

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: P332486-940

Luminaire Tested: **S123RDIW-S1165D1535U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332486-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1165D1535U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9553.3 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

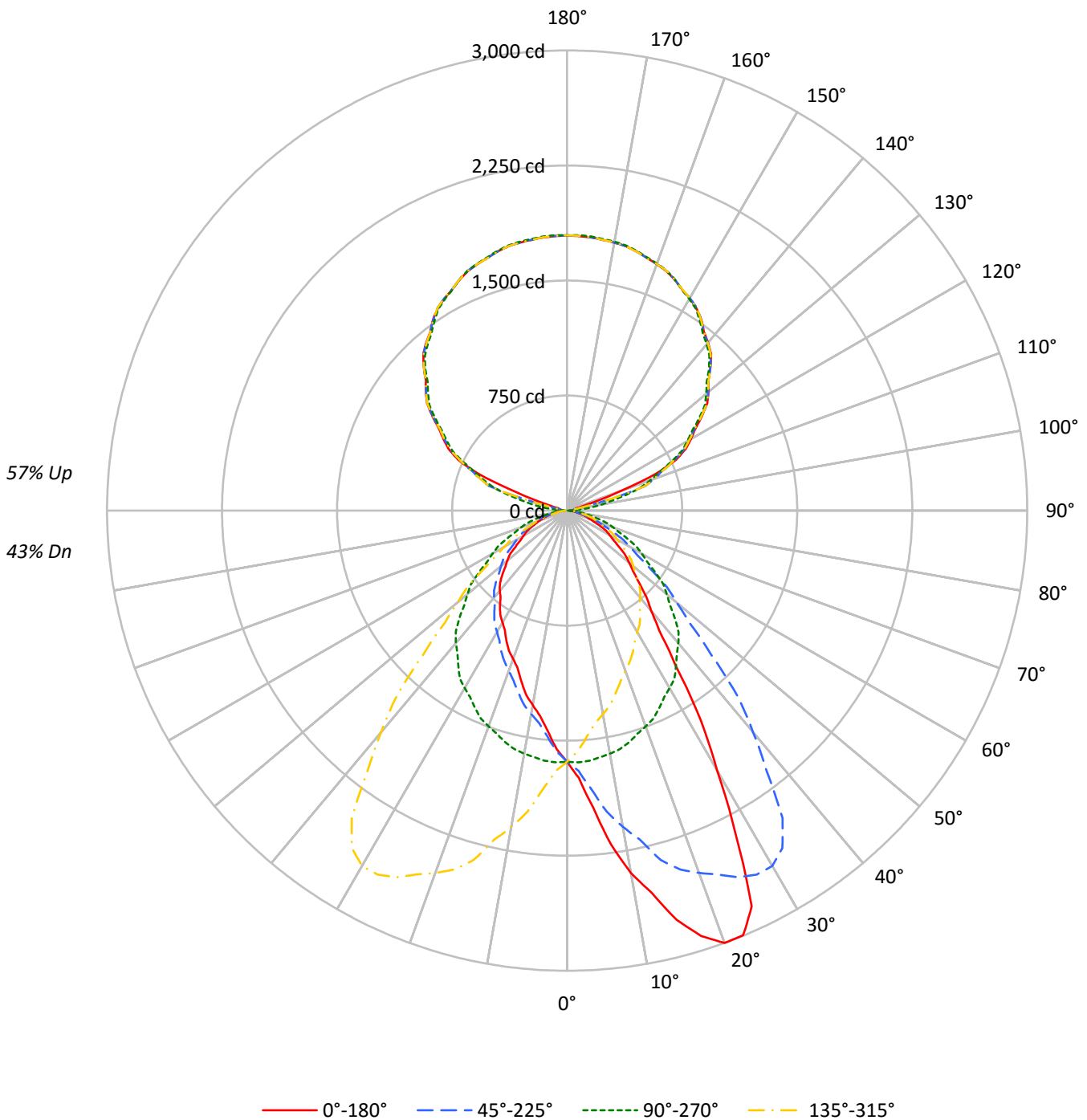
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43				
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	44	44	43	37				
2	88	81	76	71	81	75	70	66	62	59	55	50	48	46	40	38	37	32				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	27				
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24				
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	27	24	21				
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	27	24	22	19				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17				
8	54	42	35	30	50	39	32	28	33	28	24	28	24	21	22	20	18	15				
9	50	39	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14				
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17623	17623	17623	17623
5°	21007	17698	15584	17698
10°	26230	17596	14080	17596
15°	30788	17416	12840	17416
20°	34360	17148	11786	17148
25°	33812	16865	11137	16865
30°	24304	16604	10470	16604
35°	16227	16264	10038	16264
40°	11956	15855	9591	15855
45°	10029	15139	9155	15139
50°	8848	14200	8544	14200
55°	7760	13127	7707	13127
60°	6910	12099	7061	12099
65°	6069	10998	6569	10998
70°	4765	10014	5998	10014
75°	4196	8746	5481	8746
80°	3651	7426	5387	7426
85°	2939	5965	5718	5965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	1.7
10°-20°	503.0	5.3
20°-30°	790.2	8.3
30°-40°	824.4	8.6
40°-50°	705.6	7.4
50°-60°	537.8	5.6
60°-70°	344.7	3.6
70°-80°	165.8	1.7
80°-90°	48.9	0.5
90°-100°	65.2	0.7
100°-110°	310.9	3.3
110°-120°	746.8	7.8
120°-130°	951.0	10.0
130°-140°	1016.1	10.6
140°-150°	950.2	9.9
150°-160°	766.5	8.0
160°-170°	494.7	5.2
170°-180°	170.5	1.8
0°-30°	1454.2	15.2
0°-40°	2278.7	23.9
0°-60°	3522.0	36.9
0°-90°	4081.4	42.7
90°-120°	1123.0	11.8
90°-150°	4040.3	42.3
90°-180°	5472.0	57.3
0°-180°	9553.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1637	1637	1637	1637	1637	
5°	1944	1638	1442	1638	1944	201
15°	2763	1563	1152	1563	2763	783
25°	2847	1420	938	1420	2847	1224
35°	1235	1238	764	1238	1235	810
45°	659	994	601	994	659	518
55°	414	700	411	700	414	374
65°	238	432	258	432	238	234
75°	101	210	132	210	101	108
85°	24	48	46	48	24	28
90°	40	1	40	1	40	19
95°	51	81	51	81	51	42
105°	59	397	59	397	59	134
115°	784	745	784	745	784	724
125°	1072	1050	1072	1050	1072	957
135°	1321	1308	1321	1308	1321	1019
145°	1524	1509	1524	1509	1524	951
155°	1660	1662	1660	1662	1660	765
165°	1749	1753	1749	1753	1749	494
175°	1788	1794	1788	1794	1788	170
180°	1794	1794	1794	1794	1794	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1743.7	1746.0	1738.7	1737.6	1729.1	1726.9	1726.9	1715.1	1707.8	1698.4	1692.7
5°	1944.2	1955.4	1949.8	1937.2	1916.1	1911.2	1897.9	1876.9	1853.1	1823.6	1809.6
7.5°	2194.5	2209.8	2204.0	2184.4	2162.4	2144.7	2107.0	2072.2	2023.2	1980.3	1943.6
10°	2399.8	2383.6	2371.0	2352.1	2331.7	2298.8	2259.6	2205.6	2143.2	2094.2	2039.5
12.5°	2553.3	2550.7	2534.7	2515.2	2486.5	2455.2	2407.0	2341.3	2268.8	2197.9	2135.4
15°	2762.8	2767.0	2756.5	2736.1	2695.5	2640.1	2567.2	2539.9	2436.2	2359.1	2282.0
17.5°	2907.7	2906.9	2905.5	2877.3	2835.8	2796.4	2728.8	2656.9	2563.0	2454.4	2350.5
20°	2999.6	2992.7	2994.1	2962.5	2931.7	2886.1	2820.2	2715.8	2638.8	2513.3	2406.0
22.5°	2997.4	2996.1	3001.3	2990.5	2968.1	2933.2	2881.4	2793.2	2694.8	2568.2	2447.6
25°	2846.9	2841.3	2874.3	2883.3	2919.1	2925.3	2909.9	2861.6	2768.4	2638.0	2488.8
27.5°	2382.7	2379.5	2440.7	2517.2	2614.2	2689.6	2762.5	2797.7	2768.4	2675.0	2525.5
30°	1955.4	2021.2	2052.1	2162.8	2286.2	2433.4	2562.3	2684.9	2715.1	2674.5	2551.8
32.5°	1623.4	1681.0	1706.7	1801.8	1916.7	2089.1	2282.5	2456.2	2578.9	2609.9	2536.1
35°	1234.9	1235.6	1294.5	1336.5	1443.1	1620.4	1808.2	2040.9	2272.2	2447.4	2465.6
37.5°	985.4	988.9	1024.5	1066.4	1146.3	1240.1	1405.5	1598.9	1866.1	2135.1	2292.8
40°	850.9	857.1	883.8	925.1	982.6	1053.4	1182.3	1364.6	1587.4	1886.7	2131.3
42.5°	764.5	774.7	788.5	820.3	855.9	922.2	1026.4	1167.2	1369.9	1652.9	1935.1
45°	658.8	664.4	674.9	689.6	721.8	768.1	838.2	932.8	1101.1	1328.8	1611.2
47.5°	581.1	578.2	589.2	601.2	622.7	654.2	701.2	778.4	898.4	1081.1	1320.7
50°	528.4	527.7	535.5	544.6	564.9	588.0	626.6	684.7	780.1	931.5	1150.8
52.5°	479.1	481.8	487.2	498.6	513.3	532.0	566.6	608.5	690.4	821.0	1003.9
55°	413.5	415.6	423.3	429.6	440.1	459.1	480.8	515.9	571.9	663.0	813.7
57.5°	358.0	357.0	364.4	366.0	377.9	393.3	410.1	437.3	478.0	545.7	647.2
60°	321.0	318.9	325.2	330.1	336.4	349.0	363.0	389.7	422.0	471.7	558.6
62.5°	287.3	286.3	291.0	295.9	301.1	312.5	324.3	344.8	370.3	412.2	481.2
65°	238.3	240.4	242.5	244.6	247.4	254.4	265.6	279.6	297.2	326.6	376.4
67.5°	187.3	189.4	190.1	194.4	200.5	204.8	211.7	224.2	236.3	261.2	289.4
70°	151.4	150.7	151.4	153.5	161.2	168.9	178.0	187.2	194.8	212.3	236.2
72.5°	130.1	128.9	130.6	131.1	134.8	137.0	142.7	151.2	161.2	173.1	190.2
75°	100.9	100.9	100.9	100.9	103.7	105.1	107.3	109.3	112.8	118.4	131.1
77.5°	74.5	74.7	75.7	76.4	77.0	77.8	79.1	81.1	82.4	85.3	90.9
80°	58.9	59.6	58.9	59.6	59.6	61.0	61.7	63.8	64.5	67.9	70.1
82.5°	44.3	43.9	44.3	45.0	45.0	46.4	46.5	48.1	48.2	50.0	52.2
85°	23.8	22.5	23.8	23.1	24.5	23.1	23.8	25.2	25.2	25.9	28.7
87.5°	13.6	14.6	13.4	13.8	13.7	14.1	13.8	13.6	14.4	13.6	13.5
90°	39.9	39.4	38.8	38.3	37.6	36.7	35.6	34.3	33.2	32.0	28.2
92.5°	44.2	43.9	43.5	43.2	42.8	41.7	39.9	37.9	36.0	34.2	31.2
95°	50.6	50.6	50.6	50.6	50.6	49.6	47.5	45.5	43.4	41.3	38.1
97.5°	54.9	54.7	54.3	54.0	53.8	52.4	50.0	47.7	45.3	42.9	64.3
100°	56.0	55.7	55.4	55.1	54.8	53.5	51.1	48.7	46.4	44.0	90.2
102.5°	57.1	56.5	56.0	55.5	54.9	58.3	65.7	73.0	80.3	87.7	138.2
105°	58.7	58.1	57.5	56.9	56.3	82.2	134.6	187.1	239.5	291.9	318.6
107.5°	184.2	223.7	263.2	302.8	342.3	381.3	419.7	458.2	496.7	535.1	530.9
110°	366.6	408.9	451.3	493.7	536.0	562.1	571.9	581.7	591.5	601.2	598.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	628.9	637.9	646.8	655.8	664.8	669.1	669.0	668.8	668.6	668.4	665.1
115°	783.9	782.7	781.5	780.3	779.1	777.0	774.1	771.2	768.1	765.2	762.5
117.5°	870.8	870.6	870.3	870.0	869.9	868.5	866.1	863.8	861.4	859.1	857.6
120°	930.5	930.5	930.5	930.5	930.5	929.3	926.9	924.6	922.2	919.8	918.9
122.5°	989.2	988.9	988.6	988.5	988.2	987.3	985.6	983.9	982.3	980.6	979.5
125°	1071.8	1071.2	1070.6	1070.1	1069.4	1068.8	1068.3	1067.6	1067.1	1066.5	1065.3
127.5°	1151.3	1151.8	1152.4	1153.1	1153.6	1153.4	1152.5	1151.6	1150.6	1149.7	1148.3
130°	1202.5	1203.0	1203.6	1204.3	1204.8	1204.5	1203.4	1202.1	1201.0	1199.8	1198.6
132.5°	1249.4	1250.2	1251.1	1251.9	1252.7	1252.5	1251.3	1250.2	1248.9	1247.8	1246.8
135°	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6	1323.7	1322.9	1322.0	1321.1	1319.9
137.5°	1388.6	1389.1	1389.7	1390.4	1390.9	1390.5	1389.1	1387.7	1386.3	1384.8	1384.2
140°	1429.1	1429.7	1430.3	1430.8	1431.5	1431.1	1429.9	1428.8	1427.6	1426.4	1425.5
142.5°	1466.4	1467.2	1468.0	1468.9	1469.7	1469.6	1468.7	1467.8	1466.8	1465.9	1465.0
145°	1523.8	1523.8	1523.8	1523.8	1523.8	1523.4	1522.9	1522.2	1521.6	1521.1	1520.5
147.5°	1566.4	1567.7	1569.1	1570.5	1571.8	1572.3	1571.6	1571.0	1570.5	1569.9	1569.2
150°	1598.4	1599.3	1600.2	1601.1	1602.0	1602.0	1601.5	1600.9	1600.3	1599.7	1599.1
152.5°	1624.0	1625.3	1626.7	1628.1	1629.4	1629.6	1628.5	1627.5	1626.4	1625.3	1625.0
155°	1659.7	1661.4	1663.2	1665.0	1666.8	1667.0	1665.4	1664.0	1662.5	1661.0	1660.7
157.5°	1689.8	1692.1	1694.4	1696.7	1699.1	1699.3	1697.5	1695.8	1694.0	1692.2	1692.6
160°	1709.1	1711.1	1713.2	1715.2	1717.3	1717.4	1715.7	1714.0	1712.2	1710.4	1710.7
162.5°	1727.2	1729.0	1730.8	1732.7	1734.5	1734.4	1732.4	1730.4	1728.4	1726.4	1726.6
165°	1749.0	1751.1	1753.2	1755.2	1757.3	1757.2	1754.8	1752.4	1750.1	1747.7	1748.0
167.5°	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2	1771.8	1769.5	1767.1	1764.8	1764.8
170°	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9	1781.5	1779.1	1776.7	1774.3	1774.3
172.5°	1779.7	1782.3	1784.9	1787.5	1790.1	1790.2	1787.9	1785.5	1783.2	1780.7	1780.5
175°	1787.7	1790.0	1792.4	1794.7	1797.2	1797.3	1795.2	1793.1	1791.1	1789.0	1788.7
177.5°	1790.1	1792.4	1794.8	1797.2	1799.6	1799.8	1797.9	1796.0	1794.1	1792.2	1792.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1690.5	1688.8	1681.0	1672.0	1660.2	1652.3	1646.2	1642.8	1632.7	1620.4	1611.9
5°	1794.9	1773.9	1751.4	1724.1	1698.9	1672.9	1656.8	1637.9	1614.8	1588.9	1570.7
7.5°	1906.7	1865.5	1821.1	1775.3	1730.0	1689.3	1653.5	1622.7	1585.9	1548.7	1522.7
10°	1992.5	1932.2	1869.9	1806.1	1747.9	1693.3	1651.2	1609.9	1565.8	1523.0	1490.8
12.5°	2070.5	1991.1	1919.2	1840.8	1766.5	1701.1	1640.6	1591.9	1538.8	1493.3	1456.5
15°	2169.2	2087.9	2000.9	1881.8	1783.0	1700.3	1626.7	1562.9	1498.4	1442.3	1406.6
17.5°	2261.4	2139.0	2022.2	1922.9	1794.5	1691.1	1601.3	1525.1	1454.3	1394.8	1350.9
20°	2299.5	2181.0	2054.2	1927.3	1801.2	1685.6	1581.1	1497.0	1423.4	1356.1	1315.5
22.5°	2322.5	2188.3	2054.8	1918.4	1784.4	1664.3	1560.9	1468.5	1388.7	1324.7	1274.6
25°	2349.3	2189.5	2042.3	1907.7	1771.0	1640.7	1518.0	1420.0	1333.7	1265.8	1212.5
27.5°	2367.0	2179.0	2005.0	1855.5	1716.8	1587.0	1474.6	1370.6	1283.2	1211.2	1154.1
30°	2370.3	2170.5	1976.4	1814.5	1673.7	1554.5	1435.4	1335.9	1243.3	1166.9	1113.7
32.5°	2374.8	2149.8	1937.7	1765.8	1621.5	1503.5	1395.5	1300.5	1205.8	1130.5	1076.1
35°	2356.3	2138.3	1879.0	1681.3	1537.0	1422.7	1325.3	1237.7	1144.5	1071.6	1016.3
37.5°	2276.6	2092.8	1818.2	1586.4	1435.4	1329.5	1250.2	1173.8	1088.3	1009.7	957.5
40°	2196.5	2047.9	1771.0	1528.6	1370.9	1262.2	1190.8	1128.4	1045.7	972.1	916.1
42.5°	2077.1	1986.8	1726.2	1468.0	1298.0	1193.3	1133.0	1074.5	1001.9	927.2	874.5
45°	1858.0	1869.9	1634.4	1371.5	1197.0	1091.9	1035.2	994.5	930.1	868.3	814.4
47.5°	1583.2	1694.7	1526.6	1268.8	1090.7	992.0	942.4	906.9	863.4	802.9	753.7
50°	1403.8	1562.9	1440.3	1199.9	1024.0	925.9	876.7	848.0	810.2	762.5	715.6
52.5°	1238.4	1409.3	1336.0	1123.0	951.6	861.9	814.0	790.3	760.3	715.4	673.0
55°	1010.0	1183.0	1166.3	1007.1	843.1	762.5	726.1	699.5	679.1	645.5	611.9
57.5°	816.9	981.1	989.7	878.2	747.5	667.9	636.5	616.4	603.2	577.8	546.7
60°	695.3	846.0	875.4	791.3	679.1	609.0	578.2	562.0	551.6	531.3	507.4
62.5°	594.3	722.6	755.9	695.4	613.5	548.0	523.8	508.3	501.1	483.6	462.5
65°	454.9	561.4	593.6	560.0	517.2	464.7	445.1	431.8	425.4	415.6	400.2
67.5°	342.1	419.6	455.0	431.3	415.9	382.6	370.1	363.0	357.4	350.7	337.8
70°	274.7	332.2	368.6	362.3	349.7	332.2	323.1	318.2	312.5	307.0	295.8
72.5°	220.9	260.5	294.6	297.8	287.5	284.0	276.0	273.9	270.5	263.8	257.6
75°	146.5	173.8	197.6	206.8	211.0	214.5	211.0	210.3	209.6	203.9	200.5
77.5°	96.0	110.8	125.7	141.3	147.8	152.7	153.7	156.3	154.4	151.5	149.8
80°	73.6	77.1	87.6	100.9	111.5	115.7	118.4	119.8	119.1	118.4	115.7
82.5°	53.4	56.4	61.3	70.6	79.5	86.5	88.2	87.9	89.4	89.9	87.6
85°	28.7	29.4	30.9	32.3	37.2	44.9	47.0	48.3	49.8	49.8	45.6
87.5°	13.8	12.5	12.8	12.1	13.3	13.2	16.0	18.2	19.4	17.7	18.3
90°	24.3	20.4	16.6	13.2	10.3	7.2	4.3	1.3	4.3	7.2	10.3
92.5°	28.4	25.4	22.5	21.5	22.3	23.1	24.0	24.8	24.0	23.1	22.3
95°	34.8	31.6	28.3	32.7	44.9	57.1	69.2	81.3	69.2	57.1	44.9
97.5°	85.6	106.9	128.2	141.6	147.0	152.6	158.0	163.5	158.0	152.6	147.0
100°	136.4	182.6	228.8	249.0	243.1	237.1	231.2	225.3	231.2	237.1	243.1
102.5°	188.7	239.2	289.6	312.7	308.4	304.3	300.0	295.7	300.0	304.3	308.4
105°	345.3	371.9	398.6	410.3	407.1	403.8	400.6	397.3	400.6	403.8	407.1
107.5°	526.7	522.5	518.3	514.9	512.3	509.6	507.0	504.4	507.0	509.6	512.3
110°	594.7	591.5	588.2	585.4	583.0	580.6	578.3	575.9	578.3	580.6	583.0



TEST NUMBER: P332486-940

CATALOG NUMBER: S123RDIW-S1165D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	661.9	658.6	655.4	652.6	650.6	648.5	646.3	644.2	646.3	648.5	650.6
115°	759.8	757.2	754.6	752.3	750.6	748.8	747.0	745.2	747.0	748.8	750.6
117.5°	856.3	855.0	853.6	851.9	849.6	847.4	845.3	843.0	845.3	847.4	849.6
120°	918.0	917.1	916.3	914.5	911.9	909.2	906.5	903.8	906.5	909.2	911.9
122.5°	978.4	977.2	976.2	974.5	972.2	970.1	967.9	965.7	967.9	970.1	972.2
125°	1064.1	1062.9	1061.8	1060.0	1057.6	1055.3	1052.8	1050.4	1052.8	1055.3	1057.6
127.5°	1146.8	1145.4	1144.0	1142.1	1139.7	1137.4	1135.0	1132.6	1135.0	1137.4	1139.7
130°	1197.4	1196.2	1195.1	1193.3	1190.9	1188.6	1186.2	1183.7	1186.2	1188.6	1190.9
132.5°	1245.9	1244.9	1244.0	1242.3	1239.9	1237.6	1235.2	1232.9	1235.2	1237.6	1239.9
135°	1318.8	1317.5	1316.3	1314.9	1313.1	1311.3	1309.6	1307.8	1309.6	1311.3	1313.1
137.5°	1383.5	1382.9	1382.2	1380.7	1378.5	1376.3	1374.0	1371.7	1374.0	1376.3	1378.5
140°	1424.6	1423.7	1422.8	1421.6	1419.8	1418.0	1416.2	1414.4	1416.2	1418.0	1419.8
142.5°	1464.1	1463.2	1462.3	1461.0	1459.2	1457.4	1455.6	1453.8	1455.6	1457.4	1459.2
145°	1519.8	1519.3	1518.7	1517.3	1515.3	1513.2	1511.1	1509.0	1511.1	1513.2	1515.3
147.5°	1568.7	1568.1	1567.4	1566.5	1565.1	1563.8	1562.5	1561.0	1562.5	1563.8	1565.1
150°	1598.6	1597.9	1597.3	1596.6	1595.7	1594.8	1593.9	1593.0	1593.9	1594.8	1595.7
152.5°	1624.6	1624.3	1623.9	1623.5	1623.1	1622.6	1622.3	1621.8	1622.3	1622.6	1623.1
155°	1660.5	1660.2	1659.8	1660.0	1660.6	1661.2	1661.8	1662.3	1661.8	1661.2	1660.6
157.5°	1692.8	1693.1	1693.4	1693.6	1693.6	1693.7	1693.8	1693.8	1693.8	1693.7	1693.6
160°	1710.9	1711.3	1711.5	1711.8	1712.2	1712.4	1712.7	1713.1	1712.7	1712.4	1712.2
162.5°	1727.0	1727.2	1727.5	1728.0	1728.8	1729.7	1730.4	1731.2	1730.4	1729.7	1728.8
165°	1748.3	1748.6	1748.9	1749.4	1750.3	1751.2	1752.1	1753.0	1752.1	1751.2	1750.3
167.5°	1764.8	1764.8	1764.8	1765.3	1766.6	1767.7	1768.9	1770.0	1768.9	1767.7	1766.6
170°	1774.3	1774.3	1774.3	1775.0	1776.1	1777.3	1778.5	1779.7	1778.5	1777.3	1776.1
172.5°	1780.3	1780.0	1779.8	1780.4	1781.8	1783.2	1784.7	1786.1	1784.7	1783.2	1781.8
175°	1788.4	1788.1	1787.8	1788.4	1789.9	1791.4	1792.9	1794.3	1792.9	1791.4	1789.9
177.5°	1791.7	1791.5	1791.3	1791.7	1793.0	1794.1	1795.3	1796.4	1795.3	1794.1	1793.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1609.2	1601.9	1596.9	1585.6	1578.3	1570.5	1562.6	1567.7	1567.1	1566.6	1566.6
5°	1555.2	1539.1	1524.4	1505.5	1493.5	1478.8	1467.6	1466.2	1469.0	1459.2	1453.6
7.5°	1501.6	1479.6	1458.7	1437.9	1415.8	1398.1	1387.0	1381.8	1374.7	1368.6	1362.4
10°	1464.1	1438.2	1417.8	1391.9	1368.1	1347.0	1333.7	1324.6	1319.7	1314.8	1305.7
12.5°	1425.4	1400.1	1374.1	1344.8	1322.1	1297.7	1287.7	1277.6	1268.1	1262.7	1250.2
15°	1368.8	1335.9	1308.5	1277.6	1252.4	1228.6	1214.6	1194.3	1191.4	1184.5	1171.8
17.5°	1312.0	1276.2	1238.6	1215.7	1187.2	1162.4	1141.1	1134.3	1114.2	1106.6	1095.7
20°	1267.1	1234.2	1205.5	1175.4	1134.0	1110.9	1094.0	1084.9	1068.8	1059.0	1052.0
22.5°	1228.4	1195.0	1161.7	1126.6	1092.5	1066.6	1054.3	1040.1	1031.3	1017.5	1010.0
25°	1173.2	1136.8	1096.8	1059.0	1034.5	1014.9	995.2	982.6	970.0	963.7	949.7
27.5°	1109.0	1070.9	1033.6	1004.9	974.7	955.4	937.6	926.4	911.2	900.6	892.9
30°	1073.7	1028.9	996.6	970.7	932.1	913.9	900.6	886.6	875.4	864.2	856.5
32.5°	1032.8	991.8	961.3	929.2	899.6	879.7	862.5	850.2	840.6	829.9	822.2
35°	968.6	934.2	902.7	870.5	848.7	828.4	808.1	797.5	788.5	778.6	771.7
37.5°	910.5	878.4	848.5	817.9	790.9	774.5	758.0	750.0	737.7	731.1	724.0
40°	874.7	843.1	810.9	781.5	753.4	740.8	726.1	714.2	702.9	698.0	690.4
42.5°	835.4	803.9	776.7	745.0	722.0	704.9	691.3	678.3	669.9	662.7	658.4
45°	777.2	749.2	722.6	691.1	669.3	654.6	639.2	627.2	619.6	614.7	606.9
47.5°	720.8	692.8	665.7	638.2	617.2	600.4	585.0	576.7	566.4	560.4	555.2
50°	679.8	654.6	625.9	600.7	579.6	562.8	550.2	539.7	530.6	522.8	519.3
52.5°	642.3	615.4	590.6	566.9	544.8	525.8	514.2	503.2	496.3	487.5	483.5
55°	580.3	554.4	533.3	510.2	488.5	472.3	458.3	448.5	441.6	431.8	426.1
57.5°	522.1	498.9	473.8	453.7	431.3	417.7	406.1	392.8	384.2	376.5	371.0
60°	482.9	456.3	434.5	415.6	396.0	378.4	367.9	357.4	348.3	340.6	335.7
62.5°	441.9	418.7	398.1	377.5	359.5	344.3	332.1	323.2	315.2	310.3	305.4
65°	379.2	361.0	339.9	323.1	306.3	295.1	285.3	277.5	272.0	268.4	264.2
67.5°	321.4	303.7	285.3	268.9	257.6	249.1	242.6	236.0	233.3	228.7	226.0
70°	283.8	265.6	249.5	236.9	225.7	219.4	215.2	210.3	207.4	201.9	199.0
72.5°	242.9	229.7	218.1	207.8	198.8	193.1	187.7	181.6	177.2	171.0	168.2
75°	191.4	179.4	170.3	163.3	157.7	150.0	142.3	136.0	133.8	131.8	131.1
77.5°	141.7	134.1	127.5	121.6	114.7	109.1	107.4	105.9	105.6	104.4	104.4
80°	111.5	104.4	99.5	92.5	88.3	88.3	88.3	86.9	87.6	87.6	87.6
82.5°	82.8	76.4	73.7	71.2	70.4	70.9	70.9	71.2	70.8	71.9	71.3
85°	42.7	43.4	44.9	44.1	44.9	44.9	46.3	45.6	46.3	44.9	46.3
87.5°	18.4	20.7	22.0	23.4	24.7	24.9	25.7	25.9	26.8	26.9	27.1
90°	13.2	16.6	20.4	24.3	28.2	32.0	33.2	34.3	35.6	36.7	37.6
92.5°	21.5	22.5	25.4	28.4	31.2	34.2	36.0	37.9	39.9	41.7	42.8
95°	32.7	28.3	31.6	34.8	38.1	41.3	43.4	45.5	47.5	49.6	50.6
97.5°	141.6	128.2	106.9	85.6	64.3	42.9	45.3	47.7	50.0	52.4	53.8
100°	249.0	228.8	182.6	136.4	90.2	44.0	46.4	48.7	51.1	53.5	54.8
102.5°	312.7	289.6	239.2	188.7	138.2	87.7	80.3	73.0	65.7	58.3	54.9
105°	410.3	398.6	371.9	345.3	318.6	291.9	239.5	187.1	134.6	82.2	56.3
107.5°	514.9	518.3	522.5	526.7	530.9	535.1	496.7	458.2	419.7	381.3	342.3
110°	585.4	588.2	591.5	594.7	598.0	601.2	591.5	581.7	571.9	562.1	536.0



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CATALOG NUMBER: S123RDIW-S1165D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	652.6	655.4	658.6	661.9	665.1	668.4	668.6	668.8	669.0	669.1	664.8
115°	752.3	754.6	757.2	759.8	762.5	765.2	768.1	771.2	774.1	777.0	779.1
117.5°	851.9	853.6	855.0	856.3	857.6	859.1	861.4	863.8	866.1	868.5	869.9
120°	914.5	916.3	917.1	918.0	918.9	919.8	922.2	924.6	926.9	929.3	930.5
122.5°	974.5	976.2	977.2	978.4	979.5	980.6	982.3	983.9	985.6	987.3	988.2
125°	1060.0	1061.8	1062.9	1064.1	1065.3	1066.5	1067.1	1067.6	1068.3	1068.8	1069.4
127.5°	1142.1	1144.0	1145.4	1146.8	1148.3	1149.7	1150.6	1151.6	1152.5	1153.4	1153.6
130°	1193.3	1195.1	1196.2	1197.4	1198.6	1199.8	1201.0	1202.1	1203.4	1204.5	1204.8
132.5°	1242.3	1244.0	1244.9	1245.9	1246.8	1247.8	1248.9	1250.2	1251.3	1252.5	1252.7
135°	1314.9	1316.3	1317.5	1318.8	1319.9	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6
137.5°	1380.7	1382.2	1382.9	1383.5	1384.2	1384.8	1386.3	1387.7	1389.1	1390.5	1390.9
140°	1421.6	1422.8	1423.7	1424.6	1425.5	1426.4	1427.6	1428.8	1429.9	1431.1	1431.5
142.5°	1461.0	1462.3	1463.2	1464.1	1465.0	1465.9	1466.8	1467.8	1468.7	1469.6	1469.7
145°	1517.3	1518.7	1519.3	1519.8	1520.5	1521.1	1521.6	1522.2	1522.9	1523.4	1523.8
147.5°	1566.5	1567.4	1568.1	1568.7	1569.2	1569.9	1570.5	1571.0	1571.6	1572.3	1571.8
150°	1596.6	1597.3	1597.9	1598.6	1599.1	1599.7	1600.3	1600.9	1601.5	1602.0	1602.0
152.5°	1623.5	1623.9	1624.3	1624.6	1625.0	1625.3	1626.4	1627.5	1628.5	1629.6	1629.4
155°	1660.0	1659.8	1660.2	1660.5	1660.7	1661.0	1662.5	1664.0	1665.4	1667.0	1666.8
157.5°	1693.6	1693.4	1693.1	1692.8	1692.6	1692.2	1694.0	1695.8	1697.5	1699.3	1699.1
160°	1711.8	1711.5	1711.3	1710.9	1710.7	1710.4	1712.2	1714.0	1715.7	1717.4	1717.3
162.5°	1728.0	1727.5	1727.2	1727.0	1726.6	1726.4	1728.4	1730.4	1732.4	1734.4	1734.5
165°	1749.4	1748.9	1748.6	1748.3	1748.0	1747.7	1750.1	1752.4	1754.8	1757.2	1757.3
167.5°	1765.3	1764.8	1764.8	1764.8	1764.8	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2
170°	1775.0	1774.3	1774.3	1774.3	1774.3	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9
172.5°	1780.4	1779.8	1780.0	1780.3	1780.5	1780.7	1783.2	1785.5	1787.9	1790.2	1790.1
175°	1788.4	1787.8	1788.1	1788.4	1788.7	1789.0	1791.1	1793.1	1795.2	1797.3	1797.2
177.5°	1791.7	1791.3	1791.5	1791.7	1792.0	1792.2	1794.1	1796.0	1797.9	1799.8	1799.6
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



TEST NUMBER: P332486-940

CATALOG NUMBER: S123RDIW-S1165D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1559.9	1559.2	1559.9	1557.6	1559.9	1559.2	1559.9	1566.6	1566.6	1567.1	1567.7
5°	1451.4	1450.8	1448.7	1442.3	1448.7	1450.8	1451.4	1453.6	1459.2	1469.0	1466.2
7.5°	1356.8	1355.8	1349.7	1349.9	1349.7	1355.8	1356.8	1362.4	1368.6	1374.7	1381.8
10°	1300.8	1301.5	1293.1	1288.2	1293.1	1301.5	1300.8	1305.7	1314.8	1319.7	1324.6
12.5°	1246.4	1243.2	1236.4	1231.0	1236.4	1243.2	1246.4	1250.2	1262.7	1268.1	1277.6
15°	1174.7	1167.6	1150.8	1152.2	1150.8	1167.6	1174.7	1171.8	1184.5	1191.4	1194.3
17.5°	1090.1	1084.9	1084.7	1074.9	1084.7	1084.9	1090.1	1095.7	1106.6	1114.2	1134.3
20°	1040.8	1037.2	1038.7	1028.9	1038.7	1037.2	1040.8	1052.0	1059.0	1068.8	1084.9
22.5°	1002.1	998.5	992.7	989.6	992.7	998.5	1002.1	1010.0	1017.5	1031.3	1040.1
25°	945.5	939.9	934.2	937.7	934.2	939.9	945.5	949.7	963.7	970.0	982.6
27.5°	888.9	884.7	879.0	878.3	879.0	884.7	888.9	892.9	900.6	911.2	926.4
30°	852.9	848.7	846.0	842.4	846.0	848.7	852.9	856.5	864.2	875.4	886.6
32.5°	816.5	815.6	810.7	809.9	810.7	815.6	816.5	822.2	829.9	840.6	850.2
35°	768.8	764.6	763.2	763.9	763.2	764.6	768.8	771.7	778.6	788.5	797.5
37.5°	723.5	717.9	715.4	712.9	715.4	717.9	723.5	724.0	731.1	737.7	750.0
40°	691.1	685.5	684.0	682.6	684.0	685.5	691.1	690.4	698.0	702.9	714.2
42.5°	654.6	652.4	651.5	649.0	651.5	652.4	654.6	658.4	662.7	669.9	678.3
45°	604.8	604.1	599.9	601.4	599.9	604.1	604.8	606.9	614.7	619.6	627.2
47.5°	552.4	549.3	546.4	548.3	546.4	549.3	552.4	555.2	560.4	566.4	576.7
50°	516.6	515.1	508.8	510.2	508.8	515.1	516.6	519.3	522.8	530.6	539.7
52.5°	480.6	475.3	473.0	472.1	473.0	475.3	480.6	483.5	487.5	496.3	503.2
55°	421.2	414.9	412.1	410.7	412.1	414.9	421.2	426.1	431.8	441.6	448.5
57.5°	362.9	361.2	359.0	360.5	359.0	361.2	362.9	371.0	376.5	384.2	392.8
60°	328.7	328.7	328.7	328.0	328.7	328.7	328.7	335.7	340.6	348.3	357.4
62.5°	302.4	300.7	300.1	301.1	300.1	300.7	302.4	305.4	310.3	315.2	323.2
65°	262.2	261.4	258.6	257.9	258.6	261.4	262.2	264.2	268.4	272.0	277.5
67.5°	224.2	221.6	220.8	219.8	220.8	221.6	224.2	226.0	228.7	233.3	236.0
70°	195.6	194.1	189.9	190.6	189.9	194.1	195.6	199.0	201.9	207.4	210.3
72.5°	164.7	163.3	162.5	161.5	162.5	163.3	164.7	168.2	171.0	177.2	181.6
75°	130.4	129.7	128.9	131.8	128.9	129.7	130.4	131.1	131.8	133.8	136.0
77.5°	104.4	104.4	104.9	103.7	104.9	104.4	104.4	104.4	104.4	105.6	105.9
80°	87.6	87.6	86.9	86.9	86.9	87.6	87.6	87.6	87.6	87.6	86.9
82.5°	70.3	70.8	71.2	70.1	71.2	70.8	70.3	71.3	71.9	70.8	71.2
85°	46.3	45.6	47.0	46.3	47.0	45.6	46.3	46.3	44.9	46.3	45.6
87.5°	28.4	27.4	27.5	28.2	27.5	27.4	28.4	27.1	26.9	26.8	25.9
90°	38.3	38.8	39.4	39.9	39.4	38.8	38.3	37.6	36.7	35.6	34.3
92.5°	43.2	43.5	43.9	44.2	43.9	43.5	43.2	42.8	41.7	39.9	37.9
95°	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	49.6	47.5	45.5
97.5°	54.0	54.3	54.7	54.9	54.7	54.3	54.0	53.8	52.4	50.0	47.7
100°	55.1	55.4	55.7	56.0	55.7	55.4	55.1	54.8	53.5	51.1	48.7
102.5°	55.5	56.0	56.5	57.1	56.5	56.0	55.5	54.9	58.3	65.7	73.0
105°	56.9	57.5	58.1	58.7	58.1	57.5	56.9	56.3	82.2	134.6	187.1
107.5°	302.8	263.2	223.7	184.2	223.7	263.2	302.8	342.3	381.3	419.7	458.2
110°	493.7	451.3	408.9	366.6	408.9	451.3	493.7	536.0	562.1	571.9	581.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	655.8	646.8	637.9	628.9	637.9	646.8	655.8	664.8	669.1	669.0	668.8
115°	780.3	781.5	782.7	783.9	782.7	781.5	780.3	779.1	777.0	774.1	771.2
117.5°	870.0	870.3	870.6	870.8	870.6	870.3	870.0	869.9	868.5	866.1	863.8
120°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	929.3	926.9	924.6
122.5°	988.5	988.6	988.9	989.2	988.9	988.6	988.5	988.2	987.3	985.6	983.9
125°	1070.1	1070.6	1071.2	1071.8	1071.2	1070.6	1070.1	1069.4	1068.8	1068.3	1067.6
127.5°	1153.1	1152.4	1151.8	1151.3	1151.8	1152.4	1153.1	1153.6	1153.4	1152.5	1151.6
130°	1204.3	1203.6	1203.0	1202.5	1203.0	1203.6	1204.3	1204.8	1204.5	1203.4	1202.1
132.5°	1251.9	1251.1	1250.2	1249.4	1250.2	1251.1	1251.9	1252.7	1252.5	1251.3	1250.2
135°	1323.7	1322.9	1322.0	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6	1323.7	1322.9
137.5°	1390.4	1389.7	1389.1	1388.6	1389.1	1389.7	1390.4	1390.9	1390.5	1389.1	1387.7
140°	1430.8	1430.3	1429.7	1429.1	1429.7	1430.3	1430.8	1431.5	1431.1	1429.9	1428.8
142.5°	1468.9	1468.0	1467.2	1466.4	1467.2	1468.0	1468.9	1469.7	1469.6	1468.7	1467.8
145°	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.4	1522.9	1522.2
147.5°	1570.5	1569.1	1567.7	1566.4	1567.7	1569.1	1570.5	1571.8	1572.3	1571.6	1571.0
150°	1601.1	1600.2	1599.3	1598.4	1599.3	1600.2	1601.1	1602.0	1602.0	1601.5	1600.9
152.5°	1628.1	1626.7	1625.3	1624.0	1625.3	1626.7	1628.1	1629.4	1629.6	1628.5	1627.5
155°	1665.0	1663.2	1661.4	1659.7	1661.4	1663.2	1665.0	1666.8	1667.0	1665.4	1664.0
157.5°	1696.7	1694.4	1692.1	1689.8	1692.1	1694.4	1696.7	1699.1	1699.3	1697.5	1695.8
160°	1715.2	1713.2	1711.1	1709.1	1711.1	1713.2	1715.2	1717.3	1717.4	1715.7	1714.0
162.5°	1732.7	1730.8	1729.0	1727.2	1729.0	1730.8	1732.7	1734.5	1734.4	1732.4	1730.4
165°	1755.2	1753.2	1751.1	1749.0	1751.1	1753.2	1755.2	1757.3	1757.2	1754.8	1752.4
167.5°	1771.8	1769.5	1767.1	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2	1771.8	1769.5
170°	1781.5	1779.1	1776.7	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9	1781.5	1779.1
172.5°	1787.5	1784.9	1782.3	1779.7	1782.3	1784.9	1787.5	1790.1	1790.2	1787.9	1785.5
175°	1794.7	1792.4	1790.0	1787.7	1790.0	1792.4	1794.7	1797.2	1797.3	1795.2	1793.1
177.5°	1797.2	1794.8	1792.4	1790.1	1792.4	1794.8	1797.2	1799.6	1799.8	1797.9	1796.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1562.6	1570.5	1578.3	1585.6	1596.9	1601.9	1609.2	1611.9	1620.4	1632.7	1642.8
5°	1467.6	1478.8	1493.5	1505.5	1524.4	1539.1	1555.2	1570.7	1588.9	1614.8	1637.9
7.5°	1387.0	1398.1	1415.8	1437.9	1458.7	1479.6	1501.6	1522.7	1548.7	1585.9	1622.7
10°	1333.7	1347.0	1368.1	1391.9	1417.8	1438.2	1464.1	1490.8	1523.0	1565.8	1609.9
12.5°	1287.7	1297.7	1322.1	1344.8	1374.1	1400.1	1425.4	1456.5	1493.3	1538.8	1591.9
15°	1214.6	1228.6	1252.4	1277.6	1308.5	1335.9	1368.8	1406.6	1442.3	1498.4	1562.9
17.5°	1141.1	1162.4	1187.2	1215.7	1238.6	1276.2	1312.0	1350.9	1394.8	1454.3	1525.1
20°	1094.0	1110.9	1134.0	1175.4	1205.5	1234.2	1267.1	1315.5	1356.1	1423.4	1497.0
22.5°	1054.3	1066.6	1092.5	1126.6	1161.7	1195.0	1228.4	1274.6	1324.7	1388.7	1468.5
25°	995.2	1014.9	1034.5	1059.0	1096.8	1136.8	1173.2	1212.5	1265.8	1333.7	1420.0
27.5°	937.6	955.4	974.7	1004.9	1033.6	1070.9	1109.0	1154.1	1211.2	1283.2	1370.6
30°	900.6	913.9	932.1	970.7	996.6	1028.9	1073.7	1113.7	1166.9	1243.3	1335.9
32.5°	862.5	879.7	899.6	929.2	961.3	991.8	1032.8	1076.1	1130.5	1205.8	1300.5
35°	808.1	828.4	848.7	870.5	902.7	934.2	968.6	1016.3	1071.6	1144.5	1237.7
37.5°	758.0	774.5	790.9	817.9	848.5	878.4	910.5	957.5	1009.7	1088.3	1173.8
40°	726.1	740.8	753.4	781.5	810.9	843.1	874.7	916.1	972.1	1045.7	1128.4
42.5°	691.3	704.9	722.0	745.0	776.7	803.9	835.4	874.5	927.2	1001.9	1074.5
45°	639.2	654.6	669.3	691.1	722.6	749.2	777.2	814.4	868.3	930.1	994.5
47.5°	585.0	600.4	617.2	638.2	665.7	692.8	720.8	753.7	802.9	863.4	906.9
50°	550.2	562.8	579.6	600.7	625.9	654.6	679.8	715.6	762.5	810.2	848.0
52.5°	514.2	525.8	544.8	566.9	590.6	615.4	642.3	673.0	715.4	760.3	790.3
55°	458.3	472.3	488.5	510.2	533.3	554.4	580.3	611.9	645.5	679.1	699.5
57.5°	406.1	417.7	431.3	453.7	473.8	498.9	522.1	546.7	577.8	603.2	616.4
60°	367.9	378.4	396.0	415.6	434.5	456.3	482.9	507.4	531.3	551.6	562.0
62.5°	332.1	344.3	359.5	377.5	398.1	418.7	441.9	462.5	483.6	501.1	508.3
65°	285.3	295.1	306.3	323.1	339.9	361.0	379.2	400.2	415.6	425.4	431.8
67.5°	242.6	249.1	257.6	268.9	285.3	303.7	321.4	337.8	350.7	357.4	363.0
70°	215.2	219.4	225.7	236.9	249.5	265.6	283.8	295.8	307.0	312.5	318.2
72.5°	187.7	193.1	198.8	207.8	218.1	229.7	242.9	257.6	263.8	270.5	273.9
75°	142.3	150.0	157.7	163.3	170.3	179.4	191.4	200.5	203.9	209.6	210.3
77.5°	107.4	109.1	114.7	121.6	127.5	134.1	141.7	149.8	151.5	154.4	156.3
80°	88.3	88.3	88.3	92.5	99.5	104.4	111.5	115.7	118.4	119.1	119.8
82.5°	70.9	70.9	70.4	71.2	73.7	76.4	82.8	87.6	89.9	89.4	87.9
85°	46.3	44.9	44.9	44.1	44.9	43.4	42.7	45.6	49.8	49.8	48.3
87.5°	25.7	24.9	24.7	23.4	22.0	20.7	18.4	18.3	17.7	19.4	18.2
90°	33.2	32.0	28.2	24.3	20.4	16.6	13.2	10.3	7.2	4.3	1.3
92.5°	36.0	34.2	31.2	28.4	25.4	22.5	21.5	22.3	23.1	24.0	24.8
95°	43.4	41.3	38.1	34.8	31.6	28.3	32.7	44.9	57.1	69.2	81.3
97.5°	45.3	42.9	64.3	85.6	106.9	128.2	141.6	147.0	152.6	158.0	163.5
100°	46.4	44.0	90.2	136.4	182.6	228.8	249.0	243.1	237.1	231.2	225.3
102.5°	80.3	87.7	138.2	188.7	239.2	289.6	312.7	308.4	304.3	300.0	295.7
105°	239.5	291.9	318.6	345.3	371.9	398.6	410.3	407.1	403.8	400.6	397.3
107.5°	496.7	535.1	530.9	526.7	522.5	518.3	514.9	512.3	509.6	507.0	504.4
110°	591.5	601.2	598.0	594.7	591.5	588.2	585.4	583.0	580.6	578.3	575.9



TEST NUMBER: P332486-940

CATALOG NUMBER: S123RDIW-S1165D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	668.6	668.4	665.1	661.9	658.6	655.4	652.6	650.6	648.5	646.3	644.2
115°	768.1	765.2	762.5	759.8	757.2	754.6	752.3	750.6	748.8	747.0	745.2
117.5°	861.4	859.1	857.6	856.3	855.0	853.6	851.9	849.6	847.4	845.3	843.0
120°	922.2	919.8	918.9	918.0	917.1	916.3	914.5	911.9	909.2	906.5	903.8
122.5°	982.3	980.6	979.5	978.4	977.2	976.2	974.5	972.2	970.1	967.9	965.7
125°	1067.1	1066.5	1065.3	1064.1	1062.9	1061.8	1060.0	1057.6	1055.3	1052.8	1050.4
127.5°	1150.6	1149.7	1148.3	1146.8	1145.4	1144.0	1142.1	1139.7	1137.4	1135.0	1132.6
130°	1201.0	1199.8	1198.6	1197.4	1196.2	1195.1	1193.3	1190.9	1188.6	1186.2	1183.7
132.5°	1248.9	1247.8	1246.8	1245.9	1244.9	1244.0	1242.3	1239.9	1237.6	1235.2	1232.9
135°	1322.0	1321.1	1319.9	1318.8	1317.5	1316.3	1314.9	1313.1	1311.3	1309.6	1307.8
137.5°	1386.3	1384.8	1384.2	1383.5	1382.9	1382.2	1380.7	1378.5	1376.3	1374.0	1371.7
140°	1427.6	1426.4	1425.5	1424.6	1423.7	1422.8	1421.6	1419.8	1418.0	1416.2	1414.4
142.5°	1466.8	1465.9	1465.0	1464.1	1463.2	1462.3	1461.0	1459.2	1457.4	1455.6	1453.8
145°	1521.6	1521.1	1520.5	1519.8	1519.3	1518.7	1517.3	1515.3	1513.2	1511.1	1509.0
147.5°	1570.5	1569.9	1569.2	1568.7	1568.1	1567.4	1566.5	1565.1	1563.8	1562.5	1561.0
150°	1600.3	1599.7	1599.1	1598.6	1597.9	1597.3	1596.6	1595.7	1594.8	1593.9	1593.0
152.5°	1626.4	1625.3	1625.0	1624.6	1624.3	1623.9	1623.5	1623.1	1622.6	1622.3	1621.8
155°	1662.5	1661.0	1660.7	1660.5	1660.2	1659.8	1660.0	1660.6	1661.2	1661.8	1662.3
157.5°	1694.0	1692.2	1692.6	1692.8	1693.1	1693.4	1693.6	1693.6	1693.7	1693.8	1693.8
160°	1712.2	1710.4	1710.7	1710.9	1711.3	1711.5	1711.8	1712.2	1712.4	1712.7	1713.1
162.5°	1728.4	1726.4	1726.6	1727.0	1727.2	1727.5	1728.0	1728.8	1729.7	1730.4	1731.2
165°	1750.1	1747.7	1748.0	1748.3	1748.6	1748.9	1749.4	1750.3	1751.2	1752.1	1753.0
167.5°	1767.1	1764.8	1764.8	1764.8	1764.8	1764.8	1765.3	1766.6	1767.7	1768.9	1770.0
170°	1776.7	1774.3	1774.3	1774.3	1774.3	1774.3	1775.0	1776.1	1777.3	1778.5	1779.7
172.5°	1783.2	1780.7	1780.5	1780.3	1780.0	1779.8	1780.4	1781.8	1783.2	1784.7	1786.1
175°	1791.1	1789.0	1788.7	1788.4	1788.1	1787.8	1788.4	1789.9	1791.4	1792.9	1794.3
177.5°	1794.1	1792.2	1792.0	1791.7	1791.5	1791.3	1791.7	1793.0	1794.1	1795.3	1796.4
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1646.2	1652.3	1660.2	1672.0	1681.0	1688.8	1690.5	1692.7	1698.4	1707.8	1715.1
5°	1656.8	1672.9	1698.9	1724.1	1751.4	1773.9	1794.9	1809.6	1823.6	1853.1	1876.9
7.5°	1653.5	1689.3	1730.0	1775.3	1821.1	1865.5	1906.7	1943.6	1980.3	2023.2	2072.2
10°	1651.2	1693.3	1747.9	1806.1	1869.9	1932.2	1992.5	2039.5	2094.2	2143.2	2205.6
12.5°	1640.6	1701.1	1766.5	1840.8	1919.2	1991.1	2070.5	2135.4	2197.9	2268.8	2341.3
15°	1626.7	1700.3	1783.0	1881.8	2000.9	2087.9	2169.2	2282.0	2359.1	2436.2	2539.9
17.5°	1601.3	1691.1	1794.5	1922.9	2022.2	2139.0	2261.4	2350.5	2454.4	2563.0	2656.9
20°	1581.1	1685.6	1801.2	1927.3	2054.2	2181.0	2299.5	2406.0	2513.3	2638.8	2715.8
22.5°	1560.9	1664.3	1784.4	1918.4	2054.8	2188.3	2322.5	2447.6	2568.2	2694.8	2793.2
25°	1518.0	1640.7	1771.0	1907.7	2042.3	2189.5	2349.3	2488.8	2638.0	2768.4	2861.6
27.5°	1474.6	1587.0	1716.8	1855.5	2005.0	2179.0	2367.0	2525.5	2675.0	2768.4	2797.7
30°	1435.4	1554.5	1673.7	1814.5	1976.4	2170.5	2370.3	2551.8	2674.5	2715.1	2684.9
32.5°	1395.5	1503.5	1621.5	1765.8	1937.7	2149.8	2374.8	2536.1	2609.9	2578.9	2456.2
35°	1325.3	1422.7	1537.0	1681.3	1879.0	2138.3	2356.3	2465.6	2447.4	2272.2	2040.9
37.5°	1250.2	1329.5	1435.4	1586.4	1818.2	2092.8	2276.6	2292.8	2135.1	1866.1	1598.9
40°	1190.8	1262.2	1370.9	1528.6	1771.0	2047.9	2196.5	2131.3	1886.7	1587.4	1364.6
42.5°	1133.0	1193.3	1298.0	1468.0	1726.2	1986.8	2077.1	1935.1	1652.9	1369.9	1167.2
45°	1035.2	1091.9	1197.0	1371.5	1634.4	1869.9	1858.0	1611.2	1328.8	1101.1	932.8
47.5°	942.4	992.0	1090.7	1268.8	1526.6	1694.7	1583.2	1320.7	1081.1	898.4	778.4
50°	876.7	925.9	1024.0	1199.9	1440.3	1562.9	1403.8	1150.8	931.5	780.1	684.7
52.5°	814.0	861.9	951.6	1123.0	1336.0	1409.3	1238.4	1003.9	821.0	690.4	608.5
55°	726.1	762.5	843.1	1007.1	1166.3	1183.0	1010.0	813.7	663.0	571.9	515.9
57.5°	636.5	667.9	747.5	878.2	989.7	981.1	816.9	647.2	545.7	478.0	437.3
60°	578.2	609.0	679.1	791.3	875.4	846.0	695.3	558.6	471.7	422.0	389.7
62.5°	523.8	548.0	613.5	695.4	755.9	722.6	594.3	481.2	412.2	370.3	344.8
65°	445.1	464.7	517.2	560.0	593.6	561.4	454.9	376.4	326.6	297.2	279.6
67.5°	370.1	382.6	415.9	431.3	455.0	419.6	342.1	289.4	261.2	236.3	224.2
70°	323.1	332.2	349.7	362.3	368.6	332.2	274.7	236.2	212.3	194.8	187.2
72.5°	276.0	284.0	287.5	297.8	294.6	260.5	220.9	190.2	173.1	161.2	151.2
75°	211.0	214.5	211.0	206.8	197.6	173.8	146.5	131.1	118.4	112.8	109.3
77.5°	153.7	152.7	147.8	141.3	125.7	110.8	96.0	90.9	85.3	82.4	81.1
80°	118.4	115.7	111.5	100.9	87.6	77.1	73.6	70.1	67.9	64.5	63.8
82.5°	88.2	86.5	79.5	70.6	61.3	56.4	53.4	52.2	50.0	48.2	48.1
85°	47.0	44.9	37.2	32.3	30.9	29.4	28.7	28.7	25.9	25.2	25.2
87.5°	16.0	13.2	13.3	12.1	12.8	12.5	13.8	13.5	13.6	14.4	13.6
90°	4.3	7.2	10.3	13.2	16.6	20.4	24.3	28.2	32.0	33.2	34.3
92.5°	24.0	23.1	22.3	21.5	22.5	25.4	28.4	31.2	34.2	36.0	37.9
95°	69.2	57.1	44.9	32.7	28.3	31.6	34.8	38.1	41.3	43.4	45.5
97.5°	158.0	152.6	147.0	141.6	128.2	106.9	85.6	64.3	42.9	45.3	47.7
100°	231.2	237.1	243.1	249.0	228.8	182.6	136.4	90.2	44.0	46.4	48.7
102.5°	300.0	304.3	308.4	312.7	289.6	239.2	188.7	138.2	87.7	80.3	73.0
105°	400.6	403.8	407.1	410.3	398.6	371.9	345.3	318.6	291.9	239.5	187.1
107.5°	507.0	509.6	512.3	514.9	518.3	522.5	526.7	530.9	535.1	496.7	458.2
110°	578.3	580.6	583.0	585.4	588.2	591.5	594.7	598.0	601.2	591.5	581.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	646.3	648.5	650.6	652.6	655.4	658.6	661.9	665.1	668.4	668.6	668.8
115°	747.0	748.8	750.6	752.3	754.6	757.2	759.8	762.5	765.2	768.1	771.2
117.5°	845.3	847.4	849.6	851.9	853.6	855.0	856.3	857.6	859.1	861.4	863.8
120°	906.5	909.2	911.9	914.5	916.3	917.1	918.0	918.9	919.8	922.2	924.6
122.5°	967.9	970.1	972.2	974.5	976.2	977.2	978.4	979.5	980.6	982.3	983.9
125°	1052.8	1055.3	1057.6	1060.0	1061.8	1062.9	1064.1	1065.3	1066.5	1067.1	1067.6
127.5°	1135.0	1137.4	1139.7	1142.1	1144.0	1145.4	1146.8	1148.3	1149.7	1150.6	1151.6
130°	1186.2	1188.6	1190.9	1193.3	1195.1	1196.2	1197.4	1198.6	1199.8	1201.0	1202.1
132.5°	1235.2	1237.6	1239.9	1242.3	1244.0	1244.9	1245.9	1246.8	1247.8	1248.9	1250.2
135°	1309.6	1311.3	1313.1	1314.9	1316.3	1317.5	1318.8	1319.9	1321.1	1322.0	1322.9
137.5°	1374.0	1376.3	1378.5	1380.7	1382.2	1382.9	1383.5	1384.2	1384.8	1386.3	1387.7
140°	1416.2	1418.0	1419.8	1421.6	1422.8	1423.7	1424.6	1425.5	1426.4	1427.6	1428.8
142.5°	1455.6	1457.4	1459.2	1461.0	1462.3	1463.2	1464.1	1465.0	1465.9	1466.8	1467.8
145°	1511.1	1513.2	1515.3	1517.3	1518.7	1519.3	1519.8	1520.5	1521.1	1521.6	1522.2
147.5°	1562.5	1563.8	1565.1	1566.5	1567.4	1568.1	1568.7	1569.2	1569.9	1570.5	1571.0
150°	1593.9	1594.8	1595.7	1596.6	1597.3	1597.9	1598.6	1599.1	1599.7	1600.3	1600.9
152.5°	1622.3	1622.6	1623.1	1623.5	1623.9	1624.3	1624.6	1625.0	1625.3	1626.4	1627.5
155°	1661.8	1661.2	1660.6	1660.0	1659.8	1660.2	1660.5	1660.7	1661.0	1662.5	1664.0
157.5°	1693.8	1693.7	1693.6	1693.6	1693.4	1693.1	1692.8	1692.6	1692.2	1694.0	1695.8
160°	1712.7	1712.4	1712.2	1711.8	1711.5	1711.3	1710.9	1710.7	1710.4	1712.2	1714.0
162.5°	1730.4	1729.7	1728.8	1728.0	1727.5	1727.2	1727.0	1726.6	1726.4	1728.4	1730.4
165°	1752.1	1751.2	1750.3	1749.4	1748.9	1748.6	1748.3	1748.0	1747.7	1750.1	1752.4
167.5°	1768.9	1767.7	1766.6	1765.3	1764.8	1764.8	1764.8	1764.8	1764.8	1767.1	1769.5
170°	1778.5	1777.3	1776.1	1775.0	1774.3	1774.3	1774.3	1774.3	1774.3	1776.7	1779.1
172.5°	1784.7	1783.2	1781.8	1780.4	1779.8	1780.0	1780.3	1780.5	1780.7	1783.2	1785.5
175°	1792.9	1791.4	1789.9	1788.4	1787.8	1788.1	1788.4	1788.7	1789.0	1791.1	1793.1
177.5°	1795.3	1794.1	1793.0	1791.7	1791.3	1791.5	1791.7	1792.0	1792.2	1794.1	1796.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1726.9	1726.9	1729.1	1737.6	1738.7	1746.0	1743.7
5°	1897.9	1911.2	1916.1	1937.2	1949.8	1955.4	1944.2
7.5°	2107.0	2144.7	2162.4	2184.4	2204.0	2209.8	2194.5
10°	2259.6	2298.8	2331.7	2352.1	2371.0	2383.6	2399.8
12.5°	2407.0	2455.2	2486.5	2515.2	2534.7	2550.7	2553.3
15°	2567.2	2640.1	2695.5	2736.1	2756.5	2767.0	2762.8
17.5°	2728.8	2796.4	2835.8	2877.3	2905.5	2906.9	2907.7
20°	2820.2	2886.1	2931.7	2962.5	2994.1	2992.7	2999.6
22.5°	2881.4	2933.2	2968.1	2990.5	3001.3	2996.1	2997.4
25°	2909.9	2925.3	2919.1	2883.3	2874.3	2841.3	2846.9
27.5°	2762.5	2689.6	2614.2	2517.2	2440.7	2379.5	2382.7
30°	2562.3	2433.4	2286.2	2162.8	2052.1	2021.2	1955.4
32.5°	2282.5	2089.1	1916.7	1801.8	1706.7	1681.0	1623.4
35°	1808.2	1620.4	1443.1	1336.5	1294.5	1235.6	1234.9
37.5°	1405.5	1240.1	1146.3	1066.4	1024.5	988.9	985.4
40°	1182.3	1053.4	982.6	925.1	883.8	857.1	850.9
42.5°	1026.4	922.2	855.9	820.3	788.5	774.7	764.5
45°	838.2	768.1	721.8	689.6	674.9	664.4	658.8
47.5°	701.2	654.2	622.7	601.2	589.2	578.2	581.1
50°	626.6	588.0	564.9	544.6	535.5	527.7	528.4
52.5°	566.6	532.0	513.3	498.6	487.2	481.8	479.1
55°	480.8	459.1	440.1	429.6	423.3	415.6	413.5
57.5°	410.1	393.3	377.9	366.0	364.4	357.0	358.0
60°	363.0	349.0	336.4	330.1	325.2	318.9	321.0
62.5°	324.3	312.5	301.1	295.9	291.0	286.3	287.3
65°	265.6	254.4	247.4	244.6	242.5	240.4	238.3
67.5°	211.7	204.8	200.5	194.4	190.1	189.4	187.3
70°	178.0	168.9	161.2	153.5	151.4	150.7	151.4
72.5°	142.7	137.0	134.8	131.1	130.6	128.9	130.1
75°	107.3	105.1	103.7	100.9	100.9	100.9	100.9
77.5°	79.1	77.8	77.0	76.4	75.7	74.7	74.5
80°	61.7	61.0	59.6	59.6	58.9	59.6	58.9
82.5°	46.5	46.4	45.0	45.0	44.3	43.9	44.3
85°	23.8	23.1	24.5	23.1	23.8	22.5	23.8
87.5°	13.8	14.1	13.7	13.8	13.4	14.6	13.6
90°	35.6	36.7	37.6	38.3	38.8	39.4	39.9
92.5°	39.9	41.7	42.8	43.2	43.5	43.9	44.2
95°	47.5	49.6	50.6	50.6	50.6	50.6	50.6
97.5°	50.0	52.4	53.8	54.0	54.3	54.7	54.9
100°	51.1	53.5	54.8	55.1	55.4	55.7	56.0
102.5°	65.7	58.3	54.9	55.5	56.0	56.5	57.1
105°	134.6	82.2	56.3	56.9	57.5	58.1	58.7
107.5°	419.7	381.3	342.3	302.8	263.2	223.7	184.2
110°	571.9	562.1	536.0	493.7	451.3	408.9	366.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	669.0	669.1	664.8	655.8	646.8	637.9	628.9
115°	774.1	777.0	779.1	780.3	781.5	782.7	783.9
117.5°	866.1	868.5	869.9	870.0	870.3	870.6	870.8
120°	926.9	929.3	930.5	930.5	930.5	930.5	930.5
122.5°	985.6	987.3	988.2	988.5	988.6	988.9	989.2
125°	1068.3	1068.8	1069.4	1070.1	1070.6	1071.2	1071.8
127.5°	1152.5	1153.4	1153.6	1153.1	1152.4	1151.8	1151.3
130°	1203.4	1204.5	1204.8	1204.3	1203.6	1203.0	1202.5
132.5°	1251.3	1252.5	1252.7	1251.9	1251.1	1250.2	1249.4
135°	1323.7	1324.6	1324.6	1323.7	1322.9	1322.0	1321.1
137.5°	1389.1	1390.5	1390.9	1390.4	1389.7	1389.1	1388.6
140°	1429.9	1431.1	1431.5	1430.8	1430.3	1429.7	1429.1
142.5°	1468.7	1469.6	1469.7	1468.9	1468.0	1467.2	1466.4
145°	1522.9	1523.4	1523.8	1523.8	1523.8	1523.8	1523.8
147.5°	1571.6	1572.3	1571.8	1570.5	1569.1	1567.7	1566.4
150°	1601.5	1602.0	1602.0	1601.1	1600.2	1599.3	1598.4
152.5°	1628.5	1629.6	1629.4	1628.1	1626.7	1625.3	1624.0
155°	1665.4	1667.0	1666.8	1665.0	1663.2	1661.4	1659.7
157.5°	1697.5	1699.3	1699.1	1696.7	1694.4	1692.1	1689.8
160°	1715.7	1717.4	1717.3	1715.2	1713.2	1711.1	1709.1
162.5°	1732.4	1734.4	1734.5	1732.7	1730.8	1729.0	1727.2
165°	1754.8	1757.2	1757.3	1755.2	1753.2	1751.1	1749.0
167.5°	1771.8	1774.2	1774.2	1771.8	1769.5	1767.1	1764.8
170°	1781.5	1783.9	1783.9	1781.5	1779.1	1776.7	1774.3
172.5°	1787.9	1790.2	1790.1	1787.5	1784.9	1782.3	1779.7
175°	1795.2	1797.3	1797.2	1794.7	1792.4	1790.0	1787.7
177.5°	1797.9	1799.8	1799.6	1797.2	1794.8	1792.4	1790.1
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3

(END OF REPORT)