

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: P332824-840

Luminaire Tested: **S124DIW-S1020D1340U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332824-840  
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: S124DIW-S1020D1340U840-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9353.0 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

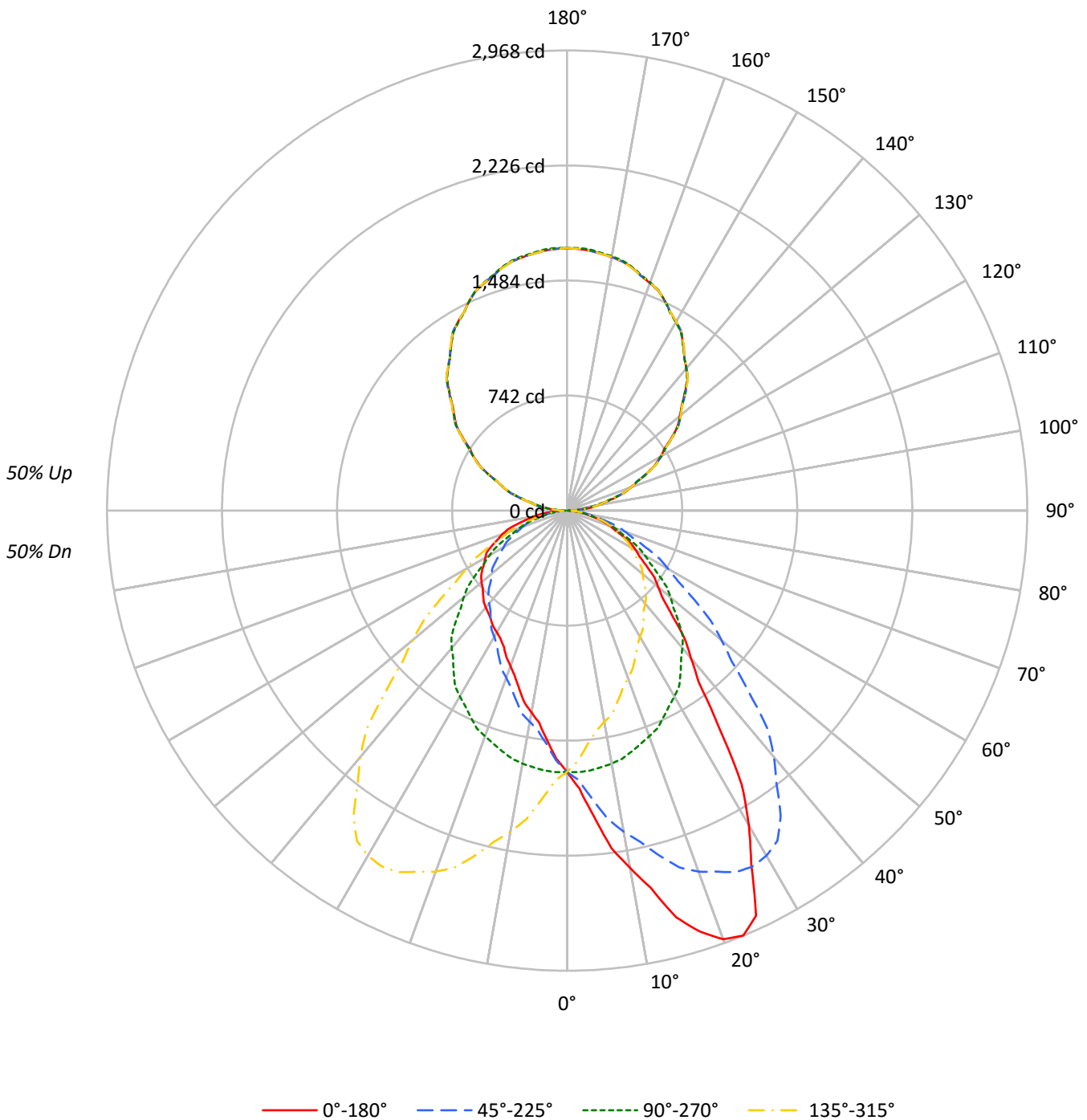
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13

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

	0°	90°	180°	270°
0°	13605	13605	13605	13605
5°	16022	13639	12039	13639
10°	19184	13581	10839	13581
15°	22697	13443	9954	13443
20°	25274	13302	9164	13302
25°	25683	13097	8620	13097
30°	21853	12899	8447	12899
35°	16802	12577	8449	12577
40°	13095	12198	8608	12198
45°	10919	11628	8752	11628
50°	9610	10934	9048	10934
55°	8804	10101	9413	10101
60°	8251	9357	9852	9357
65°	7681	8521	10214	8521
70°	7020	7695	10447	7695
75°	6273	6772	10321	6772
80°	5258	5551	9995	5551
85°	3881	4011	9568	4011



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.2	1.8
10°-20°	506.1	5.4
20°-30°	802.5	8.6
30°-40°	893.1	9.5
40°-50°	812.9	8.7
50°-60°	664.3	7.1
60°-70°	474.2	5.1
70°-80°	261.1	2.8
80°-90°	76.4	0.8
90°-100°	111.7	1.2
100°-110°	330.9	3.5
110°-120°	561.6	6.0
120°-130°	740.5	7.9
130°-140°	831.6	8.9
140°-150°	817.2	8.7
150°-160°	687.3	7.3
160°-170°	457.3	4.9
170°-180°	160.1	1.7
0°-30°	1472.7	15.7
0°-40°	2365.8	25.3
0°-60°	3843.0	41.1
0°-90°	4654.8	49.8
90°-120°	1004.2	10.7
90°-150°	3393.5	36.3
90°-180°	4698.0	50.2
0°-180°	9353.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1685	1685	1685	1685	1685	
5°	1977	1683	1486	1683	1977	201
15°	2716	1608	1191	1608	2716	767
25°	2883	1470	968	1470	2883	1271
35°	1705	1276	857	1276	1705	1082
45°	956	1018	767	1018	956	753
55°	626	718	669	718	626	565
65°	402	446	535	446	402	398
75°	201	217	331	217	201	214
85°	42	43	103	43	42	52
90°	39	4	39	4	39	22
95°	104	79	104	79	104	108
105°	320	305	320	305	320	337
115°	566	571	566	571	566	559
125°	825	832	825	832	825	736
135°	1074	1073	1074	1073	1074	829
145°	1304	1303	1304	1303	1304	816
155°	1492	1493	1492	1493	1492	687
165°	1621	1625	1621	1625	1621	457
175°	1683	1691	1683	1691	1683	160
180°	1693	1693	1693	1693	1693	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1793.6	1793.1	1787.5	1786.4	1782.4	1777.5	1776.4	1767.4	1749.5	1741.1	1738.9
5°	1977.1	1991.0	1972.9	1969.4	1967.3	1944.3	1932.4	1918.4	1886.3	1867.4	1852.8
7.5°	2196.1	2197.7	2189.8	2183.3	2165.6	2145.5	2115.4	2083.3	2045.0	2005.2	1975.1
10°	2340.2	2345.7	2336.6	2335.2	2299.7	2277.2	2232.6	2194.9	2151.6	2103.4	2059.5
12.5°	2492.0	2484.2	2479.6	2449.7	2443.2	2402.4	2350.5	2311.7	2244.9	2189.5	2130.9
15°	2715.7	2700.4	2690.6	2649.4	2629.2	2572.6	2517.4	2474.9	2387.6	2304.5	2241.7
17.5°	2846.9	2862.4	2839.7	2822.8	2770.5	2730.8	2674.4	2585.1	2516.8	2413.6	2334.3
20°	2941.9	2943.3	2930.7	2913.3	2872.1	2821.9	2760.4	2662.6	2581.0	2478.3	2369.4
22.5°	2967.6	2967.9	2962.5	2946.2	2915.1	2874.3	2812.4	2730.8	2631.8	2520.2	2411.4
25°	2883.3	2880.4	2886.8	2904.9	2893.1	2880.4	2844.9	2784.1	2692.0	2573.9	2456.7
27.5°	2569.9	2589.2	2624.6	2669.4	2712.4	2745.2	2754.4	2742.0	2684.8	2587.8	2465.0
30°	2344.3	2368.0	2394.6	2439.2	2525.8	2575.4	2629.9	2671.0	2648.0	2570.5	2456.0
32.5°	2096.4	2102.2	2141.6	2192.4	2271.7	2367.0	2453.4	2537.0	2564.8	2524.2	2428.6
35°	1704.9	1714.5	1757.2	1807.5	1904.5	2021.0	2150.9	2266.8	2362.5	2400.9	2352.0
37.5°	1391.2	1419.3	1449.4	1503.4	1588.8	1693.7	1828.7	1978.6	2121.2	2216.7	2232.9
40°	1242.6	1260.1	1281.7	1322.9	1395.5	1498.8	1614.8	1786.6	1938.0	2074.9	2119.5
42.5°	1125.4	1135.6	1148.8	1186.1	1241.4	1344.1	1450.0	1601.0	1753.1	1916.7	1991.7
45°	956.4	966.9	989.3	1010.9	1052.8	1124.0	1222.4	1346.7	1499.5	1657.4	1795.5
47.5°	834.4	841.1	854.3	877.6	913.1	960.1	1040.2	1144.0	1285.7	1438.9	1586.1
50°	765.2	770.7	781.2	802.1	829.4	871.2	936.9	1033.9	1144.9	1299.2	1443.7
52.5°	710.4	712.7	720.3	734.6	756.2	791.4	845.3	925.5	1028.7	1166.3	1310.2
55°	625.5	628.3	635.3	645.8	664.6	686.9	728.1	788.2	878.3	997.6	1122.6
57.5°	555.7	557.6	563.5	567.5	583.1	601.3	632.9	675.8	744.1	845.3	956.8
60°	511.0	509.7	516.6	520.1	530.6	545.9	570.4	611.6	670.9	752.6	855.2
62.5°	467.5	465.5	471.4	475.9	482.0	495.1	515.0	547.3	595.5	669.3	758.0
65°	402.1	399.3	402.8	408.4	413.9	421.0	435.7	464.2	502.6	555.7	623.4
67.5°	336.5	339.4	340.0	342.7	346.0	355.5	365.6	385.8	412.8	455.3	512.7
70°	297.4	298.1	300.9	300.9	303.0	311.3	319.7	331.6	358.1	397.3	444.0
72.5°	258.3	261.3	260.1	262.4	263.9	269.4	275.6	286.9	309.5	338.6	378.1
75°	201.1	203.2	203.2	203.9	205.9	208.0	212.9	221.3	237.3	259.0	286.2
77.5°	146.6	146.9	147.8	150.4	150.4	153.7	157.3	164.1	172.0	186.8	203.4
80°	113.1	114.5	113.8	115.2	115.2	118.0	119.4	127.7	131.3	141.0	154.3
82.5°	82.9	84.3	84.2	86.1	87.3	87.9	89.8	93.1	96.6	105.2	110.7
85°	41.9	43.3	41.9	43.3	45.3	46.0	48.2	48.9	51.7	53.7	58.7
87.5°	20.1	21.7	21.6	22.0	23.0	23.3	23.5	22.6	24.5	24.7	26.6
90°	39.3	38.7	38.2	37.6	37.0	35.7	34.0	32.3	30.6	28.8	26.5
92.5°	58.2	57.8	57.5	57.1	56.8	56.0	55.0	53.9	52.9	51.9	50.2
95°	103.5	103.5	103.5	103.5	103.5	103.0	102.2	101.3	100.4	99.6	97.5
97.5°	162.2	162.2	162.2	162.2	162.2	161.6	160.6	159.6	158.4	157.4	155.0
100°	203.0	203.0	203.0	203.0	203.0	202.7	202.2	201.6	201.0	200.4	197.7
102.5°	249.1	248.8	248.6	248.4	248.1	247.6	246.8	246.0	245.2	244.4	242.0
105°	319.5	318.7	317.8	316.9	316.1	315.2	314.4	313.5	312.6	311.7	310.5
107.5°	388.2	388.3	388.3	388.4	388.4	388.1	387.2	386.4	385.6	384.8	384.7
110°	437.5	436.6	435.7	434.8	433.9	433.8	434.3	434.9	435.6	436.2	436.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	487.8	487.6	487.4	487.2	487.1	487.0	487.2	487.3	487.4	487.5	488.0
115°	565.8	566.0	566.3	566.6	566.9	567.2	567.5	567.8	568.2	568.4	569.0
117.5°	640.2	640.8	641.4	641.9	642.5	643.3	644.3	645.3	646.2	647.2	647.6
120°	696.7	696.2	695.6	695.0	694.4	694.9	696.3	697.8	699.2	700.6	701.6
122.5°	743.9	745.0	746.0	747.0	748.1	749.1	750.1	751.0	752.0	753.1	753.5
125°	825.1	825.7	826.3	826.9	827.4	828.0	828.6	829.2	829.7	830.3	830.6
127.5°	900.3	900.7	901.2	901.7	902.1	902.6	903.2	903.8	904.4	904.9	905.4
130°	949.5	950.7	951.8	953.0	954.2	955.0	955.6	956.2	956.7	957.4	957.4
132.5°	1001.9	1002.4	1002.8	1003.3	1003.8	1004.3	1004.9	1005.4	1006.0	1006.6	1006.8
135°	1073.9	1074.8	1075.7	1076.5	1077.4	1078.1	1078.7	1079.3	1079.9	1080.5	1080.5
137.5°	1149.6	1149.4	1149.3	1149.1	1148.9	1149.2	1150.0	1150.7	1151.4	1152.3	1151.8
140°	1195.8	1196.0	1196.3	1196.6	1196.9	1197.2	1197.5	1197.8	1198.1	1198.3	1198.3
142.5°	1241.8	1241.9	1241.9	1242.0	1242.0	1242.1	1242.2	1242.2	1242.3	1242.3	1242.6
145°	1304.4	1305.4	1306.2	1307.1	1308.0	1308.5	1308.8	1309.1	1309.4	1309.7	1309.4
147.5°	1367.9	1368.2	1368.4	1368.7	1369.0	1369.3	1369.5	1369.7	1370.0	1370.2	1370.4
150°	1406.6	1406.8	1407.1	1407.4	1407.8	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
152.5°	1442.2	1443.0	1443.7	1444.5	1445.2	1445.3	1444.6	1443.9	1443.2	1442.5	1442.3
155°	1491.8	1492.9	1494.1	1495.2	1496.4	1496.4	1495.2	1494.1	1492.9	1491.8	1492.0
157.5°	1536.0	1537.0	1537.9	1538.9	1539.9	1540.0	1539.1	1538.2	1537.4	1536.5	1536.6
160°	1561.2	1562.6	1564.1	1565.5	1566.9	1567.2	1566.4	1565.5	1564.6	1563.8	1564.1
162.5°	1587.3	1588.8	1590.2	1591.6	1593.2	1593.1	1591.5	1589.9	1588.4	1586.8	1587.1
165°	1621.3	1622.6	1623.7	1624.9	1626.1	1625.8	1624.0	1622.2	1620.5	1618.7	1619.3
167.5°	1645.8	1647.6	1649.3	1651.1	1652.9	1652.9	1651.2	1649.5	1647.8	1646.0	1646.0
170°	1659.4	1661.4	1663.4	1665.5	1667.5	1667.7	1665.9	1664.2	1662.4	1660.6	1660.4
172.5°	1670.9	1672.9	1675.0	1677.0	1679.0	1679.1	1677.1	1675.1	1673.1	1671.1	1671.1
175°	1682.9	1685.0	1687.0	1689.0	1691.1	1691.1	1689.0	1687.0	1685.0	1682.9	1683.2
177.5°	1689.2	1691.1	1692.9	1694.9	1696.7	1696.8	1695.2	1693.5	1691.9	1690.3	1690.3
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1739.5	1731.6	1726.1	1721.6	1709.3	1702.0	1696.5	1688.6	1679.7	1670.2	1658.5
5°	1838.2	1814.4	1797.0	1770.5	1745.3	1724.3	1702.7	1683.1	1659.4	1633.7	1614.8
7.5°	1941.9	1906.6	1861.4	1822.1	1778.0	1739.6	1705.3	1670.0	1633.5	1598.0	1565.5
10°	2007.8	1962.5	1912.2	1852.8	1797.0	1747.4	1701.3	1656.7	1613.4	1570.0	1533.1
12.5°	2078.7	2022.2	1947.9	1878.6	1815.9	1749.7	1694.0	1639.3	1587.1	1541.6	1498.4
15°	2173.9	2092.2	2006.4	1913.6	1831.2	1753.7	1677.6	1608.5	1549.8	1489.8	1447.9
17.5°	2232.5	2131.4	2033.3	1936.2	1836.4	1738.8	1656.7	1576.9	1503.5	1443.9	1391.1
20°	2271.0	2170.5	2048.3	1951.3	1832.6	1732.0	1637.1	1548.4	1471.7	1408.2	1353.6
22.5°	2304.5	2188.4	2066.2	1938.4	1820.3	1713.6	1609.7	1520.6	1442.1	1375.1	1322.9
25°	2322.7	2189.3	2056.7	1929.7	1795.5	1669.2	1575.0	1470.3	1386.4	1316.0	1260.1
27.5°	2324.6	2182.0	2031.9	1890.8	1752.4	1634.8	1515.8	1422.2	1335.2	1260.7	1207.1
30°	2318.4	2169.8	2008.5	1855.6	1716.7	1588.9	1485.6	1383.7	1295.1	1221.0	1165.2
32.5°	2299.0	2144.0	1978.3	1816.5	1672.5	1547.6	1441.0	1344.0	1257.6	1184.7	1126.1
35°	2242.4	2089.5	1912.9	1744.6	1597.3	1471.0	1374.6	1276.2	1189.6	1120.4	1064.0
37.5°	2154.0	2015.8	1836.2	1662.1	1517.4	1390.5	1295.1	1206.1	1128.0	1057.8	999.9
40°	2076.9	1955.4	1775.3	1605.7	1449.4	1328.6	1239.2	1157.5	1080.1	1013.7	958.6
42.5°	1988.1	1882.3	1716.2	1536.4	1385.6	1264.4	1177.2	1103.9	1030.9	969.6	914.4
45°	1829.8	1760.0	1603.6	1437.4	1280.4	1165.9	1082.8	1018.5	957.2	897.1	851.0
47.5°	1647.7	1613.1	1481.5	1323.6	1174.6	1061.7	989.7	930.3	876.5	825.6	785.0
50°	1525.4	1508.6	1394.8	1242.6	1100.2	994.1	921.5	870.6	824.5	779.8	741.4
52.5°	1404.7	1404.2	1301.6	1162.3	1030.5	928.3	856.2	808.6	768.6	732.4	697.8
55°	1220.3	1239.9	1159.6	1035.3	917.4	825.2	760.2	717.7	689.7	659.7	633.9
57.5°	1051.0	1083.4	1017.1	907.7	809.3	724.4	667.8	635.8	606.1	587.9	569.2
60°	940.4	971.1	919.5	827.3	734.5	661.9	608.0	579.5	553.6	541.1	527.8
62.5°	842.1	869.5	831.2	745.8	665.2	595.3	550.0	522.5	505.0	491.3	482.5
65°	701.7	724.7	691.9	629.8	560.6	504.7	467.8	446.1	429.4	423.7	413.9
67.5°	567.1	588.1	570.4	517.6	462.1	419.9	390.9	370.1	360.2	355.4	348.4
70°	487.3	508.3	489.4	443.3	400.7	365.2	337.9	326.0	315.6	313.5	303.7
72.5°	419.7	433.9	415.2	379.1	342.6	312.7	291.5	279.1	273.7	269.9	264.6
75°	314.9	327.4	314.9	286.9	261.1	240.1	222.0	217.1	210.9	208.7	205.2
77.5°	222.9	233.7	224.1	206.6	187.3	171.2	161.4	155.1	153.7	150.1	151.8
80°	170.4	177.3	168.2	156.4	141.0	129.9	122.9	119.4	115.2	113.8	116.5
82.5°	122.3	125.4	120.8	112.8	101.4	94.1	89.4	85.3	84.4	84.7	84.7
85°	63.5	62.8	62.1	55.1	51.7	46.8	44.0	43.3	42.6	44.0	45.3
87.5°	26.1	26.2	25.1	22.3	20.0	17.7	16.5	15.3	16.5	17.7	18.9
90°	24.1	21.8	19.5	16.8	13.5	10.3	7.2	3.9	7.2	10.3	13.5
92.5°	48.6	47.0	45.3	42.7	39.0	35.3	31.7	28.1	31.7	35.3	39.0
95°	95.4	93.4	91.4	89.1	86.4	83.8	81.2	78.6	81.2	83.8	86.4
97.5°	152.7	150.3	147.8	145.6	143.5	141.5	139.4	137.2	139.4	141.5	143.5
100°	195.1	192.5	189.9	188.0	186.8	185.7	184.5	183.4	184.5	185.7	186.8
102.5°	239.6	237.2	234.8	233.4	233.0	232.5	232.1	231.6	232.1	232.5	233.0
105°	309.4	308.2	307.0	306.3	306.0	305.8	305.5	305.2	305.5	305.8	306.0
107.5°	384.5	384.3	384.1	383.8	383.4	383.1	382.7	382.4	382.7	383.1	383.4
110°	436.7	437.0	437.3	437.2	436.6	436.0	435.4	434.8	435.4	436.0	436.6





TEST NUMBER: P332824-840

CATALOG NUMBER: S124DIW-S1020D1340U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	488.5	489.1	489.6	489.8	489.7	489.5	489.4	489.3	489.4	489.5	489.7
115°	569.6	570.2	570.8	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
117.5°	648.0	648.4	648.8	648.9	648.7	648.5	648.2	648.0	648.2	648.5	648.7
120°	702.5	703.3	704.2	704.0	702.9	701.7	700.5	699.3	700.5	701.7	702.9
122.5°	753.9	754.3	754.7	754.7	754.2	753.8	753.3	752.8	753.3	753.8	754.2
125°	830.9	831.2	831.5	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6
127.5°	905.9	906.4	906.9	906.7	905.7	904.9	904.0	903.1	904.0	904.9	905.7
130°	957.4	957.4	957.4	956.9	956.0	955.2	954.3	953.4	954.3	955.2	956.0
132.5°	1007.0	1007.3	1007.5	1007.3	1006.7	1006.0	1005.4	1004.8	1005.4	1006.0	1006.7
135°	1080.5	1080.5	1080.5	1079.6	1077.8	1076.1	1074.4	1072.6	1074.4	1076.1	1077.8
137.5°	1151.3	1150.8	1150.4	1149.7	1148.9	1148.1	1147.3	1146.5	1147.3	1148.1	1148.9
140°	1198.3	1198.3	1198.3	1198.1	1197.5	1196.9	1196.3	1195.8	1196.3	1196.9	1197.5
142.5°	1242.8	1243.0	1243.2	1243.1	1242.5	1241.9	1241.3	1240.8	1241.3	1241.9	1242.5
145°	1309.1	1308.8	1308.5	1307.8	1306.7	1305.5	1304.3	1303.1	1304.3	1305.5	1306.7
147.5°	1370.7	1370.9	1371.1	1370.5	1369.2	1367.8	1366.3	1364.9	1366.3	1367.8	1369.2
150°	1407.9	1407.9	1407.9	1407.3	1406.1	1405.0	1403.8	1402.7	1403.8	1405.0	1406.1
152.5°	1442.0	1441.8	1441.6	1441.1	1440.4	1439.7	1439.0	1438.2	1439.0	1439.7	1440.4
155°	1492.3	1492.6	1492.9	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0
157.5°	1536.6	1536.7	1536.7	1537.0	1537.5	1538.1	1538.6	1539.1	1538.6	1538.1	1537.5
160°	1564.4	1564.6	1564.9	1565.2	1565.5	1565.8	1566.1	1566.4	1566.1	1565.8	1565.5
162.5°	1587.4	1587.7	1588.0	1588.5	1589.2	1590.0	1590.7	1591.5	1590.7	1590.0	1589.2
165°	1619.9	1620.5	1621.1	1621.8	1622.7	1623.6	1624.5	1625.3	1624.5	1623.6	1622.7
167.5°	1645.9	1645.9	1645.8	1646.4	1647.6	1648.8	1650.0	1651.2	1650.0	1648.8	1647.6
170°	1660.1	1659.8	1659.5	1660.1	1661.5	1663.0	1664.5	1665.9	1664.5	1663.0	1661.5
172.5°	1671.0	1671.0	1670.9	1671.5	1672.7	1674.0	1675.2	1676.4	1675.2	1674.0	1672.7
175°	1683.5	1683.8	1684.1	1685.0	1686.5	1687.9	1689.3	1690.8	1689.3	1687.9	1686.5
177.5°	1690.3	1690.3	1690.3	1690.8	1692.0	1693.1	1694.4	1695.5	1694.4	1693.1	1692.0
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1652.8	1647.9	1640.6	1630.5	1622.1	1613.3	1611.0	1607.6	1614.4	1608.7	1607.1
5°	1598.7	1584.1	1565.2	1543.6	1531.0	1512.9	1509.3	1502.4	1495.4	1494.7	1487.7
7.5°	1541.4	1519.8	1495.1	1473.1	1452.7	1432.8	1419.9	1417.0	1406.7	1400.7	1393.7
10°	1504.5	1477.9	1449.4	1428.4	1404.6	1383.7	1369.1	1360.7	1353.6	1345.9	1339.0
12.5°	1460.9	1432.7	1409.1	1386.4	1358.3	1342.3	1318.2	1303.6	1302.3	1302.4	1284.2
15°	1410.2	1382.3	1345.9	1313.8	1298.5	1267.8	1254.6	1237.8	1227.3	1216.8	1208.5
17.5°	1352.3	1317.5	1289.2	1252.3	1222.9	1198.5	1181.1	1171.0	1155.3	1140.4	1129.7
20°	1316.0	1279.0	1248.9	1209.8	1177.7	1147.7	1133.1	1119.1	1107.2	1094.7	1082.8
22.5°	1279.1	1240.4	1203.7	1165.7	1135.9	1104.2	1090.0	1071.1	1059.8	1052.8	1040.9
25°	1221.0	1179.1	1137.2	1101.0	1070.3	1042.3	1023.5	1008.8	996.2	990.7	983.0
27.5°	1157.9	1116.3	1075.8	1034.6	999.8	979.5	964.4	953.3	946.1	938.7	935.2
30°	1117.7	1074.4	1031.2	992.7	960.6	940.4	926.5	918.8	913.1	909.7	906.2
32.5°	1076.9	1034.2	988.7	953.6	924.8	906.9	896.3	888.6	885.8	884.5	883.2
35°	1011.6	968.3	926.5	895.0	867.8	860.8	851.7	847.5	846.2	851.0	853.1
37.5°	948.4	908.2	869.6	839.1	821.3	811.1	808.0	808.2	813.1	817.5	822.5
40°	907.6	868.5	832.1	805.7	788.9	782.6	781.2	784.7	790.3	795.2	800.7
42.5°	867.9	829.4	796.4	771.5	759.8	754.1	755.0	758.4	766.3	772.2	780.6
45°	806.4	774.3	742.1	721.9	712.1	713.5	713.5	719.7	727.4	736.5	745.6
47.5°	748.4	716.0	689.6	672.6	667.5	666.3	670.2	678.4	689.4	700.6	713.4
50°	709.3	678.5	655.5	640.2	634.6	636.7	642.3	649.9	663.2	677.2	690.4
52.5°	669.6	641.7	620.4	606.1	602.2	606.0	611.6	623.7	635.3	650.4	666.4
55°	608.0	584.3	567.5	557.1	555.7	557.8	564.1	577.3	594.1	613.0	628.3
57.5°	546.7	526.9	511.6	504.3	505.0	507.0	517.4	533.1	551.0	571.1	590.9
60°	505.4	487.3	474.7	469.2	469.8	474.0	486.6	501.3	523.6	543.1	564.1
62.5°	466.4	450.4	438.4	433.4	432.4	441.6	453.6	468.9	491.2	513.0	535.6
65°	403.5	390.9	381.2	378.4	380.5	387.5	402.8	423.0	441.9	464.9	488.7
67.5°	342.0	331.7	325.1	326.3	328.8	339.1	352.0	369.4	390.8	414.7	438.2
70°	303.0	293.2	287.6	288.3	292.6	305.1	316.3	333.7	356.8	381.2	400.7
72.5°	262.8	256.3	251.4	254.3	258.4	267.1	281.0	298.5	318.8	341.5	362.1
75°	201.8	201.8	198.9	201.1	207.3	215.7	226.2	244.4	264.6	282.8	299.5
77.5°	149.7	148.1	150.0	152.5	156.1	166.0	178.0	191.0	206.2	224.4	238.2
80°	114.5	115.2	118.7	122.9	124.3	132.0	144.5	156.4	168.2	183.6	196.8
82.5°	86.0	86.7	88.6	93.8	95.2	103.5	111.6	123.4	134.2	144.5	155.5
85°	46.8	46.8	50.3	52.3	55.8	61.4	66.3	73.3	83.1	90.1	100.5
87.5°	21.2	21.8	24.4	26.1	28.2	31.4	32.9	39.4	42.0	45.1	50.4
90°	16.8	19.5	21.8	24.1	26.5	28.8	30.6	32.3	34.0	35.7	37.0
92.5°	42.7	45.3	47.0	48.6	50.2	51.9	52.9	53.9	55.0	56.0	56.8
95°	89.1	91.4	93.4	95.4	97.5	99.6	100.4	101.3	102.2	103.0	103.5
97.5°	145.6	147.8	150.3	152.7	155.0	157.4	158.4	159.6	160.6	161.6	162.2
100°	188.0	189.9	192.5	195.1	197.7	200.4	201.0	201.6	202.2	202.7	203.0
102.5°	233.4	234.8	237.2	239.6	242.0	244.4	245.2	246.0	246.8	247.6	248.1
105°	306.3	307.0	308.2	309.4	310.5	311.7	312.6	313.5	314.4	315.2	316.1
107.5°	383.8	384.1	384.3	384.5	384.7	384.8	385.6	386.4	387.2	388.1	388.4
110°	437.2	437.3	437.0	436.7	436.5	436.2	435.6	434.9	434.3	433.8	433.9



TEST NUMBER: P332824-840

CATALOG NUMBER: S124DIW-S1020D1340U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	489.8	489.6	489.1	488.5	488.0	487.5	487.4	487.3	487.2	487.0	487.1
115°	571.0	570.8	570.2	569.6	569.0	568.4	568.2	567.8	567.5	567.2	566.9
117.5°	648.9	648.8	648.4	648.0	647.6	647.2	646.2	645.3	644.3	643.3	642.5
120°	704.0	704.2	703.3	702.5	701.6	700.6	699.2	697.8	696.3	694.9	694.4
122.5°	754.7	754.7	754.3	753.9	753.5	753.1	752.0	751.0	750.1	749.1	748.1
125°	831.6	831.5	831.2	830.9	830.6	830.3	829.7	829.2	828.6	828.0	827.4
127.5°	906.7	906.9	906.4	905.9	905.4	904.9	904.4	903.8	903.2	902.6	902.1
130°	956.9	957.4	957.4	957.4	957.4	957.4	956.7	956.2	955.6	955.0	954.2
132.5°	1007.3	1007.5	1007.3	1007.0	1006.8	1006.6	1006.0	1005.4	1004.9	1004.3	1003.8
135°	1079.6	1080.5	1080.5	1080.5	1080.5	1080.5	1079.9	1079.3	1078.7	1078.1	1077.4
137.5°	1149.7	1150.4	1150.8	1151.3	1151.8	1152.3	1151.4	1150.7	1150.0	1149.2	1148.9
140°	1198.1	1198.3	1198.3	1198.3	1198.3	1198.3	1198.1	1197.8	1197.5	1197.2	1196.9
142.5°	1243.1	1243.2	1243.0	1242.8	1242.6	1242.3	1242.3	1242.2	1242.2	1242.1	1242.0
145°	1307.8	1308.5	1308.8	1309.1	1309.4	1309.7	1309.4	1309.1	1308.8	1308.5	1308.0
147.5°	1370.5	1371.1	1370.9	1370.7	1370.4	1370.2	1370.0	1369.7	1369.5	1369.3	1369.0
150°	1407.3	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.8
152.5°	1441.1	1441.6	1441.8	1442.0	1442.3	1442.5	1443.2	1443.9	1444.6	1445.3	1445.2
155°	1493.0	1492.9	1492.6	1492.3	1492.0	1491.8	1492.9	1494.1	1495.2	1496.4	1496.4
157.5°	1537.0	1536.7	1536.7	1536.6	1536.6	1536.5	1537.4	1538.2	1539.1	1540.0	1539.9
160°	1565.2	1564.9	1564.6	1564.4	1564.1	1563.8	1564.6	1565.5	1566.4	1567.2	1566.9
162.5°	1588.5	1588.0	1587.7	1587.4	1587.1	1586.8	1588.4	1589.9	1591.5	1593.1	1593.2
165°	1621.8	1621.1	1620.5	1619.9	1619.3	1618.7	1620.5	1622.2	1624.0	1625.8	1626.1
167.5°	1646.4	1645.8	1645.9	1645.9	1646.0	1646.0	1647.8	1649.5	1651.2	1652.9	1652.9
170°	1660.1	1659.5	1659.8	1660.1	1660.4	1660.6	1662.4	1664.2	1665.9	1667.7	1667.5
172.5°	1671.5	1670.9	1671.0	1671.0	1671.1	1671.1	1673.1	1675.1	1677.1	1679.1	1679.0
175°	1685.0	1684.1	1683.8	1683.5	1683.2	1682.9	1685.0	1687.0	1689.0	1691.1	1691.1
177.5°	1690.8	1690.3	1690.3	1690.3	1690.3	1690.3	1691.9	1693.5	1695.2	1696.8	1696.7
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



TEST NUMBER: P332824-840

CATALOG NUMBER: S124DIW-S1020D1340U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1606.0	1604.9	1600.9	1600.4	1600.9	1604.9	1606.0	1607.1	1608.7	1614.4	1607.6
5°	1483.5	1480.1	1477.9	1485.6	1477.9	1480.1	1483.5	1487.7	1494.7	1495.4	1502.4
7.5°	1391.2	1388.5	1382.3	1380.4	1382.3	1388.5	1391.2	1393.7	1400.7	1406.7	1417.0
10°	1332.0	1329.2	1323.6	1322.2	1323.6	1329.2	1332.0	1339.0	1345.9	1353.6	1360.7
12.5°	1275.1	1269.5	1268.4	1269.7	1268.4	1269.5	1275.1	1284.2	1302.4	1302.3	1303.6
15°	1199.4	1196.6	1188.9	1191.0	1188.9	1196.6	1199.4	1208.5	1216.8	1227.3	1237.8
17.5°	1124.8	1121.5	1112.2	1120.3	1112.2	1121.5	1124.8	1129.7	1140.4	1155.3	1171.0
20°	1077.9	1072.3	1067.4	1066.7	1067.4	1072.3	1077.9	1082.8	1094.7	1107.2	1119.1
22.5°	1033.2	1028.2	1027.7	1023.2	1027.7	1028.2	1033.2	1040.9	1052.8	1059.8	1071.1
25°	977.3	972.5	971.1	967.7	971.1	972.5	977.3	983.0	990.7	996.2	1008.8
27.5°	934.5	932.1	929.6	930.7	929.6	932.1	934.5	935.2	938.7	946.1	953.3
30°	908.3	907.6	906.2	906.2	906.2	907.6	908.3	906.2	909.7	913.1	918.8
32.5°	886.5	886.4	887.2	887.2	887.2	886.4	886.5	883.2	884.5	885.8	888.6
35°	855.9	858.0	859.4	857.3	859.4	858.0	855.9	853.1	851.0	846.2	847.5
37.5°	828.3	830.3	832.3	834.7	832.3	830.3	828.3	822.5	817.5	813.1	808.2
40°	807.0	811.9	813.3	816.8	813.3	811.9	807.0	800.7	795.2	790.3	784.7
42.5°	786.9	792.3	796.0	796.7	796.0	792.3	786.9	780.6	772.2	766.3	758.4
45°	756.1	761.6	766.6	766.6	766.6	761.6	756.1	745.6	736.5	727.4	719.7
47.5°	724.1	732.2	737.1	738.3	737.1	732.2	724.1	713.4	700.6	689.4	678.4
50°	702.4	712.1	717.0	720.4	717.0	712.1	702.4	690.4	677.2	663.2	649.9
52.5°	681.1	690.8	697.4	699.2	697.4	690.8	681.1	666.4	650.4	635.3	623.7
55°	644.4	658.3	666.0	668.8	666.0	658.3	644.4	628.3	613.0	594.1	577.3
57.5°	609.8	622.6	631.6	633.6	631.6	622.6	609.8	590.9	571.1	551.0	533.1
60°	582.9	596.9	608.0	610.2	608.0	596.9	582.9	564.1	543.1	523.6	501.3
62.5°	555.5	570.1	580.2	585.6	580.2	570.1	555.5	535.6	513.0	491.2	468.9
65°	508.3	522.9	532.7	534.7	532.7	522.9	508.3	488.7	464.9	441.9	423.0
67.5°	456.6	471.2	477.7	481.7	477.7	471.2	456.6	438.2	414.7	390.8	369.4
70°	420.3	432.1	439.1	442.6	439.1	432.1	420.3	400.7	381.2	356.8	333.7
72.5°	378.9	391.3	399.5	400.2	399.5	391.3	378.9	362.1	341.5	318.8	298.5
75°	315.6	326.7	330.9	330.9	330.9	326.7	315.6	299.5	282.8	264.6	244.4
77.5°	249.7	255.5	260.8	262.0	260.8	255.5	249.7	238.2	224.4	206.2	191.0
80°	207.3	210.9	215.0	215.0	215.0	210.9	207.3	196.8	183.6	168.2	156.4
82.5°	163.8	166.7	170.9	170.4	170.9	166.7	163.8	155.5	144.5	134.2	123.4
85°	99.2	105.4	104.7	103.3	104.7	105.4	99.2	100.5	90.1	83.1	73.3
87.5°	52.2	52.8	54.6	55.8	54.6	52.8	52.2	50.4	45.1	42.0	39.4
90°	37.6	38.2	38.7	39.3	38.7	38.2	37.6	37.0	35.7	34.0	32.3
92.5°	57.1	57.5	57.8	58.2	57.8	57.5	57.1	56.8	56.0	55.0	53.9
95°	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.0	102.2	101.3
97.5°	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	161.6	160.6	159.6
100°	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	202.7	202.2	201.6
102.5°	248.4	248.6	248.8	249.1	248.8	248.6	248.4	248.1	247.6	246.8	246.0
105°	316.9	317.8	318.7	319.5	318.7	317.8	316.9	316.1	315.2	314.4	313.5
107.5°	388.4	388.3	388.3	388.2	388.3	388.3	388.4	388.4	388.1	387.2	386.4
110°	434.8	435.7	436.6	437.5	436.6	435.7	434.8	433.9	433.8	434.3	434.9



TEST NUMBER: P332824-840

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	487.2	487.4	487.6	487.8	487.6	487.4	487.2	487.1	487.0	487.2	487.3
115°	566.6	566.3	566.0	565.8	566.0	566.3	566.6	566.9	567.2	567.5	567.8
117.5°	641.9	641.4	640.8	640.2	640.8	641.4	641.9	642.5	643.3	644.3	645.3
120°	695.0	695.6	696.2	696.7	696.2	695.6	695.0	694.4	694.9	696.3	697.8
122.5°	747.0	746.0	745.0	743.9	745.0	746.0	747.0	748.1	749.1	750.1	751.0
125°	826.9	826.3	825.7	825.1	825.7	826.3	826.9	827.4	828.0	828.6	829.2
127.5°	901.7	901.2	900.7	900.3	900.7	901.2	901.7	902.1	902.6	903.2	903.8
130°	953.0	951.8	950.7	949.5	950.7	951.8	953.0	954.2	955.0	955.6	956.2
132.5°	1003.3	1002.8	1002.4	1001.9	1002.4	1002.8	1003.3	1003.8	1004.3	1004.9	1005.4
135°	1076.5	1075.7	1074.8	1073.9	1074.8	1075.7	1076.5	1077.4	1078.1	1078.7	1079.3
137.5°	1149.1	1149.3	1149.4	1149.6	1149.4	1149.3	1149.1	1148.9	1149.2	1150.0	1150.7
140°	1196.6	1196.3	1196.0	1195.8	1196.0	1196.3	1196.6	1196.9	1197.2	1197.5	1197.8
142.5°	1242.0	1241.9	1241.9	1241.8	1241.9	1241.9	1242.0	1242.0	1242.1	1242.2	1242.2
145°	1307.1	1306.2	1305.4	1304.4	1305.4	1306.2	1307.1	1308.0	1308.5	1308.8	1309.1
147.5°	1368.7	1368.4	1368.2	1367.9	1368.2	1368.4	1368.7	1369.0	1369.3	1369.5	1369.7
150°	1407.4	1407.1	1406.8	1406.6	1406.8	1407.1	1407.4	1407.8	1407.9	1407.9	1407.9
152.5°	1444.5	1443.7	1443.0	1442.2	1443.0	1443.7	1444.5	1445.2	1445.3	1444.6	1443.9
155°	1495.2	1494.1	1492.9	1491.8	1492.9	1494.1	1495.2	1496.4	1496.4	1495.2	1494.1
157.5°	1538.9	1537.9	1537.0	1536.0	1537.0	1537.9	1538.9	1539.9	1540.0	1539.1	1538.2
160°	1565.5	1564.1	1562.6	1561.2	1562.6	1564.1	1565.5	1566.9	1567.2	1566.4	1565.5
162.5°	1591.6	1590.2	1588.8	1587.3	1588.8	1590.2	1591.6	1593.2	1593.1	1591.5	1589.9
165°	1624.9	1623.7	1622.6	1621.3	1622.6	1623.7	1624.9	1626.1	1625.8	1624.0	1622.2
167.5°	1651.1	1649.3	1647.6	1645.8	1647.6	1649.3	1651.1	1652.9	1652.9	1651.2	1649.5
170°	1665.5	1663.4	1661.4	1659.4	1661.4	1663.4	1665.5	1667.5	1667.7	1665.9	1664.2
172.5°	1677.0	1675.0	1672.9	1670.9	1672.9	1675.0	1677.0	1679.0	1679.1	1677.1	1675.1
175°	1689.0	1687.0	1685.0	1682.9	1685.0	1687.0	1689.0	1691.1	1691.1	1689.0	1687.0
177.5°	1694.9	1692.9	1691.1	1689.2	1691.1	1692.9	1694.9	1696.7	1696.8	1695.2	1693.5
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1611.0	1613.3	1622.1	1630.5	1640.6	1647.9	1652.8	1658.5	1670.2	1679.7	1688.6
5°	1509.3	1512.9	1531.0	1543.6	1565.2	1584.1	1598.7	1614.8	1633.7	1659.4	1683.1
7.5°	1419.9	1432.8	1452.7	1473.1	1495.1	1519.8	1541.4	1565.5	1598.0	1633.5	1670.0
10°	1369.1	1383.7	1404.6	1428.4	1449.4	1477.9	1504.5	1533.1	1570.0	1613.4	1656.7
12.5°	1318.2	1342.3	1358.3	1386.4	1409.1	1432.7	1460.9	1498.4	1541.6	1587.1	1639.3
15°	1254.6	1267.8	1298.5	1313.8	1345.9	1382.3	1410.2	1447.9	1489.8	1549.8	1608.5
17.5°	1181.1	1198.5	1222.9	1252.3	1289.2	1317.5	1352.3	1391.1	1443.9	1503.5	1576.9
20°	1133.1	1147.7	1177.7	1209.8	1248.9	1279.0	1316.0	1353.6	1408.2	1471.7	1548.4
22.5°	1090.0	1104.2	1135.9	1165.7	1203.7	1240.4	1279.1	1322.9	1375.1	1442.1	1520.6
25°	1023.5	1042.3	1070.3	1101.0	1137.2	1179.1	1221.0	1260.1	1316.0	1386.4	1470.3
27.5°	964.4	979.5	999.8	1034.6	1075.8	1116.3	1157.9	1207.1	1260.7	1335.2	1422.2
30°	926.5	940.4	960.6	992.7	1031.2	1074.4	1117.7	1165.2	1221.0	1295.1	1383.7
32.5°	896.3	906.9	924.8	953.6	988.7	1034.2	1076.9	1126.1	1184.7	1257.6	1344.0
35°	851.7	860.8	867.8	895.0	926.5	968.3	1011.6	1064.0	1120.4	1189.6	1276.2
37.5°	808.0	811.1	821.3	839.1	869.6	908.2	948.4	999.9	1057.8	1128.0	1206.1
40°	781.2	782.6	788.9	805.7	832.1	868.5	907.6	958.6	1013.7	1080.1	1157.5
42.5°	755.0	754.1	759.8	771.5	796.4	829.4	867.9	914.4	969.6	1030.9	1103.9
45°	713.5	713.5	712.1	721.9	742.1	774.3	806.4	851.0	897.1	957.2	1018.5
47.5°	670.2	666.3	667.5	672.6	689.6	716.0	748.4	785.0	825.6	876.5	930.3
50°	642.3	636.7	634.6	640.2	655.5	678.5	709.3	741.4	779.8	824.5	870.6
52.5°	611.6	606.0	602.2	606.1	620.4	641.7	669.6	697.8	732.4	768.6	808.6
55°	564.1	557.8	555.7	557.1	567.5	584.3	608.0	633.9	659.7	689.7	717.7
57.5°	517.4	507.0	505.0	504.3	511.6	526.9	546.7	569.2	587.9	606.1	635.8
60°	486.6	474.0	469.8	469.2	474.7	487.3	505.4	527.8	541.1	553.6	579.5
62.5°	453.6	441.6	432.4	433.4	438.4	450.4	466.4	482.5	491.3	505.0	522.5
65°	402.8	387.5	380.5	378.4	381.2	390.9	403.5	413.9	423.7	429.4	446.1
67.5°	352.0	339.1	328.8	326.3	325.1	331.7	342.0	348.4	355.4	360.2	370.1
70°	316.3	305.1	292.6	288.3	287.6	293.2	303.0	303.7	313.5	315.6	326.0
72.5°	281.0	267.1	258.4	254.3	251.4	256.3	262.8	264.6	269.9	273.7	279.1
75°	226.2	215.7	207.3	201.1	198.9	201.8	201.8	205.2	208.7	210.9	217.1
77.5°	178.0	166.0	156.1	152.5	150.0	148.1	149.7	151.8	150.1	153.7	155.1
80°	144.5	132.0	124.3	122.9	118.7	115.2	114.5	116.5	113.8	115.2	119.4
82.5°	111.6	103.5	95.2	93.8	88.6	86.7	86.0	84.7	84.7	84.4	85.3
85°	66.3	61.4	55.8	52.3	50.3	46.8	46.8	45.3	44.0	42.6	43.3
87.5°	32.9	31.4	28.2	26.1	24.4	21.8	21.2	18.9	17.7	16.5	15.3
90°	30.6	28.8	26.5	24.1	21.8	19.5	16.8	13.5	10.3	7.2	3.9
92.5°	52.9	51.9	50.2	48.6	47.0	45.3	42.7	39.0	35.3	31.7	28.1
95°	100.4	99.6	97.5	95.4	93.4	91.4	89.1	86.4	83.8	81.2	78.6
97.5°	158.4	157.4	155.0	152.7	150.3	147.8	145.6	143.5	141.5	139.4	137.2
100°	201.0	200.4	197.7	195.1	192.5	189.9	188.0	186.8	185.7	184.5	183.4
102.5°	245.2	244.4	242.0	239.6	237.2	234.8	233.4	233.0	232.5	232.1	231.6
105°	312.6	311.7	310.5	309.4	308.2	307.0	306.3	306.0	305.8	305.5	305.2
107.5°	385.6	384.8	384.7	384.5	384.3	384.1	383.8	383.4	383.1	382.7	382.4
110°	435.6	436.2	436.5	436.7	437.0	437.3	437.2	436.6	436.0	435.4	434.8



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	487.4	487.5	488.0	488.5	489.1	489.6	489.8	489.7	489.5	489.4	489.3
115°	568.2	568.4	569.0	569.6	570.2	570.8	571.0	571.0	571.0	571.0	571.0
117.5°	646.2	647.2	647.6	648.0	648.4	648.8	648.9	648.7	648.5	648.2	648.0
120°	699.2	700.6	701.6	702.5	703.3	704.2	704.0	702.9	701.7	700.5	699.3
122.5°	752.0	753.1	753.5	753.9	754.3	754.7	754.7	754.2	753.8	753.3	752.8
125°	829.7	830.3	830.6	830.9	831.2	831.5	831.6	831.6	831.6	831.6	831.6
127.5°	904.4	904.9	905.4	905.9	906.4	906.9	906.7	905.7	904.9	904.0	903.1
130°	956.7	957.4	957.4	957.4	957.4	957.4	956.9	956.0	955.2	954.3	953.4
132.5°	1006.0	1006.6	1006.8	1007.0	1007.3	1007.5	1007.3	1006.7	1006.0	1005.4	1004.8
135°	1079.9	1080.5	1080.5	1080.5	1080.5	1080.5	1079.6	1077.8	1076.1	1074.4	1072.6
137.5°	1151.4	1152.3	1151.8	1151.3	1150.8	1150.4	1149.7	1148.9	1148.1	1147.3	1146.5
140°	1198.1	1198.3	1198.3	1198.3	1198.3	1198.3	1198.1	1197.5	1196.9	1196.3	1195.8
142.5°	1242.3	1242.3	1242.6	1242.8	1243.0	1243.2	1243.1	1242.5	1241.9	1241.3	1240.8
145°	1309.4	1309.7	1309.4	1309.1	1308.8	1308.5	1307.8	1306.7	1305.5	1304.3	1303.1
147.5°	1370.0	1370.2	1370.4	1370.7	1370.9	1371.1	1370.5	1369.2	1367.8	1366.3	1364.9
150°	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.3	1406.1	1405.0	1403.8	1402.7
152.5°	1443.2	1442.5	1442.3	1442.0	1441.8	1441.6	1441.1	1440.4	1439.7	1439.0	1438.2
155°	1492.9	1491.8	1492.0	1492.3	1492.6	1492.9	1493.0	1493.0	1493.0	1493.0	1493.0
157.5°	1537.4	1536.5	1536.6	1536.6	1536.7	1536.7	1537.0	1537.5	1538.1	1538.6	1539.1
160°	1564.6	1563.8	1564.1	1564.4	1564.6	1564.9	1565.2	1565.5	1565.8	1566.1	1566.4
162.5°	1588.4	1586.8	1587.1	1587.4	1587.7	1588.0	1588.5	1589.2	1590.0	1590.7	1591.5
165°	1620.5	1618.7	1619.3	1619.9	1620.5	1621.1	1621.8	1622.7	1623.6	1624.5	1625.3
167.5°	1647.8	1646.0	1646.0	1645.9	1645.9	1645.8	1646.4	1647.6	1648.8	1650.0	1651.2
170°	1662.4	1660.6	1660.4	1660.1	1659.8	1659.5	1660.1	1661.5	1663.0	1664.5	1665.9
172.5°	1673.1	1671.1	1671.1	1671.0	1671.0	1670.9	1671.5	1672.7	1674.0	1675.2	1676.4
175°	1685.0	1682.9	1683.2	1683.5	1683.8	1684.1	1685.0	1686.5	1687.9	1689.3	1690.8
177.5°	1691.9	1690.3	1690.3	1690.3	1690.3	1690.3	1690.8	1692.0	1693.1	1694.4	1695.5
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



TEST NUMBER: P332824-840

CATALOG NUMBER: S124DIW-S1020D1340U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1696.5	1702.0	1709.3	1721.6	1726.1	1731.6	1739.5	1738.9	1741.1	1749.5	1767.4
5°	1702.7	1724.3	1745.3	1770.5	1797.0	1814.4	1838.2	1852.8	1867.4	1886.3	1918.4
7.5°	1705.3	1739.6	1778.0	1822.1	1861.4	1906.6	1941.9	1975.1	2005.2	2045.0	2083.3
10°	1701.3	1747.4	1797.0	1852.8	1912.2	1962.5	2007.8	2059.5	2103.4	2151.6	2194.9
12.5°	1694.0	1749.7	1815.9	1878.6	1947.9	2022.2	2078.7	2130.9	2189.5	2244.9	2311.7
15°	1677.6	1753.7	1831.2	1913.6	2006.4	2092.2	2173.9	2241.7	2304.5	2387.6	2474.9
17.5°	1656.7	1738.8	1836.4	1936.2	2033.3	2131.4	2232.5	2334.3	2413.6	2516.8	2585.1
20°	1637.1	1732.0	1832.6	1951.3	2048.3	2170.5	2271.0	2369.4	2478.3	2581.0	2662.6
22.5°	1609.7	1713.6	1820.3	1938.4	2066.2	2188.4	2304.5	2411.4	2520.2	2631.8	2730.8
25°	1575.0	1669.2	1795.5	1929.7	2056.7	2189.3	2322.7	2456.7	2573.9	2692.0	2784.1
27.5°	1515.8	1634.8	1752.4	1890.8	2031.9	2182.0	2324.6	2465.0	2587.8	2684.8	2742.0
30°	1485.6	1588.9	1716.7	1855.6	2008.5	2169.8	2318.4	2456.0	2570.5	2648.0	2671.0
32.5°	1441.0	1547.6	1672.5	1816.5	1978.3	2144.0	2299.0	2428.6	2524.2	2564.8	2537.0
35°	1374.6	1471.0	1597.3	1744.6	1912.9	2089.5	2242.4	2352.0	2400.9	2362.5	2266.8
37.5°	1295.1	1390.5	1517.4	1662.1	1836.2	2015.8	2154.0	2232.9	2216.7	2121.2	1978.6
40°	1239.2	1328.6	1449.4	1605.7	1775.3	1955.4	2076.9	2119.5	2074.9	1938.0	1786.6
42.5°	1177.2	1264.4	1385.6	1536.4	1716.2	1882.3	1988.1	1991.7	1916.7	1753.1	1601.0
45°	1082.8	1165.9	1280.4	1437.4	1603.6	1760.0	1829.8	1795.5	1657.4	1499.5	1346.7
47.5°	989.7	1061.7	1174.6	1323.6	1481.5	1613.1	1647.7	1586.1	1438.9	1285.7	1144.0
50°	921.5	994.1	1100.2	1242.6	1394.8	1508.6	1525.4	1443.7	1299.2	1144.9	1033.9
52.5°	856.2	928.3	1030.5	1162.3	1301.6	1404.2	1404.7	1310.2	1166.3	1028.7	925.5
55°	760.2	825.2	917.4	1035.3	1159.6	1239.9	1220.3	1122.6	997.6	878.3	788.2
57.5°	667.8	724.4	809.3	907.7	1017.1	1083.4	1051.0	956.8	845.3	744.1	675.8
60°	608.0	661.9	734.5	827.3	919.5	971.1	940.4	855.2	752.6	670.9	611.6
62.5°	550.0	595.3	665.2	745.8	831.2	869.5	842.1	758.0	669.3	595.5	547.3
65°	467.8	504.7	560.6	629.8	691.9	724.7	701.7	623.4	555.7	502.6	464.2
67.5°	390.9	419.9	462.1	517.6	570.4	588.1	567.1	512.7	455.3	412.8	385.8
70°	337.9	365.2	400.7	443.3	489.4	508.3	487.3	444.0	397.3	358.1	331.6
72.5°	291.5	312.7	342.6	379.1	415.2	433.9	419.7	378.1	338.6	309.5	286.9
75°	222.0	240.1	261.1	286.9	314.9	327.4	314.9	286.2	259.0	237.3	221.3
77.5°	161.4	171.2	187.3	206.6	224.1	233.7	222.9	203.4	186.8	172.0	164.1
80°	122.9	129.9	141.0	156.4	168.2	177.3	170.4	154.3	141.0	131.3	127.7
82.5°	89.4	94.1	101.4	112.8	120.8	125.4	122.3	110.7	105.2	96.6	93.1
85°	44.0	46.8	51.7	55.1	62.1	62.8	63.5	58.7	53.7	51.7	48.9
87.5°	16.5	17.7	20.0	22.3	25.1	26.2	26.1	26.6	24.7	24.5	22.6
90°	7.2	10.3	13.5	16.8	19.5	21.8	24.1	26.5	28.8	30.6	32.3
92.5°	31.7	35.3	39.0	42.7	45.3	47.0	48.6	50.2	51.9	52.9	53.9
95°	81.2	83.8	86.4	89.1	91.4	93.4	95.4	97.5	99.6	100.4	101.3
97.5°	139.4	141.5	143.5	145.6	147.8	150.3	152.7	155.0	157.4	158.4	159.6
100°	184.5	185.7	186.8	188.0	189.9	192.5	195.1	197.7	200.4	201.0	201.6
102.5°	232.1	232.5	233.0	233.4	234.8	237.2	239.6	242.0	244.4	245.2	246.0
105°	305.5	305.8	306.0	306.3	307.0	308.2	309.4	310.5	311.7	312.6	313.5
107.5°	382.7	383.1	383.4	383.8	384.1	384.3	384.5	384.7	384.8	385.6	386.4
110°	435.4	436.0	436.6	437.2	437.3	437.0	436.7	436.5	436.2	435.6	434.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	489.4	489.5	489.7	489.8	489.6	489.1	488.5	488.0	487.5	487.4	487.3
115°	571.0	571.0	571.0	571.0	570.8	570.2	569.6	569.0	568.4	568.2	567.8
117.5°	648.2	648.5	648.7	648.9	648.8	648.4	648.0	647.6	647.2	646.2	645.3
120°	700.5	701.7	702.9	704.0	704.2	703.3	702.5	701.6	700.6	699.2	697.8
122.5°	753.3	753.8	754.2	754.7	754.7	754.3	753.9	753.5	753.1	752.0	751.0
125°	831.6	831.6	831.6	831.6	831.5	831.2	830.9	830.6	830.3	829.7	829.2
127.5°	904.0	904.9	905.7	906.7	906.9	906.4	905.9	905.4	904.9	904.4	903.8
130°	954.3	955.2	956.0	956.9	957.4	957.4	957.4	957.4	957.4	956.7	956.2
132.5°	1005.4	1006.0	1006.7	1007.3	1007.5	1007.3	1007.0	1006.8	1006.6	1006.0	1005.4
135°	1074.4	1076.1	1077.8	1079.6	1080.5	1080.5	1080.5	1080.5	1080.5	1079.9	1079.3
137.5°	1147.3	1148.1	1148.9	1149.7	1150.4	1150.8	1151.3	1151.8	1152.3	1151.4	1150.7
140°	1196.3	1196.9	1197.5	1198.1	1198.3	1198.3	1198.3	1198.3	1198.3	1198.1	1197.8
142.5°	1241.3	1241.9	1242.5	1243.1	1243.2	1243.0	1242.8	1242.6	1242.3	1242.3	1242.2
145°	1304.3	1305.5	1306.7	1307.8	1308.5	1308.8	1309.1	1309.4	1309.7	1309.4	1309.1
147.5°	1366.3	1367.8	1369.2	1370.5	1371.1	1370.9	1370.7	1370.4	1370.2	1370.0	1369.7
150°	1403.8	1405.0	1406.1	1407.3	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
152.5°	1439.0	1439.7	1440.4	1441.1	1441.6	1441.8	1442.0	1442.3	1442.5	1443.2	1443.9
155°	1493.0	1493.0	1493.0	1493.0	1492.9	1492.6	1492.3	1492.0	1491.8	1492.9	1494.1
157.5°	1538.6	1538.1	1537.5	1537.0	1536.7	1536.7	1536.6	1536.6	1536.5	1537.4	1538.2
160°	1566.1	1565.8	1565.5	1565.2	1564.9	1564.6	1564.4	1564.1	1563.8	1564.6	1565.5
162.5°	1590.7	1590.0	1589.2	1588.5	1588.0	1587.7	1587.4	1587.1	1586.8	1588.4	1589.9
165°	1624.5	1623.6	1622.7	1621.8	1621.1	1620.5	1619.9	1619.3	1618.7	1620.5	1622.2
167.5°	1650.0	1648.8	1647.6	1646.4	1645.8	1645.9	1645.9	1646.0	1646.0	1647.8	1649.5
170°	1664.5	1663.0	1661.5	1660.1	1659.5	1659.8	1660.1	1660.4	1660.6	1662.4	1664.2
172.5°	1675.2	1674.0	1672.7	1671.5	1670.9	1671.0	1671.0	1671.1	1671.1	1673.1	1675.1
175°	1689.3	1687.9	1686.5	1685.0	1684.1	1683.8	1683.5	1683.2	1682.9	1685.0	1687.0
177.5°	1694.4	1693.1	1692.0	1690.8	1690.3	1690.3	1690.3	1690.3	1690.3	1691.9	1693.5
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1776.4	1777.5	1782.4	1786.4	1787.5	1793.1	1793.6
5°	1932.4	1944.3	1967.3	1969.4	1972.9	1991.0	1977.1
7.5°	2115.4	2145.5	2165.6	2183.3	2189.8	2197.7	2196.1
10°	2232.6	2277.2	2299.7	2335.2	2336.6	2345.7	2340.2
12.5°	2350.5	2402.4	2443.2	2449.7	2479.6	2484.2	2492.0
15°	2517.4	2572.6	2629.2	2649.4	2690.6	2700.4	2715.7
17.5°	2674.4	2730.8	2770.5	2822.8	2839.7	2862.4	2846.9
20°	2760.4	2821.9	2872.1	2913.3	2930.7	2943.3	2941.9
22.5°	2812.4	2874.3	2915.1	2946.2	2962.5	2967.9	2967.6
25°	2844.9	2880.4	2893.1	2904.9	2886.8	2880.4	2883.3
27.5°	2754.4	2745.2	2712.4	2669.4	2624.6	2589.2	2569.9
30°	2629.9	2575.4	2525.8	2439.2	2394.6	2368.0	2344.3
32.5°	2453.4	2367.0	2271.7	2192.4	2141.6	2102.2	2096.4
35°	2150.9	2021.0	1904.5	1807.5	1757.2	1714.5	1704.9
37.5°	1828.7	1693.7	1588.8	1503.4	1449.4	1419.3	1391.2
40°	1614.8	1498.8	1395.5	1322.9	1281.7	1260.1	1242.6
42.5°	1450.0	1344.1	1241.4	1186.1	1148.8	1135.6	1125.4
45°	1222.4	1124.0	1052.8	1010.9	989.3	966.9	956.4
47.5°	1040.2	960.1	913.1	877.6	854.3	841.1	834.4
50°	936.9	871.2	829.4	802.1	781.2	770.7	765.2
52.5°	845.3	791.4	756.2	734.6	720.3	712.7	710.4
55°	728.1	686.9	664.6	645.8	635.3	628.3	625.5
57.5°	632.9	601.3	583.1	567.5	563.5	557.6	555.7
60°	570.4	545.9	530.6	520.1	516.6	509.7	511.0
62.5°	515.0	495.1	482.0	475.9	471.4	465.5	467.5
65°	435.7	421.0	413.9	408.4	402.8	399.3	402.1
67.5°	365.6	355.5	346.0	342.7	340.0	339.4	336.5
70°	319.7	311.3	303.0	300.9	300.9	298.1	297.4
72.5°	275.6	269.4	263.9	262.4	260.1	261.3	258.3
75°	212.9	208.0	205.9	203.9	203.2	203.2	201.1
77.5°	157.3	153.7	150.4	150.4	147.8	146.9	146.6
80°	119.4	118.0	115.2	115.2	113.8	114.5	113.1
82.5°	89.8	87.9	87.3	86.1	84.2	84.3	82.9
85°	48.2	46.0	45.3	43.3	41.9	43.3	41.9
87.5°	23.5	23.3	23.0	22.0	21.6	21.7	20.1
90°	34.0	35.7	37.0	37.6	38.2	38.7	39.3
92.5°	55.0	56.0	56.8	57.1	57.5	57.8	58.2
95°	102.2	103.0	103.5	103.5	103.5	103.5	103.5
97.5°	160.6	161.6	162.2	162.2	162.2	162.2	162.2
100°	202.2	202.7	203.0	203.0	203.0	203.0	203.0
102.5°	246.8	247.6	248.1	248.4	248.6	248.8	249.1
105°	314.4	315.2	316.1	316.9	317.8	318.7	319.5
107.5°	387.2	388.1	388.4	388.4	388.3	388.3	388.2
110°	434.3	433.8	433.9	434.8	435.7	436.6	437.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	487.2	487.0	487.1	487.2	487.4	487.6	487.8
115°	567.5	567.2	566.9	566.6	566.3	566.0	565.8
117.5°	644.3	643.3	642.5	641.9	641.4	640.8	640.2
120°	696.3	694.9	694.4	695.0	695.6	696.2	696.7
122.5°	750.1	749.1	748.1	747.0	746.0	745.0	743.9
125°	828.6	828.0	827.4	826.9	826.3	825.7	825.1
127.5°	903.2	902.6	902.1	901.7	901.2	900.7	900.3
130°	955.6	955.0	954.2	953.0	951.8	950.7	949.5
132.5°	1004.9	1004.3	1003.8	1003.3	1002.8	1002.4	1001.9
135°	1078.7	1078.1	1077.4	1076.5	1075.7	1074.8	1073.9
137.5°	1150.0	1149.2	1148.9	1149.1	1149.3	1149.4	1149.6
140°	1197.5	1197.2	1196.9	1196.6	1196.3	1196.0	1195.8
142.5°	1242.2	1242.1	1242.0	1242.0	1241.9	1241.9	1241.8
145°	1308.8	1308.5	1308.0	1307.1	1306.2	1305.4	1304.4
147.5°	1369.5	1369.3	1369.0	1368.7	1368.4	1368.2	1367.9
150°	1407.9	1407.9	1407.8	1407.4	1407.1	1406.8	1406.6
152.5°	1444.6	1445.3	1445.2	1444.5	1443.7	1443.0	1442.2
155°	1495.2	1496.4	1496.4	1495.2	1494.1	1492.9	1491.8
157.5°	1539.1	1540.0	1539.9	1538.9	1537.9	1537.0	1536.0
160°	1566.4	1567.2	1566.9	1565.5	1564.1	1562.6	1561.2
162.5°	1591.5	1593.1	1593.2	1591.6	1590.2	1588.8	1587.3
165°	1624.0	1625.8	1626.1	1624.9	1623.7	1622.6	1621.3
167.5°	1651.2	1652.9	1652.9	1651.1	1649.3	1647.6	1645.8
170°	1665.9	1667.7	1667.5	1665.5	1663.4	1661.4	1659.4
172.5°	1677.1	1679.1	1679.0	1677.0	1675.0	1672.9	1670.9
175°	1689.0	1691.1	1691.1	1689.0	1687.0	1685.0	1682.9
177.5°	1695.2	1696.8	1696.7	1694.9	1692.9	1691.1	1689.2
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4

(END OF REPORT)