

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: P333455-940

Luminaire Tested: **S125DIW-S1090D1560U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333455-940
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: S125DIW-S1090D1560U940-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8827.3 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

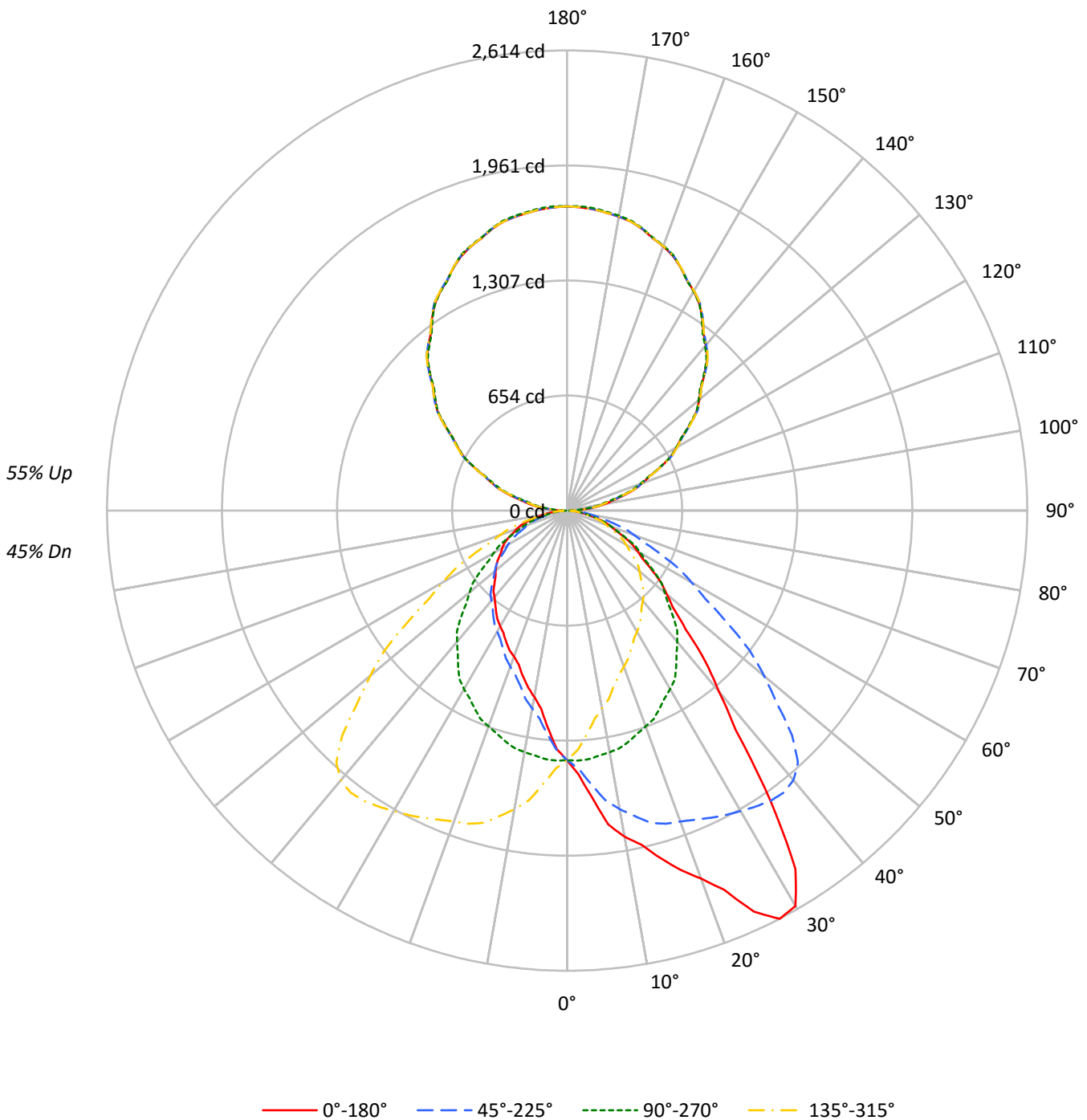
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	81	81	66	66	66	52	52	52	45
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44	39
2	88	81	75	70	81	75	70	65	62	59	56	51	49	46	41	39	37	33
3	81	71	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	63	56	50	68	58	52	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	43	62	52	45	40	44	39	35	36	32	29	29	27	24	21
6	62	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18
7	58	46	38	32	53	42	35	30	36	30	27	30	26	23	24	21	19	16
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9158	9158	9158	9158
5°	10605	9189	8045	9189
10°	12338	9141	7050	9141
15°	13658	9074	6503	9074
20°	15289	8968	6064	8968
25°	17910	8848	5850	8848
30°	19345	8730	5665	8730
35°	15906	8508	5542	8508
40°	11306	8200	5409	8200
45°	8685	7784	5332	7784
50°	7414	7268	5322	7268
55°	6600	6764	5368	6764
60°	5955	6212	5504	6212
65°	5500	5656	5647	5656
70°	5000	5080	5729	5080
75°	4414	4474	5677	4474
80°	3715	3649	5192	3649
85°	2942	2631	4187	2631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.5
10°-20°	406.4	4.6
20°-30°	660.0	7.5
30°-40°	805.0	9.1
40°-50°	732.3	8.3
50°-60°	583.3	6.6
60°-70°	406.3	4.6
70°-80°	216.7	2.5
80°-90°	58.5	0.7
90°-100°	115.7	1.3
100°-110°	341.8	3.9
110°-120°	578.9	6.6
120°-130°	761.9	8.6
130°-140°	853.7	9.7
140°-150°	836.7	9.5
150°-160°	702.8	8.0
160°-170°	467.2	5.3
170°-180°	163.5	1.9
0°-30°	1202.9	13.6
0°-40°	2008.0	22.7
0°-60°	3323.6	37.7
0°-90°	4005.1	45.4
90°-120°	1036.5	11.7
90°-150°	3488.8	39.5
90°-180°	4822.0	54.6
0°-180°	8827.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1636	1417	1241	1417	1636	165
15°	2043	1357	973	1357	2043	585
25°	2513	1242	821	1242	2513	1148
35°	2017	1079	703	1079	2017	1235
45°	951	852	584	852	951	761
55°	586	601	477	601	586	528
65°	360	370	370	370	360	357
75°	177	179	228	179	177	191
85°	40	36	56	36	40	47
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°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1499.9	1497.9	1496.0	1492.1	1495.0	1486.8	1483.0	1476.2	1468.0	1465.2	1461.8
5°	1635.8	1638.9	1641.9	1629.2	1630.4	1622.0	1602.8	1587.1	1574.5	1558.2	1546.8
7.5°	1799.6	1792.4	1791.9	1783.7	1769.6	1758.3	1738.0	1712.3	1687.4	1658.9	1635.5
10°	1881.4	1882.0	1876.6	1867.0	1851.9	1841.1	1814.6	1789.3	1758.6	1722.5	1696.7
12.5°	1943.0	1945.5	1938.8	1925.7	1918.3	1894.1	1873.4	1843.3	1806.8	1777.9	1738.6
15°	2042.7	2036.1	2031.3	2015.0	2002.4	1977.1	1944.0	1912.7	1872.9	1836.3	1799.6
17.5°	2138.8	2144.0	2135.0	2120.2	2081.0	2051.5	2007.1	1964.3	1914.8	1865.5	1821.7
20°	2224.5	2229.3	2215.5	2189.6	2142.6	2113.2	2054.8	1999.4	1942.2	1879.0	1830.9
22.5°	2331.4	2327.5	2308.8	2269.5	2228.8	2174.3	2111.1	2043.7	1972.0	1900.7	1836.7
25°	2513.4	2488.1	2476.6	2428.0	2374.4	2294.3	2207.6	2108.9	2019.8	1925.4	1843.5
27.5°	2614.2	2606.3	2593.5	2559.6	2503.3	2417.7	2315.5	2195.2	2069.6	1950.3	1843.2
30°	2594.0	2595.2	2596.4	2585.6	2549.5	2485.1	2383.4	2254.0	2104.7	1970.5	1846.5
32.5°	2414.9	2436.8	2457.7	2482.5	2492.7	2480.3	2416.6	2299.7	2146.1	1993.6	1844.6
35°	2017.4	2024.1	2092.0	2159.5	2250.9	2322.0	2369.5	2317.7	2188.3	2013.2	1842.3
37.5°	1573.1	1605.5	1652.6	1728.8	1860.8	1979.1	2131.1	2201.0	2159.3	2019.6	1838.1
40°	1341.0	1371.0	1401.8	1479.3	1590.7	1733.9	1906.7	2054.1	2088.5	1999.4	1823.6
42.5°	1161.8	1185.7	1219.8	1278.1	1371.2	1498.1	1663.0	1855.7	1974.3	1940.6	1793.3
45°	950.9	966.0	992.5	1038.8	1106.3	1205.5	1351.2	1561.8	1745.4	1806.2	1721.4
47.5°	814.0	813.9	834.5	866.5	915.1	999.4	1107.1	1272.2	1468.3	1613.4	1606.6
50°	737.9	734.9	751.1	778.8	817.3	873.3	976.2	1108.0	1296.4	1460.7	1506.5
52.5°	672.4	672.8	682.8	703.2	735.5	783.3	860.1	979.0	1140.0	1308.6	1394.7
55°	586.2	583.8	595.2	609.1	632.6	663.9	719.3	810.1	940.7	1106.8	1218.8
57.5°	507.2	513.9	518.4	528.1	547.6	568.6	615.2	681.9	785.5	928.1	1046.4
60°	461.0	467.6	471.3	480.9	496.5	514.6	550.7	604.8	692.1	814.9	932.3
62.5°	419.6	424.8	426.0	434.6	447.5	465.0	493.4	539.0	607.9	715.2	830.2
65°	359.9	359.9	362.3	371.3	377.4	393.0	414.6	447.8	503.2	586.8	684.9
67.5°	302.4	305.2	304.7	308.6	314.1	326.4	341.9	369.2	410.2	471.3	549.7
70°	264.8	267.2	266.6	269.7	275.6	283.5	296.1	322.0	351.5	403.9	471.3
72.5°	231.1	232.1	230.5	234.5	238.1	245.0	259.0	272.9	300.4	344.6	400.0
75°	176.9	178.2	179.3	181.7	185.4	189.0	196.2	210.1	228.1	261.2	296.8
77.5°	132.7	130.4	133.2	132.9	134.9	137.7	144.1	151.4	166.2	187.2	214.6
80°	99.9	100.5	100.5	101.1	104.2	105.9	111.4	116.7	128.2	143.8	163.1
82.5°	72.9	74.5	73.6	74.6	77.1	78.5	81.5	86.0	92.6	104.9	118.8
85°	39.7	36.7	37.9	39.1	39.1	39.7	42.1	44.0	47.5	52.3	57.8
87.5°	18.0	18.8	19.1	18.9	19.3	19.0	20.6	20.3	21.5	22.6	24.1
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°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1458.9	1455.5	1451.7	1444.9	1436.7	1432.4	1425.7	1421.4	1412.6	1405.4	1397.8
5°	1532.9	1517.3	1502.9	1484.2	1463.7	1450.5	1434.9	1417.4	1399.4	1380.6	1360.2
7.5°	1609.6	1581.9	1551.8	1519.5	1487.8	1458.7	1430.8	1403.6	1378.0	1347.2	1321.1
10°	1661.2	1626.2	1588.9	1545.0	1502.3	1464.9	1427.0	1393.9	1360.2	1324.1	1292.2
12.5°	1712.6	1666.2	1613.5	1565.2	1513.8	1468.7	1424.2	1381.9	1339.5	1299.6	1262.3
15°	1749.0	1708.1	1659.3	1590.7	1532.9	1471.0	1411.9	1357.2	1306.0	1261.5	1214.6
17.5°	1773.0	1720.2	1667.9	1602.0	1526.3	1457.0	1390.2	1327.5	1269.8	1213.4	1168.1
20°	1777.3	1723.1	1668.4	1603.9	1526.3	1446.9	1380.1	1304.8	1242.9	1184.5	1129.1
22.5°	1775.8	1714.5	1654.8	1588.6	1512.9	1439.7	1358.9	1282.2	1215.0	1157.5	1099.7
25°	1762.3	1696.7	1622.0	1555.2	1480.6	1402.9	1321.1	1241.6	1173.0	1107.4	1050.3
27.5°	1751.0	1665.8	1581.4	1503.4	1431.4	1360.2	1281.8	1200.5	1124.4	1057.9	1004.1
30°	1737.0	1643.7	1548.5	1467.3	1393.3	1324.1	1250.1	1170.6	1091.2	1026.2	968.4
32.5°	1724.5	1615.8	1515.4	1426.9	1348.5	1281.2	1213.0	1137.4	1059.4	993.5	935.7
35°	1700.2	1574.5	1459.6	1359.6	1275.9	1206.8	1149.6	1079.1	1007.5	943.7	888.3
37.5°	1669.6	1520.3	1397.0	1292.2	1200.5	1127.6	1074.3	1020.3	951.5	890.0	840.0
40°	1645.5	1481.8	1351.2	1244.0	1149.0	1073.1	1023.8	972.6	915.4	858.3	805.3
42.5°	1615.2	1447.2	1304.9	1189.6	1095.5	1021.6	969.8	926.4	875.9	822.6	773.5
45°	1559.4	1384.3	1230.2	1106.3	1011.1	938.3	884.8	852.2	814.3	763.8	722.2
47.5°	1477.5	1308.8	1149.4	1021.5	923.4	855.9	805.7	774.5	747.8	710.2	672.5
50°	1404.7	1252.5	1091.2	964.2	866.1	798.1	751.7	723.4	700.5	671.6	639.8
52.5°	1323.4	1181.7	1033.8	908.3	811.2	744.1	698.7	673.9	654.8	634.1	602.7
55°	1194.1	1073.7	936.5	817.3	727.6	662.0	622.3	600.7	585.1	569.4	550.1
57.5°	1051.7	957.5	836.0	727.0	644.4	584.8	547.7	526.6	514.4	506.4	495.1
60°	951.5	870.9	766.2	666.8	586.2	533.2	497.1	480.9	470.6	464.0	455.6
62.5°	858.6	792.4	695.4	604.8	534.2	484.1	451.9	436.1	426.3	423.1	416.2
65°	721.7	670.5	590.4	515.2	455.0	412.2	385.2	370.1	364.1	360.5	361.1
67.5°	586.7	555.5	491.2	427.0	379.1	343.2	321.6	310.0	306.9	302.1	302.0
70°	504.4	480.9	426.7	370.8	328.0	300.3	281.1	269.0	266.0	263.6	263.1
72.5°	431.7	411.1	364.1	319.2	280.8	256.5	240.6	233.4	228.5	227.0	226.9
75°	324.4	313.0	275.6	240.1	213.7	196.8	186.0	179.3	175.8	175.1	175.8
77.5°	230.6	220.6	196.9	171.7	155.1	142.3	133.1	130.8	126.7	126.9	126.3
80°	173.3	166.7	151.7	131.8	118.0	107.1	102.3	98.1	96.9	95.1	96.9
82.5°	125.6	118.6	108.3	95.7	84.3	77.8	72.9	71.6	70.9	70.1	70.4
85°	62.0	62.6	56.5	46.9	42.1	38.5	35.5	35.5	34.9	34.3	34.9
87.5°	24.6	23.3	21.0	19.0	16.1	14.3	13.3	13.3	12.3	12.3	13.3
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: P333455-940

CATALOG NUMBER: S125DIW-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°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1393.4	1388.1	1383.8	1374.1	1368.9	1361.6	1355.8	1362.1	1355.4	1358.3	1354.0
5°	1350.0	1333.1	1321.1	1303.6	1288.6	1274.7	1264.5	1262.7	1257.8	1255.4	1248.2
7.5°	1297.7	1276.7	1256.0	1233.1	1213.8	1194.2	1181.7	1171.4	1164.5	1155.5	1149.3
10°	1266.9	1238.6	1214.6	1186.9	1162.8	1141.7	1124.9	1116.4	1108.7	1097.2	1093.0
12.5°	1228.9	1199.6	1170.3	1140.7	1117.5	1094.0	1079.6	1066.8	1061.4	1048.6	1047.2
15°	1183.3	1139.3	1110.4	1080.3	1048.5	1029.2	1017.2	1003.3	997.3	988.3	981.6
17.5°	1128.8	1089.6	1053.5	1022.3	995.0	978.7	963.9	954.3	944.0	938.1	927.2
20°	1089.4	1052.0	1015.9	982.8	961.8	943.1	931.0	922.0	911.2	908.2	897.4
22.5°	1056.1	1014.9	980.3	952.5	929.5	908.5	895.5	889.3	881.8	872.5	870.4
25°	1002.1	959.4	929.9	902.2	881.7	862.5	853.5	845.6	838.4	831.8	829.4
27.5°	955.4	917.2	882.2	857.2	839.4	821.8	813.9	804.3	799.1	793.7	787.2
30°	922.7	883.5	852.8	828.8	809.5	793.9	785.4	778.8	774.0	769.2	765.5
32.5°	888.9	852.7	823.0	799.4	780.2	768.3	760.9	756.2	750.9	745.1	740.6
35°	844.5	804.7	775.8	755.4	740.3	731.3	722.8	718.6	712.6	712.6	707.8
37.5°	794.2	759.9	734.4	715.8	702.2	694.2	685.0	682.2	678.3	675.7	674.0
40°	764.4	732.5	708.4	689.7	675.3	668.7	661.5	656.7	654.2	651.2	650.0
42.5°	733.5	703.1	680.0	662.8	650.2	644.6	637.8	634.5	629.6	625.7	625.0
45°	686.7	657.2	636.1	622.3	611.4	604.8	600.7	593.4	591.0	586.2	585.6
47.5°	642.3	614.0	593.3	582.0	572.5	567.0	560.4	553.2	550.5	548.0	547.8
50°	609.1	583.2	563.9	553.1	544.1	536.3	529.7	524.9	523.0	523.0	524.2
52.5°	575.4	553.3	537.0	523.7	515.2	506.8	500.8	497.8	495.1	498.0	500.2
55°	526.0	503.7	491.7	479.1	470.6	461.0	458.0	456.8	455.0	459.9	462.3
57.5°	473.8	458.2	444.1	431.5	423.9	418.4	414.3	413.6	417.0	419.3	427.0
60°	440.6	422.5	409.8	400.2	391.2	387.6	386.4	385.2	387.6	394.2	404.5
62.5°	403.9	389.3	375.7	368.5	361.9	355.8	355.6	356.3	361.1	368.7	378.9
65°	350.3	337.6	328.6	320.2	314.8	311.1	312.4	314.8	320.2	330.4	341.9
67.5°	295.8	287.1	279.0	272.2	267.0	267.0	268.2	271.8	278.2	290.0	300.4
70°	260.6	251.0	244.3	241.4	237.1	234.7	238.4	244.3	249.8	260.6	269.7
72.5°	225.4	217.3	212.1	210.1	208.2	206.3	207.5	214.0	221.3	232.2	242.6
75°	173.3	170.3	166.7	164.3	162.5	163.7	164.9	170.9	176.9	188.4	200.5
77.5°	126.5	123.4	121.2	120.6	119.7	120.3	123.6	128.0	133.9	142.3	151.4
80°	95.7	94.5	93.3	92.6	92.6	93.3	98.1	101.1	106.6	114.3	121.5
82.5°	69.7	68.9	68.8	68.6	69.1	69.2	72.1	76.1	80.5	86.4	92.6
85°	36.7	35.5	37.3	37.9	36.7	38.5	39.7	42.1	44.0	46.9	49.9
87.5°	14.2	15.6	15.6	16.5	16.9	18.3	18.1	20.3	21.6	22.8	22.6
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°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1351.0	1354.4	1351.6	1355.4	1351.6	1354.4	1351.0	1354.0	1358.3	1355.4	1362.1
5°	1245.3	1239.8	1243.4	1241.0	1243.4	1239.8	1245.3	1248.2	1255.4	1257.8	1262.7
7.5°	1147.5	1142.4	1136.4	1133.6	1136.4	1142.4	1147.5	1149.3	1155.5	1164.5	1171.4
10°	1086.4	1079.8	1079.1	1075.0	1079.1	1079.8	1086.4	1093.0	1097.2	1108.7	1116.4
12.5°	1041.6	1035.5	1028.6	1026.8	1028.6	1035.5	1041.6	1047.2	1048.6	1061.4	1066.8
15°	978.0	973.2	969.0	972.6	969.0	973.2	978.0	981.6	988.3	997.3	1003.3
17.5°	925.1	921.2	920.5	916.1	920.5	921.2	925.1	927.2	938.1	944.0	954.3
20°	892.0	888.9	890.2	882.3	890.2	888.9	892.0	897.4	908.2	911.2	922.0
22.5°	865.5	859.6	858.9	857.3	858.9	859.6	865.5	870.4	872.5	881.8	889.3
25°	823.9	820.9	818.0	820.9	818.0	820.9	823.9	829.4	831.8	838.4	845.6
27.5°	787.7	784.1	783.3	783.6	783.3	784.1	787.7	787.2	793.7	799.1	804.3
30°	765.5	759.6	760.2	759.6	760.2	759.6	765.5	765.5	769.2	774.0	778.8
32.5°	741.5	737.4	736.6	735.5	736.6	737.4	741.5	740.6	745.1	750.9	756.2
35°	706.0	706.0	702.9	702.9	702.9	706.0	706.0	707.8	712.6	712.6	718.6
37.5°	672.6	672.0	670.2	670.5	670.2	672.0	672.6	674.0	675.7	678.3	682.2
40°	647.6	647.0	645.2	641.6	645.2	647.0	647.6	650.0	651.2	654.2	656.7
42.5°	623.5	621.5	620.6	619.5	620.6	621.5	623.5	625.0	625.7	629.6	634.5
45°	585.6	585.6	584.4	583.8	584.4	585.6	585.6	585.6	586.2	591.0	593.4
47.5°	548.8	549.8	552.1	551.8	552.1	549.8	548.8	547.8	548.0	550.5	553.2
50°	526.6	527.3	529.1	529.7	529.1	527.3	526.6	524.2	523.0	523.0	524.9
52.5°	502.0	505.6	507.8	507.5	507.8	505.6	502.0	500.2	498.0	495.1	497.8
55°	467.6	471.9	476.1	476.7	476.1	471.9	467.6	462.3	459.9	455.0	456.8
57.5°	433.5	439.4	443.9	445.4	443.9	439.4	433.5	427.0	419.3	417.0	413.6
60°	410.5	418.3	423.7	426.1	423.7	418.3	410.5	404.5	394.2	387.6	385.2
62.5°	388.3	397.1	402.5	403.0	402.5	397.1	388.3	378.9	368.7	361.1	356.3
65°	352.0	361.1	366.0	369.5	366.0	361.1	352.0	341.9	330.4	320.2	314.8
67.5°	313.1	322.1	327.4	330.3	327.4	322.1	313.1	300.4	290.0	278.2	271.8
70°	284.7	293.7	301.0	303.4	301.0	293.7	284.7	269.7	260.6	249.8	244.3
72.5°	256.7	264.8	270.6	273.5	270.6	264.8	256.7	242.6	232.2	221.3	214.0
75°	208.2	219.1	224.5	227.5	224.5	219.1	208.2	200.5	188.4	176.9	170.9
77.5°	160.6	170.4	173.7	175.2	173.7	170.4	160.6	151.4	142.3	133.9	128.0
80°	128.8	134.8	139.0	139.6	139.0	134.8	128.8	121.5	114.3	106.6	101.1
82.5°	99.0	104.0	105.3	106.9	105.3	104.0	99.0	92.6	86.4	80.5	76.1
85°	54.1	56.5	57.2	56.5	57.2	56.5	54.1	49.9	46.9	44.0	42.1
87.5°	23.7	23.5	23.6	24.8	23.6	23.5	23.7	22.6	22.8	21.6	20.3
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



TEST NUMBER: P333455-940

CATALOG NUMBER: S125DIW-S1090D1560U940-4F0-1E-UDD-A1

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°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1355.8	1361.6	1368.9	1374.1	1383.8	1388.1	1393.4	1397.8	1405.4	1412.6	1421.4
5°	1264.5	1274.7	1288.6	1303.6	1321.1	1333.1	1350.0	1360.2	1380.6	1399.4	1417.4
7.5°	1181.7	1194.2	1213.8	1233.1	1256.0	1276.7	1297.7	1321.1	1347.2	1378.0	1403.6
10°	1124.9	1141.7	1162.8	1186.9	1214.6	1238.6	1266.9	1292.2	1324.1	1360.2	1393.9
12.5°	1079.6	1094.0	1117.5	1140.7	1170.3	1199.6	1228.9	1262.3	1299.6	1339.5	1381.9
15°	1017.2	1029.2	1048.5	1080.3	1110.4	1139.3	1183.3	1214.6	1261.5	1306.0	1357.2
17.5°	963.9	978.7	995.0	1022.3	1053.5	1089.6	1128.8	1168.1	1213.4	1269.8	1327.5
20°	931.0	943.1	961.8	982.8	1015.9	1052.0	1089.4	1129.1	1184.5	1242.9	1304.8
22.5°	895.5	908.5	929.5	952.5	980.3	1014.9	1056.1	1099.7	1157.5	1215.0	1282.2
25°	853.5	862.5	881.7	902.2	929.9	959.4	1002.1	1050.3	1107.4	1173.0	1241.6
27.5°	813.9	821.8	839.4	857.2	882.2	917.2	955.4	1004.1	1057.9	1124.4	1200.5
30°	785.4	793.9	809.5	828.8	852.8	883.5	922.7	968.4	1026.2	1091.2	1170.6
32.5°	760.9	768.3	780.2	799.4	823.0	852.7	888.9	935.7	993.5	1059.4	1137.4
35°	722.8	731.3	740.3	755.4	775.8	804.7	844.5	888.3	943.7	1007.5	1079.1
37.5°	685.0	694.2	702.2	715.8	734.4	759.9	794.2	840.0	890.0	951.5	1020.3
40°	661.5	668.7	675.3	689.7	708.4	732.5	764.4	805.3	858.3	915.4	972.6
42.5°	637.8	644.6	650.2	662.8	680.0	703.1	733.5	773.5	822.6	875.9	926.4
45°	600.7	604.8	611.4	622.3	636.1	657.2	686.7	722.2	763.8	814.3	852.2
47.5°	560.4	567.0	572.5	582.0	593.3	614.0	642.3	672.5	710.2	747.8	774.5
50°	529.7	536.3	544.1	553.1	563.9	583.2	609.1	639.8	671.6	700.5	723.4
52.5°	500.8	506.8	515.2	523.7	537.0	553.3	575.4	602.7	634.1	654.8	673.9
55°	458.0	461.0	470.6	479.1	491.7	503.7	526.0	550.1	569.4	585.1	600.7
57.5°	414.3	418.4	423.9	431.5	444.1	458.2	473.8	495.1	506.4	514.4	526.6
60°	386.4	387.6	391.2	400.2	409.8	422.5	440.6	455.6	464.0	470.6	480.9
62.5°	355.6	355.8	361.9	368.5	375.7	389.3	403.9	416.2	423.1	426.3	436.1
65°	312.4	311.1	314.8	320.2	328.6	337.6	350.3	361.1	360.5	364.1	370.1
67.5°	268.2	267.0	267.0	272.2	279.0	287.1	295.8	302.0	302.1	306.9	310.0
70°	238.4	234.7	237.1	241.4	244.3	251.0	260.6	263.1	263.6	266.0	269.0
72.5°	207.5	206.3	208.2	210.1	212.1	217.3	225.4	226.9	227.0	228.5	233.4
75°	164.9	163.7	162.5	164.3	166.7	170.3	173.3	175.8	175.1	175.8	179.3
77.5°	123.6	120.3	119.7	120.6	121.2	123.4	126.5	126.3	126.9	126.7	130.8
80°	98.1	93.3	92.6	92.6	93.3	94.5	95.7	96.9	95.1	96.9	98.1
82.5°	72.1	69.2	69.1	68.6	68.8	68.9	69.7	70.4	70.1	70.9	71.6
85°	39.7	38.5	36.7	37.9	37.3	35.5	36.7	34.9	34.3	34.9	35.5
87.5°	18.1	18.3	16.9	16.5	15.6	15.6	14.2	13.3	12.3	12.3	13.3
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°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1425.7	1432.4	1436.7	1444.9	1451.7	1455.5	1458.9	1461.8	1465.2	1468.0	1476.2
5°	1434.9	1450.5	1463.7	1484.2	1502.9	1517.3	1532.9	1546.8	1558.2	1574.5	1587.1
7.5°	1430.8	1458.7	1487.8	1519.5	1551.8	1581.9	1609.6	1635.5	1658.9	1687.4	1712.3
10°	1427.0	1464.9	1502.3	1545.0	1588.9	1626.2	1661.2	1696.7	1722.5	1758.6	1789.3
12.5°	1424.2	1468.7	1513.8	1565.2	1613.5	1666.2	1712.6	1738.6	1777.9	1806.8	1843.3
15°	1411.9	1471.0	1532.9	1590.7	1659.3	1708.1	1749.0	1799.6	1836.3	1872.9	1912.7
17.5°	1390.2	1457.0	1526.3	1602.0	1667.9	1720.2	1773.0	1821.7	1865.5	1914.8	1964.3
20°	1380.1	1446.9	1526.3	1603.9	1668.4	1723.1	1777.3	1830.9	1879.0	1942.2	1999.4
22.5°	1358.9	1439.7	1512.9	1588.6	1654.8	1714.5	1775.8	1836.7	1900.7	1972.0	2043.7
25°	1321.1	1402.9	1480.6	1555.2	1622.0	1696.7	1762.3	1843.5	1925.4	2019.8	2108.9
27.5°	1281.8	1360.2	1431.4	1503.4	1581.4	1665.8	1751.0	1843.2	1950.3	2069.6	2195.2
30°	1250.1	1324.1	1393.3	1467.3	1548.5	1643.7	1737.0	1846.5	1970.5	2104.7	2254.0
32.5°	1213.0	1281.2	1348.5	1426.9	1515.4	1615.8	1724.5	1844.6	1993.6	2146.1	2299.7
35°	1149.6	1206.8	1275.9	1359.6	1459.6	1574.5	1700.2	1842.3	2013.2	2188.3	2317.7
37.5°	1074.3	1127.6	1200.5	1292.2	1397.0	1520.3	1669.6	1838.1	2019.6	2159.3	2201.0
40°	1023.8	1073.1	1149.0	1244.0	1351.2	1481.8	1645.5	1823.6	1999.4	2088.5	2054.1
42.5°	969.8	1021.6	1095.5	1189.6	1304.9	1447.2	1615.2	1793.3	1940.6	1974.3	1855.7
45°	884.8	938.3	1011.1	1106.3	1230.2	1384.3	1559.4	1721.4	1806.2	1745.4	1561.8
47.5°	805.7	855.9	923.4	1021.5	1149.4	1308.8	1477.5	1606.6	1613.4	1468.3	1272.2
50°	751.7	798.1	866.1	964.2	1091.2	1252.5	1404.7	1506.5	1460.7	1296.4	1108.0
52.5°	698.7	744.1	811.2	908.3	1033.8	1181.7	1323.4	1394.7	1308.6	1140.0	979.0
55°	622.3	662.0	727.6	817.3	936.5	1073.7	1194.1	1218.8	1106.8	940.7	810.1
57.5°	547.7	584.8	644.4	727.0	836.0	957.5	1051.7	1046.4	928.1	785.5	681.9
60°	497.1	533.2	586.2	666.8	766.2	870.9	951.5	932.3	814.9	692.1	604.8
62.5°	451.9	484.1	534.2	604.8	695.4	792.4	858.6	830.2	715.2	607.9	539.0
65°	385.2	412.2	455.0	515.2	590.4	670.5	721.7	684.9	586.8	503.2	447.8
67.5°	321.6	343.2	379.1	427.0	491.2	555.5	586.7	549.7	471.3	410.2	369.2
70°	281.1	300.3	328.0	370.8	426.7	480.9	504.4	471.3	403.9	351.5	322.0
72.5°	240.6	256.5	280.8	319.2	364.1	411.1	431.7	400.0	344.6	300.4	272.9
75°	186.0	196.8	213.7	240.1	275.6	313.0	324.4	296.8	261.2	228.1	210.1
77.5°	133.1	142.3	155.1	171.7	196.9	220.6	230.6	214.6	187.2	166.2	151.4
80°	102.3	107.1	118.0	131.8	151.7	166.7	173.3	163.1	143.8	128.2	116.7
82.5°	72.9	77.8	84.3	95.7	108.3	118.6	125.6	118.8	104.9	92.6	86.0
85°	35.5	38.5	42.1	46.9	56.5	62.6	62.0	57.8	52.3	47.5	44.0
87.5°	13.3	14.3	16.1	19.0	21.0	23.3	24.6	24.1	22.6	21.5	20.3
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°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1483.0	1486.8	1495.0	1492.1	1496.0	1497.9	1499.9
5°	1602.8	1622.0	1630.4	1629.2	1641.9	1638.9	1635.8
7.5°	1738.0	1758.3	1769.6	1783.7	1791.9	1792.4	1799.6
10°	1814.6	1841.1	1851.9	1867.0	1876.6	1882.0	1881.4
12.5°	1873.4	1894.1	1918.3	1925.7	1938.8	1945.5	1943.0
15°	1944.0	1977.1	2002.4	2015.0	2031.3	2036.1	2042.7
17.5°	2007.1	2051.5	2081.0	2120.2	2135.0	2144.0	2138.8
20°	2054.8	2113.2	2142.6	2189.6	2215.5	2229.3	2224.5
22.5°	2111.1	2174.3	2228.8	2269.5	2308.8	2327.5	2331.4
25°	2207.6	2294.3	2374.4	2428.0	2476.6	2488.1	2513.4
27.5°	2315.5	2417.7	2503.3	2559.6	2593.5	2606.3	2614.2
30°	2383.4	2485.1	2549.5	2585.6	2596.4	2595.2	2594.0
32.5°	2416.6	2480.3	2492.7	2482.5	2457.7	2436.8	2414.9
35°	2369.5	2322.0	2250.9	2159.5	2092.0	2024.1	2017.4
37.5°	2131.1	1979.1	1860.8	1728.8	1652.6	1605.5	1573.1
40°	1906.7	1733.9	1590.7	1479.3	1401.8	1371.0	1341.0
42.5°	1663.0	1498.1	1371.2	1278.1	1219.8	1185.7	1161.8
45°	1351.2	1205.5	1106.3	1038.8	992.5	966.0	950.9
47.5°	1107.1	999.4	915.1	866.5	834.5	813.9	814.0
50°	976.2	873.3	817.3	778.8	751.1	734.9	737.9
52.5°	860.1	783.3	735.5	703.2	682.8	672.8	672.4
55°	719.3	663.9	632.6	609.1	595.2	583.8	586.2
57.5°	615.2	568.6	547.6	528.1	518.4	513.9	507.2
60°	550.7	514.6	496.5	480.9	471.3	467.6	461.0
62.5°	493.4	465.0	447.5	434.6	426.0	424.8	419.6
65°	414.6	393.0	377.4	371.3	362.3	359.9	359.9
67.5°	341.9	326.4	314.1	308.6	304.7	305.2	302.4
70°	296.1	283.5	275.6	269.7	266.6	267.2	264.8
72.5°	259.0	245.0	238.1	234.5	230.5	232.1	231.1
75°	196.2	189.0	185.4	181.7	179.3	178.2	176.9
77.5°	144.1	137.7	134.9	132.9	133.2	130.4	132.7
80°	111.4	105.9	104.2	101.1	100.5	100.5	99.9
82.5°	81.5	78.5	77.1	74.6	73.6	74.5	72.9
85°	42.1	39.7	39.1	39.1	37.9	36.7	39.7
87.5°	20.6	19.0	19.3	18.9	19.1	18.8	18.0
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)