

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: P333051

Luminaire Tested: **S124RDIW-S575D1560U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333051
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: S124RDIW-S575D1560U835-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8683.8 lumens
Efficiency: N/A
Efficacy: 143.3 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: Semi-Indirect

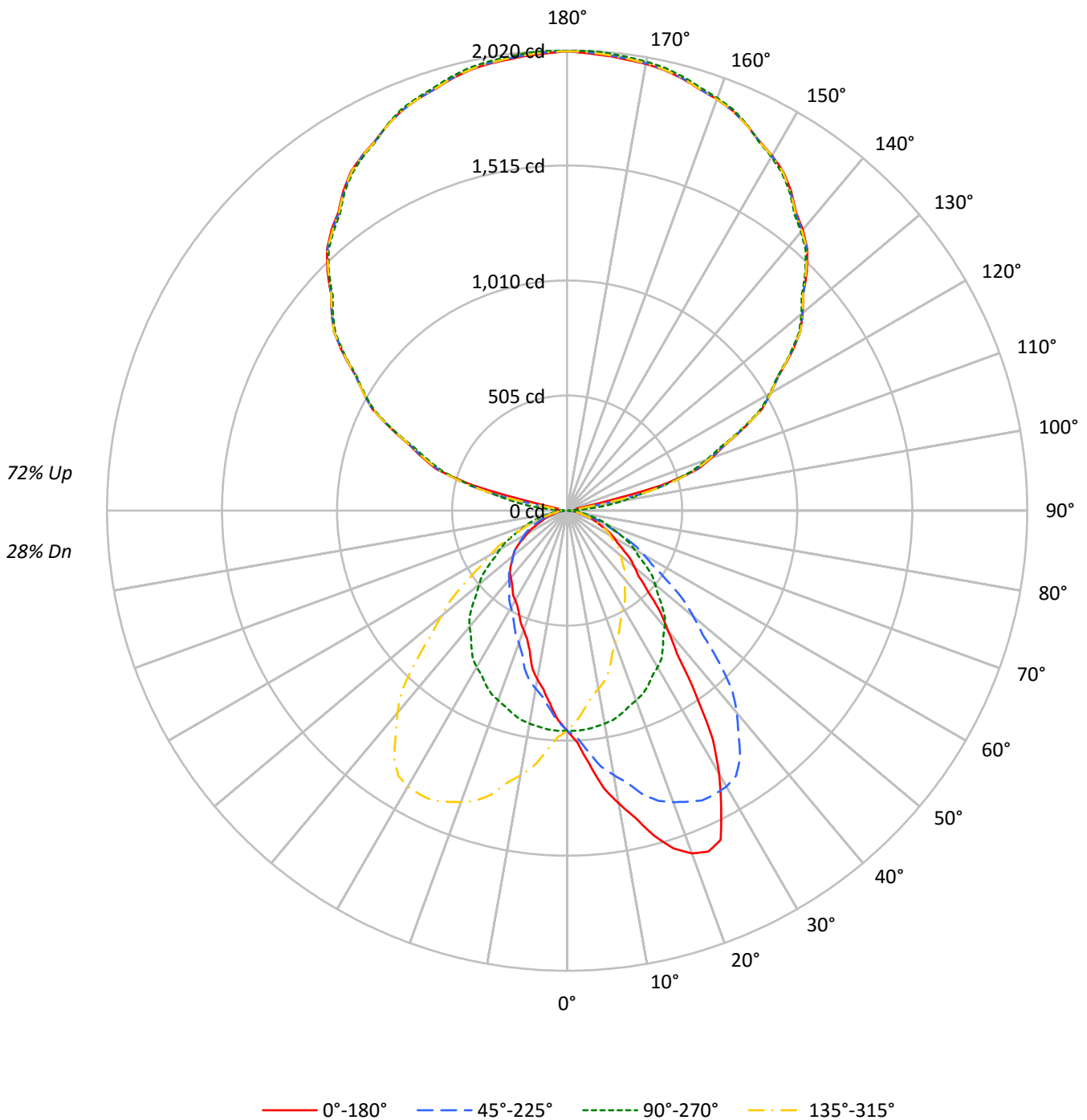
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28								
1	93	89	85	82	83	80	77	74	63	61	59	47	46	44	32	32	31	24								
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	29	27	26	21								
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23	18								
4	71	61	53	48	63	55	48	44	43	39	35	33	30	27	23	21	20	15								
5	65	54	46	41	58	49	42	37	39	34	30	29	26	24	21	19	17	14								
6	60	49	41	35	54	44	37	32	35	30	27	27	23	21	19	17	15	12								
7	55	44	36	31	49	40	33	28	32	27	23	24	21	18	17	15	14	11								
8	51	40	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12	10								
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	15	13	11	9								
10	44	33	26	21	40	30	24	20	24	20	16	19	15	13	14	11	10	8								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7796	7796	7796	7796
5°	9043	7819	6912	7819
10°	10698	7785	6169	7785
15°	12357	7713	5300	7713
20°	13759	7614	4793	7614
25°	14203	7517	4450	7517
30°	12433	7399	4243	7399
35°	9678	7224	4119	7224
40°	7258	7024	4051	7024
45°	5730	6703	4015	6703
50°	4838	6332	3900	6332
55°	4217	5925	3690	5925
60°	3794	5503	3266	5503
65°	3345	5047	2810	5047
70°	3012	4574	2535	4574
75°	2523	4055	2162	4055
80°	2134	3454	2027	3454
85°	1806	2705	1806	2705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.1
10°-20°	282.2	3.3
20°-30°	441.5	5.1
30°-40°	490.8	5.7
40°-50°	435.4	5.0
50°-60°	339.3	3.9
60°-70°	222.1	2.6
70°-80°	109.2	1.3
80°-90°	32.8	0.4
90°-100°	69.0	0.8
100°-110°	439.7	5.1
110°-120°	841.1	9.7
120°-130°	1067.8	12.3
130°-140°	1142.4	13.2
140°-150°	1068.3	12.3
150°-160°	861.5	9.9
160°-170°	555.6	6.4
170°-180°	191.5	2.2
0°-30°	817.3	9.4
0°-40°	1308.0	15.1
0°-60°	2082.7	24.0
0°-90°	2446.9	28.2
90°-120°	1349.8	15.5
90°-150°	4628.2	53.3
90°-180°	6237.0	71.8
0°-180°	8683.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	966	966	966	966	966	
5°	1116	965	853	965	1116	113
15°	1478	923	634	923	1478	420
25°	1594	844	500	844	1594	707
35°	982	733	418	733	982	616
45°	502	587	352	587	502	397
55°	300	421	262	421	300	273
65°	175	264	147	264	175	176
75°	81	130	69	130	81	89
85°	20	29	20	29	20	23
90°	45	4	45	4	45	20
95°	44	83	44	83	44	35
105°	430	454	430	454	430	375
115°	854	848	854	848	854	845
125°	1200	1191	1200	1191	1200	1069
135°	1488	1478	1488	1478	1488	1146
145°	1713	1704	1713	1704	1713	1071
155°	1867	1868	1867	1868	1867	861
165°	1962	1971	1962	1971	1962	554
175°	2004	2016	2004	2016	2004	191
180°	2016	2016	2016	2016	2016	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	1018.6	1021.4	1018.6	1018.3	1015.2	1014.3	1013.0	1009.0	1001.5	997.1	998.1
5°	1115.9	1125.6	1120.2	1119.4	1110.8	1102.3	1096.8	1084.4	1071.1	1062.2	1054.8
7.5°	1228.4	1234.0	1230.6	1225.1	1211.3	1203.4	1190.8	1174.4	1150.7	1132.5	1116.0
10°	1305.0	1309.6	1308.1	1298.0	1287.9	1267.2	1255.6	1232.6	1202.6	1178.9	1156.7
12.5°	1380.3	1385.3	1371.6	1372.1	1352.9	1336.6	1318.1	1289.3	1254.6	1224.0	1196.3
15°	1478.5	1472.3	1472.3	1464.5	1443.1	1420.5	1401.5	1371.1	1327.5	1291.0	1252.5
17.5°	1555.4	1557.6	1554.4	1536.0	1519.2	1495.9	1460.9	1425.5	1385.0	1335.9	1296.6
20°	1601.5	1601.5	1598.0	1585.5	1563.7	1538.8	1501.1	1462.6	1411.2	1361.8	1317.4
22.5°	1620.1	1621.4	1617.3	1607.0	1587.4	1563.1	1531.0	1491.8	1438.9	1383.3	1328.3
25°	1594.5	1601.8	1602.6	1599.9	1594.1	1579.3	1551.7	1511.6	1464.1	1403.8	1344.7
27.5°	1463.9	1473.2	1481.4	1494.8	1512.7	1522.1	1523.3	1502.9	1461.5	1403.5	1344.0
30°	1333.8	1341.5	1366.8	1399.9	1425.6	1448.9	1469.2	1474.6	1451.3	1399.1	1336.5
32.5°	1189.3	1199.9	1225.2	1260.8	1303.6	1343.1	1388.6	1411.7	1411.1	1379.8	1321.9
35°	982.0	989.8	1013.2	1050.5	1101.9	1160.6	1232.6	1288.6	1326.8	1324.0	1288.6
37.5°	792.0	800.8	824.4	855.4	905.2	977.9	1047.6	1124.8	1195.3	1234.9	1223.0
40°	688.7	689.1	712.0	743.9	790.6	854.0	929.9	1015.5	1094.1	1158.3	1170.7
42.5°	607.1	607.2	622.4	656.8	690.4	750.1	822.5	907.5	999.5	1073.6	1106.6
45°	501.9	505.4	517.9	538.5	564.9	615.5	673.5	752.5	855.6	943.5	998.4
47.5°	425.0	430.2	438.1	454.9	476.0	509.7	557.6	628.6	712.5	809.2	887.3
50°	385.2	386.0	396.1	405.4	423.7	450.6	492.6	551.7	628.8	721.7	808.5
52.5°	351.0	350.8	356.9	368.7	383.6	404.5	438.4	492.3	560.6	643.9	733.5
55°	299.6	301.5	306.2	315.5	326.8	341.6	368.5	408.9	462.6	533.8	615.1
57.5°	260.5	261.5	265.2	269.2	279.5	290.3	310.4	338.5	383.8	442.1	517.9
60°	235.0	235.4	236.6	242.4	250.6	260.7	274.3	298.0	336.2	389.5	449.4
62.5°	210.1	210.8	212.6	216.9	223.2	230.2	244.4	263.5	295.1	340.6	394.6
65°	175.1	175.5	178.2	179.8	184.8	191.0	201.5	214.4	236.2	274.3	315.2
67.5°	146.3	146.3	146.4	148.6	152.1	156.2	162.5	172.8	189.2	212.6	248.6
70°	127.6	127.6	128.4	129.6	131.5	135.0	138.5	146.3	158.4	177.4	205.0
72.5°	110.2	110.5	111.3	111.5	112.5	115.4	118.0	122.9	131.9	146.3	168.6
75°	80.9	82.1	84.0	85.6	87.5	87.2	89.9	93.0	95.7	104.3	117.1
77.5°	60.2	59.6	59.8	61.2	61.4	61.8	63.7	66.1	68.2	72.2	76.8
80°	45.9	45.9	47.1	47.5	47.1	47.5	49.4	50.6	51.4	52.9	57.2
82.5°	34.7	35.3	34.9	35.3	35.6	36.0	37.6	37.8	38.6	39.2	41.0
85°	19.5	19.8	20.2	19.5	19.5	19.5	20.2	20.6	21.4	21.0	21.8
87.5°	15.9	15.5	15.6	15.5	15.7	15.1	15.0	15.2	14.2	14.1	13.6
90°	45.2	44.6	43.9	43.2	42.6	41.2	39.2	37.2	35.2	33.2	30.5
92.5°	41.6	41.5	41.4	41.2	41.1	40.0	38.0	36.0	34.0	32.0	29.3
95°	43.7	43.4	43.1	42.7	42.4	41.2	39.2	37.2	35.2	33.2	32.8
97.5°	42.2	41.9	41.6	41.2	40.9	40.6	40.4	40.2	40.0	39.8	77.2
100°	42.2	41.9	41.6	41.2	40.9	43.6	49.3	55.0	60.7	66.4	112.6
102.5°	43.4	43.4	43.3	43.2	43.2	73.9	135.3	196.8	258.2	319.7	325.7
105°	429.8	441.9	453.9	466.0	478.0	482.6	479.6	476.5	473.5	470.5	468.8
107.5°	599.0	597.7	596.4	595.2	593.9	592.5	591.1	589.6	588.1	586.6	584.3
110°	672.6	671.6	670.6	669.6	668.6	667.7	667.1	666.4	665.7	665.0	663.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	746.2	744.9	743.6	742.4	741.1	740.5	740.6	740.8	740.9	741.1	740.1
115°	853.6	853.6	853.6	853.6	853.6	853.2	852.5	851.9	851.2	850.5	850.9
117.5°	962.7	962.9	963.0	963.1	963.3	963.4	963.5	963.7	963.8	963.9	963.2
120°	1031.5	1032.2	1032.8	1033.5	1034.2	1034.2	1033.5	1032.8	1032.2	1031.5	1031.8
122.5°	1099.1	1099.7	1100.4	1101.1	1101.7	1101.9	1101.5	1101.1	1100.7	1100.3	1099.8
125°	1200.4	1200.1	1199.7	1199.4	1199.1	1198.4	1197.4	1196.4	1195.4	1194.4	1195.0
127.5°	1289.4	1289.6	1289.9	1290.2	1290.4	1290.7	1290.9	1291.1	1291.3	1291.5	1289.9
130°	1349.7	1349.7	1349.7	1349.7	1349.7	1349.5	1349.2	1348.9	1348.5	1348.2	1347.2
132.5°	1405.2	1405.5	1405.7	1406.0	1406.3	1406.2	1405.9	1405.6	1405.2	1404.9	1403.6
135°	1488.4	1487.8	1487.1	1486.4	1485.8	1485.1	1484.4	1483.7	1483.1	1482.4	1481.1
137.5°	1559.6	1559.8	1560.0	1560.2	1560.4	1560.2	1559.4	1558.7	1557.9	1557.2	1555.7
140°	1609.1	1608.7	1608.4	1608.1	1607.7	1607.1	1606.1	1605.1	1604.1	1603.0	1602.4
142.5°	1650.1	1650.0	1650.0	1649.9	1649.8	1649.4	1648.7	1648.0	1647.2	1646.5	1646.1
145°	1713.1	1712.5	1711.8	1711.1	1710.5	1709.9	1709.6	1709.3	1708.9	1708.6	1708.6
147.5°	1765.3	1765.0	1764.6	1764.3	1764.0	1763.7	1763.4	1763.1	1762.9	1762.6	1762.9
150°	1799.1	1798.8	1798.4	1798.1	1797.8	1797.6	1797.6	1797.6	1797.6	1797.6	1797.9
152.5°	1828.0	1828.2	1828.4	1828.6	1828.8	1828.7	1828.1	1827.6	1827.1	1826.5	1827.1
155°	1867.0	1868.0	1869.0	1870.0	1871.0	1870.8	1869.5	1868.1	1866.8	1865.4	1866.5
157.5°	1899.5	1901.3	1903.0	1904.8	1906.5	1906.5	1904.8	1903.0	1901.3	1899.5	1900.7
160°	1921.2	1923.3	1925.3	1927.3	1929.3	1929.3	1927.3	1925.3	1923.3	1921.2	1921.6
162.5°	1938.1	1940.4	1942.7	1945.0	1947.2	1947.4	1945.4	1943.4	1941.3	1939.3	1939.7
165°	1962.0	1965.0	1968.0	1971.0	1974.0	1974.2	1971.5	1968.8	1966.1	1963.5	1963.5
167.5°	1979.8	1983.1	1986.5	1989.8	1993.2	1993.4	1990.4	1987.5	1984.5	1981.6	1981.8
170°	1990.6	1994.0	1997.3	2000.7	2004.0	2004.4	2001.7	1999.0	1996.3	1993.6	1993.3
172.5°	1996.6	2000.3	2003.9	2007.5	2011.1	2011.6	2008.9	2006.2	2003.5	2000.9	2000.5
175°	2004.2	2008.2	2012.2	2016.2	2020.3	2020.8	2017.8	2014.7	2011.7	2008.7	2008.4
177.5°	2009.0	2012.2	2015.4	2018.7	2021.9	2022.4	2020.3	2018.1	2016.0	2013.8	2013.3
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	995.0	990.6	988.4	983.4	977.5	974.4	971.6	967.6	962.3	956.7	952.6
5°	1045.5	1036.1	1024.4	1010.4	998.0	985.9	975.4	964.9	952.9	940.4	928.0
7.5°	1097.3	1078.9	1059.1	1036.1	1013.8	993.5	974.8	956.9	936.7	918.5	902.0
10°	1133.4	1108.5	1080.9	1051.7	1022.5	997.2	972.3	949.7	924.8	902.7	884.0
12.5°	1162.7	1133.4	1100.2	1063.8	1028.7	998.1	969.5	940.1	911.8	887.7	862.8
15°	1211.2	1171.1	1126.4	1082.8	1037.3	995.7	957.1	922.9	890.6	856.8	833.0
17.5°	1244.6	1197.0	1142.7	1090.3	1036.5	987.4	943.0	902.2	864.9	830.4	802.1
20°	1264.5	1212.0	1151.7	1092.1	1031.8	979.3	931.5	886.3	847.8	810.5	781.3
22.5°	1275.7	1217.6	1151.7	1089.3	1026.9	970.0	917.5	870.5	828.5	791.2	758.9
25°	1279.3	1217.0	1149.7	1078.1	1009.7	949.4	894.9	843.9	797.2	759.9	725.6
27.5°	1274.3	1201.0	1132.1	1058.6	988.0	924.4	867.2	813.6	766.9	726.8	691.7
30°	1266.8	1188.3	1114.3	1038.1	966.5	905.4	845.1	793.7	745.1	703.5	668.1
32.5°	1250.7	1172.7	1093.2	1015.0	942.5	879.6	822.4	770.7	723.0	680.4	642.8
35°	1218.6	1139.6	1053.2	973.1	901.9	836.5	782.8	733.0	687.5	642.0	602.3
37.5°	1176.3	1095.7	1009.7	922.0	850.7	789.0	739.7	693.0	648.5	607.0	563.0
40°	1136.5	1063.0	974.3	887.1	814.0	754.4	708.9	666.5	621.8	580.5	536.5
42.5°	1088.3	1025.6	936.0	848.5	776.3	718.9	676.5	635.1	594.4	554.4	508.5
45°	1007.7	960.3	876.2	792.2	719.4	662.6	623.7	587.1	551.3	513.2	470.0
47.5°	915.4	883.3	810.8	724.7	657.4	606.3	568.7	538.8	508.5	470.4	432.5
50°	851.3	830.7	760.7	682.1	617.9	570.8	532.3	504.2	479.0	442.4	408.5
52.5°	782.8	771.9	712.7	637.5	575.5	529.4	496.5	471.3	445.7	415.3	383.6
55°	678.6	684.4	634.2	569.2	510.9	472.0	442.0	421.0	399.2	373.5	349.0
57.5°	571.9	593.3	559.6	502.5	447.8	411.9	389.3	371.6	353.4	332.0	311.1
60°	508.1	526.0	507.0	456.8	408.9	375.5	354.5	340.8	322.5	303.1	287.1
62.5°	445.9	465.0	453.7	413.2	368.8	340.0	321.5	308.8	295.2	278.2	261.6
65°	367.7	380.1	374.7	346.7	315.2	290.6	273.5	264.2	251.7	239.3	224.5
67.5°	281.6	305.7	302.5	287.6	260.4	241.2	230.0	221.8	210.4	201.2	191.1
70°	231.5	253.7	253.3	241.2	226.4	208.5	200.8	193.8	183.6	174.7	166.5
72.5°	189.5	209.8	212.8	203.6	193.5	179.9	172.4	167.6	157.8	151.7	145.0
75°	132.7	147.5	151.4	151.4	146.7	139.7	133.1	130.0	122.9	117.5	113.6
77.5°	87.0	96.3	102.4	103.8	104.5	102.2	96.7	94.5	89.2	87.2	83.5
80°	61.5	67.7	74.7	77.0	79.0	78.2	75.9	74.3	69.3	67.3	65.8
82.5°	42.5	45.9	51.7	56.8	56.3	58.3	56.3	55.0	51.2	50.5	48.9
85°	22.2	22.6	23.3	26.8	28.8	29.6	30.0	29.2	28.0	28.0	25.3
87.5°	13.0	12.2	12.3	11.6	11.2	11.7	11.9	11.5	11.3	11.1	10.9
90°	27.8	25.1	22.5	19.3	15.6	11.9	8.2	4.5	8.2	11.9	15.6
92.5°	26.6	23.9	21.2	19.8	19.6	19.4	19.2	19.0	19.2	19.4	19.6
95°	32.5	32.2	31.8	37.4	48.8	60.2	71.5	82.9	71.5	60.2	48.8
97.5°	114.6	152.0	189.4	204.6	197.5	190.3	183.2	176.1	183.2	190.3	197.5
100°	158.8	205.1	251.3	271.4	265.4	259.4	253.4	247.3	253.4	259.4	265.4
102.5°	331.8	337.8	343.8	344.6	340.2	335.8	331.4	326.9	331.4	335.8	340.2
105°	467.2	465.5	463.8	462.0	460.0	457.9	455.9	453.9	455.9	457.9	460.0
107.5°	582.1	579.8	577.5	575.9	574.9	573.9	572.9	571.8	572.9	573.9	574.9
110°	661.0	659.0	657.0	655.5	654.5	653.5	652.5	651.5	652.5	653.5	654.5



TEST NUMBER: P333051

CATALOG NUMBER: S124RDIW-S575D1560U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	739.2	738.2	737.3	735.9	734.1	732.3	730.5	728.7	730.5	732.3	734.1
115°	851.2	851.5	851.9	851.5	850.5	849.5	848.5	847.5	848.5	849.5	850.5
117.5°	962.5	961.7	961.0	960.0	958.6	957.3	955.9	954.6	955.9	957.3	958.6
120°	1032.2	1032.5	1032.8	1032.3	1031.0	1029.7	1028.3	1027.0	1028.3	1029.7	1031.0
122.5°	1099.3	1098.9	1098.4	1097.8	1096.9	1096.1	1095.3	1094.5	1095.3	1096.1	1096.9
125°	1195.7	1196.4	1197.0	1196.7	1195.4	1194.0	1192.7	1191.4	1192.7	1194.0	1195.4
127.5°	1288.4	1286.9	1285.3	1284.4	1284.0	1283.7	1283.4	1283.0	1283.4	1283.7	1284.0
130°	1346.2	1345.2	1344.2	1343.5	1343.2	1342.8	1342.5	1342.2	1342.5	1342.8	1343.2
132.5°	1402.3	1401.1	1399.8	1398.9	1398.3	1397.7	1397.0	1396.4	1397.0	1397.7	1398.3
135°	1479.7	1478.4	1477.0	1476.5	1476.9	1477.2	1477.5	1477.9	1477.5	1477.2	1476.9
137.5°	1554.3	1552.8	1551.3	1550.5	1550.4	1550.2	1550.1	1550.0	1550.1	1550.2	1550.4
140°	1601.7	1601.0	1600.4	1599.7	1599.0	1598.4	1597.7	1597.0	1597.7	1598.4	1599.0
142.5°	1645.7	1645.3	1644.9	1644.1	1642.9	1641.7	1640.4	1639.2	1640.4	1641.7	1642.9
145°	1708.6	1708.6	1708.6	1708.1	1707.1	1706.1	1705.1	1704.1	1705.1	1706.1	1707.1
147.5°	1763.3	1763.6	1763.9	1763.2	1761.3	1759.4	1757.5	1755.7	1757.5	1759.4	1761.3
150°	1798.3	1798.6	1798.9	1798.4	1797.1	1795.7	1794.4	1793.1	1794.4	1795.7	1797.1
152.5°	1827.7	1828.3	1829.0	1828.7	1827.6	1826.6	1825.5	1824.4	1825.5	1826.6	1827.6
155°	1867.5	1868.5	1869.5	1869.8	1869.5	1869.1	1868.8	1868.5	1868.8	1869.1	1869.5
157.5°	1901.8	1902.9	1904.1	1904.8	1905.0	1905.2	1905.4	1905.6	1905.4	1905.2	1905.0
160°	1921.9	1922.2	1922.6	1923.3	1924.3	1925.3	1926.3	1927.3	1926.3	1925.3	1924.3
162.5°	1940.0	1940.3	1940.7	1941.5	1942.8	1944.0	1945.3	1946.6	1945.3	1944.0	1942.8
165°	1963.5	1963.5	1963.5	1964.3	1966.0	1967.7	1969.3	1971.0	1969.3	1967.7	1966.0
167.5°	1982.0	1982.2	1982.4	1983.3	1985.1	1986.8	1988.6	1990.3	1988.6	1986.8	1985.1
170°	1993.0	1992.6	1992.3	1993.1	1995.1	1997.1	1999.2	2001.2	1999.2	1997.1	1995.1
172.5°	2000.2	1999.9	1999.5	2000.4	2002.4	2004.4	2006.4	2008.4	2006.4	2004.4	2002.4
175°	2008.0	2007.7	2007.4	2008.2	2010.2	2012.2	2014.2	2016.2	2014.2	2012.2	2010.2
177.5°	2012.8	2012.2	2011.7	2012.4	2014.2	2016.1	2018.0	2019.9	2018.0	2016.1	2014.2
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



TEST NUMBER: P333051

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	948.3	945.2	941.1	936.4	930.8	925.9	923.7	925.5	926.5	924.0	923.7
5°	919.4	909.7	901.9	890.2	880.9	873.1	867.6	865.3	866.1	859.9	858.3
7.5°	886.9	875.4	862.7	848.8	835.9	824.5	818.5	815.2	808.6	805.8	801.0
10°	866.1	850.5	838.1	821.7	807.0	793.3	786.7	781.3	774.7	771.5	764.9
12.5°	844.6	826.6	812.9	795.9	780.8	764.4	758.1	748.0	737.6	731.1	722.6
15°	814.3	792.6	775.8	755.6	737.7	719.0	702.3	683.6	676.6	661.8	653.3
17.5°	778.9	756.8	736.1	709.0	681.4	658.2	640.3	622.5	611.7	602.3	597.9
20°	755.6	735.4	706.6	675.1	644.3	618.6	604.2	592.6	580.9	574.3	569.6
22.5°	733.5	707.7	674.2	640.2	609.5	589.4	577.2	565.2	555.7	549.4	543.2
25°	696.5	662.6	627.2	588.3	567.3	549.8	536.5	526.8	521.0	512.8	509.7
27.5°	658.4	617.4	578.3	552.2	530.3	514.3	502.8	495.5	488.1	482.8	478.8
30°	629.1	587.5	552.5	527.6	505.4	492.2	482.8	474.3	468.5	464.2	461.1
32.5°	600.2	558.6	529.1	502.4	484.9	472.0	462.0	455.6	451.0	445.5	443.6
35°	558.3	521.4	495.7	471.6	453.7	442.0	434.2	427.6	423.7	422.2	421.0
37.5°	518.1	487.8	460.2	440.4	424.5	415.3	406.1	402.9	400.2	397.4	398.7
40°	492.6	464.2	439.7	418.7	405.8	395.7	390.2	386.4	384.0	384.0	384.0
42.5°	470.5	442.7	418.8	400.0	387.1	378.6	372.5	369.2	368.5	368.1	370.0
45°	436.2	410.5	386.4	370.8	359.9	351.3	347.8	345.1	345.1	346.7	347.1
47.5°	402.2	378.1	358.7	341.3	331.3	326.0	322.9	321.5	321.7	323.2	325.0
50°	381.3	357.6	338.5	322.9	313.6	308.5	305.8	305.0	305.8	305.8	308.5
52.5°	358.6	337.3	318.6	305.5	294.9	290.2	288.7	287.6	288.1	289.3	290.5
55°	325.3	306.2	288.3	275.9	268.1	265.0	261.5	261.9	261.1	261.9	261.9
57.5°	291.9	274.8	258.1	248.2	241.4	236.9	233.1	234.1	233.0	232.8	232.2
60°	270.4	251.7	238.5	229.6	221.8	217.9	214.4	215.2	214.0	213.2	211.7
62.5°	247.1	231.5	218.9	210.3	204.0	199.5	196.0	195.2	192.5	189.9	186.4
65°	213.2	200.4	189.1	180.9	175.1	171.6	168.9	166.5	160.7	154.5	151.4
67.5°	180.3	171.0	160.5	153.6	148.9	144.3	139.1	135.1	129.6	126.2	124.3
70°	159.1	150.2	141.2	134.6	129.6	125.3	119.4	116.7	112.8	111.3	109.3
72.5°	138.9	130.6	122.2	116.3	110.9	107.5	103.0	100.2	98.5	97.9	95.9
75°	108.2	101.6	95.3	89.9	85.6	83.3	81.3	79.4	78.6	75.1	73.1
77.5°	78.9	74.5	70.7	66.8	63.7	62.2	58.4	56.2	54.9	53.2	52.8
80°	61.5	58.4	54.5	52.1	47.9	46.3	44.7	44.4	44.0	43.6	43.2
82.5°	46.2	43.1	39.2	37.8	36.7	35.7	34.8	34.4	34.0	34.2	34.2
85°	23.3	21.8	21.8	21.4	21.0	20.6	20.2	20.2	19.8	20.2	19.8
87.5°	11.6	12.0	12.5	12.4	13.3	13.8	13.9	14.3	15.0	14.8	15.0
90°	19.3	22.5	25.1	27.8	30.5	33.2	35.2	37.2	39.2	41.2	42.6
92.5°	19.8	21.2	23.9	26.6	29.3	32.0	34.0	36.0	38.0	40.0	41.1
95°	37.4	31.8	32.2	32.5	32.8	33.2	35.2	37.2	39.2	41.2	42.4
97.5°	204.6	189.4	152.0	114.6	77.2	39.8	40.0	40.2	40.4	40.6	40.9
100°	271.4	251.3	205.1	158.8	112.6	66.4	60.7	55.0	49.3	43.6	40.9
102.5°	344.6	343.8	337.8	331.8	325.7	319.7	258.2	196.8	135.3	73.9	43.2
105°	462.0	463.8	465.5	467.2	468.8	470.5	473.5	476.5	479.6	482.6	478.0
107.5°	575.9	577.5	579.8	582.1	584.3	586.6	588.1	589.6	591.1	592.5	593.9
110°	655.5	657.0	659.0	661.0	663.0	665.0	665.7	666.4	667.1	667.7	668.6



TEST NUMBER: P333051

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	735.9	737.3	738.2	739.2	740.1	741.1	740.9	740.8	740.6	740.5	741.1
115°	851.5	851.9	851.5	851.2	850.9	850.5	851.2	851.9	852.5	853.2	853.6
117.5°	960.0	961.0	961.7	962.5	963.2	963.9	963.8	963.7	963.5	963.4	963.3
120°	1032.3	1032.8	1032.5	1032.2	1031.8	1031.5	1032.2	1032.8	1033.5	1034.2	1034.2
122.5°	1097.8	1098.4	1098.9	1099.3	1099.8	1100.3	1100.7	1101.1	1101.5	1101.9	1101.7
125°	1196.7	1197.0	1196.4	1195.7	1195.0	1194.4	1195.4	1196.4	1197.4	1198.4	1199.1
127.5°	1284.4	1285.3	1286.9	1288.4	1289.9	1291.5	1291.3	1291.1	1290.9	1290.7	1290.4
130°	1343.5	1344.2	1345.2	1346.2	1347.2	1348.2	1348.5	1348.9	1349.2	1349.5	1349.7
132.5°	1398.9	1399.8	1401.1	1402.3	1403.6	1404.9	1405.2	1405.6	1405.9	1406.2	1406.3
135°	1476.5	1477.0	1478.4	1479.7	1481.1	1482.4	1483.1	1483.7	1484.4	1485.1	1485.8
137.5°	1550.5	1551.3	1552.8	1554.3	1555.7	1557.2	1557.9	1558.7	1559.4	1560.2	1560.4
140°	1599.7	1600.4	1601.0	1601.7	1602.4	1603.0	1604.1	1605.1	1606.1	1607.1	1607.7
142.5°	1644.1	1644.9	1645.3	1645.7	1646.1	1646.5	1647.2	1648.0	1648.7	1649.4	1649.8
145°	1708.1	1708.6	1708.6	1708.6	1708.6	1708.6	1708.9	1709.3	1709.6	1709.9	1710.5
147.5°	1763.2	1763.9	1763.6	1763.3	1762.9	1762.6	1762.9	1763.1	1763.4	1763.7	1764.0
150°	1798.4	1798.9	1798.6	1798.3	1797.9	1797.6	1797.6	1797.6	1797.6	1797.6	1797.8
152.5°	1828.7	1829.0	1828.3	1827.7	1827.1	1826.5	1827.1	1827.6	1828.1	1828.7	1828.8
155°	1869.8	1869.5	1868.5	1867.5	1866.5	1865.4	1866.8	1868.1	1869.5	1870.8	1871.0
157.5°	1904.8	1904.1	1902.9	1901.8	1900.7	1899.5	1901.3	1903.0	1904.8	1906.5	1906.5
160°	1923.3	1922.6	1922.2	1921.9	1921.6	1921.2	1923.3	1925.3	1927.3	1929.3	1929.3
162.5°	1941.5	1940.7	1940.3	1940.0	1939.7	1939.3	1941.3	1943.4	1945.4	1947.4	1947.2
165°	1964.3	1963.5	1963.5	1963.5	1963.5	1963.5	1966.1	1968.8	1971.5	1974.2	1974.0
167.5°	1983.3	1982.4	1982.2	1982.0	1981.8	1981.6	1984.5	1987.5	1990.4	1993.4	1993.2
170°	1993.1	1992.3	1992.6	1993.0	1993.3	1993.6	1996.3	1999.0	2001.7	2004.4	2004.0
172.5°	2000.4	1999.5	1999.9	2000.2	2000.5	2000.9	2003.5	2006.2	2008.9	2011.6	2011.1
175°	2008.2	2007.4	2007.7	2008.0	2008.4	2008.7	2011.7	2014.7	2017.8	2020.8	2020.3
177.5°	2012.4	2011.7	2012.2	2012.8	2013.3	2013.8	2016.0	2018.1	2020.3	2022.4	2021.9
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



TEST NUMBER: P333051

CATALOG NUMBER: S124RDIW-S575D1560U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	921.8	922.4	920.3	919.6	920.3	922.4	921.8	923.7	924.0	926.5	925.5
5°	855.2	854.4	852.5	852.9	852.5	854.4	855.2	858.3	859.9	866.1	865.3
7.5°	798.2	795.2	796.1	792.9	796.1	795.2	798.2	801.0	805.8	808.6	815.2
10°	763.4	759.1	755.6	752.5	755.6	759.1	763.4	764.9	771.5	774.7	781.3
12.5°	715.8	712.1	707.3	708.3	707.3	712.1	715.8	722.6	731.1	737.6	748.0
15°	648.2	642.4	633.0	634.2	633.0	642.4	648.2	653.3	661.8	676.6	683.6
17.5°	591.0	591.1	586.8	587.8	586.8	591.1	591.0	597.9	602.3	611.7	622.5
20°	561.4	558.7	559.1	557.9	559.1	558.7	561.4	569.6	574.3	580.9	592.6
22.5°	540.9	537.6	534.8	532.4	534.8	537.6	540.9	543.2	549.4	555.7	565.2
25°	506.2	503.9	500.4	499.6	500.4	503.9	506.2	509.7	512.8	521.0	526.8
27.5°	475.7	475.2	473.8	472.0	473.8	475.2	475.7	478.8	482.8	488.1	495.5
30°	457.9	457.2	456.4	455.2	456.4	457.2	457.9	461.1	464.2	468.5	474.3
32.5°	442.1	441.6	440.8	440.9	440.8	441.6	442.1	443.6	445.5	451.0	455.6
35°	419.4	419.0	418.3	417.9	418.3	419.0	419.4	421.0	422.2	423.7	427.6
37.5°	398.3	399.3	398.8	398.7	398.8	399.3	398.3	398.7	397.4	400.2	402.9
40°	383.6	384.0	384.8	384.4	384.8	384.0	383.6	384.0	384.0	384.0	386.4
42.5°	371.5	371.6	372.7	371.3	372.7	371.6	371.5	370.0	368.1	368.5	369.2
45°	349.8	352.1	351.7	351.7	351.7	352.1	349.8	347.1	346.7	345.1	345.1
47.5°	326.0	328.1	328.6	328.5	328.6	328.1	326.0	325.0	323.2	321.7	321.5
50°	310.5	309.7	310.9	310.5	310.9	309.7	310.5	308.5	305.8	305.8	305.0
52.5°	291.5	291.7	291.6	291.2	291.6	291.7	291.5	290.5	289.3	288.1	287.6
55°	262.2	262.6	261.9	262.2	261.9	262.6	262.2	261.9	261.9	261.1	261.9
57.5°	230.5	228.6	229.4	228.5	229.4	228.6	230.5	232.2	232.8	233.0	234.1
60°	207.8	204.7	203.9	202.3	203.9	204.7	207.8	211.7	213.2	214.0	215.2
62.5°	182.2	180.1	177.4	178.7	177.4	180.1	182.2	186.4	189.9	192.5	195.2
65°	148.2	146.7	145.5	147.1	145.5	146.7	148.2	151.4	154.5	160.7	166.5
67.5°	122.7	121.9	121.9	121.1	121.9	121.9	122.7	124.3	126.2	129.6	135.1
70°	109.3	108.2	108.2	107.4	108.2	108.2	109.3	109.3	111.3	112.8	116.7
72.5°	95.6	94.5	94.8	94.3	94.8	94.5	95.6	95.9	97.9	98.5	100.2
75°	70.8	68.9	68.9	69.3	68.9	68.9	70.8	73.1	75.1	78.6	79.4
77.5°	52.8	52.4	53.0	52.3	53.0	52.4	52.8	52.8	53.2	54.9	56.2
80°	43.2	42.8	42.4	43.6	42.4	42.8	43.2	43.2	43.6	44.0	44.4
82.5°	33.5	33.5	33.4	34.9	33.4	33.5	33.5	34.2	34.2	34.0	34.4
85°	20.2	19.5	20.2	19.5	20.2	19.5	20.2	19.8	20.2	19.8	20.2
87.5°	15.8	15.6	15.5	15.9	15.5	15.6	15.8	15.0	14.8	15.0	14.3
90°	43.2	43.9	44.6	45.2	44.6	43.9	43.2	42.6	41.2	39.2	37.2
92.5°	41.2	41.4	41.5	41.6	41.5	41.4	41.2	41.1	40.0	38.0	36.0
95°	42.7	43.1	43.4	43.7	43.4	43.1	42.7	42.4	41.2	39.2	37.2
97.5°	41.2	41.6	41.9	42.2	41.9	41.6	41.2	40.9	40.6	40.4	40.2
100°	41.2	41.6	41.9	42.2	41.9	41.6	41.2	40.9	43.6	49.3	55.0
102.5°	43.2	43.3	43.4	43.4	43.4	43.3	43.2	43.2	73.9	135.3	196.8
105°	466.0	453.9	441.9	429.8	441.9	453.9	466.0	478.0	482.6	479.6	476.5
107.5°	595.2	596.4	597.7	599.0	597.7	596.4	595.2	593.9	592.5	591.1	589.6
110°	669.6	670.6	671.6	672.6	671.6	670.6	669.6	668.6	667.7	667.1	666.4



TEST NUMBER: P333051

CATALOG NUMBER: S124RDIW-S575D1560U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	742.4	743.6	744.9	746.2	744.9	743.6	742.4	741.1	740.5	740.6	740.8
115°	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.2	852.5	851.9
117.5°	963.1	963.0	962.9	962.7	962.9	963.0	963.1	963.3	963.4	963.5	963.7
120°	1033.5	1032.8	1032.2	1031.5	1032.2	1032.8	1033.5	1034.2	1034.2	1033.5	1032.8
122.5°	1101.1	1100.4	1099.7	1099.1	1099.7	1100.4	1101.1	1101.7	1101.9	1101.5	1101.1
125°	1199.4	1199.7	1200.1	1200.4	1200.1	1199.7	1199.4	1199.1	1198.4	1197.4	1196.4
127.5°	1290.2	1289.9	1289.6	1289.4	1289.6	1289.9	1290.2	1290.4	1290.7	1290.9	1291.1
130°	1349.7	1349.7	1349.7	1349.7	1349.7	1349.7	1349.7	1349.7	1349.5	1349.2	1348.9
132.5°	1406.0	1405.7	1405.5	1405.2	1405.5	1405.7	1406.0	1406.3	1406.2	1405.9	1405.6
135°	1486.4	1487.1	1487.8	1488.4	1487.8	1487.1	1486.4	1485.8	1485.1	1484.4	1483.7
137.5°	1560.2	1560.0	1559.8	1559.6	1559.8	1560.0	1560.2	1560.4	1560.2	1559.4	1558.7
140°	1608.1	1608.4	1608.7	1609.1	1608.7	1608.4	1608.1	1607.7	1607.1	1606.1	1605.1
142.5°	1649.9	1650.0	1650.0	1650.1	1650.0	1650.0	1649.9	1649.8	1649.4	1648.7	1648.0
145°	1711.1	1711.8	1712.5	1713.1	1712.5	1711.8	1711.1	1710.5	1709.9	1709.6	1709.3
147.5°	1764.3	1764.6	1765.0	1765.3	1765.0	1764.6	1764.3	1764.0	1763.7	1763.4	1763.1
150°	1798.1	1798.4	1798.8	1799.1	1798.8	1798.4	1798.1	1797.8	1797.6	1797.6	1797.6
152.5°	1828.6	1828.4	1828.2	1828.0	1828.2	1828.4	1828.6	1828.8	1828.7	1828.1	1827.6
155°	1870.0	1869.0	1868.0	1867.0	1868.0	1869.0	1870.0	1871.0	1870.8	1869.5	1868.1
157.5°	1904.8	1903.0	1901.3	1899.5	1901.3	1903.0	1904.8	1906.5	1906.5	1904.8	1903.0
160°	1927.3	1925.3	1923.3	1921.2	1923.3	1925.3	1927.3	1929.3	1929.3	1927.3	1925.3
162.5°	1945.0	1942.7	1940.4	1938.1	1940.4	1942.7	1945.0	1947.2	1947.4	1945.4	1943.4
165°	1971.0	1968.0	1965.0	1962.0	1965.0	1968.0	1971.0	1974.0	1974.2	1971.5	1968.8
167.5°	1989.8	1986.5	1983.1	1979.8	1983.1	1986.5	1989.8	1993.2	1993.4	1990.4	1987.5
170°	2000.7	1997.3	1994.0	1990.6	1994.0	1997.3	2000.7	2004.0	2004.4	2001.7	1999.0
172.5°	2007.5	2003.9	2000.3	1996.6	2000.3	2003.9	2007.5	2011.1	2011.6	2008.9	2006.2
175°	2016.2	2012.2	2008.2	2004.2	2008.2	2012.2	2016.2	2020.3	2020.8	2017.8	2014.7
177.5°	2018.7	2015.4	2012.2	2009.0	2012.2	2015.4	2018.7	2021.9	2022.4	2020.3	2018.1
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	923.7	925.9	930.8	936.4	941.1	945.2	948.3	952.6	956.7	962.3	967.6
5°	867.6	873.1	880.9	890.2	901.9	909.7	919.4	928.0	940.4	952.9	964.9
7.5°	818.5	824.5	835.9	848.8	862.7	875.4	886.9	902.0	918.5	936.7	956.9
10°	786.7	793.3	807.0	821.7	838.1	850.5	866.1	884.0	902.7	924.8	949.7
12.5°	758.1	764.4	780.8	795.9	812.9	826.6	844.6	862.8	887.7	911.8	940.1
15°	702.3	719.0	737.7	755.6	775.8	792.6	814.3	833.0	856.8	890.6	922.9
17.5°	640.3	658.2	681.4	709.0	736.1	756.8	778.9	802.1	830.4	864.9	902.2
20°	604.2	618.6	644.3	675.1	706.6	735.4	755.6	781.3	810.5	847.8	886.3
22.5°	577.2	589.4	609.5	640.2	674.2	707.7	733.5	758.9	791.2	828.5	870.5
25°	536.5	549.8	567.3	588.3	627.2	662.6	696.5	725.6	759.9	797.2	843.9
27.5°	502.8	514.3	530.3	552.2	578.3	617.4	658.4	691.7	726.8	766.9	813.6
30°	482.8	492.2	505.4	527.6	552.5	587.5	629.1	668.1	703.5	745.1	793.7
32.5°	462.0	472.0	484.9	502.4	529.1	558.6	600.2	642.8	680.4	723.0	770.7
35°	434.2	442.0	453.7	471.6	495.7	521.4	558.3	602.3	642.0	687.5	733.0
37.5°	406.1	415.3	424.5	440.4	460.2	487.8	518.1	563.0	607.0	648.5	693.0
40°	390.2	395.7	405.8	418.7	439.7	464.2	492.6	536.5	580.5	621.8	666.5
42.5°	372.5	378.6	387.1	400.0	418.8	442.7	470.5	508.5	554.4	594.4	635.1
45°	347.8	351.3	359.9	370.8	386.4	410.5	436.2	470.0	513.2	551.3	587.1
47.5°	322.9	326.0	331.3	341.3	358.7	378.1	402.2	432.5	470.4	508.5	538.8
50°	305.8	308.5	313.6	322.9	338.5	357.6	381.3	408.5	442.4	479.0	504.2
52.5°	288.7	290.2	294.9	305.5	318.6	337.3	358.6	383.6	415.3	445.7	471.3
55°	261.5	265.0	268.1	275.9	288.3	306.2	325.3	349.0	373.5	399.2	421.0
57.5°	233.1	236.9	241.4	248.2	258.1	274.8	291.9	311.1	332.0	353.4	371.6
60°	214.4	217.9	221.8	229.6	238.5	251.7	270.4	287.1	303.1	322.5	340.8
62.5°	196.0	199.5	204.0	210.3	218.9	231.5	247.1	261.6	278.2	295.2	308.8
65°	168.9	171.6	175.1	180.9	189.1	200.4	213.2	224.5	239.3	251.7	264.2
67.5°	139.1	144.3	148.9	153.6	160.5	171.0	180.3	191.1	201.2	210.4	221.8
70°	119.4	125.3	129.6	134.6	141.2	150.2	159.1	166.5	174.7	183.6	193.8
72.5°	103.0	107.5	110.9	116.3	122.2	130.6	138.9	145.0	151.7	157.8	167.6
75°	81.3	83.3	85.6	89.9	95.3	101.6	108.2	113.6	117.5	122.9	130.0
77.5°	58.4	62.2	63.7	66.8	70.7	74.5	78.9	83.5	87.2	89.2	94.5
80°	44.7	46.3	47.9	52.1	54.5	58.4	61.5	65.8	67.3	69.3	74.3
82.5°	34.8	35.7	36.7	37.8	39.2	43.1	46.2	48.9	50.5	51.2	55.0
85°	20.2	20.6	21.0	21.4	21.8	21.8	23.3	25.3	28.0	28.0	29.2
87.5°	13.9	13.8	13.3	12.4	12.5	12.0	11.6	10.9	11.1	11.3	11.5
90°	35.2	33.2	30.5	27.8	25.1	22.5	19.3	15.6	11.9	8.2	4.5
92.5°	34.0	32.0	29.3	26.6	23.9	21.2	19.8	19.6	19.4	19.2	19.0
95°	35.2	33.2	32.8	32.5	32.2	31.8	37.4	48.8	60.2	71.5	82.9
97.5°	40.0	39.8	77.2	114.6	152.0	189.4	204.6	197.5	190.3	183.2	176.1
100°	60.7	66.4	112.6	158.8	205.1	251.3	271.4	265.4	259.4	253.4	247.3
102.5°	258.2	319.7	325.7	331.8	337.8	343.8	344.6	340.2	335.8	331.4	326.9
105°	473.5	470.5	468.8	467.2	465.5	463.8	462.0	460.0	457.9	455.9	453.9
107.5°	588.1	586.6	584.3	582.1	579.8	577.5	575.9	574.9	573.9	572.9	571.8
110°	665.7	665.0	663.0	661.0	659.0	657.0	655.5	654.5	653.5	652.5	651.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	740.9	741.1	740.1	739.2	738.2	737.3	735.9	734.1	732.3	730.5	728.7
115°	851.2	850.5	850.9	851.2	851.5	851.9	851.5	850.5	849.5	848.5	847.5
117.5°	963.8	963.9	963.2	962.5	961.7	961.0	960.0	958.6	957.3	955.9	954.6
120°	1032.2	1031.5	1031.8	1032.2	1032.5	1032.8	1032.3	1031.0	1029.7	1028.3	1027.0
122.5°	1100.7	1100.3	1099.8	1099.3	1098.9	1098.4	1097.8	1096.9	1096.1	1095.3	1094.5
125°	1195.4	1194.4	1195.0	1195.7	1196.4	1197.0	1196.7	1195.4	1194.0	1192.7	1191.4
127.5°	1291.3	1291.5	1289.9	1288.4	1286.9	1285.3	1284.4	1284.0	1283.7	1283.4	1283.0
130°	1348.5	1348.2	1347.2	1346.2	1345.2	1344.2	1343.5	1343.2	1342.8	1342.5	1342.2
132.5°	1405.2	1404.9	1403.6	1402.3	1401.1	1399.8	1398.9	1398.3	1397.7	1397.0	1396.4
135°	1483.1	1482.4	1481.1	1479.7	1478.4	1477.0	1476.5	1476.9	1477.2	1477.5	1477.9
137.5°	1557.9	1557.2	1555.7	1554.3	1552.8	1551.3	1550.5	1550.4	1550.2	1550.1	1550.0
140°	1604.1	1603.0	1602.4	1601.7	1601.0	1600.4	1599.7	1599.0	1598.4	1597.7	1597.0
142.5°	1647.2	1646.5	1646.1	1645.7	1645.3	1644.9	1644.1	1642.9	1641.7	1640.4	1639.2
145°	1708.9	1708.6	1708.6	1708.6	1708.6	1708.6	1708.1	1707.1	1706.1	1705.1	1704.1
147.5°	1762.9	1762.6	1762.9	1763.3	1763.6	1763.9	1763.2	1761.3	1759.4	1757.5	1755.7
150°	1797.6	1797.6	1797.9	1798.3	1798.6	1798.9	1798.4	1797.1	1795.7	1794.4	1793.1
152.5°	1827.1	1826.5	1827.1	1827.7	1828.3	1829.0	1828.7	1827.6	1826.6	1825.5	1824.4
155°	1866.8	1865.4	1866.5	1867.5	1868.5	1869.5	1869.8	1869.5	1869.1	1868.8	1868.5
157.5°	1901.3	1899.5	1900.7	1901.8	1902.9	1904.1	1904.8	1905.0	1905.2	1905.4	1905.6
160°	1923.3	1921.2	1921.6	1921.9	1922.2	1922.6	1923.3	1924.3	1925.3	1926.3	1927.3
162.5°	1941.3	1939.3	1939.7	1940.0	1940.3	1940.7	1941.5	1942.8	1944.0	1945.3	1946.6
165°	1966.1	1963.5	1963.5	1963.5	1963.5	1963.5	1964.3	1966.0	1967.7	1969.3	1971.0
167.5°	1984.5	1981.6	1981.8	1982.0	1982.2	1982.4	1983.3	1985.1	1986.8	1988.6	1990.3
170°	1996.3	1993.6	1993.3	1993.0	1992.6	1992.3	1993.1	1995.1	1997.1	1999.2	2001.2
172.5°	2003.5	2000.9	2000.5	2000.2	1999.9	1999.5	2000.4	2002.4	2004.4	2006.4	2008.4
175°	2011.7	2008.7	2008.4	2008.0	2007.7	2007.4	2008.2	2010.2	2012.2	2014.2	2016.2
177.5°	2016.0	2013.8	2013.3	2012.8	2012.2	2011.7	2012.4	2014.2	2016.1	2018.0	2019.9
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	971.6	974.4	977.5	983.4	988.4	990.6	995.0	998.1	997.1	1001.5	1009.0
5°	975.4	985.9	998.0	1010.4	1024.4	1036.1	1045.5	1054.8	1062.2	1071.1	1084.4
7.5°	974.8	993.5	1013.8	1036.1	1059.1	1078.9	1097.3	1116.0	1132.5	1150.7	1174.4
10°	972.3	997.2	1022.5	1051.7	1080.9	1108.5	1133.4	1156.7	1178.9	1202.6	1232.6
12.5°	969.5	998.1	1028.7	1063.8	1100.2	1133.4	1162.7	1196.3	1224.0	1254.6	1289.3
15°	957.1	995.7	1037.3	1082.8	1126.4	1171.1	1211.2	1252.5	1291.0	1327.5	1371.1
17.5°	943.0	987.4	1036.5	1090.3	1142.7	1197.0	1244.6	1296.6	1335.9	1385.0	1425.5
20°	931.5	979.3	1031.8	1092.1	1151.7	1212.0	1264.5	1317.4	1361.8	1411.2	1462.6
22.5°	917.5	970.0	1026.9	1089.3	1151.7	1217.6	1275.7	1328.3	1383.3	1438.9	1491.8
25°	894.9	949.4	1009.7	1078.1	1149.7	1217.0	1279.3	1344.7	1403.8	1464.1	1511.6
27.5°	867.2	924.4	988.0	1058.6	1132.1	1201.0	1274.3	1344.0	1403.5	1461.5	1502.9
30°	845.1	905.4	966.5	1038.1	1114.3	1188.3	1266.8	1336.5	1399.1	1451.3	1474.6
32.5°	822.4	879.6	942.5	1015.0	1093.2	1172.7	1250.7	1321.9	1379.8	1411.1	1411.7
35°	782.8	836.5	901.9	973.1	1053.2	1139.6	1218.6	1288.6	1324.0	1326.8	1288.6
37.5°	739.7	789.0	850.7	922.0	1009.7	1095.7	1176.3	1223.0	1234.9	1195.3	1124.8
40°	708.9	754.4	814.0	887.1	974.3	1063.0	1136.5	1170.7	1158.3	1094.1	1015.5
42.5°	676.5	718.9	776.3	848.5	936.0	1025.6	1088.3	1106.6	1073.6	999.5	907.5
45°	623.7	662.6	719.4	792.2	876.2	960.3	1007.7	998.4	943.5	855.6	752.5
47.5°	568.7	606.3	657.4	724.7	810.8	883.3	915.4	887.3	809.2	712.5	628.6
50°	532.3	570.8	617.9	682.1	760.7	830.7	851.3	808.5	721.7	628.8	551.7
52.5°	496.5	529.4	575.5	637.5	712.7	771.9	782.8	733.5	643.9	560.6	492.3
55°	442.0	472.0	510.9	569.2	634.2	684.4	678.6	615.1	533.8	462.6	408.9
57.5°	389.3	411.9	447.8	502.5	559.6	593.3	571.9	517.9	442.1	383.8	338.5
60°	354.5	375.5	408.9	456.8	507.0	526.0	508.1	449.4	389.5	336.2	298.0
62.5°	321.5	340.0	368.8	413.2	453.7	465.0	445.9	394.6	340.6	295.1	263.5
65°	273.5	290.6	315.2	346.7	374.7	380.1	367.7	315.2	274.3	236.2	214.4
67.5°	230.0	241.2	260.4	287.6	302.5	305.7	281.6	248.6	212.6	189.2	172.8
70°	200.8	208.5	226.4	241.2	253.3	253.7	231.5	205.0	177.4	158.4	146.3
72.5°	172.4	179.9	193.5	203.6	212.8	209.8	189.5	168.6	146.3	131.9	122.9
75°	133.1	139.7	146.7	151.4	151.4	147.5	132.7	117.1	104.3	95.7	93.0
77.5°	96.7	102.2	104.5	103.8	102.4	96.3	87.0	76.8	72.2	68.2	66.1
80°	75.9	78.2	79.0	77.0	74.7	67.7	61.5	57.2	52.9	51.4	50.6
82.5°	56.3	58.3	56.3	56.8	51.7	45.9	42.5	41.0	39.2	38.6	37.8
85°	30.0	29.6	28.8	26.8	23.3	22.6	22.2	21.8	21.0	21.4	20.6
87.5°	11.9	11.7	11.2	11.6	12.3	12.2	13.0	13.6	14.1	14.2	15.2
90°	8.2	11.9	15.6	19.3	22.5	25.1	27.8	30.5	33.2	35.2	37.2
92.5°	19.2	19.4	19.6	19.8	21.2	23.9	26.6	29.3	32.0	34.0	36.0
95°	71.5	60.2	48.8	37.4	31.8	32.2	32.5	32.8	33.2	35.2	37.2
97.5°	183.2	190.3	197.5	204.6	189.4	152.0	114.6	77.2	39.8	40.0	40.2
100°	253.4	259.4	265.4	271.4	251.3	205.1	158.8	112.6	66.4	60.7	55.0
102.5°	331.4	335.8	340.2	344.6	343.8	337.8	331.8	325.7	319.7	258.2	196.8
105°	455.9	457.9	460.0	462.0	463.8	465.5	467.2	468.8	470.5	473.5	476.5
107.5°	572.9	573.9	574.9	575.9	577.5	579.8	582.1	584.3	586.6	588.1	589.6
110°	652.5	653.5	654.5	655.5	657.0	659.0	661.0	663.0	665.0	665.7	666.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	730.5	732.3	734.1	735.9	737.3	738.2	739.2	740.1	741.1	740.9	740.8
115°	848.5	849.5	850.5	851.5	851.9	851.5	851.2	850.9	850.5	851.2	851.9
117.5°	955.9	957.3	958.6	960.0	961.0	961.7	962.5	963.2	963.9	963.8	963.7
120°	1028.3	1029.7	1031.0	1032.3	1032.8	1032.5	1032.2	1031.8	1031.5	1032.2	1032.8
122.5°	1095.3	1096.1	1096.9	1097.8	1098.4	1098.9	1099.3	1099.8	1100.3	1100.7	1101.1
125°	1192.7	1194.0	1195.4	1196.7	1197.0	1196.4	1195.7	1195.0	1194.4	1195.4	1196.4
127.5°	1283.4	1283.7	1284.0	1284.4	1285.3	1286.9	1288.4	1289.9	1291.5	1291.3	1291.1
130°	1342.5	1342.8	1343.2	1343.5	1344.2	1345.2	1346.2	1347.2	1348.2	1348.5	1348.9
132.5°	1397.0	1397.7	1398.3	1398.9	1399.8	1401.1	1402.3	1403.6	1404.9	1405.2	1405.6
135°	1477.5	1477.2	1476.9	1476.5	1477.0	1478.4	1479.7	1481.1	1482.4	1483.1	1483.7
137.5°	1550.1	1550.2	1550.4	1550.5	1551.3	1552.8	1554.3	1555.7	1557.2	1557.9	1558.7
140°	1597.7	1598.4	1599.0	1599.7	1600.4	1601.0	1601.7	1602.4	1603.0	1604.1	1605.1
142.5°	1640.4	1641.7	1642.9	1644.1	1644.9	1645.3	1645.7	1646.1	1646.5	1647.2	1648.0
145°	1705.1	1706.1	1707.1	1708.1	1708.6	1708.6	1708.6	1708.6	1708.6	1708.9	1709.3
147.5°	1757.5	1759.4	1761.3	1763.2	1763.9	1763.6	1763.3	1762.9	1762.6	1762.9	1763.1
150°	1794.4	1795.7	1797.1	1798.4	1798.9	1798.6	1798.3	1797.9	1797.6	1797.6	1797.6
152.5°	1825.5	1826.6	1827.6	1828.7	1829.0	1828.3	1827.7	1827.1	1826.5	1827.1	1827.6
155°	1868.8	1869.1	1869.5	1869.8	1869.5	1868.5	1867.5	1866.5	1865.4	1866.8	1868.1
157.5°	1905.4	1905.2	1905.0	1904.8	1904.1	1902.9	1901.8	1900.7	1899.5	1901.3	1903.0
160°	1926.3	1925.3	1924.3	1923.3	1922.6	1922.2	1921.9	1921.6	1921.2	1923.3	1925.3
162.5°	1945.3	1944.0	1942.8	1941.5	1940.7	1940.3	1940.0	1939.7	1939.3	1941.3	1943.4
165°	1969.3	1967.7	1966.0	1964.3	1963.5	1963.5	1963.5	1963.5	1963.5	1966.1	1968.8
167.5°	1988.6	1986.8	1985.1	1983.3	1982.4	1982.2	1982.0	1981.8	1981.6	1984.5	1987.5
170°	1999.2	1997.1	1995.1	1993.1	1992.3	1992.6	1993.0	1993.3	1993.6	1996.3	1999.0
172.5°	2006.4	2004.4	2002.4	2000.4	1999.5	1999.9	2000.2	2000.5	2000.9	2003.5	2006.2
175°	2014.2	2012.2	2010.2	2008.2	2007.4	2007.7	2008.0	2008.4	2008.7	2011.7	2014.7
177.5°	2018.0	2016.1	2014.2	2012.4	2011.7	2012.2	2012.8	2013.3	2013.8	2016.0	2018.1
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	1013.0	1014.3	1015.2	1018.3	1018.6	1021.4	1018.6
5°	1096.8	1102.3	1110.8	1119.4	1120.2	1125.6	1115.9
7.5°	1190.8	1203.4	1211.3	1225.1	1230.6	1234.0	1228.4
10°	1255.6	1267.2	1287.9	1298.0	1308.1	1309.6	1305.0
12.5°	1318.1	1336.6	1352.9	1372.1	1371.6	1385.3	1380.3
15°	1401.5	1420.5	1443.1	1464.5	1472.3	1472.3	1478.5
17.5°	1460.9	1495.9	1519.2	1536.0	1554.4	1557.6	1555.4
20°	1501.1	1538.8	1563.7	1585.5	1598.0	1601.5	1601.5
22.5°	1531.0	1563.1	1587.4	1607.0	1617.3	1621.4	1620.1
25°	1551.7	1579.3	1594.1	1599.9	1602.6	1601.8	1594.5
27.5°	1523.3	1522.1	1512.7	1494.8	1481.4	1473.2	1463.9
30°	1469.2	1448.9	1425.6	1399.9	1366.8	1341.5	1333.8
32.5°	1388.6	1343.1	1303.6	1260.8	1225.2	1199.9	1189.3
35°	1232.6	1160.6	1101.9	1050.5	1013.2	989.8	982.0
37.5°	1047.6	977.9	905.2	855.4	824.4	800.8	792.0
40°	929.9	854.0	790.6	743.9	712.0	689.1	688.7
42.5°	822.5	750.1	690.4	656.8	622.4	607.2	607.1
45°	673.5	615.5	564.9	538.5	517.9	505.4	501.9
47.5°	557.6	509.7	476.0	454.9	438.1	430.2	425.0
50°	492.6	450.6	423.7	405.4	396.1	386.0	385.2
52.5°	438.4	404.5	383.6	368.7	356.9	350.8	351.0
55°	368.5	341.6	326.8	315.5	306.2	301.5	299.6
57.5°	310.4	290.3	279.5	269.2	265.2	261.5	260.5
60°	274.3	260.7	250.6	242.4	236.6	235.4	235.0
62.5°	244.4	230.2	223.2	216.9	212.6	210.8	210.1
65°	201.5	191.0	184.8	179.8	178.2	175.5	175.1
67.5°	162.5	156.2	152.1	148.6	146.4	146.3	146.3
70°	138.5	135.0	131.5	129.6	128.4	127.6	127.6
72.5°	118.0	115.4	112.5	111.5	111.3	110.5	110.2
75°	89.9	87.2	87.5	85.6	84.0	82.1	80.9
77.5°	63.7	61.8	61.4	61.2	59.8	59.6	60.2
80°	49.4	47.5	47.1	47.5	47.1	45.9	45.9
82.5°	37.6	36.0	35.6	35.3	34.9	35.3	34.7
85°	20.2	19.5	19.5	19.5	20.2	19.8	19.5
87.5°	15.0	15.1	15.7	15.5	15.6	15.5	15.9
90°	39.2	41.2	42.6	43.2	43.9	44.6	45.2
92.5°	38.0	40.0	41.1	41.2	41.4	41.5	41.6
95°	39.2	41.2	42.4	42.7	43.1	43.4	43.7
97.5°	40.4	40.6	40.9	41.2	41.6	41.9	42.2
100°	49.3	43.6	40.9	41.2	41.6	41.9	42.2
102.5°	135.3	73.9	43.2	43.2	43.3	43.4	43.4
105°	479.6	482.6	478.0	466.0	453.9	441.9	429.8
107.5°	591.1	592.5	593.9	595.2	596.4	597.7	599.0
110°	667.1	667.7	668.6	669.6	670.6	671.6	672.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	740.6	740.5	741.1	742.4	743.6	744.9	746.2
115°	852.5	853.2	853.6	853.6	853.6	853.6	853.6
117.5°	963.5	963.4	963.3	963.1	963.0	962.9	962.7
120°	1033.5	1034.2	1034.2	1033.5	1032.8	1032.2	1031.5
122.5°	1101.5	1101.9	1101.7	1101.1	1100.4	1099.7	1099.1
125°	1197.4	1198.4	1199.1	1199.4	1199.7	1200.1	1200.4
127.5°	1290.9	1290.7	1290.4	1290.2	1289.9	1289.6	1289.4
130°	1349.2	1349.5	1349.7	1349.7	1349.7	1349.7	1349.7
132.5°	1405.9	1406.2	1406.3	1406.0	1405.7	1405.5	1405.2
135°	1484.4	1485.1	1485.8	1486.4	1487.1	1487.8	1488.4
137.5°	1559.4	1560.2	1560.4	1560.2	1560.0	1559.8	1559.6
140°	1606.1	1607.1	1607.7	1608.1	1608.4	1608.7	1609.1
142.5°	1648.7	1649.4	1649.8	1649.9	1650.0	1650.0	1650.1
145°	1709.6	1709.9	1710.5	1711.1	1711.8	1712.5	1713.1
147.5°	1763.4	1763.7	1764.0	1764.3	1764.6	1765.0	1765.3
150°	1797.6	1797.6	1797.8	1798.1	1798.4	1798.8	1799.1
152.5°	1828.1	1828.7	1828.8	1828.6	1828.4	1828.2	1828.0
155°	1869.5	1870.8	1871.0	1870.0	1869.0	1868.0	1867.0
157.5°	1904.8	1906.5	1906.5	1904.8	1903.0	1901.3	1899.5
160°	1927.3	1929.3	1929.3	1927.3	1925.3	1923.3	1921.2
162.5°	1945.4	1947.4	1947.2	1945.0	1942.7	1940.4	1938.1
165°	1971.5	1974.2	1974.0	1971.0	1968.0	1965.0	1962.0
167.5°	1990.4	1993.4	1993.2	1989.8	1986.5	1983.1	1979.8
170°	2001.7	2004.4	2004.0	2000.7	1997.3	1994.0	1990.6
172.5°	2008.9	2011.6	2011.1	2007.5	2003.9	2000.3	1996.6
175°	2017.8	2020.8	2020.3	2016.2	2012.2	2008.2	2004.2
177.5°	2020.3	2022.4	2021.9	2018.7	2015.4	2012.2	2009.0
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2

(END OF REPORT)