

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: P333717-940

Luminaire Tested: **S125RDIW-S1090D1560U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333717-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIW-S1090D1560U940-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8624.5 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

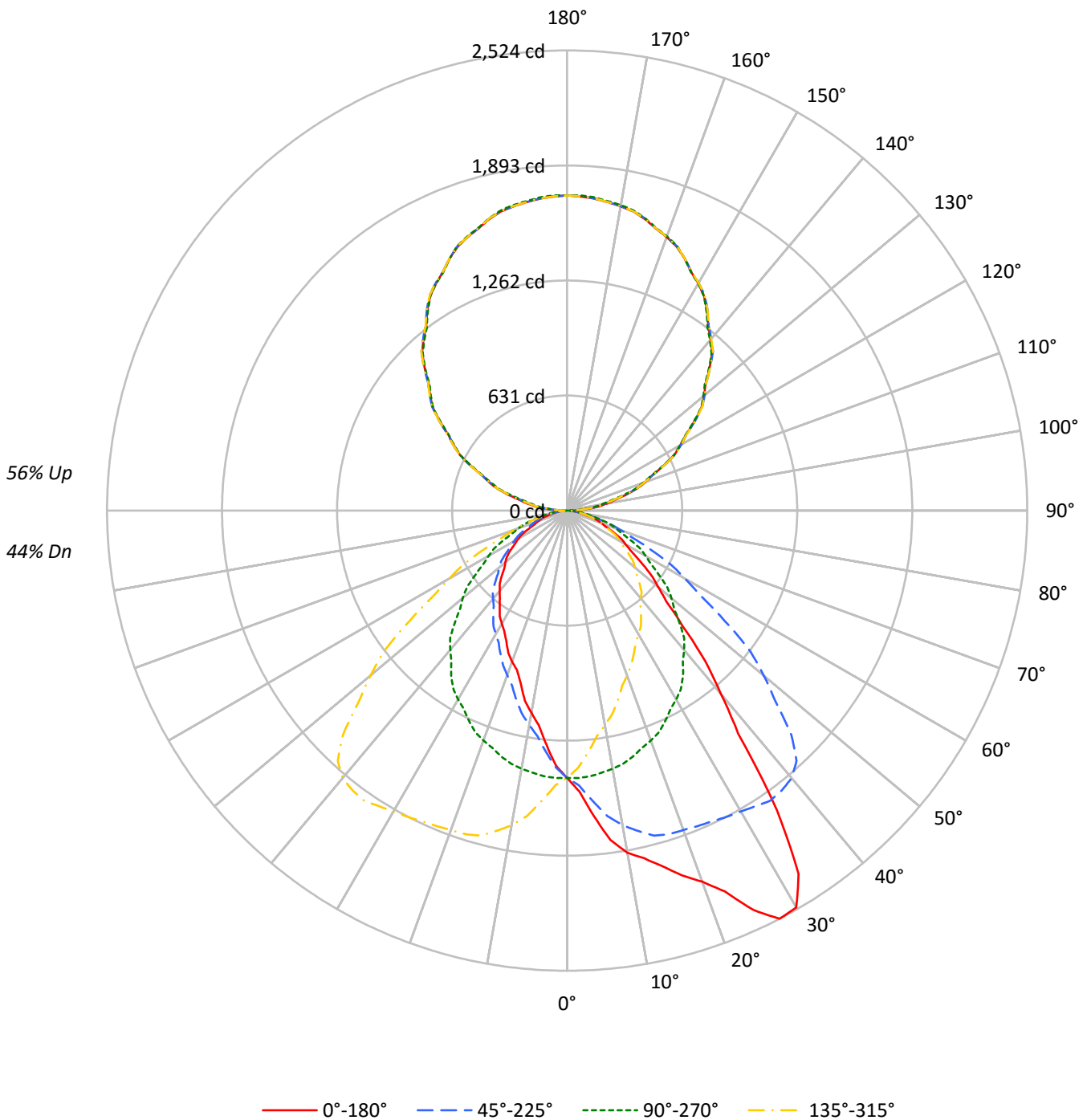
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	86	89	85	82	79	71	68	66	58	56	55	45	44	44	38
2	88	81	75	71	81	75	70	65	62	59	56	51	48	46	40	39	37	32
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35	36	33	30	29	27	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	28	24	27	23	21	22	19	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9469	9469	9469	9469
5°	10893	9481	8373	9481
10°	12496	9433	7389	9433
15°	13497	9336	6567	9336
20°	14882	9224	6064	9224
25°	17224	9075	5627	9075
30°	18744	8918	5341	8918
35°	15811	8736	5077	8736
40°	11042	8408	4850	8408
45°	8191	7965	4629	7965
50°	6531	7504	4439	7504
55°	5543	6933	4270	6933
60°	4790	6421	3995	6421
65°	4268	5868	3440	5868
70°	3750	5374	3136	5374
75°	3244	4654	2944	4654
80°	2462	3916	2462	3916
85°	2045	3083	2319	3083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	1.6
10°-20°	412.0	4.8
20°-30°	653.3	7.6
30°-40°	787.8	9.1
40°-50°	703.5	8.2
50°-60°	539.5	6.3
60°-70°	350.6	4.1
70°-80°	170.5	2.0
80°-90°	44.5	0.5
90°-100°	115.7	1.3
100°-110°	341.8	4.0
110°-120°	578.9	6.7
120°-130°	761.9	8.8
130°-140°	853.7	9.9
140°-150°	836.7	9.7
150°-160°	702.8	8.1
160°-170°	467.2	5.4
170°-180°	163.5	1.9
0°-30°	1205.9	14.0
0°-40°	1993.7	23.1
0°-60°	3236.7	37.5
0°-90°	3802.2	44.1
90°-120°	1036.5	12.0
90°-150°	3488.8	40.5
90°-180°	4822.0	55.9
0°-180°	8624.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1466	1466	1466	1466	1466	
5°	1680	1462	1292	1462	1680	168
15°	2019	1396	982	1396	2019	578
25°	2417	1274	790	1274	2417	1110
35°	2005	1108	644	1108	2005	1211
45°	897	872	507	872	897	716
55°	492	616	379	616	492	447
65°	279	384	225	384	279	278
75°	130	186	118	186	130	138
85°	28	42	31	42	28	33
90°	32	1	32	1	32	20
95°	116	87	116	87	116	118
105°	334	307	334	307	334	353
115°	585	580	585	580	585	579
125°	851	846	851	846	851	760
135°	1104	1100	1104	1100	1104	852
145°	1338	1333	1338	1333	1338	835
155°	1525	1525	1525	1525	1525	702
165°	1654	1658	1654	1658	1654	466
175°	1717	1724	1717	1724	1717	163
180°	1728	1728	1728	1728	1728	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1542.2	1541.2	1543.2	1537.8	1538.4	1530.2	1530.2	1523.9	1515.7	1509.5	1506.5
5°	1680.3	1681.6	1679.2	1670.2	1664.1	1655.1	1644.8	1626.8	1611.8	1597.3	1585.9
7.5°	1822.7	1823.5	1815.5	1812.8	1797.6	1786.5	1763.8	1739.2	1717.4	1689.8	1668.6
10°	1905.5	1904.9	1896.4	1889.8	1876.6	1859.8	1837.5	1808.6	1781.5	1751.4	1722.5
12.5°	1953.6	1952.0	1949.4	1941.3	1929.0	1914.1	1895.2	1866.8	1833.4	1800.5	1766.8
15°	2018.7	2014.4	2006.6	1996.4	1978.9	1961.4	1940.4	1915.1	1883.2	1845.8	1814.6
17.5°	2099.0	2099.2	2087.1	2072.9	2049.2	2018.4	1985.8	1945.1	1901.8	1860.7	1827.4
20°	2165.4	2163.6	2151.6	2124.0	2096.9	2058.3	2021.1	1971.0	1918.1	1864.6	1823.0
22.5°	2260.8	2256.1	2243.5	2207.3	2165.3	2115.7	2058.6	1997.5	1933.5	1872.7	1818.2
25°	2417.1	2413.4	2388.7	2346.6	2287.7	2211.2	2136.5	2052.9	1960.9	1880.8	1814.6
27.5°	2523.9	2520.0	2501.7	2466.7	2412.3	2331.8	2230.8	2119.0	2004.0	1893.9	1798.5
30°	2513.4	2522.4	2520.0	2503.7	2462.8	2390.6	2297.3	2171.5	2034.9	1905.5	1791.7
32.5°	2362.1	2370.3	2391.4	2423.3	2425.7	2396.8	2327.1	2211.0	2069.6	1922.4	1786.5
35°	2005.4	2016.2	2057.2	2121.6	2205.8	2276.2	2290.6	2228.0	2101.0	1942.8	1778.5
37.5°	1541.7	1600.9	1635.4	1703.2	1830.5	1960.0	2084.6	2130.5	2076.3	1934.4	1765.6
40°	1309.7	1324.1	1385.5	1461.9	1569.1	1703.9	1881.4	2009.6	2013.8	1915.1	1745.3
42.5°	1120.9	1139.2	1181.3	1242.3	1334.1	1468.9	1652.3	1821.3	1899.7	1862.2	1718.9
45°	896.8	910.6	941.3	988.3	1058.6	1170.0	1327.7	1523.3	1678.6	1739.4	1647.9
47.5°	736.6	744.1	770.9	806.6	858.7	939.9	1061.9	1231.7	1418.0	1548.5	1535.7
50°	650.0	658.4	678.9	706.0	749.9	818.5	916.1	1057.5	1249.5	1408.9	1440.8
52.5°	582.6	589.6	602.4	627.9	664.2	716.9	795.7	923.6	1096.4	1266.0	1339.7
55°	492.3	497.1	507.4	521.8	550.7	588.6	656.7	745.1	884.8	1055.6	1164.0
57.5°	417.9	420.4	426.9	440.2	460.2	487.9	537.0	612.0	712.1	866.0	985.6
60°	370.8	373.2	381.6	390.6	406.3	431.5	470.0	522.4	618.7	745.7	866.7
62.5°	333.1	334.7	338.2	347.2	361.0	380.5	410.8	453.5	530.1	641.7	755.9
65°	279.3	279.8	281.1	288.3	296.7	311.1	331.0	361.1	418.9	503.2	604.2
67.5°	227.5	228.4	232.6	235.1	243.9	251.5	263.1	286.1	326.8	383.6	462.3
70°	198.6	198.0	202.2	205.3	208.2	217.3	225.1	243.8	269.0	312.4	378.0
72.5°	171.7	170.0	171.9	173.0	176.9	183.1	190.9	202.3	221.9	251.7	301.9
75°	130.0	130.6	130.6	131.8	134.8	137.2	139.6	145.6	156.5	176.4	203.4
77.5°	91.2	90.2	92.8	93.2	95.0	97.6	99.7	102.1	106.6	114.7	128.7
80°	66.2	66.2	66.8	68.6	68.0	69.2	72.2	74.6	80.1	84.9	89.7
82.5°	50.8	50.3	50.9	51.3	51.2	52.3	53.4	53.9	56.0	58.4	61.7
85°	27.6	27.6	28.3	28.3	28.9	28.9	29.5	29.5	29.5	30.1	30.7
87.5°	17.0	16.4	15.7	15.5	15.9	16.6	15.8	15.0	14.7	14.4	14.4
90°	32.3	31.4	30.5	29.6	28.7	27.5	26.0	24.5	23.0	21.5	19.4
92.5°	63.5	62.8	62.2	61.5	60.8	59.6	57.5	55.6	53.6	51.6	49.0
95°	115.7	115.0	114.5	113.9	113.2	111.9	109.9	107.7	105.7	103.5	100.6
97.5°	175.4	175.0	174.7	174.3	174.0	172.7	170.8	168.8	166.8	164.9	160.8
100°	220.5	220.0	219.4	218.7	218.2	216.5	213.8	211.2	208.5	205.7	201.9
102.5°	265.7	264.9	264.0	263.2	262.4	260.5	257.6	254.7	251.7	248.8	246.8
105°	333.5	332.6	331.7	330.8	329.9	328.6	326.8	325.0	323.2	321.5	319.6
107.5°	402.9	403.0	403.1	403.1	403.1	402.7	401.8	400.9	400.0	399.1	397.8
110°	454.6	454.9	455.1	455.5	455.8	455.5	454.6	453.7	452.7	451.8	450.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	505.2	505.7	506.2	506.8	507.3	507.3	506.9	506.5	506.0	505.7	504.5
115°	585.1	585.3	585.6	585.9	586.2	586.5	586.8	587.1	587.4	587.7	587.1
117.5°	663.0	664.2	665.4	666.6	667.8	668.2	668.1	667.8	667.5	667.4	666.7
120°	716.8	718.0	719.2	720.4	721.6	722.2	722.2	722.2	722.2	722.2	721.8
122.5°	770.6	771.5	772.5	773.5	774.5	775.0	775.3	775.5	775.7	776.0	775.2
125°	851.3	851.6	851.9	852.2	852.5	852.9	853.5	854.2	854.7	855.3	855.1
127.5°	928.7	929.3	930.0	930.5	931.1	931.6	931.9	932.2	932.5	932.8	932.5
130°	980.4	981.0	981.6	982.2	982.8	983.2	983.6	983.8	984.1	984.4	983.8
132.5°	1028.8	1029.7	1030.5	1031.4	1032.2	1032.7	1033.0	1033.3	1033.6	1033.9	1034.0
135°	1104.1	1105.3	1106.5	1107.7	1108.9	1109.5	1109.5	1109.5	1109.5	1109.5	1109.2
137.5°	1177.8	1179.3	1180.8	1182.3	1183.8	1184.4	1184.0	1183.7	1183.3	1182.9	1182.2
140°	1225.1	1226.6	1228.2	1229.7	1231.1	1231.5	1231.0	1230.4	1229.8	1229.2	1228.3
142.5°	1270.3	1271.8	1273.4	1274.8	1276.3	1276.9	1276.5	1276.1	1275.8	1275.4	1274.3
145°	1338.1	1339.0	1339.9	1340.8	1341.7	1342.1	1342.1	1342.1	1342.1	1342.1	1341.2
147.5°	1396.0	1398.0	1400.0	1402.0	1404.1	1404.7	1404.0	1403.3	1402.6	1401.9	1401.1
150°	1439.0	1439.6	1440.2	1440.7	1441.4	1441.7	1441.7	1441.7	1441.7	1441.7	1440.5
152.5°	1474.5	1475.6	1476.7	1477.7	1478.8	1479.0	1478.3	1477.6	1476.9	1476.1	1475.6
155°	1525.1	1526.5	1528.0	1529.6	1531.1	1531.2	1530.0	1528.7	1527.6	1526.4	1526.1
157.5°	1567.3	1569.2	1571.2	1573.2	1575.2	1575.6	1574.4	1573.2	1572.0	1570.7	1570.5
160°	1596.3	1597.9	1599.3	1600.8	1602.3	1602.5	1601.2	1600.1	1598.8	1597.7	1597.4
162.5°	1621.0	1622.8	1624.5	1626.3	1628.0	1628.2	1626.7	1625.3	1623.9	1622.4	1622.4
165°	1654.1	1656.0	1657.8	1659.6	1661.3	1661.6	1660.5	1659.2	1658.0	1656.9	1656.5
167.5°	1680.5	1682.4	1684.3	1686.0	1687.9	1687.9	1686.1	1684.4	1682.6	1680.8	1680.8
170°	1694.5	1696.6	1698.7	1700.8	1702.9	1703.0	1701.2	1699.4	1697.6	1695.9	1695.9
172.5°	1706.4	1708.2	1710.0	1711.9	1713.8	1713.8	1712.0	1710.2	1708.4	1706.6	1706.6
175°	1717.3	1719.5	1721.5	1723.7	1725.7	1725.9	1724.1	1722.3	1720.5	1718.7	1718.7
177.5°	1723.9	1725.5	1727.2	1728.8	1730.5	1730.6	1729.2	1727.8	1726.4	1724.9	1725.1
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1506.5	1503.2	1496.9	1491.1	1483.9	1477.7	1473.4	1468.0	1461.3	1453.1	1446.4
5°	1573.2	1560.0	1542.6	1527.5	1508.2	1493.2	1477.6	1462.5	1447.4	1428.2	1411.3
7.5°	1647.2	1619.8	1593.2	1559.8	1529.5	1502.4	1476.3	1450.0	1424.2	1396.9	1370.6
10°	1692.4	1659.3	1622.6	1580.5	1541.9	1505.2	1471.5	1438.4	1403.6	1372.8	1339.7
12.5°	1734.8	1692.0	1650.0	1596.9	1550.6	1505.7	1462.9	1421.6	1384.3	1344.4	1308.9
15°	1773.1	1730.9	1684.0	1619.0	1554.6	1500.4	1449.8	1396.3	1350.0	1305.4	1265.7
17.5°	1787.9	1743.7	1689.2	1626.7	1556.3	1488.2	1423.0	1364.3	1309.7	1257.8	1213.2
20°	1782.1	1739.4	1683.4	1623.8	1548.5	1477.6	1407.1	1342.1	1281.4	1226.5	1179.0
22.5°	1768.1	1723.9	1669.9	1607.0	1535.5	1460.2	1385.0	1315.6	1252.0	1195.2	1143.4
25°	1747.2	1687.0	1631.7	1570.2	1502.3	1427.6	1350.0	1273.5	1205.5	1147.7	1091.2
27.5°	1725.4	1650.3	1579.8	1518.9	1447.0	1380.4	1305.6	1227.2	1155.7	1096.8	1038.8
30°	1705.7	1621.4	1543.7	1474.5	1406.5	1343.4	1272.3	1195.9	1122.5	1061.7	1002.7
32.5°	1681.1	1591.5	1506.2	1426.4	1360.8	1298.1	1233.8	1160.7	1089.2	1026.5	966.6
35°	1650.3	1536.0	1443.2	1358.3	1285.6	1224.8	1167.0	1108.0	1036.4	971.4	913.0
37.5°	1609.8	1480.1	1372.8	1280.4	1203.5	1142.5	1096.9	1043.0	977.7	915.4	861.2
40°	1585.3	1439.7	1322.2	1230.8	1150.1	1085.7	1043.0	997.3	937.7	879.3	825.1
42.5°	1552.6	1402.6	1271.2	1175.9	1094.8	1032.8	989.5	949.6	899.6	844.6	786.6
45°	1488.4	1330.7	1192.8	1090.6	1008.7	947.9	907.6	872.1	834.2	783.6	733.1
47.5°	1404.8	1255.7	1111.5	999.8	919.6	863.2	824.0	796.0	768.9	725.9	676.8
50°	1337.9	1194.1	1053.2	944.9	859.4	805.8	769.2	746.9	722.2	683.1	642.2
52.5°	1258.9	1130.5	992.6	881.8	801.2	751.0	715.7	693.5	673.2	641.2	602.2
55°	1134.5	1022.0	895.5	795.0	721.0	670.5	636.8	615.7	603.7	576.6	545.9
57.5°	990.9	910.3	798.8	701.9	636.4	586.5	561.8	543.9	530.2	511.1	489.5
60°	890.7	834.2	734.2	642.2	582.0	534.4	512.2	497.1	484.5	468.2	451.4
62.5°	789.2	748.0	661.1	582.0	526.6	486.8	465.9	452.4	437.8	426.9	410.5
65°	653.0	616.3	556.1	494.1	443.0	411.1	396.0	384.0	375.0	362.9	351.5
67.5°	508.0	493.0	451.5	408.8	372.0	343.7	330.6	322.3	311.4	304.2	296.3
70°	418.9	411.7	382.2	353.9	319.6	300.3	288.3	284.6	271.4	264.2	258.8
72.5°	339.9	336.5	319.6	300.0	275.8	259.0	247.8	243.8	235.3	229.5	226.0
75°	232.9	234.2	231.1	218.5	209.5	198.6	189.0	186.5	180.6	175.8	172.7
77.5°	147.3	153.5	153.7	153.1	149.5	142.9	138.9	137.1	131.2	129.4	128.7
80°	101.1	107.7	113.8	113.2	111.9	110.1	107.1	105.3	102.3	100.5	99.3
82.5°	67.4	73.6	78.6	81.9	81.6	79.8	77.8	77.0	76.3	75.0	74.7
85°	31.9	33.1	34.9	39.1	42.1	42.7	42.1	41.6	39.7	40.3	40.9
87.5°	14.5	14.1	14.2	13.7	12.8	14.7	15.7	15.7	15.2	14.7	14.2
90°	17.3	15.2	13.1	10.9	8.6	6.2	3.7	1.3	3.7	6.2	8.6
92.5°	46.5	44.0	41.4	39.2	37.5	35.9	34.2	32.5	34.2	35.9	37.5
95°	97.6	94.6	91.6	89.8	89.2	88.6	88.0	87.4	88.0	88.6	89.2
97.5°	156.7	152.5	148.4	146.2	146.0	145.7	145.4	145.3	145.4	145.7	146.0
100°	198.0	194.1	190.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2
102.5°	244.9	242.9	240.9	239.3	238.1	236.9	235.8	234.5	235.8	236.9	238.1
105°	317.8	316.0	314.2	312.6	311.1	309.6	308.1	306.7	308.1	309.6	311.1
107.5°	396.4	395.0	393.7	392.2	390.7	389.2	387.7	386.2	387.7	389.2	390.7
110°	450.0	449.2	448.3	447.1	445.6	444.1	442.6	441.1	442.6	444.1	445.6



TEST NUMBER: P333717-940

CATALOG NUMBER: S125RDIW-S1090D1560U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	503.4	502.2	501.1	500.2	499.4	498.6	497.8	497.0	497.8	498.6	499.4
115°	586.5	585.9	585.3	584.4	583.2	582.0	580.9	579.6	580.9	582.0	583.2
117.5°	666.2	665.7	665.1	664.6	664.1	663.5	663.0	662.5	663.0	663.5	664.1
120°	721.6	721.3	720.9	720.1	718.6	717.1	715.6	714.1	715.6	717.1	718.6
122.5°	774.5	773.6	772.8	772.2	771.7	771.2	770.6	770.1	770.6	771.2	771.7
125°	854.7	854.4	854.2	853.1	851.3	849.5	847.7	845.9	847.7	849.5	851.3
127.5°	932.1	931.7	931.4	930.7	929.6	928.6	927.6	926.6	927.6	928.6	929.6
130°	983.2	982.7	982.0	981.0	979.5	978.0	976.5	975.0	976.5	978.0	979.5
132.5°	1034.1	1034.3	1034.4	1033.2	1030.8	1028.3	1025.9	1023.4	1025.9	1028.3	1030.8
135°	1108.9	1108.6	1108.3	1107.2	1105.5	1103.7	1101.9	1100.1	1101.9	1103.7	1105.5
137.5°	1181.6	1181.0	1180.3	1179.1	1177.3	1175.6	1173.9	1172.2	1173.9	1175.6	1177.3
140°	1227.4	1226.5	1225.6	1224.4	1222.9	1221.4	1219.9	1218.4	1219.9	1221.4	1222.9
142.5°	1273.2	1272.0	1270.9	1269.7	1268.5	1267.2	1266.0	1264.7	1266.0	1267.2	1268.5
145°	1340.3	1339.4	1338.5	1337.6	1336.3	1335.2	1333.9	1332.8	1333.9	1335.2	1336.3
147.5°	1400.4	1399.7	1399.0	1398.3	1397.7	1397.0	1396.3	1395.7	1396.3	1397.0	1397.7
150°	1439.3	1438.1	1436.9	1436.5	1436.7	1437.1	1437.3	1437.6	1437.3	1437.1	1436.7
152.5°	1475.2	1474.7	1474.2	1473.7	1473.3	1472.9	1472.5	1472.0	1472.5	1472.9	1473.3
155°	1525.8	1525.5	1525.2	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1	1525.1
157.5°	1570.2	1569.9	1569.6	1569.8	1570.4	1571.1	1571.7	1572.4	1571.7	1571.1	1570.4
160°	1597.1	1596.8	1596.5	1596.8	1597.7	1598.6	1599.5	1600.4	1599.5	1598.6	1597.7
162.5°	1622.3	1622.2	1622.2	1622.5	1623.2	1623.8	1624.4	1625.1	1624.4	1623.8	1623.2
165°	1656.3	1656.0	1655.6	1655.8	1656.4	1657.0	1657.6	1658.2	1657.6	1657.0	1656.4
167.5°	1680.8	1680.8	1680.8	1681.4	1682.6	1683.8	1685.0	1686.1	1685.0	1683.8	1682.6
170°	1695.9	1695.9	1695.9	1696.5	1697.6	1698.8	1700.0	1701.2	1700.0	1698.8	1697.6
172.5°	1706.6	1706.6	1706.6	1707.2	1708.4	1709.6	1710.8	1712.0	1710.8	1709.6	1708.4
175°	1718.7	1718.7	1718.7	1719.3	1720.5	1721.7	1722.9	1724.1	1722.9	1721.7	1720.5
177.5°	1725.4	1725.6	1725.8	1726.4	1727.4	1728.4	1729.3	1730.3	1729.3	1728.4	1727.4
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1441.5	1434.9	1430.0	1420.4	1413.6	1410.8	1405.4	1404.0	1409.3	1405.4	1405.0
5°	1398.7	1381.3	1367.4	1353.5	1338.5	1328.9	1314.5	1312.1	1308.4	1303.0	1301.8
7.5°	1347.3	1324.5	1306.7	1283.9	1264.0	1248.0	1229.9	1221.4	1216.7	1209.7	1200.3
10°	1312.6	1285.6	1261.5	1238.6	1214.0	1194.1	1176.0	1162.2	1153.2	1144.7	1141.1
12.5°	1278.4	1250.9	1220.0	1192.4	1164.8	1142.5	1122.6	1113.6	1103.6	1093.7	1085.3
15°	1225.4	1188.7	1154.9	1123.0	1099.6	1075.5	1056.2	1043.0	1028.0	1023.8	1007.5
17.5°	1169.0	1133.0	1093.6	1060.0	1032.8	1006.3	985.1	970.1	958.8	943.3	935.8
20°	1133.9	1091.2	1052.7	1022.0	991.8	960.6	938.9	926.2	915.4	902.8	896.8
22.5°	1096.4	1054.5	1015.1	979.1	948.5	917.7	902.3	889.2	876.9	865.2	857.3
25°	1041.2	999.1	957.5	920.2	888.3	866.0	848.0	832.9	826.3	814.9	806.5
27.5°	986.7	941.9	898.8	861.6	836.6	814.6	799.8	787.8	775.9	765.9	758.6
30°	951.5	905.8	858.8	829.4	802.9	781.8	765.5	754.1	745.1	736.1	730.7
32.5°	916.4	869.2	827.5	795.7	770.6	752.4	735.7	724.8	715.2	705.3	698.8
35°	860.1	811.9	778.2	746.9	722.2	705.3	693.9	678.3	670.5	663.3	656.7
37.5°	807.7	762.9	726.5	699.0	677.5	660.8	646.0	637.6	627.9	621.4	615.9
40°	769.2	728.3	695.2	666.3	650.6	632.0	618.1	607.3	600.0	591.7	585.6
42.5°	734.5	696.4	664.3	638.3	618.8	603.1	589.7	578.9	569.7	563.7	558.7
45°	685.5	647.6	616.3	592.2	574.2	559.1	545.3	539.8	527.8	520.6	518.2
47.5°	634.8	600.9	570.7	548.5	530.0	515.8	502.7	491.7	485.1	478.0	474.1
50°	600.7	568.1	539.8	518.2	500.2	484.5	472.4	465.2	456.2	449.6	444.8
52.5°	566.5	536.4	508.1	487.4	471.7	456.1	442.6	435.4	426.9	422.6	419.3
55°	517.6	485.7	461.6	441.1	424.9	410.5	397.8	390.6	385.2	380.9	379.8
57.5°	462.3	436.9	414.6	396.1	379.2	365.7	354.6	347.8	343.0	342.3	338.8
60°	426.1	403.2	382.8	362.9	348.5	335.8	326.2	318.3	313.5	313.0	311.7
62.5°	390.0	368.1	349.1	331.6	318.6	306.5	297.3	288.6	285.6	282.7	280.0
65°	336.4	316.6	301.0	287.0	273.2	263.0	254.0	248.6	241.9	238.4	231.8
67.5°	283.8	268.4	253.4	241.7	230.9	221.1	213.7	205.6	201.2	198.2	193.4
70°	249.1	237.1	222.1	209.5	201.0	193.2	187.2	178.2	175.1	172.7	170.3
72.5°	216.4	205.8	193.2	183.0	174.5	167.2	160.2	156.0	153.0	150.6	149.2
75°	170.3	160.1	149.3	142.0	136.0	130.0	126.4	123.4	122.2	121.5	119.1
77.5°	125.1	119.7	111.0	105.2	101.2	98.8	95.6	94.0	93.9	91.2	90.4
80°	95.7	92.6	85.4	83.0	80.1	77.7	75.8	72.9	69.8	68.6	66.8
82.5°	71.2	68.1	65.3	61.3	58.9	57.4	55.6	54.5	54.9	53.2	52.3
85°	37.9	34.9	33.7	33.1	31.9	33.1	32.5	31.9	31.3	30.7	31.3
87.5°	14.2	14.6	14.6	16.0	15.0	15.9	16.1	16.0	16.3	16.6	16.3
90°	10.9	13.1	15.2	17.3	19.4	21.5	23.0	24.5	26.0	27.5	28.7
92.5°	39.2	41.4	44.0	46.5	49.0	51.6	53.6	55.6	57.5	59.6	60.8
95°	89.8	91.6	94.6	97.6	100.6	103.5	105.7	107.7	109.9	111.9	113.2
97.5°	146.2	148.4	152.5	156.7	160.8	164.9	166.8	168.8	170.8	172.7	174.0
100°	188.2	190.2	194.1	198.0	201.9	205.7	208.5	211.2	213.8	216.5	218.2
102.5°	239.3	240.9	242.9	244.9	246.8	248.8	251.7	254.7	257.6	260.5	262.4
105°	312.6	314.2	316.0	317.8	319.6	321.5	323.2	325.0	326.8	328.6	329.9
107.5°	392.2	393.7	395.0	396.4	397.8	399.1	400.0	400.9	401.8	402.7	403.1
110°	447.1	448.3	449.2	450.0	450.9	451.8	452.7	453.7	454.6	455.5	455.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	500.2	501.1	502.2	503.4	504.5	505.7	506.0	506.5	506.9	507.3	507.3
115°	584.4	585.3	585.9	586.5	587.1	587.7	587.4	587.1	586.8	586.5	586.2
117.5°	664.6	665.1	665.7	666.2	666.7	667.4	667.5	667.8	668.1	668.2	667.8
120°	720.1	720.9	721.3	721.6	721.8	722.2	722.2	722.2	722.2	722.2	721.6
122.5°	772.2	772.8	773.6	774.5	775.2	776.0	775.7	775.5	775.3	775.0	774.5
125°	853.1	854.2	854.4	854.7	855.1	855.3	854.7	854.2	853.5	852.9	852.5
127.5°	930.7	931.4	931.7	932.1	932.5	932.8	932.5	932.2	931.9	931.6	931.1
130°	981.0	982.0	982.7	983.2	983.8	984.4	984.1	983.8	983.6	983.2	982.8
132.5°	1033.2	1034.4	1034.3	1034.1	1034.0	1033.9	1033.6	1033.3	1033.0	1032.7	1032.2
135°	1107.2	1108.3	1108.6	1108.9	1109.2	1109.5	1109.5	1109.5	1109.5	1109.5	1108.9
137.5°	1179.1	1180.3	1181.0	1181.6	1182.2	1182.9	1183.3	1183.7	1184.0	1184.4	1183.8
140°	1224.4	1225.6	1226.5	1227.4	1228.3	1229.2	1229.8	1230.4	1231.0	1231.5	1231.1
142.5°	1269.7	1270.9	1272.0	1273.2	1274.3	1275.4	1275.8	1276.1	1276.5	1276.9	1276.3
145°	1337.6	1338.5	1339.4	1340.3	1341.2	1342.1	1342.1	1342.1	1342.1	1342.1	1341.7
147.5°	1398.3	1399.0	1399.7	1400.4	1401.1	1401.9	1402.6	1403.3	1404.0	1404.7	1404.1
150°	1436.5	1436.9	1438.1	1439.3	1440.5	1441.7	1441.7	1441.7	1441.7	1441.7	1441.4
152.5°	1473.7	1474.2	1474.7	1475.2	1475.6	1476.1	1476.9	1477.6	1478.3	1479.0	1478.8
155°	1525.1	1525.2	1525.5	1525.8	1526.1	1526.4	1527.6	1528.7	1530.0	1531.2	1531.1
157.5°	1569.8	1569.6	1569.9	1570.2	1570.5	1570.7	1572.0	1573.2	1574.4	1575.6	1575.2
160°	1596.8	1596.5	1596.8	1597.1	1597.4	1597.7	1598.8	1600.1	1601.2	1602.5	1602.3
162.5°	1622.5	1622.2	1622.2	1622.3	1622.4	1622.4	1623.9	1625.3	1626.7	1628.2	1628.0
165°	1655.8	1655.6	1656.0	1656.3	1656.5	1656.9	1658.0	1659.2	1660.5	1661.6	1661.3
167.5°	1681.4	1680.8	1680.8	1680.8	1680.8	1680.8	1682.6	1684.4	1686.1	1687.9	1687.9
170°	1696.5	1695.9	1695.9	1695.9	1695.9	1695.9	1697.6	1699.4	1701.2	1703.0	1702.9
172.5°	1707.2	1706.6	1706.6	1706.6	1706.6	1706.6	1708.4	1710.2	1712.0	1713.8	1713.8
175°	1719.3	1718.7	1718.7	1718.7	1718.7	1718.7	1720.5	1722.3	1724.1	1725.9	1725.7
177.5°	1726.4	1725.8	1725.6	1725.4	1725.1	1724.9	1726.4	1727.8	1729.2	1730.6	1730.5
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1404.4	1399.2	1397.8	1399.6	1397.8	1399.2	1404.4	1405.0	1405.4	1409.3	1404.0
5°	1295.8	1289.8	1292.8	1291.6	1292.8	1289.8	1295.8	1301.8	1303.0	1308.4	1312.1
7.5°	1200.2	1192.8	1184.8	1187.3	1184.8	1192.8	1200.2	1200.3	1209.7	1216.7	1221.4
10°	1133.3	1127.3	1123.6	1126.7	1123.6	1127.3	1133.3	1141.1	1144.7	1153.2	1162.2
12.5°	1076.9	1073.4	1070.2	1068.9	1070.2	1073.4	1076.9	1085.3	1093.7	1103.6	1113.6
15°	1000.3	993.1	990.1	982.2	990.1	993.1	1000.3	1007.5	1023.8	1028.0	1043.0
17.5°	929.6	927.2	919.4	916.1	919.4	927.2	929.6	935.8	943.3	958.8	970.1
20°	887.7	885.3	877.5	882.3	877.5	885.3	887.7	896.8	902.8	915.4	926.2
22.5°	853.1	847.7	845.3	843.8	845.3	847.7	853.1	857.3	865.2	876.9	889.2
25°	804.1	796.2	793.3	789.6	793.3	796.2	804.1	806.5	814.9	826.3	832.9
27.5°	755.2	751.0	747.0	746.1	747.0	751.0	755.2	758.6	765.9	775.9	787.8
30°	723.4	719.3	716.2	716.2	716.2	719.3	723.4	730.7	736.1	745.1	754.1
32.5°	695.0	691.8	688.8	688.3	688.8	691.8	695.0	698.8	705.3	715.2	724.8
35°	653.6	648.8	647.6	644.0	647.6	648.8	653.6	656.7	663.3	670.5	678.3
37.5°	610.6	606.6	606.5	606.2	606.5	606.6	610.6	615.9	621.4	627.9	637.6
40°	583.2	580.1	579.6	575.3	579.6	580.1	583.2	585.6	591.7	600.0	607.3
42.5°	553.8	552.2	550.2	548.4	550.2	552.2	553.8	558.7	563.7	569.7	578.9
45°	514.0	509.8	509.8	506.8	509.8	509.8	514.0	518.2	520.6	527.8	539.8
47.5°	472.8	469.6	469.9	466.8	469.9	469.6	472.8	474.1	478.0	485.1	491.7
50°	445.4	443.5	443.0	441.8	443.0	443.5	445.4	444.8	449.6	456.2	465.2
52.5°	417.9	417.1	419.4	416.7	419.4	417.1	417.9	419.3	422.6	426.9	435.4
55°	380.9	379.2	382.8	379.2	382.8	379.2	380.9	379.8	380.9	385.2	390.6
57.5°	338.5	336.8	340.0	338.2	340.0	336.8	338.5	338.8	342.3	343.0	347.8
60°	310.6	306.9	308.7	309.3	308.7	306.9	310.6	311.7	313.0	313.5	318.3
62.5°	277.3	275.2	276.5	273.8	276.5	275.2	277.3	280.0	282.7	285.6	288.6
65°	230.5	228.7	226.3	225.1	226.3	228.7	230.5	231.8	238.4	241.9	248.6
67.5°	193.7	189.3	189.2	190.2	189.2	189.3	193.7	193.4	198.2	201.2	205.6
70°	166.7	166.7	166.1	166.1	166.1	166.7	166.7	170.3	172.7	175.1	178.2
72.5°	147.9	147.5	146.3	145.9	146.3	147.5	147.9	149.2	150.6	153.0	156.0
75°	119.1	119.8	118.6	118.0	118.6	119.8	119.1	119.1	121.5	122.2	123.4
77.5°	88.0	85.4	86.8	85.4	86.8	85.4	88.0	90.4	91.2	93.9	94.0
80°	66.8	66.2	68.0	66.2	68.0	66.2	66.8	66.8	68.6	69.8	72.9
82.5°	52.9	52.3	53.1	51.7	53.1	52.3	52.9	52.3	53.2	54.9	54.5
85°	31.9	31.3	30.7	31.3	30.7	31.3	31.9	31.3	30.7	31.3	31.9
87.5°	17.0	16.7	16.9	17.0	16.9	16.7	17.0	16.3	16.6	16.3	16.0
90°	29.6	30.5	31.4	32.3	31.4	30.5	29.6	28.7	27.5	26.0	24.5
92.5°	61.5	62.2	62.8	63.5	62.8	62.2	61.5	60.8	59.6	57.5	55.6
95°	113.9	114.5	115.0	115.7	115.0	114.5	113.9	113.2	111.9	109.9	107.7
97.5°	174.3	174.7	175.0	175.4	175.0	174.7	174.3	174.0	172.7	170.8	168.8
100°	218.7	219.4	220.0	220.5	220.0	219.4	218.7	218.2	216.5	213.8	211.2
102.5°	263.2	264.0	264.9	265.7	264.9	264.0	263.2	262.4	260.5	257.6	254.7
105°	330.8	331.7	332.6	333.5	332.6	331.7	330.8	329.9	328.6	326.8	325.0
107.5°	403.1	403.1	403.0	402.9	403.0	403.1	403.1	403.1	402.7	401.8	400.9
110°	455.5	455.1	454.9	454.6	454.9	455.1	455.5	455.8	455.5	454.6	453.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	506.8	506.2	505.7	505.2	505.7	506.2	506.8	507.3	507.3	506.9	506.5
115°	585.9	585.6	585.3	585.1	585.3	585.6	585.9	586.2	586.5	586.8	587.1
117.5°	666.6	665.4	664.2	663.0	664.2	665.4	666.6	667.8	668.2	668.1	667.8
120°	720.4	719.2	718.0	716.8	718.0	719.2	720.4	721.6	722.2	722.2	722.2
122.5°	773.5	772.5	771.5	770.6	771.5	772.5	773.5	774.5	775.0	775.3	775.5
125°	852.2	851.9	851.6	851.3	851.6	851.9	852.2	852.5	852.9	853.5	854.2
127.5°	930.5	930.0	929.3	928.7	929.3	930.0	930.5	931.1	931.6	931.9	932.2
130°	982.2	981.6	981.0	980.4	981.0	981.6	982.2	982.8	983.2	983.6	983.8
132.5°	1031.4	1030.5	1029.7	1028.8	1029.7	1030.5	1031.4	1032.2	1032.7	1033.0	1033.3
135°	1107.7	1106.5	1105.3	1104.1	1105.3	1106.5	1107.7	1108.9	1109.5	1109.5	1109.5
137.5°	1182.3	1180.8	1179.3	1177.8	1179.3	1180.8	1182.3	1183.8	1184.4	1184.0	1183.7
140°	1229.7	1228.2	1226.6	1225.1	1226.6	1228.2	1229.7	1231.1	1231.5	1231.0	1230.4
142.5°	1274.8	1273.4	1271.8	1270.3	1271.8	1273.4	1274.8	1276.3	1276.9	1276.5	1276.1
145°	1340.8	1339.9	1339.0	1338.1	1339.0	1339.9	1340.8	1341.7	1342.1	1342.1	1342.1
147.5°	1402.0	1400.0	1398.0	1396.0	1398.0	1400.0	1402.0	1404.1	1404.7	1404.0	1403.3
150°	1440.7	1440.2	1439.6	1439.0	1439.6	1440.2	1440.7	1441.4	1441.7	1441.7	1441.7
152.5°	1477.7	1476.7	1475.6	1474.5	1475.6	1476.7	1477.7	1478.8	1479.0	1478.3	1477.6
155°	1529.6	1528.0	1526.5	1525.1	1526.5	1528.0	1529.6	1531.1	1531.2	1530.0	1528.7
157.5°	1573.2	1571.2	1569.2	1567.3	1569.2	1571.2	1573.2	1575.2	1575.6	1574.4	1573.2
160°	1600.8	1599.3	1597.9	1596.3	1597.9	1599.3	1600.8	1602.3	1602.5	1601.2	1600.1
162.5°	1626.3	1624.5	1622.8	1621.0	1622.8	1624.5	1626.3	1628.0	1628.2	1626.7	1625.3
165°	1659.6	1657.8	1656.0	1654.1	1656.0	1657.8	1659.6	1661.3	1661.6	1660.5	1659.2
167.5°	1686.0	1684.3	1682.4	1680.5	1682.4	1684.3	1686.0	1687.9	1687.9	1686.1	1684.4
170°	1700.8	1698.7	1696.6	1694.5	1696.6	1698.7	1700.8	1702.9	1703.0	1701.2	1699.4
172.5°	1711.9	1710.0	1708.2	1706.4	1708.2	1710.0	1711.9	1713.8	1713.8	1712.0	1710.2
175°	1723.7	1721.5	1719.5	1717.3	1719.5	1721.5	1723.7	1725.7	1725.9	1724.1	1722.3
177.5°	1728.8	1727.2	1725.5	1723.9	1725.5	1727.2	1728.8	1730.5	1730.6	1729.2	1727.8
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1405.4	1410.8	1413.6	1420.4	1430.0	1434.9	1441.5	1446.4	1453.1	1461.3	1468.0
5°	1314.5	1328.9	1338.5	1353.5	1367.4	1381.3	1398.7	1411.3	1428.2	1447.4	1462.5
7.5°	1229.9	1248.0	1264.0	1283.9	1306.7	1324.5	1347.3	1370.6	1396.9	1424.2	1450.0
10°	1176.0	1194.1	1214.0	1238.6	1261.5	1285.6	1312.6	1339.7	1372.8	1403.6	1438.4
12.5°	1122.6	1142.5	1164.8	1192.4	1220.0	1250.9	1278.4	1308.9	1344.4	1384.3	1421.6
15°	1056.2	1075.5	1099.6	1123.0	1154.9	1188.7	1225.4	1265.7	1305.4	1350.0	1396.3
17.5°	985.1	1006.3	1032.8	1060.0	1093.6	1133.0	1169.0	1213.2	1257.8	1309.7	1364.3
20°	938.9	960.6	991.8	1022.0	1052.7	1091.2	1133.9	1179.0	1226.5	1281.4	1342.1
22.5°	902.3	917.7	948.5	979.1	1015.1	1054.5	1096.4	1143.4	1195.2	1252.0	1315.6
25°	848.0	866.0	888.3	920.2	957.5	999.1	1041.2	1091.2	1147.7	1205.5	1273.5
27.5°	799.8	814.6	836.6	861.6	898.8	941.9	986.7	1038.8	1096.8	1155.7	1227.2
30°	765.5	781.8	802.9	829.4	858.8	905.8	951.5	1002.7	1061.7	1122.5	1195.9
32.5°	735.7	752.4	770.6	795.7	827.5	869.2	916.4	966.6	1026.5	1089.2	1160.7
35°	693.9	705.3	722.2	746.9	778.2	811.9	860.1	913.0	971.4	1036.4	1108.0
37.5°	646.0	660.8	677.5	699.0	726.5	762.9	807.7	861.2	915.4	977.7	1043.0
40°	618.1	632.0	650.6	666.3	695.2	728.3	769.2	825.1	879.3	937.7	997.3
42.5°	589.7	603.1	618.8	638.3	664.3	696.4	734.5	786.6	844.6	899.6	949.6
45°	545.3	559.1	574.2	592.2	616.3	647.6	685.5	733.1	783.6	834.2	872.1
47.5°	502.7	515.8	530.0	548.5	570.7	600.9	634.8	676.8	725.9	768.9	796.0
50°	472.4	484.5	500.2	518.2	539.8	568.1	600.7	642.2	683.1	722.2	746.9
52.5°	442.6	456.1	471.7	487.4	508.1	536.4	566.5	602.2	641.2	673.2	693.5
55°	397.8	410.5	424.9	441.1	461.6	485.7	517.6	545.9	576.6	603.7	615.7
57.5°	354.6	365.7	379.2	396.1	414.6	436.9	462.3	489.5	511.1	530.2	543.9
60°	326.2	335.8	348.5	362.9	382.8	403.2	426.1	451.4	468.2	484.5	497.1
62.5°	297.3	306.5	318.6	331.6	349.1	368.1	390.0	410.5	426.9	437.8	452.4
65°	254.0	263.0	273.2	287.0	301.0	316.6	336.4	351.5	362.9	375.0	384.0
67.5°	213.7	221.1	230.9	241.7	253.4	268.4	283.8	296.3	304.2	311.4	322.3
70°	187.2	193.2	201.0	209.5	222.1	237.1	249.1	258.8	264.2	271.4	284.6
72.5°	160.2	167.2	174.5	183.0	193.2	205.8	216.4	226.0	229.5	235.3	243.8
75°	126.4	130.0	136.0	142.0	149.3	160.1	170.3	172.7	175.8	180.6	186.5
77.5°	95.6	98.8	101.2	105.2	111.0	119.7	125.1	128.7	129.4	131.2	137.1
80°	75.8	77.7	80.1	83.0	85.4	92.6	95.7	99.3	100.5	102.3	105.3
82.5°	55.6	57.4	58.9	61.3	65.3	68.1	71.2	74.7	75.0	76.3	77.0
85°	32.5	33.1	31.9	33.1	33.7	34.9	37.9	40.9	40.3	39.7	41.6
87.5°	16.1	15.9	15.0	16.0	14.6	14.6	14.2	14.2	14.7	15.2	15.7
90°	23.0	21.5	19.4	17.3	15.2	13.1	10.9	8.6	6.2	3.7	1.3
92.5°	53.6	51.6	49.0	46.5	44.0	41.4	39.2	37.5	35.9	34.2	32.5
95°	105.7	103.5	100.6	97.6	94.6	91.6	89.8	89.2	88.6	88.0	87.4
97.5°	166.8	164.9	160.8	156.7	152.5	148.4	146.2	146.0	145.7	145.4	145.3
100°	208.5	205.7	201.9	198.0	194.1	190.2	188.2	188.2	188.2	188.2	188.2
102.5°	251.7	248.8	246.8	244.9	242.9	240.9	239.3	238.1	236.9	235.8	234.5
105°	323.2	321.5	319.6	317.8	316.0	314.2	312.6	311.1	309.6	308.1	306.7
107.5°	400.0	399.1	397.8	396.4	395.0	393.7	392.2	390.7	389.2	387.7	386.2
110°	452.7	451.8	450.9	450.0	449.2	448.3	447.1	445.6	444.1	442.6	441.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	506.0	505.7	504.5	503.4	502.2	501.1	500.2	499.4	498.6	497.8	497.0
115°	587.4	587.7	587.1	586.5	585.9	585.3	584.4	583.2	582.0	580.9	579.6
117.5°	667.5	667.4	666.7	666.2	665.7	665.1	664.6	664.1	663.5	663.0	662.5
120°	722.2	722.2	721.8	721.6	721.3	720.9	720.1	718.6	717.1	715.6	714.1
122.5°	775.7	776.0	775.2	774.5	773.6	772.8	772.2	771.7	771.2	770.6	770.1
125°	854.7	855.3	855.1	854.7	854.4	854.2	853.1	851.3	849.5	847.7	845.9
127.5°	932.5	932.8	932.5	932.1	931.7	931.4	930.7	929.6	928.6	927.6	926.6
130°	984.1	984.4	983.8	983.2	982.7	982.0	981.0	979.5	978.0	976.5	975.0
132.5°	1033.6	1033.9	1034.0	1034.1	1034.3	1034.4	1033.2	1030.8	1028.3	1025.9	1023.4
135°	1109.5	1109.5	1109.2	1108.9	1108.6	1108.3	1107.2	1105.5	1103.7	1101.9	1100.1
137.5°	1183.3	1182.9	1182.2	1181.6	1181.0	1180.3	1179.1	1177.3	1175.6	1173.9	1172.2
140°	1229.8	1229.2	1228.3	1227.4	1226.5	1225.6	1224.4	1222.9	1221.4	1219.9	1218.4
142.5°	1275.8	1275.4	1274.3	1273.2	1272.0	1270.9	1269.7	1268.5	1267.2	1266.0	1264.7
145°	1342.1	1342.1	1341.2	1340.3	1339.4	1338.5	1337.6	1336.3	1335.2	1333.9	1332.8
147.5°	1402.6	1401.9	1401.1	1400.4	1399.7	1399.0	1398.3	1397.7	1397.0	1396.3	1395.7
150°	1441.7	1441.7	1440.5	1439.3	1438.1	1436.9	1436.5	1436.7	1437.1	1437.3	1437.6
152.5°	1476.9	1476.1	1475.6	1475.2	1474.7	1474.2	1473.7	1473.3	1472.9	1472.5	1472.0
155°	1527.6	1526.4	1526.1	1525.8	1525.5	1525.2	1525.1	1525.1	1525.1	1525.1	1525.1
157.5°	1572.0	1570.7	1570.5	1570.2	1569.9	1569.6	1569.8	1570.4	1571.1	1571.7	1572.4
160°	1598.8	1597.7	1597.4	1597.1	1596.8	1596.5	1596.8	1597.7	1598.6	1599.5	1600.4
162.5°	1623.9	1622.4	1622.4	1622.3	1622.2	1622.2	1622.5	1623.2	1623.8	1624.4	1625.1
165°	1658.0	1656.9	1656.5	1656.3	1656.0	1655.6	1655.8	1656.4	1657.0	1657.6	1658.2
167.5°	1682.6	1680.8	1680.8	1680.8	1680.8	1680.8	1681.4	1682.6	1683.8	1685.0	1686.1
170°	1697.6	1695.9	1695.9	1695.9	1695.9	1695.9	1696.5	1697.6	1698.8	1700.0	1701.2
172.5°	1708.4	1706.6	1706.6	1706.6	1706.6	1706.6	1707.2	1708.4	1709.6	1710.8	1712.0
175°	1720.5	1718.7	1718.7	1718.7	1718.7	1718.7	1719.3	1720.5	1721.7	1722.9	1724.1
177.5°	1726.4	1724.9	1725.1	1725.4	1725.6	1725.8	1726.4	1727.4	1728.4	1729.3	1730.3
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1473.4	1477.7	1483.9	1491.1	1496.9	1503.2	1506.5	1506.5	1509.5	1515.7	1523.9
5°	1477.6	1493.2	1508.2	1527.5	1542.6	1560.0	1573.2	1585.9	1597.3	1611.8	1626.8
7.5°	1476.3	1502.4	1529.5	1559.8	1593.2	1619.8	1647.2	1668.6	1689.8	1717.4	1739.2
10°	1471.5	1505.2	1541.9	1580.5	1622.6	1659.3	1692.4	1722.5	1751.4	1781.5	1808.6
12.5°	1462.9	1505.7	1550.6	1596.9	1650.0	1692.0	1734.8	1766.8	1800.5	1833.4	1866.8
15°	1449.8	1500.4	1554.6	1619.0	1684.0	1730.9	1773.1	1814.6	1845.8	1883.2	1915.1
17.5°	1423.0	1488.2	1556.3	1626.7	1689.2	1743.7	1787.9	1827.4	1860.7	1901.8	1945.1
20°	1407.1	1477.6	1548.5	1623.8	1683.4	1739.4	1782.1	1823.0	1864.6	1918.1	1971.0
22.5°	1385.0	1460.2	1535.5	1607.0	1669.9	1723.9	1768.1	1818.2	1872.7	1933.5	1997.5
25°	1350.0	1427.6	1502.3	1570.2	1631.7	1687.0	1747.2	1814.6	1880.8	1960.9	2052.9
27.5°	1305.6	1380.4	1447.0	1518.9	1579.8	1650.3	1725.4	1798.5	1893.9	2004.0	2119.0
30°	1272.3	1343.4	1406.5	1474.5	1543.7	1621.4	1705.7	1791.7	1905.5	2034.9	2171.5
32.5°	1233.8	1298.1	1360.8	1426.4	1506.2	1591.5	1681.1	1786.5	1922.4	2069.6	2211.0
35°	1167.0	1224.8	1285.6	1358.3	1443.2	1536.0	1650.3	1778.5	1942.8	2101.0	2228.0
37.5°	1096.9	1142.5	1203.5	1280.4	1372.8	1480.1	1609.8	1765.6	1934.4	2076.3	2130.5
40°	1043.0	1085.7	1150.1	1230.8	1322.2	1439.7	1585.3	1745.3	1915.1	2013.8	2009.6
42.5°	989.5	1032.8	1094.8	1175.9	1271.2	1402.6	1552.6	1718.9	1862.2	1899.7	1821.3
45°	907.6	947.9	1008.7	1090.6	1192.8	1330.7	1488.4	1647.9	1739.4	1678.6	1523.3
47.5°	824.0	863.2	919.6	999.8	1111.5	1255.7	1404.8	1535.7	1548.5	1418.0	1231.7
50°	769.2	805.8	859.4	944.9	1053.2	1194.1	1337.9	1440.8	1408.9	1249.5	1057.5
52.5°	715.7	751.0	801.2	881.8	992.6	1130.5	1258.9	1339.7	1266.0	1096.4	923.6
55°	636.8	670.5	721.0	795.0	895.5	1022.0	1134.5	1164.0	1055.6	884.8	745.1
57.5°	561.8	586.5	636.4	701.9	798.8	910.3	990.9	985.6	866.0	712.1	612.0
60°	512.2	534.4	582.0	642.2	734.2	834.2	890.7	866.7	745.7	618.7	522.4
62.5°	465.9	486.8	526.6	582.0	661.1	748.0	789.2	755.9	641.7	530.1	453.5
65°	396.0	411.1	443.0	494.1	556.1	616.3	653.0	604.2	503.2	418.9	361.1
67.5°	330.6	343.7	372.0	408.8	451.5	493.0	508.0	462.3	383.6	326.8	286.1
70°	288.3	300.3	319.6	353.9	382.2	411.7	418.9	378.0	312.4	269.0	243.8
72.5°	247.8	259.0	275.8	300.0	319.6	336.5	339.9	301.9	251.7	221.9	202.3
75°	189.0	198.6	209.5	218.5	231.1	234.2	232.9	203.4	176.4	156.5	145.6
77.5°	138.9	142.9	149.5	153.1	153.7	153.5	147.3	128.7	114.7	106.6	102.1
80°	107.1	110.1	111.9	113.2	113.8	107.7	101.1	89.7	84.9	80.1	74.6
82.5°	77.8	79.8	81.6	81.9	78.6	73.6	67.4	61.7	58.4	56.0	53.9
85°	42.1	42.7	42.1	39.1	34.9	33.1	31.9	30.7	30.1	29.5	29.5
87.5°	15.7	14.7	12.8	13.7	14.2	14.1	14.5	14.4	14.4	14.7	15.0
90°	3.7	6.2	8.6	10.9	13.1	15.2	17.3	19.4	21.5	23.0	24.5
92.5°	34.2	35.9	37.5	39.2	41.4	44.0	46.5	49.0	51.6	53.6	55.6
95°	88.0	88.6	89.2	89.8	91.6	94.6	97.6	100.6	103.5	105.7	107.7
97.5°	145.4	145.7	146.0	146.2	148.4	152.5	156.7	160.8	164.9	166.8	168.8
100°	188.2	188.2	188.2	188.2	190.2	194.1	198.0	201.9	205.7	208.5	211.2
102.5°	235.8	236.9	238.1	239.3	240.9	242.9	244.9	246.8	248.8	251.7	254.7
105°	308.1	309.6	311.1	312.6	314.2	316.0	317.8	319.6	321.5	323.2	325.0
107.5°	387.7	389.2	390.7	392.2	393.7	395.0	396.4	397.8	399.1	400.0	400.9
110°	442.6	444.1	445.6	447.1	448.3	449.2	450.0	450.9	451.8	452.7	453.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	497.8	498.6	499.4	500.2	501.1	502.2	503.4	504.5	505.7	506.0	506.5
115°	580.9	582.0	583.2	584.4	585.3	585.9	586.5	587.1	587.7	587.4	587.1
117.5°	663.0	663.5	664.1	664.6	665.1	665.7	666.2	666.7	667.4	667.5	667.8
120°	715.6	717.1	718.6	720.1	720.9	721.3	721.6	721.8	722.2	722.2	722.2
122.5°	770.6	771.2	771.7	772.2	772.8	773.6	774.5	775.2	776.0	775.7	775.5
125°	847.7	849.5	851.3	853.1	854.2	854.4	854.7	855.1	855.3	854.7	854.2
127.5°	927.6	928.6	929.6	930.7	931.4	931.7	932.1	932.5	932.8	932.5	932.2
130°	976.5	978.0	979.5	981.0	982.0	982.7	983.2	983.8	984.4	984.1	983.8
132.5°	1025.9	1028.3	1030.8	1033.2	1034.4	1034.3	1034.1	1034.0	1033.9	1033.6	1033.3
135°	1101.9	1103.7	1105.5	1107.2	1108.3	1108.6	1108.9	1109.2	1109.5	1109.5	1109.5
137.5°	1173.9	1175.6	1177.3	1179.1	1180.3	1181.0	1181.6	1182.2	1182.9	1183.3	1183.7
140°	1219.9	1221.4	1222.9	1224.4	1225.6	1226.5	1227.4	1228.3	1229.2	1229.8	1230.4
142.5°	1266.0	1267.2	1268.5	1269.7	1270.9	1272.0	1273.2	1274.3	1275.4	1275.8	1276.1
145°	1333.9	1335.2	1336.3	1337.6	1338.5	1339.4	1340.3	1341.2	1342.1	1342.1	1342.1
147.5°	1396.3	1397.0	1397.7	1398.3	1399.0	1399.7	1400.4	1401.1	1401.9	1402.6	1403.3
150°	1437.3	1437.1	1436.7	1436.5	1436.9	1438.1	1439.3	1440.5	1441.7	1441.7	1441.7
152.5°	1472.5	1472.9	1473.3	1473.7	1474.2	1474.7	1475.2	1475.6	1476.1	1476.9	1477.6
155°	1525.1	1525.1	1525.1	1525.1	1525.2	1525.5	1525.8	1526.1	1526.4	1527.6	1528.7
157.5°	1571.7	1571.1	1570.4	1569.8	1569.6	1569.9	1570.2	1570.5	1570.7	1572.0	1573.2
160°	1599.5	1598.6	1597.7	1596.8	1596.5	1596.8	1597.1	1597.4	1597.7	1598.8	1600.1
162.5°	1624.4	1623.8	1623.2	1622.5	1622.2	1622.2	1622.3	1622.4	1622.4	1623.9	1625.3
165°	1657.6	1657.0	1656.4	1655.8	1655.6	1656.0	1656.3	1656.5	1656.9	1658.0	1659.2
167.5°	1685.0	1683.8	1682.6	1681.4	1680.8	1680.8	1680.8	1680.8	1680.8	1682.6	1684.4
170°	1700.0	1698.8	1697.6	1696.5	1695.9	1695.9	1695.9	1695.9	1695.9	1697.6	1699.4
172.5°	1710.8	1709.6	1708.4	1707.2	1706.6	1706.6	1706.6	1706.6	1706.6	1708.4	1710.2
175°	1722.9	1721.7	1720.5	1719.3	1718.7	1718.7	1718.7	1718.7	1718.7	1720.5	1722.3
177.5°	1729.3	1728.4	1727.4	1726.4	1725.8	1725.6	1725.4	1725.1	1724.9	1726.4	1727.8
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1530.2	1530.2	1538.4	1537.8	1543.2	1541.2	1542.2
5°	1644.8	1655.1	1664.1	1670.2	1679.2	1681.6	1680.3
7.5°	1763.8	1786.5	1797.6	1812.8	1815.5	1823.5	1822.7
10°	1837.5	1859.8	1876.6	1889.8	1896.4	1904.9	1905.5
12.5°	1895.2	1914.1	1929.0	1941.3	1949.4	1952.0	1953.6
15°	1940.4	1961.4	1978.9	1996.4	2006.6	2014.4	2018.7
17.5°	1985.8	2018.4	2049.2	2072.9	2087.1	2099.2	2099.0
20°	2021.1	2058.3	2096.9	2124.0	2151.6	2163.6	2165.4
22.5°	2058.6	2115.7	2165.3	2207.3	2243.5	2256.1	2260.8
25°	2136.5	2211.2	2287.7	2346.6	2388.7	2413.4	2417.1
27.5°	2230.8	2331.8	2412.3	2466.7	2501.7	2520.0	2523.9
30°	2297.3	2390.6	2462.8	2503.7	2520.0	2522.4	2513.4
32.5°	2327.1	2396.8	2425.7	2423.3	2391.4	2370.3	2362.1
35°	2290.6	2276.2	2205.8	2121.6	2057.2	2016.2	2005.4
37.5°	2084.6	1960.0	1830.5	1703.2	1635.4	1600.9	1541.7
40°	1881.4	1703.9	1569.1	1461.9	1385.5	1324.1	1309.7
42.5°	1652.3	1468.9	1334.1	1242.3	1181.3	1139.2	1120.9
45°	1327.7	1170.0	1058.6	988.3	941.3	910.6	896.8
47.5°	1061.9	939.9	858.7	806.6	770.9	744.1	736.6
50°	916.1	818.5	749.9	706.0	678.9	658.4	650.0
52.5°	795.7	716.9	664.2	627.9	602.4	589.6	582.6
55°	656.7	588.6	550.7	521.8	507.4	497.1	492.3
57.5°	537.0	487.9	460.2	440.2	426.9	420.4	417.9
60°	470.0	431.5	406.3	390.6	381.6	373.2	370.8
62.5°	410.8	380.5	361.0	347.2	338.2	334.7	333.1
65°	331.0	311.1	296.7	288.3	281.1	279.8	279.3
67.5°	263.1	251.5	243.9	235.1	232.6	228.4	227.5
70°	225.1	217.3	208.2	205.3	202.2	198.0	198.6
72.5°	190.9	183.1	176.9	173.0	171.9	170.0	171.7
75°	139.6	137.2	134.8	131.8	130.6	130.6	130.0
77.5°	99.7	97.6	95.0	93.2	92.8	90.2	91.2
80°	72.2	69.2	68.0	68.6	66.8	66.2	66.2
82.5°	53.4	52.3	51.2	51.3	50.9	50.3	50.8
85°	29.5	28.9	28.9	28.3	28.3	27.6	27.6
87.5°	15.8	16.6	15.9	15.5	15.7	16.4	17.0
90°	26.0	27.5	28.7	29.6	30.5	31.4	32.3
92.5°	57.5	59.6	60.8	61.5	62.2	62.8	63.5
95°	109.9	111.9	113.2	113.9	114.5	115.0	115.7
97.5°	170.8	172.7	174.0	174.3	174.7	175.0	175.4
100°	213.8	216.5	218.2	218.7	219.4	220.0	220.5
102.5°	257.6	260.5	262.4	263.2	264.0	264.9	265.7
105°	326.8	328.6	329.9	330.8	331.7	332.6	333.5
107.5°	401.8	402.7	403.1	403.1	403.1	403.0	402.9
110°	454.6	455.5	455.8	455.5	455.1	454.9	454.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	506.9	507.3	507.3	506.8	506.2	505.7	505.2
115°	586.8	586.5	586.2	585.9	585.6	585.3	585.1
117.5°	668.1	668.2	667.8	666.6	665.4	664.2	663.0
120°	722.2	722.2	721.6	720.4	719.2	718.0	716.8
122.5°	775.3	775.0	774.5	773.5	772.5	771.5	770.6
125°	853.5	852.9	852.5	852.2	851.9	851.6	851.3
127.5°	931.9	931.6	931.1	930.5	930.0	929.3	928.7
130°	983.6	983.2	982.8	982.2	981.6	981.0	980.4
132.5°	1033.0	1032.7	1032.2	1031.4	1030.5	1029.7	1028.8
135°	1109.5	1109.5	1108.9	1107.7	1106.5	1105.3	1104.1
137.5°	1184.0	1184.4	1183.8	1182.3	1180.8	1179.3	1177.8
140°	1231.0	1231.5	1231.1	1229.7	1228.2	1226.6	1225.1
142.5°	1276.5	1276.9	1276.3	1274.8	1273.4	1271.8	1270.3
145°	1342.1	1342.1	1341.7	1340.8	1339.9	1339.0	1338.1
147.5°	1404.0	1404.7	1404.1	1402.0	1400.0	1398.0	1396.0
150°	1441.7	1441.7	1441.4	1440.7	1440.2	1439.6	1439.0
152.5°	1478.3	1479.0	1478.8	1477.7	1476.7	1475.6	1474.5
155°	1530.0	1531.2	1531.1	1529.6	1528.0	1526.5	1525.1
157.5°	1574.4	1575.6	1575.2	1573.2	1571.2	1569.2	1567.3
160°	1601.2	1602.5	1602.3	1600.8	1599.3	1597.9	1596.3
162.5°	1626.7	1628.2	1628.0	1626.3	1624.5	1622.8	1621.0
165°	1660.5	1661.6	1661.3	1659.6	1657.8	1656.0	1654.1
167.5°	1686.1	1687.9	1687.9	1686.0	1684.3	1682.4	1680.5
170°	1701.2	1703.0	1702.9	1700.8	1698.7	1696.6	1694.5
172.5°	1712.0	1713.8	1713.8	1711.9	1710.0	1708.2	1706.4
175°	1724.1	1725.9	1725.7	1723.7	1721.5	1719.5	1717.3
177.5°	1729.2	1730.6	1730.5	1728.8	1727.2	1725.5	1723.9
180°	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1	1728.1

(END OF REPORT)