	761.2	761.2
117.5°	859.2	859.1	859.0	858.8	858.7	858.6	858.4
120°	921.6	922.2	922.2	921.6	921.0	920.4	919.8
122.5°	982.2	982.6	982.4	981.9	981.2	980.6	980.1
125°	1067.7	1068.6	1069.3	1069.5	1069.8	1070.1	1070.4
127.5°	1151.1	1150.9	1150.7	1150.5	1150.2	1150.0	1149.8
130°	1203.1	1203.4	1203.5	1203.5	1203.5	1203.5	1203.5
132.5°	1253.7	1253.9	1254.0	1253.7	1253.5	1253.3	1253.0
135°	1323.7	1324.3	1324.9	1325.4	1326.1	1326.7	1327.2
137.5°	1390.5	1391.2	1391.4	1391.2	1391.1	1390.9	1390.7
140°	1432.2	1433.1	1433.6	1434.0	1434.2	1434.5	1434.9
142.5°	1470.2	1470.8	1471.1	1471.2	1471.3	1471.3	1471.4
145°	1524.5	1524.7	1525.3	1525.8	1526.4	1527.1	1527.6
147.5°	1572.4	1572.7	1573.0	1573.2	1573.5	1573.9	1574.1
150°	1602.9	1602.9	1603.1	1603.4	1603.7	1604.0	1604.3
152.5°	1630.1	1630.7	1630.8	1630.6	1630.4	1630.2	1630.0
155°	1667.1	1668.2	1668.4	1667.5	1666.6	1665.7	1664.8
157.5°	1698.5	1700.0	1700.0	1698.5	1696.9	1695.4	1693.8
160°	1718.6	1720.4	1720.4	1718.6	1716.8	1715.0	1713.2
162.5°	1734.7	1736.5	1736.3	1734.4	1732.3	1730.3	1728.2
165°	1758.0	1760.4	1760.2	1757.6	1754.9	1752.2	1749.5
167.5°	1774.9	1777.5	1777.4	1774.3	1771.4	1768.4	1765.4
170°	1784.9	1787.3	1787.0	1784.0	1781.0	1778.1	1775.0
172.5°	1791.4	1793.8	1793.3	1790.1	1786.9	1783.7	1780.4
175°	1799.3	1802.0	1801.5	1797.9	1794.3	1790.7	1787.2
177.5°	1801.5	1803.4	1803.0	1800.1	1797.2	1794.3	1791.4
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9

(END OF REPORT)