

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: P333091-940

Luminaire Tested: **S124RDIW-S1020D1560U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333091-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIW-S1020D1560U940-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1560 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9434.2 lumens  
Efficiency: N/A  
Efficacy: 123.2 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

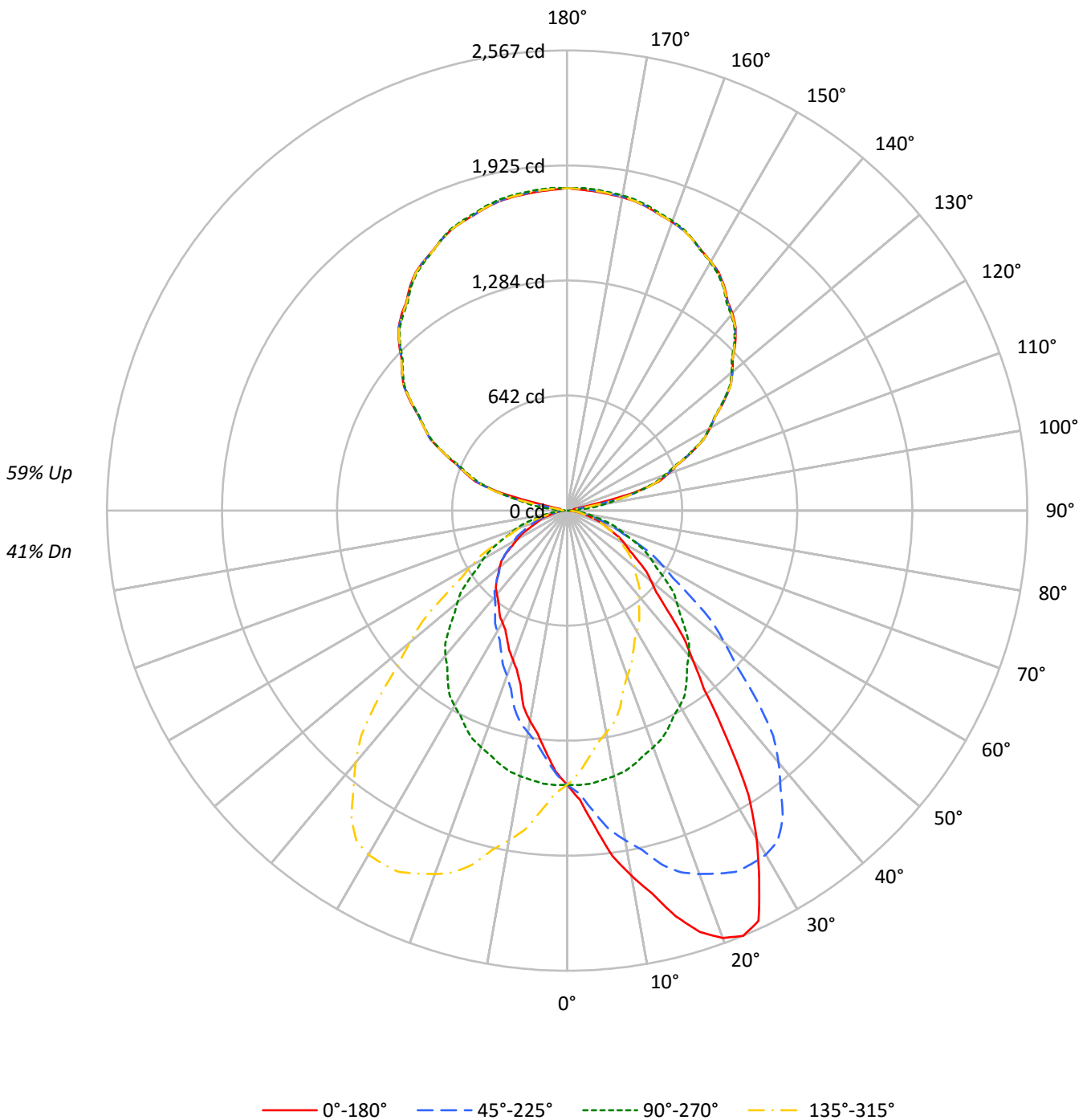
Input Watts (W): 76.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41								
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35								
2	88	81	75	70	80	74	69	65	61	57	54	49	47	45	38	37	35	30								
3	80	71	64	59	73	65	59	54	54	50	46	44	41	38	34	32	30	26								
4	74	63	56	50	67	58	51	46	48	43	40	39	36	33	31	28	26	23								
5	68	56	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20								
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	18								
7	58	46	38	33	53	42	35	31	35	30	26	29	25	22	23	20	18	16								
8	53	42	34	29	49	38	32	27	32	27	24	27	23	20	21	19	16	14								
9	50	38	31	26	45	35	29	24	30	25	21	25	21	18	20	17	15	13								
10	46	35	28	23	42	32	26	22	27	22	19	23	19	16	18	16	14	12								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	12352	12352	12352	12352
5°	14327	12388	10950	12388
10°	16948	12336	9773	12336
15°	19578	12221	8398	12221
20°	21798	12064	7594	12064
25°	22502	11909	7050	11909
30°	19699	11723	6723	11723
35°	15334	11446	6525	11446
40°	11499	11129	6418	11129
45°	9079	10620	6361	10620
50°	7665	10034	6179	10034
55°	6681	9388	5847	9388
60°	6011	8719	5176	8719
65°	5299	7996	4451	7996
70°	4773	7246	4015	7246
75°	3999	6422	3425	6422
80°	3384	5472	3208	5472
85°	2862	4279	2862	4279



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.2	1.6
10°-20°	447.2	4.7
20°-30°	699.4	7.4
30°-40°	777.5	8.2
40°-50°	689.9	7.3
50°-60°	537.6	5.7
60°-70°	351.9	3.7
70°-80°	173.1	1.8
80°-90°	47.9	0.5
90°-100°	61.5	0.7
100°-110°	392.1	4.2
110°-120°	750.0	8.0
120°-130°	952.1	10.1
130°-140°	1018.7	10.8
140°-150°	952.6	10.1
150°-160°	768.2	8.1
160°-170°	495.5	5.3
170°-180°	170.8	1.8
0°-30°	1294.9	13.7
0°-40°	2072.4	22.0
0°-60°	3299.8	35.0
0°-90°	3872.7	41.0
90°-120°	1203.6	12.8
90°-150°	4127.0	43.7
90°-180°	5561.0	58.9
0°-180°	9434.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1530	1530	1530	1530	1530	
5°	1768	1529	1351	1529	1768	179
15°	2342	1462	1005	1462	2342	666
25°	2526	1337	792	1337	2526	1121
35°	1556	1161	662	1161	1556	975
45°	795	930	557	930	795	630
55°	475	667	415	667	475	432
65°	277	419	233	419	277	279
75°	128	206	110	206	128	141
85°	31	46	31	46	31	36
90°	40	4	40	4	40	19
95°	39	74	39	74	39	31
105°	383	405	383	405	383	334
115°	761	756	761	756	761	753
125°	1070	1062	1070	1062	1070	953
135°	1327	1318	1327	1318	1327	1022
145°	1528	1520	1528	1520	1528	955
155°	1665	1666	1665	1666	1665	768
165°	1750	1758	1750	1758	1750	494
175°	1787	1798	1787	1798	1787	170
180°	1798	1798	1798	1798	1798	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1613.8	1618.3	1613.8	1613.4	1608.5	1607.0	1605.0	1598.6	1586.7	1579.8	1581.3
5°	1768.0	1783.3	1774.8	1773.5	1760.0	1746.4	1737.8	1718.1	1697.1	1682.9	1671.2
7.5°	1946.2	1955.1	1949.7	1941.1	1919.1	1906.7	1886.7	1860.6	1823.1	1794.3	1768.1
10°	2067.5	2074.9	2072.5	2056.5	2040.4	2007.8	1989.2	1952.9	1905.4	1867.9	1832.6
12.5°	2186.9	2194.8	2173.1	2173.8	2143.5	2117.7	2088.4	2042.6	1987.8	1939.3	1895.3
15°	2342.5	2332.6	2332.6	2320.3	2286.3	2250.7	2220.4	2172.4	2103.3	2045.3	1984.3
17.5°	2464.3	2467.7	2462.7	2433.6	2407.0	2370.0	2314.6	2258.5	2194.4	2116.7	2054.2
20°	2537.3	2537.3	2531.7	2512.0	2477.5	2438.0	2378.3	2317.2	2235.9	2157.6	2087.3
22.5°	2566.9	2568.8	2562.3	2546.0	2515.0	2476.5	2425.5	2363.6	2279.7	2191.6	2104.5
25°	2526.2	2537.9	2539.1	2534.8	2525.6	2502.1	2458.4	2394.9	2319.7	2224.1	2130.4
27.5°	2319.3	2334.1	2347.1	2368.4	2396.7	2411.5	2413.5	2381.2	2315.6	2223.7	2129.3
30°	2113.2	2125.5	2165.6	2218.0	2258.6	2295.6	2327.7	2336.3	2299.4	2216.7	2117.5
32.5°	1884.4	1901.1	1941.2	1997.5	2065.3	2128.0	2199.9	2236.7	2235.7	2186.1	2094.3
35°	1555.9	1568.3	1605.3	1664.4	1745.8	1838.9	1952.9	2041.7	2102.0	2097.7	2041.7
37.5°	1254.8	1268.7	1306.1	1355.2	1434.1	1549.3	1659.7	1782.0	1893.7	1956.5	1937.7
40°	1091.1	1091.7	1128.1	1178.7	1252.6	1353.1	1473.3	1608.9	1733.4	1835.1	1854.8
42.5°	961.9	962.0	986.1	1040.5	1093.9	1188.4	1303.1	1437.8	1583.5	1701.0	1753.3
45°	795.2	800.8	820.5	853.2	895.1	975.2	1067.0	1192.2	1355.6	1494.9	1581.8
47.5°	673.4	681.5	694.1	720.8	754.1	807.5	883.5	996.0	1128.8	1282.1	1405.8
50°	610.3	611.5	627.5	642.3	671.3	713.8	780.4	874.1	996.1	1143.5	1280.9
52.5°	556.1	555.8	565.4	584.2	607.7	640.9	694.6	779.9	888.1	1020.2	1162.1
55°	474.7	477.8	485.2	499.9	517.8	541.3	583.8	647.9	733.0	845.8	974.6
57.5°	412.8	414.4	420.2	426.4	442.8	459.9	491.8	536.3	608.1	700.4	820.5
60°	372.3	372.9	374.8	384.1	397.0	413.0	434.6	472.2	532.6	617.1	712.0
62.5°	332.9	333.9	336.8	343.6	353.6	364.7	387.3	417.5	467.5	539.7	625.2
65°	277.4	278.0	282.3	284.8	292.8	302.6	319.3	339.7	374.2	434.6	499.4
67.5°	231.8	231.8	232.0	235.3	240.9	247.4	257.4	273.7	299.7	336.8	393.9
70°	202.2	202.2	203.4	205.3	208.4	213.9	219.5	231.8	250.9	281.1	324.9
72.5°	174.6	175.0	176.3	176.6	178.3	182.8	186.9	194.8	209.0	231.8	267.2
75°	128.2	130.1	133.1	135.6	138.7	138.1	142.4	147.3	151.7	165.2	185.6
77.5°	95.4	94.4	94.8	96.9	97.3	97.9	100.9	104.8	108.0	114.4	121.7
80°	72.8	72.8	74.5	75.2	74.5	75.2	78.3	80.2	81.4	83.8	90.6
82.5°	55.0	56.0	55.4	56.0	56.4	57.0	59.6	59.9	61.2	62.2	65.0
85°	30.9	31.5	32.0	30.9	30.9	30.9	32.0	32.6	33.9	33.3	34.5
87.5°	18.9	18.3	18.6	18.5	18.9	18.2	18.4	19.0	17.7	17.7	17.3
90°	40.3	39.8	39.1	38.5	38.0	36.7	35.0	33.2	31.4	29.6	27.2
92.5°	37.1	37.0	36.9	36.7	36.6	35.7	33.9	32.1	30.3	28.5	26.1
95°	39.0	38.7	38.4	38.1	37.8	36.7	35.0	33.2	31.4	29.6	29.2
97.5°	37.6	37.4	37.1	36.7	36.5	36.2	36.0	35.8	35.7	35.5	68.8
100°	37.6	37.4	37.1	36.7	36.5	38.9	44.0	49.0	54.1	59.2	100.4
102.5°	38.7	38.7	38.6	38.5	38.5	65.9	120.6	175.5	230.2	285.1	290.4
105°	383.3	394.0	404.7	415.5	426.2	430.3	427.7	424.9	422.2	419.5	418.0
107.5°	534.1	533.0	531.8	530.7	529.6	528.3	527.1	525.8	524.4	523.1	521.0
110°	599.8	598.9	598.0	597.1	596.2	595.4	594.9	594.2	593.6	593.0	591.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	665.4	664.2	663.1	662.0	660.8	660.3	660.4	660.6	660.7	660.8	660.0
115°	761.2	761.2	761.2	761.2	761.2	760.8	760.2	759.6	759.0	758.4	758.8
117.5°	858.4	858.6	858.7	858.8	859.0	859.1	859.2	859.3	859.4	859.5	858.9
120°	919.8	920.4	921.0	921.6	922.2	922.2	921.6	921.0	920.4	919.8	920.1
122.5°	980.1	980.6	981.2	981.9	982.4	982.6	982.2	981.9	981.5	981.1	980.7
125°	1070.4	1070.1	1069.8	1069.5	1069.3	1068.6	1067.7	1066.8	1066.0	1065.1	1065.6
127.5°	1149.8	1150.0	1150.2	1150.5	1150.7	1150.9	1151.1	1151.3	1151.5	1151.6	1150.2
130°	1203.5	1203.5	1203.5	1203.5	1203.5	1203.4	1203.1	1202.8	1202.5	1202.2	1201.3
132.5°	1253.0	1253.3	1253.5	1253.7	1254.0	1253.9	1253.7	1253.4	1253.0	1252.8	1251.6
135°	1327.2	1326.7	1326.1	1325.4	1324.9	1324.3	1323.7	1323.0	1322.5	1321.9	1320.7
137.5°	1390.7	1390.9	1391.1	1391.2	1391.4	1391.2	1390.5	1389.9	1389.2	1388.6	1387.2
140°	1434.9	1434.5	1434.2	1434.0	1433.6	1433.1	1432.2	1431.3	1430.4	1429.4	1428.9
142.5°	1471.4	1471.3	1471.3	1471.2	1471.1	1470.8	1470.2	1469.5	1468.8	1468.2	1467.8
145°	1527.6	1527.1	1526.4	1525.8	1525.3	1524.7	1524.5	1524.2	1523.8	1523.6	1523.6
147.5°	1574.1	1573.9	1573.5	1573.2	1573.0	1572.7	1572.4	1572.2	1572.0	1571.7	1572.0
150°	1604.3	1604.0	1603.7	1603.4	1603.1	1602.9	1602.9	1602.9	1602.9	1602.9	1603.2
152.5°	1630.0	1630.2	1630.4	1630.6	1630.8	1630.7	1630.1	1629.7	1629.2	1628.7	1629.2
155°	1664.8	1665.7	1666.6	1667.5	1668.4	1668.2	1667.1	1665.8	1664.6	1663.4	1664.4
157.5°	1693.8	1695.4	1696.9	1698.5	1700.0	1700.0	1698.5	1696.9	1695.4	1693.8	1694.9
160°	1713.2	1715.0	1716.8	1718.6	1720.4	1720.4	1718.6	1716.8	1715.0	1713.2	1713.5
162.5°	1728.2	1730.3	1732.3	1734.4	1736.3	1736.5	1734.7	1733.0	1731.1	1729.3	1729.7
165°	1749.5	1752.2	1754.9	1757.6	1760.2	1760.4	1758.0	1755.6	1753.2	1750.9	1750.9
167.5°	1765.4	1768.4	1771.4	1774.3	1777.4	1777.5	1774.9	1772.3	1769.6	1767.0	1767.2
170°	1775.0	1778.1	1781.0	1784.0	1787.0	1787.3	1784.9	1782.5	1780.1	1777.7	1777.4
172.5°	1780.4	1783.7	1786.9	1790.1	1793.3	1793.8	1791.4	1789.0	1786.5	1784.2	1783.9
175°	1787.2	1790.7	1794.3	1797.9	1801.5	1802.0	1799.3	1796.5	1793.9	1791.2	1790.9
177.5°	1791.4	1794.3	1797.2	1800.1	1803.0	1803.4	1801.5	1799.6	1797.7	1795.7	1795.3
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1576.4	1569.5	1566.0	1558.1	1548.7	1543.8	1539.4	1532.9	1524.6	1515.7	1509.3
5°	1656.4	1641.6	1623.1	1600.9	1581.2	1562.1	1545.4	1528.7	1509.7	1490.0	1470.3
7.5°	1738.5	1709.4	1677.9	1641.6	1606.2	1574.0	1544.4	1516.1	1484.0	1455.3	1429.1
10°	1795.7	1756.2	1712.4	1666.3	1620.0	1579.9	1540.5	1504.8	1465.3	1430.1	1400.5
12.5°	1842.1	1795.7	1743.0	1685.5	1629.9	1581.4	1536.1	1489.4	1444.6	1406.5	1367.0
15°	1919.0	1855.5	1784.6	1715.6	1643.4	1577.4	1516.4	1462.2	1411.0	1357.5	1319.8
17.5°	1971.8	1896.6	1810.4	1727.4	1642.2	1564.4	1494.0	1429.4	1370.4	1315.6	1270.9
20°	2003.4	1920.2	1824.7	1730.4	1634.8	1551.6	1475.8	1404.3	1343.3	1284.1	1237.8
22.5°	2021.2	1929.1	1824.7	1725.9	1626.9	1536.8	1453.6	1379.1	1312.7	1253.5	1202.3
25°	2026.9	1928.2	1821.6	1708.2	1599.6	1504.1	1417.8	1337.0	1263.1	1203.9	1149.7
27.5°	2019.0	1902.8	1793.6	1677.2	1565.3	1464.5	1373.9	1289.1	1215.0	1151.6	1095.9
30°	2007.2	1882.6	1765.5	1644.7	1531.2	1434.5	1338.9	1257.6	1180.4	1114.5	1058.5
32.5°	1981.5	1858.0	1732.0	1608.2	1493.3	1393.6	1302.9	1221.0	1145.5	1078.1	1018.5
35°	1930.7	1805.5	1668.7	1541.8	1428.9	1325.3	1240.3	1161.4	1089.2	1017.2	954.2
37.5°	1863.8	1735.9	1599.8	1460.7	1347.8	1250.0	1172.0	1097.9	1027.5	961.6	892.0
40°	1800.6	1684.1	1543.6	1405.5	1289.6	1195.2	1123.2	1056.0	985.1	919.7	850.1
42.5°	1724.2	1625.0	1482.9	1344.3	1229.9	1139.1	1071.8	1006.1	941.6	878.3	805.7
45°	1596.6	1521.3	1388.2	1255.1	1139.8	1049.8	988.2	930.2	873.5	813.1	744.7
47.5°	1450.4	1399.5	1284.5	1148.2	1041.5	960.6	901.0	853.6	805.7	745.3	685.3
50°	1348.8	1316.1	1205.1	1080.7	978.9	904.3	843.3	798.9	758.8	700.9	647.3
52.5°	1240.3	1222.9	1129.2	1010.1	911.9	838.7	786.6	746.6	706.1	658.0	607.8
55°	1075.0	1084.3	1004.8	901.9	809.4	747.8	700.3	667.0	632.5	591.8	552.9
57.5°	906.2	940.0	886.5	796.2	709.5	652.6	616.8	588.8	559.8	526.1	492.9
60°	805.0	833.4	803.3	723.7	647.9	594.9	561.6	540.0	511.0	480.2	455.0
62.5°	706.4	736.7	718.9	654.7	584.2	538.7	509.3	489.2	467.6	440.8	414.5
65°	582.6	602.3	593.6	549.3	499.4	460.5	433.4	418.6	398.9	379.2	355.7
67.5°	446.2	484.3	479.2	455.7	412.5	382.2	364.4	351.3	333.4	318.7	302.8
70°	366.8	401.9	401.3	382.2	358.7	330.4	318.1	307.0	291.0	276.8	263.9
72.5°	300.2	332.4	337.2	322.5	306.5	285.1	273.2	265.6	250.0	240.3	229.8
75°	210.2	233.6	239.8	239.8	232.4	221.3	210.8	205.9	194.8	186.2	180.0
77.5°	137.9	152.7	162.3	164.4	165.6	161.8	153.3	149.8	141.2	138.2	132.3
80°	97.4	107.3	118.3	122.1	125.1	123.9	120.2	117.7	109.8	106.6	104.2
82.5°	67.3	72.8	81.9	90.0	89.2	92.4	89.2	87.2	81.1	80.0	77.6
85°	35.1	35.8	37.0	42.5	45.7	46.8	47.4	46.2	44.4	44.4	40.0
87.5°	16.8	15.8	16.3	15.8	15.6	16.9	17.7	17.6	16.8	16.0	15.1
90°	24.8	22.4	20.1	17.2	13.9	10.6	7.3	4.0	7.3	10.6	13.9
92.5°	23.7	21.3	18.9	17.7	17.5	17.3	17.1	16.9	17.1	17.3	17.5
95°	29.0	28.7	28.4	33.3	43.5	53.7	63.8	73.9	63.8	53.7	43.5
97.5°	102.2	135.5	168.9	182.4	176.1	169.7	163.4	157.0	163.4	169.7	176.1
100°	141.6	182.9	224.1	242.0	236.7	231.3	226.0	220.5	226.0	231.3	236.7
102.5°	295.9	301.2	306.6	307.3	303.4	299.4	295.5	291.5	295.5	299.4	303.4
105°	416.6	415.1	413.6	412.0	410.2	408.3	406.5	404.7	406.5	408.3	410.2
107.5°	519.1	517.0	515.0	513.5	512.6	511.8	510.9	509.9	510.9	511.8	512.6
110°	589.4	587.6	585.9	584.5	583.6	582.7	581.8	580.9	581.8	582.7	583.6





TEST NUMBER: P333091-940

CATALOG NUMBER: S124RDIW-S1020D1560U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	659.2	658.3	657.5	656.2	654.6	653.0	651.4	649.8	651.4	653.0	654.6
115°	759.0	759.3	759.6	759.3	758.4	757.5	756.6	755.7	756.6	757.5	758.4
117.5°	858.3	857.6	856.9	856.0	854.8	853.6	852.4	851.2	852.4	853.6	854.8
120°	920.4	920.7	921.0	920.5	919.4	918.2	916.9	915.8	916.9	918.2	919.4
122.5°	980.3	979.9	979.5	978.9	978.1	977.4	976.7	976.0	976.7	977.4	978.1
125°	1066.2	1066.8	1067.4	1067.1	1066.0	1064.7	1063.5	1062.4	1063.5	1064.7	1066.0
127.5°	1148.9	1147.5	1146.1	1145.3	1145.0	1144.7	1144.4	1144.1	1144.4	1144.7	1145.0
130°	1200.4	1199.5	1198.6	1198.0	1197.7	1197.4	1197.1	1196.9	1197.1	1197.4	1197.7
132.5°	1250.4	1249.4	1248.2	1247.4	1246.9	1246.3	1245.7	1245.2	1245.7	1246.3	1246.9
135°	1319.5	1318.3	1317.1	1316.6	1317.0	1317.2	1317.5	1317.9	1317.5	1317.2	1317.0
137.5°	1386.0	1384.6	1383.3	1382.6	1382.5	1382.3	1382.2	1382.2	1382.2	1382.3	1382.5
140°	1428.3	1427.6	1427.1	1426.5	1425.8	1425.3	1424.7	1424.1	1424.7	1425.3	1425.8
142.5°	1467.5	1467.1	1466.8	1466.1	1465.0	1463.9	1462.8	1461.7	1462.8	1463.9	1465.0
145°	1523.6	1523.6	1523.6	1523.1	1522.2	1521.3	1520.5	1519.6	1520.5	1521.3	1522.2
147.5°	1572.4	1572.6	1572.9	1572.3	1570.6	1568.9	1567.2	1565.6	1567.2	1568.9	1570.6
150°	1603.6	1603.8	1604.1	1603.7	1602.5	1601.2	1600.1	1598.9	1600.1	1601.2	1602.5
152.5°	1629.8	1630.3	1630.9	1630.7	1629.7	1628.8	1627.8	1626.8	1627.8	1628.8	1629.7
155°	1665.3	1666.2	1667.1	1667.3	1667.1	1666.7	1666.4	1666.2	1666.4	1666.7	1667.1
157.5°	1695.9	1696.8	1697.9	1698.5	1698.7	1698.9	1699.1	1699.2	1699.1	1698.9	1698.7
160°	1713.8	1714.0	1714.4	1715.0	1715.9	1716.8	1717.7	1718.6	1717.7	1716.8	1715.9
162.5°	1729.9	1730.2	1730.5	1731.3	1732.4	1733.5	1734.6	1735.8	1734.6	1733.5	1732.4
165°	1750.9	1750.9	1750.9	1751.6	1753.1	1754.6	1756.0	1757.6	1756.0	1754.6	1753.1
167.5°	1767.4	1767.5	1767.7	1768.5	1770.1	1771.7	1773.3	1774.8	1773.3	1771.7	1770.1
170°	1777.2	1776.8	1776.6	1777.3	1779.1	1780.8	1782.7	1784.5	1782.7	1780.8	1779.1
172.5°	1783.6	1783.3	1783.0	1783.8	1785.6	1787.3	1789.1	1790.9	1789.1	1787.3	1785.6
175°	1790.6	1790.3	1790.0	1790.7	1792.5	1794.3	1796.1	1797.9	1796.1	1794.3	1792.5
177.5°	1794.8	1794.3	1793.9	1794.5	1796.1	1797.8	1799.5	1801.2	1799.5	1797.8	1796.1
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



TEST NUMBER: P333091-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1502.4	1497.4	1491.0	1483.6	1474.8	1466.9	1463.5	1466.4	1467.8	1463.9	1463.5
5°	1456.7	1441.3	1428.9	1410.4	1395.6	1383.3	1374.7	1371.0	1372.2	1362.4	1359.9
7.5°	1405.2	1387.0	1366.8	1344.8	1324.4	1306.3	1296.7	1291.6	1281.1	1276.7	1269.2
10°	1372.2	1347.6	1327.8	1301.9	1278.5	1257.0	1246.4	1237.8	1227.4	1222.4	1211.9
12.5°	1338.2	1309.6	1287.9	1261.0	1237.1	1211.0	1201.0	1185.1	1168.7	1158.3	1144.9
15°	1290.2	1255.7	1229.2	1197.1	1168.8	1139.2	1112.7	1083.1	1072.0	1048.6	1035.0
17.5°	1234.1	1199.1	1166.3	1123.3	1079.5	1042.8	1014.5	986.1	969.2	954.2	947.4
20°	1197.1	1165.1	1119.5	1069.5	1020.8	980.2	957.3	938.9	920.3	909.9	902.5
22.5°	1162.1	1121.1	1068.2	1014.3	965.6	933.8	914.4	895.5	880.4	870.4	860.6
25°	1103.4	1049.8	993.7	932.1	898.8	871.0	850.1	834.6	825.5	812.4	807.5
27.5°	1043.1	978.2	916.3	874.9	840.2	814.8	796.6	785.0	773.3	765.0	758.6
30°	996.8	930.9	875.4	835.9	800.8	779.8	765.0	751.4	742.2	735.4	730.5
32.5°	950.9	884.9	838.4	795.9	768.2	747.8	732.0	721.8	714.6	705.8	702.8
35°	884.6	826.0	785.3	747.2	718.8	700.3	688.0	677.4	671.3	668.9	667.0
37.5°	820.8	772.9	729.2	697.9	672.5	658.0	643.5	638.3	634.1	629.6	631.6
40°	780.4	735.4	696.6	663.3	642.9	627.0	618.3	612.2	608.4	608.4	608.4
42.5°	745.4	701.4	663.5	633.7	613.3	599.8	590.2	585.0	583.8	583.3	586.2
45°	691.1	650.3	612.2	587.5	570.2	556.6	551.1	546.8	546.8	549.3	549.8
47.5°	637.1	599.1	568.4	540.7	525.0	516.5	511.7	509.4	509.7	512.1	515.0
50°	604.1	566.5	536.3	511.7	496.9	488.8	484.6	483.3	484.6	484.6	488.8
52.5°	568.1	534.5	504.7	484.0	467.3	459.8	457.4	455.7	456.4	458.4	460.2
55°	515.3	485.2	456.8	437.0	424.7	419.8	414.3	414.8	413.7	414.8	414.8
57.5°	462.4	435.3	408.9	393.3	382.5	375.3	369.3	371.0	369.2	368.9	367.9
60°	428.5	398.9	377.9	363.7	351.3	345.2	339.7	340.9	339.0	337.8	335.4
62.5°	391.5	366.8	346.8	333.1	323.2	316.1	310.6	309.3	305.1	300.9	295.4
65°	337.8	317.4	299.6	286.7	277.4	271.9	267.5	263.9	254.6	244.7	239.8
67.5°	285.7	271.0	254.3	243.3	235.9	228.5	220.3	214.0	205.4	200.0	196.9
70°	252.1	237.9	223.7	213.3	205.3	198.5	189.2	184.9	178.8	176.3	173.3
72.5°	220.1	206.9	193.7	184.2	175.7	170.4	163.1	158.8	156.0	155.1	152.0
75°	171.4	160.9	151.1	142.4	135.6	131.9	128.9	125.7	124.5	119.0	115.9
77.5°	125.0	118.2	111.9	105.8	100.9	98.5	92.6	89.0	86.9	84.4	83.7
80°	97.4	92.5	86.3	82.6	75.8	73.4	70.9	70.3	69.6	69.0	68.4
82.5°	73.2	68.3	62.2	59.9	58.1	56.6	55.1	54.5	53.9	54.2	54.1
85°	37.0	34.5	34.5	33.9	33.3	32.6	32.0	32.0	31.5	32.0	31.5
87.5°	15.8	15.9	16.3	15.8	16.8	17.3	17.1	17.5	18.4	17.7	17.9
90°	17.2	20.1	22.4	24.8	27.2	29.6	31.4	33.2	35.0	36.7	38.0
92.5°	17.7	18.9	21.3	23.7	26.1	28.5	30.3	32.1	33.9	35.7	36.6
95°	33.3	28.4	28.7	29.0	29.2	29.6	31.4	33.2	35.0	36.7	37.8
97.5°	182.4	168.9	135.5	102.2	68.8	35.5	35.7	35.8	36.0	36.2	36.5
100°	242.0	224.1	182.9	141.6	100.4	59.2	54.1	49.0	44.0	38.9	36.5
102.5°	307.3	306.6	301.2	295.9	290.4	285.1	230.2	175.5	120.6	65.9	38.5
105°	412.0	413.6	415.1	416.6	418.0	419.5	422.2	424.9	427.7	430.3	426.2
107.5°	513.5	515.0	517.0	519.1	521.0	523.1	524.4	525.8	527.1	528.3	529.6
110°	584.5	585.9	587.6	589.4	591.2	593.0	593.6	594.2	594.9	595.4	596.2



TEST NUMBER: P333091-940

CATALOG NUMBER: S124RDIW-S1020D1560U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	656.2	657.5	658.3	659.2	660.0	660.8	660.7	660.6	660.4	660.3	660.8
115°	759.3	759.6	759.3	759.0	758.8	758.4	759.0	759.6	760.2	760.8	761.2
117.5°	856.0	856.9	857.6	858.3	858.9	859.5	859.4	859.3	859.2	859.1	859.0
120°	920.5	921.0	920.7	920.4	920.1	919.8	920.4	921.0	921.6	922.2	922.2
122.5°	978.9	979.5	979.9	980.3	980.7	981.1	981.5	981.9	982.2	982.6	982.4
125°	1067.1	1067.4	1066.8	1066.2	1065.6	1065.1	1066.0	1066.8	1067.7	1068.6	1069.3
127.5°	1145.3	1146.1	1147.5	1148.9	1150.2	1151.6	1151.5	1151.3	1151.1	1150.9	1150.7
130°	1198.0	1198.6	1199.5	1200.4	1201.3	1202.2	1202.5	1202.8	1203.1	1203.4	1203.5
132.5°	1247.4	1248.2	1249.4	1250.4	1251.6	1252.8	1253.0	1253.4	1253.7	1253.9	1254.0
135°	1316.6	1317.1	1318.3	1319.5	1320.7	1321.9	1322.5	1323.0	1323.7	1324.3	1324.9
137.5°	1382.6	1383.3	1384.6	1386.0	1387.2	1388.6	1389.2	1389.9	1390.5	1391.2	1391.4
140°	1426.5	1427.1	1427.6	1428.3	1428.9	1429.4	1430.4	1431.3	1432.2	1433.1	1433.6
142.5°	1466.1	1466.8	1467.1	1467.5	1467.8	1468.2	1468.8	1469.5	1470.2	1470.8	1471.1
145°	1523.1	1523.6	1523.6	1523.6	1523.6	1523.6	1523.8	1524.2	1524.5	1524.7	1525.3
147.5°	1572.3	1572.9	1572.6	1572.4	1572.0	1571.7	1572.0	1572.2	1572.4	1572.7	1573.0
150°	1603.7	1604.1	1603.8	1603.6	1603.2	1602.9	1602.9	1602.9	1602.9	1602.9	1603.1
152.5°	1630.7	1630.9	1630.3	1629.8	1629.2	1628.7	1629.2	1629.7	1630.1	1630.7	1630.8
155°	1667.3	1667.1	1666.2	1665.3	1664.4	1663.4	1664.6	1665.8	1667.1	1668.2	1668.4
157.5°	1698.5	1697.9	1696.8	1695.9	1694.9	1693.8	1695.4	1696.9	1698.5	1700.0	1700.0
160°	1715.0	1714.4	1714.0	1713.8	1713.5	1713.2	1715.0	1716.8	1718.6	1720.4	1720.4
162.5°	1731.3	1730.5	1730.2	1729.9	1729.7	1729.3	1731.1	1733.0	1734.7	1736.5	1736.3
165°	1751.6	1750.9	1750.9	1750.9	1750.9	1750.9	1753.2	1755.6	1758.0	1760.4	1760.2
167.5°	1768.5	1767.7	1767.5	1767.4	1767.2	1767.0	1769.6	1772.3	1774.9	1777.5	1777.4
170°	1777.3	1776.6	1776.8	1777.2	1777.4	1777.7	1780.1	1782.5	1784.9	1787.3	1787.0
172.5°	1783.8	1783.0	1783.3	1783.6	1783.9	1784.2	1786.5	1789.0	1791.4	1793.8	1793.3
175°	1790.7	1790.0	1790.3	1790.6	1790.9	1791.2	1793.9	1796.5	1799.3	1802.0	1801.5
177.5°	1794.5	1793.9	1794.3	1794.8	1795.3	1795.7	1797.7	1799.6	1801.5	1803.4	1803.0
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



TEST NUMBER: P333091-940

CATALOG NUMBER: S124RDIW-S1020D1560U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1460.4	1461.4	1458.0	1457.1	1458.0	1461.4	1460.4	1463.5	1463.9	1467.8	1466.4
5°	1355.0	1353.7	1350.6	1351.2	1350.6	1353.7	1355.0	1359.9	1362.4	1372.2	1371.0
7.5°	1264.7	1259.9	1261.2	1256.3	1261.2	1259.9	1264.7	1269.2	1276.7	1281.1	1291.6
10°	1209.4	1202.7	1197.1	1192.2	1197.1	1202.7	1209.4	1211.9	1222.4	1227.4	1237.8
12.5°	1134.0	1128.2	1120.7	1122.2	1120.7	1128.2	1134.0	1144.9	1158.3	1168.7	1185.1
15°	1027.0	1017.7	1003.0	1004.8	1003.0	1017.7	1027.0	1035.0	1048.6	1072.0	1083.1
17.5°	936.4	936.5	929.7	931.3	929.7	936.5	936.4	947.4	954.2	969.2	986.1
20°	889.6	885.2	885.8	884.0	885.8	885.2	889.6	902.5	909.9	920.3	938.9
22.5°	857.0	851.7	847.4	843.6	847.4	851.7	857.0	860.6	870.4	880.4	895.5
25°	802.0	798.3	792.7	791.5	792.7	798.3	802.0	807.5	812.4	825.5	834.6
27.5°	753.7	753.0	750.7	747.9	750.7	753.0	753.7	758.6	765.0	773.3	785.0
30°	725.6	724.3	723.1	721.2	723.1	724.3	725.6	730.5	735.4	742.2	751.4
32.5°	700.4	699.6	698.4	698.6	698.4	699.6	700.4	702.8	705.8	714.6	721.8
35°	664.5	663.9	662.7	662.1	662.7	663.9	664.5	667.0	668.9	671.3	677.4
37.5°	631.0	632.6	631.9	631.7	631.9	632.6	631.0	631.6	629.6	634.1	638.3
40°	607.8	608.4	609.7	609.0	609.7	608.4	607.8	608.4	608.4	608.4	612.2
42.5°	588.6	588.7	590.4	588.4	590.4	588.7	588.6	586.2	583.3	583.8	585.0
45°	554.2	557.9	557.2	557.2	557.2	557.9	554.2	549.8	549.3	546.8	546.8
47.5°	516.6	519.8	520.7	520.5	520.7	519.8	516.6	515.0	512.1	509.7	509.4
50°	492.0	490.7	492.6	492.0	492.6	490.7	492.0	488.8	484.6	484.6	483.3
52.5°	461.8	462.1	462.0	461.4	462.0	462.1	461.8	460.2	458.4	456.4	455.7
55°	415.4	416.1	414.8	415.4	414.8	416.1	415.4	414.8	414.8	413.7	414.8
57.5°	365.2	362.2	363.5	361.9	363.5	362.2	365.2	367.9	368.9	369.2	371.0
60°	329.2	324.2	323.0	320.6	323.0	324.2	329.2	335.4	337.8	339.0	340.9
62.5°	288.7	285.3	281.1	283.0	281.1	285.3	288.7	295.4	300.9	305.1	309.3
65°	234.9	232.4	230.5	233.0	230.5	232.4	234.9	239.8	244.7	254.6	263.9
67.5°	194.4	193.1	193.1	191.8	193.1	193.1	194.4	196.9	200.0	205.4	214.0
70°	173.3	171.4	171.4	170.1	171.4	171.4	173.3	173.3	176.3	178.8	184.9
72.5°	151.5	149.6	150.2	149.5	150.2	149.6	151.5	152.0	155.1	156.0	158.8
75°	112.2	109.1	109.1	109.8	109.1	109.1	112.2	115.9	119.0	124.5	125.7
77.5°	83.7	83.1	84.0	82.8	84.0	83.1	83.7	83.7	84.4	86.9	89.0
80°	68.4	67.8	67.2	69.0	67.2	67.8	68.4	68.4	69.0	69.6	70.3
82.5°	53.1	53.1	52.9	55.2	52.9	53.1	53.1	54.1	54.2	53.9	54.5
85°	32.0	30.9	32.0	30.9	32.0	30.9	32.0	31.5	32.0	31.5	32.0
87.5°	19.1	18.6	18.3	18.9	18.3	18.6	19.1	17.9	17.7	18.4	17.5
90°	38.5	39.1	39.8	40.3	39.8	39.1	38.5	38.0	36.7	35.0	33.2
92.5°	36.7	36.9	37.0	37.1	37.0	36.9	36.7	36.6	35.7	33.9	32.1
95°	38.1	38.4	38.7	39.0	38.7	38.4	38.1	37.8	36.7	35.0	33.2
97.5°	36.7	37.1	37.4	37.6	37.4	37.1	36.7	36.5	36.2	36.0	35.8
100°	36.7	37.1	37.4	37.6	37.4	37.1	36.7	36.5	38.9	44.0	49.0
102.5°	38.5	38.6	38.7	38.7	38.7	38.6	38.5	38.5	65.9	120.6	175.5
105°	415.5	404.7	394.0	383.3	394.0	404.7	415.5	426.2	430.3	427.7	424.9
107.5°	530.7	531.8	533.0	534.1	533.0	531.8	530.7	529.6	528.3	527.1	525.8
110°	597.1	598.0	598.9	599.8	598.9	598.0	597.1	596.2	595.4	594.9	594.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	662.0	663.1	664.2	665.4	664.2	663.1	662.0	660.8	660.3	660.4	660.6
115°	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	760.8	760.2	759.6
117.5°	858.8	858.7	858.6	858.4	858.6	858.7	858.8	859.0	859.1	859.2	859.3
120°	921.6	921.0	920.4	919.8	920.4	921.0	921.6	922.2	922.2	921.6	921.0
122.5°	981.9	981.2	980.6	980.1	980.6	981.2	981.9	982.4	982.6	982.2	981.9
125°	1069.5	1069.8	1070.1	1070.4	1070.1	1069.8	1069.5	1069.3	1068.6	1067.7	1066.8
127.5°	1150.5	1150.2	1150.0	1149.8	1150.0	1150.2	1150.5	1150.7	1150.9	1151.1	1151.3
130°	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.5	1203.4	1203.1	1202.8
132.5°	1253.7	1253.5	1253.3	1253.0	1253.3	1253.5	1253.7	1254.0	1253.9	1253.7	1253.4
135°	1325.4	1326.1	1326.7	1327.2	1326.7	1326.1	1325.4	1324.9	1324.3	1323.7	1323.0
137.5°	1391.2	1391.1	1390.9	1390.7	1390.9	1391.1	1391.2	1391.4	1391.2	1390.5	1389.9
140°	1434.0	1434.2	1434.5	1434.9	1434.5	1434.2	1434.0	1433.6	1433.1	1432.2	1431.3
142.5°	1471.2	1471.3	1471.3	1471.4	1471.3	1471.3	1471.2	1471.1	1470.8	1470.2	1469.5
145°	1525.8	1526.4	1527.1	1527.6	1527.1	1526.4	1525.8	1525.3	1524.7	1524.5	1524.2
147.5°	1573.2	1573.5	1573.9	1574.1	1573.9	1573.5	1573.2	1573.0	1572.7	1572.4	1572.2
150°	1603.4	1603.7	1604.0	1604.3	1604.0	1603.7	1603.4	1603.1	1602.9	1602.9	1602.9
152.5°	1630.6	1630.4	1630.2	1630.0	1630.2	1630.4	1630.6	1630.8	1630.7	1630.1	1629.7
155°	1667.5	1666.6	1665.7	1664.8	1665.7	1666.6	1667.5	1668.4	1668.2	1667.1	1665.8
157.5°	1698.5	1696.9	1695.4	1693.8	1695.4	1696.9	1698.5	1700.0	1700.0	1698.5	1696.9
160°	1718.6	1716.8	1715.0	1713.2	1715.0	1716.8	1718.6	1720.4	1720.4	1718.6	1716.8
162.5°	1734.4	1732.3	1730.3	1728.2	1730.3	1732.3	1734.4	1736.3	1736.5	1734.7	1733.0
165°	1757.6	1754.9	1752.2	1749.5	1752.2	1754.9	1757.6	1760.2	1760.4	1758.0	1755.6
167.5°	1774.3	1771.4	1768.4	1765.4	1768.4	1771.4	1774.3	1777.4	1777.5	1774.9	1772.3
170°	1784.0	1781.0	1778.1	1775.0	1778.1	1781.0	1784.0	1787.0	1787.3	1784.9	1782.5
172.5°	1790.1	1786.9	1783.7	1780.4	1783.7	1786.9	1790.1	1793.3	1793.8	1791.4	1789.0
175°	1797.9	1794.3	1790.7	1787.2	1790.7	1794.3	1797.9	1801.5	1802.0	1799.3	1796.5
177.5°	1800.1	1797.2	1794.3	1791.4	1794.3	1797.2	1800.1	1803.0	1803.4	1801.5	1799.6
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1463.5	1466.9	1474.8	1483.6	1491.0	1497.4	1502.4	1509.3	1515.7	1524.6	1532.9
5°	1374.7	1383.3	1395.6	1410.4	1428.9	1441.3	1456.7	1470.3	1490.0	1509.7	1528.7
7.5°	1296.7	1306.3	1324.4	1344.8	1366.8	1387.0	1405.2	1429.1	1455.3	1484.0	1516.1
10°	1246.4	1257.0	1278.5	1301.9	1327.8	1347.6	1372.2	1400.5	1430.1	1465.3	1504.8
12.5°	1201.0	1211.0	1237.1	1261.0	1287.9	1309.6	1338.2	1367.0	1406.5	1444.6	1489.4
15°	1112.7	1139.2	1168.8	1197.1	1229.2	1255.7	1290.2	1319.8	1357.5	1411.0	1462.2
17.5°	1014.5	1042.8	1079.5	1123.3	1166.3	1199.1	1234.1	1270.9	1315.6	1370.4	1429.4
20°	957.3	980.2	1020.8	1069.5	1119.5	1165.1	1197.1	1237.8	1284.1	1343.3	1404.3
22.5°	914.4	933.8	965.6	1014.3	1068.2	1121.1	1162.1	1202.3	1253.5	1312.7	1379.1
25°	850.1	871.0	898.8	932.1	993.7	1049.8	1103.4	1149.7	1203.9	1263.1	1337.0
27.5°	796.6	814.8	840.2	874.9	916.3	978.2	1043.1	1095.9	1151.6	1215.0	1289.1
30°	765.0	779.8	800.8	835.9	875.4	930.9	996.8	1058.5	1114.5	1180.4	1257.6
32.5°	732.0	747.8	768.2	795.9	838.4	884.9	950.9	1018.5	1078.1	1145.5	1221.0
35°	688.0	700.3	718.8	747.2	785.3	826.0	884.6	954.2	1017.2	1089.2	1161.4
37.5°	643.5	658.0	672.5	697.9	729.2	772.9	820.8	892.0	961.6	1027.5	1097.9
40°	618.3	627.0	642.9	663.3	696.6	735.4	780.4	850.1	919.7	985.1	1056.0
42.5°	590.2	599.8	613.3	633.7	663.5	701.4	745.4	805.7	878.3	941.6	1006.1
45°	551.1	556.6	570.2	587.5	612.2	650.3	691.1	744.7	813.1	873.5	930.2
47.5°	511.7	516.5	525.0	540.7	568.4	599.1	637.1	685.3	745.3	805.7	853.6
50°	484.6	488.8	496.9	511.7	536.3	566.5	604.1	647.3	700.9	758.8	798.9
52.5°	457.4	459.8	467.3	484.0	504.7	534.5	568.1	607.8	658.0	706.1	746.6
55°	414.3	419.8	424.7	437.0	456.8	485.2	515.3	552.9	591.8	632.5	667.0
57.5°	369.3	375.3	382.5	393.3	408.9	435.3	462.4	492.9	526.1	559.8	588.8
60°	339.7	345.2	351.3	363.7	377.9	398.9	428.5	455.0	480.2	511.0	540.0
62.5°	310.6	316.1	323.2	333.1	346.8	366.8	391.5	414.5	440.8	467.6	489.2
65°	267.5	271.9	277.4	286.7	299.6	317.4	337.8	355.7	379.2	398.9	418.6
67.5°	220.3	228.5	235.9	243.3	254.3	271.0	285.7	302.8	318.7	333.4	351.3
70°	189.2	198.5	205.3	213.3	223.7	237.9	252.1	263.9	276.8	291.0	307.0
72.5°	163.1	170.4	175.7	184.2	193.7	206.9	220.1	229.8	240.3	250.0	265.6
75°	128.9	131.9	135.6	142.4	151.1	160.9	171.4	180.0	186.2	194.8	205.9
77.5°	92.6	98.5	100.9	105.8	111.9	118.2	125.0	132.3	138.2	141.2	149.8
80°	70.9	73.4	75.8	82.6	86.3	92.5	97.4	104.2	106.6	109.8	117.7
82.5°	55.1	56.6	58.1	59.9	62.2	68.3	73.2	77.6	80.0	81.1	87.2
85°	32.0	32.6	33.3	33.9	34.5	34.5	37.0	40.0	44.4	44.4	46.2
87.5°	17.1	17.3	16.8	15.8	16.3	15.9	15.8	15.1	16.0	16.8	17.6
90°	31.4	29.6	27.2	24.8	22.4	20.1	17.2	13.9	10.6	7.3	4.0
92.5°	30.3	28.5	26.1	23.7	21.3	18.9	17.7	17.5	17.3	17.1	16.9
95°	31.4	29.6	29.2	29.0	28.7	28.4	33.3	43.5	53.7	63.8	73.9
97.5°	35.7	35.5	68.8	102.2	135.5	168.9	182.4	176.1	169.7	163.4	157.0
100°	54.1	59.2	100.4	141.6	182.9	224.1	242.0	236.7	231.3	226.0	220.5
102.5°	230.2	285.1	290.4	295.9	301.2	306.6	307.3	303.4	299.4	295.5	291.5
105°	422.2	419.5	418.0	416.6	415.1	413.6	412.0	410.2	408.3	406.5	404.7
107.5°	524.4	523.1	521.0	519.1	517.0	515.0	513.5	512.6	511.8	510.9	509.9
110°	593.6	593.0	591.2	589.4	587.6	585.9	584.5	583.6	582.7	581.8	580.9



TEST NUMBER: P333091-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	660.7	660.8	660.0	659.2	658.3	657.5	656.2	654.6	653.0	651.4	649.8
115°	759.0	758.4	758.8	759.0	759.3	759.6	759.3	758.4	757.5	756.6	755.7
117.5°	859.4	859.5	858.9	858.3	857.6	856.9	856.0	854.8	853.6	852.4	851.2
120°	920.4	919.8	920.1	920.4	920.7	921.0	920.5	919.4	918.2	916.9	915.8
122.5°	981.5	981.1	980.7	980.3	979.9	979.5	978.9	978.1	977.4	976.7	976.0
125°	1066.0	1065.1	1065.6	1066.2	1066.8	1067.4	1067.1	1066.0	1064.7	1063.5	1062.4
127.5°	1151.5	1151.6	1150.2	1148.9	1147.5	1146.1	1145.3	1145.0	1144.7	1144.4	1144.1
130°	1202.5	1202.2	1201.3	1200.4	1199.5	1198.6	1198.0	1197.7	1197.4	1197.1	1196.9
132.5°	1253.0	1252.8	1251.6	1250.4	1249.4	1248.2	1247.4	1246.9	1246.3	1245.7	1245.2
135°	1322.5	1321.9	1320.7	1319.5	1318.3	1317.1	1316.6	1317.0	1317.2	1317.5	1317.9
137.5°	1389.2	1388.6	1387.2	1386.0	1384.6	1383.3	1382.6	1382.5	1382.3	1382.2	1382.2
140°	1430.4	1429.4	1428.9	1428.3	1427.6	1427.1	1426.5	1425.8	1425.3	1424.7	1424.1
142.5°	1468.8	1468.2	1467.8	1467.5	1467.1	1466.8	1466.1	1465.0	1463.9	1462.8	1461.7
145°	1523.8	1523.6	1523.6	1523.6	1523.6	1523.6	1523.1	1522.2	1521.3	1520.5	1519.6
147.5°	1572.0	1571.7	1572.0	1572.4	1572.6	1572.9	1572.3	1570.6	1568.9	1567.2	1565.6
150°	1602.9	1602.9	1603.2	1603.6	1603.8	1604.1	1603.7	1602.5	1601.2	1600.1	1598.9
152.5°	1629.2	1628.7	1629.2	1629.8	1630.3	1630.9	1630.7	1629.7	1628.8	1627.8	1626.8
155°	1664.6	1663.4	1664.4	1665.3	1666.2	1667.1	1667.3	1667.1	1666.7	1666.4	1666.2
157.5°	1695.4	1693.8	1694.9	1695.9	1696.8	1697.9	1698.5	1698.7	1698.9	1699.1	1699.2
160°	1715.0	1713.2	1713.5	1713.8	1714.0	1714.4	1715.0	1715.9	1716.8	1717.7	1718.6
162.5°	1731.1	1729.3	1729.7	1729.9	1730.2	1730.5	1731.3	1732.4	1733.5	1734.6	1735.8
165°	1753.2	1750.9	1750.9	1750.9	1750.9	1750.9	1751.6	1753.1	1754.6	1756.0	1757.6
167.5°	1769.6	1767.0	1767.2	1767.4	1767.5	1767.7	1768.5	1770.1	1771.7	1773.3	1774.8
170°	1780.1	1777.7	1777.4	1777.2	1776.8	1776.6	1777.3	1779.1	1780.8	1782.7	1784.5
172.5°	1786.5	1784.2	1783.9	1783.6	1783.3	1783.0	1783.8	1785.6	1787.3	1789.1	1790.9
175°	1793.9	1791.2	1790.9	1790.6	1790.3	1790.0	1790.7	1792.5	1794.3	1796.1	1797.9
177.5°	1797.7	1795.7	1795.3	1794.8	1794.3	1793.9	1794.5	1796.1	1797.8	1799.5	1801.2
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



TEST NUMBER: P333091-940

CATALOG NUMBER: S124RDIW-S1020D1560U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1539.4	1543.8	1548.7	1558.1	1566.0	1569.5	1576.4	1581.3	1579.8	1586.7	1598.6
5°	1545.4	1562.1	1581.2	1600.9	1623.1	1641.6	1656.4	1671.2	1682.9	1697.1	1718.1
7.5°	1544.4	1574.0	1606.2	1641.6	1677.9	1709.4	1738.5	1768.1	1794.3	1823.1	1860.6
10°	1540.5	1579.9	1620.0	1666.3	1712.4	1756.2	1795.7	1832.6	1867.9	1905.4	1952.9
12.5°	1536.1	1581.4	1629.9	1685.5	1743.0	1795.7	1842.1	1895.3	1939.3	1987.8	2042.6
15°	1516.4	1577.4	1643.4	1715.6	1784.6	1855.5	1919.0	1984.3	2045.3	2103.3	2172.4
17.5°	1494.0	1564.4	1642.2	1727.4	1810.4	1896.6	1971.8	2054.2	2116.7	2194.4	2258.5
20°	1475.8	1551.6	1634.8	1730.4	1824.7	1920.2	2003.4	2087.3	2157.6	2235.9	2317.2
22.5°	1453.6	1536.8	1626.9	1725.9	1824.7	1929.1	2021.2	2104.5	2191.6	2279.7	2363.6
25°	1417.8	1504.1	1599.6	1708.2	1821.6	1928.2	2026.9	2130.4	2224.1	2319.7	2394.9
27.5°	1373.9	1464.5	1565.3	1677.2	1793.6	1902.8	2019.0	2129.3	2223.7	2315.6	2381.2
30°	1338.9	1434.5	1531.2	1644.7	1765.5	1882.6	2007.2	2117.5	2216.7	2299.4	2336.3
32.5°	1302.9	1393.6	1493.3	1608.2	1732.0	1858.0	1981.5	2094.3	2186.1	2235.7	2236.7
35°	1240.3	1325.3	1428.9	1541.8	1668.7	1805.5	1930.7	2041.7	2097.7	2102.0	2041.7
37.5°	1172.0	1250.0	1347.8	1460.7	1599.8	1735.9	1863.8	1937.7	1956.5	1893.7	1782.0
40°	1123.2	1195.2	1289.6	1405.5	1543.6	1684.1	1800.6	1854.8	1835.1	1733.4	1608.9
42.5°	1071.8	1139.1	1229.9	1344.3	1482.9	1625.0	1724.2	1753.3	1701.0	1583.5	1437.8
45°	988.2	1049.8	1139.8	1255.1	1388.2	1521.3	1596.6	1581.8	1494.9	1355.6	1192.2
47.5°	901.0	960.6	1041.5	1148.2	1284.5	1399.5	1450.4	1405.8	1282.1	1128.8	996.0
50°	843.3	904.3	978.9	1080.7	1205.1	1316.1	1348.8	1280.9	1143.5	996.1	874.1
52.5°	786.6	838.7	911.9	1010.1	1129.2	1222.9	1240.3	1162.1	1020.2	888.1	779.9
55°	700.3	747.8	809.4	901.9	1004.8	1084.3	1075.0	974.6	845.8	733.0	647.9
57.5°	616.8	652.6	709.5	796.2	886.5	940.0	906.2	820.5	700.4	608.1	536.3
60°	561.6	594.9	647.9	723.7	803.3	833.4	805.0	712.0	617.1	532.6	472.2
62.5°	509.3	538.7	584.2	654.7	718.9	736.7	706.4	625.2	539.7	467.5	417.5
65°	433.4	460.5	499.4	549.3	593.6	602.3	582.6	499.4	434.6	374.2	339.7
67.5°	364.4	382.2	412.5	455.7	479.2	484.3	446.2	393.9	336.8	299.7	273.7
70°	318.1	330.4	358.7	382.2	401.3	401.9	366.8	324.9	281.1	250.9	231.8
72.5°	273.2	285.1	306.5	322.5	337.2	332.4	300.2	267.2	231.8	209.0	194.8
75°	210.8	221.3	232.4	239.8	239.8	233.6	210.2	185.6	165.2	151.7	147.3
77.5°	153.3	161.8	165.6	164.4	162.3	152.7	137.9	121.7	114.4	108.0	104.8
80°	120.2	123.9	125.1	122.1	118.3	107.3	97.4	90.6	83.8	81.4	80.2
82.5°	89.2	92.4	89.2	90.0	81.9	72.8	67.3	65.0	62.2	61.2	59.9
85°	47.4	46.8	45.7	42.5	37.0	35.8	35.1	34.5	33.3	33.9	32.6
87.5°	17.7	16.9	15.6	15.8	16.3	15.8	16.8	17.3	17.7	17.7	19.0
90°	7.3	10.6	13.9	17.2	20.1	22.4	24.8	27.2	29.6	31.4	33.2
92.5°	17.1	17.3	17.5	17.7	18.9	21.3	23.7	26.1	28.5	30.3	32.1
95°	63.8	53.7	43.5	33.3	28.4	28.7	29.0	29.2	29.6	31.4	33.2
97.5°	163.4	169.7	176.1	182.4	168.9	135.5	102.2	68.8	35.5	35.7	35.8
100°	226.0	231.3	236.7	242.0	224.1	182.9	141.6	100.4	59.2	54.1	49.0
102.5°	295.5	299.4	303.4	307.3	306.6	301.2	295.9	290.4	285.1	230.2	175.5
105°	406.5	408.3	410.2	412.0	413.6	415.1	416.6	418.0	419.5	422.2	424.9
107.5°	510.9	511.8	512.6	513.5	515.0	517.0	519.1	521.0	523.1	524.4	525.8
110°	581.8	582.7	583.6	584.5	585.9	587.6	589.4	591.2	593.0	593.6	594.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	651.4	653.0	654.6	656.2	657.5	658.3	659.2	660.0	660.8	660.7	660.6
115°	756.6	757.5	758.4	759.3	759.6	759.3	759.0	758.8	758.4	759.0	759.6
117.5°	852.4	853.6	854.8	856.0	856.9	857.6	858.3	858.9	859.5	859.4	859.3
120°	916.9	918.2	919.4	920.5	921.0	920.7	920.4	920.1	919.8	920.4	921.0
122.5°	976.7	977.4	978.1	978.9	979.5	979.9	980.3	980.7	981.1	981.5	981.9
125°	1063.5	1064.7	1066.0	1067.1	1067.4	1066.8	1066.2	1065.6	1065.1	1066.0	1066.8
127.5°	1144.4	1144.7	1145.0	1145.3	1146.1	1147.5	1148.9	1150.2	1151.6	1151.5	1151.3
130°	1197.1	1197.4	1197.7	1198.0	1198.6	1199.5	1200.4	1201.3	1202.2	1202.5	1202.8
132.5°	1245.7	1246.3	1246.9	1247.4	1248.2	1249.4	1250.4	1251.6	1252.8	1253.0	1253.4
135°	1317.5	1317.2	1317.0	1316.6	1317.1	1318.3	1319.5	1320.7	1321.9	1322.5	1323.0
137.5°	1382.2	1382.3	1382.5	1382.6	1383.3	1384.6	1386.0	1387.2	1388.6	1389.2	1389.9
140°	1424.7	1425.3	1425.8	1426.5	1427.1	1427.6	1428.3	1428.9	1429.4	1430.4	1431.3
142.5°	1462.8	1463.9	1465.0	1466.1	1466.8	1467.1	1467.5	1467.8	1468.2	1468.8	1469.5
145°	1520.5	1521.3	1522.2	1523.1	1523.6	1523.6	1523.6	1523.6	1523.6	1523.8	1524.2
147.5°	1567.2	1568.9	1570.6	1572.3	1572.9	1572.6	1572.4	1572.0	1571.7	1572.0	1572.2
150°	1600.1	1601.2	1602.5	1603.7	1604.1	1603.8	1603.6	1603.2	1602.9	1602.9	1602.9
152.5°	1627.8	1628.8	1629.7	1630.7	1630.9	1630.3	1629.8	1629.2	1628.7	1629.2	1629.7
155°	1666.4	1666.7	1667.1	1667.3	1667.1	1666.2	1665.3	1664.4	1663.4	1664.6	1665.8
157.5°	1699.1	1698.9	1698.7	1698.5	1697.9	1696.8	1695.9	1694.9	1693.8	1695.4	1696.9
160°	1717.7	1716.8	1715.9	1715.0	1714.4	1714.0	1713.8	1713.5	1713.2	1715.0	1716.8
162.5°	1734.6	1733.5	1732.4	1731.3	1730.5	1730.2	1729.9	1729.7	1729.3	1731.1	1733.0
165°	1756.0	1754.6	1753.1	1751.6	1750.9	1750.9	1750.9	1750.9	1750.9	1753.2	1755.6
167.5°	1773.3	1771.7	1770.1	1768.5	1767.7	1767.5	1767.4	1767.2	1767.0	1769.6	1772.3
170°	1782.7	1780.8	1779.1	1777.3	1776.6	1776.8	1777.2	1777.4	1777.7	1780.1	1782.5
172.5°	1789.1	1787.3	1785.6	1783.8	1783.0	1783.3	1783.6	1783.9	1784.2	1786.5	1789.0
175°	1796.1	1794.3	1792.5	1790.7	1790.0	1790.3	1790.6	1790.9	1791.2	1793.9	1796.5
177.5°	1799.5	1797.8	1796.1	1794.5	1793.9	1794.3	1794.8	1795.3	1795.7	1797.7	1799.6
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1605.0	1607.0	1608.5	1613.4	1613.8	1618.3	1613.8
5°	1737.8	1746.4	1760.0	1773.5	1774.8	1783.3	1768.0
7.5°	1886.7	1906.7	1919.1	1941.1	1949.7	1955.1	1946.2
10°	1989.2	2007.8	2040.4	2056.5	2072.5	2074.9	2067.5
12.5°	2088.4	2117.7	2143.5	2173.8	2173.1	2194.8	2186.9
15°	2220.4	2250.7	2286.3	2320.3	2332.6	2332.6	2342.5
17.5°	2314.6	2370.0	2407.0	2433.6	2462.7	2467.7	2464.3
20°	2378.3	2438.0	2477.5	2512.0	2531.7	2537.3	2537.3
22.5°	2425.5	2476.5	2515.0	2546.0	2562.3	2568.8	2566.9
25°	2458.4	2502.1	2525.6	2534.8	2539.1	2537.9	2526.2
27.5°	2413.5	2411.5	2396.7	2368.4	2347.1	2334.1	2319.3
30°	2327.7	2295.6	2258.6	2218.0	2165.6	2125.5	2113.2
32.5°	2199.9	2128.0	2065.3	1997.5	1941.2	1901.1	1884.4
35°	1952.9	1838.9	1745.8	1664.4	1605.3	1568.3	1555.9
37.5°	1659.7	1549.3	1434.1	1355.2	1306.1	1268.7	1254.8
40°	1473.3	1353.1	1252.6	1178.7	1128.1	1091.7	1091.1
42.5°	1303.1	1188.4	1093.9	1040.5	986.1	962.0	961.9
45°	1067.0	975.2	895.1	853.2	820.5	800.8	795.2
47.5°	883.5	807.5	754.1	720.8	694.1	681.5	673.4
50°	780.4	713.8	671.3	642.3	627.5	611.5	610.3
52.5°	694.6	640.9	607.7	584.2	565.4	555.8	556.1
55°	583.8	541.3	517.8	499.9	485.2	477.8	474.7
57.5°	491.8	459.9	442.8	426.4	420.2	414.4	412.8
60°	434.6	413.0	397.0	384.1	374.8	372.9	372.3
62.5°	387.3	364.7	353.6	343.6	336.8	333.9	332.9
65°	319.3	302.6	292.8	284.8	282.3	278.0	277.4
67.5°	257.4	247.4	240.9	235.3	232.0	231.8	231.8
70°	219.5	213.9	208.4	205.3	203.4	202.2	202.2
72.5°	186.9	182.8	178.3	176.6	176.3	175.0	174.6
75°	142.4	138.1	138.7	135.6	133.1	130.1	128.2
77.5°	100.9	97.9	97.3	96.9	94.8	94.4	95.4
80°	78.3	75.2	74.5	75.2	74.5	72.8	72.8
82.5°	59.6	57.0	56.4	56.0	55.4	56.0	55.0
85°	32.0	30.9	30.9	30.9	32.0	31.5	30.9
87.5°	18.4	18.2	18.9	18.5	18.6	18.3	18.9
90°	35.0	36.7	38.0	38.5	39.1	39.8	40.3
92.5°	33.9	35.7	36.6	36.7	36.9	37.0	37.1
95°	35.0	36.7	37.8	38.1	38.4	38.7	39.0
97.5°	36.0	36.2	36.5	36.7	37.1	37.4	37.6
100°	44.0	38.9	36.5	36.7	37.1	37.4	37.6
102.5°	120.6	65.9	38.5	38.5	38.6	38.7	38.7
105°	427.7	430.3	426.2	415.5	404.7	394.0	383.3
107.5°	527.1	528.3	529.6	530.7	531.8	533.0	534.1
110°	594.9	595.4	596.2	597.1	598.0	598.9	599.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	660.4	660.3	660.8	662.0	663.1	664.2	665.4
115°	760.2	760.8	761.2	761.2	761.2	761.2	761.2
117.5°	859.2	859.1	859.0	858.8	858.7	858.6	858.4
120°	921.6	922.2	922.2	921.6	921.0	920.4	919.8
122.5°	982.2	982.6	982.4	981.9	981.2	980.6	980.1
125°	1067.7	1068.6	1069.3	1069.5	1069.8	1070.1	1070.4
127.5°	1151.1	1150.9	1150.7	1150.5	1150.2	1150.0	1149.8
130°	1203.1	1203.4	1203.5	1203.5	1203.5	1203.5	1203.5
132.5°	1253.7	1253.9	1254.0	1253.7	1253.5	1253.3	1253.0
135°	1323.7	1324.3	1324.9	1325.4	1326.1	1326.7	1327.2
137.5°	1390.5	1391.2	1391.4	1391.2	1391.1	1390.9	1390.7
140°	1432.2	1433.1	1433.6	1434.0	1434.2	1434.5	1434.9
142.5°	1470.2	1470.8	1471.1	1471.2	1471.3	1471.3	1471.4
145°	1524.5	1524.7	1525.3	1525.8	1526.4	1527.1	1527.6
147.5°	1572.4	1572.7	1573.0	1573.2	1573.5	1573.9	1574.1
150°	1602.9	1602.9	1603.1	1603.4	1603.7	1604.0	1604.3
152.5°	1630.1	1630.7	1630.8	1630.6	1630.4	1630.2	1630.0
155°	1667.1	1668.2	1668.4	1667.5	1666.6	1665.7	1664.8
157.5°	1698.5	1700.0	1700.0	1698.5	1696.9	1695.4	1693.8
160°	1718.6	1720.4	1720.4	1718.6	1716.8	1715.0	1713.2
162.5°	1734.7	1736.5	1736.3	1734.4	1732.3	1730.3	1728.2
165°	1758.0	1760.4	1760.2	1757.6	1754.9	1752.2	1749.5
167.5°	1774.9	1777.5	1777.4	1774.3	1771.4	1768.4	1765.4
170°	1784.9	1787.3	1787.0	1784.0	1781.0	1778.1	1775.0
172.5°	1791.4	1793.8	1793.3	1790.1	1786.9	1783.7	1780.4
175°	1799.3	1802.0	1801.5	1797.9	1794.3	1790.7	1787.2
177.5°	1801.5	1803.4	1803.0	1800.1	1797.2	1794.3	1791.4
180°	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9	1797.9

(END OF REPORT)