

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: P331573-830

Luminaire Tested: **S122DIW-S865D1240U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331573-830
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-S865D1240U830-4F0-1E-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: 8263.7 lumens
Efficiency: N/A
Efficacy: 118.4 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

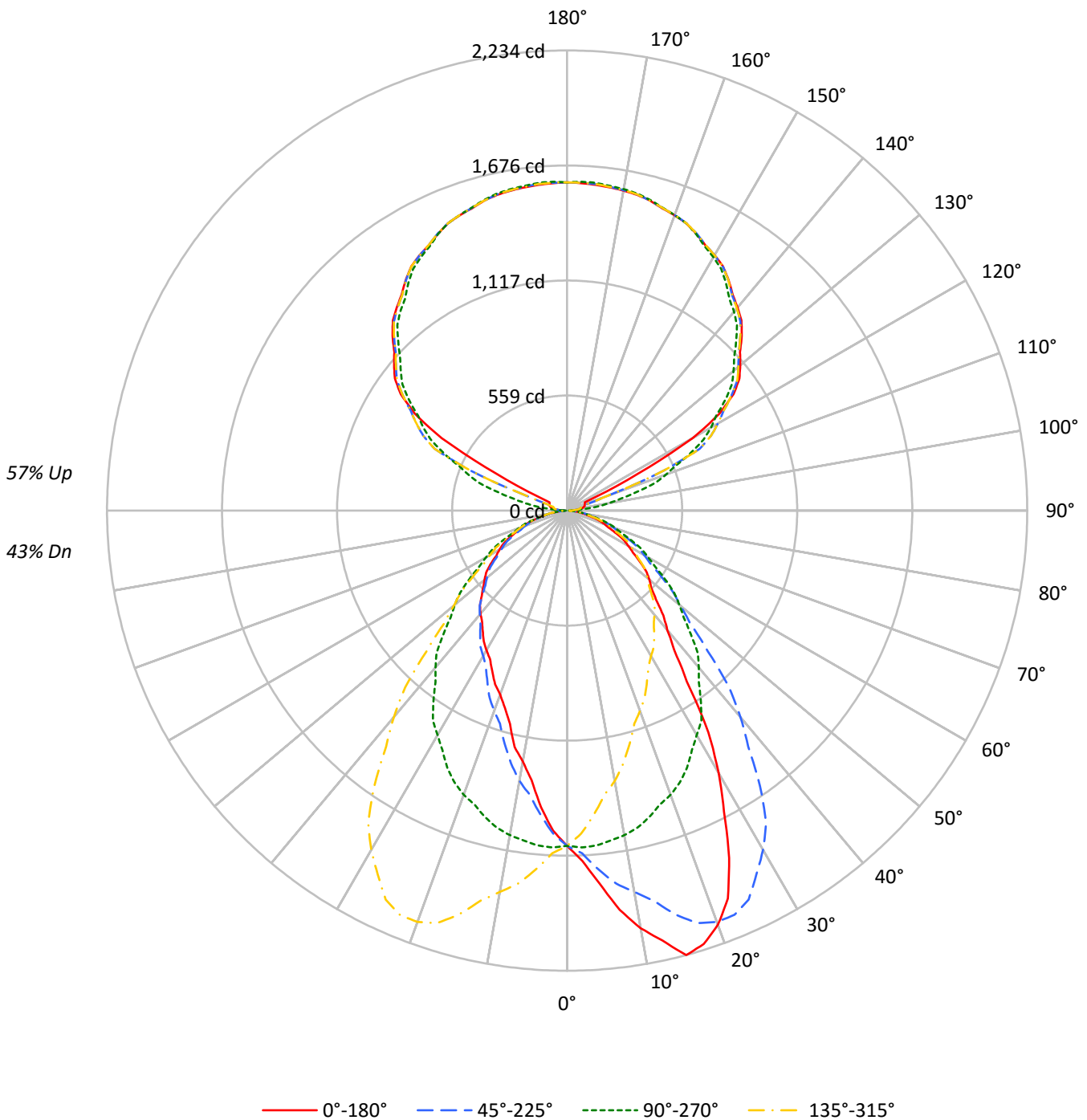
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	26274	26274	26274	26274
5°	29457	26446	23436	26446
10°	33755	26230	20282	26230
15°	37342	25748	17919	25748
20°	36773	25232	16333	25232
25°	33157	24545	15330	24545
30°	27401	23448	14600	23448
35°	19969	22300	14079	22300
40°	15951	20946	13789	20946
45°	13938	19379	13394	19379
50°	13102	17862	13132	17862
55°	12076	16321	12780	16321
60°	11066	14683	12239	14683
65°	10082	13211	11706	13211
70°	9153	11783	10924	11783
75°	8116	10181	9676	10181
80°	6974	8433	7792	8433
85°	6243	6243	4631	6243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	1.9
10°-20°	450.6	5.5
20°-30°	653.9	7.9
30°-40°	690.0	8.4
40°-50°	611.0	7.4
50°-60°	487.6	5.9
60°-70°	331.4	4.0
70°-80°	169.9	2.1
80°-90°	44.9	0.5
90°-100°	53.1	0.6
100°-110°	194.9	2.4
110°-120°	521.0	6.3
120°-130°	860.1	10.4
130°-140°	914.7	11.1
140°-150°	850.1	10.3
150°-160°	683.5	8.3
160°-170°	440.5	5.3
170°-180°	151.6	1.8
0°-30°	1259.4	15.2
0°-40°	1949.5	23.6
0°-60°	3048.0	36.9
0°-90°	3594.2	43.5
90°-120°	769.1	9.3
90°-150°	3394.0	41.1
90°-180°	4670.0	56.5
0°-180°	8263.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1627	1627	1627	1627	1627	
5°	1818	1632	1446	1632	1818	181
15°	2234	1540	1072	1540	2234	616
25°	1861	1378	860	1378	1861	841
35°	1013	1131	714	1131	1013	659
45°	610	849	587	849	610	480
55°	429	580	454	580	429	385
65°	264	346	306	346	264	262
75°	130	163	155	163	130	139
85°	34	34	25	34	34	38
90°	31	1	31	1	31	15
95°	50	75	50	75	50	46
105°	88	350	88	350	88	91
115°	94	663	94	663	94	237
125°	986	937	986	937	986	853
135°	1198	1160	1198	1160	1198	923
145°	1366	1346	1366	1346	1366	854
155°	1483	1482	1483	1482	1483	684
165°	1558	1561	1558	1561	1558	440
175°	1588	1597	1588	1597	1588	151
180°	1593	1593	1593	1593	1593	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1702.4	1702.9	1703.9	1695.9	1694.9	1694.9	1687.9	1681.9	1674.9	1665.4	1666.4
5°	1817.5	1824.4	1826.8	1819.4	1808.1	1806.9	1796.2	1778.7	1762.5	1749.3	1739.9
7.5°	1954.8	1957.6	1951.4	1941.5	1933.2	1918.2	1898.4	1879.1	1851.9	1827.0	1808.5
10°	2058.9	2062.7	2052.0	2037.6	2025.7	2008.2	1979.4	1950.0	1914.4	1880.0	1852.5
12.5°	2138.0	2147.2	2133.5	2131.7	2111.3	2087.3	2053.0	2038.2	1988.0	1940.0	1910.5
15°	2234.0	2233.4	2234.7	2222.7	2207.7	2203.9	2167.8	2128.4	2057.7	2029.5	1980.8
17.5°	2206.2	2215.7	2220.2	2220.0	2219.6	2217.2	2205.6	2180.8	2145.3	2099.7	2043.3
20°	2140.2	2152.7	2154.6	2169.0	2177.1	2187.7	2192.1	2185.2	2163.3	2125.2	2076.4
22.5°	2038.2	2041.6	2047.5	2069.9	2087.5	2114.2	2128.1	2151.2	2142.8	2124.2	2083.4
25°	1861.2	1855.0	1876.9	1888.1	1928.8	1971.3	2002.0	2035.7	2065.8	2083.9	2072.0
27.5°	1648.9	1639.5	1672.3	1702.1	1735.1	1781.2	1829.0	1885.4	1932.3	1990.9	2011.1
30°	1469.7	1475.4	1506.7	1538.5	1588.6	1653.6	1707.4	1769.3	1836.3	1901.9	1947.6
32.5°	1276.6	1298.3	1318.1	1366.9	1411.0	1483.5	1562.3	1639.7	1723.2	1797.8	1868.5
35°	1013.1	1038.2	1065.7	1101.4	1163.3	1235.2	1312.1	1416.5	1530.4	1632.4	1716.2
37.5°	852.8	848.9	864.6	890.3	940.5	998.5	1087.1	1190.3	1324.3	1444.1	1562.3
40°	756.8	754.2	765.5	789.3	827.5	870.0	947.5	1038.2	1162.6	1309.0	1449.7
42.5°	690.7	692.2	698.4	715.2	741.4	776.4	834.4	911.6	1025.6	1163.4	1314.7
45°	610.4	614.8	621.7	629.8	644.8	673.5	706.1	761.1	851.2	966.3	1115.1
47.5°	552.6	552.7	559.8	566.8	575.8	592.0	618.5	653.1	716.6	810.3	938.3
50°	521.6	517.3	522.3	527.8	537.2	548.5	566.0	598.5	641.0	716.7	823.7
52.5°	483.6	483.7	488.2	490.3	498.7	510.0	525.9	548.5	587.0	646.2	734.1
55°	429.0	432.2	434.7	438.4	445.9	454.0	466.6	481.5	511.6	556.0	621.0
57.5°	377.8	378.7	381.3	388.4	393.1	400.7	412.6	426.1	445.6	478.5	527.4
60°	342.7	342.7	347.7	350.8	357.1	364.6	374.0	387.1	404.6	431.5	471.0
62.5°	310.8	310.2	312.2	317.4	322.1	329.1	338.5	349.6	366.1	390.0	422.4
65°	263.9	262.7	266.5	267.7	272.7	279.6	287.1	299.0	312.1	329.6	358.4
67.5°	218.9	220.4	222.4	224.8	227.5	234.8	239.8	248.2	259.3	273.8	293.3
70°	193.9	193.9	193.9	195.8	199.5	203.3	208.3	215.2	225.7	238.3	255.8
72.5°	165.9	167.9	169.8	168.7	173.5	175.8	181.7	185.6	195.8	203.8	219.2
75°	130.1	130.1	130.1	133.2	135.1	137.0	140.7	144.5	149.5	159.5	167.6
77.5°	97.1	96.8	97.5	98.2	100.2	102.5	103.6	107.0	111.6	116.2	123.1
80°	75.0	76.3	76.9	78.1	78.1	79.5	80.0	84.5	87.6	90.7	95.1
82.5°	58.1	58.2	58.4	58.6	59.2	59.9	61.5	63.0	64.0	66.6	70.0
85°	33.7	33.2	33.2	34.4	33.7	33.7	35.1	36.3	36.3	36.9	38.7
87.5°	19.2	19.1	19.5	18.9	18.9	19.1	18.9	18.1	18.4	18.7	18.8
90°	31.1	30.6	30.1	29.6	29.1	28.2	26.9	25.6	24.3	23.1	21.0
92.5°	31.1	30.8	30.5	30.2	29.9	29.4	28.7	28.1	27.4	26.8	25.7
95°	49.6	49.9	50.0	50.3	50.6	50.0	48.8	47.5	46.3	45.0	43.2
97.5°	66.2	65.9	65.6	65.2	64.9	64.3	63.2	62.2	61.2	60.2	56.1
100°	77.3	76.7	76.3	75.7	75.2	73.9	71.8	69.8	67.8	65.7	61.4
102.5°	82.8	82.1	81.3	80.6	79.9	78.2	75.6	72.9	70.2	67.6	104.0
105°	87.7	86.6	85.6	84.5	83.5	81.6	78.8	76.0	73.1	70.3	140.3
107.5°	90.2	89.2	88.1	87.1	86.1	87.0	89.8	92.7	95.6	98.5	182.4
110°	91.0	90.1	89.1	88.0	87.0	99.2	124.9	150.5	176.2	201.8	275.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	92.0	91.1	90.4	89.5	88.7	135.1	228.6	322.0	415.5	508.9	527.3
115°	94.5	113.0	131.5	149.9	168.3	236.9	355.5	474.1	592.8	711.4	705.0
117.5°	386.0	446.7	507.3	567.9	628.5	673.2	701.8	730.6	759.2	788.0	783.5
120°	703.3	737.9	772.5	807.1	841.7	857.4	854.3	851.3	848.2	845.1	840.6
122.5°	877.6	884.4	891.1	897.8	904.5	906.9	905.1	903.2	901.4	899.6	894.6
125°	985.8	985.1	984.3	983.4	982.7	981.5	979.7	977.9	976.1	974.3	969.4
127.5°	1054.0	1053.9	1053.8	1053.6	1053.5	1052.1	1049.4	1046.8	1044.2	1041.6	1037.9
130°	1096.5	1096.7	1097.0	1097.2	1097.5	1096.2	1093.4	1090.6	1087.8	1085.0	1082.1
132.5°	1138.0	1138.2	1138.5	1138.8	1139.0	1137.9	1135.5	1133.1	1130.7	1128.3	1125.5
135°	1198.0	1198.4	1199.0	1199.5	1200.0	1199.0	1196.4	1193.8	1191.3	1188.7	1186.4
137.5°	1252.5	1253.5	1254.3	1255.2	1256.0	1255.3	1252.7	1250.2	1247.7	1245.2	1242.6
140°	1286.8	1288.0	1289.3	1290.5	1291.8	1291.4	1289.0	1286.8	1284.4	1282.1	1279.3
142.5°	1319.9	1321.2	1322.5	1323.8	1325.0	1324.6	1322.6	1320.4	1318.3	1316.3	1313.0
145°	1366.3	1367.5	1368.9	1370.1	1371.4	1371.1	1369.3	1367.5	1365.7	1364.0	1359.6
147.5°	1407.1	1408.2	1409.2	1410.3	1411.4	1411.3	1409.9	1408.6	1407.3	1405.9	1401.7
150°	1432.0	1433.2	1434.5	1435.9	1437.1	1437.0	1435.5	1433.9	1432.4	1430.9	1426.7
152.5°	1453.2	1454.9	1456.6	1458.3	1460.0	1460.1	1458.5	1457.0	1455.5	1453.9	1450.0
155°	1482.7	1484.8	1486.9	1488.8	1490.9	1491.2	1489.7	1488.1	1486.6	1485.1	1482.0
157.5°	1509.7	1511.7	1513.7	1515.7	1517.7	1517.9	1516.1	1514.4	1512.6	1510.9	1508.7
160°	1525.4	1527.2	1529.0	1530.8	1532.6	1532.7	1531.2	1529.7	1528.0	1526.5	1525.0
162.5°	1538.3	1540.5	1542.7	1544.9	1547.1	1547.4	1545.6	1543.9	1542.1	1540.4	1539.1
165°	1557.6	1559.4	1561.2	1563.0	1564.8	1564.8	1563.0	1561.2	1559.4	1557.6	1556.9
167.5°	1569.9	1572.2	1574.5	1576.8	1579.1	1579.3	1577.5	1575.7	1574.0	1572.2	1571.5
170°	1577.3	1579.6	1581.9	1584.2	1586.5	1586.8	1585.0	1583.2	1581.4	1579.6	1579.0
172.5°	1582.8	1585.1	1587.4	1589.7	1592.0	1592.2	1590.4	1588.7	1586.9	1585.1	1584.6
175°	1587.6	1590.2	1592.8	1595.3	1597.9	1598.3	1596.5	1594.7	1592.9	1591.1	1590.6
177.5°	1590.6	1592.5	1594.3	1596.2	1598.0	1598.3	1596.8	1595.3	1593.9	1592.5	1592.2
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1669.9	1665.8	1663.4	1654.4	1646.3	1638.3	1635.9	1636.8	1625.9	1615.3	1610.8
5°	1734.9	1722.4	1710.5	1693.7	1673.7	1651.7	1640.5	1631.7	1609.9	1586.1	1572.3
7.5°	1793.2	1775.3	1752.5	1720.7	1691.5	1657.1	1635.2	1615.8	1583.8	1550.3	1529.7
10°	1828.7	1804.3	1774.9	1736.2	1700.5	1658.6	1629.2	1599.9	1562.3	1522.3	1497.2
12.5°	1859.3	1826.4	1797.4	1747.7	1705.5	1653.1	1618.3	1576.8	1537.3	1489.8	1465.3
15°	1931.9	1871.2	1816.2	1759.9	1708.0	1634.8	1596.1	1540.4	1488.5	1429.7	1401.6
17.5°	1988.1	1920.0	1833.2	1761.7	1701.1	1620.1	1563.2	1496.5	1435.1	1367.9	1329.6
20°	2020.2	1941.9	1848.7	1763.7	1691.1	1598.6	1536.6	1468.5	1396.6	1320.9	1279.6
22.5°	2039.1	1956.9	1864.7	1756.1	1671.1	1581.0	1503.2	1428.4	1355.6	1273.8	1230.6
25°	2045.1	1970.1	1872.5	1749.9	1646.2	1544.2	1450.4	1377.8	1289.6	1213.3	1150.2
27.5°	2015.3	1961.5	1867.7	1738.1	1617.2	1498.0	1393.5	1311.3	1218.2	1135.4	1071.9
30°	1978.9	1947.6	1856.2	1726.2	1594.2	1466.0	1350.9	1257.7	1165.2	1081.4	1016.3
32.5°	1922.3	1915.5	1835.2	1709.1	1569.7	1425.5	1306.4	1212.2	1109.7	1027.3	965.3
35°	1811.2	1841.3	1790.5	1671.1	1523.5	1367.8	1239.0	1131.4	1025.1	946.2	888.1
37.5°	1662.4	1736.9	1723.6	1615.4	1461.2	1305.0	1162.8	1050.4	949.0	869.5	812.4
40°	1559.8	1654.8	1668.6	1572.9	1417.2	1256.5	1105.8	993.8	894.9	822.5	764.9
42.5°	1449.7	1560.8	1598.6	1521.9	1369.1	1205.4	1054.7	938.8	840.9	770.4	719.3
45°	1265.3	1412.2	1480.4	1436.6	1289.0	1121.3	966.3	848.7	759.9	693.6	654.2
47.5°	1092.7	1253.3	1345.0	1329.6	1199.8	1033.8	880.4	767.6	681.2	628.3	593.0
50°	970.6	1135.8	1246.4	1251.5	1135.8	971.3	817.5	711.1	631.7	582.3	553.5
52.5°	864.6	1022.2	1142.9	1169.4	1064.2	906.3	760.9	655.1	585.1	539.7	514.0
55°	726.1	859.3	993.2	1042.0	957.5	807.4	673.0	579.8	514.1	482.9	460.3
57.5°	603.7	714.7	838.3	892.2	840.2	711.7	585.6	504.7	451.4	424.0	406.8
60°	539.1	626.7	736.8	801.2	756.1	641.7	531.6	454.7	410.9	386.5	370.2
62.5°	479.1	556.7	649.7	708.6	684.1	576.2	477.6	409.6	371.8	349.0	337.2
65°	395.3	456.6	528.5	582.9	566.7	484.7	404.1	345.8	315.8	297.7	288.3
67.5°	325.5	369.8	419.6	467.3	454.2	396.2	331.3	286.1	263.7	248.1	242.4
70°	281.4	315.2	359.6	397.8	387.1	339.6	288.3	249.6	230.2	217.1	211.4
72.5°	239.4	267.2	301.0	332.2	325.1	285.6	242.8	213.5	198.6	186.5	181.9
75°	180.8	202.0	222.6	243.3	241.4	210.8	185.8	163.2	151.4	141.9	140.1
77.5°	133.5	145.3	159.4	171.6	168.2	150.7	131.1	118.2	109.4	103.2	102.2
80°	102.0	108.9	118.9	127.6	123.2	115.7	100.1	90.7	84.5	78.1	75.7
82.5°	73.9	80.8	86.8	91.5	88.2	81.2	71.5	65.1	61.5	57.1	56.2
85°	38.7	42.5	45.1	46.3	45.1	40.6	36.3	33.7	30.6	28.7	28.2
87.5°	18.8	18.4	18.0	18.5	16.4	15.8	13.3	11.2	11.3	11.4	10.9
90°	18.9	16.9	14.9	12.4	9.6	6.8	4.0	1.1	4.0	6.8	9.6
92.5°	24.7	23.7	22.6	22.2	22.5	22.8	23.0	23.3	23.0	22.8	22.5
95°	41.4	39.6	37.8	41.1	49.6	58.1	66.4	74.9	66.4	58.1	49.6
97.5°	51.8	47.7	43.5	53.4	77.3	101.0	124.9	148.7	124.9	101.0	77.3
100°	57.0	52.7	48.3	63.7	98.8	133.8	169.0	204.1	169.0	133.8	98.8
102.5°	140.4	176.8	213.3	235.3	242.7	250.1	257.5	264.9	257.5	250.1	242.7
105°	210.2	280.2	350.2	381.3	373.5	365.9	358.2	350.5	358.2	365.9	373.5
107.5°	266.3	350.2	434.0	472.9	466.7	460.4	454.2	448.1	454.2	460.4	466.7
110°	349.9	424.0	497.9	532.3	526.9	521.5	516.1	510.8	516.1	521.5	526.9



TEST NUMBER: P331573-830

CATALOG NUMBER: S122DIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	545.5	563.8	582.1	588.9	584.1	579.3	574.6	569.8	574.6	579.3	584.1
115°	698.6	692.2	685.8	680.4	676.0	671.7	667.3	663.0	667.3	671.7	676.0
117.5°	779.1	774.7	770.3	765.7	760.8	755.9	751.1	746.2	751.1	755.9	760.8
120°	835.9	831.3	826.7	822.5	818.6	814.7	811.0	807.1	811.0	814.7	818.6
122.5°	889.5	884.5	879.5	875.0	870.9	866.9	862.8	858.8	862.8	866.9	870.9
125°	964.5	959.7	954.8	950.6	947.3	944.1	940.7	937.4	940.7	944.1	947.3
127.5°	1034.3	1030.7	1027.1	1023.4	1019.7	1016.0	1012.3	1008.6	1012.3	1016.0	1019.7
130°	1079.3	1076.5	1073.7	1070.3	1066.1	1062.1	1057.9	1053.9	1057.9	1062.1	1066.1
132.5°	1122.7	1119.8	1117.0	1113.9	1110.4	1106.9	1103.4	1099.9	1103.4	1106.9	1110.4
135°	1184.1	1181.8	1179.5	1176.3	1172.1	1168.1	1163.9	1159.9	1163.9	1168.1	1172.1
137.5°	1240.0	1237.4	1234.7	1232.0	1229.2	1226.2	1223.4	1220.5	1223.4	1226.2	1229.2
140°	1276.5	1273.7	1270.8	1268.4	1266.3	1264.3	1262.3	1260.2	1262.3	1264.3	1266.3
142.5°	1309.8	1306.6	1303.3	1300.8	1298.9	1297.1	1295.2	1293.5	1295.2	1297.1	1298.9
145°	1355.3	1350.9	1346.5	1344.5	1344.7	1345.0	1345.3	1345.5	1345.3	1345.0	1344.7
147.5°	1397.3	1393.0	1388.7	1387.0	1388.0	1389.0	1390.0	1390.9	1390.0	1389.0	1388.0
150°	1422.7	1418.5	1414.5	1413.2	1415.0	1416.9	1418.7	1420.5	1418.7	1416.9	1415.0
152.5°	1446.1	1442.2	1438.3	1437.4	1439.4	1441.3	1443.4	1445.4	1443.4	1441.3	1439.4
155°	1478.8	1475.8	1472.7	1472.3	1474.6	1477.0	1479.2	1481.6	1479.2	1477.0	1474.6
157.5°	1506.6	1504.4	1502.2	1502.1	1504.1	1506.0	1508.0	1510.0	1508.0	1506.0	1504.1
160°	1523.4	1521.9	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5	1525.0	1523.4	1521.9
162.5°	1537.7	1536.3	1535.0	1535.1	1536.7	1538.2	1539.7	1541.3	1539.7	1538.2	1536.7
165°	1556.1	1555.4	1554.6	1555.0	1556.5	1558.0	1559.6	1561.1	1559.6	1558.0	1556.5
167.5°	1570.7	1570.1	1569.3	1569.7	1571.3	1572.8	1574.3	1575.9	1574.3	1572.8	1571.3
170°	1578.6	1578.0	1577.5	1578.0	1579.6	1581.1	1582.6	1584.2	1582.6	1581.1	1579.6
172.5°	1584.0	1583.6	1583.1	1583.6	1585.1	1586.7	1588.2	1589.7	1588.2	1586.7	1585.1
175°	1590.1	1589.6	1589.0	1589.7	1591.5	1593.3	1595.1	1596.9	1595.1	1593.3	1591.5
177.5°	1592.0	1591.9	1591.7	1592.2	1593.7	1595.2	1596.6	1598.0	1596.6	1595.2	1593.7
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



TEST NUMBER: P331573-830

CATALOG NUMBER: S122DIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1605.8	1602.8	1592.3	1586.9	1577.8	1569.3	1563.8	1566.3	1568.3	1567.3	1565.8
5°	1559.8	1547.9	1529.7	1514.1	1502.9	1482.2	1473.5	1469.1	1465.4	1460.9	1456.6
7.5°	1505.1	1486.3	1460.2	1437.9	1416.9	1391.3	1376.7	1367.9	1359.0	1349.1	1340.3
10°	1466.0	1439.7	1412.2	1380.9	1355.9	1332.8	1312.1	1298.4	1285.9	1273.9	1265.3
12.5°	1424.9	1394.7	1360.7	1317.9	1290.3	1257.3	1254.1	1229.8	1210.3	1203.0	1192.7
15°	1359.7	1317.1	1273.9	1223.3	1201.5	1171.4	1152.6	1133.9	1117.0	1105.1	1102.0
17.5°	1285.5	1230.5	1187.5	1151.1	1115.2	1084.5	1067.2	1052.3	1038.3	1022.5	1020.3
20°	1229.0	1181.4	1134.5	1102.6	1065.7	1034.4	1013.1	998.2	986.3	976.9	968.7
22.5°	1175.4	1123.4	1080.4	1045.6	1009.2	983.9	967.1	952.6	942.7	932.4	924.7
25°	1089.5	1048.9	1001.9	962.5	932.5	916.2	902.5	889.9	883.7	876.8	868.1
27.5°	1014.3	969.1	925.3	894.8	868.4	853.9	844.2	835.7	829.8	825.8	820.8
30°	961.3	915.6	881.2	851.2	829.3	814.9	808.7	803.7	796.8	794.3	791.8
32.5°	910.2	869.1	839.7	813.7	792.8	783.4	777.7	773.2	767.8	765.3	760.3
35°	838.1	803.7	774.9	760.5	743.7	735.5	731.1	724.9	719.8	717.4	716.7
37.5°	770.2	740.3	721.3	702.9	695.7	690.7	684.8	680.4	678.9	678.5	678.0
40°	726.1	701.7	684.9	669.9	666.7	659.2	654.2	650.4	650.4	651.1	650.4
42.5°	686.1	664.2	649.3	636.3	632.6	628.2	623.2	622.9	624.0	626.0	624.0
45°	625.4	609.8	599.2	592.9	586.0	581.6	581.0	582.9	583.5	584.2	586.0
47.5°	569.7	559.2	549.6	542.7	539.7	538.9	538.2	541.5	544.5	545.6	548.5
50°	536.6	524.7	516.6	512.2	509.7	508.5	509.7	513.5	515.9	519.1	520.9
52.5°	499.5	491.2	485.6	482.2	481.2	481.9	482.2	486.4	490.5	491.5	492.5
55°	448.5	442.1	440.9	435.3	437.8	437.2	440.3	442.8	446.6	450.3	450.9
57.5°	397.4	392.4	389.0	389.6	390.3	393.0	395.7	400.0	404.1	408.0	408.4
60°	363.4	360.9	359.0	359.0	360.2	364.0	367.1	371.5	374.0	376.5	378.3
62.5°	332.3	329.9	328.0	328.9	332.2	334.5	338.1	340.4	343.0	345.4	346.4
65°	283.3	282.1	284.0	285.2	285.8	289.0	293.3	295.2	297.7	299.0	303.3
67.5°	238.2	238.4	238.2	239.9	243.6	244.3	248.5	252.8	253.3	255.7	258.5
70°	207.6	208.9	210.2	211.4	214.5	215.7	218.9	220.7	223.3	225.2	227.1
72.5°	179.6	179.8	181.2	180.9	183.5	186.2	188.9	190.8	193.2	195.7	197.5
75°	138.2	138.2	139.5	140.1	143.3	146.4	145.7	146.9	149.5	151.9	153.3
77.5°	100.9	99.5	100.9	101.6	102.5	105.2	105.7	107.4	110.3	109.4	110.8
80°	76.9	75.0	76.9	77.6	77.6	80.7	80.7	81.9	83.8	81.9	83.8
82.5°	55.0	54.0	55.4	55.5	56.6	56.6	57.7	57.9	59.8	58.9	59.8
85°	27.5	26.9	27.5	26.9	27.5	28.2	28.2	27.5	27.5	28.7	26.9
87.5°	11.0	10.9	10.9	11.3	11.2	11.1	10.8	11.1	11.4	10.7	10.8
90°	12.4	14.9	16.9	18.9	21.0	23.1	24.3	25.6	26.9	28.2	29.1
92.5°	22.2	22.6	23.7	24.7	25.7	26.8	27.4	28.1	28.7	29.4	29.9
95°	41.1	37.8	39.6	41.4	43.2	45.0	46.3	47.5	48.8	50.0	50.6
97.5°	53.4	43.5	47.7	51.8	56.1	60.2	61.2	62.2	63.2	64.3	64.9
100°	63.7	48.3	52.7	57.0	61.4	65.7	67.8	69.8	71.8	73.9	75.2
102.5°	235.3	213.3	176.8	140.4	104.0	67.6	70.2	72.9	75.6	78.2	79.9
105°	381.3	350.2	280.2	210.2	140.3	70.3	73.1	76.0	78.8	81.6	83.5
107.5°	472.9	434.0	350.2	266.3	182.4	98.5	95.6	92.7	89.8	87.0	86.1
110°	532.3	497.9	424.0	349.9	275.8	201.8	176.2	150.5	124.9	99.2	87.0



TEST NUMBER: P331573-830

CATALOG NUMBER: S122DIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	588.9	582.1	563.8	545.5	527.3	508.9	415.5	322.0	228.6	135.1	88.7
115°	680.4	685.8	692.2	698.6	705.0	711.4	592.8	474.1	355.5	236.9	168.3
117.5°	765.7	770.3	774.7	779.1	783.5	788.0	759.2	730.6	701.8	673.2	628.5
120°	822.5	826.7	831.3	835.9	840.6	845.1	848.2	851.3	854.3	857.4	841.7
122.5°	875.0	879.5	884.5	889.5	894.6	899.6	901.4	903.2	905.1	906.9	904.5
125°	950.6	954.8	959.7	964.5	969.4	974.3	976.1	977.9	979.7	981.5	982.7
127.5°	1023.4	1027.1	1030.7	1034.3	1037.9	1041.6	1044.2	1046.8	1049.4	1052.1	1053.5
130°	1070.3	1073.7	1076.5	1079.3	1082.1	1085.0	1087.8	1090.6	1093.4	1096.2	1097.5
132.5°	1113.9	1117.0	1119.8	1122.7	1125.5	1128.3	1130.7	1133.1	1135.5	1137.9	1139.0
135°	1176.3	1179.5	1181.8	1184.1	1186.4	1188.7	1191.3	1193.8	1196.4	1199.0	1200.0
137.5°	1232.0	1234.7	1237.4	1240.0	1242.6	1245.2	1247.7	1250.2	1252.7	1255.3	1256.0
140°	1268.4	1270.8	1273.7	1276.5	1279.3	1282.1	1284.4	1286.8	1289.0	1291.4	1291.8
142.5°	1300.8	1303.3	1306.6	1309.8	1313.0	1316.3	1318.3	1320.4	1322.6	1324.6	1325.0
145°	1344.5	1346.5	1350.9	1355.3	1359.6	1364.0	1365.7	1367.5	1369.3	1371.1	1371.4
147.5°	1387.0	1388.7	1393.0	1397.3	1401.7	1405.9	1407.3	1408.6	1409.9	1411.3	1411.4
150°	1413.2	1414.5	1418.5	1422.7	1426.7	1430.9	1432.4	1433.9	1435.5	1437.0	1437.1
152.5°	1437.4	1438.3	1442.2	1446.1	1450.0	1453.9	1455.5	1457.0	1458.5	1460.1	1460.0
155°	1472.3	1472.7	1475.8	1478.8	1482.0	1485.1	1486.6	1488.1	1489.7	1491.2	1490.9
157.5°	1502.1	1502.2	1504.4	1506.6	1508.7	1510.9	1512.6	1514.4	1516.1	1517.9	1517.7
160°	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5	1528.0	1529.7	1531.2	1532.7	1532.6
162.5°	1535.1	1535.0	1536.3	1537.7	1539.1	1540.4	1542.1	1543.9	1545.6	1547.4	1547.1
165°	1555.0	1554.6	1555.4	1556.1	1556.9	1557.6	1559.4	1561.2	1563.0	1564.8	1564.8
167.5°	1569.7	1569.3	1570.1	1570.7	1571.5	1572.2	1574.0	1575.7	1577.5	1579.3	1579.1
170°	1578.0	1577.5	1578.0	1578.6	1579.0	1579.6	1581.4	1583.2	1585.0	1586.8	1586.5
172.5°	1583.6	1583.1	1583.6	1584.0	1584.6	1585.1	1586.9	1588.7	1590.4	1592.2	1592.0
175°	1589.7	1589.0	1589.6	1590.1	1590.6	1591.1	1592.9	1594.7	1596.5	1598.3	1597.9
177.5°	1592.2	1591.7	1591.9	1592.0	1592.2	1592.5	1593.9	1595.3	1596.8	1598.3	1598.0
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



TEST NUMBER: P331573-830

CATALOG NUMBER: S122DIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1560.8	1559.8	1559.8	1555.3	1559.8	1559.8	1560.8	1565.8	1567.3	1568.3	1566.3
5°	1447.8	1446.0	1442.8	1446.0	1442.8	1446.0	1447.8	1456.6	1460.9	1465.4	1469.1
7.5°	1336.1	1328.6	1327.5	1320.1	1327.5	1328.6	1336.1	1340.3	1349.1	1359.0	1367.9
10°	1254.6	1249.6	1249.0	1237.1	1249.0	1249.6	1254.6	1265.3	1273.9	1285.9	1298.4
12.5°	1192.6	1180.5	1182.9	1176.0	1182.9	1180.5	1192.6	1192.7	1203.0	1210.3	1229.8
15°	1085.1	1085.1	1082.6	1072.0	1082.6	1085.1	1085.1	1102.0	1105.1	1117.0	1133.9
17.5°	1008.0	1006.6	1000.7	1003.7	1000.7	1006.6	1008.0	1020.3	1022.5	1038.3	1052.3
20°	961.9	958.2	950.6	950.6	950.6	958.2	961.9	968.7	976.9	986.3	998.2
22.5°	918.4	918.1	910.1	912.6	910.1	918.1	918.4	924.7	932.4	942.7	952.6
25°	867.4	862.4	858.8	860.5	858.8	862.4	867.4	868.1	876.8	883.7	889.9
27.5°	819.2	816.4	816.1	811.1	816.1	816.4	819.2	820.8	825.8	829.8	835.7
30°	791.2	784.9	786.2	783.1	786.2	784.9	791.2	791.8	794.3	796.8	803.7
32.5°	759.1	756.9	755.6	753.0	755.6	756.9	759.1	760.3	765.3	767.8	773.2
35°	715.5	716.1	712.9	714.3	712.9	716.1	715.5	716.7	717.4	719.8	724.9
37.5°	677.3	679.3	677.9	678.3	677.9	679.3	677.3	678.0	678.5	678.9	680.4
40°	652.3	652.3	652.3	654.2	652.3	652.3	652.3	650.4	651.1	650.4	650.4
42.5°	628.3	627.3	626.3	626.1	626.3	627.3	628.3	624.0	626.0	624.0	622.9
45°	587.3	589.2	589.7	586.6	589.7	589.2	587.3	586.0	584.2	583.5	582.9
47.5°	550.2	550.4	550.2	552.9	550.2	550.4	550.2	548.5	545.6	544.5	541.5
50°	524.1	522.8	524.1	522.8	524.1	522.8	524.1	520.9	519.1	515.9	513.5
52.5°	496.6	496.8	496.1	495.9	496.1	496.8	496.6	492.5	491.5	490.5	486.4
55°	453.5	454.7	454.0	454.0	454.0	454.7	453.5	450.9	450.3	446.6	442.8
57.5°	408.8	409.9	410.8	408.0	410.8	409.9	408.8	408.4	408.0	404.1	400.0
60°	377.8	380.9	380.2	379.0	380.2	380.9	377.8	378.3	376.5	374.0	371.5
62.5°	349.2	350.3	350.2	350.0	350.2	350.3	349.2	346.4	345.4	343.0	340.4
65°	305.2	306.4	304.5	306.4	304.5	306.4	305.2	303.3	299.0	297.7	295.2
67.5°	257.8	258.2	259.6	260.4	259.6	258.2	257.8	258.5	255.7	253.3	252.8
70°	228.3	227.6	229.5	231.4	229.5	227.6	228.3	227.1	225.2	223.3	220.7
72.5°	197.3	198.6	198.0	199.3	198.0	198.6	197.3	197.5	195.7	193.2	190.8
75°	151.9	153.8	153.3	155.1	153.3	153.8	151.9	153.3	151.9	149.5	146.9
77.5°	109.8	110.1	109.8	110.8	109.8	110.1	109.8	110.8	109.4	110.3	107.4
80°	83.8	82.6	81.3	83.8	81.3	82.6	83.8	83.8	81.9	83.8	81.9
82.5°	58.2	59.0	57.8	57.8	57.8	59.0	58.2	59.8	58.9	59.8	57.9
85°	26.9	26.3	25.0	25.0	25.0	26.3	26.9	26.9	28.7	27.5	27.5
87.5°	10.9	10.6	10.7	10.3	10.7	10.6	10.9	10.8	10.7	11.4	11.1
90°	29.6	30.1	30.6	31.1	30.6	30.1	29.6	29.1	28.2	26.9	25.6
92.5°	30.2	30.5	30.8	31.1	30.8	30.5	30.2	29.9	29.4	28.7	28.1
95°	50.3	50.0	49.9	49.6	49.9	50.0	50.3	50.6	50.0	48.8	47.5
97.5°	65.2	65.6	65.9	66.2	65.9	65.6	65.2	64.9	64.3	63.2	62.2
100°	75.7	76.3	76.7	77.3	76.7	76.3	75.7	75.2	73.9	71.8	69.8
102.5°	80.6	81.3	82.1	82.8	82.1	81.3	80.6	79.9	78.2	75.6	72.9
105°	84.5	85.6	86.6	87.7	86.6	85.6	84.5	83.5	81.6	78.8	76.0
107.5°	87.1	88.1	89.2	90.2	89.2	88.1	87.1	86.1	87.0	89.8	92.7
110°	88.0	89.1	90.1	91.0	90.1	89.1	88.0	87.0	99.2	124.9	150.5



TEST NUMBER: P331573-830

CATALOG NUMBER: S122DIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	89.5	90.4	91.1	92.0	91.1	90.4	89.5	88.7	135.1	228.6	322.0
115°	149.9	131.5	113.0	94.5	113.0	131.5	149.9	168.3	236.9	355.5	474.1
117.5°	567.9	507.3	446.7	386.0	446.7	507.3	567.9	628.5	673.2	701.8	730.6
120°	807.1	772.5	737.9	703.3	737.9	772.5	807.1	841.7	857.4	854.3	851.3
122.5°	897.8	891.1	884.4	877.6	884.4	891.1	897.8	904.5	906.9	905.1	903.2
125°	983.4	984.3	985.1	985.8	985.1	984.3	983.4	982.7	981.5	979.7	977.9
127.5°	1053.6	1053.8	1053.9	1054.0	1053.9	1053.8	1053.6	1053.5	1052.1	1049.4	1046.8
130°	1097.2	1097.0	1096.7	1096.5	1096.7	1097.0	1097.2	1097.5	1096.2	1093.4	1090.6
132.5°	1138.8	1138.5	1138.2	1138.0	1138.2	1138.5	1138.8	1139.0	1137.9	1135.5	1133.1
135°	1199.5	1199.0	1198.4	1198.0	1198.4	1199.0	1199.5	1200.0	1199.0	1196.4	1193.8
137.5°	1255.2	1254.3	1253.5	1252.5	1253.5	1254.3	1255.2	1256.0	1255.3	1252.7	1250.2
140°	1290.5	1289.3	1288.0	1286.8	1288.0	1289.3	1290.5	1291.8	1291.4	1289.0	1286.8
142.5°	1323.8	1322.5	1321.2	1319.9	1321.2	1322.5	1323.8	1325.0	1324.6	1322.6	1320.4
145°	1370.1	1368.9	1367.5	1366.3	1367.5	1368.9	1370.1	1371.4	1371.1	1369.3	1367.5
147.5°	1410.3	1409.2	1408.2	1407.1	1408.2	1409.2	1410.3	1411.4	1411.3	1409.9	1408.6
150°	1435.9	1434.5	1433.2	1432.0	1433.2	1434.5	1435.9	1437.1	1437.0	1435.5	1433.9
152.5°	1458.3	1456.6	1454.9	1453.2	1454.9	1456.6	1458.3	1460.0	1460.1	1458.5	1457.0
155°	1488.8	1486.9	1484.8	1482.7	1484.8	1486.9	1488.8	1490.9	1491.2	1489.7	1488.1
157.5°	1515.7	1513.7	1511.7	1509.7	1511.7	1513.7	1515.7	1517.7	1517.9	1516.1	1514.4
160°	1530.8	1529.0	1527.2	1525.4	1527.2	1529.0	1530.8	1532.6	1532.7	1531.2	1529.7
162.5°	1544.9	1542.7	1540.5	1538.3	1540.5	1542.7	1544.9	1547.1	1547.4	1545.6	1543.9
165°	1563.0	1561.2	1559.4	1557.6	1559.4	1561.2	1563.0	1564.8	1564.8	1563.0	1561.2
167.5°	1576.8	1574.5	1572.2	1569.9	1572.2	1574.5	1576.8	1579.1	1579.3	1577.5	1575.7
170°	1584.2	1581.9	1579.6	1577.3	1579.6	1581.9	1584.2	1586.5	1586.8	1585.0	1583.2
172.5°	1589.7	1587.4	1585.1	1582.8	1585.1	1587.4	1589.7	1592.0	1592.2	1590.4	1588.7
175°	1595.3	1592.8	1590.2	1587.6	1590.2	1592.8	1595.3	1597.9	1598.3	1596.5	1594.7
177.5°	1596.2	1594.3	1592.5	1590.6	1592.5	1594.3	1596.2	1598.0	1598.3	1596.8	1595.3
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



TEST NUMBER: P331573-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1563.8	1569.3	1577.8	1586.9	1592.3	1602.8	1605.8	1610.8	1615.3	1625.9	1636.8
5°	1473.5	1482.2	1502.9	1514.1	1529.7	1547.9	1559.8	1572.3	1586.1	1609.9	1631.7
7.5°	1376.7	1391.3	1416.9	1437.9	1460.2	1486.3	1505.1	1529.7	1550.3	1583.8	1615.8
10°	1312.1	1332.8	1355.9	1380.9	1412.2	1439.7	1466.0	1497.2	1522.3	1562.3	1599.9
12.5°	1254.1	1257.3	1290.3	1317.9	1360.7	1394.7	1424.9	1465.3	1489.8	1537.3	1576.8
15°	1152.6	1171.4	1201.5	1223.3	1273.9	1317.1	1359.7	1401.6	1429.7	1488.5	1540.4
17.5°	1067.2	1084.5	1115.2	1151.1	1187.5	1230.5	1285.5	1329.6	1367.9	1435.1	1496.5
20°	1013.1	1034.4	1065.7	1102.6	1134.5	1181.4	1229.0	1279.6	1320.9	1396.6	1468.5
22.5°	967.1	983.9	1009.2	1045.6	1080.4	1123.4	1175.4	1230.6	1273.8	1355.6	1428.4
25°	902.5	916.2	932.5	962.5	1001.9	1048.9	1089.5	1150.2	1213.3	1289.6	1377.8
27.5°	844.2	853.9	868.4	894.8	925.3	969.1	1014.3	1071.9	1135.4	1218.2	1311.3
30°	808.7	814.9	829.3	851.2	881.2	915.6	961.3	1016.3	1081.4	1165.2	1257.7
32.5°	777.7	783.4	792.8	813.7	839.7	869.1	910.2	965.3	1027.3	1109.7	1212.2
35°	731.1	735.5	743.7	760.5	774.9	803.7	838.1	888.1	946.2	1025.1	1131.4
37.5°	684.8	690.7	695.7	702.9	721.3	740.3	770.2	812.4	869.5	949.0	1050.4
40°	654.2	659.2	666.7	669.9	684.9	701.7	726.1	764.9	822.5	894.9	993.8
42.5°	623.2	628.2	632.6	636.3	649.3	664.2	686.1	719.3	770.4	840.9	938.8
45°	581.0	581.6	586.0	592.9	599.2	609.8	625.4	654.2	693.6	759.9	848.7
47.5°	538.2	538.9	539.7	542.7	549.6	559.2	569.7	593.0	628.3	681.2	767.6
50°	509.7	508.5	509.7	512.2	516.6	524.7	536.6	553.5	582.3	631.7	711.1
52.5°	482.2	481.9	481.2	482.2	485.6	491.2	499.5	514.0	539.7	585.1	655.1
55°	440.3	437.2	437.8	435.3	440.9	442.1	448.5	460.3	482.9	514.1	579.8
57.5°	395.7	393.0	390.3	389.6	389.0	392.4	397.4	406.8	424.0	451.4	504.7
60°	367.1	364.0	360.2	359.0	359.0	360.9	363.4	370.2	386.5	410.9	454.7
62.5°	338.1	334.5	332.2	328.9	328.0	329.9	332.3	337.2	349.0	371.8	409.6
65°	293.3	289.0	285.8	285.2	284.0	282.1	283.3	288.3	297.7	315.8	345.8
67.5°	248.5	244.3	243.6	239.9	238.2	238.4	238.2	242.4	248.1	263.7	286.1
70°	218.9	215.7	214.5	211.4	210.2	208.9	207.6	211.4	217.1	230.2	249.6
72.5°	188.9	186.2	183.5	180.9	181.2	179.8	179.6	181.9	186.5	198.6	213.5
75°	145.7	146.4	143.3	140.1	139.5	138.2	138.2	140.1	141.9	151.4	163.2
77.5°	105.7	105.2	102.5	101.6	100.9	99.5	100.9	102.2	103.2	109.4	118.2
80°	80.7	80.7	77.6	77.6	76.9	75.0	76.9	75.7	78.1	84.5	90.7
82.5°	57.7	56.6	56.6	55.5	55.4	54.0	55.0	56.2	57.1	61.5	65.1
85°	28.2	28.2	27.5	26.9	27.5	26.9	27.5	28.2	28.7	30.6	33.7
87.5°	10.8	11.1	11.2	11.3	10.9	10.9	11.0	10.9	11.4	11.3	11.2
90°	24.3	23.1	21.0	18.9	16.9	14.9	12.4	9.6	6.8	4.0	1.1
92.5°	27.4	26.8	25.7	24.7	23.7	22.6	22.2	22.5	22.8	23.0	23.3
95°	46.3	45.0	43.2	41.4	39.6	37.8	41.1	49.6	58.1	66.4	74.9
97.5°	61.2	60.2	56.1	51.8	47.7	43.5	53.4	77.3	101.0	124.9	148.7
100°	67.8	65.7	61.4	57.0	52.7	48.3	63.7	98.8	133.8	169.0	204.1
102.5°	70.2	67.6	104.0	140.4	176.8	213.3	235.3	242.7	250.1	257.5	264.9
105°	73.1	70.3	140.3	210.2	280.2	350.2	381.3	373.5	365.9	358.2	350.5
107.5°	95.6	98.5	182.4	266.3	350.2	434.0	472.9	466.7	460.4	454.2	448.1
110°	176.2	201.8	275.8	349.9	424.0	497.9	532.3	526.9	521.5	516.1	510.8



TEST NUMBER: P331573-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	415.5	508.9	527.3	545.5	563.8	582.1	588.9	584.1	579.3	574.6	569.8
115°	592.8	711.4	705.0	698.6	692.2	685.8	680.4	676.0	671.7	667.3	663.0
117.5°	759.2	788.0	783.5	779.1	774.7	770.3	765.7	760.8	755.9	751.1	746.2
120°	848.2	845.1	840.6	835.9	831.3	826.7	822.5	818.6	814.7	811.0	807.1
122.5°	901.4	899.6	894.6	889.5	884.5	879.5	875.0	870.9	866.9	862.8	858.8
125°	976.1	974.3	969.4	964.5	959.7	954.8	950.6	947.3	944.1	940.7	937.4
127.5°	1044.2	1041.6	1037.9	1034.3	1030.7	1027.1	1023.4	1019.7	1016.0	1012.3	1008.6
130°	1087.8	1085.0	1082.1	1079.3	1076.5	1073.7	1070.3	1066.1	1062.1	1057.9	1053.9
132.5°	1130.7	1128.3	1125.5	1122.7	1119.8	1117.0	1113.9	1110.4	1106.9	1103.4	1099.9
135°	1191.3	1188.7	1186.4	1184.1	1181.8	1179.5	1176.3	1172.1	1168.1	1163.9	1159.9
137.5°	1247.7	1245.2	1242.6	1240.0	1237.4	1234.7	1232.0	1229.2	1226.2	1223.4	1220.5
140°	1284.4	1282.1	1279.3	1276.5	1273.7	1270.8	1268.4	1266.3	1264.3	1262.3	1260.2
142.5°	1318.3	1316.3	1313.0	1309.8	1306.6	1303.3	1300.8	1298.9	1297.1	1295.2	1293.5
145°	1365.7	1364.0	1359.6	1355.3	1350.9	1346.5	1344.5	1344.7	1345.0	1345.3	1345.5
147.5°	1407.3	1405.9	1401.7	1397.3	1393.0	1388.7	1387.0	1388.0	1389.0	1390.0	1390.9
150°	1432.4	1430.9	1426.7	1422.7	1418.5	1414.5	1413.2	1415.0	1416.9	1418.7	1420.5
152.5°	1455.5	1453.9	1450.0	1446.1	1442.2	1438.3	1437.4	1439.4	1441.3	1443.4	1445.4
155°	1486.6	1485.1	1482.0	1478.8	1475.8	1472.7	1472.3	1474.6	1477.0	1479.2	1481.6
157.5°	1512.6	1510.9	1508.7	1506.6	1504.4	1502.2	1502.1	1504.1	1506.0	1508.0	1510.0
160°	1528.0	1526.5	1525.0	1523.4	1521.9	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5
162.5°	1542.1	1540.4	1539.1	1537.7	1536.3	1535.0	1535.1	1536.7	1538.2	1539.7	1541.3
165°	1559.4	1557.6	1556.9	1556.1	1555.4	1554.6	1555.0	1556.5	1558.0	1559.6	1561.1
167.5°	1574.0	1572.2	1571.5	1570.7	1570.1	1569.3	1569.7	1571.3	1572.8	1574.3	1575.9
170°	1581.4	1579.6	1579.0	1578.6	1578.0	1577.5	1578.0	1579.6	1581.1	1582.6	1584.2
172.5°	1586.9	1585.1	1584.6	1584.0	1583.6	1583.1	1583.6	1585.1	1586.7	1588.2	1589.7
175°	1592.9	1591.1	1590.6	1590.1	1589.6	1589.0	1589.7	1591.5	1593.3	1595.1	1596.9
177.5°	1593.9	1592.5	1592.2	1592.0	1591.9	1591.7	1592.2	1593.7	1595.2	1596.6	1598.0
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



TEST NUMBER: P331573-830

CATALOG NUMBER: S122DIW-S865D1240U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1635.9	1638.3	1646.3	1654.4	1663.4	1665.8	1669.9	1666.4	1665.4	1674.9	1681.9
5°	1640.5	1651.7	1673.7	1693.7	1710.5	1722.4	1734.9	1739.9	1749.3	1762.5	1778.7
7.5°	1635.2	1657.1	1691.5	1720.7	1752.5	1775.3	1793.2	1808.5	1827.0	1851.9	1879.1
10°	1629.2	1658.6	1700.5	1736.2	1774.9	1804.3	1828.7	1852.5	1880.0	1914.4	1950.0
12.5°	1618.3	1653.1	1705.5	1747.7	1797.4	1826.4	1859.3	1910.5	1940.0	1988.0	2038.2
15°	1596.1	1634.8	1708.0	1759.9	1816.2	1871.2	1931.9	1980.8	2029.5	2057.7	2128.4
17.5°	1563.2	1620.1	1701.1	1761.7	1833.2	1920.0	1988.1	2043.3	2099.7	2145.3	2180.8
20°	1536.6	1598.6	1691.1	1763.7	1848.7	1941.9	2020.2	2076.4	2125.2	2163.3	2185.2
22.5°	1503.2	1581.0	1671.1	1756.1	1864.7	1956.9	2039.1	2083.4	2124.2	2142.8	2151.2
25°	1450.4	1544.2	1646.2	1749.9	1872.5	1970.1	2045.1	2072.0	2083.9	2065.8	2035.7
27.5°	1393.5	1498.0	1617.2	1738.1	1867.7	1961.5	2015.3	2011.1	1990.9	1932.3	1885.4
30°	1350.9	1466.0	1594.2	1726.2	1856.2	1947.6	1978.9	1947.6	1901.9	1836.3	1769.3
32.5°	1306.4	1425.5	1569.7	1709.1	1835.2	1915.5	1922.3	1868.5	1797.8	1723.2	1639.7
35°	1239.0	1367.8	1523.5	1671.1	1790.5	1841.3	1811.2	1716.2	1632.4	1530.4	1416.5
37.5°	1162.8	1305.0	1461.2	1615.4	1723.6	1736.9	1662.4	1562.3	1444.1	1324.3	1190.3
40°	1105.8	1256.5	1417.2	1572.9	1668.6	1654.8	1559.8	1449.7	1309.0	1162.6	1038.2
42.5°	1054.7	1205.4	1369.1	1521.9	1598.6	1560.8	1449.7	1314.7	1163.4	1025.6	911.6
45°	966.3	1121.3	1289.0	1436.6	1480.4	1412.2	1265.3	1115.1	966.3	851.2	761.1
47.5°	880.4	1033.8	1199.8	1329.6	1345.0	1253.3	1092.7	938.3	810.3	716.6	653.1
50°	817.5	971.3	1135.8	1251.5	1246.4	1135.8	970.6	823.7	716.7	641.0	598.5
52.5°	760.9	906.3	1064.2	1169.4	1142.9	1022.2	864.6	734.1	646.2	587.0	548.5
55°	673.0	807.4	957.5	1042.0	993.2	859.3	726.1	621.0	556.0	511.6	481.5
57.5°	585.6	711.7	840.2	892.2	838.3	714.7	603.7	527.4	478.5	445.6	426.1
60°	531.6	641.7	756.1	801.2	736.8	626.7	539.1	471.0	431.5	404.6	387.1
62.5°	477.6	576.2	684.1	708.6	649.7	556.7	479.1	422.4	390.0	366.1	349.6
65°	404.1	484.7	566.7	582.9	528.5	456.6	395.3	358.4	329.6	312.1	299.0
67.5°	331.3	396.2	454.2	467.3	419.6	369.8	325.5	293.3	273.8	259.3	248.2
70°	288.3	339.6	387.1	397.8	359.6	315.2	281.4	255.8	238.3	225.7	215.2
72.5°	242.8	285.6	325.1	332.2	301.0	267.2	239.4	219.2	203.8	195.8	185.6
75°	185.8	210.8	241.4	243.3	222.6	202.0	180.8	167.6	159.5	149.5	144.5
77.5°	131.1	150.7	168.2	171.6	159.4	145.3	133.5	123.1	116.2	111.6	107.0
80°	100.1	115.7	123.2	127.6	118.9	108.9	102.0	95.1	90.7	87.6	84.5
82.5°	71.5	81.2	88.2	91.5	86.8	80.8	73.9	70.0	66.6	64.0	63.0
85°	36.3	40.6	45.1	46.3	45.1	42.5	38.7	38.7	36.9	36.3	36.3
87.5°	13.3	15.8	16.4	18.5	18.0	18.4	18.8	18.8	18.7	18.4	18.1
90°	4.0	6.8	9.6	12.4	14.9	16.9	18.9	21.0	23.1	24.3	25.6
92.5°	23.0	22.8	22.5	22.2	22.6	23.7	24.7	25.7	26.8	27.4	28.1
95°	66.4	58.1	49.6	41.1	37.8	39.6	41.4	43.2	45.0	46.3	47.5
97.5°	124.9	101.0	77.3	53.4	43.5	47.7	51.8	56.1	60.2	61.2	62.2
100°	169.0	133.8	98.8	63.7	48.3	52.7	57.0	61.4	65.7	67.8	69.8
102.5°	257.5	250.1	242.7	235.3	213.3	176.8	140.4	104.0	67.6	70.2	72.9
105°	358.2	365.9	373.5	381.3	350.2	280.2	210.2	140.3	70.3	73.1	76.0
107.5°	454.2	460.4	466.7	472.9	434.0	350.2	266.3	182.4	98.5	95.6	92.7
110°	516.1	521.5	526.9	532.3	497.9	424.0	349.9	275.8	201.8	176.2	150.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	574.6	579.3	584.1	588.9	582.1	563.8	545.5	527.3	508.9	415.5	322.0
115°	667.3	671.7	676.0	680.4	685.8	692.2	698.6	705.0	711.4	592.8	474.1
117.5°	751.1	755.9	760.8	765.7	770.3	774.7	779.1	783.5	788.0	759.2	730.6
120°	811.0	814.7	818.6	822.5	826.7	831.3	835.9	840.6	845.1	848.2	851.3
122.5°	862.8	866.9	870.9	875.0	879.5	884.5	889.5	894.6	899.6	901.4	903.2
125°	940.7	944.1	947.3	950.6	954.8	959.7	964.5	969.4	974.3	976.1	977.9
127.5°	1012.3	1016.0	1019.7	1023.4	1027.1	1030.7	1034.3	1037.9	1041.6	1044.2	1046.8
130°	1057.9	1062.1	1066.1	1070.3	1073.7	1076.5	1079.3	1082.1	1085.0	1087.8	1090.6
132.5°	1103.4	1106.9	1110.4	1113.9	1117.0	1119.8	1122.7	1125.5	1128.3	1130.7	1133.1
135°	1163.9	1168.1	1172.1	1176.3	1179.5	1181.8	1184.1	1186.4	1188.7	1191.3	1193.8
137.5°	1223.4	1226.2	1229.2	1232.0	1234.7	1237.4	1240.0	1242.6	1245.2	1247.7	1250.2
140°	1262.3	1264.3	1266.3	1268.4	1270.8	1273.7	1276.5	1279.3	1282.1	1284.4	1286.8
142.5°	1295.2	1297.1	1298.9	1300.8	1303.3	1306.6	1309.8	1313.0	1316.3	1318.3	1320.4
145°	1345.3	1345.0	1344.7	1344.5	1346.5	1350.9	1355.3	1359.6	1364.0	1365.7	1367.5
147.5°	1390.0	1389.0	1388.0	1387.0	1388.7	1393.0	1397.3	1401.7	1405.9	1407.3	1408.6
150°	1418.7	1416.9	1415.0	1413.2	1414.5	1418.5	1422.7	1426.7	1430.9	1432.4	1433.9
152.5°	1443.4	1441.3	1439.4	1437.4	1438.3	1442.2	1446.1	1450.0	1453.9	1455.5	1457.0
155°	1479.2	1477.0	1474.6	1472.3	1472.7	1475.8	1478.8	1482.0	1485.1	1486.6	1488.1
157.5°	1508.0	1506.0	1504.1	1502.1	1502.2	1504.4	1506.6	1508.7	1510.9	1512.6	1514.4
160°	1525.0	1523.4	1521.9	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5	1528.0	1529.7
162.5°	1539.7	1538.2	1536.7	1535.1	1535.0	1536.3	1537.7	1539.1	1540.4	1542.1	1543.9
165°	1559.6	1558.0	1556.5	1555.0	1554.6	1555.4	1556.1	1556.9	1557.6	1559.4	1561.2
167.5°	1574.3	1572.8	1571.3	1569.7	1569.3	1570.1	1570.7	1571.5	1572.2	1574.0	1575.7
170°	1582.6	1581.1	1579.6	1578.0	1577.5	1578.0	1578.6	1579.0	1579.6	1581.4	1583.2
172.5°	1588.2	1586.7	1585.1	1583.6	1583.1	1583.6	1584.0	1584.6	1585.1	1586.9	1588.7
175°	1595.1	1593.3	1591.5	1589.7	1589.0	1589.6	1590.1	1590.6	1591.1	1592.9	1594.7
177.5°	1596.6	1595.2	1593.7	1592.2	1591.7	1591.9	1592.0	1592.2	1592.5	1593.9	1595.3
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1687.9	1694.9	1694.9	1695.9	1703.9	1702.9	1702.4
5°	1796.2	1806.9	1808.1	1819.4	1826.8	1824.4	1817.5
7.5°	1898.4	1918.2	1933.2	1941.5	1951.4	1957.6	1954.8
10°	1979.4	2008.2	2025.7	2037.6	2052.0	2062.7	2058.9
12.5°	2053.0	2087.3	2111.3	2131.7	2133.5	2147.2	2138.0
15°	2167.8	2203.9	2207.7	2222.7	2234.7	2233.4	2234.0
17.5°	2205.6	2217.2	2219.6	2220.0	2220.2	2215.7	2206.2
20°	2192.1	2187.7	2177.1	2169.0	2154.6	2152.7	2140.2
22.5°	2128.1	2114.2	2087.5	2069.9	2047.5	2041.6	2038.2
25°	2002.0	1971.3	1928.8	1888.1	1876.9	1855.0	1861.2
27.5°	1829.0	1781.2	1735.1	1702.1	1672.3	1639.5	1648.9
30°	1707.4	1653.6	1588.6	1538.5	1506.7	1475.4	1469.7
32.5°	1562.3	1483.5	1411.0	1366.9	1318.1	1298.3	1276.6
35°	1312.1	1235.2	1163.3	1101.4	1065.7	1038.2	1013.1
37.5°	1087.1	998.5	940.5	890.3	864.6	848.9	852.8
40°	947.5	870.0	827.5	789.3	765.5	754.2	756.8
42.5°	834.4	776.4	741.4	715.2	698.4	692.2	690.7
45°	706.1	673.5	644.8	629.8	621.7	614.8	610.4
47.5°	618.5	592.0	575.8	566.8	559.8	552.7	552.6
50°	566.0	548.5	537.2	527.8	522.3	517.3	521.6
52.5°	525.9	510.0	498.7	490.3	488.2	483.7	483.6
55°	466.6	454.0	445.9	438.4	434.7	432.2	429.0
57.5°	412.6	400.7	393.1	388.4	381.3	378.7	377.8
60°	374.0	364.6	357.1	350.8	347.7	342.7	342.7
62.5°	338.5	329.1	322.1	317.4	312.2	310.2	310.8
65°	287.1	279.6	272.7	267.7	266.5	262.7	263.9
67.5°	239.8	234.8	227.5	224.8	222.4	220.4	218.9
70°	208.3	203.3	199.5	195.8	193.9	193.9	193.9
72.5°	181.7	175.8	173.5	168.7	169.8	167.9	165.9
75°	140.7	137.0	135.1	133.2	130.1	130.1	130.1
77.5°	103.6	102.5	100.2	98.2	97.5	96.8	97.1
80°	80.0	79.5	78.1	78.1	76.9	76.3	75.0
82.5°	61.5	59.9	59.2	58.6	58.4	58.2	58.1
85°	35.1	33.7	33.7	34.4	33.2	33.2	33.7
87.5°	18.9	19.1	18.9	18.9	19.5	19.1	19.2
90°	26.9	28.2	29.1	29.6	30.1	30.6	31.1
92.5°	28.7	29.4	29.9	30.2	30.5	30.8	31.1
95°	48.8	50.0	50.6	50.3	50.0	49.9	49.6
97.5°	63.2	64.3	64.9	65.2	65.6	65.9	66.2
100°	71.8	73.9	75.2	75.7	76.3	76.7	77.3
102.5°	75.6	78.2	79.9	80.6	81.3	82.1	82.8
105°	78.8	81.6	83.5	84.5	85.6	86.6	87.7
107.5°	89.8	87.0	86.1	87.1	88.1	89.2	90.2
110°	124.9	99.2	87.0	88.0	89.1	90.1	91.0



TEST NUMBER: P331573-830

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	228.6	135.1	88.7	89.5	90.4	91.1	92.0
115°	355.5	236.9	168.3	149.9	131.5	113.0	94.5
117.5°	701.8	673.2	628.5	567.9	507.3	446.7	386.0
120°	854.3	857.4	841.7	807.1	772.5	737.9	703.3
122.5°	905.1	906.9	904.5	897.8	891.1	884.4	877.6
125°	979.7	981.5	982.7	983.4	984.3	985.1	985.8
127.5°	1049.4	1052.1	1053.5	1053.6	1053.8	1053.9	1054.0
130°	1093.4	1096.2	1097.5	1097.2	1097.0	1096.7	1096.5
132.5°	1135.5	1137.9	1139.0	1138.8	1138.5	1138.2	1138.0
135°	1196.4	1199.0	1200.0	1199.5	1199.0	1198.4	1198.0
137.5°	1252.7	1255.3	1256.0	1255.2	1254.3	1253.5	1252.5
140°	1289.0	1291.4	1291.8	1290.5	1289.3	1288.0	1286.8
142.5°	1322.6	1324.6	1325.0	1323.8	1322.5	1321.2	1319.9
145°	1369.3	1371.1	1371.4	1370.1	1368.9	1367.5	1366.3
147.5°	1409.9	1411.3	1411.4	1410.3	1409.2	1408.2	1407.1
150°	1435.5	1437.0	1437.1	1435.9	1434.5	1433.2	1432.0
152.5°	1458.5	1460.1	1460.0	1458.3	1456.6	1454.9	1453.2
155°	1489.7	1491.2	1490.9	1488.8	1486.9	1484.8	1482.7
157.5°	1516.1	1517.9	1517.7	1515.7	1513.7	1511.7	1509.7
160°	1531.2	1532.7	1532.6	1530.8	1529.0	1527.2	1525.4
162.5°	1545.6	1547.4	1547.1	1544.9	1542.7	1540.5	1538.3
165°	1563.0	1564.8	1564.8	1563.0	1561.2	1559.4	1557.6
167.5°	1577.5	1579.3	1579.1	1576.8	1574.5	1572.2	1569.9
170°	1585.0	1586.8	1586.5	1584.2	1581.9	1579.6	1577.3
172.5°	1590.4	1592.2	1592.0	1589.7	1587.4	1585.1	1582.8
175°	1596.5	1598.3	1597.9	1595.3	1592.8	1590.2	1587.6
177.5°	1596.8	1598.3	1598.0	1596.2	1594.3	1592.5	1590.6
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4

(END OF REPORT)