

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: P331610-940

Luminaire Tested: **S122DIW-S1005D1440U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331610-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S1005D1440U940-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8383.6 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

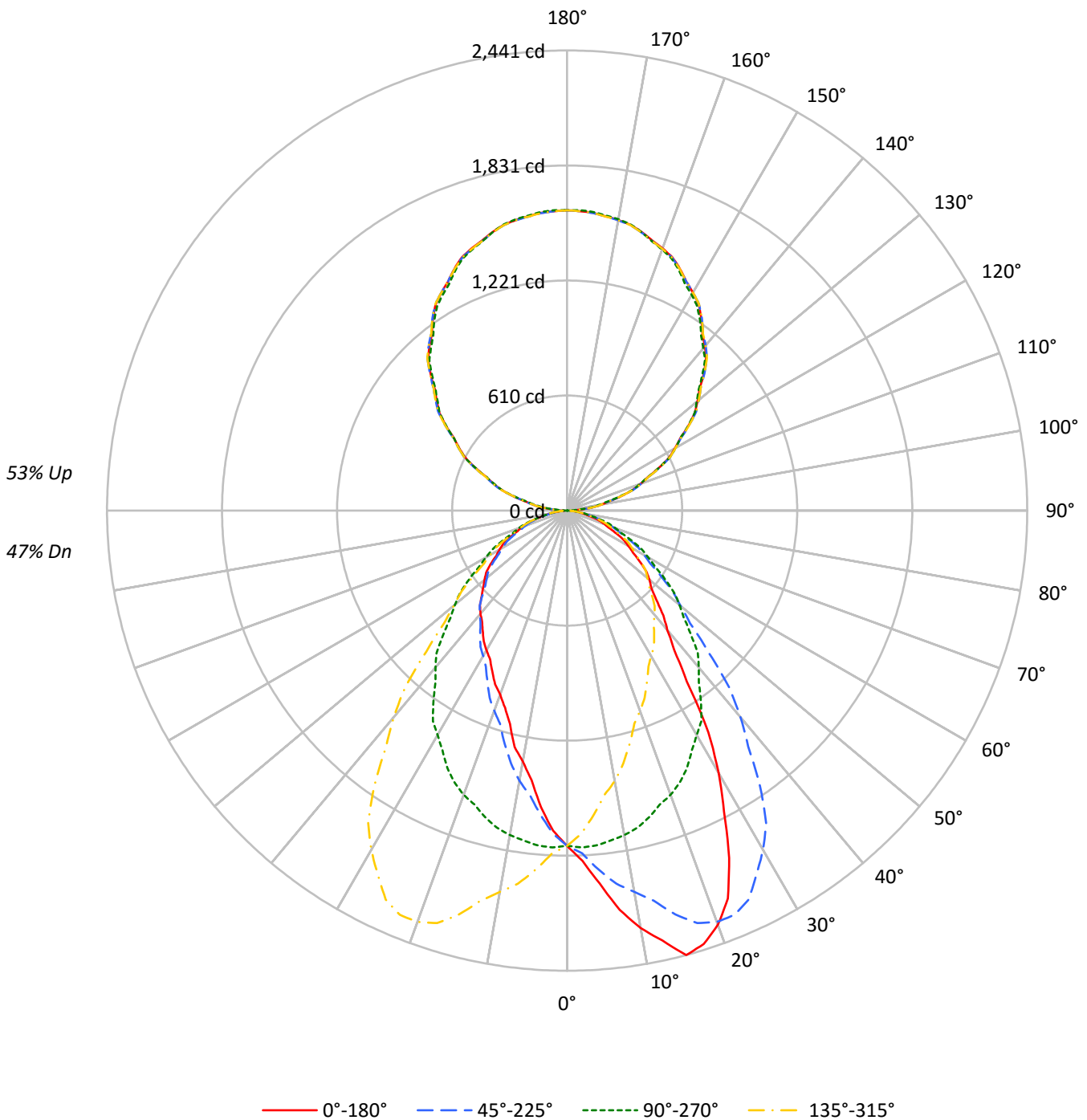
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	98	93	90	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	43	41	39	35
3	82	73	65	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	64	57	51	69	60	53	48	51	46	42	42	38	36	34	32	30	26
5	69	58	50	44	63	53	47	41	45	40	36	38	34	31	31	28	26	23
6	64	52	44	38	58	48	41	36	41	36	32	35	31	27	28	26	23	20
7	59	47	39	34	54	44	37	32	37	32	28	32	27	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16	14

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

	0°	90°	180°	270°
0°	28709	28709	28709	28709
5°	32185	28896	25606	28896
10°	36882	28658	22161	28658
15°	40802	28134	19579	28134
20°	40180	27569	17849	27569
25°	36230	26820	16751	26820
30°	29940	25620	15951	25620
35°	21821	24366	15382	24366
40°	17428	22885	15066	22885
45°	15230	21174	14636	21174
50°	14315	19515	14350	19515
55°	13196	17833	13965	17833
60°	12093	16043	13372	16043
65°	11018	14437	12791	14437
70°	10003	12873	11939	12873
75°	8865	11123	10574	11123
80°	7624	9214	8517	9214
85°	6836	6836	5076	6836



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.3	2.0
10°-20°	492.3	5.9
20°-30°	714.5	8.5
30°-40°	754.0	9.0
40°-50°	667.6	8.0
50°-60°	532.7	6.4
60°-70°	362.1	4.3
70°-80°	185.6	2.2
80°-90°	51.1	0.6
90°-100°	100.9	1.2
100°-110°	313.5	3.7
110°-120°	535.9	6.4
120°-130°	704.7	8.4
130°-140°	791.0	9.4
140°-150°	775.6	9.3
150°-160°	650.5	7.8
160°-170°	431.5	5.1
170°-180°	150.8	1.8
0°-30°	1376.1	16.4
0°-40°	2130.1	25.4
0°-60°	3330.4	39.7
0°-90°	3929.2	46.9
90°-120°	950.3	11.3
90°-150°	3221.6	38.4
90°-180°	4454.0	53.1
0°-180°	8383.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1778	1778	1778	1778	1778	
5°	1986	1783	1580	1783	1986	198
15°	2441	1683	1171	1683	2441	674
25°	2034	1506	940	1506	2034	919
35°	1107	1236	780	1236	1107	720
45°	667	927	641	927	667	524
55°	469	634	496	634	469	420
65°	288	378	335	378	288	287
75°	142	178	170	178	142	152
85°	37	37	27	37	37	42
90°	46	1	46	1	46	22
95°	83	70	83	70	83	93
105°	298	289	298	289	298	314
115°	538	538	538	538	538	531
125°	785	782	785	782	785	700
135°	1024	1012	1024	1012	1024	789
145°	1242	1229	1242	1229	1242	776
155°	1416	1405	1416	1405	1416	651
165°	1530	1528	1530	1528	1530	431
175°	1585	1590	1585	1590	1585	151
180°	1593	1593	1593	1593	1593	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1860.1	1860.6	1861.7	1853.0	1851.9	1851.9	1844.2	1837.7	1830.1	1819.6	1820.8
5°	1985.8	1993.3	1996.1	1987.9	1975.6	1974.2	1962.7	1943.5	1925.7	1911.4	1901.1
7.5°	2135.9	2138.9	2132.3	2121.5	2112.3	2095.9	2074.3	2053.1	2023.5	1996.3	1976.0
10°	2249.6	2253.7	2242.1	2226.4	2213.4	2194.3	2162.8	2130.7	2091.8	2054.2	2024.1
12.5°	2336.0	2346.1	2331.2	2329.1	2306.9	2280.6	2243.2	2227.0	2172.1	2119.8	2087.6
15°	2441.0	2440.3	2441.7	2428.7	2412.3	2408.2	2368.6	2325.5	2248.3	2217.5	2164.2
17.5°	2410.7	2421.0	2425.8	2425.6	2425.3	2422.7	2409.9	2382.7	2344.0	2294.2	2232.7
20°	2338.5	2352.2	2354.2	2369.9	2378.8	2390.4	2395.2	2387.6	2363.7	2322.1	2268.8
22.5°	2227.0	2230.8	2237.2	2261.6	2280.9	2310.1	2325.2	2350.5	2341.4	2320.9	2276.4
25°	2033.7	2026.9	2050.8	2063.1	2107.5	2153.9	2187.5	2224.4	2257.2	2277.0	2264.0
27.5°	1801.6	1791.4	1827.2	1859.8	1896.0	1946.2	1998.4	2060.0	2111.3	2175.4	2197.4
30°	1605.9	1612.0	1646.2	1681.1	1735.7	1806.8	1865.5	1933.2	2006.3	2078.1	2128.0
32.5°	1394.9	1418.5	1440.1	1493.5	1541.7	1621.0	1707.0	1791.6	1882.8	1964.4	2041.7
35°	1107.1	1134.3	1164.5	1203.4	1271.0	1349.6	1433.7	1547.8	1672.2	1783.6	1875.2
37.5°	931.8	927.5	944.7	972.9	1027.6	1091.1	1187.8	1300.6	1447.0	1577.9	1707.0
40°	826.9	824.1	836.4	862.4	904.1	950.6	1035.3	1134.3	1270.3	1430.3	1584.0
42.5°	754.7	756.3	763.2	781.5	810.0	848.3	911.8	996.0	1120.6	1271.2	1436.5
45°	667.0	671.7	679.3	688.1	704.5	736.0	771.5	831.7	930.1	1055.8	1218.4
47.5°	603.8	604.0	611.6	619.4	629.1	646.8	675.8	713.5	783.0	885.4	1025.2
50°	569.9	565.2	570.6	576.8	587.0	599.3	618.4	654.0	700.4	783.1	900.0
52.5°	528.3	528.5	533.4	535.7	544.9	557.2	574.7	599.3	641.4	706.1	802.1
55°	468.8	472.2	474.9	479.0	487.2	496.1	509.8	526.2	559.0	607.5	678.6
57.5°	412.8	413.8	416.6	424.4	429.5	437.7	450.8	465.7	487.0	522.9	576.3
60°	374.5	374.5	380.0	383.3	390.2	398.4	408.7	423.0	442.1	471.5	514.6
62.5°	339.5	338.9	341.2	346.7	352.0	359.6	369.8	382.0	400.0	426.1	461.5
65°	288.4	287.0	291.1	292.5	297.9	305.5	313.7	326.6	341.0	360.2	391.6
67.5°	239.2	240.9	243.0	245.6	248.6	256.5	262.0	271.2	283.3	299.2	320.5
70°	211.9	211.9	211.9	213.9	218.0	222.1	227.6	235.1	246.7	260.4	279.5
72.5°	181.2	183.4	185.6	184.4	189.6	192.0	198.6	202.9	213.9	222.7	239.6
75°	142.1	142.1	142.1	145.5	147.6	149.6	153.7	157.8	163.4	174.2	183.2
77.5°	106.0	105.8	106.5	107.3	109.5	111.9	113.2	116.8	121.9	127.0	134.5
80°	82.0	83.4	84.1	85.4	85.4	86.8	87.5	92.3	95.7	99.1	103.9
82.5°	63.4	63.7	63.8	64.1	64.6	65.5	67.2	68.8	70.0	72.9	76.5
85°	36.9	36.2	36.2	37.5	36.9	36.9	38.3	39.6	39.6	40.3	42.4
87.5°	23.4	23.3	23.8	23.2	23.1	23.7	23.8	23.4	24.1	24.7	24.0
90°	45.7	45.4	45.1	44.9	44.5	44.7	45.3	45.8	46.5	47.1	40.5
92.5°	43.5	43.5	43.4	43.3	43.3	43.2	43.1	43.0	42.9	42.7	41.2
95°	83.4	83.9	84.5	85.2	85.7	86.1	86.1	86.1	86.1	86.1	85.4
97.5°	144.4	144.5	144.5	144.5	144.6	144.6	144.6	144.6	144.6	144.6	143.5
100°	184.1	184.5	184.8	185.0	185.4	185.5	185.5	185.5	185.5	185.5	184.6
102.5°	229.3	229.6	230.0	230.2	230.5	230.6	230.3	230.1	229.9	229.6	228.5
105°	298.5	298.5	298.5	298.5	298.5	298.1	297.6	296.9	296.3	295.8	295.2
107.5°	363.5	364.9	366.2	367.7	369.0	369.5	369.3	369.1	368.8	368.6	368.6
110°	414.0	414.9	415.8	416.7	417.6	418.1	418.1	418.1	418.1	418.1	418.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	462.4	463.1	463.8	464.4	465.0	465.7	466.5	467.2	467.9	468.6	468.9
115°	537.7	538.6	539.5	540.4	541.3	541.9	542.2	542.5	542.8	543.1	543.7
117.5°	609.5	610.4	611.3	612.2	613.1	613.9	614.7	615.4	616.1	616.8	618.4
120°	660.0	660.9	661.8	662.7	663.6	664.1	664.1	664.1	664.1	664.1	666.5
122.5°	709.5	710.2	710.9	711.5	712.1	712.8	713.5	714.3	715.0	715.7	717.4
125°	785.1	785.4	785.7	786.0	786.3	786.8	787.7	788.6	789.5	790.4	791.4
127.5°	853.9	854.9	855.8	856.8	857.7	858.7	859.8	860.9	861.9	863.1	864.2
130°	903.4	904.6	905.8	907.0	908.1	909.0	909.6	910.3	910.9	911.4	912.0
132.5°	950.7	951.6	952.6	953.6	954.5	955.6	957.0	958.3	959.6	960.9	960.8
135°	1024.4	1025.3	1026.2	1027.1	1028.0	1028.6	1028.9	1029.1	1029.5	1029.7	1029.1
137.5°	1091.0	1092.3	1093.4	1094.7	1095.8	1096.5	1096.8	1097.0	1097.3	1097.5	1096.7
140°	1137.3	1138.4	1139.7	1140.9	1142.1	1142.6	1142.6	1142.6	1142.6	1142.6	1141.2
142.5°	1179.2	1180.4	1181.6	1182.9	1184.0	1184.5	1184.3	1184.0	1183.7	1183.6	1182.5
145°	1242.2	1243.3	1244.6	1245.7	1246.9	1247.3	1247.1	1246.8	1246.4	1246.2	1244.4
147.5°	1298.3	1299.5	1300.6	1301.7	1302.9	1303.1	1302.4	1301.8	1301.2	1300.5	1299.3
150°	1334.9	1335.8	1336.7	1337.6	1338.5	1338.5	1337.6	1336.7	1335.8	1334.9	1333.7
152.5°	1369.3	1370.5	1371.5	1372.7	1373.9	1373.9	1372.7	1371.5	1370.5	1369.3	1367.9
155°	1415.6	1416.5	1417.4	1418.3	1419.2	1418.8	1417.4	1415.9	1414.3	1412.8	1411.9
157.5°	1455.4	1456.8	1458.2	1459.6	1461.1	1460.8	1458.7	1456.7	1454.6	1452.7	1452.2
160°	1480.1	1481.3	1482.5	1483.6	1484.9	1484.5	1482.7	1481.0	1479.2	1477.4	1477.1
162.5°	1501.6	1503.1	1504.5	1505.9	1507.3	1507.0	1505.0	1503.0	1500.9	1498.9	1498.6
165°	1529.8	1531.3	1532.9	1534.3	1535.8	1535.5	1533.4	1531.3	1529.2	1527.1	1527.1
167.5°	1552.9	1554.5	1556.0	1557.6	1559.2	1558.9	1556.8	1554.7	1552.6	1550.5	1550.6
170°	1564.8	1566.6	1568.3	1570.1	1571.9	1571.8	1569.7	1567.6	1565.5	1563.4	1563.7
172.5°	1574.5	1576.3	1578.1	1579.8	1581.6	1581.4	1579.4	1577.3	1575.2	1573.1	1573.4
175°	1584.9	1586.7	1588.5	1590.3	1592.1	1592.0	1589.8	1587.8	1585.7	1583.6	1584.2
177.5°	1589.7	1591.2	1592.7	1594.1	1595.5	1595.5	1594.1	1592.7	1591.2	1589.7	1590.3
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1824.6	1820.2	1817.5	1807.7	1798.8	1790.1	1787.4	1788.5	1776.5	1765.0	1760.1
5°	1895.7	1882.0	1869.0	1850.6	1828.7	1804.7	1792.4	1782.9	1759.0	1733.0	1718.0
7.5°	1959.4	1939.8	1914.8	1880.1	1848.2	1810.6	1786.7	1765.5	1730.5	1693.9	1671.5
10°	1998.1	1971.5	1939.4	1897.0	1858.1	1812.3	1780.1	1748.0	1707.0	1663.3	1635.9
12.5°	2031.5	1995.6	1964.0	1909.6	1863.5	1806.2	1768.2	1722.9	1679.7	1627.7	1601.0
15°	2110.9	2044.6	1984.5	1923.0	1866.3	1786.3	1743.9	1683.1	1626.4	1562.2	1531.4
17.5°	2172.3	2097.7	2003.0	1924.9	1858.8	1770.2	1708.0	1635.1	1568.1	1494.7	1452.9
20°	2207.3	2121.8	2020.0	1927.1	1847.8	1746.7	1679.0	1604.5	1526.0	1443.2	1398.2
22.5°	2228.0	2138.2	2037.6	1918.9	1826.0	1727.5	1642.4	1560.8	1481.1	1391.9	1344.6
25°	2234.6	2152.6	2046.0	1912.1	1798.6	1687.2	1584.7	1505.5	1409.1	1325.7	1256.7
27.5°	2202.1	2143.3	2040.8	1899.2	1767.0	1636.8	1522.5	1432.7	1331.1	1240.5	1171.2
30°	2162.1	2128.0	2028.2	1886.1	1741.9	1601.8	1476.0	1374.2	1273.1	1181.5	1110.4
32.5°	2100.4	2093.0	2005.3	1867.5	1715.1	1557.6	1427.5	1324.5	1212.5	1122.5	1054.7
35°	1979.1	2011.8	1956.5	1826.0	1664.6	1494.5	1353.7	1236.2	1120.1	1033.9	970.4
37.5°	1816.4	1897.8	1883.4	1765.1	1596.6	1425.9	1270.5	1147.6	1037.0	950.0	887.7
40°	1704.3	1808.2	1823.2	1718.7	1548.5	1372.9	1208.2	1085.8	977.9	898.7	835.7
42.5°	1584.0	1705.4	1746.7	1662.9	1496.0	1317.1	1152.4	1025.7	918.8	841.8	786.0
45°	1382.4	1543.0	1617.6	1569.7	1408.5	1225.3	1055.8	927.3	830.3	757.9	714.8
47.5°	1194.0	1369.5	1469.6	1452.7	1311.0	1129.6	962.1	838.7	744.3	686.5	648.0
50°	1060.6	1241.0	1361.9	1367.4	1241.0	1061.2	893.1	776.9	690.2	636.2	604.8
52.5°	944.7	1116.9	1248.8	1277.7	1162.8	990.2	831.3	715.8	639.4	589.8	561.6
55°	793.4	939.0	1085.2	1138.4	1046.2	882.3	735.3	633.5	561.7	527.5	502.9
57.5°	659.6	781.0	916.0	974.9	918.0	777.7	639.9	551.4	493.3	463.3	444.4
60°	589.1	684.7	805.0	875.4	826.2	701.2	580.9	496.8	449.0	422.3	404.6
62.5°	523.4	608.2	709.9	774.3	747.4	629.5	521.8	447.6	406.4	381.3	368.5
65°	431.9	498.8	577.5	636.9	619.1	529.6	441.5	377.9	345.1	325.3	315.0
67.5°	355.6	404.0	458.5	510.6	496.2	432.8	362.0	312.5	288.1	271.0	264.8
70°	307.6	344.4	393.0	434.6	423.0	371.0	315.0	272.7	251.5	237.1	231.0
72.5°	261.6	291.9	329.0	363.0	355.2	312.0	265.3	233.3	217.0	203.8	198.8
75°	197.5	220.7	243.3	265.8	263.8	230.3	203.0	178.3	165.4	155.2	153.1
77.5°	145.8	158.8	174.2	187.5	183.8	164.7	143.2	129.1	119.6	112.7	111.6
80°	111.4	118.9	129.8	139.4	134.6	126.4	109.3	99.1	92.3	85.4	82.7
82.5°	80.8	88.3	94.9	100.0	96.4	88.7	78.2	71.2	67.1	62.4	61.3
85°	42.4	46.5	49.2	50.6	49.2	44.4	39.6	36.9	33.5	31.5	30.8
87.5°	23.2	21.8	20.5	20.6	18.3	17.6	14.6	12.3	12.5	12.7	12.2
90°	33.9	27.4	20.8	15.7	12.1	8.5	4.9	1.3	4.9	8.5	12.1
92.5°	39.7	38.1	36.6	34.4	31.8	29.2	26.6	23.9	26.6	29.2	31.8
95°	84.8	84.3	83.6	81.9	78.8	75.9	72.9	69.9	72.9	75.9	78.8
97.5°	142.4	141.2	140.1	138.2	135.6	133.0	130.4	127.7	130.4	133.0	135.6
100°	183.7	182.8	181.9	180.3	177.9	175.5	173.1	170.8	173.1	175.5	177.9
102.5°	227.3	226.2	225.1	223.6	221.6	219.7	217.8	215.9	217.8	219.7	221.6
105°	294.5	294.0	293.4	292.6	291.7	290.8	289.9	289.0	289.9	290.8	291.7
107.5°	368.6	368.6	368.6	367.9	366.7	365.3	364.0	362.7	364.0	365.3	366.7
110°	418.1	418.1	418.1	417.1	415.4	413.6	411.8	410.0	411.8	413.6	415.4





TEST NUMBER: P331610-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	469.1	469.3	469.6	468.8	467.0	465.2	463.4	461.6	463.4	465.2	467.0
115°	544.3	544.9	545.5	544.9	543.1	541.3	539.5	537.7	539.5	541.3	543.1
117.5°	620.1	621.8	623.5	623.1	620.7	618.3	615.9	613.6	615.9	618.3	620.7
120°	668.9	671.3	673.7	673.7	671.3	668.9	666.5	664.1	666.5	668.9	671.3
122.5°	719.1	720.8	722.4	721.8	718.9	716.0	713.2	710.3	713.2	716.0	718.9
125°	792.3	793.2	794.1	793.2	790.4	787.7	785.1	782.4	785.1	787.7	790.4
127.5°	865.2	866.3	867.4	866.2	862.8	859.3	856.0	852.6	856.0	859.3	862.8
130°	912.7	913.2	913.8	912.2	908.3	904.5	900.5	896.6	900.5	904.5	908.3
132.5°	960.6	960.6	960.5	958.8	955.6	952.4	949.3	946.1	949.3	952.4	955.6
135°	1028.6	1028.0	1027.3	1025.4	1022.1	1018.9	1015.6	1012.3	1015.6	1018.9	1022.1
137.5°	1095.9	1095.2	1094.4	1092.6	1089.9	1087.3	1084.6	1081.9	1084.6	1087.3	1089.9
140°	1139.7	1138.2	1136.7	1134.6	1131.9	1129.3	1126.5	1123.8	1126.5	1129.3	1131.9
142.5°	1181.5	1180.4	1179.5	1177.6	1174.9	1172.2	1169.6	1166.9	1169.6	1172.2	1174.9
145°	1242.6	1240.8	1239.0	1237.1	1234.9	1232.9	1230.8	1228.7	1230.8	1232.9	1234.9
147.5°	1298.1	1296.9	1295.7	1293.9	1291.4	1288.8	1286.3	1283.8	1286.3	1288.8	1291.4
150°	1332.5	1331.3	1330.1	1328.6	1326.9	1325.1	1323.2	1321.4	1323.2	1325.1	1326.9
152.5°	1366.5	1365.0	1363.6	1362.0	1360.1	1358.3	1356.6	1354.8	1356.6	1358.3	1360.1
155°	1411.0	1410.2	1409.3	1408.4	1407.5	1406.6	1405.7	1404.8	1405.7	1406.6	1407.5
157.5°	1451.6	1451.1	1450.5	1449.9	1449.4	1448.8	1448.1	1447.5	1448.1	1448.8	1449.4
160°	1476.8	1476.5	1476.2	1475.8	1475.2	1474.5	1474.0	1473.4	1474.0	1474.5	1475.2
162.5°	1498.3	1498.0	1497.7	1497.5	1497.4	1497.3	1497.2	1497.0	1497.2	1497.3	1497.4
165°	1527.1	1527.1	1527.1	1527.3	1527.6	1527.9	1528.2	1528.5	1528.2	1527.9	1527.6
167.5°	1550.7	1550.7	1550.8	1551.2	1552.1	1553.0	1553.9	1554.8	1553.9	1553.0	1552.1
170°	1564.1	1564.3	1564.6	1565.2	1566.1	1567.0	1567.9	1568.8	1567.9	1567.0	1566.1
172.5°	1573.7	1574.0	1574.3	1574.9	1575.8	1576.7	1577.6	1578.5	1577.6	1576.7	1575.8
175°	1584.7	1585.4	1586.0	1586.7	1587.6	1588.5	1589.4	1590.3	1589.4	1588.5	1587.6
177.5°	1590.7	1591.2	1591.7	1592.3	1593.0	1593.8	1594.5	1595.2	1594.5	1593.8	1593.0
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1754.6	1751.3	1739.8	1733.8	1724.0	1714.7	1708.7	1711.5	1713.6	1712.5	1710.8
5°	1704.3	1691.3	1671.5	1654.4	1642.1	1619.6	1610.0	1605.3	1601.2	1596.3	1591.5
7.5°	1644.4	1624.0	1595.5	1571.2	1548.2	1520.2	1504.2	1494.7	1484.8	1474.0	1464.5
10°	1601.8	1573.1	1543.0	1508.9	1481.6	1456.3	1433.7	1418.6	1405.0	1392.0	1382.4
12.5°	1557.0	1523.9	1486.7	1440.0	1409.9	1373.7	1370.3	1343.8	1322.4	1314.4	1303.1
15°	1485.6	1439.1	1392.0	1336.7	1312.8	1280.0	1259.5	1238.9	1220.5	1207.5	1204.1
17.5°	1404.6	1344.4	1297.5	1257.8	1218.6	1185.0	1166.1	1149.7	1134.5	1117.1	1114.8
20°	1342.8	1290.8	1239.7	1204.8	1164.5	1130.2	1107.1	1090.7	1077.6	1067.4	1058.5
22.5°	1284.3	1227.4	1180.5	1142.5	1102.7	1075.0	1056.8	1040.9	1030.1	1018.8	1010.4
25°	1190.4	1146.0	1094.8	1051.7	1018.9	1001.1	986.1	972.4	965.6	958.1	948.5
27.5°	1108.3	1058.9	1010.9	977.6	948.8	933.1	922.4	913.1	906.7	902.3	896.9
30°	1050.3	1000.4	962.9	930.1	906.2	890.5	883.6	878.2	870.6	867.9	865.1
32.5°	994.5	949.6	917.5	889.0	866.2	856.0	849.7	844.8	838.9	836.2	830.7
35°	915.7	878.2	846.7	831.0	812.5	803.6	798.9	792.0	786.6	783.8	783.1
37.5°	841.5	808.9	788.2	767.9	760.2	754.7	748.1	743.5	741.9	741.5	740.7
40°	793.4	766.7	748.3	731.9	728.4	720.2	714.8	710.7	710.7	711.4	710.7
42.5°	749.7	725.8	709.4	695.3	691.3	686.3	680.9	680.6	681.7	684.0	681.7
45°	683.4	666.3	654.7	647.8	640.3	635.5	634.8	636.9	637.6	638.3	640.3
47.5°	622.4	611.1	600.6	593.0	589.8	588.9	588.1	591.7	594.9	596.2	599.3
50°	586.3	573.4	564.5	559.6	557.0	555.5	557.0	561.1	563.7	567.2	569.3
52.5°	545.9	536.7	530.6	526.9	525.8	526.6	526.9	531.5	535.9	537.2	538.1
55°	490.0	483.1	481.8	475.6	478.3	477.7	481.1	483.8	487.9	492.0	492.7
57.5°	434.2	428.7	425.1	425.6	426.4	429.4	432.3	437.1	441.5	445.9	446.2
60°	397.1	394.3	392.3	392.3	393.6	397.7	401.1	405.9	408.7	411.3	413.4
62.5°	363.1	360.4	358.4	359.4	363.0	365.4	369.4	372.0	374.8	377.5	378.4
65°	309.6	308.2	310.2	311.7	312.3	315.8	320.5	322.5	325.3	326.6	331.4
67.5°	260.2	260.5	260.2	262.2	266.1	266.9	271.4	276.3	276.8	279.4	282.5
70°	226.9	228.3	229.6	231.0	234.4	235.8	239.2	241.2	244.0	246.0	248.1
72.5°	196.3	196.5	197.9	197.6	200.5	203.5	206.3	208.4	211.2	213.7	215.8
75°	151.1	151.1	152.4	153.1	156.5	159.9	159.3	160.6	163.4	166.0	167.5
77.5°	110.3	108.8	110.3	111.0	112.1	114.9	115.5	117.4	120.6	119.6	121.1
80°	84.1	82.0	84.1	84.7	84.7	88.2	88.2	89.5	91.6	89.5	91.6
82.5°	60.0	59.0	60.5	60.7	61.8	61.9	63.0	63.3	65.4	64.4	65.4
85°	30.1	29.4	30.1	29.4	30.1	30.8	30.8	30.1	30.1	31.5	29.4
87.5°	12.4	12.9	13.6	15.0	15.8	16.5	15.9	15.7	15.6	14.4	14.4
90°	15.7	20.8	27.4	33.9	40.5	47.1	46.5	45.8	45.3	44.7	44.5
92.5°	34.4	36.6	38.1	39.7	41.2	42.7	42.9	43.0	43.1	43.2	43.3
95°	81.9	83.6	84.3	84.8	85.4	86.1	86.1	86.1	86.1	86.1	85.7
97.5°	138.2	140.1	141.2	142.4	143.5	144.6	144.6	144.6	144.6	144.6	144.6
100°	180.3	181.9	182.8	183.7	184.6	185.5	185.5	185.5	185.5	185.5	185.4
102.5°	223.6	225.1	226.2	227.3	228.5	229.6	229.9	230.1	230.3	230.6	230.5
105°	292.6	293.4	294.0	294.5	295.2	295.8	296.3	296.9	297.6	298.1	298.5
107.5°	367.9	368.6	368.6	368.6	368.6	368.6	368.8	369.1	369.3	369.5	369.0
110°	417.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	417.6



TEST NUMBER: P331610-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	468.8	469.6	469.3	469.1	468.9	468.6	467.9	467.2	466.5	465.7	465.0
115°	544.9	545.5	544.9	544.3	543.7	543.1	542.8	542.5	542.2	541.9	541.3
117.5°	623.1	623.5	621.8	620.1	618.4	616.8	616.1	615.4	614.7	613.9	613.1
120°	673.7	673.7	671.3	668.9	666.5	664.1	664.1	664.1	664.1	664.1	663.6
122.5°	721.8	722.4	720.8	719.1	717.4	715.7	715.0	714.3	713.5	712.8	712.1
125°	793.2	794.1	793.2	792.3	791.4	790.4	789.5	788.6	787.7	786.8	786.3
127.5°	866.2	867.4	866.3	865.2	864.2	863.1	861.9	860.9	859.8	858.7	857.7
130°	912.2	913.8	913.2	912.7	912.0	911.4	910.9	910.3	909.6	909.0	908.1
132.5°	958.8	960.5	960.6	960.6	960.8	960.9	959.6	958.3	957.0	955.6	954.5
135°	1025.4	1027.3	1028.0	1028.6	1029.1	1029.7	1029.5	1029.1	1028.9	1028.6	1028.0
137.5°	1092.6	1094.4	1095.2	1095.9	1096.7	1097.5	1097.3	1097.0	1096.8	1096.5	1095.8
140°	1134.6	1136.7	1138.2	1139.7	1141.2	1142.6	1142.6	1142.6	1142.6	1142.6	1142.1
142.5°	1177.6	1179.5	1180.4	1181.5	1182.5	1183.6	1183.7	1184.0	1184.3	1184.5	1184.0
145°	1237.1	1239.0	1240.8	1242.6	1244.4	1246.2	1246.4	1246.8	1247.1	1247.3	1246.9
147.5°	1293.9	1295.7	1296.9	1298.1	1299.3	1300.5	1301.2	1301.8	1302.4	1303.1	1302.9
150°	1328.6	1330.1	1331.3	1332.5	1333.7	1334.9	1335.8	1336.7	1337.6	1338.5	1338.5
152.5°	1362.0	1363.6	1365.0	1366.5	1367.9	1369.3	1370.5	1371.5	1372.7	1373.9	1373.9
155°	1408.4	1409.3	1410.2	1411.0	1411.9	1412.8	1414.3	1415.9	1417.4	1418.8	1419.2
157.5°	1449.9	1450.5	1451.1	1451.6	1452.2	1452.7	1454.6	1456.7	1458.7	1460.8	1461.1
160°	1475.8	1476.2	1476.5	1476.8	1477.1	1477.4	1479.2	1481.0	1482.7	1484.5	1484.9
162.5°	1497.5	1497.7	1498.0	1498.3	1498.6	1498.9	1500.9	1503.0	1505.0	1507.0	1507.3
165°	1527.3	1527.1	1527.1	1527.1	1527.1	1527.1	1529.2	1531.3	1533.4	1535.5	1535.8
167.5°	1551.2	1550.8	1550.7	1550.7	1550.6	1550.5	1552.6	1554.7	1556.8	1558.9	1559.2
170°	1565.2	1564.6	1564.3	1564.1	1563.7	1563.4	1565.5	1567.6	1569.7	1571.8	1571.9
172.5°	1574.9	1574.3	1574.0	1573.7	1573.4	1573.1	1575.2	1577.3	1579.4	1581.4	1581.6
175°	1586.7	1586.0	1585.4	1584.7	1584.2	1583.6	1585.7	1587.8	1589.8	1592.0	1592.1
177.5°	1592.3	1591.7	1591.2	1590.7	1590.3	1589.7	1591.2	1592.7	1594.1	1595.5	1595.5
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



TEST NUMBER: P331610-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1705.4	1704.3	1704.3	1699.4	1704.3	1704.3	1705.4	1710.8	1712.5	1713.6	1711.5
5°	1582.0	1579.9	1576.5	1579.9	1576.5	1579.9	1582.0	1591.5	1596.3	1601.2	1605.3
7.5°	1459.9	1451.7	1450.5	1442.4	1450.5	1451.7	1459.9	1464.5	1474.0	1484.8	1494.7
10°	1370.8	1365.4	1364.7	1351.7	1364.7	1365.4	1370.8	1382.4	1392.0	1405.0	1418.6
12.5°	1303.1	1289.9	1292.5	1285.0	1292.5	1289.9	1303.1	1303.1	1314.4	1322.4	1343.8
15°	1185.6	1185.6	1182.9	1171.3	1182.9	1185.6	1185.6	1204.1	1207.5	1220.5	1238.9
17.5°	1101.4	1099.9	1093.4	1096.6	1093.4	1099.9	1101.4	1114.8	1117.1	1134.5	1149.7
20°	1051.0	1047.0	1038.8	1038.8	1038.8	1047.0	1051.0	1058.5	1067.4	1077.6	1090.7
22.5°	1003.4	1003.2	994.4	997.2	994.4	1003.2	1003.4	1010.4	1018.8	1030.1	1040.9
25°	947.8	942.4	938.3	940.3	938.3	942.4	947.8	948.5	958.1	965.6	972.4
27.5°	895.1	892.1	891.8	886.2	891.8	892.1	895.1	896.9	902.3	906.7	913.1
30°	864.4	857.6	859.0	855.6	859.0	857.6	864.4	865.1	867.9	870.6	878.2
32.5°	829.5	827.0	825.6	822.8	825.6	827.0	829.5	830.7	836.2	838.9	844.8
35°	781.8	782.5	779.0	780.4	779.0	782.5	781.8	783.1	783.8	786.6	792.0
37.5°	740.1	742.3	740.7	741.0	740.7	742.3	740.1	740.7	741.5	741.9	743.5
40°	712.7	712.7	712.7	714.8	712.7	712.7	712.7	710.7	711.4	710.7	710.7
42.5°	686.5	685.5	684.3	684.2	684.3	685.5	686.5	681.7	684.0	681.7	680.6
45°	641.7	643.7	644.4	641.0	644.4	643.7	641.7	640.3	638.3	637.6	636.9
47.5°	601.1	601.4	601.1	604.1	601.1	601.4	601.1	599.3	596.2	594.9	591.7
50°	572.7	571.3	572.7	571.3	572.7	571.3	572.7	569.3	567.2	563.7	561.1
52.5°	542.6	542.9	542.1	541.8	542.1	542.9	542.6	538.1	537.2	535.9	531.5
55°	495.4	496.8	496.1	496.1	496.1	496.8	495.4	492.7	492.0	487.9	483.8
57.5°	446.7	447.9	448.8	445.9	448.8	447.9	446.7	446.2	445.9	441.5	437.1
60°	412.8	416.2	415.4	414.1	415.4	416.2	412.8	413.4	411.3	408.7	405.9
62.5°	381.6	382.8	382.7	382.5	382.7	382.8	381.6	378.4	377.5	374.8	372.0
65°	333.5	334.8	332.8	334.8	332.8	334.8	333.5	331.4	326.6	325.3	322.5
67.5°	281.7	282.1	283.6	284.5	283.6	282.1	281.7	282.5	279.4	276.8	276.3
70°	249.4	248.8	250.8	252.9	250.8	248.8	249.4	248.1	246.0	244.0	241.2
72.5°	215.5	217.0	216.3	217.8	216.3	217.0	215.5	215.8	213.7	211.2	208.4
75°	166.0	168.1	167.5	169.5	167.5	168.1	166.0	167.5	166.0	163.4	160.6
77.5°	120.0	120.3	120.0	121.1	120.0	120.3	120.0	121.1	119.6	120.6	117.4
80°	91.6	90.2	88.8	91.6	88.8	90.2	91.6	91.6	89.5	91.6	89.5
82.5°	63.7	64.5	63.1	63.1	63.1	64.5	63.7	65.4	64.4	65.4	63.3
85°	29.4	28.7	27.4	27.4	27.4	28.7	29.4	29.4	31.5	30.1	30.1
87.5°	14.4	13.9	14.0	13.6	14.0	13.9	14.4	14.4	14.4	15.6	15.7
90°	44.9	45.1	45.4	45.7	45.4	45.1	44.9	44.5	44.7	45.3	45.8
92.5°	43.3	43.4	43.5	43.5	43.5	43.4	43.3	43.3	43.2	43.1	43.0
95°	85.2	84.5	83.9	83.4	83.9	84.5	85.2	85.7	86.1	86.1	86.1
97.5°	144.5	144.5	144.5	144.4	144.5	144.5	144.5	144.6	144.6	144.6	144.6
100°	185.0	184.8	184.5	184.1	184.5	184.8	185.0	185.4	185.5	185.5	185.5
102.5°	230.2	230.0	229.6	229.3	229.6	230.0	230.2	230.5	230.6	230.3	230.1
105°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.1	297.6	296.9
107.5°	367.7	366.2	364.9	363.5	364.9	366.2	367.7	369.0	369.5	369.3	369.1
110°	416.7	415.8	414.9	414.0	414.9	415.8	416.7	417.6	418.1	418.1	418.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	464.4	463.8	463.1	462.4	463.1	463.8	464.4	465.0	465.7	466.5	467.2
115°	540.4	539.5	538.6	537.7	538.6	539.5	540.4	541.3	541.9	542.2	542.5
117.5°	612.2	611.3	610.4	609.5	610.4	611.3	612.2	613.1	613.9	614.7	615.4
120°	662.7	661.8	660.9	660.0	660.9	661.8	662.7	663.6	664.1	664.1	664.1
122.5°	711.5	710.9	710.2	709.5	710.2	710.9	711.5	712.1	712.8	713.5	714.3
125°	786.0	785.7	785.4	785.1	785.4	785.7	786.0	786.3	786.8	787.7	788.6
127.5°	856.8	855.8	854.9	853.9	854.9	855.8	856.8	857.7	858.7	859.8	860.9
130°	907.0	905.8	904.6	903.4	904.6	905.8	907.0	908.1	909.0	909.6	910.3
132.5°	953.6	952.6	951.6	950.7	951.6	952.6	953.6	954.5	955.6	957.0	958.3
135°	1027.1	1026.2	1025.3	1024.4	1025.3	1026.2	1027.1	1028.0	1028.6	1028.9	1029.1
137.5°	1094.7	1093.4	1092.3	1091.0	1092.3	1093.4	1094.7	1095.8	1096.5	1096.8	1097.0
140°	1140.9	1139.7	1138.4	1137.3	1138.4	1139.7	1140.9	1142.1	1142.6	1142.6	1142.6
142.5°	1182.9	1181.6	1180.4	1179.2	1180.4	1181.6	1182.9	1184.0	1184.5	1184.3	1184.0
145°	1245.7	1244.6	1243.3	1242.2	1243.3	1244.6	1245.7	1246.9	1247.3	1247.1	1246.8
147.5°	1301.7	1300.6	1299.5	1298.3	1299.5	1300.6	1301.7	1302.9	1303.1	1302.4	1301.8
150°	1337.6	1336.7	1335.8	1334.9	1335.8	1336.7	1337.6	1338.5	1338.5	1337.6	1336.7
152.5°	1372.7	1371.5	1370.5	1369.3	1370.5	1371.5	1372.7	1373.9	1373.9	1372.7	1371.5
155°	1418.3	1417.4	1416.5	1415.6	1416.5	1417.4	1418.3	1419.2	1418.8	1417.4	1415.9
157.5°	1459.6	1458.2	1456.8	1455.4	1456.8	1458.2	1459.6	1461.1	1460.8	1458.7	1456.7
160°	1483.6	1482.5	1481.3	1480.1	1481.3	1482.5	1483.6	1484.9	1484.5	1482.7	1481.0
162.5°	1505.9	1504.5	1503.1	1501.6	1503.1	1504.5	1505.9	1507.3	1507.0	1505.0	1503.0
165°	1534.3	1532.9	1531.3	1529.8	1531.3	1532.9	1534.3	1535.8	1535.5	1533.4	1531.3
167.5°	1557.6	1556.0	1554.5	1552.9	1554.5	1556.0	1557.6	1559.2	1558.9	1556.8	1554.7
170°	1570.1	1568.3	1566.6	1564.8	1566.6	1568.3	1570.1	1571.9	1571.8	1569.7	1567.6
172.5°	1579.8	1578.1	1576.3	1574.5	1576.3	1578.1	1579.8	1581.6	1581.4	1579.4	1577.3
175°	1590.3	1588.5	1586.7	1584.9	1586.7	1588.5	1590.3	1592.1	1592.0	1589.8	1587.8
177.5°	1594.1	1592.7	1591.2	1589.7	1591.2	1592.7	1594.1	1595.5	1595.5	1594.1	1592.7
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1708.7	1714.7	1724.0	1733.8	1739.8	1751.3	1754.6	1760.1	1765.0	1776.5	1788.5
5°	1610.0	1619.6	1642.1	1654.4	1671.5	1691.3	1704.3	1718.0	1733.0	1759.0	1782.9
7.5°	1504.2	1520.2	1548.2	1571.2	1595.5	1624.0	1644.4	1671.5	1693.9	1730.5	1765.5
10°	1433.7	1456.3	1481.6	1508.9	1543.0	1573.1	1601.8	1635.9	1663.3	1707.0	1748.0
12.5°	1370.3	1373.7	1409.9	1440.0	1486.7	1523.9	1557.0	1601.0	1627.7	1679.7	1722.9
15°	1259.5	1280.0	1312.8	1336.7	1392.0	1439.1	1485.6	1531.4	1562.2	1626.4	1683.1
17.5°	1166.1	1185.0	1218.6	1257.8	1297.5	1344.4	1404.6	1452.9	1494.7	1568.1	1635.1
20°	1107.1	1130.2	1164.5	1204.8	1239.7	1290.8	1342.8	1398.2	1443.2	1526.0	1604.5
22.5°	1056.8	1075.0	1102.7	1142.5	1180.5	1227.4	1284.3	1344.6	1391.9	1481.1	1560.8
25°	986.1	1001.1	1018.9	1051.7	1094.8	1146.0	1190.4	1256.7	1325.7	1409.1	1505.5
27.5°	922.4	933.1	948.8	977.6	1010.9	1058.9	1108.3	1171.2	1240.5	1331.1	1432.7
30°	883.6	890.5	906.2	930.1	962.9	1000.4	1050.3	1110.4	1181.5	1273.1	1374.2
32.5°	849.7	856.0	866.2	889.0	917.5	949.6	994.5	1054.7	1122.5	1212.5	1324.5
35°	798.9	803.6	812.5	831.0	846.7	878.2	915.7	970.4	1033.9	1120.1	1236.2
37.5°	748.1	754.7	760.2	767.9	788.2	808.9	841.5	887.7	950.0	1037.0	1147.6
40°	714.8	720.2	728.4	731.9	748.3	766.7	793.4	835.7	898.7	977.9	1085.8
42.5°	680.9	686.3	691.3	695.3	709.4	725.8	749.7	786.0	841.8	918.8	1025.7
45°	634.8	635.5	640.3	647.8	654.7	666.3	683.4	714.8	757.9	830.3	927.3
47.5°	588.1	588.9	589.8	593.0	600.6	611.1	622.4	648.0	686.5	744.3	838.7
50°	557.0	555.5	557.0	559.6	564.5	573.4	586.3	604.8	636.2	690.2	776.9
52.5°	526.9	526.6	525.8	526.9	530.6	536.7	545.9	561.6	589.8	639.4	715.8
55°	481.1	477.7	478.3	475.6	481.8	483.1	490.0	502.9	527.5	561.7	633.5
57.5°	432.3	429.4	426.4	425.6	425.1	428.7	434.2	444.4	463.3	493.3	551.4
60°	401.1	397.7	393.6	392.3	392.3	394.3	397.1	404.6	422.3	449.0	496.8
62.5°	369.4	365.4	363.0	359.4	358.4	360.4	363.1	368.5	381.3	406.4	447.6
65°	320.5	315.8	312.3	311.7	310.2	308.2	309.6	315.0	325.3	345.1	377.9
67.5°	271.4	266.9	266.1	262.2	260.2	260.5	260.2	264.8	271.0	288.1	312.5
70°	239.2	235.8	234.4	231.0	229.6	228.3	226.9	231.0	237.1	251.5	272.7
72.5°	206.3	203.5	200.5	197.6	197.9	196.5	196.3	198.8	203.8	217.0	233.3
75°	159.3	159.9	156.5	153.1	152.4	151.1	151.1	153.1	155.2	165.4	178.3
77.5°	115.5	114.9	112.1	111.0	110.3	108.8	110.3	111.6	112.7	119.6	129.1
80°	88.2	88.2	84.7	84.7	84.1	82.0	84.1	82.7	85.4	92.3	99.1
82.5°	63.0	61.9	61.8	60.7	60.5	59.0	60.0	61.3	62.4	67.1	71.2
85°	30.8	30.8	30.1	29.4	30.1	29.4	30.1	30.8	31.5	33.5	36.9
87.5°	15.9	16.5	15.8	15.0	13.6	12.9	12.4	12.2	12.7	12.5	12.3
90°	46.5	47.1	40.5	33.9	27.4	20.8	15.7	12.1	8.5	4.9	1.3
92.5°	42.9	42.7	41.2	39.7	38.1	36.6	34.4	31.8	29.2	26.6	23.9
95°	86.1	86.1	85.4	84.8	84.3	83.6	81.9	78.8	75.9	72.9	69.9
97.5°	144.6	144.6	143.5	142.4	141.2	140.1	138.2	135.6	133.0	130.4	127.7
100°	185.5	185.5	184.6	183.7	182.8	181.9	180.3	177.9	175.5	173.1	170.8
102.5°	229.9	229.6	228.5	227.3	226.2	225.1	223.6	221.6	219.7	217.8	215.9
105°	296.3	295.8	295.2	294.5	294.0	293.4	292.6	291.7	290.8	289.9	289.0
107.5°	368.8	368.6	368.6	368.6	368.6	368.6	367.9	366.7	365.3	364.0	362.7
110°	418.1	418.1	418.1	418.1	418.1	418.1	417.1	415.4	413.6	411.8	410.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	467.9	468.6	468.9	469.1	469.3	469.6	468.8	467.0	465.2	463.4	461.6
115°	542.8	543.1	543.7	544.3	544.9	545.5	544.9	543.1	541.3	539.5	537.7
117.5°	616.1	616.8	618.4	620.1	621.8	623.5	623.1	620.7	618.3	615.9	613.6
120°	664.1	664.1	666.5	668.9	671.3	673.7	673.7	671.3	668.9	666.5	664.1
122.5°	715.0	715.7	717.4	719.1	720.8	722.4	721.8	718.9	716.0	713.2	710.3
125°	789.5	790.4	791.4	792.3	793.2	794.1	793.2	790.4	787.7	785.1	782.4
127.5°	861.9	863.1	864.2	865.2	866.3	867.4	866.2	862.8	859.3	856.0	852.6
130°	910.9	911.4	912.0	912.7	913.2	913.8	912.2	908.3	904.5	900.5	896.6
132.5°	959.6	960.9	960.8	960.6	960.6	960.5	958.8	955.6	952.4	949.3	946.1
135°	1029.5	1029.7	1029.1	1028.6	1028.0	1027.3	1025.4	1022.1	1018.9	1015.6	1012.3
137.5°	1097.3	1097.5	1096.7	1095.9	1095.2	1094.4	1092.6	1089.9	1087.3	1084.6	1081.9
140°	1142.6	1142.6	1141.2	1139.7	1138.2	1136.7	1134.6	1131.9	1129.3	1126.5	1123.8
142.5°	1183.7	1183.6	1182.5	1181.5	1180.4	1179.5	1177.6	1174.9	1172.2	1169.6	1166.9
145°	1246.4	1246.2	1244.4	1242.6	1240.8	1239.0	1237.1	1234.9	1232.9	1230.8	1228.7
147.5°	1301.2	1300.5	1299.3	1298.1	1296.9	1295.7	1293.9	1291.4	1288.8	1286.3	1283.8
150°	1335.8	1334.9	1333.7	1332.5	1331.3	1330.1	1328.6	1326.9	1325.1	1323.2	1321.4
152.5°	1370.5	1369.3	1367.9	1366.5	1365.0	1363.6	1362.0	1360.1	1358.3	1356.6	1354.8
155°	1414.3	1412.8	1411.9	1411.0	1410.2	1409.3	1408.4	1407.5	1406.6	1405.7	1404.8
157.5°	1454.6	1452.7	1452.2	1451.6	1451.1	1450.5	1449.9	1449.4	1448.8	1448.1	1447.5
160°	1479.2	1477.4	1477.1	1476.8	1476.5	1476.2	1475.8	1475.2	1474.5	1474.0	1473.4
162.5°	1500.9	1498.9	1498.6	1498.3	1498.0	1497.7	1497.5	1497.4	1497.3	1497.2	1497.0
165°	1529.2	1527.1	1527.1	1527.1	1527.1	1527.1	1527.3	1527.6	1527.9	1528.2	1528.5
167.5°	1552.6	1550.5	1550.6	1550.7	1550.7	1550.8	1551.2	1552.1	1553.0	1553.9	1554.8
170°	1565.5	1563.4	1563.7	1564.1	1564.3	1564.6	1565.2	1566.1	1567.0	1567.9	1568.8
172.5°	1575.2	1573.1	1573.4	1573.7	1574.0	1574.3	1574.9	1575.8	1576.7	1577.6	1578.5
175°	1585.7	1583.6	1584.2	1584.7	1585.4	1586.0	1586.7	1587.6	1588.5	1589.4	1590.3
177.5°	1591.2	1589.7	1590.3	1590.7	1591.2	1591.7	1592.3	1593.0	1593.8	1594.5	1595.2
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1787.4	1790.1	1798.8	1807.7	1817.5	1820.2	1824.6	1820.8	1819.6	1830.1	1837.7
5°	1792.4	1804.7	1828.7	1850.6	1869.0	1882.0	1895.7	1901.1	1911.4	1925.7	1943.5
7.5°	1786.7	1810.6	1848.2	1880.1	1914.8	1939.8	1959.4	1976.0	1996.3	2023.5	2053.1
10°	1780.1	1812.3	1858.1	1897.0	1939.4	1971.5	1998.1	2024.1	2054.2	2091.8	2130.7
12.5°	1768.2	1806.2	1863.5	1909.6	1964.0	1995.6	2031.5	2087.6	2119.8	2172.1	2227.0
15°	1743.9	1786.3	1866.3	1923.0	1984.5	2044.6	2110.9	2164.2	2217.5	2248.3	2325.5
17.5°	1708.0	1770.2	1858.8	1924.9	2003.0	2097.7	2172.3	2232.7	2294.2	2344.0	2382.7
20°	1679.0	1746.7	1847.8	1927.1	2020.0	2121.8	2207.3	2268.8	2322.1	2363.7	2387.6
22.5°	1642.4	1727.5	1826.0	1918.9	2037.6	2138.2	2228.0	2276.4	2320.9	2341.4	2350.5
25°	1584.7	1687.2	1798.6	1912.1	2046.0	2152.6	2234.6	2264.0	2277.0	2257.2	2224.4
27.5°	1522.5	1636.8	1767.0	1899.2	2040.8	2143.3	2202.1	2197.4	2175.4	2111.3	2060.0
30°	1476.0	1601.8	1741.9	1886.1	2028.2	2128.0	2162.1	2128.0	2078.1	2006.3	1933.2
32.5°	1427.5	1557.6	1715.1	1867.5	2005.3	2093.0	2100.4	2041.7	1964.4	1882.8	1791.6
35°	1353.7	1494.5	1664.6	1826.0	1956.5	2011.8	1979.1	1875.2	1783.6	1672.2	1547.8
37.5°	1270.5	1425.9	1596.6	1765.1	1883.4	1897.8	1816.4	1707.0	1577.9	1447.0	1300.6
40°	1208.2	1372.9	1548.5	1718.7	1823.2	1808.2	1704.3	1584.0	1430.3	1270.3	1134.3
42.5°	1152.4	1317.1	1496.0	1662.9	1746.7	1705.4	1584.0	1436.5	1271.2	1120.6	996.0
45°	1055.8	1225.3	1408.5	1569.7	1617.6	1543.0	1382.4	1218.4	1055.8	930.1	831.7
47.5°	962.1	1129.6	1311.0	1452.7	1469.6	1369.5	1194.0	1025.2	885.4	783.0	713.5
50°	893.1	1061.2	1241.0	1367.4	1361.9	1241.0	1060.6	900.0	783.1	700.4	654.0
52.5°	831.3	990.2	1162.8	1277.7	1248.8	1116.9	944.7	802.1	706.1	641.4	599.3
55°	735.3	882.3	1046.2	1138.4	1085.2	939.0	793.4	678.6	607.5	559.0	526.2
57.5°	639.9	777.7	918.0	974.9	916.0	781.0	659.6	576.3	522.9	487.0	465.7
60°	580.9	701.2	826.2	875.4	805.0	684.7	589.1	514.6	471.5	442.1	423.0
62.5°	521.8	629.5	747.4	774.3	709.9	608.2	523.4	461.5	426.1	400.0	382.0
65°	441.5	529.6	619.1	636.9	577.5	498.8	431.9	391.6	360.2	341.0	326.6
67.5°	362.0	432.8	496.2	510.6	458.5	404.0	355.6	320.5	299.2	283.3	271.2
70°	315.0	371.0	423.0	434.6	393.0	344.4	307.6	279.5	260.4	246.7	235.1
72.5°	265.3	312.0	355.2	363.0	329.0	291.9	261.6	239.6	222.7	213.9	202.9
75°	203.0	230.3	263.8	265.8	243.3	220.7	197.5	183.2	174.2	163.4	157.8
77.5°	143.2	164.7	183.8	187.5	174.2	158.8	145.8	134.5	127.0	121.9	116.8
80°	109.3	126.4	134.6	139.4	129.8	118.9	111.4	103.9	99.1	95.7	92.3
82.5°	78.2	88.7	96.4	100.0	94.9	88.3	80.8	76.5	72.9	70.0	68.8
85°	39.6	44.4	49.2	50.6	49.2	46.5	42.4	42.4	40.3	39.6	39.6
87.5°	14.6	17.6	18.3	20.6	20.5	21.8	23.2	24.0	24.7	24.1	23.4
90°	4.9	8.5	12.1	15.7	20.8	27.4	33.9	40.5	47.1	46.5	45.8
92.5°	26.6	29.2	31.8	34.4	36.6	38.1	39.7	41.2	42.7	42.9	43.0
95°	72.9	75.9	78.8	81.9	83.6	84.3	84.8	85.4	86.1	86.1	86.1
97.5°	130.4	133.0	135.6	138.2	140.1	141.2	142.4	143.5	144.6	144.6	144.6
100°	173.1	175.5	177.9	180.3	181.9	182.8	183.7	184.6	185.5	185.5	185.5
102.5°	217.8	219.7	221.6	223.6	225.1	226.2	227.3	228.5	229.6	229.9	230.1
105°	289.9	290.8	291.7	292.6	293.4	294.0	294.5	295.2	295.8	296.3	296.9
107.5°	364.0	365.3	366.7	367.9	368.6	368.6	368.6	368.6	368.6	368.8	369.1
110°	411.8	413.6	415.4	417.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	463.4	465.2	467.0	468.8	469.6	469.3	469.1	468.9	468.6	467.9	467.2
115°	539.5	541.3	543.1	544.9	545.5	544.9	544.3	543.7	543.1	542.8	542.5
117.5°	615.9	618.3	620.7	623.1	623.5	621.8	620.1	618.4	616.8	616.1	615.4
120°	666.5	668.9	671.3	673.7	673.7	671.3	668.9	666.5	664.1	664.1	664.1
122.5°	713.2	716.0	718.9	721.8	722.4	720.8	719.1	717.4	715.7	715.0	714.3
125°	785.1	787.7	790.4	793.2	794.1	793.2	792.3	791.4	790.4	789.5	788.6
127.5°	856.0	859.3	862.8	866.2	867.4	866.3	865.2	864.2	863.1	861.9	860.9
130°	900.5	904.5	908.3	912.2	913.8	913.2	912.7	912.0	911.4	910.9	910.3
132.5°	949.3	952.4	955.6	958.8	960.5	960.6	960.6	960.8	960.9	959.6	958.3
135°	1015.6	1018.9	1022.1	1025.4	1027.3	1028.0	1028.6	1029.1	1029.7	1029.5	1029.1
137.5°	1084.6	1087.3	1089.9	1092.6	1094.4	1095.2	1095.9	1096.7	1097.5	1097.3	1097.0
140°	1126.5	1129.3	1131.9	1134.6	1136.7	1138.2	1139.7	1141.2	1142.6	1142.6	1142.6
142.5°	1169.6	1172.2	1174.9	1177.6	1179.5	1180.4	1181.5	1182.5	1183.6	1183.7	1184.0
145°	1230.8	1232.9	1234.9	1237.1	1239.0	1240.8	1242.6	1244.4	1246.2	1246.4	1246.8
147.5°	1286.3	1288.8	1291.4	1293.9	1295.7	1296.9	1298.1	1299.3	1300.5	1301.2	1301.8
150°	1323.2	1325.1	1326.9	1328.6	1330.1	1331.3	1332.5	1333.7	1334.9	1335.8	1336.7
152.5°	1356.6	1358.3	1360.1	1362.0	1363.6	1365.0	1366.5	1367.9	1369.3	1370.5	1371.5
155°	1405.7	1406.6	1407.5	1408.4	1409.3	1410.2	1411.0	1411.9	1412.8	1414.3	1415.9
157.5°	1448.1	1448.8	1449.4	1449.9	1450.5	1451.1	1451.6	1452.2	1452.7	1454.6	1456.7
160°	1474.0	1474.5	1475.2	1475.8	1476.2	1476.5	1476.8	1477.1	1477.4	1479.2	1481.0
162.5°	1497.2	1497.3	1497.4	1497.5	1497.7	1498.0	1498.3	1498.6	1498.9	1500.9	1503.0
165°	1528.2	1527.9	1527.6	1527.3	1527.1	1527.1	1527.1	1527.1	1527.1	1529.2	1531.3
167.5°	1553.9	1553.0	1552.1	1551.2	1550.8	1550.7	1550.7	1550.6	1550.5	1552.6	1554.7
170°	1567.9	1567.0	1566.1	1565.2	1564.6	1564.3	1564.1	1563.7	1563.4	1565.5	1567.6
172.5°	1577.6	1576.7	1575.8	1574.9	1574.3	1574.0	1573.7	1573.4	1573.1	1575.2	1577.3
175°	1589.4	1588.5	1587.6	1586.7	1586.0	1585.4	1584.7	1584.2	1583.6	1585.7	1587.8
177.5°	1594.5	1593.8	1593.0	1592.3	1591.7	1591.2	1590.7	1590.3	1589.7	1591.2	1592.7
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1844.2	1851.9	1851.9	1853.0	1861.7	1860.6	1860.1
5°	1962.7	1974.2	1975.6	1987.9	1996.1	1993.3	1985.8
7.5°	2074.3	2095.9	2112.3	2121.5	2132.3	2138.9	2135.9
10°	2162.8	2194.3	2213.4	2226.4	2242.1	2253.7	2249.6
12.5°	2243.2	2280.6	2306.9	2329.1	2331.2	2346.1	2336.0
15°	2368.6	2408.2	2412.3	2428.7	2441.7	2440.3	2441.0
17.5°	2409.9	2422.7	2425.3	2425.6	2425.8	2421.0	2410.7
20°	2395.2	2390.4	2378.8	2369.9	2354.2	2352.2	2338.5
22.5°	2325.2	2310.1	2280.9	2261.6	2237.2	2230.8	2227.0
25°	2187.5	2153.9	2107.5	2063.1	2050.8	2026.9	2033.7
27.5°	1998.4	1946.2	1896.0	1859.8	1827.2	1791.4	1801.6
30°	1865.5	1806.8	1735.7	1681.1	1646.2	1612.0	1605.9
32.5°	1707.0	1621.0	1541.7	1493.5	1440.1	1418.5	1394.9
35°	1433.7	1349.6	1271.0	1203.4	1164.5	1134.3	1107.1
37.5°	1187.8	1091.1	1027.6	972.9	944.7	927.5	931.8
40°	1035.3	950.6	904.1	862.4	836.4	824.1	826.9
42.5°	911.8	848.3	810.0	781.5	763.2	756.3	754.7
45°	771.5	736.0	704.5	688.1	679.3	671.7	667.0
47.5°	675.8	646.8	629.1	619.4	611.6	604.0	603.8
50°	618.4	599.3	587.0	576.8	570.6	565.2	569.9
52.5°	574.7	557.2	544.9	535.7	533.4	528.5	528.3
55°	509.8	496.1	487.2	479.0	474.9	472.2	468.8
57.5°	450.8	437.7	429.5	424.4	416.6	413.8	412.8
60°	408.7	398.4	390.2	383.3	380.0	374.5	374.5
62.5°	369.8	359.6	352.0	346.7	341.2	338.9	339.5
65°	313.7	305.5	297.9	292.5	291.1	287.0	288.4
67.5°	262.0	256.5	248.6	245.6	243.0	240.9	239.2
70°	227.6	222.1	218.0	213.9	211.9	211.9	211.9
72.5°	198.6	192.0	189.6	184.4	185.6	183.4	181.2
75°	153.7	149.6	147.6	145.5	142.1	142.1	142.1
77.5°	113.2	111.9	109.5	107.3	106.5	105.8	106.0
80°	87.5	86.8	85.4	85.4	84.1	83.4	82.0
82.5°	67.2	65.5	64.6	64.1	63.8	63.7	63.4
85°	38.3	36.9	36.9	37.5	36.2	36.2	36.9
87.5°	23.8	23.7	23.1	23.2	23.8	23.3	23.4
90°	45.3	44.7	44.5	44.9	45.1	45.4	45.7
92.5°	43.1	43.2	43.3	43.3	43.4	43.5	43.5
95°	86.1	86.1	85.7	85.2	84.5	83.9	83.4
97.5°	144.6	144.6	144.6	144.5	144.5	144.5	144.4
100°	185.5	185.5	185.4	185.0	184.8	184.5	184.1
102.5°	230.3	230.6	230.5	230.2	230.0	229.6	229.3
105°	297.6	298.1	298.5	298.5	298.5	298.5	298.5
107.5°	369.3	369.5	369.0	367.7	366.2	364.9	363.5
110°	418.1	418.1	417.6	416.7	415.8	414.9	414.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	466.5	465.7	465.0	464.4	463.8	463.1	462.4
115°	542.2	541.9	541.3	540.4	539.5	538.6	537.7
117.5°	614.7	613.9	613.1	612.2	611.3	610.4	609.5
120°	664.1	664.1	663.6	662.7	661.8	660.9	660.0
122.5°	713.5	712.8	712.1	711.5	710.9	710.2	709.5
125°	787.7	786.8	786.3	786.0	785.7	785.4	785.1
127.5°	859.8	858.7	857.7	856.8	855.8	854.9	853.9
130°	909.6	909.0	908.1	907.0	905.8	904.6	903.4
132.5°	957.0	955.6	954.5	953.6	952.6	951.6	950.7
135°	1028.9	1028.6	1028.0	1027.1	1026.2	1025.3	1024.4
137.5°	1096.8	1096.5	1095.8	1094.7	1093.4	1092.3	1091.0
140°	1142.6	1142.6	1142.1	1140.9	1139.7	1138.4	1137.3
142.5°	1184.3	1184.5	1184.0	1182.9	1181.6	1180.4	1179.2
145°	1247.1	1247.3	1246.9	1245.7	1244.6	1243.3	1242.2
147.5°	1302.4	1303.1	1302.9	1301.7	1300.6	1299.5	1298.3
150°	1337.6	1338.5	1338.5	1337.6	1336.7	1335.8	1334.9
152.5°	1372.7	1373.9	1373.9	1372.7	1371.5	1370.5	1369.3
155°	1417.4	1418.8	1419.2	1418.3	1417.4	1416.5	1415.6
157.5°	1458.7	1460.8	1461.1	1459.6	1458.2	1456.8	1455.4
160°	1482.7	1484.5	1484.9	1483.6	1482.5	1481.3	1480.1
162.5°	1505.0	1507.0	1507.3	1505.9	1504.5	1503.1	1501.6
165°	1533.4	1535.5	1535.8	1534.3	1532.9	1531.3	1529.8
167.5°	1556.8	1558.9	1559.2	1557.6	1556.0	1554.5	1552.9
170°	1569.7	1571.8	1571.9	1570.1	1568.3	1566.6	1564.8
172.5°	1579.4	1581.4	1581.6	1579.8	1578.1	1576.3	1574.5
175°	1589.8	1592.0	1592.1	1590.3	1588.5	1586.7	1584.9
177.5°	1594.1	1595.5	1595.5	1594.1	1592.7	1591.2	1589.7
180°	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0	1593.0

(END OF REPORT)