

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: P331573-840

Luminaire Tested: **S122DIW-S865D1240U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331573-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S865D1240U840-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8854.0 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

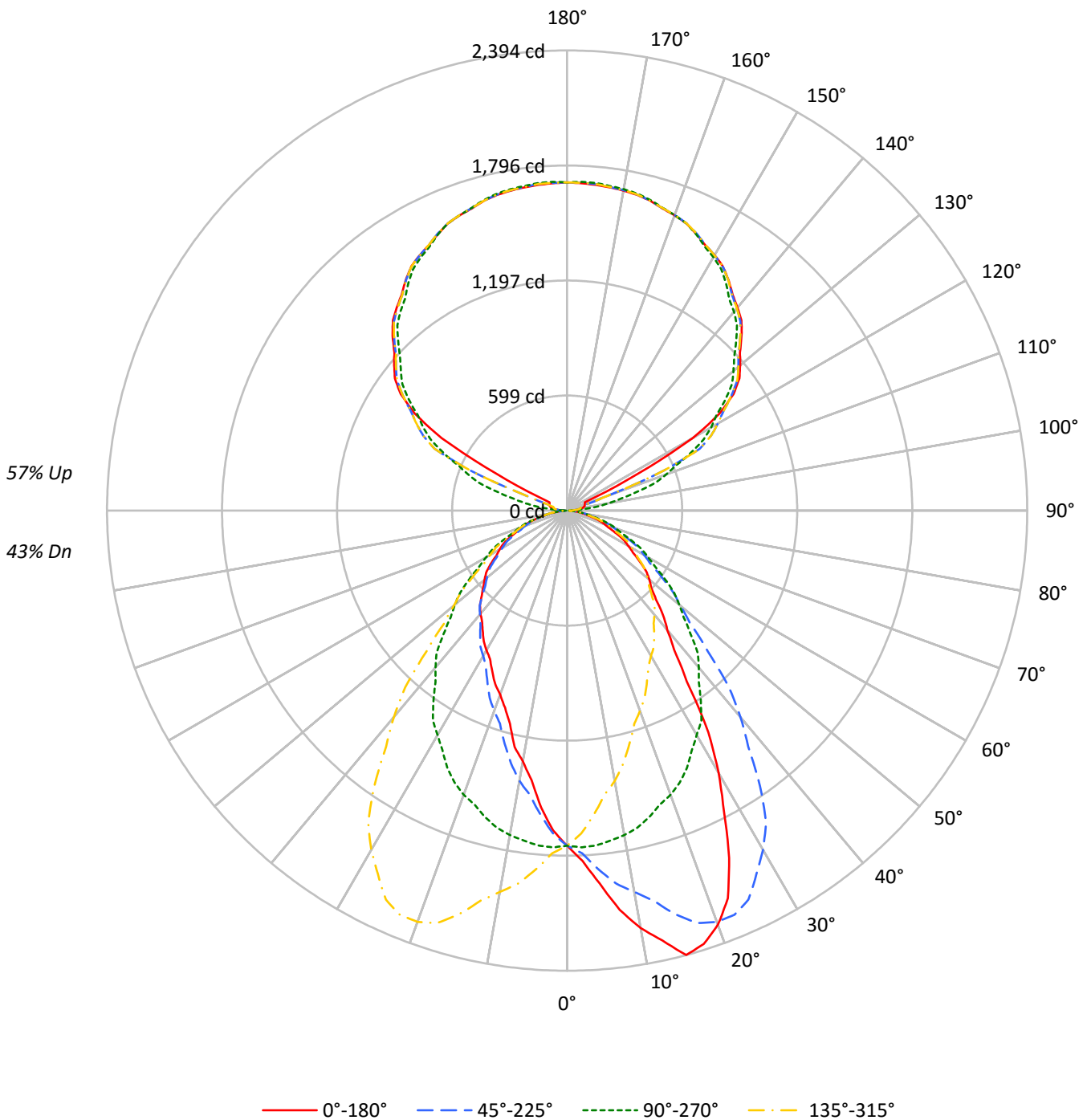
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	97	97	97	80	80	80	64	64	64	50	50	50	43				
1	97	93	89	86	88	85	82	79	70	68	66	57	56	54	45	44	43	37				
2	88	81	75	71	81	75	70	65	62	59	55	51	48	46	40	38	37	32				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	64	56	50	68	59	52	47	49	44	40	41	37	34	32	30	28	24				
5	68	57	49	43	62	53	46	41	44	39	35	37	33	30	29	27	25	21				
6	63	51	43	38	58	47	41	35	40	35	31	33	29	26	27	24	22	19				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	25	22	20	17				
8	54	42	35	30	50	39	32	28	33	28	24	28	24	21	23	20	18	15				
9	50	39	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14				
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13				

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

	0°	90°	180°	270°
0°	28150	28150	28150	28150
5°	31561	28336	25109	28336
10°	36166	28103	21730	28103
15°	40010	27587	19198	27587
20°	39400	27034	17500	27034
25°	35527	26298	16425	26298
30°	29358	25124	15642	25124
35°	21396	23893	15084	23893
40°	17089	22443	14773	22443
45°	14933	20763	14351	20763
50°	14039	19138	14071	19138
55°	12940	17486	13695	17486
60°	11858	15733	13114	15733
65°	10804	14155	12542	14155
70°	9805	12623	11703	12623
75°	8696	10911	10368	10911
80°	7476	9028	8350	9028
85°	6706	6706	4965	6706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.1	1.9
10°-20°	482.7	5.5
20°-30°	700.6	7.9
30°-40°	739.3	8.4
40°-50°	654.6	7.4
50°-60°	522.4	5.9
60°-70°	355.1	4.0
70°-80°	182.0	2.1
80°-90°	48.1	0.5
90°-100°	56.9	0.6
100°-110°	208.8	2.4
110°-120°	558.2	6.3
120°-130°	921.5	10.4
130°-140°	980.0	11.1
140°-150°	910.9	10.3
150°-160°	732.3	8.3
160°-170°	471.9	5.3
170°-180°	162.4	1.8
0°-30°	1349.4	15.2
0°-40°	2088.7	23.6
0°-60°	3265.7	36.9
0°-90°	3850.9	43.5
90°-120°	824.0	9.3
90°-150°	3636.4	41.1
90°-180°	5003.0	56.5
0°-180°	8854.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1744	1744	1744	1744	1744	
5°	1947	1748	1549	1748	1947	194
15°	2394	1650	1148	1650	2394	660
25°	1994	1476	922	1476	1994	901
35°	1086	1212	765	1212	1086	706
45°	654	909	628	909	654	514
55°	460	621	486	621	460	412
65°	283	370	328	370	283	281
75°	139	175	166	175	139	149
85°	36	36	27	36	36	40
90°	33	1	33	1	33	17
95°	53	80	53	80	53	50
105°	94	376	94	376	94	98
115°	101	710	101	710	101	254
125°	1056	1004	1056	1004	1056	914
135°	1284	1243	1284	1243	1284	989
145°	1464	1442	1464	1442	1464	915
155°	1589	1587	1589	1587	1589	733
165°	1669	1673	1669	1673	1669	471
175°	1701	1711	1701	1711	1701	162
180°	1707	1707	1707	1707	1707	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1824.0	1824.5	1825.6	1817.1	1815.9	1815.9	1808.5	1802.0	1794.5	1784.3	1785.4
5°	1947.3	1954.7	1957.3	1949.3	1937.2	1935.9	1924.5	1905.7	1888.3	1874.2	1864.2
7.5°	2094.5	2097.4	2090.8	2080.2	2071.2	2055.2	2034.0	2013.3	1984.2	1957.5	1937.6
10°	2205.9	2210.0	2198.6	2183.1	2170.4	2151.6	2120.8	2089.3	2051.1	2014.3	1984.8
12.5°	2290.7	2300.6	2285.9	2283.9	2262.1	2236.3	2199.7	2183.7	2130.0	2078.6	2047.0
15°	2393.6	2392.9	2394.3	2381.5	2365.4	2361.4	2322.6	2280.4	2204.6	2174.4	2122.2
17.5°	2363.8	2374.0	2378.7	2378.5	2378.1	2375.6	2363.2	2336.5	2298.6	2249.7	2189.3
20°	2293.1	2306.4	2308.5	2323.9	2332.6	2344.0	2348.6	2341.3	2317.8	2276.9	2224.7
22.5°	2183.7	2187.5	2193.7	2217.8	2236.6	2265.2	2280.1	2304.8	2295.8	2275.9	2232.2
25°	1994.2	1987.5	2010.9	2023.0	2066.6	2112.1	2145.0	2181.1	2213.3	2232.7	2220.0
27.5°	1766.7	1756.6	1791.7	1823.7	1859.1	1908.4	1959.6	2020.0	2070.3	2133.1	2154.7
30°	1574.7	1580.7	1614.3	1648.4	1702.0	1771.7	1829.4	1895.7	1967.4	2037.7	2086.7
32.5°	1367.8	1391.0	1412.2	1464.5	1511.8	1589.4	1673.9	1756.9	1846.2	1926.2	2002.0
35°	1085.5	1112.4	1141.9	1180.0	1246.4	1323.4	1405.8	1517.7	1639.7	1749.0	1838.8
37.5°	913.7	909.5	926.3	953.9	1007.6	1069.9	1164.8	1275.4	1418.9	1547.2	1673.9
40°	810.8	808.1	820.2	845.7	886.6	932.1	1015.2	1112.4	1245.7	1402.5	1553.3
42.5°	740.0	741.6	748.3	766.3	794.4	831.8	894.0	976.7	1098.8	1246.5	1408.6
45°	654.0	658.7	666.1	674.8	690.8	721.6	756.5	815.5	912.0	1035.3	1194.8
47.5°	592.1	592.2	599.8	607.3	616.9	634.3	662.7	699.7	767.8	868.2	1005.3
50°	558.9	554.2	559.6	565.5	575.6	587.6	606.4	641.3	686.8	767.9	882.5
52.5°	518.2	518.3	523.1	525.3	534.3	546.4	563.5	587.6	628.9	692.4	786.6
55°	459.7	463.0	465.7	469.7	477.8	486.5	499.9	515.9	548.2	595.7	665.4
57.5°	404.8	405.8	408.5	416.2	421.2	429.3	442.0	456.6	477.5	512.7	565.1
60°	367.2	367.2	372.5	375.9	382.6	390.6	400.7	414.8	433.5	462.3	504.6
62.5°	333.0	332.3	334.5	340.0	345.1	352.6	362.6	374.6	392.2	417.9	452.6
65°	282.8	281.4	285.5	286.8	292.2	299.5	307.6	320.3	334.4	353.1	384.0
67.5°	234.5	236.1	238.3	240.9	243.8	251.6	256.9	265.9	277.8	293.4	314.3
70°	207.7	207.7	207.7	209.7	213.8	217.8	223.2	230.6	241.9	255.3	274.1
72.5°	177.7	179.9	182.0	180.8	185.9	188.3	194.7	198.8	209.7	218.3	234.9
75°	139.4	139.4	139.4	142.7	144.7	146.7	150.8	154.8	160.2	170.9	179.6
77.5°	104.0	103.7	104.4	105.2	107.3	109.8	111.0	114.6	119.6	124.5	131.9
80°	80.4	81.8	82.4	83.7	83.7	85.1	85.7	90.5	93.8	97.1	101.9
82.5°	62.2	62.4	62.6	62.8	63.4	64.2	65.9	67.5	68.6	71.4	75.0
85°	36.2	35.5	35.5	36.9	36.2	36.2	37.6	38.9	38.9	39.5	41.5
87.5°	20.6	20.5	20.9	20.3	20.2	20.5	20.2	19.4	19.7	20.0	20.1
90°	33.3	32.8	32.2	31.7	31.2	30.2	28.8	27.5	26.1	24.7	22.5
92.5°	33.3	33.0	32.7	32.3	32.0	31.5	30.8	30.1	29.4	28.7	27.6
95°	53.1	53.4	53.6	53.9	54.2	53.6	52.3	50.9	49.6	48.2	46.3
97.5°	70.9	70.6	70.3	69.9	69.6	68.9	67.8	66.7	65.5	64.5	60.1
100°	82.8	82.2	81.7	81.1	80.6	79.2	77.0	74.8	72.6	70.4	65.7
102.5°	88.7	88.0	87.2	86.3	85.6	83.8	81.0	78.1	75.2	72.4	111.4
105°	93.9	92.8	91.7	90.6	89.5	87.5	84.4	81.4	78.4	75.3	150.3
107.5°	96.6	95.5	94.4	93.3	92.2	93.2	96.2	99.4	102.4	105.5	195.4
110°	97.6	96.5	95.4	94.3	93.2	106.3	133.8	161.3	188.7	216.2	295.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	98.6	97.7	96.8	95.9	95.0	144.7	244.9	345.0	445.1	545.2	564.9
115°	101.3	121.1	140.9	160.6	180.4	253.8	380.9	508.0	635.1	762.2	755.4
117.5°	413.5	478.6	543.5	608.4	673.4	721.2	751.9	782.7	813.4	844.2	839.5
120°	753.6	790.6	827.7	864.7	901.8	918.7	915.3	912.1	908.8	905.4	900.6
122.5°	940.3	947.6	954.7	961.9	969.1	971.7	969.8	967.8	965.7	963.8	958.5
125°	1056.2	1055.4	1054.6	1053.7	1052.9	1051.6	1049.7	1047.7	1045.8	1043.9	1038.6
127.5°	1129.3	1129.1	1129.0	1128.8	1128.7	1127.2	1124.4	1121.6	1118.8	1116.0	1112.1
130°	1174.8	1175.1	1175.4	1175.6	1175.9	1174.5	1171.5	1168.5	1165.5	1162.5	1159.4
132.5°	1219.3	1219.5	1219.8	1220.1	1220.3	1219.2	1216.6	1214.1	1211.4	1208.9	1205.9
135°	1283.5	1284.0	1284.6	1285.2	1285.7	1284.6	1281.8	1279.1	1276.4	1273.6	1271.1
137.5°	1342.0	1343.0	1343.9	1344.8	1345.7	1344.9	1342.2	1339.5	1336.9	1334.1	1331.3
140°	1378.7	1380.0	1381.4	1382.7	1384.1	1383.6	1381.1	1378.7	1376.1	1373.7	1370.7
142.5°	1414.2	1415.5	1416.9	1418.4	1419.7	1419.3	1417.0	1414.7	1412.5	1410.3	1406.7
145°	1463.9	1465.2	1466.6	1467.9	1469.4	1469.1	1467.1	1465.2	1463.3	1461.4	1456.7
147.5°	1507.6	1508.7	1509.8	1511.1	1512.2	1512.1	1510.7	1509.2	1507.8	1506.3	1501.8
150°	1534.3	1535.6	1537.0	1538.4	1539.7	1539.6	1538.0	1536.3	1534.7	1533.1	1528.6
152.5°	1557.0	1558.8	1560.6	1562.5	1564.3	1564.4	1562.7	1561.0	1559.4	1557.7	1553.6
155°	1588.6	1590.8	1593.1	1595.2	1597.4	1597.7	1596.1	1594.4	1592.8	1591.1	1587.8
157.5°	1617.5	1619.7	1621.8	1624.0	1626.1	1626.3	1624.4	1622.6	1620.6	1618.8	1616.5
160°	1634.4	1636.3	1638.2	1640.1	1642.0	1642.1	1640.5	1638.9	1637.2	1635.6	1634.0
162.5°	1648.2	1650.5	1652.8	1655.3	1657.6	1657.9	1656.0	1654.2	1652.2	1650.4	1649.0
165°	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6	1674.7	1672.7	1670.8	1668.9	1668.1
167.5°	1682.0	1684.5	1687.0	1689.4	1691.9	1692.1	1690.2	1688.3	1686.4	1684.5	1683.7
170°	1689.9	1692.4	1694.9	1697.4	1699.8	1700.1	1698.2	1696.3	1694.4	1692.4	1691.8
172.5°	1695.9	1698.3	1700.8	1703.2	1705.8	1706.0	1704.0	1702.1	1700.2	1698.3	1697.8
175°	1701.0	1703.7	1706.6	1709.3	1712.0	1712.4	1710.5	1708.6	1706.7	1704.8	1704.2
177.5°	1704.2	1706.3	1708.2	1710.2	1712.1	1712.4	1710.8	1709.3	1707.8	1706.3	1706.0
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1789.2	1784.8	1782.2	1772.5	1763.9	1755.3	1752.7	1753.7	1742.0	1730.7	1725.9
5°	1858.9	1845.4	1832.7	1814.6	1793.2	1769.7	1757.7	1748.3	1724.8	1699.4	1684.7
7.5°	1921.3	1902.1	1877.6	1843.6	1812.3	1775.4	1752.0	1731.2	1697.0	1661.0	1639.0
10°	1959.3	1933.2	1901.7	1860.2	1822.0	1777.1	1745.6	1714.1	1673.9	1631.0	1604.2
12.5°	1992.1	1956.8	1925.8	1872.5	1827.4	1771.2	1733.8	1689.4	1647.1	1596.2	1569.9
15°	2069.9	2004.9	1945.9	1885.6	1830.0	1751.6	1710.1	1650.4	1594.8	1531.9	1501.7
17.5°	2130.1	2057.1	1964.2	1887.5	1822.6	1735.9	1674.9	1603.4	1537.6	1465.6	1424.6
20°	2164.4	2080.6	1980.7	1889.7	1811.9	1712.7	1646.4	1573.4	1496.3	1415.2	1371.0
22.5°	2184.7	2096.7	1997.9	1881.6	1790.5	1693.9	1610.5	1530.5	1452.4	1364.8	1318.5
25°	2191.2	2110.8	2006.3	1874.9	1763.7	1654.5	1554.0	1476.2	1381.7	1300.0	1232.3
27.5°	2159.3	2101.6	2001.1	1862.3	1732.7	1605.0	1493.0	1404.9	1305.3	1216.5	1148.4
30°	2120.2	2086.7	1988.8	1849.5	1708.1	1570.7	1447.4	1347.6	1248.4	1158.6	1088.9
32.5°	2059.6	2052.3	1966.3	1831.2	1681.8	1527.3	1399.7	1298.8	1188.9	1100.7	1034.2
35°	1940.6	1972.8	1918.4	1790.5	1632.3	1465.5	1327.5	1212.2	1098.3	1013.8	951.5
37.5°	1781.1	1861.0	1846.7	1730.8	1565.6	1398.3	1245.9	1125.4	1016.8	931.6	870.4
40°	1671.2	1773.0	1787.8	1685.3	1518.4	1346.3	1184.8	1064.8	958.9	881.2	819.5
42.5°	1553.3	1672.2	1712.7	1630.6	1466.9	1291.5	1130.0	1005.8	901.0	825.5	770.7
45°	1355.6	1513.1	1586.1	1539.2	1381.1	1201.4	1035.3	909.3	814.2	743.2	700.9
47.5°	1170.7	1342.8	1441.1	1424.5	1285.5	1107.6	943.3	822.4	729.8	673.2	635.4
50°	1040.0	1216.9	1335.4	1340.9	1216.9	1040.7	875.9	761.9	676.8	623.9	593.0
52.5°	926.3	1095.2	1224.6	1252.9	1140.2	971.0	815.3	701.9	626.9	578.2	550.7
55°	778.0	920.7	1064.1	1116.4	1025.9	865.1	721.0	621.2	550.8	517.4	493.2
57.5°	646.8	765.8	898.2	955.9	900.2	762.5	627.4	540.8	483.6	454.3	435.9
60°	577.6	671.5	789.4	858.4	810.1	687.5	569.6	487.2	440.3	414.1	396.7
62.5°	513.3	596.4	696.1	759.2	733.0	617.3	511.7	438.9	398.4	374.0	361.3
65°	423.5	489.2	566.2	624.5	607.1	519.3	432.9	370.5	338.4	318.9	308.9
67.5°	348.7	396.2	449.6	500.7	486.7	424.4	355.0	306.5	282.6	265.8	259.7
70°	301.5	337.7	385.3	426.2	414.8	363.9	308.9	267.4	246.6	232.6	226.5
72.5°	256.5	286.3	322.6	356.0	348.3	306.0	260.1	228.7	212.8	199.9	194.9
75°	193.7	216.4	238.5	260.6	258.6	225.8	199.0	174.9	162.2	152.1	150.1
77.5°	143.0	155.7	170.8	183.9	180.3	161.5	140.5	126.6	117.2	110.6	109.5
80°	109.3	116.6	127.3	136.7	132.0	124.0	107.2	97.1	90.5	83.7	81.1
82.5°	79.2	86.5	93.0	98.1	94.5	86.9	76.6	69.8	65.8	61.2	60.2
85°	41.5	45.5	48.3	49.6	48.3	43.5	38.9	36.2	32.8	30.8	30.2
87.5°	20.1	19.7	19.3	19.8	17.6	17.0	14.2	12.0	12.1	12.2	11.7
90°	20.3	18.1	16.0	13.3	10.3	7.3	4.2	1.2	4.2	7.3	10.3
92.5°	26.5	25.3	24.2	23.8	24.1	24.4	24.6	24.9	24.6	24.4	24.1
95°	44.3	42.4	40.5	44.0	53.1	62.2	71.2	80.3	71.2	62.2	53.1
97.5°	55.5	51.1	46.7	57.3	82.8	108.3	133.8	159.4	133.8	108.3	82.8
100°	61.1	56.5	51.7	68.3	105.8	143.4	181.1	218.6	181.1	143.4	105.8
102.5°	150.5	189.5	228.5	252.1	260.0	267.9	275.9	283.9	275.9	267.9	260.0
105°	225.2	300.2	375.2	408.5	400.2	392.0	383.7	375.6	383.7	392.0	400.2
107.5°	285.3	375.2	465.0	506.6	500.0	493.3	486.7	480.1	486.7	493.3	500.0
110°	374.9	454.2	533.5	570.3	564.5	558.8	553.0	547.2	553.0	558.8	564.5





TEST NUMBER: P331573-840

CATALOG NUMBER: S122DIW-S865D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	584.5	604.1	623.7	631.0	625.8	620.7	615.6	610.5	615.6	620.7	625.8
115°	748.5	741.6	734.8	729.0	724.3	719.6	715.0	710.3	715.0	719.6	724.3
117.5°	834.8	830.0	825.4	820.4	815.2	809.9	804.8	799.5	804.8	809.9	815.2
120°	895.6	890.7	885.8	881.2	877.1	872.9	868.9	864.7	868.9	872.9	877.1
122.5°	953.0	947.7	942.3	937.5	933.1	928.8	924.4	920.1	924.4	928.8	933.1
125°	1033.4	1028.2	1023.0	1018.5	1015.0	1011.5	1007.8	1004.3	1007.8	1011.5	1015.0
127.5°	1108.2	1104.3	1100.4	1096.5	1092.6	1088.5	1084.6	1080.7	1084.6	1088.5	1092.6
130°	1156.4	1153.4	1150.3	1146.7	1142.3	1137.9	1133.5	1129.1	1133.5	1137.9	1142.3
132.5°	1202.9	1199.8	1196.8	1193.5	1189.7	1186.0	1182.2	1178.5	1182.2	1186.0	1189.7
135°	1268.7	1266.2	1263.7	1260.3	1255.9	1251.5	1247.1	1242.7	1247.1	1251.5	1255.9
137.5°	1328.6	1325.8	1322.9	1320.0	1317.0	1313.8	1310.8	1307.7	1310.8	1313.8	1317.0
140°	1367.7	1364.6	1361.6	1359.0	1356.8	1354.6	1352.4	1350.2	1352.4	1354.6	1356.8
142.5°	1403.3	1399.9	1396.4	1393.7	1391.7	1389.8	1387.8	1385.8	1387.8	1389.8	1391.7
145°	1452.1	1447.4	1442.7	1440.6	1440.8	1441.1	1441.4	1441.6	1441.4	1441.1	1440.8
147.5°	1497.1	1492.5	1487.9	1486.1	1487.1	1488.2	1489.2	1490.3	1489.2	1488.2	1487.1
150°	1524.3	1519.8	1515.5	1514.2	1516.1	1518.1	1520.0	1522.0	1520.0	1518.1	1516.1
152.5°	1549.4	1545.2	1541.1	1540.0	1542.2	1544.3	1546.5	1548.6	1546.5	1544.3	1542.2
155°	1584.5	1581.2	1577.9	1577.5	1579.9	1582.5	1584.9	1587.4	1584.9	1582.5	1579.9
157.5°	1614.2	1611.8	1609.5	1609.4	1611.5	1613.6	1615.7	1617.8	1615.7	1613.6	1611.5
160°	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1634.0	1632.2	1630.6
162.5°	1647.5	1646.1	1644.7	1644.8	1646.5	1648.1	1649.7	1651.4	1649.7	1648.1	1646.5
165°	1667.3	1666.5	1665.7	1666.1	1667.7	1669.3	1671.0	1672.6	1671.0	1669.3	1667.7
167.5°	1682.9	1682.2	1681.4	1681.8	1683.5	1685.2	1686.8	1688.5	1686.8	1685.2	1683.5
170°	1691.3	1690.7	1690.2	1690.7	1692.4	1694.0	1695.7	1697.4	1695.7	1694.0	1692.4
172.5°	1697.2	1696.7	1696.2	1696.7	1698.3	1700.0	1701.6	1703.2	1701.6	1700.0	1698.3
175°	1703.6	1703.1	1702.5	1703.2	1705.2	1707.1	1709.0	1710.9	1709.0	1707.1	1705.2
177.5°	1705.8	1705.6	1705.4	1706.0	1707.6	1709.1	1710.6	1712.1	1710.6	1709.1	1707.6
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331573-840

CATALOG NUMBER: S122DIW-S865D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1720.5	1717.3	1706.1	1700.2	1690.5	1681.4	1675.5	1678.2	1680.3	1679.2	1677.7
5°	1671.2	1658.5	1639.0	1622.2	1610.2	1588.1	1578.7	1574.1	1570.0	1565.3	1560.6
7.5°	1612.6	1592.5	1564.5	1540.7	1518.1	1490.7	1475.0	1465.6	1456.0	1445.4	1436.0
10°	1570.7	1542.6	1513.1	1479.6	1452.8	1427.9	1405.8	1391.1	1377.8	1364.9	1355.6
12.5°	1526.7	1494.3	1457.8	1412.0	1382.5	1347.1	1343.6	1317.7	1296.8	1288.9	1277.9
15°	1456.8	1411.2	1364.9	1310.7	1287.3	1255.1	1235.0	1214.9	1196.8	1184.1	1180.7
17.5°	1377.4	1318.4	1272.3	1233.3	1194.9	1162.0	1143.5	1127.4	1112.5	1095.5	1093.2
20°	1316.8	1265.8	1215.6	1181.3	1141.9	1108.3	1085.5	1069.4	1056.7	1046.7	1037.9
22.5°	1259.4	1203.7	1157.6	1120.2	1081.3	1054.2	1036.2	1020.7	1010.1	999.0	990.8
25°	1167.3	1123.8	1073.5	1031.3	999.1	981.7	966.9	953.5	946.8	939.5	930.1
27.5°	1086.7	1038.3	991.4	958.7	930.4	914.9	904.5	895.3	889.1	884.7	879.4
30°	1030.0	981.0	944.1	912.0	888.6	873.1	866.5	861.1	853.7	851.0	848.4
32.5°	975.2	931.2	899.7	871.8	849.4	839.4	833.2	828.4	822.6	819.9	814.6
35°	898.0	861.1	830.2	814.9	796.8	788.0	783.4	776.7	771.2	768.6	767.9
37.5°	825.2	793.1	772.8	753.1	745.4	740.0	733.7	729.0	727.4	727.0	726.4
40°	778.0	751.8	733.8	717.7	714.3	706.3	700.9	696.9	696.9	697.6	696.9
42.5°	735.1	711.7	695.7	681.8	677.8	673.1	667.7	667.4	668.5	670.8	668.5
45°	670.0	653.4	642.0	635.2	627.8	623.2	622.5	624.5	625.2	625.9	627.8
47.5°	610.4	599.2	588.9	581.5	578.2	577.4	576.6	580.2	583.4	584.6	587.6
50°	574.9	562.2	553.5	548.8	546.1	544.8	546.1	550.2	552.8	556.1	558.2
52.5°	535.2	526.2	520.3	516.6	515.5	516.3	516.6	521.2	525.5	526.6	527.7
55°	480.5	473.7	472.4	466.4	469.1	468.4	471.7	474.4	478.5	482.5	483.1
57.5°	425.8	420.4	416.8	417.4	418.2	421.1	423.9	428.6	432.9	437.2	437.6
60°	389.3	386.7	384.7	384.7	386.0	390.0	393.3	398.0	400.7	403.4	405.4
62.5°	356.1	353.5	351.4	352.4	356.0	358.4	362.2	364.8	367.5	370.1	371.1
65°	303.6	302.3	304.3	305.6	306.2	309.6	314.3	316.3	318.9	320.3	325.0
67.5°	255.2	255.4	255.2	257.0	260.9	261.8	266.2	270.8	271.4	274.0	277.0
70°	222.5	223.8	225.2	226.5	229.8	231.2	234.5	236.5	239.2	241.3	243.3
72.5°	192.5	192.7	194.1	193.8	196.6	199.5	202.4	204.4	207.0	209.6	211.6
75°	148.0	148.0	149.5	150.1	153.5	156.8	156.1	157.4	160.2	162.8	164.2
77.5°	108.2	106.6	108.2	108.9	109.9	112.7	113.2	115.1	118.2	117.2	118.8
80°	82.4	80.4	82.4	83.1	83.1	86.4	86.4	87.8	89.8	87.8	89.8
82.5°	58.9	57.9	59.4	59.5	60.6	60.7	61.8	62.0	64.0	63.1	64.0
85°	29.5	28.8	29.5	28.8	29.5	30.2	30.2	29.5	29.5	30.8	28.8
87.5°	11.8	11.7	11.7	12.1	12.0	11.9	11.6	11.9	12.2	11.4	11.6
90°	13.3	16.0	18.1	20.3	22.5	24.7	26.1	27.5	28.8	30.2	31.2
92.5°	23.8	24.2	25.3	26.5	27.6	28.7	29.4	30.1	30.8	31.5	32.0
95°	44.0	40.5	42.4	44.3	46.3	48.2	49.6	50.9	52.3	53.6	54.2
97.5°	57.3	46.7	51.1	55.5	60.1	64.5	65.5	66.7	67.8	68.9	69.6
100°	68.3	51.7	56.5	61.1	65.7	70.4	72.6	74.8	77.0	79.2	80.6
102.5°	252.1	228.5	189.5	150.5	111.4	72.4	75.2	78.1	81.0	83.8	85.6
105°	408.5	375.2	300.2	225.2	150.3	75.3	78.4	81.4	84.4	87.5	89.5
107.5°	506.6	465.0	375.2	285.3	195.4	105.5	102.4	99.4	96.2	93.2	92.2
110°	570.3	533.5	454.2	374.9	295.5	216.2	188.7	161.3	133.8	106.3	93.2



TEST NUMBER: P331573-840

CATALOG NUMBER: S122DIW-S865D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	631.0	623.7	604.1	584.5	564.9	545.2	445.1	345.0	244.9	144.7	95.0
115°	729.0	734.8	741.6	748.5	755.4	762.2	635.1	508.0	380.9	253.8	180.4
117.5°	820.4	825.4	830.0	834.8	839.5	844.2	813.4	782.7	751.9	721.2	673.4
120°	881.2	885.8	890.7	895.6	900.6	905.4	908.8	912.1	915.3	918.7	901.8
122.5°	937.5	942.3	947.7	953.0	958.5	963.8	965.7	967.8	969.8	971.7	969.1
125°	1018.5	1023.0	1028.2	1033.4	1038.6	1043.9	1045.8	1047.7	1049.7	1051.6	1052.9
127.5°	1096.5	1100.4	1104.3	1108.2	1112.1	1116.0	1118.8	1121.6	1124.4	1127.2	1128.7
130°	1146.7	1150.3	1153.4	1156.4	1159.4	1162.5	1165.5	1168.5	1171.5	1174.5	1175.9
132.5°	1193.5	1196.8	1199.8	1202.9	1205.9	1208.9	1211.4	1214.1	1216.6	1219.2	1220.3
135°	1260.3	1263.7	1266.2	1268.7	1271.1	1273.6	1276.4	1279.1	1281.8	1284.6	1285.7
137.5°	1320.0	1322.9	1325.8	1328.6	1331.3	1334.1	1336.9	1339.5	1342.2	1344.9	1345.7
140°	1359.0	1361.6	1364.6	1367.7	1370.7	1373.7	1376.1	1378.7	1381.1	1383.6	1384.1
142.5°	1393.7	1396.4	1399.9	1403.3	1406.7	1410.3	1412.5	1414.7	1417.0	1419.3	1419.7
145°	1440.6	1442.7	1447.4	1452.1	1456.7	1461.4	1463.3	1465.2	1467.1	1469.1	1469.4
147.5°	1486.1	1487.9	1492.5	1497.1	1501.8	1506.3	1507.8	1509.2	1510.7	1512.1	1512.2
150°	1514.2	1515.5	1519.8	1524.3	1528.6	1533.1	1534.7	1536.3	1538.0	1539.6	1539.7
152.5°	1540.0	1541.1	1545.2	1549.4	1553.6	1557.7	1559.4	1561.0	1562.7	1564.4	1564.3
155°	1577.5	1577.9	1581.2	1584.5	1587.8	1591.1	1592.8	1594.4	1596.1	1597.7	1597.4
157.5°	1609.4	1609.5	1611.8	1614.2	1616.5	1618.8	1620.6	1622.6	1624.4	1626.3	1626.1
160°	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1637.2	1638.9	1640.5	1642.1	1642.0
162.5°	1644.8	1644.7	1646.1	1647.5	1649.0	1650.4	1652.2	1654.2	1656.0	1657.9	1657.6
165°	1666.1	1665.7	1666.5	1667.3	1668.1	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6
167.5°	1681.8	1681.4	1682.2	1682.9	1683.7	1684.5	1686.4	1688.3	1690.2	1692.1	1691.9
170°	1690.7	1690.2	1690.7	1691.3	1691.8	1692.4	1694.4	1696.3	1698.2	1700.1	1699.8
172.5°	1696.7	1696.2	1696.7	1697.2	1697.8	1698.3	1700.2	1702.1	1704.0	1706.0	1705.8
175°	1703.2	1702.5	1703.1	1703.6	1704.2	1704.8	1706.7	1708.6	1710.5	1712.4	1712.0
177.5°	1706.0	1705.4	1705.6	1705.8	1706.0	1706.3	1707.8	1709.3	1710.8	1712.4	1712.1
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331573-840

CATALOG NUMBER: S122DIW-S865D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1672.2	1671.2	1671.2	1666.4	1671.2	1671.2	1672.2	1677.7	1679.2	1680.3	1678.2
5°	1551.3	1549.2	1545.9	1549.2	1545.9	1549.2	1551.3	1560.6	1565.3	1570.0	1574.1
7.5°	1431.6	1423.5	1422.3	1414.4	1422.3	1423.5	1431.6	1436.0	1445.4	1456.0	1465.6
10°	1344.2	1338.9	1338.2	1325.4	1338.2	1338.9	1344.2	1355.6	1364.9	1377.8	1391.1
12.5°	1277.8	1264.9	1267.4	1260.0	1267.4	1264.9	1277.8	1277.9	1288.9	1296.8	1317.7
15°	1162.7	1162.7	1159.9	1148.5	1159.9	1162.7	1162.7	1180.7	1184.1	1196.8	1214.9
17.5°	1079.9	1078.5	1072.2	1075.4	1072.2	1078.5	1079.9	1093.2	1095.5	1112.5	1127.4
20°	1030.6	1026.6	1018.5	1018.5	1018.5	1026.6	1030.6	1037.9	1046.7	1056.7	1069.4
22.5°	984.0	983.7	975.1	977.8	975.1	983.7	984.0	990.8	999.0	1010.1	1020.7
25°	929.4	924.0	920.1	922.0	920.1	924.0	929.4	930.1	939.5	946.8	953.5
27.5°	877.7	874.7	874.4	869.0	874.4	874.7	877.7	879.4	884.7	889.1	895.3
30°	847.7	841.0	842.3	839.0	842.3	841.0	847.7	848.4	851.0	853.7	861.1
32.5°	813.3	810.9	809.6	806.8	809.6	810.9	813.3	814.6	819.9	822.6	828.4
35°	766.6	767.3	763.9	765.3	763.9	767.3	766.6	767.9	768.6	771.2	776.7
37.5°	725.7	727.8	726.3	726.7	726.3	727.8	725.7	726.4	727.0	727.4	729.0
40°	698.9	698.9	698.9	700.9	698.9	698.9	698.9	696.9	697.6	696.9	696.9
42.5°	673.2	672.1	671.1	670.9	671.1	672.1	673.2	668.5	670.8	668.5	667.4
45°	629.2	631.3	631.9	628.5	631.9	631.3	629.2	627.8	625.9	625.2	624.5
47.5°	589.5	589.7	589.5	592.4	589.5	589.7	589.5	587.6	584.6	583.4	580.2
50°	561.6	560.2	561.6	560.2	561.6	560.2	561.6	558.2	556.1	552.8	550.2
52.5°	532.1	532.3	531.5	531.3	531.5	532.3	532.1	527.7	526.6	525.5	521.2
55°	485.8	487.2	486.5	486.5	486.5	487.2	485.8	483.1	482.5	478.5	474.4
57.5°	438.0	439.2	440.1	437.2	440.1	439.2	438.0	437.6	437.2	432.9	428.6
60°	404.8	408.1	407.4	406.1	407.4	408.1	404.8	405.4	403.4	400.7	398.0
62.5°	374.2	375.4	375.3	375.0	375.3	375.4	374.2	371.1	370.1	367.5	364.8
65°	327.0	328.3	326.3	328.3	326.3	328.3	327.0	325.0	320.3	318.9	316.3
67.5°	276.2	276.6	278.1	279.0	278.1	276.6	276.2	277.0	274.0	271.4	270.8
70°	244.6	243.9	245.9	247.9	245.9	243.9	244.6	243.3	241.3	239.2	236.5
72.5°	211.4	212.8	212.2	213.6	212.2	212.8	211.4	211.6	209.6	207.0	204.4
75°	162.8	164.8	164.2	166.2	164.2	164.8	162.8	164.2	162.8	160.2	157.4
77.5°	117.6	118.0	117.6	118.8	117.6	118.0	117.6	118.8	117.2	118.2	115.1
80°	89.8	88.5	87.2	89.8	87.2	88.5	89.8	89.8	87.8	89.8	87.8
82.5°	62.4	63.2	61.9	61.9	61.9	63.2	62.4	64.0	63.1	64.0	62.0
85°	28.8	28.2	26.8	26.8	26.8	28.2	28.8	28.8	30.8	29.5	29.5
87.5°	11.7	11.3	11.4	11.0	11.4	11.3	11.7	11.6	11.4	12.2	11.9
90°	31.7	32.2	32.8	33.3	32.8	32.2	31.7	31.2	30.2	28.8	27.5
92.5°	32.3	32.7	33.0	33.3	33.0	32.7	32.3	32.0	31.5	30.8	30.1
95°	53.9	53.6	53.4	53.1	53.4	53.6	53.9	54.2	53.6	52.3	50.9
97.5°	69.9	70.3	70.6	70.9	70.6	70.3	69.9	69.6	68.9	67.8	66.7
100°	81.1	81.7	82.2	82.8	82.2	81.7	81.1	80.6	79.2	77.0	74.8
102.5°	86.3	87.2	88.0	88.7	88.0	87.2	86.3	85.6	83.8	81.0	78.1
105°	90.6	91.7	92.8	93.9	92.8	91.7	90.6	89.5	87.5	84.4	81.4
107.5°	93.3	94.4	95.5	96.6	95.5	94.4	93.3	92.2	93.2	96.2	99.4
110°	94.3	95.4	96.5	97.6	96.5	95.4	94.3	93.2	106.3	133.8	161.3



TEST NUMBER: P331573-840

CATALOG NUMBER: S122DIW-S865D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.9	96.8	97.7	98.6	97.7	96.8	95.9	95.0	144.7	244.9	345.0
115°	160.6	140.9	121.1	101.3	121.1	140.9	160.6	180.4	253.8	380.9	508.0
117.5°	608.4	543.5	478.6	413.5	478.6	543.5	608.4	673.4	721.2	751.9	782.7
120°	864.7	827.7	790.6	753.6	790.6	827.7	864.7	901.8	918.7	915.3	912.1
122.5°	961.9	954.7	947.6	940.3	947.6	954.7	961.9	969.1	971.7	969.8	967.8
125°	1053.7	1054.6	1055.4	1056.2	1055.4	1054.6	1053.7	1052.9	1051.6	1049.7	1047.7
127.5°	1128.8	1129.0	1129.1	1129.3	1129.1	1129.0	1128.8	1128.7	1127.2	1124.4	1121.6
130°	1175.6	1175.4	1175.1	1174.8	1175.1	1175.4	1175.6	1175.9	1174.5	1171.5	1168.5
132.5°	1220.1	1219.8	1219.5	1219.3	1219.5	1219.8	1220.1	1220.3	1219.2	1216.6	1214.1
135°	1285.2	1284.6	1284.0	1283.5	1284.0	1284.6	1285.2	1285.7	1284.6	1281.8	1279.1
137.5°	1344.8	1343.9	1343.0	1342.0	1343.0	1343.9	1344.8	1345.7	1344.9	1342.2	1339.5
140°	1382.7	1381.4	1380.0	1378.7	1380.0	1381.4	1382.7	1384.1	1383.6	1381.1	1378.7
142.5°	1418.4	1416.9	1415.5	1414.2	1415.5	1416.9	1418.4	1419.7	1419.3	1417.0	1414.7
145°	1467.9	1466.6	1465.2	1463.9	1465.2	1466.6	1467.9	1469.4	1469.1	1467.1	1465.2
147.5°	1511.1	1509.8	1508.7	1507.6	1508.7	1509.8	1511.1	1512.2	1512.1	1510.7	1509.2
150°	1538.4	1537.0	1535.6	1534.3	1535.6	1537.0	1538.4	1539.7	1539.6	1538.0	1536.3
152.5°	1562.5	1560.6	1558.8	1557.0	1558.8	1560.6	1562.5	1564.3	1564.4	1562.7	1561.0
155°	1595.2	1593.1	1590.8	1588.6	1590.8	1593.1	1595.2	1597.4	1597.7	1596.1	1594.4
157.5°	1624.0	1621.8	1619.7	1617.5	1619.7	1621.8	1624.0	1626.1	1626.3	1624.4	1622.6
160°	1640.1	1638.2	1636.3	1634.4	1636.3	1638.2	1640.1	1642.0	1642.1	1640.5	1638.9
162.5°	1655.3	1652.8	1650.5	1648.2	1650.5	1652.8	1655.3	1657.6	1657.9	1656.0	1654.2
165°	1674.7	1672.7	1670.8	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6	1674.7	1672.7
167.5°	1689.4	1687.0	1684.5	1682.0	1684.5	1687.0	1689.4	1691.9	1692.1	1690.2	1688.3
170°	1697.4	1694.9	1692.4	1689.9	1692.4	1694.9	1697.4	1699.8	1700.1	1698.2	1696.3
172.5°	1703.2	1700.8	1698.3	1695.9	1698.3	1700.8	1703.2	1705.8	1706.0	1704.0	1702.1
175°	1709.3	1706.6	1703.7	1701.0	1703.7	1706.6	1709.3	1712.0	1712.4	1710.5	1708.6
177.5°	1710.2	1708.2	1706.3	1704.2	1706.3	1708.2	1710.2	1712.1	1712.4	1710.8	1709.3
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1675.5	1681.4	1690.5	1700.2	1706.1	1717.3	1720.5	1725.9	1730.7	1742.0	1753.7
5°	1578.7	1588.1	1610.2	1622.2	1639.0	1658.5	1671.2	1684.7	1699.4	1724.8	1748.3
7.5°	1475.0	1490.7	1518.1	1540.7	1564.5	1592.5	1612.6	1639.0	1661.0	1697.0	1731.2
10°	1405.8	1427.9	1452.8	1479.6	1513.1	1542.6	1570.7	1604.2	1631.0	1673.9	1714.1
12.5°	1343.6	1347.1	1382.5	1412.0	1457.8	1494.3	1526.7	1569.9	1596.2	1647.1	1689.4
15°	1235.0	1255.1	1287.3	1310.7	1364.9	1411.2	1456.8	1501.7	1531.9	1594.8	1650.4
17.5°	1143.5	1162.0	1194.9	1233.3	1272.3	1318.4	1377.4	1424.6	1465.6	1537.6	1603.4
20°	1085.5	1108.3	1141.9	1181.3	1215.6	1265.8	1316.8	1371.0	1415.2	1496.3	1573.4
22.5°	1036.2	1054.2	1081.3	1120.2	1157.6	1203.7	1259.4	1318.5	1364.8	1452.4	1530.5
25°	966.9	981.7	999.1	1031.3	1073.5	1123.8	1167.3	1232.3	1300.0	1381.7	1476.2
27.5°	904.5	914.9	930.4	958.7	991.4	1038.3	1086.7	1148.4	1216.5	1305.3	1404.9
30°	866.5	873.1	888.6	912.0	944.1	981.0	1030.0	1088.9	1158.6	1248.4	1347.6
32.5°	833.2	839.4	849.4	871.8	899.7	931.2	975.2	1034.2	1100.7	1188.9	1298.8
35°	783.4	788.0	796.8	814.9	830.2	861.1	898.0	951.5	1013.8	1098.3	1212.2
37.5°	733.7	740.0	745.4	753.1	772.8	793.1	825.2	870.4	931.6	1016.8	1125.4
40°	700.9	706.3	714.3	717.7	733.8	751.8	778.0	819.5	881.2	958.9	1064.8
42.5°	667.7	673.1	677.8	681.8	695.7	711.7	735.1	770.7	825.5	901.0	1005.8
45°	622.5	623.2	627.8	635.2	642.0	653.4	670.0	700.9	743.2	814.2	909.3
47.5°	576.6	577.4	578.2	581.5	588.9	599.2	610.4	635.4	673.2	729.8	822.4
50°	546.1	544.8	546.1	548.8	553.5	562.2	574.9	593.0	623.9	676.8	761.9
52.5°	516.6	516.3	515.5	516.6	520.3	526.2	535.2	550.7	578.2	626.9	701.9
55°	471.7	468.4	469.1	466.4	472.4	473.7	480.5	493.2	517.4	550.8	621.2
57.5°	423.9	421.1	418.2	417.4	416.8	420.4	425.8	435.9	454.3	483.6	540.8
60°	393.3	390.0	386.0	384.7	384.7	386.7	389.3	396.7	414.1	440.3	487.2
62.5°	362.2	358.4	356.0	352.4	351.4	353.5	356.1	361.3	374.0	398.4	438.9
65°	314.3	309.6	306.2	305.6	304.3	302.3	303.6	308.9	318.9	338.4	370.5
67.5°	266.2	261.8	260.9	257.0	255.2	255.4	255.2	259.7	265.8	282.6	306.5
70°	234.5	231.2	229.8	226.5	225.2	223.8	222.5	226.5	232.6	246.6	267.4
72.5°	202.4	199.5	196.6	193.8	194.1	192.7	192.5	194.9	199.9	212.8	228.7
75°	156.1	156.8	153.5	150.1	149.5	148.0	148.0	150.1	152.1	162.2	174.9
77.5°	113.2	112.7	109.9	108.9	108.2	106.6	108.2	109.5	110.6	117.2	126.6
80°	86.4	86.4	83.1	83.1	82.4	80.4	82.4	81.1	83.7	90.5	97.1
82.5°	61.8	60.7	60.6	59.5	59.4	57.9	58.9	60.2	61.2	65.8	69.8
85°	30.2	30.2	29.5	28.8	29.5	28.8	29.5	30.2	30.8	32.8	36.2
87.5°	11.6	11.9	12.0	12.1	11.7	11.7	11.8	11.7	12.2	12.1	12.0
90°	26.1	24.7	22.5	20.3	18.1	16.0	13.3	10.3	7.3	4.2	1.2
92.5°	29.4	28.7	27.6	26.5	25.3	24.2	23.8	24.1	24.4	24.6	24.9
95°	49.6	48.2	46.3	44.3	42.4	40.5	44.0	53.1	62.2	71.2	80.3
97.5°	65.5	64.5	60.1	55.5	51.1	46.7	57.3	82.8	108.3	133.8	159.4
100°	72.6	70.4	65.7	61.1	56.5	51.7	68.3	105.8	143.4	181.1	218.6
102.5°	75.2	72.4	111.4	150.5	189.5	228.5	252.1	260.0	267.9	275.9	283.9
105°	78.4	75.3	150.3	225.2	300.2	375.2	408.5	400.2	392.0	383.7	375.6
107.5°	102.4	105.5	195.4	285.3	375.2	465.0	506.6	500.0	493.3	486.7	480.1
110°	188.7	216.2	295.5	374.9	454.2	533.5	570.3	564.5	558.8	553.0	547.2



TEST NUMBER: P331573-840

CATALOG NUMBER: S122DIW-S865D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	445.1	545.2	564.9	584.5	604.1	623.7	631.0	625.8	620.7	615.6	610.5
115°	635.1	762.2	755.4	748.5	741.6	734.8	729.0	724.3	719.6	715.0	710.3
117.5°	813.4	844.2	839.5	834.8	830.0	825.4	820.4	815.2	809.9	804.8	799.5
120°	908.8	905.4	900.6	895.6	890.7	885.8	881.2	877.1	872.9	868.9	864.7
122.5°	965.7	963.8	958.5	953.0	947.7	942.3	937.5	933.1	928.8	924.4	920.1
125°	1045.8	1043.9	1038.6	1033.4	1028.2	1023.0	1018.5	1015.0	1011.5	1007.8	1004.3
127.5°	1118.8	1116.0	1112.1	1108.2	1104.3	1100.4	1096.5	1092.6	1088.5	1084.6	1080.7
130°	1165.5	1162.5	1159.4	1156.4	1153.4	1150.3	1146.7	1142.3	1137.9	1133.5	1129.1
132.5°	1211.4	1208.9	1205.9	1202.9	1199.8	1196.8	1193.5	1189.7	1186.0	1182.2	1178.5
135°	1276.4	1273.6	1271.1	1268.7	1266.2	1263.7	1260.3	1255.9	1251.5	1247.1	1242.7
137.5°	1336.9	1334.1	1331.3	1328.6	1325.8	1322.9	1320.0	1317.0	1313.8	1310.8	1307.7
140°	1376.1	1373.7	1370.7	1367.7	1364.6	1361.6	1359.0	1356.8	1354.6	1352.4	1350.2
142.5°	1412.5	1410.3	1406.7	1403.3	1399.9	1396.4	1393.7	1391.7	1389.8	1387.8	1385.8
145°	1463.3	1461.4	1456.7	1452.1	1447.4	1442.7	1440.6	1440.8	1441.1	1441.4	1441.6
147.5°	1507.8	1506.3	1501.8	1497.1	1492.5	1487.9	1486.1	1487.1	1488.2	1489.2	1490.3
150°	1534.7	1533.1	1528.6	1524.3	1519.8	1515.5	1514.2	1516.1	1518.1	1520.0	1522.0
152.5°	1559.4	1557.7	1553.6	1549.4	1545.2	1541.1	1540.0	1542.2	1544.3	1546.5	1548.6
155°	1592.8	1591.1	1587.8	1584.5	1581.2	1577.9	1577.5	1579.9	1582.5	1584.9	1587.4
157.5°	1620.6	1618.8	1616.5	1614.2	1611.8	1609.5	1609.4	1611.5	1613.6	1615.7	1617.8
160°	1637.2	1635.6	1634.0	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6
162.5°	1652.2	1650.4	1649.0	1647.5	1646.1	1644.7	1644.8	1646.5	1648.1	1649.7	1651.4
165°	1670.8	1668.9	1668.1	1667.3	1666.5	1665.7	1666.1	1667.7	1669.3	1671.0	1672.6
167.5°	1686.4	1684.5	1683.7	1682.9	1682.2	1681.4	1681.8	1683.5	1685.2	1686.8	1688.5
170°	1694.4	1692.4	1691.8	1691.3	1690.7	1690.2	1690.7	1692.4	1694.0	1695.7	1697.4
172.5°	1700.2	1698.3	1697.8	1697.2	1696.7	1696.2	1696.7	1698.3	1700.0	1701.6	1703.2
175°	1706.7	1704.8	1704.2	1703.6	1703.1	1702.5	1703.2	1705.2	1707.1	1709.0	1710.9
177.5°	1707.8	1706.3	1706.0	1705.8	1705.6	1705.4	1706.0	1707.6	1709.1	1710.6	1712.1
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331573-840

CATALOG NUMBER: S122DIW-S865D1240U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1752.7	1755.3	1763.9	1772.5	1782.2	1784.8	1789.2	1785.4	1784.3	1794.5	1802.0
5°	1757.7	1769.7	1793.2	1814.6	1832.7	1845.4	1858.9	1864.2	1874.2	1888.3	1905.7
7.5°	1752.0	1775.4	1812.3	1843.6	1877.6	1902.1	1921.3	1937.6	1957.5	1984.2	2013.3
10°	1745.6	1777.1	1822.0	1860.2	1901.7	1933.2	1959.3	1984.8	2014.3	2051.1	2089.3
12.5°	1733.8	1771.2	1827.4	1872.5	1925.8	1956.8	1992.1	2047.0	2078.6	2130.0	2183.7
15°	1710.1	1751.6	1830.0	1885.6	1945.9	2004.9	2069.9	2122.2	2174.4	2204.6	2280.4
17.5°	1674.9	1735.9	1822.6	1887.5	1964.2	2057.1	2130.1	2189.3	2249.7	2298.6	2336.5
20°	1646.4	1712.7	1811.9	1889.7	1980.7	2080.6	2164.4	2224.7	2276.9	2317.8	2341.3
22.5°	1610.5	1693.9	1790.5	1881.6	1997.9	2096.7	2184.7	2232.2	2275.9	2295.8	2304.8
25°	1554.0	1654.5	1763.7	1874.9	2006.3	2110.8	2191.2	2220.0	2232.7	2213.3	2181.1
27.5°	1493.0	1605.0	1732.7	1862.3	2001.1	2101.6	2159.3	2154.7	2133.1	2070.3	2020.0
30°	1447.4	1570.7	1708.1	1849.5	1988.8	2086.7	2120.2	2086.7	2037.7	1967.4	1895.7
32.5°	1399.7	1527.3	1681.8	1831.2	1966.3	2052.3	2059.6	2002.0	1926.2	1846.2	1756.9
35°	1327.5	1465.5	1632.3	1790.5	1918.4	1972.8	1940.6	1838.8	1749.0	1639.7	1517.7
37.5°	1245.9	1398.3	1565.6	1730.8	1846.7	1861.0	1781.1	1673.9	1547.2	1418.9	1275.4
40°	1184.8	1346.3	1518.4	1685.3	1787.8	1773.0	1671.2	1553.3	1402.5	1245.7	1112.4
42.5°	1130.0	1291.5	1466.9	1630.6	1712.7	1672.2	1553.3	1408.6	1246.5	1098.8	976.7
45°	1035.3	1201.4	1381.1	1539.2	1586.1	1513.1	1355.6	1194.8	1035.3	912.0	815.5
47.5°	943.3	1107.6	1285.5	1424.5	1441.1	1342.8	1170.7	1005.3	868.2	767.8	699.7
50°	875.9	1040.7	1216.9	1340.9	1335.4	1216.9	1040.0	882.5	767.9	686.8	641.3
52.5°	815.3	971.0	1140.2	1252.9	1224.6	1095.2	926.3	786.6	692.4	628.9	587.6
55°	721.0	865.1	1025.9	1116.4	1064.1	920.7	778.0	665.4	595.7	548.2	515.9
57.5°	627.4	762.5	900.2	955.9	898.2	765.8	646.8	565.1	512.7	477.5	456.6
60°	569.6	687.5	810.1	858.4	789.4	671.5	577.6	504.6	462.3	433.5	414.8
62.5°	511.7	617.3	733.0	759.2	696.1	596.4	513.3	452.6	417.9	392.2	374.6
65°	432.9	519.3	607.1	624.5	566.2	489.2	423.5	384.0	353.1	334.4	320.3
67.5°	355.0	424.4	486.7	500.7	449.6	396.2	348.7	314.3	293.4	277.8	265.9
70°	308.9	363.9	414.8	426.2	385.3	337.7	301.5	274.1	255.3	241.9	230.6
72.5°	260.1	306.0	348.3	356.0	322.6	286.3	256.5	234.9	218.3	209.7	198.8
75°	199.0	225.8	258.6	260.6	238.5	216.4	193.7	179.6	170.9	160.2	154.8
77.5°	140.5	161.5	180.3	183.9	170.8	155.7	143.0	131.9	124.5	119.6	114.6
80°	107.2	124.0	132.0	136.7	127.3	116.6	109.3	101.9	97.1	93.8	90.5
82.5°	76.6	86.9	94.5	98.1	93.0	86.5	79.2	75.0	71.4	68.6	67.5
85°	38.9	43.5	48.3	49.6	48.3	45.5	41.5	41.5	39.5	38.9	38.9
87.5°	14.2	17.0	17.6	19.8	19.3	19.7	20.1	20.1	20.0	19.7	19.4
90°	4.2	7.3	10.3	13.3	16.0	18.1	20.3	22.5	24.7	26.1	27.5
92.5°	24.6	24.4	24.1	23.8	24.2	25.3	26.5	27.6	28.7	29.4	30.1
95°	71.2	62.2	53.1	44.0	40.5	42.4	44.3	46.3	48.2	49.6	50.9
97.5°	133.8	108.3	82.8	57.3	46.7	51.1	55.5	60.1	64.5	65.5	66.7
100°	181.1	143.4	105.8	68.3	51.7	56.5	61.1	65.7	70.4	72.6	74.8
102.5°	275.9	267.9	260.0	252.1	228.5	189.5	150.5	111.4	72.4	75.2	78.1
105°	383.7	392.0	400.2	408.5	375.2	300.2	225.2	150.3	75.3	78.4	81.4
107.5°	486.7	493.3	500.0	506.6	465.0	375.2	285.3	195.4	105.5	102.4	99.4
110°	553.0	558.8	564.5	570.3	533.5	454.2	374.9	295.5	216.2	188.7	161.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	615.6	620.7	625.8	631.0	623.7	604.1	584.5	564.9	545.2	445.1	345.0
115°	715.0	719.6	724.3	729.0	734.8	741.6	748.5	755.4	762.2	635.1	508.0
117.5°	804.8	809.9	815.2	820.4	825.4	830.0	834.8	839.5	844.2	813.4	782.7
120°	868.9	872.9	877.1	881.2	885.8	890.7	895.6	900.6	905.4	908.8	912.1
122.5°	924.4	928.8	933.1	937.5	942.3	947.7	953.0	958.5	963.8	965.7	967.8
125°	1007.8	1011.5	1015.0	1018.5	1023.0	1028.2	1033.4	1038.6	1043.9	1045.8	1047.7
127.5°	1084.6	1088.5	1092.6	1096.5	1100.4	1104.3	1108.2	1112.1	1116.0	1118.8	1121.6
130°	1133.5	1137.9	1142.3	1146.7	1150.3	1153.4	1156.4	1159.4	1162.5	1165.5	1168.5
132.5°	1182.2	1186.0	1189.7	1193.5	1196.8	1199.8	1202.9	1205.9	1208.9	1211.4	1214.1
135°	1247.1	1251.5	1255.9	1260.3	1263.7	1266.2	1268.7	1271.1	1273.6	1276.4	1279.1
137.5°	1310.8	1313.8	1317.0	1320.0	1322.9	1325.8	1328.6	1331.3	1334.1	1336.9	1339.5
140°	1352.4	1354.6	1356.8	1359.0	1361.6	1364.6	1367.7	1370.7	1373.7	1376.1	1378.7
142.5°	1387.8	1389.8	1391.7	1393.7	1396.4	1399.9	1403.3	1406.7	1410.3	1412.5	1414.7
145°	1441.4	1441.1	1440.8	1440.6	1442.7	1447.4	1452.1	1456.7	1461.4	1463.3	1465.2
147.5°	1489.2	1488.2	1487.1	1486.1	1487.9	1492.5	1497.1	1501.8	1506.3	1507.8	1509.2
150°	1520.0	1518.1	1516.1	1514.2	1515.5	1519.8	1524.3	1528.6	1533.1	1534.7	1536.3
152.5°	1546.5	1544.3	1542.2	1540.0	1541.1	1545.2	1549.4	1553.6	1557.7	1559.4	1561.0
155°	1584.9	1582.5	1579.9	1577.5	1577.9	1581.2	1584.5	1587.8	1591.1	1592.8	1594.4
157.5°	1615.7	1613.6	1611.5	1609.4	1609.5	1611.8	1614.2	1616.5	1618.8	1620.6	1622.6
160°	1634.0	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1637.2	1638.9
162.5°	1649.7	1648.1	1646.5	1644.8	1644.7	1646.1	1647.5	1649.0	1650.4	1652.2	1654.2
165°	1671.0	1669.3	1667.7	1666.1	1665.7	1666.5	1667.3	1668.1	1668.9	1670.8	1672.7
167.5°	1686.8	1685.2	1683.5	1681.8	1681.4	1682.2	1682.9	1683.7	1684.5	1686.4	1688.3
170°	1695.7	1694.0	1692.4	1690.7	1690.2	1690.7	1691.3	1691.8	1692.4	1694.4	1696.3
172.5°	1701.6	1700.0	1698.3	1696.7	1696.2	1696.7	1697.2	1697.8	1698.3	1700.2	1702.1
175°	1709.0	1707.1	1705.2	1703.2	1702.5	1703.1	1703.6	1704.2	1704.8	1706.7	1708.6
177.5°	1710.6	1709.1	1707.6	1706.0	1705.4	1705.6	1705.8	1706.0	1706.3	1707.8	1709.3
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1808.5	1815.9	1815.9	1817.1	1825.6	1824.5	1824.0
5°	1924.5	1935.9	1937.2	1949.3	1957.3	1954.7	1947.3
7.5°	2034.0	2055.2	2071.2	2080.2	2090.8	2097.4	2094.5
10°	2120.8	2151.6	2170.4	2183.1	2198.6	2210.0	2205.9
12.5°	2199.7	2236.3	2262.1	2283.9	2285.9	2300.6	2290.7
15°	2322.6	2361.4	2365.4	2381.5	2394.3	2392.9	2393.6
17.5°	2363.2	2375.6	2378.1	2378.5	2378.7	2374.0	2363.8
20°	2348.6	2344.0	2332.6	2323.9	2308.5	2306.4	2293.1
22.5°	2280.1	2265.2	2236.6	2217.8	2193.7	2187.5	2183.7
25°	2145.0	2112.1	2066.6	2023.0	2010.9	1987.5	1994.2
27.5°	1959.6	1908.4	1859.1	1823.7	1791.7	1756.6	1766.7
30°	1829.4	1771.7	1702.0	1648.4	1614.3	1580.7	1574.7
32.5°	1673.9	1589.4	1511.8	1464.5	1412.2	1391.0	1367.8
35°	1405.8	1323.4	1246.4	1180.0	1141.9	1112.4	1085.5
37.5°	1164.8	1069.9	1007.6	953.9	926.3	909.5	913.7
40°	1015.2	932.1	886.6	845.7	820.2	808.1	810.8
42.5°	894.0	831.8	794.4	766.3	748.3	741.6	740.0
45°	756.5	721.6	690.8	674.8	666.1	658.7	654.0
47.5°	662.7	634.3	616.9	607.3	599.8	592.2	592.1
50°	606.4	587.6	575.6	565.5	559.6	554.2	558.9
52.5°	563.5	546.4	534.3	525.3	523.1	518.3	518.2
55°	499.9	486.5	477.8	469.7	465.7	463.0	459.7
57.5°	442.0	429.3	421.2	416.2	408.5	405.8	404.8
60°	400.7	390.6	382.6	375.9	372.5	367.2	367.2
62.5°	362.6	352.6	345.1	340.0	334.5	332.3	333.0
65°	307.6	299.5	292.2	286.8	285.5	281.4	282.8
67.5°	256.9	251.6	243.8	240.9	238.3	236.1	234.5
70°	223.2	217.8	213.8	209.7	207.7	207.7	207.7
72.5°	194.7	188.3	185.9	180.8	182.0	179.9	177.7
75°	150.8	146.7	144.7	142.7	139.4	139.4	139.4
77.5°	111.0	109.8	107.3	105.2	104.4	103.7	104.0
80°	85.7	85.1	83.7	83.7	82.4	81.8	80.4
82.5°	65.9	64.2	63.4	62.8	62.6	62.4	62.2
85°	37.6	36.2	36.2	36.9	35.5	35.5	36.2
87.5°	20.2	20.5	20.2	20.3	20.9	20.5	20.6
90°	28.8	30.2	31.2	31.7	32.2	32.8	33.3
92.5°	30.8	31.5	32.0	32.3	32.7	33.0	33.3
95°	52.3	53.6	54.2	53.9	53.6	53.4	53.1
97.5°	67.8	68.9	69.6	69.9	70.3	70.6	70.9
100°	77.0	79.2	80.6	81.1	81.7	82.2	82.8
102.5°	81.0	83.8	85.6	86.3	87.2	88.0	88.7
105°	84.4	87.5	89.5	90.6	91.7	92.8	93.9
107.5°	96.2	93.2	92.2	93.3	94.4	95.5	96.6
110°	133.8	106.3	93.2	94.3	95.4	96.5	97.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	244.9	144.7	95.0	95.9	96.8	97.7	98.6
115°	380.9	253.8	180.4	160.6	140.9	121.1	101.3
117.5°	751.9	721.2	673.4	608.4	543.5	478.6	413.5
120°	915.3	918.7	901.8	864.7	827.7	790.6	753.6
122.5°	969.8	971.7	969.1	961.9	954.7	947.6	940.3
125°	1049.7	1051.6	1052.9	1053.7	1054.6	1055.4	1056.2
127.5°	1124.4	1127.2	1128.7	1128.8	1129.0	1129.1	1129.3
130°	1171.5	1174.5	1175.9	1175.6	1175.4	1175.1	1174.8
132.5°	1216.6	1219.2	1220.3	1220.1	1219.8	1219.5	1219.3
135°	1281.8	1284.6	1285.7	1285.2	1284.6	1284.0	1283.5
137.5°	1342.2	1344.9	1345.7	1344.8	1343.9	1343.0	1342.0
140°	1381.1	1383.6	1384.1	1382.7	1381.4	1380.0	1378.7
142.5°	1417.0	1419.3	1419.7	1418.4	1416.9	1415.5	1414.2
145°	1467.1	1469.1	1469.4	1467.9	1466.6	1465.2	1463.9
147.5°	1510.7	1512.1	1512.2	1511.1	1509.8	1508.7	1507.6
150°	1538.0	1539.6	1539.7	1538.4	1537.0	1535.6	1534.3
152.5°	1562.7	1564.4	1564.3	1562.5	1560.6	1558.8	1557.0
155°	1596.1	1597.7	1597.4	1595.2	1593.1	1590.8	1588.6
157.5°	1624.4	1626.3	1626.1	1624.0	1621.8	1619.7	1617.5
160°	1640.5	1642.1	1642.0	1640.1	1638.2	1636.3	1634.4
162.5°	1656.0	1657.9	1657.6	1655.3	1652.8	1650.5	1648.2
165°	1674.7	1676.6	1676.6	1674.7	1672.7	1670.8	1668.9
167.5°	1690.2	1692.1	1691.9	1689.4	1687.0	1684.5	1682.0
170°	1698.2	1700.1	1699.8	1697.4	1694.9	1692.4	1689.9
172.5°	1704.0	1706.0	1705.8	1703.2	1700.8	1698.3	1695.9
175°	1710.5	1712.4	1712.0	1709.3	1706.6	1703.7	1701.0
177.5°	1710.8	1712.4	1712.1	1710.2	1708.2	1706.3	1704.2
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2

(END OF REPORT)