

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: P332823-840

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332823-840  
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: S124DIW-S1020D1340U840-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1340 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

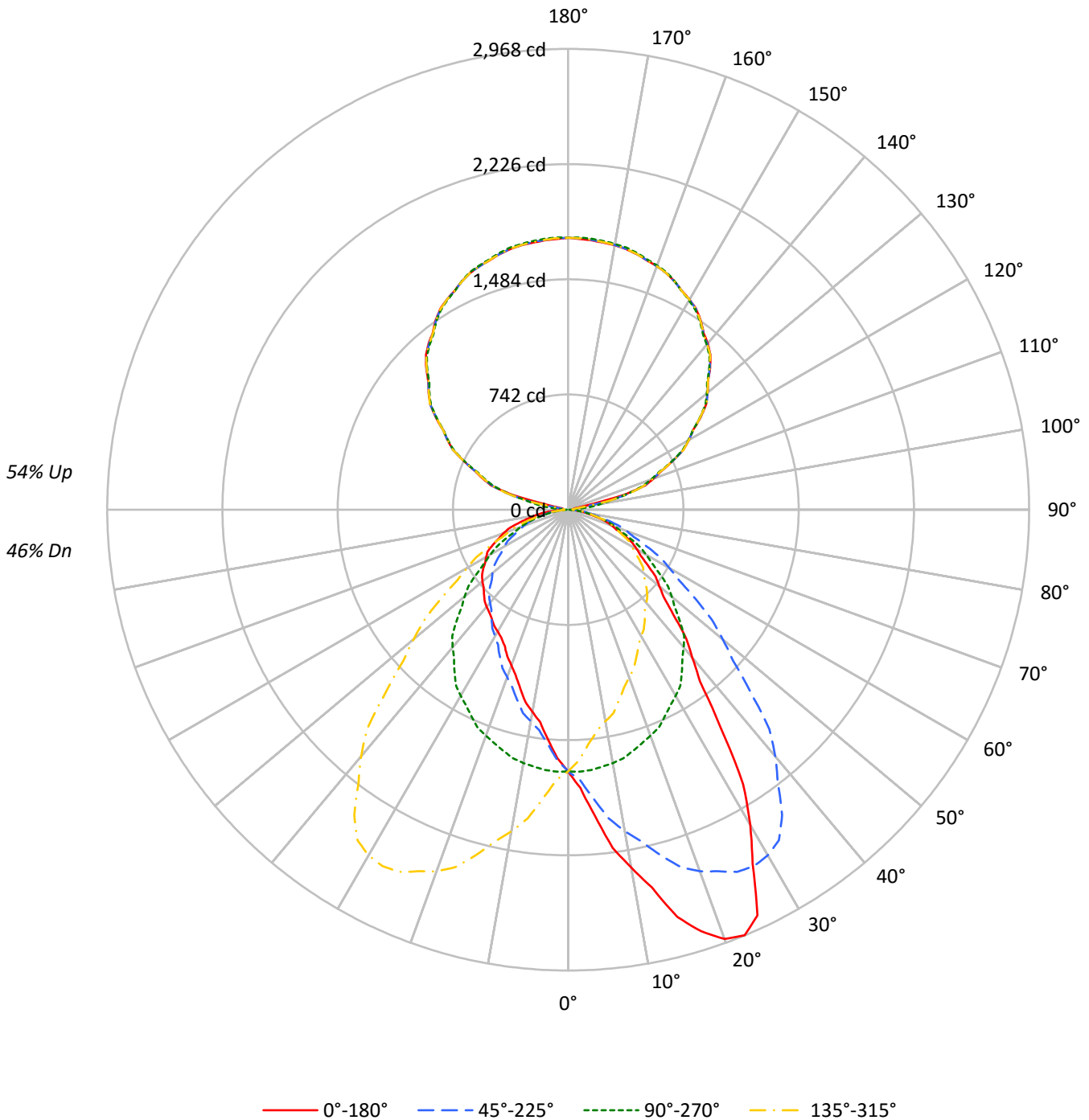
Lumens per Lamp: N/A  
Luminaire Lumens: 10072.0 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46				
1	97	93	89	86	89	85	82	79	71	69	67	59	57	56	47	46	45	39				
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	40	38	33				
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33	28				
4	74	64	56	50	68	59	52	47	50	44	40	41	37	34	33	30	28	25				
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21				
6	63	51	43	37	57	47	40	35	40	35	31	33	29	26	27	24	22	19				
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19	17				
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	12				

**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	1.6
10°-20°	506.1	5.0
20°-30°	802.5	8.0
30°-40°	893.1	8.9
40°-50°	812.9	8.1
50°-60°	664.3	6.6
60°-70°	474.2	4.7
70°-80°	261.1	2.6
80°-90°	76.4	0.8
90°-100°	59.9	0.6
100°-110°	381.9	3.8
110°-120°	730.6	7.3
120°-130°	927.4	9.2
130°-140°	992.3	9.9
140°-150°	927.9	9.2
150°-160°	748.3	7.4
160°-170°	482.6	4.8
170°-180°	166.3	1.7
0°-30°	1472.7	14.6
0°-40°	2365.8	23.5
0°-60°	3843.0	38.2
0°-90°	4654.8	46.2
90°-120°	1172.4	11.6
90°-150°	4020.0	39.9
90°-180°	5417.0	53.8
0°-180°	10072.0	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	18
95°	38	72	38	72	38	30
105°	373	394	373	394	373	326
115°	741	736	741	736	741	734
125°	1043	1035	1043	1035	1043	929
135°	1293	1284	1293	1284	1293	995
145°	1488	1480	1488	1480	1488	930
155°	1622	1623	1622	1623	1622	748
165°	1704	1712	1704	1712	1704	481
175°	1741	1751	1741	1751	1741	166
180°	1751	1751	1751	1751	1751	



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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	35.9	34.0	32.3	30.6	28.8	26.5
92.5°	36.2	36.1	36.0	35.9	35.6	34.7	33.0	31.3	29.5	27.8	25.4
95°	38.0	37.7	37.4	37.1	36.9	35.9	34.0	32.3	30.6	28.8	28.5
97.5°	36.7	36.4	36.1	35.9	35.5	35.2	35.1	34.9	34.7	34.5	67.1
100°	36.7	36.4	36.1	35.9	35.5	37.9	42.8	47.8	52.7	57.7	97.8
102.5°	37.8	37.7	37.6	37.6	37.5	64.1	117.5	171.0	224.3	277.7	283.0
105°	373.3	383.7	394.3	404.8	415.3	419.2	416.6	413.9	411.3	408.7	407.2
107.5°	520.3	519.2	518.1	516.9	515.8	514.6	513.4	512.1	510.8	509.6	507.6
110°	584.2	583.3	582.5	581.6	580.7	580.0	579.4	578.9	578.2	577.6	575.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	648.1	647.0	645.9	644.8	643.7	643.2	643.3	643.4	643.6	643.7	642.9
115°	741.3	741.3	741.3	741.3	741.3	741.0	740.5	739.9	739.3	738.7	739.0
117.5°	836.2	836.4	836.5	836.6	836.7	836.8	836.9	837.0	837.2	837.3	836.6
120°	896.0	896.6	897.1	897.7	898.3	898.3	897.7	897.1	896.6	896.0	896.3
122.5°	954.6	955.2	955.7	956.3	956.9	957.0	956.7	956.3	956.0	955.6	955.2
125°	1042.7	1042.4	1042.1	1041.8	1041.5	1040.9	1040.1	1039.2	1038.2	1037.4	1037.9
127.5°	1119.9	1120.1	1120.3	1120.6	1120.8	1121.1	1121.3	1121.5	1121.6	1121.8	1120.4
130°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.2	1171.8	1171.5	1171.3	1171.0	1170.1
132.5°	1220.5	1220.7	1221.0	1221.2	1221.4	1221.4	1221.1	1220.8	1220.5	1220.2	1219.1
135°	1292.8	1292.2	1291.6	1291.1	1290.5	1289.9	1289.3	1288.8	1288.2	1287.6	1286.5
137.5°	1354.6	1354.8	1355.0	1355.1	1355.3	1355.1	1354.4	1353.8	1353.2	1352.5	1351.3
140°	1397.7	1397.4	1397.0	1396.7	1396.4	1395.8	1395.0	1394.1	1393.2	1392.4	1391.8
142.5°	1433.2	1433.2	1433.1	1433.1	1433.0	1432.7	1432.0	1431.4	1430.8	1430.1	1429.8
145°	1488.0	1487.4	1486.8	1486.2	1485.7	1485.2	1484.9	1484.6	1484.4	1484.1	1484.1
147.5°	1533.3	1533.0	1532.8	1532.5	1532.2	1531.9	1531.7	1531.5	1531.2	1531.0	1531.3
150°	1562.7	1562.4	1562.1	1561.8	1561.5	1561.4	1561.4	1561.4	1561.4	1561.4	1561.7
152.5°	1587.8	1588.0	1588.1	1588.3	1588.5	1588.3	1587.9	1587.4	1587.0	1586.5	1587.0
155°	1621.6	1622.4	1623.4	1624.3	1625.1	1625.0	1623.8	1622.7	1621.4	1620.3	1621.1
157.5°	1649.9	1651.4	1652.9	1654.5	1656.0	1656.0	1654.5	1652.9	1651.4	1649.9	1650.9
160°	1668.8	1670.5	1672.2	1674.0	1675.8	1675.8	1674.0	1672.2	1670.5	1668.8	1669.0
162.5°	1683.4	1685.4	1687.4	1689.4	1691.3	1691.4	1689.7	1688.0	1686.2	1684.5	1684.8
165°	1704.1	1706.8	1709.4	1712.0	1714.5	1714.8	1712.4	1710.1	1707.8	1705.5	1705.5
167.5°	1719.6	1722.5	1725.4	1728.3	1731.2	1731.4	1728.8	1726.3	1723.7	1721.1	1721.3
170°	1729.0	1731.9	1734.8	1737.8	1740.6	1740.9	1738.6	1736.3	1733.9	1731.6	1731.3
172.5°	1734.2	1737.4	1740.5	1743.6	1746.9	1747.3	1744.9	1742.5	1740.2	1737.9	1737.6
175°	1740.8	1744.2	1747.8	1751.3	1754.7	1755.2	1752.6	1750.0	1747.4	1744.7	1744.4
177.5°	1744.9	1747.8	1750.6	1753.3	1756.2	1756.7	1754.7	1752.9	1751.0	1749.2	1748.7
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



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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°	23.1	20.8	18.5	17.2	17.1	16.9	16.7	16.5	16.7	16.9	17.1
95°	28.3	28.0	27.7	32.4	42.3	52.2	62.1	72.0	62.1	52.2	42.3
97.5°	99.6	132.0	164.5	177.6	171.5	165.3	159.2	153.0	159.2	165.3	171.5
100°	137.9	178.1	218.3	235.8	230.6	225.3	220.0	214.8	220.0	225.3	230.6
102.5°	288.2	293.4	298.6	299.3	295.5	291.6	287.8	284.0	287.8	291.6	295.5
105°	405.8	404.3	402.8	401.2	399.5	397.8	396.0	394.3	396.0	397.8	399.5
107.5°	505.5	503.6	501.6	500.2	499.3	498.5	497.6	496.7	497.6	498.5	499.3
110°	574.1	572.4	570.7	569.4	568.5	567.6	566.7	565.8	566.7	567.6	568.5





TEST NUMBER: P332823-840

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	642.1	641.3	640.4	639.2	637.6	636.1	634.5	632.9	634.5	636.1	637.6
115°	739.3	739.6	739.9	739.6	738.7	737.9	737.0	736.1	737.0	737.9	738.7
117.5°	836.0	835.4	834.7	833.7	832.6	831.4	830.3	829.1	830.3	831.4	832.6
120°	896.6	896.9	897.1	896.7	895.5	894.3	893.1	892.0	893.1	894.3	895.5
122.5°	954.8	954.4	954.0	953.5	952.8	952.1	951.4	950.7	951.4	952.1	952.8
125°	1038.5	1039.2	1039.8	1039.5	1038.2	1037.1	1035.9	1034.8	1035.9	1037.1	1038.2
127.5°	1119.0	1117.7	1116.4	1115.6	1115.3	1115.0	1114.7	1114.4	1114.7	1115.0	1115.3
130°	1169.2	1168.4	1167.5	1166.9	1166.6	1166.4	1166.1	1165.8	1166.1	1166.4	1166.6
132.5°	1218.0	1217.0	1215.9	1215.0	1214.5	1214.0	1213.5	1212.9	1213.5	1214.0	1214.5
135°	1285.3	1284.0	1282.9	1282.5	1282.8	1283.0	1283.3	1283.6	1283.3	1283.0	1282.8
137.5°	1350.0	1348.7	1347.5	1346.8	1346.7	1346.5	1346.4	1346.3	1346.4	1346.5	1346.7
140°	1391.2	1390.6	1390.1	1389.5	1388.9	1388.3	1387.8	1387.2	1387.8	1388.3	1388.9
142.5°	1429.4	1429.1	1428.7	1428.1	1426.9	1425.9	1424.8	1423.8	1424.8	1425.9	1426.9
145°	1484.1	1484.1	1484.1	1483.6	1482.8	1481.9	1481.0	1480.2	1481.0	1481.9	1482.8
147.5°	1531.6	1531.9	1532.2	1531.5	1529.8	1528.2	1526.5	1524.9	1526.5	1528.2	1529.8
150°	1562.0	1562.3	1562.5	1562.1	1560.9	1559.7	1558.6	1557.4	1558.6	1559.7	1560.9
152.5°	1587.5	1588.1	1588.6	1588.4	1587.4	1586.5	1585.6	1584.7	1585.6	1586.5	1587.4
155°	1622.0	1623.0	1623.8	1624.1	1623.8	1623.5	1623.2	1623.0	1623.2	1623.5	1623.8
157.5°	1651.8	1652.8	1653.9	1654.5	1654.6	1654.8	1655.0	1655.2	1655.0	1654.8	1654.6
160°	1669.3	1669.6	1669.9	1670.5	1671.3	1672.2	1673.1	1674.0	1673.1	1672.2	1671.3
162.5°	1685.1	1685.4	1685.7	1686.4	1687.5	1688.6	1689.6	1690.7	1689.6	1688.6	1687.5
165°	1705.5	1705.5	1705.5	1706.2	1707.6	1709.1	1710.5	1712.0	1710.5	1709.1	1707.6
167.5°	1721.5	1721.7	1721.8	1722.7	1724.2	1725.8	1727.3	1728.8	1727.3	1725.8	1724.2
170°	1731.0	1730.7	1730.5	1731.2	1732.9	1734.6	1736.5	1738.2	1736.5	1734.6	1732.9
172.5°	1737.4	1737.1	1736.8	1737.5	1739.2	1741.0	1742.7	1744.4	1742.7	1741.0	1739.2
175°	1744.1	1743.8	1743.5	1744.2	1746.1	1747.8	1749.5	1751.3	1749.5	1747.8	1746.1
177.5°	1748.3	1747.8	1747.3	1747.9	1749.5	1751.1	1752.8	1754.4	1752.8	1751.1	1749.5
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



TEST NUMBER: P332823-840

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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	35.9	37.0
92.5°	17.2	18.5	20.8	23.1	25.4	27.8	29.5	31.3	33.0	34.7	35.6
95°	32.4	27.7	28.0	28.3	28.5	28.8	30.6	32.3	34.0	35.9	36.9
97.5°	177.6	164.5	132.0	99.6	67.1	34.5	34.7	34.9	35.1	35.2	35.5
100°	235.8	218.3	178.1	137.9	97.8	57.7	52.7	47.8	42.8	37.9	35.5
102.5°	299.3	298.6	293.4	288.2	283.0	277.7	224.3	171.0	117.5	64.1	37.5
105°	401.2	402.8	404.3	405.8	407.2	408.7	411.3	413.9	416.6	419.2	415.3
107.5°	500.2	501.6	503.6	505.5	507.6	509.6	510.8	512.1	513.4	514.6	515.8
110°	569.4	570.7	572.4	574.1	575.9	577.6	578.2	578.9	579.4	580.0	580.7



TEST NUMBER: P332823-840

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	639.2	640.4	641.3	642.1	642.9	643.7	643.6	643.4	643.3	643.2	643.7
115°	739.6	739.9	739.6	739.3	739.0	738.7	739.3	739.9	740.5	741.0	741.3
117.5°	833.7	834.7	835.4	836.0	836.6	837.3	837.2	837.0	836.9	836.8	836.7
120°	896.7	897.1	896.9	896.6	896.3	896.0	896.6	897.1	897.7	898.3	898.3
122.5°	953.5	954.0	954.4	954.8	955.2	955.6	956.0	956.3	956.7	957.0	956.9
125°	1039.5	1039.8	1039.2	1038.5	1037.9	1037.4	1038.2	1039.2	1040.1	1040.9	1041.5
127.5°	1115.6	1116.4	1117.7	1119.0	1120.4	1121.8	1121.6	1121.5	1121.3	1121.1	1120.8
130°	1166.9	1167.5	1168.4	1169.2	1170.1	1171.0	1171.3	1171.5	1171.8	1172.2	1172.4
132.5°	1215.0	1215.9	1217.0	1218.0	1219.1	1220.2	1220.5	1220.8	1221.1	1221.4	1221.4
135°	1282.5	1282.9	1284.0	1285.3	1286.5	1287.6	1288.2	1288.8	1289.3	1289.9	1290.5
137.5°	1346.8	1347.5	1348.7	1350.0	1351.3	1352.5	1353.2	1353.8	1354.4	1355.1	1355.3
140°	1389.5	1390.1	1390.6	1391.2	1391.8	1392.4	1393.2	1394.1	1395.0	1395.8	1396.4
142.5°	1428.1	1428.7	1429.1	1429.4	1429.8	1430.1	1430.8	1431.4	1432.0	1432.7	1433.0
145°	1483.6	1484.1	1484.1	1484.1	1484.1	1484.1	1484.4	1484.6	1484.9	1485.2	1485.7
147.5°	1531.5	1532.2	1531.9	1531.6	1531.3	1531.0	1531.2	1531.5	1531.7	1531.9	1532.2
150°	1562.1	1562.5	1562.3	1562.0	1561.7	1561.4	1561.4	1561.4	1561.4	1561.4	1561.5
152.5°	1588.4	1588.6	1588.1	1587.5	1587.0	1586.5	1587.0	1587.4	1587.9	1588.3	1588.5
155°	1624.1	1623.8	1623.0	1622.0	1621.1	1620.3	1621.4	1622.7	1623.8	1625.0	1625.1
157.5°	1654.5	1653.9	1652.8	1651.8	1650.9	1649.9	1651.4	1652.9	1654.5	1656.0	1656.0
160°	1670.5	1669.9	1669.6	1669.3	1669.0	1668.8	1670.5	1672.2	1674.0	1675.8	1675.8
162.5°	1686.4	1685.7	1685.4	1685.1	1684.8	1684.5	1686.2	1688.0	1689.7	1691.4	1691.3
165°	1706.2	1705.5	1705.5	1705.5	1705.5	1705.5	1707.8	1710.1	1712.4	1714.8	1714.5
167.5°	1722.7	1721.8	1721.7	1721.5	1721.3	1721.1	1723.7	1726.3	1728.8	1731.4	1731.2
170°	1731.2	1730.5	1730.7	1731.0	1731.3	1731.6	1733.9	1736.3	1738.6	1740.9	1740.6
172.5°	1737.5	1736.8	1737.1	1737.4	1737.6	1737.9	1740.2	1742.5	1744.9	1747.3	1746.9
175°	1744.2	1743.5	1743.8	1744.1	1744.4	1744.7	1747.4	1750.0	1752.6	1755.2	1754.7
177.5°	1747.9	1747.3	1747.8	1748.3	1748.7	1749.2	1751.0	1752.9	1754.7	1756.7	1756.2
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



TEST NUMBER: P332823-840

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

**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	35.9	34.0	32.3
92.5°	35.9	36.0	36.1	36.2	36.1	36.0	35.9	35.6	34.7	33.0	31.3
95°	37.1	37.4	37.7	38.0	37.7	37.4	37.1	36.9	35.9	34.0	32.3
97.5°	35.9	36.1	36.4	36.7	36.4	36.1	35.9	35.5	35.2	35.1	34.9
100°	35.9	36.1	36.4	36.7	36.4	36.1	35.9	35.5	37.9	42.8	47.8
102.5°	37.6	37.6	37.7	37.8	37.7	37.6	37.6	37.5	64.1	117.5	171.0
105°	404.8	394.3	383.7	373.3	383.7	394.3	404.8	415.3	419.2	416.6	413.9
107.5°	516.9	518.1	519.2	520.3	519.2	518.1	516.9	515.8	514.6	513.4	512.1
110°	581.6	582.5	583.3	584.2	583.3	582.5	581.6	580.7	580.0	579.4	578.9



TEST NUMBER: P332823-840

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	644.8	645.9	647.0	648.1	647.0	645.9	644.8	643.7	643.2	643.3	643.4
115°	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.3	741.0	740.5	739.9
117.5°	836.6	836.5	836.4	836.2	836.4	836.5	836.6	836.7	836.8	836.9	837.0
120°	897.7	897.1	896.6	896.0	896.6	897.1	897.7	898.3	898.3	897.7	897.1
122.5°	956.3	955.7	955.2	954.6	955.2	955.7	956.3	956.9	957.0	956.7	956.3
125°	1041.8	1042.1	1042.4	1042.7	1042.4	1042.1	1041.8	1041.5	1040.9	1040.1	1039.2
127.5°	1120.6	1120.3	1120.1	1119.9	1120.1	1120.3	1120.6	1120.8	1121.1	1121.3	1121.5
130°	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.4	1172.2	1171.8	1171.5
132.5°	1221.2	1221.0	1220.7	1220.5	1220.7	1221.0	1221.2	1221.4	1221.4	1221.1	1220.8
135°	1291.1	1291.6	1292.2	1292.8	1292.2	1291.6	1291.1	1290.5	1289.9	1289.3	1288.8
137.5°	1355.1	1355.0	1354.8	1354.6	1354.8	1355.0	1355.1	1355.3	1355.1	1354.4	1353.8
140°	1396.7	1397.0	1397.4	1397.7	1397.4	1397.0	1396.7	1396.4	1395.8	1395.0	1394.1
142.5°	1433.1	1433.1	1433.2	1433.2	1433.2	1433.1	1433.1	1433.0	1432.7	1432.0	1431.4
145°	1486.2	1486.8	1487.4	1488.0	1487.4	1486.8	1486.2	1485.7	1485.2	1484.9	1484.6
147.5°	1532.5	1532.8	1533.0	1533.3	1533.0	1532.8	1532.5	1532.2	1531.9	1531.7	1531.5
150°	1561.8	1562.1	1562.4	1562.7	1562.4	1562.1	1561.8	1561.5	1561.4	1561.4	1561.4
152.5°	1588.3	1588.1	1588.0	1587.8	1588.0	1588.1	1588.3	1588.5	1588.3	1587.9	1587.4
155°	1624.3	1623.4	1622.4	1621.6	1622.4	1623.4	1624.3	1625.1	1625.0	1623.8	1622.7
157.5°	1654.5	1652.9	1651.4	1649.9	1651.4	1652.9	1654.5	1656.0	1656.0	1654.5	1652.9
160°	1674.0	1672.2	1670.5	1668.8	1670.5	1672.2	1674.0	1675.8	1675.8	1674.0	1672.2
162.5°	1689.4	1687.4	1685.4	1683.4	1685.4	1687.4	1689.4	1691.3	1691.4	1689.7	1688.0
165°	1712.0	1709.4	1706.8	1704.1	1706.8	1709.4	1712.0	1714.5	1714.8	1712.4	1710.1
167.5°	1728.3	1725.4	1722.5	1719.6	1722.5	1725.4	1728.3	1731.2	1731.4	1728.8	1726.3
170°	1737.8	1734.8	1731.9	1729.0	1731.9	1734.8	1737.8	1740.6	1740.9	1738.6	1736.3
172.5°	1743.6	1740.5	1737.4	1734.2	1737.4	1740.5	1743.6	1746.9	1747.3	1744.9	1742.5
175°	1751.3	1747.8	1744.2	1740.8	1744.2	1747.8	1751.3	1754.7	1755.2	1752.6	1750.0
177.5°	1753.3	1750.6	1747.8	1744.9	1747.8	1750.6	1753.3	1756.2	1756.7	1754.7	1752.9
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



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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°	29.5	27.8	25.4	23.1	20.8	18.5	17.2	17.1	16.9	16.7	16.5
95°	30.6	28.8	28.5	28.3	28.0	27.7	32.4	42.3	52.2	62.1	72.0
97.5°	34.7	34.5	67.1	99.6	132.0	164.5	177.6	171.5	165.3	159.2	153.0
100°	52.7	57.7	97.8	137.9	178.1	218.3	235.8	230.6	225.3	220.0	214.8
102.5°	224.3	277.7	283.0	288.2	293.4	298.6	299.3	295.5	291.6	287.8	284.0
105°	411.3	408.7	407.2	405.8	404.3	402.8	401.2	399.5	397.8	396.0	394.3
107.5°	510.8	509.6	507.6	505.5	503.6	501.6	500.2	499.3	498.5	497.6	496.7
110°	578.2	577.6	575.9	574.1	572.4	570.7	569.4	568.5	567.6	566.7	565.8



TEST NUMBER: P332823-840

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	643.6	643.7	642.9	642.1	641.3	640.4	639.2	637.6	636.1	634.5	632.9
115°	739.3	738.7	739.0	739.3	739.6	739.9	739.6	738.7	737.9	737.0	736.1
117.5°	837.2	837.3	836.6	836.0	835.4	834.7	833.7	832.6	831.4	830.3	829.1
120°	896.6	896.0	896.3	896.6	896.9	897.1	896.7	895.5	894.3	893.1	892.0
122.5°	956.0	955.6	955.2	954.8	954.4	954.0	953.5	952.8	952.1	951.4	950.7
125°	1038.2	1037.4	1037.9	1038.5	1039.2	1039.8	1039.5	1038.2	1037.1	1035.9	1034.8
127.5°	1121.6	1121.8	1120.4	1119.0	1117.7	1116.4	1115.6	1115.3	1115.0	1114.7	1114.4
130°	1171.3	1171.0	1170.1	1169.2	1168.4	1167.5	1166.9	1166.6	1166.4	1166.1	1165.8
132.5°	1220.5	1220.2	1219.1	1218.0	1217.0	1215.9	1215.0	1214.5	1214.0	1213.5	1212.9
135°	1288.2	1287.6	1286.5	1285.3	1284.0	1282.9	1282.5	1282.8	1283.0	1283.3	1283.6
137.5°	1353.2	1352.5	1351.3	1350.0	1348.7	1347.5	1346.8	1346.7	1346.5	1346.4	1346.3
140°	1393.2	1392.4	1391.8	1391.2	1390.6	1390.1	1389.5	1388.9	1388.3	1387.8	1387.2
142.5°	1430.8	1430.1	1429.8	1429.4	1429.1	1428.7	1428.1	1426.9	1425.9	1424.8	1423.8
145°	1484.4	1484.1	1484.1	1484.1	1484.1	1484.1	1483.6	1482.8	1481.9	1481.0	1480.2
147.5°	1531.2	1531.0	1531.3	1531.6	1531.9	1532.2	1531.5	1529.8	1528.2	1526.5	1524.9
150°	1561.4	1561.4	1561.7	1562.0	1562.3	1562.5	1562.1	1560.9	1559.7	1558.6	1557.4
152.5°	1587.0	1586.5	1587.0	1587.5	1588.1	1588.6	1588.4	1587.4	1586.5	1585.6	1584.7
155°	1621.4	1620.3	1621.1	1622.0	1623.0	1623.8	1624.1	1623.8	1623.5	1623.2	1623.0
157.5°	1651.4	1649.9	1650.9	1651.8	1652.8	1653.9	1654.5	1654.6	1654.8	1655.0	1655.2
160°	1670.5	1668.8	1669.0	1669.3	1669.6	1669.9	1670.5	1671.3	1672.2	1673.1	1674.0
162.5°	1686.2	1684.5	1684.8	1685.1	1685.4	1685.7	1686.4	1687.5	1688.6	1689.6	1690.7
165°	1707.8	1705.5	1705.5	1705.5	1705.5	1705.5	1706.2	1707.6	1709.1	1710.5	1712.0
167.5°	1723.7	1721.1	1721.3	1721.5	1721.7	1721.8	1722.7	1724.2	1725.8	1727.3	1728.8
170°	1733.9	1731.6	1731.3	1731.0	1730.7	1730.5	1731.2	1732.9	1734.6	1736.5	1738.2
172.5°	1740.2	1737.9	1737.6	1737.4	1737.1	1736.8	1737.5	1739.2	1741.0	1742.7	1744.4
175°	1747.4	1744.7	1744.4	1744.1	1743.8	1743.5	1744.2	1746.1	1747.8	1749.5	1751.3
177.5°	1751.0	1749.2	1748.7	1748.3	1747.8	1747.3	1747.9	1749.5	1751.1	1752.8	1754.4
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



TEST NUMBER: P332823-840

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**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°	16.7	16.9	17.1	17.2	18.5	20.8	23.1	25.4	27.8	29.5	31.3
95°	62.1	52.2	42.3	32.4	27.7	28.0	28.3	28.5	28.8	30.6	32.3
97.5°	159.2	165.3	171.5	177.6	164.5	132.0	99.6	67.1	34.5	34.7	34.9
100°	220.0	225.3	230.6	235.8	218.3	178.1	137.9	97.8	57.7	52.7	47.8
102.5°	287.8	291.6	295.5	299.3	298.6	293.4	288.2	283.0	277.7	224.3	171.0
105°	396.0	397.8	399.5	401.2	402.8	404.3	405.8	407.2	408.7	411.3	413.9
107.5°	497.6	498.5	499.3	500.2	501.6	503.6	505.5	507.6	509.6	510.8	512.1
110°	566.7	567.6	568.5	569.4	570.7	572.4	574.1	575.9	577.6	578.2	578.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	634.5	636.1	637.6	639.2	640.4	641.3	642.1	642.9	643.7	643.6	643.4
115°	737.0	737.9	738.7	739.6	739.9	739.6	739.3	739.0	738.7	739.3	739.9
117.5°	830.3	831.4	832.6	833.7	834.7	835.4	836.0	836.6	837.3	837.2	837.0
120°	893.1	894.3	895.5	896.7	897.1	896.9	896.6	896.3	896.0	896.6	897.1
122.5°	951.4	952.1	952.8	953.5	954.0	954.4	954.8	955.2	955.6	956.0	956.3
125°	1035.9	1037.1	1038.2	1039.5	1039.8	1039.2	1038.5	1037.9	1037.4	1038.2	1039.2
127.5°	1114.7	1115.0	1115.3	1115.6	1116.4	1117.7	1119.0	1120.4	1121.8	1121.6	1121.5
130°	1166.1	1166.4	1166.6	1166.9	1167.5	1168.4	1169.2	1170.1	1171.0	1171.3	1171.5
132.5°	1213.5	1214.0	1214.5	1215.0	1215.9	1217.0	1218.0	1219.1	1220.2	1220.5	1220.8
135°	1283.3	1283.0	1282.8	1282.5	1282.9	1284.0	1285.3	1286.5	1287.6	1288.2	1288.8
137.5°	1346.4	1346.5	1346.7	1346.8	1347.5	1348.7	1350.0	1351.3	1352.5	1353.2	1353.8
140°	1387.8	1388.3	1388.9	1389.5	1390.1	1390.6	1391.2	1391.8	1392.4	1393.2	1394.1
142.5°	1424.8	1425.9	1426.9	1428.1	1428.7	1429.1	1429.4	1429.8	1430.1	1430.8	1431.4
145°	1481.0	1481.9	1482.8	1483.6	1484.1	1484.1	1484.1	1484.1	1484.1	1484.4	1484.6
147.5°	1526.5	1528.2	1529.8	1531.5	1532.2	1531.9	1531.6	1531.3	1531.0	1531.2	1531.5
150°	1558.6	1559.7	1560.9	1562.1	1562.5	1562.3	1562.0	1561.7	1561.4	1561.4	1561.4
152.5°	1585.6	1586.5	1587.4	1588.4	1588.6	1588.1	1587.5	1587.0	1586.5	1587.0	1587.4
155°	1623.2	1623.5	1623.8	1624.1	1623.8	1623.0	1622.0	1621.1	1620.3	1621.4	1622.7
157.5°	1655.0	1654.8	1654.6	1654.5	1653.9	1652.8	1651.8	1650.9	1649.9	1651.4	1652.9
160°	1673.1	1672.2	1671.3	1670.5	1669.9	1669.6	1669.3	1669.0	1668.8	1670.5	1672.2
162.5°	1689.6	1688.6	1687.5	1686.4	1685.7	1685.4	1685.1	1684.8	1684.5	1686.2	1688.0
165°	1710.5	1709.1	1707.6	1706.2	1705.5	1705.5	1705.5	1705.5	1705.5	1707.8	1710.1
167.5°	1727.3	1725.8	1724.2	1722.7	1721.8	1721.7	1721.5	1721.3	1721.1	1723.7	1726.3
170°	1736.5	1734.6	1732.9	1731.2	1730.5	1730.7	1731.0	1731.3	1731.6	1733.9	1736.3
172.5°	1742.7	1741.0	1739.2	1737.5	1736.8	1737.1	1737.4	1737.6	1737.9	1740.2	1742.5
175°	1749.5	1747.8	1746.1	1744.2	1743.5	1743.8	1744.1	1744.4	1744.7	1747.4	1750.0
177.5°	1752.8	1751.1	1749.5	1747.9	1747.3	1747.8	1748.3	1748.7	1749.2	1751.0	1752.9
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3



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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	35.9	37.0	37.6	38.2	38.7	39.3
92.5°	33.0	34.7	35.6	35.9	36.0	36.1	36.2
95°	34.0	35.9	36.9	37.1	37.4	37.7	38.0
97.5°	35.1	35.2	35.5	35.9	36.1	36.4	36.7
100°	42.8	37.9	35.5	35.9	36.1	36.4	36.7
102.5°	117.5	64.1	37.5	37.6	37.6	37.7	37.8
105°	416.6	419.2	415.3	404.8	394.3	383.7	373.3
107.5°	513.4	514.6	515.8	516.9	518.1	519.2	520.3
110°	579.4	580.0	580.7	581.6	582.5	583.3	584.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	643.3	643.2	643.7	644.8	645.9	647.0	648.1
115°	740.5	741.0	741.3	741.3	741.3	741.3	741.3
117.5°	836.9	836.8	836.7	836.6	836.5	836.4	836.2
120°	897.7	898.3	898.3	897.7	897.1	896.6	896.0
122.5°	956.7	957.0	956.9	956.3	955.7	955.2	954.6
125°	1040.1	1040.9	1041.5	1041.8	1042.1	1042.4	1042.7
127.5°	1121.3	1121.1	1120.8	1120.6	1120.3	1120.1	1119.9
130°	1171.8	1172.2	1172.4	1172.4	1172.4	1172.4	1172.4
132.5°	1221.1	1221.4	1221.4	1221.2	1221.0	1220.7	1220.5
135°	1289.3	1289.9	1290.5	1291.1	1291.6	1292.2	1292.8
137.5°	1354.4	1355.1	1355.3	1355.1	1355.0	1354.8	1354.6
140°	1395.0	1395.8	1396.4	1396.7	1397.0	1397.4	1397.7
142.5°	1432.0	1432.7	1433.0	1433.1	1433.1	1433.2	1433.2
145°	1484.9	1485.2	1485.7	1486.2	1486.8	1487.4	1488.0
147.5°	1531.7	1531.9	1532.2	1532.5	1532.8	1533.0	1533.3
150°	1561.4	1561.4	1561.5	1561.8	1562.1	1562.4	1562.7
152.5°	1587.9	1588.3	1588.5	1588.3	1588.1	1588.0	1587.8
155°	1623.8	1625.0	1625.1	1624.3	1623.4	1622.4	1621.6
157.5°	1654.5	1656.0	1656.0	1654.5	1652.9	1651.4	1649.9
160°	1674.0	1675.8	1675.8	1674.0	1672.2	1670.5	1668.8
162.5°	1689.7	1691.4	1691.3	1689.4	1687.4	1685.4	1683.4
165°	1712.4	1714.8	1714.5	1712.0	1709.4	1706.8	1704.1
167.5°	1728.8	1731.4	1731.2	1728.3	1725.4	1722.5	1719.6
170°	1738.6	1740.9	1740.6	1737.8	1734.8	1731.9	1729.0
172.5°	1744.9	1747.3	1746.9	1743.6	1740.5	1737.4	1734.2
175°	1752.6	1755.2	1754.7	1751.3	1747.8	1744.2	1740.8
177.5°	1754.7	1756.7	1756.2	1753.3	1750.6	1747.8	1744.9
180°	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3	1751.3

(END OF REPORT)