

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: P333088-830

Luminaire Tested: **S124RDIW-S1020D1340U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333088-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1020D1340U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8477.7 lumens
Efficiency: N/A
Efficacy: 121.5 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: General Diffuse

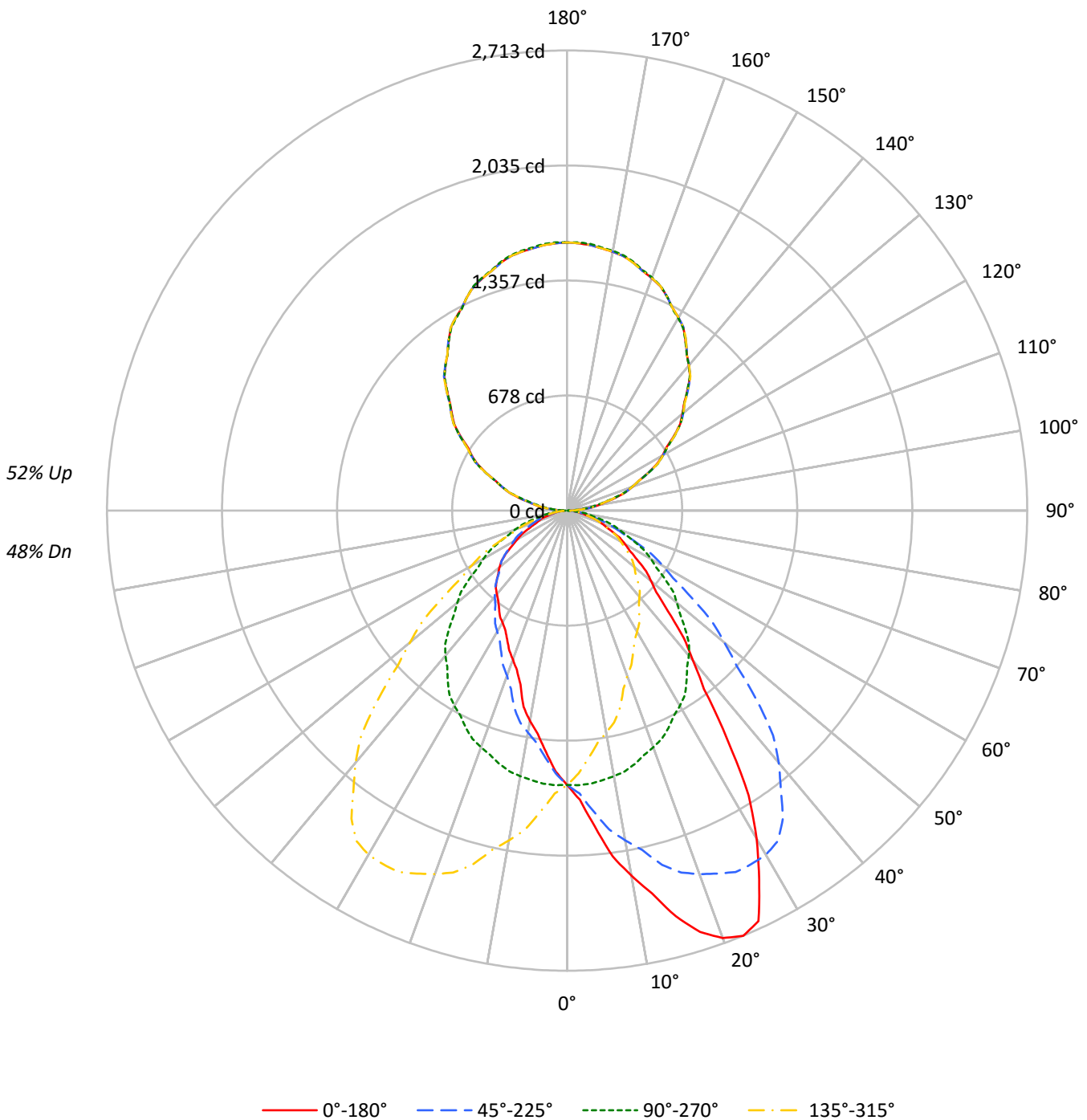
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48						48		
1	98	94	90	87	90	86	83	80	73	71	69	60	59	57	49	48	47	42						42		
2	89	82	76	71	82	76	71	67	64	61	57	54	51	49	44	42	40	36						36		
3	82	73	66	60	75	67	61	56	57	53	49	48	44	42	39	37	35	31						31		
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30	27						27		
5	69	58	50	44	63	54	47	41	46	40	36	39	35	31	32	29	27	23						23		
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	21						21		
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18						18		
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	17						17		
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	23	19	17	15						15		
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14						14		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13056	13056	13056	13056
5°	15144	13095	11574	13095
10°	17915	13038	10330	13038
15°	20695	12918	8877	12918
20°	23040	12752	8027	12752
25°	23785	12588	7452	12588
30°	20821	12392	7106	12392
35°	16208	12098	6897	12098
40°	12154	11763	6785	11763
45°	9597	11226	6725	11226
50°	8102	10605	6531	10605
55°	7061	9923	6180	9923
60°	6353	9216	5470	9216
65°	5601	8451	4705	8451
70°	5044	7659	4244	7659
75°	4226	6787	3618	6787
80°	3575	5783	3394	5783
85°	3020	4520	3020	4520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	1.8
10°-20°	472.7	5.6
20°-30°	739.3	8.7
30°-40°	821.9	9.7
40°-50°	729.2	8.6
50°-60°	568.2	6.7
60°-70°	372.0	4.4
70°-80°	182.9	2.2
80°-90°	49.9	0.6
90°-100°	104.3	1.2
100°-110°	308.8	3.6
110°-120°	524.1	6.2
120°-130°	691.1	8.2
130°-140°	776.2	9.2
140°-150°	762.7	9.0
150°-160°	641.5	7.6
160°-170°	426.8	5.0
170°-180°	149.5	1.8
0°-30°	1368.7	16.1
0°-40°	2190.5	25.8
0°-60°	3487.9	41.1
0°-90°	4092.7	48.3
90°-120°	937.2	11.1
90°-150°	3167.3	37.4
90°-180°	4385.0	51.7
0°-180°	8477.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1617	1617	1617	1617	1617	
5°	1869	1616	1428	1616	1869	189
15°	2476	1546	1062	1546	2476	704
25°	2670	1413	837	1413	2670	1185
35°	1645	1228	700	1228	1645	1031
45°	841	983	589	983	841	666
55°	502	705	439	705	502	456
65°	293	442	246	442	293	295
75°	136	218	116	218	136	149
85°	33	49	33	49	33	38
90°	37	4	37	4	37	20
95°	97	73	97	73	97	101
105°	298	285	298	285	298	314
115°	528	533	528	533	528	522
125°	770	776	770	776	770	687
135°	1002	1001	1002	1001	1002	774
145°	1218	1216	1218	1216	1218	762
155°	1392	1394	1392	1394	1392	641
165°	1513	1517	1513	1517	1513	426
175°	1571	1578	1571	1578	1571	149
180°	1580	1580	1580	1580	1580	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1705.8	1710.5	1705.8	1705.3	1700.2	1698.6	1696.5	1689.7	1677.2	1669.9	1671.4
5°	1868.8	1885.0	1875.9	1874.6	1860.3	1846.0	1836.8	1816.0	1793.8	1778.9	1766.4
7.5°	2057.2	2066.5	2060.9	2051.7	2028.5	2015.3	1994.2	1966.7	1927.0	1896.6	1868.9
10°	2185.4	2193.2	2190.7	2173.7	2156.7	2122.2	2102.6	2064.3	2014.0	1974.3	1937.1
12.5°	2311.6	2319.9	2297.0	2297.7	2265.7	2238.4	2207.4	2159.1	2101.1	2049.8	2003.4
15°	2476.1	2465.6	2465.6	2452.6	2416.7	2379.0	2347.0	2296.2	2223.2	2161.9	2097.4
17.5°	2604.8	2608.4	2603.1	2572.3	2544.2	2505.1	2446.6	2387.3	2319.5	2237.3	2171.3
20°	2681.9	2681.9	2676.1	2655.2	2618.8	2577.0	2513.9	2449.3	2363.3	2280.6	2206.3
22.5°	2713.2	2715.3	2708.4	2691.1	2658.3	2617.6	2563.8	2498.3	2409.7	2316.5	2224.5
25°	2670.2	2682.6	2683.9	2679.3	2669.6	2644.8	2598.5	2531.4	2451.9	2350.9	2251.8
27.5°	2451.6	2467.2	2480.9	2503.4	2533.4	2549.0	2551.1	2517.0	2447.6	2350.4	2250.7
30°	2233.6	2246.6	2289.1	2344.4	2387.4	2426.5	2460.4	2469.5	2430.4	2343.1	2238.2
32.5°	1991.8	2009.5	2051.8	2111.4	2183.0	2249.3	2325.3	2364.2	2363.1	2310.7	2213.7
35°	1644.6	1657.6	1696.8	1759.3	1845.3	1943.7	2064.3	2158.0	2221.9	2217.3	2158.0
37.5°	1326.3	1341.0	1380.5	1432.5	1515.9	1637.7	1754.4	1883.6	2001.7	2068.0	2048.1
40°	1153.3	1154.0	1192.4	1245.9	1324.0	1430.2	1557.3	1700.6	1832.2	1939.8	1960.6
42.5°	1016.7	1016.8	1042.3	1099.9	1156.2	1256.1	1377.4	1519.8	1673.8	1798.0	1853.2
45°	840.6	846.4	867.2	901.8	946.1	1030.8	1127.8	1260.2	1432.9	1580.1	1672.0
47.5°	711.8	720.4	733.7	761.9	797.1	853.6	933.9	1052.7	1193.2	1355.2	1485.9
50°	645.1	646.4	663.3	678.9	709.5	754.5	824.9	924.0	1052.9	1208.7	1354.0
52.5°	587.8	587.5	597.7	617.5	642.3	677.4	734.2	824.3	938.8	1078.4	1228.3
55°	501.7	505.0	512.8	528.4	547.3	572.1	617.1	684.9	774.8	894.0	1030.2
57.5°	436.3	438.0	444.1	450.7	468.1	486.1	519.8	566.8	642.7	740.4	867.2
60°	393.5	394.2	396.2	406.0	419.6	436.6	459.4	499.1	563.0	652.2	752.6
62.5°	351.9	353.0	356.0	363.2	373.7	385.5	409.3	441.3	494.2	570.4	660.8
65°	293.2	293.9	298.4	301.0	309.5	319.9	337.5	359.0	395.5	459.4	527.8
67.5°	245.0	245.0	245.2	248.7	254.7	261.6	272.1	289.3	316.8	356.0	416.3
70°	213.7	213.7	215.0	217.0	220.3	226.1	232.0	245.0	265.2	297.1	343.4
72.5°	184.5	185.0	186.3	186.7	188.4	193.2	197.6	205.9	220.9	245.0	282.4
75°	135.5	137.5	140.7	143.4	146.6	146.0	150.5	155.7	160.3	174.7	196.1
77.5°	100.9	99.8	100.2	102.5	102.8	103.5	106.7	110.7	114.1	120.9	128.7
80°	76.9	76.9	78.8	79.5	78.8	79.5	82.8	84.7	86.1	88.6	95.8
82.5°	58.2	59.2	58.5	59.2	59.6	60.2	63.0	63.3	64.7	65.7	68.7
85°	32.6	33.3	33.8	32.6	32.6	32.6	33.8	34.5	35.8	35.2	36.5
87.5°	18.8	18.2	18.6	18.5	18.9	18.2	18.4	19.0	17.7	17.9	17.4
90°	36.7	36.1	35.6	35.1	34.5	33.4	31.8	30.2	28.6	26.9	24.7
92.5°	54.3	53.9	53.6	53.3	53.0	52.3	51.4	50.3	49.4	48.4	46.8
95°	96.6	96.6	96.6	96.6	96.6	96.1	95.4	94.5	93.7	92.9	91.0
97.5°	151.4	151.4	151.4	151.4	151.4	150.8	149.9	148.9	147.9	146.9	144.7
100°	189.5	189.5	189.5	189.5	189.5	189.2	188.7	188.1	187.6	187.0	184.5
102.5°	232.5	232.2	232.1	231.9	231.6	231.1	230.4	229.6	228.8	228.1	225.8
105°	298.2	297.5	296.6	295.8	295.0	294.2	293.4	292.6	291.7	291.0	289.8
107.5°	362.3	362.4	362.4	362.5	362.5	362.2	361.4	360.6	359.9	359.1	359.0
110°	408.3	407.5	406.6	405.9	405.0	404.9	405.4	406.0	406.5	407.1	407.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	455.2	455.1	454.9	454.7	454.6	454.5	454.7	454.8	454.9	455.0	455.4
115°	528.1	528.3	528.6	528.9	529.1	529.4	529.7	530.0	530.3	530.5	531.0
117.5°	597.5	598.0	598.6	599.1	599.6	600.4	601.3	602.3	603.1	604.1	604.5
120°	650.3	649.8	649.2	648.7	648.1	648.6	649.9	651.3	652.6	653.9	654.8
122.5°	694.3	695.3	696.3	697.2	698.2	699.2	700.1	701.0	701.9	702.9	703.2
125°	770.1	770.6	771.2	771.8	772.2	772.8	773.4	773.9	774.4	775.0	775.2
127.5°	840.3	840.7	841.1	841.6	842.0	842.4	843.0	843.6	844.1	844.6	845.1
130°	886.2	887.3	888.3	889.5	890.6	891.4	891.9	892.5	893.0	893.5	893.5
132.5°	935.1	935.6	935.9	936.4	936.9	937.4	937.9	938.4	939.0	939.5	939.7
135°	1002.3	1003.1	1004.0	1004.8	1005.6	1006.3	1006.8	1007.4	1008.0	1008.4	1008.4
137.5°	1073.0	1072.8	1072.7	1072.5	1072.3	1072.6	1073.4	1074.0	1074.7	1075.4	1075.0
140°	1116.1	1116.3	1116.5	1116.8	1117.1	1117.4	1117.7	1117.9	1118.2	1118.4	1118.4
142.5°	1159.0	1159.1	1159.1	1159.2	1159.2	1159.3	1159.4	1159.4	1159.5	1159.5	1159.8
145°	1217.5	1218.3	1219.1	1219.9	1220.8	1221.3	1221.5	1221.8	1222.1	1222.4	1222.1
147.5°	1276.7	1277.0	1277.1	1277.4	1277.7	1278.0	1278.2	1278.4	1278.7	1278.8	1279.0
150°	1312.9	1313.1	1313.3	1313.6	1313.9	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
152.5°	1346.0	1346.8	1347.5	1348.2	1348.9	1349.0	1348.3	1347.6	1347.0	1346.3	1346.1
155°	1392.3	1393.4	1394.5	1395.5	1396.7	1396.7	1395.5	1394.5	1393.4	1392.3	1392.5
157.5°	1433.6	1434.5	1435.4	1436.3	1437.3	1437.4	1436.5	1435.7	1434.9	1434.1	1434.2
160°	1457.1	1458.4	1459.8	1461.1	1462.4	1462.7	1462.0	1461.1	1460.3	1459.5	1459.8
162.5°	1481.5	1482.9	1484.2	1485.5	1487.0	1486.9	1485.4	1483.9	1482.5	1481.0	1481.3
165°	1513.3	1514.4	1515.4	1516.6	1517.7	1517.4	1515.7	1514.1	1512.5	1510.8	1511.4
167.5°	1536.1	1537.8	1539.4	1541.1	1542.8	1542.8	1541.2	1539.5	1537.9	1536.3	1536.3
170°	1548.8	1550.7	1552.6	1554.4	1556.3	1556.5	1554.8	1553.2	1551.6	1549.9	1549.7
172.5°	1559.5	1561.4	1563.3	1565.2	1567.1	1567.2	1565.3	1563.4	1561.6	1559.7	1559.7
175°	1570.7	1572.6	1574.5	1576.4	1578.4	1578.4	1576.4	1574.5	1572.6	1570.7	1571.0
177.5°	1576.6	1578.4	1580.1	1581.9	1583.6	1583.7	1582.2	1580.6	1579.1	1577.6	1577.6
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1666.2	1659.0	1655.3	1646.9	1637.0	1631.8	1627.1	1620.3	1611.5	1602.1	1595.3
5°	1750.8	1735.1	1715.6	1692.1	1671.3	1651.1	1633.5	1615.9	1595.7	1574.9	1554.1
7.5°	1837.6	1806.9	1773.6	1735.1	1697.8	1663.8	1632.5	1602.5	1568.6	1538.2	1510.6
10°	1898.1	1856.3	1810.1	1761.2	1712.3	1670.0	1628.3	1590.5	1548.8	1511.6	1480.4
12.5°	1947.1	1898.1	1842.4	1781.6	1722.8	1671.6	1623.6	1574.3	1526.9	1486.7	1444.9
15°	2028.4	1961.2	1886.3	1813.4	1737.1	1667.4	1602.9	1545.6	1491.5	1434.8	1395.1
17.5°	2084.2	2004.7	1913.5	1825.9	1735.8	1653.6	1579.1	1510.9	1448.5	1390.6	1343.3
20°	2117.6	2029.7	1928.7	1829.0	1728.0	1640.0	1559.9	1484.3	1419.8	1357.3	1308.3
22.5°	2136.4	2039.1	1928.7	1824.3	1719.7	1624.4	1536.4	1457.7	1387.5	1324.9	1270.8
25°	2142.4	2038.2	1925.4	1805.5	1690.8	1589.9	1498.6	1413.2	1335.1	1272.5	1215.2
27.5°	2134.1	2011.3	1895.8	1772.8	1654.5	1548.0	1452.3	1362.6	1284.3	1217.2	1158.4
30°	2121.6	1989.9	1866.1	1738.4	1618.5	1516.3	1415.2	1329.3	1247.7	1178.1	1118.8
32.5°	2094.4	1963.9	1830.7	1699.9	1578.4	1473.0	1377.1	1290.6	1210.8	1139.5	1076.6
35°	2040.8	1908.5	1763.9	1629.7	1510.3	1400.9	1311.0	1227.6	1151.3	1075.2	1008.6
37.5°	1970.0	1834.8	1691.0	1544.0	1424.7	1321.3	1238.8	1160.5	1086.1	1016.4	942.8
40°	1903.3	1780.1	1631.5	1485.6	1363.1	1263.4	1187.2	1116.2	1041.2	972.1	898.5
42.5°	1822.5	1717.6	1567.4	1421.0	1300.0	1204.0	1132.9	1063.5	995.3	928.4	851.6
45°	1687.6	1608.1	1467.4	1326.6	1204.8	1109.7	1044.5	983.3	923.3	859.4	787.1
47.5°	1533.0	1479.2	1357.7	1213.6	1100.9	1015.3	952.3	902.3	851.6	787.8	724.3
50°	1425.7	1391.1	1273.8	1142.3	1034.7	955.8	891.4	844.4	802.1	740.8	684.2
52.5°	1311.0	1292.6	1193.5	1067.7	963.8	886.6	831.4	789.2	746.3	695.5	642.4
55°	1136.3	1146.1	1062.1	953.3	855.5	790.4	740.2	705.0	668.5	625.6	584.5
57.5°	957.8	993.5	937.1	841.6	750.0	689.8	652.0	622.4	591.7	556.1	521.0
60°	850.9	880.9	849.0	765.0	684.9	628.8	593.6	570.8	540.2	507.6	480.9
62.5°	746.7	778.7	759.9	692.0	617.6	569.4	538.4	517.1	494.3	465.9	438.1
65°	615.8	636.6	627.5	580.6	527.8	486.7	458.1	442.4	421.6	400.8	376.0
67.5°	471.6	511.9	506.5	481.6	436.0	404.0	385.2	371.4	352.4	336.9	320.1
70°	387.7	424.8	424.1	404.0	379.2	349.2	336.2	324.5	307.6	292.6	278.9
72.5°	317.4	351.4	356.4	340.9	324.0	301.3	288.8	280.7	264.3	254.0	242.9
75°	222.2	246.9	253.4	253.4	245.6	233.9	222.8	217.6	205.9	196.8	190.3
77.5°	145.7	161.4	171.5	173.8	175.0	171.1	162.0	158.3	149.3	146.1	139.9
80°	102.9	113.4	125.1	129.0	132.2	131.0	127.1	124.4	116.0	112.7	110.1
82.5°	71.2	76.9	86.5	95.1	94.3	97.6	94.3	92.2	85.8	84.5	82.0
85°	37.1	37.8	39.1	45.0	48.3	49.5	50.1	48.8	46.9	46.9	42.3
87.5°	17.1	16.0	16.7	16.1	16.1	17.5	18.6	18.5	17.5	16.5	15.6
90°	22.5	20.4	18.2	15.6	12.6	9.6	6.7	3.7	6.7	9.6	12.6
92.5°	45.3	43.8	42.3	39.9	36.4	33.0	29.6	26.2	29.6	33.0	36.4
95°	89.1	87.2	85.3	83.1	80.7	78.2	75.8	73.3	75.8	78.2	80.7
97.5°	142.5	140.3	138.0	135.9	133.9	132.1	130.1	128.1	130.1	132.1	133.9
100°	182.1	179.6	177.2	175.5	174.4	173.3	172.2	171.2	172.2	173.3	174.4
102.5°	223.7	221.4	219.1	217.8	217.4	217.0	216.6	216.1	216.6	217.0	217.4
105°	288.8	287.7	286.5	285.9	285.6	285.4	285.1	284.8	285.1	285.4	285.6
107.5°	358.8	358.6	358.4	358.3	357.9	357.6	357.2	356.9	357.2	357.6	357.9
110°	407.6	407.8	408.1	408.0	407.5	406.9	406.3	405.9	406.3	406.9	407.5



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CATALOG NUMBER: S124RDIW-S1020D1340U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	455.9	456.5	456.9	457.1	457.0	456.9	456.8	456.7	456.8	456.9	457.0
115°	531.6	532.2	532.7	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9
117.5°	604.8	605.2	605.6	605.7	605.5	605.3	605.0	604.8	605.0	605.3	605.5
120°	655.6	656.4	657.2	657.0	656.0	654.9	653.8	652.7	653.8	654.9	656.0
122.5°	703.6	704.0	704.4	704.4	703.9	703.5	703.0	702.6	703.0	703.5	703.9
125°	775.5	775.8	776.1	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2
127.5°	845.6	845.9	846.4	846.2	845.4	844.6	843.8	842.9	843.8	844.6	845.4
130°	893.5	893.5	893.5	893.2	892.3	891.6	890.7	889.9	890.7	891.6	892.3
132.5°	939.9	940.2	940.4	940.2	939.6	939.0	938.4	937.8	938.4	939.0	939.6
135°	1008.4	1008.4	1008.4	1007.7	1006.0	1004.4	1002.8	1001.1	1002.8	1004.4	1006.0
137.5°	1074.6	1074.1	1073.7	1073.1	1072.3	1071.6	1070.8	1070.1	1070.8	1071.6	1072.3
140°	1118.4	1118.4	1118.4	1118.2	1117.7	1117.1	1116.5	1116.1	1116.5	1117.1	1117.7
142.5°	1160.0	1160.2	1160.4	1160.3	1159.7	1159.1	1158.6	1158.1	1158.6	1159.1	1159.7
145°	1221.8	1221.5	1221.3	1220.6	1219.6	1218.4	1217.4	1216.3	1217.4	1218.4	1219.6
147.5°	1279.3	1279.5	1279.7	1279.1	1277.9	1276.6	1275.3	1273.9	1275.3	1276.6	1277.9
150°	1314.0	1314.0	1314.0	1313.5	1312.4	1311.4	1310.2	1309.2	1310.2	1311.4	1312.4
152.5°	1345.9	1345.7	1345.5	1345.0	1344.3	1343.7	1343.0	1342.4	1343.0	1343.7	1344.3
155°	1392.8	1393.1	1393.4	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5
157.5°	1434.2	1434.3	1434.3	1434.5	1435.0	1435.6	1436.1	1436.5	1436.1	1435.6	1435.0
160°	1460.1	1460.3	1460.6	1460.8	1461.1	1461.4	1461.7	1462.0	1461.7	1461.4	1461.1
162.5°	1481.6	1481.9	1482.1	1482.6	1483.3	1484.0	1484.7	1485.4	1484.7	1484.0	1483.3
165°	1511.9	1512.5	1513.1	1513.7	1514.5	1515.3	1516.2	1516.9	1516.2	1515.3	1514.5
167.5°	1536.2	1536.2	1536.1	1536.6	1537.8	1538.9	1540.0	1541.2	1540.0	1538.9	1537.8
170°	1549.4	1549.2	1548.9	1549.4	1550.8	1552.2	1553.5	1554.8	1553.5	1552.2	1550.8
172.5°	1559.6	1559.6	1559.5	1560.1	1561.2	1562.4	1563.5	1564.6	1563.5	1562.4	1561.2
175°	1571.3	1571.6	1571.8	1572.6	1574.0	1575.4	1576.7	1578.1	1576.7	1575.4	1574.0
177.5°	1577.6	1577.6	1577.6	1578.1	1579.2	1580.3	1581.4	1582.4	1581.4	1580.3	1579.2
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1588.0	1582.8	1576.0	1568.2	1558.9	1550.5	1546.9	1550.0	1551.5	1547.4	1546.9
5°	1539.7	1523.4	1510.3	1490.8	1475.2	1462.2	1453.0	1449.2	1450.4	1440.0	1437.4
7.5°	1485.4	1466.0	1444.7	1421.4	1399.9	1380.7	1370.6	1365.2	1354.2	1349.4	1341.5
10°	1450.4	1424.4	1403.5	1376.1	1351.4	1328.6	1317.5	1308.3	1297.3	1292.1	1281.0
12.5°	1414.5	1384.2	1361.3	1332.8	1307.6	1280.1	1269.5	1252.6	1235.3	1224.4	1210.1
15°	1363.8	1327.3	1299.3	1265.4	1235.4	1204.1	1176.1	1144.8	1133.1	1108.3	1094.0
17.5°	1304.5	1267.4	1232.8	1187.3	1141.0	1102.2	1072.3	1042.4	1024.4	1008.6	1001.4
20°	1265.4	1231.5	1183.3	1130.5	1079.0	1036.0	1011.9	992.4	972.8	961.8	953.9
22.5°	1228.3	1185.1	1129.1	1072.1	1020.7	987.0	966.6	946.5	930.6	920.0	909.6
25°	1166.3	1109.7	1050.4	985.2	950.0	920.7	898.5	882.2	872.5	858.8	853.6
27.5°	1102.6	1034.0	968.6	924.7	888.1	861.3	842.0	829.7	817.4	808.6	801.8
30°	1053.6	983.9	925.3	883.5	846.4	824.3	808.6	794.3	784.5	777.3	772.1
32.5°	1005.1	935.4	886.2	841.3	812.0	790.4	773.7	763.0	755.4	746.0	742.9
35°	935.0	873.1	830.1	789.8	759.8	740.2	727.2	716.0	709.5	707.0	705.0
37.5°	867.6	817.0	770.7	737.6	710.9	695.5	680.1	674.7	670.2	665.5	667.6
40°	824.9	777.3	736.3	701.1	679.6	662.7	653.6	647.1	643.1	643.1	643.1
42.5°	787.9	741.4	701.3	669.9	648.3	634.0	623.9	618.3	617.1	616.5	619.6
45°	730.5	687.4	647.1	620.9	602.8	588.3	582.5	578.0	578.0	580.6	581.2
47.5°	673.4	633.2	600.8	571.6	554.9	545.9	540.8	538.5	538.8	541.3	544.3
50°	638.6	598.8	566.8	540.8	525.2	516.7	512.2	510.9	512.2	512.2	516.7
52.5°	600.5	565.0	533.5	511.6	493.9	486.0	483.4	481.6	482.4	484.6	486.4
55°	544.7	512.8	482.9	461.9	448.9	443.7	437.9	438.5	437.2	438.5	438.5
57.5°	488.8	460.1	432.3	415.8	404.3	396.7	390.3	392.1	390.2	389.9	388.9
60°	452.9	421.6	399.4	384.5	371.4	364.9	359.0	360.3	358.4	357.0	354.5
62.5°	413.8	387.7	366.6	352.1	341.7	334.1	328.3	327.0	322.4	318.0	312.3
65°	357.0	335.5	316.7	303.0	293.2	287.4	282.8	278.9	269.1	258.6	253.4
67.5°	302.0	286.4	268.8	257.2	249.3	241.6	232.9	226.2	217.1	211.4	208.1
70°	266.5	251.5	236.5	225.5	217.0	209.8	200.0	195.5	189.0	186.3	183.1
72.5°	232.6	218.7	204.7	194.7	185.7	180.1	172.4	167.9	164.9	163.9	160.7
75°	181.2	170.0	159.7	150.5	143.4	139.4	136.2	132.9	131.6	125.7	122.5
77.5°	132.1	124.9	118.3	111.8	106.7	104.2	97.8	94.1	91.9	89.2	88.5
80°	102.9	97.7	91.2	87.3	80.1	77.6	74.9	74.3	73.6	73.0	72.3
82.5°	77.4	72.2	65.7	63.3	61.4	59.9	58.2	57.6	56.9	57.3	57.2
85°	39.1	36.5	36.5	35.8	35.2	34.5	33.8	33.8	33.3	33.8	33.3
87.5°	16.1	16.1	16.6	16.0	17.0	17.3	17.2	17.5	18.4	17.6	17.8
90°	15.6	18.2	20.4	22.5	24.7	26.9	28.6	30.2	31.8	33.4	34.5
92.5°	39.9	42.3	43.8	45.3	46.8	48.4	49.4	50.3	51.4	52.3	53.0
95°	83.1	85.3	87.2	89.1	91.0	92.9	93.7	94.5	95.4	96.1	96.6
97.5°	135.9	138.0	140.3	142.5	144.7	146.9	147.9	148.9	149.9	150.8	151.4
100°	175.5	177.2	179.6	182.1	184.5	187.0	187.6	188.1	188.7	189.2	189.5
102.5°	217.8	219.1	221.4	223.7	225.8	228.1	228.8	229.6	230.4	231.1	231.6
105°	285.9	286.5	287.7	288.8	289.8	291.0	291.7	292.6	293.4	294.2	295.0
107.5°	358.3	358.4	358.6	358.8	359.0	359.1	359.9	360.6	361.4	362.2	362.5
110°	408.0	408.1	407.8	407.6	407.4	407.1	406.5	406.0	405.4	404.9	405.0



TEST NUMBER: P333088-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	457.1	456.9	456.5	455.9	455.4	455.0	454.9	454.8	454.7	454.5	454.6
115°	532.9	532.7	532.2	531.6	531.0	530.5	530.3	530.0	529.7	529.4	529.1
117.5°	605.7	605.6	605.2	604.8	604.5	604.1	603.1	602.3	601.3	600.4	599.6
120°	657.0	657.2	656.4	655.6	654.8	653.9	652.6	651.3	649.9	648.6	648.1
122.5°	704.4	704.4	704.0	703.6	703.2	702.9	701.9	701.0	700.1	699.2	698.2
125°	776.2	776.1	775.8	775.5	775.2	775.0	774.4	773.9	773.4	772.8	772.2
127.5°	846.2	846.4	845.9	845.6	845.1	844.6	844.1	843.6	843.0	842.4	842.0
130°	893.2	893.5	893.5	893.5	893.5	893.5	893.0	892.5	891.9	891.4	890.6
132.5°	940.2	940.4	940.2	939.9	939.7	939.5	939.0	938.4	937.9	937.4	936.9
135°	1007.7	1008.4	1008.4	1008.4	1008.4	1008.4	1008.0	1007.4	1006.8	1006.3	1005.6
137.5°	1073.1	1073.7	1074.1	1074.6	1075.0	1075.4	1074.7	1074.0	1073.4	1072.6	1072.3
140°	1118.2	1118.4	1118.4	1118.4	1118.4	1118.4	1118.2	1117.9	1117.7	1117.4	1117.1
142.5°	1160.3	1160.4	1160.2	1160.0	1159.8	1159.5	1159.5	1159.4	1159.4	1159.3	1159.2
145°	1220.6	1221.3	1221.5	1221.8	1222.1	1222.4	1222.1	1221.8	1221.5	1221.3	1220.8
147.5°	1279.1	1279.7	1279.5	1279.3	1279.0	1278.8	1278.7	1278.4	1278.2	1278.0	1277.7
150°	1313.5	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1313.9
152.5°	1345.0	1345.5	1345.7	1345.9	1346.1	1346.3	1347.0	1347.6	1348.3	1349.0	1348.9
155°	1393.5	1393.4	1393.1	1392.8	1392.5	1392.3	1393.4	1394.5	1395.5	1396.7	1396.7
157.5°	1434.5	1434.3	1434.3	1434.2	1434.2	1434.1	1434.9	1435.7	1436.5	1437.4	1437.3
160°	1460.8	1460.6	1460.3	1460.1	1459.8	1459.5	1460.3	1461.1	1462.0	1462.7	1462.4
162.5°	1482.6	1482.1	1481.9	1481.6	1481.3	1481.0	1482.5	1483.9	1485.4	1486.9	1487.0
165°	1513.7	1513.1	1512.5	1511.9	1511.4	1510.8	1512.5	1514.1	1515.7	1517.4	1517.7
167.5°	1536.6	1536.1	1536.2	1536.2	1536.3	1536.3	1537.9	1539.5	1541.2	1542.8	1542.8
170°	1549.4	1548.9	1549.2	1549.4	1549.7	1549.9	1551.6	1553.2	1554.8	1556.5	1556.3
172.5°	1560.1	1559.5	1559.6	1559.6	1559.7	1559.7	1561.6	1563.4	1565.3	1567.2	1567.1
175°	1572.6	1571.8	1571.6	1571.3	1571.0	1570.7	1572.6	1574.5	1576.4	1578.4	1578.4
177.5°	1578.1	1577.6	1577.6	1577.6	1577.6	1577.6	1579.1	1580.6	1582.2	1583.7	1583.6
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



TEST NUMBER: P333088-830

CATALOG NUMBER: S124RDIW-S1020D1340U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1543.7	1544.7	1541.2	1540.1	1541.2	1544.7	1543.7	1546.9	1547.4	1551.5	1550.0
5°	1432.2	1430.9	1427.6	1428.2	1427.6	1430.9	1432.2	1437.4	1440.0	1450.4	1449.2
7.5°	1336.8	1331.7	1333.1	1327.9	1333.1	1331.7	1336.8	1341.5	1349.4	1354.2	1365.2
10°	1278.4	1271.2	1265.4	1260.2	1265.4	1271.2	1278.4	1281.0	1292.1	1297.3	1308.3
12.5°	1198.6	1192.5	1184.6	1186.2	1184.6	1192.5	1198.6	1210.1	1224.4	1235.3	1252.6
15°	1085.5	1075.7	1060.2	1062.1	1060.2	1075.7	1085.5	1094.0	1108.3	1133.1	1144.8
17.5°	989.8	989.9	982.7	984.4	982.7	989.9	989.8	1001.4	1008.6	1024.4	1042.4
20°	940.3	935.7	936.3	934.3	936.3	935.7	940.3	953.9	961.8	972.8	992.4
22.5°	905.9	900.2	895.7	891.6	895.7	900.2	905.9	909.6	920.0	930.6	946.5
25°	847.7	843.8	837.9	836.6	837.9	843.8	847.7	853.6	858.8	872.5	882.2
27.5°	796.6	795.9	793.5	790.5	793.5	795.9	796.6	801.8	808.6	817.4	829.7
30°	766.9	765.6	764.3	762.3	764.3	765.6	766.9	772.1	777.3	784.5	794.3
32.5°	740.4	739.5	738.2	738.4	738.2	739.5	740.4	742.9	746.0	755.4	763.0
35°	702.4	701.7	700.5	699.8	700.5	701.7	702.4	705.0	707.0	709.5	716.0
37.5°	666.9	668.6	667.9	667.7	667.9	668.6	666.9	667.6	665.5	670.2	674.7
40°	642.4	643.1	644.4	643.8	644.4	643.1	642.4	643.1	643.1	643.1	647.1
42.5°	622.2	622.3	624.1	621.9	624.1	622.3	622.2	619.6	616.5	617.1	618.3
45°	585.8	589.7	589.0	589.0	589.0	589.7	585.8	581.2	580.6	578.0	578.0
47.5°	546.0	549.4	550.4	550.2	550.4	549.4	546.0	544.3	541.3	538.8	538.5
50°	520.0	518.7	520.7	520.0	520.7	518.7	520.0	516.7	512.2	512.2	510.9
52.5°	488.1	488.4	488.3	487.7	488.3	488.4	488.1	486.4	484.6	482.4	481.6
55°	439.1	439.8	438.5	439.1	438.5	439.8	439.1	438.5	438.5	437.2	438.5
57.5°	386.0	382.9	384.2	382.6	384.2	382.9	386.0	388.9	389.9	390.2	392.1
60°	348.0	342.7	341.4	338.8	341.4	342.7	348.0	354.5	357.0	358.4	360.3
62.5°	305.2	301.5	297.1	299.2	297.1	301.5	305.2	312.3	318.0	322.4	327.0
65°	248.3	245.6	243.6	246.3	243.6	245.6	248.3	253.4	258.6	269.1	278.9
67.5°	205.5	204.1	204.1	202.7	204.1	204.1	205.5	208.1	211.4	217.1	226.2
70°	183.1	181.2	181.2	179.8	181.2	181.2	183.1	183.1	186.3	189.0	195.5
72.5°	160.1	158.2	158.7	158.0	158.7	158.2	160.1	160.7	163.9	164.9	167.9
75°	118.6	115.4	115.4	116.0	115.4	115.4	118.6	122.5	125.7	131.6	132.9
77.5°	88.5	87.8	88.8	87.6	88.8	87.8	88.5	88.5	89.2	91.9	94.1
80°	72.3	71.6	71.1	73.0	71.1	71.6	72.3	72.3	73.0	73.6	74.3
82.5°	56.2	56.1	55.9	58.3	55.9	56.1	56.2	57.2	57.3	56.9	57.6
85°	33.8	32.6	33.8	32.6	33.8	32.6	33.8	33.3	33.8	33.3	33.8
87.5°	19.0	18.6	18.2	18.8	18.2	18.6	19.0	17.8	17.6	18.4	17.5
90°	35.1	35.6	36.1	36.7	36.1	35.6	35.1	34.5	33.4	31.8	30.2
92.5°	53.3	53.6	53.9	54.3	53.9	53.6	53.3	53.0	52.3	51.4	50.3
95°	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.1	95.4	94.5
97.5°	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4	150.8	149.9	148.9
100°	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.2	188.7	188.1
102.5°	231.9	232.1	232.2	232.5	232.2	232.1	231.9	231.6	231.1	230.4	229.6
105°	295.8	296.6	297.5	298.2	297.5	296.6	295.8	295.0	294.2	293.4	292.6
107.5°	362.5	362.4	362.4	362.3	362.4	362.4	362.5	362.5	362.2	361.4	360.6
110°	405.9	406.6	407.5	408.3	407.5	406.6	405.9	405.0	404.9	405.4	406.0



TEST NUMBER: P333088-830

CATALOG NUMBER: S124RDIW-S1020D1340U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	454.7	454.9	455.1	455.2	455.1	454.9	454.7	454.6	454.5	454.7	454.8
115°	528.9	528.6	528.3	528.1	528.3	528.6	528.9	529.1	529.4	529.7	530.0
117.5°	599.1	598.6	598.0	597.5	598.0	598.6	599.1	599.6	600.4	601.3	602.3
120°	648.7	649.2	649.8	650.3	649.8	649.2	648.7	648.1	648.6	649.9	651.3
122.5°	697.2	696.3	695.3	694.3	695.3	696.3	697.2	698.2	699.2	700.1	701.0
125°	771.8	771.2	770.6	770.1	770.6	771.2	771.8	772.2	772.8	773.4	773.9
127.5°	841.6	841.1	840.7	840.3	840.7	841.1	841.6	842.0	842.4	843.0	843.6
130°	889.5	888.3	887.3	886.2	887.3	888.3	889.5	890.6	891.4	891.9	892.5
132.5°	936.4	935.9	935.6	935.1	935.6	935.9	936.4	936.9	937.4	937.9	938.4
135°	1004.8	1004.0	1003.1	1002.3	1003.1	1004.0	1004.8	1005.6	1006.3	1006.8	1007.4
137.5°	1072.5	1072.7	1072.8	1073.0	1072.8	1072.7	1072.5	1072.3	1072.6	1073.4	1074.0
140°	1116.8	1116.5	1116.3	1116.1	1116.3	1116.5	1116.8	1117.1	1117.4	1117.7	1117.9
142.5°	1159.2	1159.1	1159.1	1159.0	1159.1	1159.1	1159.2	1159.2	1159.3	1159.4	1159.4
145°	1219.9	1219.1	1218.3	1217.5	1218.3	1219.1	1219.9	1220.8	1221.3	1221.5	1221.8
147.5°	1277.4	1277.1	1277.0	1276.7	1277.0	1277.1	1277.4	1277.7	1278.0	1278.2	1278.4
150°	1313.6	1313.3	1313.1	1312.9	1313.1	1313.3	1313.6	1313.9	1314.0	1314.0	1314.0
152.5°	1348.2	1347.5	1346.8	1346.0	1346.8	1347.5	1348.2	1348.9	1349.0	1348.3	1347.6
155°	1395.5	1394.5	1393.4	1392.3	1393.4	1394.5	1395.5	1396.7	1396.7	1395.5	1394.5
157.5°	1436.3	1435.4	1434.5	1433.6	1434.5	1435.4	1436.3	1437.3	1437.4	1436.5	1435.7
160°	1461.1	1459.8	1458.4	1457.1	1458.4	1459.8	1461.1	1462.4	1462.7	1462.0	1461.1
162.5°	1485.5	1484.2	1482.9	1481.5	1482.9	1484.2	1485.5	1487.0	1486.9	1485.4	1483.9
165°	1516.6	1515.4	1514.4	1513.3	1514.4	1515.4	1516.6	1517.7	1517.4	1515.7	1514.1
167.5°	1541.1	1539.4	1537.8	1536.1	1537.8	1539.4	1541.1	1542.8	1542.8	1541.2	1539.5
170°	1554.4	1552.6	1550.7	1548.8	1550.7	1552.6	1554.4	1556.3	1556.5	1554.8	1553.2
172.5°	1565.2	1563.3	1561.4	1559.5	1561.4	1563.3	1565.2	1567.1	1567.2	1565.3	1563.4
175°	1576.4	1574.5	1572.6	1570.7	1572.6	1574.5	1576.4	1578.4	1578.4	1576.4	1574.5
177.5°	1581.9	1580.1	1578.4	1576.6	1578.4	1580.1	1581.9	1583.6	1583.7	1582.2	1580.6
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1546.9	1550.5	1558.9	1568.2	1576.0	1582.8	1588.0	1595.3	1602.1	1611.5	1620.3
5°	1453.0	1462.2	1475.2	1490.8	1510.3	1523.4	1539.7	1554.1	1574.9	1595.7	1615.9
7.5°	1370.6	1380.7	1399.9	1421.4	1444.7	1466.0	1485.4	1510.6	1538.2	1568.6	1602.5
10°	1317.5	1328.6	1351.4	1376.1	1403.5	1424.4	1450.4	1480.4	1511.6	1548.8	1590.5
12.5°	1269.5	1280.1	1307.6	1332.8	1361.3	1384.2	1414.5	1444.9	1486.7	1526.9	1574.3
15°	1176.1	1204.1	1235.4	1265.4	1299.3	1327.3	1363.8	1395.1	1434.8	1491.5	1545.6
17.5°	1072.3	1102.2	1141.0	1187.3	1232.8	1267.4	1304.5	1343.3	1390.6	1448.5	1510.9
20°	1011.9	1036.0	1079.0	1130.5	1183.3	1231.5	1265.4	1308.3	1357.3	1419.8	1484.3
22.5°	966.6	987.0	1020.7	1072.1	1129.1	1185.1	1228.3	1270.8	1324.9	1387.5	1457.7
25°	898.5	920.7	950.0	985.2	1050.4	1109.7	1166.3	1215.2	1272.5	1335.1	1413.2
27.5°	842.0	861.3	888.1	924.7	968.6	1034.0	1102.6	1158.4	1217.2	1284.3	1362.6
30°	808.6	824.3	846.4	883.5	925.3	983.9	1053.6	1118.8	1178.1	1247.7	1329.3
32.5°	773.7	790.4	812.0	841.3	886.2	935.4	1005.1	1076.6	1139.5	1210.8	1290.6
35°	727.2	740.2	759.8	789.8	830.1	873.1	935.0	1008.6	1075.2	1151.3	1227.6
37.5°	680.1	695.5	710.9	737.6	770.7	817.0	867.6	942.8	1016.4	1086.1	1160.5
40°	653.6	662.7	679.6	701.1	736.3	777.3	824.9	898.5	972.1	1041.2	1116.2
42.5°	623.9	634.0	648.3	669.9	701.3	741.4	787.9	851.6	928.4	995.3	1063.5
45°	582.5	588.3	602.8	620.9	647.1	687.4	730.5	787.1	859.4	923.3	983.3
47.5°	540.8	545.9	554.9	571.6	600.8	633.2	673.4	724.3	787.8	851.6	902.3
50°	512.2	516.7	525.2	540.8	566.8	598.8	638.6	684.2	740.8	802.1	844.4
52.5°	483.4	486.0	493.9	511.6	533.5	565.0	600.5	642.4	695.5	746.3	789.2
55°	437.9	443.7	448.9	461.9	482.9	512.8	544.7	584.5	625.6	668.5	705.0
57.5°	390.3	396.7	404.3	415.8	432.3	460.1	488.8	521.0	556.1	591.7	622.4
60°	359.0	364.9	371.4	384.5	399.4	421.6	452.9	480.9	507.6	540.2	570.8
62.5°	328.3	334.1	341.7	352.1	366.6	387.7	413.8	438.1	465.9	494.3	517.1
65°	282.8	287.4	293.2	303.0	316.7	335.5	357.0	376.0	400.8	421.6	442.4
67.5°	232.9	241.6	249.3	257.2	268.8	286.4	302.0	320.1	336.9	352.4	371.4
70°	200.0	209.8	217.0	225.5	236.5	251.5	266.5	278.9	292.6	307.6	324.5
72.5°	172.4	180.1	185.7	194.7	204.7	218.7	232.6	242.9	254.0	264.3	280.7
75°	136.2	139.4	143.4	150.5	159.7	170.0	181.2	190.3	196.8	205.9	217.6
77.5°	97.8	104.2	106.7	111.8	118.3	124.9	132.1	139.9	146.1	149.3	158.3
80°	74.9	77.6	80.1	87.3	91.2	97.7	102.9	110.1	112.7	116.0	124.4
82.5°	58.2	59.9	61.4	63.3	65.7	72.2	77.4	82.0	84.5	85.8	92.2
85°	33.8	34.5	35.2	35.8	36.5	36.5	39.1	42.3	46.9	46.9	48.8
87.5°	17.2	17.3	17.0	16.0	16.6	16.1	16.1	15.6	16.5	17.5	18.5
90°	28.6	26.9	24.7	22.5	20.4	18.2	15.6	12.6	9.6	6.7	3.7
92.5°	49.4	48.4	46.8	45.3	43.8	42.3	39.9	36.4	33.0	29.6	26.2
95°	93.7	92.9	91.0	89.1	87.2	85.3	83.1	80.7	78.2	75.8	73.3
97.5°	147.9	146.9	144.7	142.5	140.3	138.0	135.9	133.9	132.1	130.1	128.1
100°	187.6	187.0	184.5	182.1	179.6	177.2	175.5	174.4	173.3	172.2	171.2
102.5°	228.8	228.1	225.8	223.7	221.4	219.1	217.8	217.4	217.0	216.6	216.1
105°	291.7	291.0	289.8	288.8	287.7	286.5	285.9	285.6	285.4	285.1	284.8
107.5°	359.9	359.1	359.0	358.8	358.6	358.4	358.3	357.9	357.6	357.2	356.9
110°	406.5	407.1	407.4	407.6	407.8	408.1	408.0	407.5	406.9	406.3	405.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	454.9	455.0	455.4	455.9	456.5	456.9	457.1	457.0	456.9	456.8	456.7
115°	530.3	530.5	531.0	531.6	532.2	532.7	532.9	532.9	532.9	532.9	532.9
117.5°	603.1	604.1	604.5	604.8	605.2	605.6	605.7	605.5	605.3	605.0	604.8
120°	652.6	653.9	654.8	655.6	656.4	657.2	657.0	656.0	654.9	653.8	652.7
122.5°	701.9	702.9	703.2	703.6	704.0	704.4	704.4	703.9	703.5	703.0	702.6
125°	774.4	775.0	775.2	775.5	775.8	776.1	776.2	776.2	776.2	776.2	776.2
127.5°	844.1	844.6	845.1	845.6	845.9	846.4	846.2	845.4	844.6	843.8	842.9
130°	893.0	893.5	893.5	893.5	893.5	893.5	893.2	892.3	891.6	890.7	889.9
132.5°	939.0	939.5	939.7	939.9	940.2	940.4	940.2	939.6	939.0	938.4	937.8
135°	1008.0	1008.4	1008.4	1008.4	1008.4	1008.4	1007.7	1006.0	1004.4	1002.8	1001.1
137.5°	1074.7	1075.4	1075.0	1074.6	1074.1	1073.7	1073.1	1072.3	1071.6	1070.8	1070.1
140°	1118.2	1118.4	1118.4	1118.4	1118.4	1118.4	1118.2	1117.7	1117.1	1116.5	1116.1
142.5°	1159.5	1159.5	1159.8	1160.0	1160.2	1160.4	1160.3	1159.7	1159.1	1158.6	1158.1
145°	1222.1	1222.4	1222.1	1221.8	1221.5	1221.3	1220.6	1219.6	1218.4	1217.4	1216.3
147.5°	1278.7	1278.8	1279.0	1279.3	1279.5	1279.7	1279.1	1277.9	1276.6	1275.3	1273.9
150°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1313.5	1312.4	1311.4	1310.2	1309.2
152.5°	1347.0	1346.3	1346.1	1345.9	1345.7	1345.5	1345.0	1344.3	1343.7	1343.0	1342.4
155°	1393.4	1392.3	1392.5	1392.8	1393.1	1393.4	1393.5	1393.5	1393.5	1393.5	1393.5
157.5°	1434.9	1434.1	1434.2	1434.2	1434.3	1434.3	1434.5	1435.0	1435.6	1436.1	1436.5
160°	1460.3	1459.5	1459.8	1460.1	1460.3	1460.6	1460.8	1461.1	1461.4	1461.7	1462.0
162.5°	1482.5	1481.0	1481.3	1481.6	1481.9	1482.1	1482.6	1483.3	1484.0	1484.7	1485.4
165°	1512.5	1510.8	1511.4	1511.9	1512.5	1513.1	1513.7	1514.5	1515.3	1516.2	1516.9
167.5°	1537.9	1536.3	1536.3	1536.2	1536.2	1536.1	1536.6	1537.8	1538.9	1540.0	1541.2
170°	1551.6	1549.9	1549.7	1549.4	1549.2	1548.9	1549.4	1550.8	1552.2	1553.5	1554.8
172.5°	1561.6	1559.7	1559.7	1559.6	1559.6	1559.5	1560.1	1561.2	1562.4	1563.5	1564.6
175°	1572.6	1570.7	1571.0	1571.3	1571.6	1571.8	1572.6	1574.0	1575.4	1576.7	1578.1
177.5°	1579.1	1577.6	1577.6	1577.6	1577.6	1577.6	1578.1	1579.2	1580.3	1581.4	1582.4
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



TEST NUMBER: P333088-830

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1627.1	1631.8	1637.0	1646.9	1655.3	1659.0	1666.2	1671.4	1669.9	1677.2	1689.7
5°	1633.5	1651.1	1671.3	1692.1	1715.6	1735.1	1750.8	1766.4	1778.9	1793.8	1816.0
7.5°	1632.5	1663.8	1697.8	1735.1	1773.6	1806.9	1837.6	1868.9	1896.6	1927.0	1966.7
10°	1628.3	1670.0	1712.3	1761.2	1810.1	1856.3	1898.1	1937.1	1974.3	2014.0	2064.3
12.5°	1623.6	1671.6	1722.8	1781.6	1842.4	1898.1	1947.1	2003.4	2049.8	2101.1	2159.1
15°	1602.9	1667.4	1737.1	1813.4	1886.3	1961.2	2028.4	2097.4	2161.9	2223.2	2296.2
17.5°	1579.1	1653.6	1735.8	1825.9	1913.5	2004.7	2084.2	2171.3	2237.3	2319.5	2387.3
20°	1559.9	1640.0	1728.0	1829.0	1928.7	2029.7	2117.6	2206.3	2280.6	2363.3	2449.3
22.5°	1536.4	1624.4	1719.7	1824.3	1928.7	2039.1	2136.4	2224.5	2316.5	2409.7	2498.3
25°	1498.6	1589.9	1690.8	1805.5	1925.4	2038.2	2142.4	2251.8	2350.9	2451.9	2531.4
27.5°	1452.3	1548.0	1654.5	1772.8	1895.8	2011.3	2134.1	2250.7	2350.4	2447.6	2517.0
30°	1415.2	1516.3	1618.5	1738.4	1866.1	1989.9	2121.6	2238.2	2343.1	2430.4	2469.5
32.5°	1377.1	1473.0	1578.4	1699.9	1830.7	1963.9	2094.4	2213.7	2310.7	2363.1	2364.2
35°	1311.0	1400.9	1510.3	1629.7	1763.9	1908.5	2040.8	2158.0	2217.3	2221.9	2158.0
37.5°	1238.8	1321.3	1424.7	1544.0	1691.0	1834.8	1970.0	2048.1	2068.0	2001.7	1883.6
40°	1187.2	1263.4	1363.1	1485.6	1631.5	1780.1	1903.3	1960.6	1939.8	1832.2	1700.6
42.5°	1132.9	1204.0	1300.0	1421.0	1567.4	1717.6	1822.5	1853.2	1798.0	1673.8	1519.8
45°	1044.5	1109.7	1204.8	1326.6	1467.4	1608.1	1687.6	1672.0	1580.1	1432.9	1260.2
47.5°	952.3	1015.3	1100.9	1213.6	1357.7	1479.2	1533.0	1485.9	1355.2	1193.2	1052.7
50°	891.4	955.8	1034.7	1142.3	1273.8	1391.1	1425.7	1354.0	1208.7	1052.9	924.0
52.5°	831.4	886.6	963.8	1067.7	1193.5	1292.6	1311.0	1228.3	1078.4	938.8	824.3
55°	740.2	790.4	855.5	953.3	1062.1	1146.1	1136.3	1030.2	894.0	774.8	684.9
57.5°	652.0	689.8	750.0	841.6	937.1	993.5	957.8	867.2	740.4	642.7	566.8
60°	593.6	628.8	684.9	765.0	849.0	880.9	850.9	752.6	652.2	563.0	499.1
62.5°	538.4	569.4	617.6	692.0	759.9	778.7	746.7	660.8	570.4	494.2	441.3
65°	458.1	486.7	527.8	580.6	627.5	636.6	615.8	527.8	459.4	395.5	359.0
67.5°	385.2	404.0	436.0	481.6	506.5	511.9	471.6	416.3	356.0	316.8	289.3
70°	336.2	349.2	379.2	404.0	424.1	424.8	387.7	343.4	297.1	265.2	245.0
72.5°	288.8	301.3	324.0	340.9	356.4	351.4	317.4	282.4	245.0	220.9	205.9
75°	222.8	233.9	245.6	253.4	253.4	246.9	222.2	196.1	174.7	160.3	155.7
77.5°	162.0	171.1	175.0	173.8	171.5	161.4	145.7	128.7	120.9	114.1	110.7
80°	127.1	131.0	132.2	129.0	125.1	113.4	102.9	95.8	88.6	86.1	84.7
82.5°	94.3	97.6	94.3	95.1	86.5	76.9	71.2	68.7	65.7	64.7	63.3
85°	50.1	49.5	48.3	45.0	39.1	37.8	37.1	36.5	35.2	35.8	34.5
87.5°	18.6	17.5	16.1	16.1	16.7	16.0	17.1	17.4	17.9	17.7	19.0
90°	6.7	9.6	12.6	15.6	18.2	20.4	22.5	24.7	26.9	28.6	30.2
92.5°	29.6	33.0	36.4	39.9	42.3	43.8	45.3	46.8	48.4	49.4	50.3
95°	75.8	78.2	80.7	83.1	85.3	87.2	89.1	91.0	92.9	93.7	94.5
97.5°	130.1	132.1	133.9	135.9	138.0	140.3	142.5	144.7	146.9	147.9	148.9
100°	172.2	173.3	174.4	175.5	177.2	179.6	182.1	184.5	187.0	187.6	188.1
102.5°	216.6	217.0	217.4	217.8	219.1	221.4	223.7	225.8	228.1	228.8	229.6
105°	285.1	285.4	285.6	285.9	286.5	287.7	288.8	289.8	291.0	291.7	292.6
107.5°	357.2	357.6	357.9	358.3	358.4	358.6	358.8	359.0	359.1	359.9	360.6
110°	406.3	406.9	407.5	408.0	408.1	407.8	407.6	407.4	407.1	406.5	406.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	456.8	456.9	457.0	457.1	456.9	456.5	455.9	455.4	455.0	454.9	454.8
115°	532.9	532.9	532.9	532.9	532.7	532.2	531.6	531.0	530.5	530.3	530.0
117.5°	605.0	605.3	605.5	605.7	605.6	605.2	604.8	604.5	604.1	603.1	602.3
120°	653.8	654.9	656.0	657.0	657.2	656.4	655.6	654.8	653.9	652.6	651.3
122.5°	703.0	703.5	703.9	704.4	704.4	704.0	703.6	703.2	702.9	701.9	701.0
125°	776.2	776.2	776.2	776.2	776.1	775.8	775.5	775.2	775.0	774.4	773.9
127.5°	843.8	844.6	845.4	846.2	846.4	845.9	845.6	845.1	844.6	844.1	843.6
130°	890.7	891.6	892.3	893.2	893.5	893.5	893.5	893.5	893.5	893.0	892.5
132.5°	938.4	939.0	939.6	940.2	940.4	940.2	939.9	939.7	939.5	939.0	938.4
135°	1002.8	1004.4	1006.0	1007.7	1008.4	1008.4	1008.4	1008.4	1008.4	1008.0	1007.4
137.5°	1070.8	1071.6	1072.3	1073.1	1073.7	1074.1	1074.6	1075.0	1075.4	1074.7	1074.0
140°	1116.5	1117.1	1117.7	1118.2	1118.4	1118.4	1118.4	1118.4	1118.4	1118.2	1117.9
142.5°	1158.6	1159.1	1159.7	1160.3	1160.4	1160.2	1160.0	1159.8	1159.5	1159.5	1159.4
145°	1217.4	1218.4	1219.6	1220.6	1221.3	1221.5	1221.8	1222.1	1222.4	1222.1	1221.8
147.5°	1275.3	1276.6	1277.9	1279.1	1279.7	1279.5	1279.3	1279.0	1278.8	1278.7	1278.4
150°	1310.2	1311.4	1312.4	1313.5	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
152.5°	1343.0	1343.7	1344.3	1345.0	1345.5	1345.7	1345.9	1346.1	1346.3	1347.0	1347.6
155°	1393.5	1393.5	1393.5	1393.5	1393.4	1393.1	1392.8	1392.5	1392.3	1393.4	1394.5
157.5°	1436.1	1435.6	1435.0	1434.5	1434.3	1434.3	1434.2	1434.2	1434.1	1434.9	1435.7
160°	1461.7	1461.4	1461.1	1460.8	1460.6	1460.3	1460.1	1459.8	1459.5	1460.3	1461.1
162.5°	1484.7	1484.0	1483.3	1482.6	1482.1	1481.9	1481.6	1481.3	1481.0	1482.5	1483.9
165°	1516.2	1515.3	1514.5	1513.7	1513.1	1512.5	1511.9	1511.4	1510.8	1512.5	1514.1
167.5°	1540.0	1538.9	1537.8	1536.6	1536.1	1536.2	1536.2	1536.3	1536.3	1537.9	1539.5
170°	1553.5	1552.2	1550.8	1549.4	1548.9	1549.2	1549.4	1549.7	1549.9	1551.6	1553.2
172.5°	1563.5	1562.4	1561.2	1560.1	1559.5	1559.6	1559.6	1559.7	1559.7	1561.6	1563.4
175°	1576.7	1575.4	1574.0	1572.6	1571.8	1571.6	1571.3	1571.0	1570.7	1572.6	1574.5
177.5°	1581.4	1580.3	1579.2	1578.1	1577.6	1577.6	1577.6	1577.6	1577.6	1579.1	1580.6
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1696.5	1698.6	1700.2	1705.3	1705.8	1710.5	1705.8
5°	1836.8	1846.0	1860.3	1874.6	1875.9	1885.0	1868.8
7.5°	1994.2	2015.3	2028.5	2051.7	2060.9	2066.5	2057.2
10°	2102.6	2122.2	2156.7	2173.7	2190.7	2193.2	2185.4
12.5°	2207.4	2238.4	2265.7	2297.7	2297.0	2319.9	2311.6
15°	2347.0	2379.0	2416.7	2452.6	2465.6	2465.6	2476.1
17.5°	2446.6	2505.1	2544.2	2572.3	2603.1	2608.4	2604.8
20°	2513.9	2577.0	2618.8	2655.2	2676.1	2681.9	2681.9
22.5°	2563.8	2617.6	2658.3	2691.1	2708.4	2715.3	2713.2
25°	2598.5	2644.8	2669.6	2679.3	2683.9	2682.6	2670.2
27.5°	2551.1	2549.0	2533.4	2503.4	2480.9	2467.2	2451.6
30°	2460.4	2426.5	2387.4	2344.4	2289.1	2246.6	2233.6
32.5°	2325.3	2249.3	2183.0	2111.4	2051.8	2009.5	1991.8
35°	2064.3	1943.7	1845.3	1759.3	1696.8	1657.6	1644.6
37.5°	1754.4	1637.7	1515.9	1432.5	1380.5	1341.0	1326.3
40°	1557.3	1430.2	1324.0	1245.9	1192.4	1154.0	1153.3
42.5°	1377.4	1256.1	1156.2	1099.9	1042.3	1016.8	1016.7
45°	1127.8	1030.8	946.1	901.8	867.2	846.4	840.6
47.5°	933.9	853.6	797.1	761.9	733.7	720.4	711.8
50°	824.9	754.5	709.5	678.9	663.3	646.4	645.1
52.5°	734.2	677.4	642.3	617.5	597.7	587.5	587.8
55°	617.1	572.1	547.3	528.4	512.8	505.0	501.7
57.5°	519.8	486.1	468.1	450.7	444.1	438.0	436.3
60°	459.4	436.6	419.6	406.0	396.2	394.2	393.5
62.5°	409.3	385.5	373.7	363.2	356.0	353.0	351.9
65°	337.5	319.9	309.5	301.0	298.4	293.9	293.2
67.5°	272.1	261.6	254.7	248.7	245.2	245.0	245.0
70°	232.0	226.1	220.3	217.0	215.0	213.7	213.7
72.5°	197.6	193.2	188.4	186.7	186.3	185.0	184.5
75°	150.5	146.0	146.6	143.4	140.7	137.5	135.5
77.5°	106.7	103.5	102.8	102.5	100.2	99.8	100.9
80°	82.8	79.5	78.8	79.5	78.8	76.9	76.9
82.5°	63.0	60.2	59.6	59.2	58.5	59.2	58.2
85°	33.8	32.6	32.6	32.6	33.8	33.3	32.6
87.5°	18.4	18.2	18.9	18.5	18.6	18.2	18.8
90°	31.8	33.4	34.5	35.1	35.6	36.1	36.7
92.5°	51.4	52.3	53.0	53.3	53.6	53.9	54.3
95°	95.4	96.1	96.6	96.6	96.6	96.6	96.6
97.5°	149.9	150.8	151.4	151.4	151.4	151.4	151.4
100°	188.7	189.2	189.5	189.5	189.5	189.5	189.5
102.5°	230.4	231.1	231.6	231.9	232.1	232.2	232.5
105°	293.4	294.2	295.0	295.8	296.6	297.5	298.2
107.5°	361.4	362.2	362.5	362.5	362.4	362.4	362.3
110°	405.4	404.9	405.0	405.9	406.6	407.5	408.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	454.7	454.5	454.6	454.7	454.9	455.1	455.2
115°	529.7	529.4	529.1	528.9	528.6	528.3	528.1
117.5°	601.3	600.4	599.6	599.1	598.6	598.0	597.5
120°	649.9	648.6	648.1	648.7	649.2	649.8	650.3
122.5°	700.1	699.2	698.2	697.2	696.3	695.3	694.3
125°	773.4	772.8	772.2	771.8	771.2	770.6	770.1
127.5°	843.0	842.4	842.0	841.6	841.1	840.7	840.3
130°	891.9	891.4	890.6	889.5	888.3	887.3	886.2
132.5°	937.9	937.4	936.9	936.4	935.9	935.6	935.1
135°	1006.8	1006.3	1005.6	1004.8	1004.0	1003.1	1002.3
137.5°	1073.4	1072.6	1072.3	1072.5	1072.7	1072.8	1073.0
140°	1117.7	1117.4	1117.1	1116.8	1116.5	1116.3	1116.1
142.5°	1159.4	1159.3	1159.2	1159.2	1159.1	1159.1	1159.0
145°	1221.5	1221.3	1220.8	1219.9	1219.1	1218.3	1217.5
147.5°	1278.2	1278.0	1277.7	1277.4	1277.1	1277.0	1276.7
150°	1314.0	1314.0	1313.9	1313.6	1313.3	1313.1	1312.9
152.5°	1348.3	1349.0	1348.9	1348.2	1347.5	1346.8	1346.0
155°	1395.5	1396.7	1396.7	1395.5	1394.5	1393.4	1392.3
157.5°	1436.5	1437.4	1437.3	1436.3	1435.4	1434.5	1433.6
160°	1462.0	1462.7	1462.4	1461.1	1459.8	1458.4	1457.1
162.5°	1485.4	1486.9	1487.0	1485.5	1484.2	1482.9	1481.5
165°	1515.7	1517.4	1517.7	1516.6	1515.4	1514.4	1513.3
167.5°	1541.2	1542.8	1542.8	1541.1	1539.4	1537.8	1536.1
170°	1554.8	1556.5	1556.3	1554.4	1552.6	1550.7	1548.8
172.5°	1565.3	1567.2	1567.1	1565.2	1563.3	1561.4	1559.5
175°	1576.4	1578.4	1578.4	1576.4	1574.5	1572.6	1570.7
177.5°	1582.2	1583.7	1583.6	1581.9	1580.1	1578.4	1576.6
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5

(END OF REPORT)