

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: P333108

Luminaire Tested: **S124RDIW-S1195D1340U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333108
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-S1195D1340U835-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 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: 9666.5 lumens
Efficiency: N/A
Efficacy: 126.9 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

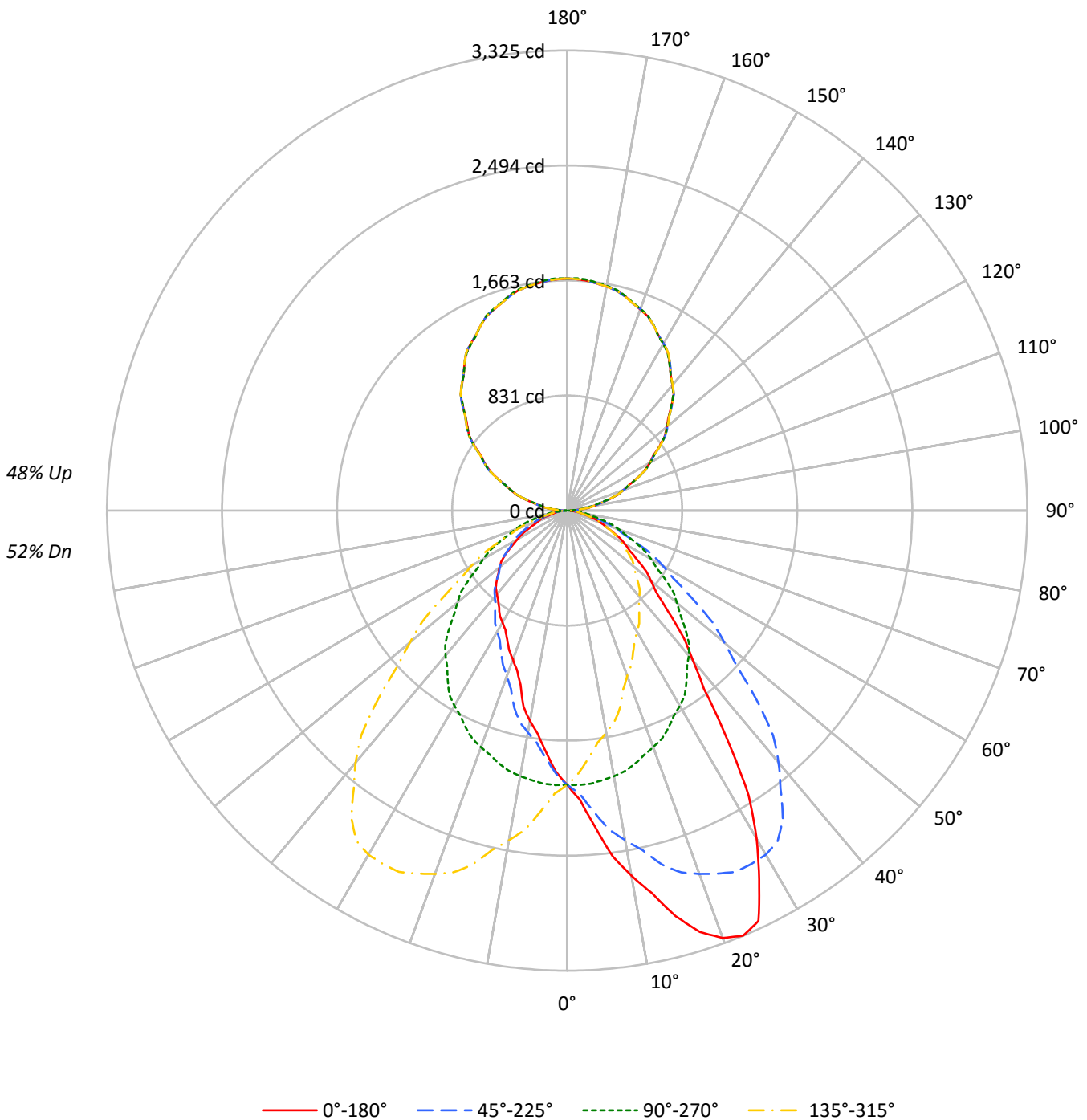
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	99	99	99	99	84	84	84	71	71	71	58	58	58	52
1	99	95	91	87	91	88	84	82	75	72	70	63	61	60	52	51	50	45
2	90	83	77	72	83	77	72	68	66	62	59	56	53	51	46	44	43	38
3	83	73	66	61	76	68	62	57	59	54	50	50	46	43	41	39	37	33
4	76	65	58	52	70	61	54	49	52	47	43	45	41	37	37	34	32	29
5	70	58	50	45	64	54	47	42	47	42	37	40	36	33	34	31	28	25
6	64	52	45	39	59	49	42	37	43	37	33	36	32	29	31	27	25	22
7	60	47	40	34	55	44	37	32	39	33	29	33	29	26	28	25	22	20
8	55	43	36	30	51	40	34	29	35	30	26	30	26	23	26	23	20	18
9	52	40	32	27	48	37	30	26	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15998	15998	15998	15998
5°	18556	16046	14182	16046
10°	21952	15976	12658	15976
15°	25357	15828	10877	15828
20°	28233	15625	9836	15625
25°	29144	15425	9132	15425
30°	25513	15183	8708	15183
35°	19860	14824	8451	14824
40°	14893	14413	8313	14413
45°	11758	13755	8241	13755
50°	9927	12995	8002	12995
55°	8653	12159	7574	12159
60°	7786	11292	6704	11292
65°	6863	10355	5765	10355
70°	6182	9385	5202	9385
75°	5181	8319	4432	8319
80°	4379	7090	4156	7090
85°	3696	5548	3696	5548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	2.0
10°-20°	579.2	6.0
20°-30°	905.9	9.4
30°-40°	1007.1	10.4
40°-50°	893.5	9.2
50°-60°	696.2	7.2
60°-70°	455.8	4.7
70°-80°	224.2	2.3
80°-90°	60.3	0.6
90°-100°	110.6	1.1
100°-110°	327.6	3.4
110°-120°	556.1	5.8
120°-130°	733.3	7.6
130°-140°	823.5	8.5
140°-150°	809.2	8.4
150°-160°	680.6	7.0
160°-170°	452.8	4.7
170°-180°	158.6	1.6
0°-30°	1677.1	17.3
0°-40°	2684.1	27.8
0°-60°	4273.8	44.2
0°-90°	5014.2	51.9
90°-120°	994.3	10.3
90°-150°	3360.3	34.8
90°-180°	4652.0	48.1
0°-180°	9666.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1982	1982	1982	1982	1982	
5°	2290	1980	1750	1980	2290	232
15°	3034	1894	1301	1894	3034	863
25°	3272	1732	1025	1732	3272	1452
35°	2015	1504	858	1504	2015	1263
45°	1030	1205	722	1205	1030	816
55°	615	864	538	864	615	559
65°	359	542	302	542	359	361
75°	166	267	142	267	166	183
85°	40	60	40	60	40	46
90°	39	4	39	4	39	22
95°	102	78	102	78	102	107
105°	316	302	316	302	316	333
115°	560	565	560	565	560	554
125°	817	824	817	824	817	729
135°	1063	1062	1063	1062	1063	821
145°	1292	1290	1292	1290	1292	808
155°	1477	1478	1477	1478	1477	680
165°	1606	1609	1606	1609	1606	452
175°	1666	1674	1666	1674	1666	158
180°	1677	1677	1677	1677	1677	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2090.2	2096.0	2090.2	2089.6	2083.2	2081.3	2078.7	2070.4	2055.1	2046.2	2048.1
5°	2289.8	2309.8	2298.6	2297.0	2279.5	2261.9	2250.7	2225.2	2198.0	2179.7	2164.5
7.5°	2520.7	2532.2	2525.2	2514.0	2485.6	2469.5	2443.6	2409.9	2361.2	2324.0	2290.0
10°	2677.9	2687.4	2684.3	2663.5	2642.7	2600.4	2576.5	2529.4	2467.9	2419.2	2373.7
12.5°	2832.4	2842.7	2814.6	2815.5	2776.2	2742.9	2704.9	2645.6	2574.6	2511.8	2454.8
15°	3034.0	3021.2	3021.2	3005.2	2961.3	2915.0	2875.9	2813.6	2724.2	2649.1	2570.1
17.5°	3191.7	3196.2	3189.6	3152.0	3117.5	3069.6	2997.9	2925.2	2842.2	2741.4	2660.6
20°	3286.3	3286.3	3279.1	3253.5	3208.8	3157.7	3080.3	3001.2	2895.8	2794.4	2703.4
22.5°	3324.6	3327.1	3318.7	3297.6	3257.4	3207.5	3141.6	3061.3	2952.7	2838.5	2725.8
25°	3271.9	3287.1	3288.6	3283.1	3271.1	3240.7	3184.1	3101.8	3004.4	2880.7	2759.3
27.5°	3003.9	3023.1	3039.9	3067.5	3104.2	3123.4	3125.9	3084.1	2999.1	2880.0	2757.9
30°	2736.9	2752.9	2804.8	2872.7	2925.4	2973.3	3014.8	3026.0	2978.1	2871.1	2742.5
32.5°	2440.6	2462.3	2514.2	2587.2	2675.0	2756.1	2849.4	2896.9	2895.7	2831.5	2712.5
35°	2015.2	2031.2	2079.1	2155.7	2261.1	2381.7	2529.4	2644.3	2722.6	2717.0	2644.3
37.5°	1625.2	1643.3	1691.7	1755.2	1857.4	2006.7	2149.6	2308.0	2452.7	2534.0	2509.7
40°	1413.2	1414.0	1461.1	1526.6	1622.4	1752.5	1908.2	2083.8	2245.1	2376.9	2402.4
42.5°	1245.8	1246.0	1277.1	1347.7	1416.7	1539.2	1687.8	1862.2	2051.0	2203.1	2270.8
45°	1029.9	1037.1	1062.7	1105.0	1159.3	1263.1	1382.0	1544.1	1755.7	1936.1	2048.7
47.5°	872.2	882.7	899.0	933.5	976.8	1045.9	1144.3	1289.9	1462.0	1660.5	1820.7
50°	790.4	792.0	812.8	831.9	869.5	924.6	1010.8	1132.1	1290.2	1481.0	1659.1
52.5°	720.2	719.8	732.3	756.6	787.1	830.0	899.6	1010.1	1150.3	1321.4	1505.2
55°	614.8	618.8	628.3	647.5	670.7	701.0	756.1	839.1	949.3	1095.4	1262.3
57.5°	534.6	536.7	544.2	552.3	573.6	595.6	637.0	694.6	787.6	907.2	1062.7
60°	482.2	483.0	485.4	497.4	514.2	534.9	562.9	611.6	689.8	799.2	922.2
62.5°	431.1	432.6	436.3	445.0	458.0	472.3	501.6	540.7	605.5	698.9	809.7
65°	359.3	360.1	365.7	368.9	379.2	392.0	413.6	439.9	484.6	562.9	646.7
67.5°	300.2	300.2	300.5	304.8	312.0	320.5	333.4	354.5	388.2	436.3	510.2
70°	261.9	261.9	263.5	265.9	269.9	277.0	284.2	300.2	325.0	364.1	420.8
72.5°	226.1	226.7	228.3	228.8	230.9	236.8	242.1	252.3	270.7	300.2	346.0
75°	166.1	168.5	172.5	175.7	179.6	178.8	184.4	190.8	196.4	214.0	240.3
77.5°	123.6	122.3	122.8	125.5	126.0	126.8	130.8	135.7	139.9	148.2	157.6
80°	94.2	94.2	96.6	97.4	96.6	97.4	101.4	103.8	105.4	108.6	117.4
82.5°	71.2	72.5	71.7	72.5	73.0	73.8	77.1	77.6	79.2	80.5	84.2
85°	39.9	40.7	41.5	39.9	39.9	39.9	41.5	42.3	43.9	43.1	44.7
87.5°	21.8	21.1	21.6	21.5	22.0	21.1	21.4	22.4	20.7	21.0	20.6
90°	38.9	38.3	37.8	37.2	36.6	35.4	33.7	32.0	30.3	28.5	26.2
92.5°	57.6	57.2	56.9	56.5	56.2	55.5	54.5	53.4	52.4	51.4	49.7
95°	102.5	102.5	102.5	102.5	102.5	102.0	101.2	100.3	99.4	98.6	96.5
97.5°	160.6	160.6	160.6	160.6	160.6	160.0	159.0	158.0	156.9	155.9	153.5
100°	201.0	201.0	201.0	201.0	201.0	200.7	200.2	199.6	199.0	198.4	195.8
102.5°	246.7	246.4	246.2	246.0	245.7	245.2	244.4	243.6	242.8	242.0	239.6
105°	316.4	315.6	314.7	313.8	313.0	312.1	311.3	310.4	309.5	308.7	307.5
107.5°	384.4	384.5	384.5	384.6	384.6	384.3	383.4	382.6	381.8	381.0	380.9
110°	433.2	432.3	431.4	430.6	429.7	429.6	430.1	430.7	431.3	431.9	432.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	483.0	482.8	482.6	482.4	482.3	482.2	482.4	482.5	482.6	482.7	483.2
115°	560.3	560.5	560.8	561.1	561.4	561.7	562.0	562.3	562.6	562.8	563.4
117.5°	633.9	634.5	635.1	635.6	636.2	637.0	638.0	639.0	639.9	640.9	641.3
120°	689.9	689.4	688.8	688.2	687.6	688.1	689.5	691.0	692.4	693.8	694.7
122.5°	736.6	737.7	738.7	739.7	740.8	741.8	742.8	743.7	744.7	745.7	746.1
125°	817.0	817.6	818.2	818.8	819.3	819.9	820.5	821.1	821.6	822.2	822.5
127.5°	891.5	891.9	892.4	892.9	893.3	893.8	894.4	895.0	895.6	896.1	896.6
130°	940.2	941.4	942.5	943.7	944.9	945.7	946.3	946.9	947.4	948.0	948.0
132.5°	992.1	992.6	993.0	993.5	994.0	994.5	995.1	995.6	996.2	996.8	997.0
135°	1063.4	1064.3	1065.2	1066.0	1066.9	1067.6	1068.2	1068.8	1069.4	1069.9	1069.9
137.5°	1138.4	1138.2	1138.1	1137.9	1137.7	1138.0	1138.8	1139.5	1140.2	1141.0	1140.5
140°	1184.1	1184.3	1184.6	1184.9	1185.2	1185.5	1185.8	1186.1	1186.4	1186.6	1186.6
142.5°	1229.7	1229.8	1229.8	1229.9	1229.9	1230.0	1230.1	1230.1	1230.2	1230.2	1230.5
145°	1291.7	1292.6	1293.4	1294.3	1295.2	1295.7	1296.0	1296.3	1296.6	1296.9	1296.6
147.5°	1354.5	1354.8	1355.0	1355.3	1355.6	1355.9	1356.1	1356.3	1356.6	1356.8	1357.0
150°	1392.9	1393.1	1393.4	1393.7	1394.0	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1
152.5°	1428.1	1428.9	1429.6	1430.4	1431.1	1431.2	1430.5	1429.8	1429.1	1428.4	1428.2
155°	1477.2	1478.3	1479.5	1480.6	1481.8	1481.8	1480.6	1479.5	1478.3	1477.2	1477.4
157.5°	1521.0	1522.0	1522.9	1523.9	1524.9	1525.0	1524.1	1523.2	1522.4	1521.5	1521.6
160°	1545.9	1547.3	1548.8	1550.2	1551.6	1551.9	1551.1	1550.2	1549.3	1548.5	1548.8
162.5°	1571.8	1573.3	1574.7	1576.1	1577.6	1577.5	1576.0	1574.4	1572.9	1571.3	1571.6
165°	1605.5	1606.7	1607.8	1609.0	1610.2	1609.9	1608.1	1606.4	1604.7	1602.9	1603.5
167.5°	1629.7	1631.5	1633.2	1635.0	1636.8	1636.8	1635.1	1633.4	1631.7	1629.9	1629.9
170°	1643.2	1645.2	1647.2	1649.2	1651.2	1651.4	1649.6	1647.9	1646.2	1644.4	1644.2
172.5°	1654.6	1656.6	1658.6	1660.6	1662.6	1662.7	1660.7	1658.7	1656.8	1654.8	1654.8
175°	1666.5	1668.5	1670.5	1672.5	1674.6	1674.6	1672.5	1670.5	1668.5	1666.5	1666.8
177.5°	1672.7	1674.6	1676.4	1678.3	1680.1	1680.2	1678.6	1677.0	1675.4	1673.8	1673.8
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2041.7	2032.8	2028.3	2018.1	2005.9	1999.5	1993.8	1985.5	1974.6	1963.1	1954.8
5°	2145.3	2126.2	2102.2	2073.5	2047.9	2023.2	2001.6	1980.1	1955.3	1929.8	1904.2
7.5°	2251.7	2214.0	2173.3	2126.2	2080.3	2038.7	2000.3	1963.6	1922.1	1884.9	1851.0
10°	2325.8	2274.7	2218.0	2158.1	2098.2	2046.3	1995.2	1948.9	1897.8	1852.3	1814.0
12.5°	2385.8	2325.8	2257.6	2183.0	2111.0	2048.2	1989.5	1929.1	1871.0	1821.7	1770.6
15°	2485.4	2403.2	2311.4	2222.0	2128.6	2043.1	1964.1	1893.8	1827.6	1758.1	1709.4
17.5°	2554.0	2456.4	2344.8	2237.3	2127.0	2026.2	1935.0	1851.4	1774.9	1704.0	1646.0
20°	2594.8	2487.0	2363.3	2241.1	2117.4	2009.6	1911.4	1818.8	1739.7	1663.1	1603.2
22.5°	2617.8	2498.5	2363.3	2235.4	2107.2	1990.4	1882.6	1786.2	1700.1	1623.5	1557.2
25°	2625.2	2497.4	2359.3	2212.4	2071.9	1948.1	1836.3	1731.7	1635.9	1559.3	1489.0
27.5°	2615.0	2464.5	2323.1	2172.3	2027.3	1896.9	1779.5	1669.6	1573.7	1491.4	1419.4
30°	2599.6	2438.3	2286.6	2130.2	1983.2	1857.9	1734.1	1628.8	1529.0	1443.5	1370.9
32.5°	2566.4	2406.4	2243.2	2082.9	1934.1	1804.9	1687.5	1581.5	1483.6	1396.3	1319.1
35°	2500.6	2338.5	2161.3	1996.8	1850.7	1716.6	1606.4	1504.2	1410.8	1317.4	1235.9
37.5°	2413.9	2248.3	2072.0	1891.9	1745.6	1619.0	1517.9	1422.0	1330.8	1245.5	1155.3
40°	2332.2	2181.3	1999.2	1820.4	1670.3	1548.1	1454.7	1367.7	1275.9	1191.2	1101.0
42.5°	2233.2	2104.6	1920.7	1741.2	1593.0	1475.3	1388.3	1303.2	1219.7	1137.6	1043.5
45°	2067.9	1970.5	1798.0	1625.6	1476.3	1359.7	1279.9	1204.8	1131.3	1053.1	964.5
47.5°	1878.5	1812.5	1663.7	1487.1	1349.0	1244.1	1167.0	1105.6	1043.5	965.3	887.5
50°	1746.9	1704.6	1560.9	1399.6	1267.9	1171.3	1092.2	1034.7	982.8	907.8	838.3
52.5°	1606.4	1583.9	1462.5	1308.3	1181.0	1086.3	1018.8	967.0	914.5	852.2	787.2
55°	1392.4	1404.4	1301.4	1168.1	1048.3	968.5	907.0	863.9	819.2	766.5	716.2
57.5°	1173.7	1217.4	1148.3	1031.2	919.0	845.2	798.9	762.6	725.1	681.4	638.4
60°	1042.7	1079.4	1040.3	937.3	839.1	770.5	727.4	699.4	661.9	622.0	589.2
62.5°	915.0	954.3	931.1	847.9	756.7	697.7	659.6	633.6	605.7	570.9	536.9
65°	754.5	780.0	768.9	711.4	646.7	596.4	561.3	542.1	516.6	491.0	460.7
67.5°	577.9	627.2	620.7	590.2	534.3	495.0	472.0	455.1	431.8	412.8	392.2
70°	475.1	520.6	519.8	495.0	464.7	427.9	412.0	397.6	376.8	358.5	341.7
72.5°	388.8	430.5	436.7	417.7	397.0	369.2	353.9	344.0	323.8	311.2	297.6
75°	272.3	302.6	310.6	310.6	301.0	286.6	273.1	266.7	252.3	241.1	233.1
77.5°	178.5	197.7	210.1	213.0	214.5	209.7	198.5	194.0	183.0	179.0	171.3
80°	126.1	138.9	153.3	158.1	162.1	160.5	155.7	152.5	142.1	138.1	134.9
82.5°	87.2	94.2	106.0	116.6	115.4	119.6	115.4	112.9	105.1	103.6	100.4
85°	45.5	46.3	47.9	55.1	59.1	60.7	61.5	59.9	57.5	57.5	51.9
87.5°	20.1	19.0	19.8	19.3	19.3	21.2	22.5	22.5	21.2	19.9	18.6
90°	23.9	21.6	19.3	16.6	13.4	10.2	7.1	3.9	7.1	10.2	13.4
92.5°	48.1	46.5	44.9	42.3	38.6	35.0	31.4	27.8	31.4	35.0	38.6
95°	94.5	92.5	90.5	88.2	85.6	83.0	80.4	77.8	80.4	83.0	85.6
97.5°	151.2	148.8	146.4	144.2	142.1	140.1	138.0	135.9	138.0	140.1	142.1
100°	193.2	190.6	188.0	186.2	185.0	183.9	182.7	181.6	182.7	183.9	185.0
102.5°	237.3	234.9	232.5	231.1	230.7	230.2	229.8	229.3	229.8	230.2	230.7
105°	306.4	305.2	304.0	303.3	303.0	302.8	302.5	302.2	302.5	302.8	303.0
107.5°	380.7	380.5	380.3	380.1	379.7	379.4	379.0	378.7	379.0	379.4	379.7
110°	432.4	432.7	433.0	432.9	432.3	431.7	431.1	430.6	431.1	431.7	432.3



TEST NUMBER: P333108

CATALOG NUMBER: S124RDIW-S1195D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	483.7	484.3	484.8	485.0	484.9	484.7	484.6	484.5	484.6	484.7	484.9
115°	564.0	564.6	565.2	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4
117.5°	641.7	642.1	642.5	642.6	642.4	642.2	641.9	641.7	641.9	642.2	642.4
120°	695.6	696.4	697.3	697.1	696.0	694.8	693.7	692.5	693.7	694.8	696.0
122.5°	746.5	746.9	747.3	747.3	746.8	746.4	745.9	745.4	745.9	746.4	746.8
125°	822.8	823.1	823.4	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5
127.5°	897.1	897.5	898.0	897.8	896.9	896.1	895.2	894.3	895.2	896.1	896.9
130°	948.0	948.0	948.0	947.6	946.7	945.9	945.0	944.1	945.0	945.9	946.7
132.5°	997.2	997.5	997.7	997.5	996.9	996.2	995.6	995.0	995.6	996.2	996.9
135°	1069.9	1069.9	1069.9	1069.1	1067.3	1065.6	1063.9	1062.1	1063.9	1065.6	1067.3
137.5°	1140.1	1139.6	1139.2	1138.5	1137.7	1136.9	1136.1	1135.3	1136.1	1136.9	1137.7
140°	1186.6	1186.6	1186.6	1186.4	1185.8	1185.2	1184.6	1184.1	1184.6	1185.2	1185.8
142.5°	1230.7	1230.9	1231.1	1231.0	1230.4	1229.8	1229.2	1228.7	1229.2	1229.8	1230.4
145°	1296.3	1296.0	1295.7	1295.0	1293.9	1292.7	1291.6	1290.4	1291.6	1292.7	1293.9
147.5°	1357.3	1357.5	1357.7	1357.1	1355.8	1354.4	1353.0	1351.6	1353.0	1354.4	1355.8
150°	1394.1	1394.1	1394.1	1393.6	1392.4	1391.3	1390.1	1389.0	1390.1	1391.3	1392.4
152.5°	1427.9	1427.7	1427.5	1427.0	1426.3	1425.6	1424.9	1424.2	1424.9	1425.6	1426.3
155°	1477.7	1478.0	1478.3	1478.4	1478.4	1478.4	1478.4	1478.4	1478.4	1478.4	1478.4
157.5°	1521.6	1521.7	1521.7	1522.0	1522.5	1523.1	1523.6	1524.1	1523.6	1523.1	1522.5
160°	1549.1	1549.3	1549.6	1549.9	1550.2	1550.5	1550.8	1551.1	1550.8	1550.5	1550.2
162.5°	1571.9	1572.2	1572.5	1573.0	1573.7	1574.5	1575.2	1576.0	1575.2	1574.5	1573.7
165°	1604.1	1604.7	1605.3	1606.0	1606.8	1607.7	1608.6	1609.4	1608.6	1607.7	1606.8
167.5°	1629.8	1629.8	1629.7	1630.3	1631.5	1632.7	1633.9	1635.1	1633.9	1632.7	1631.5
170°	1643.9	1643.6	1643.3	1643.9	1645.3	1646.8	1648.2	1649.6	1648.2	1646.8	1645.3
172.5°	1654.7	1654.7	1654.6	1655.2	1656.4	1657.6	1658.8	1660.0	1658.8	1657.6	1656.4
175°	1667.1	1667.4	1667.6	1668.5	1670.0	1671.4	1672.8	1674.3	1672.8	1671.4	1670.0
177.5°	1673.8	1673.8	1673.8	1674.3	1675.5	1676.6	1677.8	1678.9	1677.8	1676.6	1675.5
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



TEST NUMBER: P333108

CATALOG NUMBER: S124RDIW-S1195D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1945.9	1939.5	1931.2	1921.6	1910.1	1899.9	1895.4	1899.3	1901.2	1896.1	1895.4
5°	1886.6	1866.7	1850.7	1826.8	1807.6	1791.6	1780.5	1775.7	1777.3	1764.5	1761.3
7.5°	1820.1	1796.4	1770.2	1741.8	1715.3	1691.8	1679.5	1672.8	1659.3	1653.5	1643.8
10°	1777.3	1745.3	1719.8	1686.2	1655.9	1628.0	1614.4	1603.2	1589.6	1583.2	1569.7
12.5°	1733.2	1696.1	1668.0	1633.2	1602.2	1568.6	1555.6	1534.9	1513.6	1500.2	1482.8
15°	1671.1	1626.4	1592.0	1550.5	1513.8	1475.5	1441.1	1402.8	1388.4	1358.1	1340.5
17.5°	1598.4	1553.1	1510.6	1454.9	1398.2	1350.6	1314.0	1277.3	1255.3	1235.9	1227.0
20°	1550.5	1509.0	1449.9	1385.2	1322.2	1269.5	1239.9	1216.0	1192.0	1178.5	1168.9
22.5°	1505.2	1452.1	1383.5	1313.7	1250.6	1209.4	1184.4	1159.8	1140.3	1127.4	1114.6
25°	1429.2	1359.7	1287.0	1207.2	1164.1	1128.2	1101.0	1081.0	1069.1	1052.3	1045.9
27.5°	1351.1	1266.9	1186.8	1133.1	1088.2	1055.3	1031.7	1016.7	1001.5	990.8	982.5
30°	1291.0	1205.6	1133.7	1082.6	1037.1	1010.0	990.8	973.3	961.3	952.5	946.1
32.5°	1231.6	1146.2	1085.8	1030.9	995.0	968.5	948.0	934.9	925.5	914.2	910.3
35°	1145.7	1069.9	1017.2	967.7	930.9	907.0	891.0	877.5	869.5	866.3	863.9
37.5°	1063.2	1001.0	944.4	903.8	871.1	852.2	833.4	826.7	821.2	815.5	818.1
40°	1010.8	952.5	902.2	859.1	832.7	812.0	800.8	792.8	788.0	788.0	788.0
42.5°	965.4	908.4	859.4	820.8	794.4	776.9	764.4	757.7	756.1	755.5	759.3
45°	895.0	842.3	792.8	760.9	738.5	721.0	713.8	708.2	708.2	711.4	712.2
47.5°	825.2	775.9	736.1	700.4	679.9	668.9	662.7	659.8	660.1	663.3	667.0
50°	782.4	733.7	694.6	662.7	643.5	633.1	627.5	626.0	627.5	627.5	633.1
52.5°	735.8	692.2	653.7	626.9	605.2	595.5	592.4	590.2	591.1	593.7	596.1
55°	667.5	628.3	591.6	566.1	550.1	543.7	536.5	537.3	535.7	537.3	537.3
57.5°	599.0	563.8	529.7	509.4	495.3	486.1	478.2	480.5	478.1	477.8	476.5
60°	554.9	516.6	489.4	471.1	455.1	447.1	439.9	441.5	439.1	437.5	434.3
62.5°	507.0	475.1	449.2	431.5	418.7	409.4	402.2	400.6	395.1	389.6	382.6
65°	437.5	411.2	388.0	371.3	359.3	352.1	346.5	341.7	329.7	317.0	310.6
67.5°	370.0	351.0	329.4	315.2	305.5	296.1	285.4	277.2	266.0	259.0	255.0
70°	326.5	308.2	289.8	276.2	265.9	257.1	245.1	239.5	231.5	228.3	224.4
72.5°	285.0	267.9	250.9	238.6	227.5	220.7	211.3	205.7	202.2	200.9	196.9
75°	222.0	208.4	195.6	184.4	175.7	170.9	166.9	162.9	161.3	154.1	150.1
77.5°	161.9	153.0	145.0	137.0	130.8	127.6	119.9	115.3	112.6	109.2	108.4
80°	126.1	119.8	111.8	107.0	98.2	95.0	91.8	91.0	90.2	89.4	88.6
82.5°	94.9	88.5	80.5	77.6	75.2	73.3	71.4	70.6	69.8	70.3	70.1
85°	47.9	44.7	44.7	43.9	43.1	42.3	41.5	41.5	40.7	41.5	40.7
87.5°	19.3	19.2	19.7	18.8	19.9	20.4	20.1	20.4	21.4	20.5	20.7
90°	16.6	19.3	21.6	23.9	26.2	28.5	30.3	32.0	33.7	35.4	36.6
92.5°	42.3	44.9	46.5	48.1	49.7	51.4	52.4	53.4	54.5	55.5	56.2
95°	88.2	90.5	92.5	94.5	96.5	98.6	99.4	100.3	101.2	102.0	102.5
97.5°	144.2	146.4	148.8	151.2	153.5	155.9	156.9	158.0	159.0	160.0	160.6
100°	186.2	188.0	190.6	193.2	195.8	198.4	199.0	199.6	200.2	200.7	201.0
102.5°	231.1	232.5	234.9	237.3	239.6	242.0	242.8	243.6	244.4	245.2	245.7
105°	303.3	304.0	305.2	306.4	307.5	308.7	309.5	310.4	311.3	312.1	313.0
107.5°	380.1	380.3	380.5	380.7	380.9	381.0	381.8	382.6	383.4	384.3	384.6
110°	432.9	433.0	432.7	432.4	432.2	431.9	431.3	430.7	430.1	429.6	429.7



TEST NUMBER: P333108

CATALOG NUMBER: S124RDIW-S1195D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	485.0	484.8	484.3	483.7	483.2	482.7	482.6	482.5	482.4	482.2	482.3
115°	565.4	565.2	564.6	564.0	563.4	562.8	562.6	562.3	562.0	561.7	561.4
117.5°	642.6	642.5	642.1	641.7	641.3	640.9	639.9	639.0	638.0	637.0	636.2
120°	697.1	697.3	696.4	695.6	694.7	693.8	692.4	691.0	689.5	688.1	687.6
122.5°	747.3	747.3	746.9	746.5	746.1	745.7	744.7	743.7	742.8	741.8	740.8
125°	823.5	823.4	823.1	822.8	822.5	822.2	821.6	821.1	820.5	819.9	819.3
127.5°	897.8	898.0	897.5	897.1	896.6	896.1	895.6	895.0	894.4	893.8	893.3
130°	947.6	948.0	948.0	948.0	948.0	948.0	947.4	946.9	946.3	945.7	944.9
132.5°	997.5	997.7	997.5	997.2	997.0	996.8	996.2	995.6	995.1	994.5	994.0
135°	1069.1	1069.9	1069.9	1069.9	1069.9	1069.9	1069.4	1068.8	1068.2	1067.6	1066.9
137.5°	1138.5	1139.2	1139.6	1140.1	1140.5	1141.0	1140.2	1139.5	1138.8	1138.0	1137.7
140°	1186.4	1186.6	1186.6	1186.6	1186.6	1186.6	1186.4	1186.1	1185.8	1185.5	1185.2
142.5°	1231.0	1231.1	1230.9	1230.7	1230.5	1230.2	1230.2	1230.1	1230.1	1230.0	1229.9
145°	1295.0	1295.7	1296.0	1296.3	1296.6	1296.9	1296.6	1296.3	1296.0	1295.7	1295.2
147.5°	1357.1	1357.7	1357.5	1357.3	1357.0	1356.8	1356.6	1356.3	1356.1	1355.9	1355.6
150°	1393.6	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.0
152.5°	1427.0	1427.5	1427.7	1427.9	1428.2	1428.4	1429.1	1429.8	1430.5	1431.2	1431.1
155°	1478.4	1478.3	1478.0	1477.7	1477.4	1477.2	1478.3	1479.5	1480.6	1481.8	1481.8
157.5°	1522.0	1521.7	1521.7	1521.6	1521.6	1521.5	1522.4	1523.2	1524.1	1525.0	1524.9
160°	1549.9	1549.6	1549.3	1549.1	1548.8	1548.5	1549.3	1550.2	1551.1	1551.9	1551.6
162.5°	1573.0	1572.5	1572.2	1571.9	1571.6	1571.3	1572.9	1574.4	1576.0	1577.5	1577.6
165°	1606.0	1605.3	1604.7	1604.1	1603.5	1602.9	1604.7	1606.4	1608.1	1609.9	1610.2
167.5°	1630.3	1629.7	1629.8	1629.8	1629.9	1629.9	1631.7	1633.4	1635.1	1636.8	1636.8
170°	1643.9	1643.3	1643.6	1643.9	1644.2	1644.4	1646.2	1647.9	1649.6	1651.4	1651.2
172.5°	1655.2	1654.6	1654.7	1654.7	1654.8	1654.8	1656.8	1658.7	1660.7	1662.7	1662.6
175°	1668.5	1667.6	1667.4	1667.1	1666.8	1666.5	1668.5	1670.5	1672.5	1674.6	1674.6
177.5°	1674.3	1673.8	1673.8	1673.8	1673.8	1673.8	1675.4	1677.0	1678.6	1680.2	1680.1
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



TEST NUMBER: P333108

CATALOG NUMBER: S124RDIW-S1195D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1891.6	1892.9	1888.4	1887.1	1888.4	1892.9	1891.6	1895.4	1896.1	1901.2	1899.3
5°	1754.9	1753.3	1749.3	1750.1	1749.3	1753.3	1754.9	1761.3	1764.5	1777.3	1775.7
7.5°	1638.0	1631.8	1633.5	1627.2	1633.5	1631.8	1638.0	1643.8	1653.5	1659.3	1672.8
10°	1566.5	1557.7	1550.5	1544.1	1550.5	1557.7	1566.5	1569.7	1583.2	1589.6	1603.2
12.5°	1468.8	1461.2	1451.5	1453.4	1451.5	1461.2	1468.8	1482.8	1500.2	1513.6	1534.9
15°	1330.1	1318.2	1299.0	1301.4	1299.0	1318.2	1330.1	1340.5	1358.1	1388.4	1402.8
17.5°	1212.8	1212.9	1204.2	1206.2	1204.2	1212.9	1212.8	1227.0	1235.9	1255.3	1277.3
20°	1152.1	1146.5	1147.3	1144.9	1147.3	1146.5	1152.1	1168.9	1178.5	1192.0	1216.0
22.5°	1109.9	1103.1	1097.5	1092.5	1097.5	1103.1	1109.9	1114.6	1127.4	1140.3	1159.8
25°	1038.7	1033.9	1026.8	1025.2	1026.8	1033.9	1038.7	1045.9	1052.3	1069.1	1081.0
27.5°	976.1	975.2	972.3	968.6	972.3	975.2	976.1	982.5	990.8	1001.5	1016.7
30°	939.7	938.1	936.5	934.1	936.5	938.1	939.7	946.1	952.5	961.3	973.3
32.5°	907.2	906.2	904.6	904.8	904.6	906.2	907.2	910.3	914.2	925.5	934.9
35°	860.7	859.9	858.3	857.5	858.3	859.9	860.7	863.9	866.3	869.5	877.5
37.5°	817.3	819.3	818.4	818.2	818.4	819.3	817.3	818.1	815.5	821.2	826.7
40°	787.2	788.0	789.6	788.8	789.6	788.0	787.2	788.0	788.0	788.0	792.8
42.5°	762.3	762.5	764.7	762.0	764.7	762.5	762.3	759.3	755.5	756.1	757.7
45°	717.8	722.6	721.8	721.8	721.8	722.6	717.8	712.2	711.4	708.2	708.2
47.5°	669.1	673.2	674.3	674.2	674.3	673.2	669.1	667.0	663.3	660.1	659.8
50°	637.1	635.5	637.9	637.1	637.9	635.5	637.1	633.1	627.5	627.5	626.0
52.5°	598.2	598.5	598.3	597.5	598.3	598.5	598.2	596.1	593.7	591.1	590.2
55°	538.1	538.9	537.3	538.1	537.3	538.9	538.1	537.3	537.3	535.7	537.3
57.5°	473.0	469.1	470.7	468.8	470.7	469.1	473.0	476.5	477.8	478.1	480.5
60°	426.4	420.0	418.4	415.2	418.4	420.0	426.4	434.3	437.5	439.1	441.5
62.5°	374.0	369.5	364.1	366.6	364.1	369.5	374.0	382.6	389.6	395.1	400.6
65°	304.2	301.0	298.6	301.8	298.6	301.0	304.2	310.6	317.0	329.7	341.7
67.5°	251.8	250.1	250.1	248.5	250.1	250.1	251.8	255.0	259.0	266.0	277.2
70°	224.4	222.0	222.0	220.4	222.0	222.0	224.4	224.4	228.3	231.5	239.5
72.5°	196.2	193.9	194.5	193.5	194.5	193.9	196.2	196.9	200.9	202.2	205.7
75°	145.3	141.3	141.3	142.1	141.3	141.3	145.3	150.1	154.1	161.3	162.9
77.5°	108.4	107.6	108.7	107.3	108.7	107.6	108.4	108.4	109.2	112.6	115.3
80°	88.6	87.8	87.0	89.4	87.0	87.8	88.6	88.6	89.4	90.2	91.0
82.5°	68.8	68.7	68.5	71.5	68.5	68.7	68.8	70.1	70.3	69.8	70.6
85°	41.5	39.9	41.5	39.9	41.5	39.9	41.5	40.7	41.5	40.7	41.5
87.5°	22.1	21.6	21.1	21.8	21.1	21.6	22.1	20.7	20.5	21.4	20.4
90°	37.2	37.8	38.3	38.9	38.3	37.8	37.2	36.6	35.4	33.7	32.0
92.5°	56.5	56.9	57.2	57.6	57.2	56.9	56.5	56.2	55.5	54.5	53.4
95°	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.0	101.2	100.3
97.5°	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.0	159.0	158.0
100°	201.0	201.0	201.0	201.0	201.0	201.0	201.0	201.0	200.7	200.2	199.6
102.5°	246.0	246.2	246.4	246.7	246.4	246.2	246.0	245.7	245.2	244.4	243.6
105°	313.8	314.7	315.6	316.4	315.6	314.7	313.8	313.0	312.1	311.3	310.4
107.5°	384.6	384.5	384.5	384.4	384.5	384.5	384.6	384.6	384.3	383.4	382.6
110°	430.6	431.4	432.3	433.2	432.3	431.4	430.6	429.7	429.6	430.1	430.7



TEST NUMBER: P333108

CATALOG NUMBER: S124RDIW-S1195D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	482.4	482.6	482.8	483.0	482.8	482.6	482.4	482.3	482.2	482.4	482.5
115°	561.1	560.8	560.5	560.3	560.5	560.8	561.1	561.4	561.7	562.0	562.3
117.5°	635.6	635.1	634.5	633.9	634.5	635.1	635.6	636.2	637.0	638.0	639.0
120°	688.2	688.8	689.4	689.9	689.4	688.8	688.2	687.6	688.1	689.5	691.0
122.5°	739.7	738.7	737.7	736.6	737.7	738.7	739.7	740.8	741.8	742.8	743.7
125°	818.8	818.2	817.6	817.0	817.6	818.2	818.8	819.3	819.9	820.5	821.1
127.5°	892.9	892.4	891.9	891.5	891.9	892.4	892.9	893.3	893.8	894.4	895.0
130°	943.7	942.5	941.4	940.2	941.4	942.5	943.7	944.9	945.7	946.3	946.9
132.5°	993.5	993.0	992.6	992.1	992.6	993.0	993.5	994.0	994.5	995.1	995.6
135°	1066.0	1065.2	1064.3	1063.4	1064.3	1065.2	1066.0	1066.9	1067.6	1068.2	1068.8
137.5°	1137.9	1138.1	1138.2	1138.4	1138.2	1138.1	1137.9	1137.7	1138.0	1138.8	1139.5
140°	1184.9	1184.6	1184.3	1184.1	1184.3	1184.6	1184.9	1185.2	1185.5	1185.8	1186.1
142.5°	1229.9	1229.8	1229.8	1229.7	1229.8	1229.8	1229.9	1229.9	1230.0	1230.1	1230.1
145°	1294.3	1293.4	1292.6	1291.7	1292.6	1293.4	1294.3	1295.2	1295.7	1296.0	1296.3
147.5°	1355.3	1355.0	1354.8	1354.5	1354.8	1355.0	1355.3	1355.6	1355.9	1356.1	1356.3
150°	1393.7	1393.4	1393.1	1392.9	1393.1	1393.4	1393.7	1394.0	1394.1	1394.1	1394.1
152.5°	1430.4	1429.6	1428.9	1428.1	1428.9	1429.6	1430.4	1431.1	1431.2	1430.5	1429.8
155°	1480.6	1479.5	1478.3	1477.2	1478.3	1479.5	1480.6	1481.8	1481.8	1480.6	1479.5
157.5°	1523.9	1522.9	1522.0	1521.0	1522.0	1522.9	1523.9	1524.9	1525.0	1524.1	1523.2
160°	1550.2	1548.8	1547.3	1545.9	1547.3	1548.8	1550.2	1551.6	1551.9	1551.1	1550.2
162.5°	1576.1	1574.7	1573.3	1571.8	1573.3	1574.7	1576.1	1577.6	1577.5	1576.0	1574.4
165°	1609.0	1607.8	1606.7	1605.5	1606.7	1607.8	1609.0	1610.2	1609.9	1608.1	1606.4
167.5°	1635.0	1633.2	1631.5	1629.7	1631.5	1633.2	1635.0	1636.8	1636.8	1635.1	1633.4
170°	1649.2	1647.2	1645.2	1643.2	1645.2	1647.2	1649.2	1651.2	1651.4	1649.6	1647.9
172.5°	1660.6	1658.6	1656.6	1654.6	1656.6	1658.6	1660.6	1662.6	1662.7	1660.7	1658.7
175°	1672.5	1670.5	1668.5	1666.5	1668.5	1670.5	1672.5	1674.6	1674.6	1672.5	1670.5
177.5°	1678.3	1676.4	1674.6	1672.7	1674.6	1676.4	1678.3	1680.1	1680.2	1678.6	1677.0
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1895.4	1899.9	1910.1	1921.6	1931.2	1939.5	1945.9	1954.8	1963.1	1974.6	1985.5
5°	1780.5	1791.6	1807.6	1826.8	1850.7	1866.7	1886.6	1904.2	1929.8	1955.3	1980.1
7.5°	1679.5	1691.8	1715.3	1741.8	1770.2	1796.4	1820.1	1851.0	1884.9	1922.1	1963.6
10°	1614.4	1628.0	1655.9	1686.2	1719.8	1745.3	1777.3	1814.0	1852.3	1897.8	1948.9
12.5°	1555.6	1568.6	1602.2	1633.2	1668.0	1696.1	1733.2	1770.6	1821.7	1871.0	1929.1
15°	1441.1	1475.5	1513.8	1550.5	1592.0	1626.4	1671.1	1709.4	1758.1	1827.6	1893.8
17.5°	1314.0	1350.6	1398.2	1454.9	1510.6	1553.1	1598.4	1646.0	1704.0	1774.9	1851.4
20°	1239.9	1269.5	1322.2	1385.2	1449.9	1509.0	1550.5	1603.2	1663.1	1739.7	1818.8
22.5°	1184.4	1209.4	1250.6	1313.7	1383.5	1452.1	1505.2	1557.2	1623.5	1700.1	1786.2
25°	1101.0	1128.2	1164.1	1207.2	1287.0	1359.7	1429.2	1489.0	1559.3	1635.9	1731.7
27.5°	1031.7	1055.3	1088.2	1133.1	1186.8	1266.9	1351.1	1419.4	1491.4	1573.7	1669.6
30°	990.8	1010.0	1037.1	1082.6	1133.7	1205.6	1291.0	1370.9	1443.5	1529.0	1628.8
32.5°	948.0	968.5	995.0	1030.9	1085.8	1146.2	1231.6	1319.1	1396.3	1483.6	1581.5
35°	891.0	907.0	930.9	967.7	1017.2	1069.9	1145.7	1235.9	1317.4	1410.8	1504.2
37.5°	833.4	852.2	871.1	903.8	944.4	1001.0	1063.2	1155.3	1245.5	1330.8	1422.0
40°	800.8	812.0	832.7	859.1	902.2	952.5	1010.8	1101.0	1191.2	1275.9	1367.7
42.5°	764.4	776.9	794.4	820.8	859.4	908.4	965.4	1043.5	1137.6	1219.7	1303.2
45°	713.8	721.0	738.5	760.9	792.8	842.3	895.0	964.5	1053.1	1131.3	1204.8
47.5°	662.7	668.9	679.9	700.4	736.1	775.9	825.2	887.5	965.3	1043.5	1105.6
50°	627.5	633.1	643.5	662.7	694.6	733.7	782.4	838.3	907.8	982.8	1034.7
52.5°	592.4	595.5	605.2	626.9	653.7	692.2	735.8	787.2	852.2	914.5	967.0
55°	536.5	543.7	550.1	566.1	591.6	628.3	667.5	716.2	766.5	819.2	863.9
57.5°	478.2	486.1	495.3	509.4	529.7	563.8	599.0	638.4	681.4	725.1	762.6
60°	439.9	447.1	455.1	471.1	489.4	516.6	554.9	589.2	622.0	661.9	699.4
62.5°	402.2	409.4	418.7	431.5	449.2	475.1	507.0	536.9	570.9	605.7	633.6
65°	346.5	352.1	359.3	371.3	388.0	411.2	437.5	460.7	491.0	516.6	542.1
67.5°	285.4	296.1	305.5	315.2	329.4	351.0	370.0	392.2	412.8	431.8	455.1
70°	245.1	257.1	265.9	276.2	289.8	308.2	326.5	341.7	358.5	376.8	397.6
72.5°	211.3	220.7	227.5	238.6	250.9	267.9	285.0	297.6	311.2	323.8	344.0
75°	166.9	170.9	175.7	184.4	195.6	208.4	222.0	233.1	241.1	252.3	266.7
77.5°	119.9	127.6	130.8	137.0	145.0	153.0	161.9	171.3	179.0	183.0	194.0
80°	91.8	95.0	98.2	107.0	111.8	119.8	126.1	134.9	138.1	142.1	152.5
82.5°	71.4	73.3	75.2	77.6	80.5	88.5	94.9	100.4	103.6	105.1	112.9
85°	41.5	42.3	43.1	43.9	44.7	44.7	47.9	51.9	57.5	57.5	59.9
87.5°	20.1	20.4	19.9	18.8	19.7	19.2	19.3	18.6	19.9	21.2	22.5
90°	30.3	28.5	26.2	23.9	21.6	19.3	16.6	13.4	10.2	7.1	3.9
92.5°	52.4	51.4	49.7	48.1	46.5	44.9	42.3	38.6	35.0	31.4	27.8
95°	99.4	98.6	96.5	94.5	92.5	90.5	88.2	85.6	83.0	80.4	77.8
97.5°	156.9	155.9	153.5	151.2	148.8	146.4	144.2	142.1	140.1	138.0	135.9
100°	199.0	198.4	195.8	193.2	190.6	188.0	186.2	185.0	183.9	182.7	181.6
102.5°	242.8	242.0	239.6	237.3	234.9	232.5	231.1	230.7	230.2	229.8	229.3
105°	309.5	308.7	307.5	306.4	305.2	304.0	303.3	303.0	302.8	302.5	302.2
107.5°	381.8	381.0	380.9	380.7	380.5	380.3	380.1	379.7	379.4	379.0	378.7
110°	431.3	431.9	432.2	432.4	432.7	433.0	432.9	432.3	431.7	431.1	430.6



TEST NUMBER: P333108

CATALOG NUMBER: S124RDIW-S1195D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	482.6	482.7	483.2	483.7	484.3	484.8	485.0	484.9	484.7	484.6	484.5
115°	562.6	562.8	563.4	564.0	564.6	565.2	565.4	565.4	565.4	565.4	565.4
117.5°	639.9	640.9	641.3	641.7	642.1	642.5	642.6	642.4	642.2	641.9	641.7
120°	692.4	693.8	694.7	695.6	696.4	697.3	697.1	696.0	694.8	693.7	692.5
122.5°	744.7	745.7	746.1	746.5	746.9	747.3	747.3	746.8	746.4	745.9	745.4
125°	821.6	822.2	822.5	822.8	823.1	823.4	823.5	823.5	823.5	823.5	823.5
127.5°	895.6	896.1	896.6	897.1	897.5	898.0	897.8	896.9	896.1	895.2	894.3
130°	947.4	948.0	948.0	948.0	948.0	948.0	947.6	946.7	945.9	945.0	944.1
132.5°	996.2	996.8	997.0	997.2	997.5	997.7	997.5	996.9	996.2	995.6	995.0
135°	1069.4	1069.9	1069.9	1069.9	1069.9	1069.9	1069.1	1067.3	1065.6	1063.9	1062.1
137.5°	1140.2	1141.0	1140.5	1140.1	1139.6	1139.2	1138.5	1137.7	1136.9	1136.1	1135.3
140°	1186.4	1186.6	1186.6	1186.6	1186.6	1186.6	1186.4	1185.8	1185.2	1184.6	1184.1
142.5°	1230.2	1230.2	1230.5	1230.7	1230.9	1231.1	1231.0	1230.4	1229.8	1229.2	1228.7
145°	1296.6	1296.9	1296.6	1296.3	1296.0	1295.7	1295.0	1293.9	1292.7	1291.6	1290.4
147.5°	1356.6	1356.8	1357.0	1357.3	1357.5	1357.7	1357.1	1355.8	1354.4	1353.0	1351.6
150°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1393.6	1392.4	1391.3	1390.1	1389.0
152.5°	1429.1	1428.4	1428.2	1427.9	1427.7	1427.5	1427.0	1426.3	1425.6	1424.9	1424.2
155°	1478.3	1477.2	1477.4	1477.7	1478.0	1478.3	1478.4	1478.4	1478.4	1478.4	1478.4
157.5°	1522.4	1521.5	1521.6	1521.6	1521.7	1521.7	1522.0	1522.5	1523.1	1523.6	1524.1
160°	1549.3	1548.5	1548.8	1549.1	1549.3	1549.6	1549.9	1550.2	1550.5	1550.8	1551.1
162.5°	1572.9	1571.3	1571.6	1571.9	1572.2	1572.5	1573.0	1573.7	1574.5	1575.2	1576.0
165°	1604.7	1602.9	1603.5	1604.1	1604.7	1605.3	1606.0	1606.8	1607.7	1608.6	1609.4
167.5°	1631.7	1629.9	1629.9	1629.8	1629.8	1629.7	1630.3	1631.5	1632.7	1633.9	1635.1
170°	1646.2	1644.4	1644.2	1643.9	1643.6	1643.3	1643.9	1645.3	1646.8	1648.2	1649.6
172.5°	1656.8	1654.8	1654.8	1654.7	1654.7	1654.6	1655.2	1656.4	1657.6	1658.8	1660.0
175°	1668.5	1666.5	1666.8	1667.1	1667.4	1667.6	1668.5	1670.0	1671.4	1672.8	1674.3
177.5°	1675.4	1673.8	1673.8	1673.8	1673.8	1673.8	1674.3	1675.5	1676.6	1677.8	1678.9
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



TEST NUMBER: P333108

CATALOG NUMBER: S124RDIW-S1195D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1993.8	1999.5	2005.9	2018.1	2028.3	2032.8	2041.7	2048.1	2046.2	2055.1	2070.4
5°	2001.6	2023.2	2047.9	2073.5	2102.2	2126.2	2145.3	2164.5	2179.7	2198.0	2225.2
7.5°	2000.3	2038.7	2080.3	2126.2	2173.3	2214.0	2251.7	2290.0	2324.0	2361.2	2409.9
10°	1995.2	2046.3	2098.2	2158.1	2218.0	2274.7	2325.8	2373.7	2419.2	2467.9	2529.4
12.5°	1989.5	2048.2	2111.0	2183.0	2257.6	2325.8	2385.8	2454.8	2511.8	2574.6	2645.6
15°	1964.1	2043.1	2128.6	2222.0	2311.4	2403.2	2485.4	2570.1	2649.1	2724.2	2813.6
17.5°	1935.0	2026.2	2127.0	2237.3	2344.8	2456.4	2554.0	2660.6	2741.4	2842.2	2925.2
20°	1911.4	2009.6	2117.4	2241.1	2363.3	2487.0	2594.8	2703.4	2794.4	2895.8	3001.2
22.5°	1882.6	1990.4	2107.2	2235.4	2363.3	2498.5	2617.8	2725.8	2838.5	2952.7	3061.3
25°	1836.3	1948.1	2071.9	2212.4	2359.3	2497.4	2625.2	2759.3	2880.7	3004.4	3101.8
27.5°	1779.5	1896.9	2027.3	2172.3	2323.1	2464.5	2615.0	2757.9	2880.0	2999.1	3084.1
30°	1734.1	1857.9	1983.2	2130.2	2286.6	2438.3	2599.6	2742.5	2871.1	2978.1	3026.0
32.5°	1687.5	1804.9	1934.1	2082.9	2243.2	2406.4	2566.4	2712.5	2831.5	2895.7	2896.9
35°	1606.4	1716.6	1850.7	1996.8	2161.3	2338.5	2500.6	2644.3	2717.0	2722.6	2644.3
37.5°	1517.9	1619.0	1745.6	1891.9	2072.0	2248.3	2413.9	2509.7	2534.0	2452.7	2308.0
40°	1454.7	1548.1	1670.3	1820.4	1999.2	2181.3	2332.2	2402.4	2376.9	2245.1	2083.8
42.5°	1388.3	1475.3	1593.0	1741.2	1920.7	2104.6	2233.2	2270.8	2203.1	2051.0	1862.2
45°	1279.9	1359.7	1476.3	1625.6	1798.0	1970.5	2067.9	2048.7	1936.1	1755.7	1544.1
47.5°	1167.0	1244.1	1349.0	1487.1	1663.7	1812.5	1878.5	1820.7	1660.5	1462.0	1289.9
50°	1092.2	1171.3	1267.9	1399.6	1560.9	1704.6	1746.9	1659.1	1481.0	1290.2	1132.1
52.5°	1018.8	1086.3	1181.0	1308.3	1462.5	1583.9	1606.4	1505.2	1321.4	1150.3	1010.1
55°	907.0	968.5	1048.3	1168.1	1301.4	1404.4	1392.4	1262.3	1095.4	949.3	839.1
57.5°	798.9	845.2	919.0	1031.2	1148.3	1217.4	1173.7	1062.7	907.2	787.6	694.6
60°	727.4	770.5	839.1	937.3	1040.3	1079.4	1042.7	922.2	799.2	689.8	611.6
62.5°	659.6	697.7	756.7	847.9	931.1	954.3	915.0	809.7	698.9	605.5	540.7
65°	561.3	596.4	646.7	711.4	768.9	780.0	754.5	646.7	562.9	484.6	439.9
67.5°	472.0	495.0	534.3	590.2	620.7	627.2	577.9	510.2	436.3	388.2	354.5
70°	412.0	427.9	464.7	495.0	519.8	520.6	475.1	420.8	364.1	325.0	300.2
72.5°	353.9	369.2	397.0	417.7	436.7	430.5	388.8	346.0	300.2	270.7	252.3
75°	273.1	286.6	301.0	310.6	310.6	302.6	272.3	240.3	214.0	196.4	190.8
77.5°	198.5	209.7	214.5	213.0	210.1	197.7	178.5	157.6	148.2	139.9	135.7
80°	155.7	160.5	162.1	158.1	153.3	138.9	126.1	117.4	108.6	105.4	103.8
82.5°	115.4	119.6	115.4	116.6	106.0	94.2	87.2	84.2	80.5	79.2	77.6
85°	61.5	60.7	59.1	55.1	47.9	46.3	45.5	44.7	43.1	43.9	42.3
87.5°	22.5	21.2	19.3	19.3	19.8	19.0	20.1	20.6	21.0	20.7	22.4
90°	7.1	10.2	13.4	16.6	19.3	21.6	23.9	26.2	28.5	30.3	32.0
92.5°	31.4	35.0	38.6	42.3	44.9	46.5	48.1	49.7	51.4	52.4	53.4
95°	80.4	83.0	85.6	88.2	90.5	92.5	94.5	96.5	98.6	99.4	100.3
97.5°	138.0	140.1	142.1	144.2	146.4	148.8	151.2	153.5	155.9	156.9	158.0
100°	182.7	183.9	185.0	186.2	188.0	190.6	193.2	195.8	198.4	199.0	199.6
102.5°	229.8	230.2	230.7	231.1	232.5	234.9	237.3	239.6	242.0	242.8	243.6
105°	302.5	302.8	303.0	303.3	304.0	305.2	306.4	307.5	308.7	309.5	310.4
107.5°	379.0	379.4	379.7	380.1	380.3	380.5	380.7	380.9	381.0	381.8	382.6
110°	431.1	431.7	432.3	432.9	433.0	432.7	432.4	432.2	431.9	431.3	430.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	484.6	484.7	484.9	485.0	484.8	484.3	483.7	483.2	482.7	482.6	482.5
115°	565.4	565.4	565.4	565.4	565.2	564.6	564.0	563.4	562.8	562.6	562.3
117.5°	641.9	642.2	642.4	642.6	642.5	642.1	641.7	641.3	640.9	639.9	639.0
120°	693.7	694.8	696.0	697.1	697.3	696.4	695.6	694.7	693.8	692.4	691.0
122.5°	745.9	746.4	746.8	747.3	747.3	746.9	746.5	746.1	745.7	744.7	743.7
125°	823.5	823.5	823.5	823.5	823.4	823.1	822.8	822.5	822.2	821.6	821.1
127.5°	895.2	896.1	896.9	897.8	898.0	897.5	897.1	896.6	896.1	895.6	895.0
130°	945.0	945.9	946.7	947.6	948.0	948.0	948.0	948.0	948.0	947.4	946.9
132.5°	995.6	996.2	996.9	997.5	997.7	997.5	997.2	997.0	996.8	996.2	995.6
135°	1063.9	1065.6	1067.3	1069.1	1069.9	1069.9	1069.9	1069.9	1069.9	1069.4	1068.8
137.5°	1136.1	1136.9	1137.7	1138.5	1139.2	1139.6	1140.1	1140.5	1141.0	1140.2	1139.5
140°	1184.6	1185.2	1185.8	1186.4	1186.6	1186.6	1186.6	1186.6	1186.6	1186.4	1186.1
142.5°	1229.2	1229.8	1230.4	1231.0	1231.1	1230.9	1230.7	1230.5	1230.2	1230.2	1230.1
145°	1291.6	1292.7	1293.9	1295.0	1295.7	1296.0	1296.3	1296.6	1296.9	1296.6	1296.3
147.5°	1353.0	1354.4	1355.8	1357.1	1357.7	1357.5	1357.3	1357.0	1356.8	1356.6	1356.3
150°	1390.1	1391.3	1392.4	1393.6	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1
152.5°	1424.9	1425.6	1426.3	1427.0	1427.5	1427.7	1427.9	1428.2	1428.4	1429.1	1429.8
155°	1478.4	1478.4	1478.4	1478.4	1478.3	1478.0	1477.7	1477.4	1477.2	1478.3	1479.5
157.5°	1523.6	1523.1	1522.5	1522.0	1521.7	1521.7	1521.6	1521.6	1521.5	1522.4	1523.2
160°	1550.8	1550.5	1550.2	1549.9	1549.6	1549.3	1549.1	1548.8	1548.5	1549.3	1550.2
162.5°	1575.2	1574.5	1573.7	1573.0	1572.5	1572.2	1571.9	1571.6	1571.3	1572.9	1574.4
165°	1608.6	1607.7	1606.8	1606.0	1605.3	1604.7	1604.1	1603.5	1602.9	1604.7	1606.4
167.5°	1633.9	1632.7	1631.5	1630.3	1629.7	1629.8	1629.8	1629.9	1629.9	1631.7	1633.4
170°	1648.2	1646.8	1645.3	1643.9	1643.3	1643.6	1643.9	1644.2	1644.4	1646.2	1647.9
172.5°	1658.8	1657.6	1656.4	1655.2	1654.6	1654.7	1654.7	1654.8	1654.8	1656.8	1658.7
175°	1672.8	1671.4	1670.0	1668.5	1667.6	1667.4	1667.1	1666.8	1666.5	1668.5	1670.5
177.5°	1677.8	1676.6	1675.5	1674.3	1673.8	1673.8	1673.8	1673.8	1673.8	1675.4	1677.0
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2078.7	2081.3	2083.2	2089.6	2090.2	2096.0	2090.2
5°	2250.7	2261.9	2279.5	2297.0	2298.6	2309.8	2289.8
7.5°	2443.6	2469.5	2485.6	2514.0	2525.2	2532.2	2520.7
10°	2576.5	2600.4	2642.7	2663.5	2684.3	2687.4	2677.9
12.5°	2704.9	2742.9	2776.2	2815.5	2814.6	2842.7	2832.4
15°	2875.9	2915.0	2961.3	3005.2	3021.2	3021.2	3034.0
17.5°	2997.9	3069.6	3117.5	3152.0	3189.6	3196.2	3191.7
20°	3080.3	3157.7	3208.8	3253.5	3279.1	3286.3	3286.3
22.5°	3141.6	3207.5	3257.4	3297.6	3318.7	3327.1	3324.6
25°	3184.1	3240.7	3271.1	3283.1	3288.6	3287.1	3271.9
27.5°	3125.9	3123.4	3104.2	3067.5	3039.9	3023.1	3003.9
30°	3014.8	2973.3	2925.4	2872.7	2804.8	2752.9	2736.9
32.5°	2849.4	2756.1	2675.0	2587.2	2514.2	2462.3	2440.6
35°	2529.4	2381.7	2261.1	2155.7	2079.1	2031.2	2015.2
37.5°	2149.6	2006.7	1857.4	1755.2	1691.7	1643.3	1625.2
40°	1908.2	1752.5	1622.4	1526.6	1461.1	1414.0	1413.2
42.5°	1687.8	1539.2	1416.7	1347.7	1277.1	1246.0	1245.8
45°	1382.0	1263.1	1159.3	1105.0	1062.7	1037.1	1029.9
47.5°	1144.3	1045.9	976.8	933.5	899.0	882.7	872.2
50°	1010.8	924.6	869.5	831.9	812.8	792.0	790.4
52.5°	899.6	830.0	787.1	756.6	732.3	719.8	720.2
55°	756.1	701.0	670.7	647.5	628.3	618.8	614.8
57.5°	637.0	595.6	573.6	552.3	544.2	536.7	534.6
60°	562.9	534.9	514.2	497.4	485.4	483.0	482.2
62.5°	501.6	472.3	458.0	445.0	436.3	432.6	431.1
65°	413.6	392.0	379.2	368.9	365.7	360.1	359.3
67.5°	333.4	320.5	312.0	304.8	300.5	300.2	300.2
70°	284.2	277.0	269.9	265.9	263.5	261.9	261.9
72.5°	242.1	236.8	230.9	228.8	228.3	226.7	226.1
75°	184.4	178.8	179.6	175.7	172.5	168.5	166.1
77.5°	130.8	126.8	126.0	125.5	122.8	122.3	123.6
80°	101.4	97.4	96.6	97.4	96.6	94.2	94.2
82.5°	77.1	73.8	73.0	72.5	71.7	72.5	71.2
85°	41.5	39.9	39.9	39.9	41.5	40.7	39.9
87.5°	21.4	21.1	22.0	21.5	21.6	21.1	21.8
90°	33.7	35.4	36.6	37.2	37.8	38.3	38.9
92.5°	54.5	55.5	56.2	56.5	56.9	57.2	57.6
95°	101.2	102.0	102.5	102.5	102.5	102.5	102.5
97.5°	159.0	160.0	160.6	160.6	160.6	160.6	160.6
100°	200.2	200.7	201.0	201.0	201.0	201.0	201.0
102.5°	244.4	245.2	245.7	246.0	246.2	246.4	246.7
105°	311.3	312.1	313.0	313.8	314.7	315.6	316.4
107.5°	383.4	384.3	384.6	384.6	384.5	384.5	384.4
110°	430.1	429.6	429.7	430.6	431.4	432.3	433.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	482.4	482.2	482.3	482.4	482.6	482.8	483.0
115°	562.0	561.7	561.4	561.1	560.8	560.5	560.3
117.5°	638.0	637.0	636.2	635.6	635.1	634.5	633.9
120°	689.5	688.1	687.6	688.2	688.8	689.4	689.9
122.5°	742.8	741.8	740.8	739.7	738.7	737.7	736.6
125°	820.5	819.9	819.3	818.8	818.2	817.6	817.0
127.5°	894.4	893.8	893.3	892.9	892.4	891.9	891.5
130°	946.3	945.7	944.9	943.7	942.5	941.4	940.2
132.5°	995.1	994.5	994.0	993.5	993.0	992.6	992.1
135°	1068.2	1067.6	1066.9	1066.0	1065.2	1064.3	1063.4
137.5°	1138.8	1138.0	1137.7	1137.9	1138.1	1138.2	1138.4
140°	1185.8	1185.5	1185.2	1184.9	1184.6	1184.3	1184.1
142.5°	1230.1	1230.0	1229.9	1229.9	1229.8	1229.8	1229.7
145°	1296.0	1295.7	1295.2	1294.3	1293.4	1292.6	1291.7
147.5°	1356.1	1355.9	1355.6	1355.3	1355.0	1354.8	1354.5
150°	1394.1	1394.1	1394.0	1393.7	1393.4	1393.1	1392.9
152.5°	1430.5	1431.2	1431.1	1430.4	1429.6	1428.9	1428.1
155°	1480.6	1481.8	1481.8	1480.6	1479.5	1478.3	1477.2
157.5°	1524.1	1525.0	1524.9	1523.9	1522.9	1522.0	1521.0
160°	1551.1	1551.9	1551.6	1550.2	1548.8	1547.3	1545.9
162.5°	1576.0	1577.5	1577.6	1576.1	1574.7	1573.3	1571.8
165°	1608.1	1609.9	1610.2	1609.0	1607.8	1606.7	1605.5
167.5°	1635.1	1636.8	1636.8	1635.0	1633.2	1631.5	1629.7
170°	1649.6	1651.4	1651.2	1649.2	1647.2	1645.2	1643.2
172.5°	1660.7	1662.7	1662.6	1660.6	1658.6	1656.6	1654.6
175°	1672.5	1674.6	1674.6	1672.5	1670.5	1668.5	1666.5
177.5°	1678.6	1680.2	1680.1	1678.3	1676.4	1674.6	1672.7
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9

(END OF REPORT)