

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: P331821-830

Luminaire Tested: **S122RDIW-S675D1440U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331821-830
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: S122RDIW-S675D1440U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7826.7 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

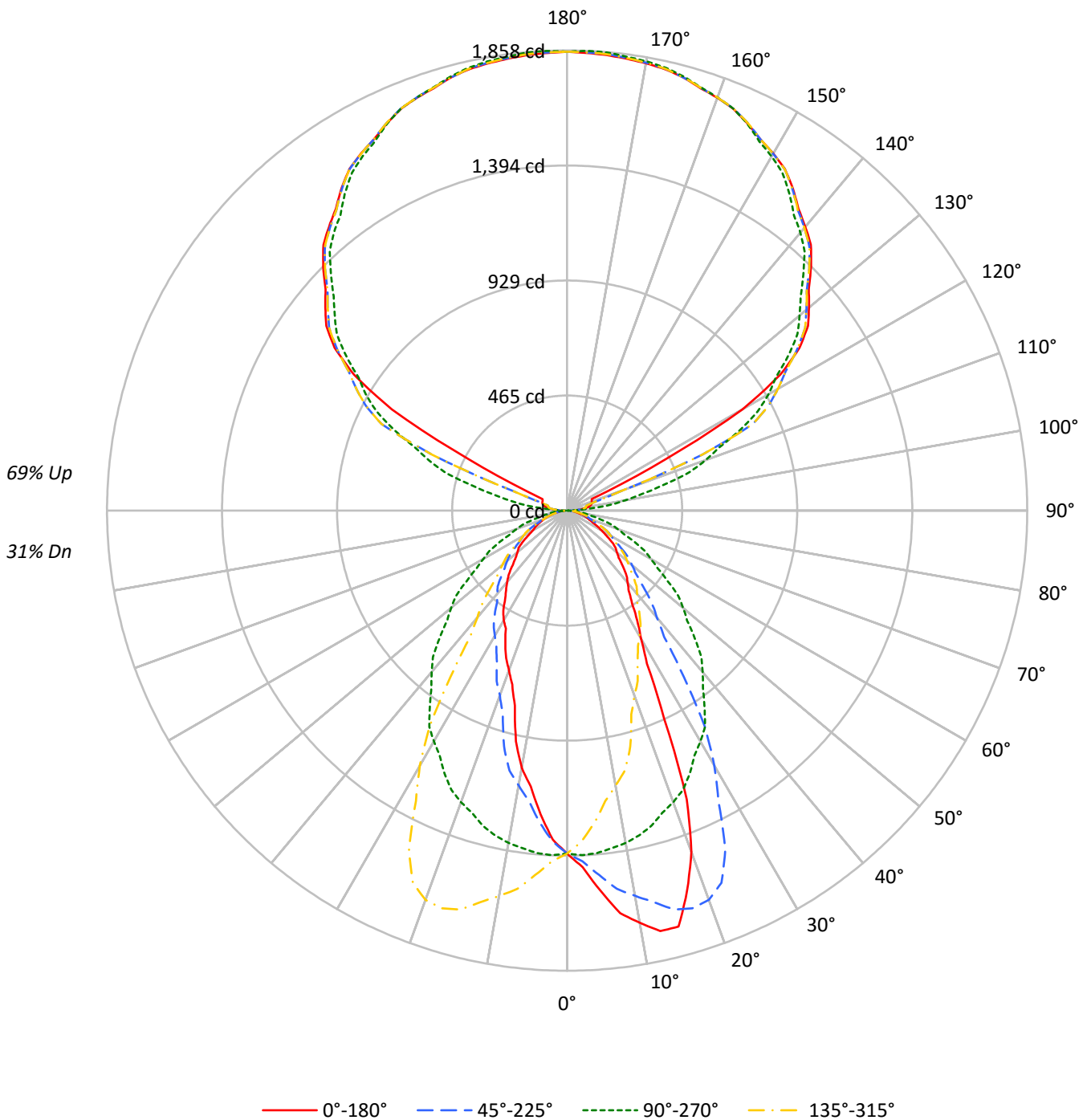
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	86	79	73	69	77	71	67	62	57	54	51	43	41	39	31	30	29	23
3	79	70	63	58	70	63	57	53	51	46	43	39	36	34	28	26	25	20
4	72	62	55	49	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	66	55	48	42	60	50	44	39	41	36	32	32	28	26	23	21	20	16
6	61	50	42	37	55	45	39	34	37	32	28	29	25	23	21	19	17	14
7	57	45	38	32	51	41	35	30	33	29	25	26	23	20	19	17	16	13
8	53	41	34	29	47	37	31	27	31	26	22	24	21	18	18	16	14	12
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11
10	46	34	28	23	41	31	25	21	26	21	18	21	17	15	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22357	22357	22357	22357
5°	24969	22498	19947	22498
10°	27702	22338	17290	22338
15°	29065	22011	13623	22011
20°	25197	21526	11789	21526
25°	16527	20861	10525	20861
30°	11123	20057	9527	20057
35°	9008	19042	8592	19042
40°	8011	17939	7950	17939
45°	7250	16643	7099	16643
50°	6599	15360	6574	15360
55°	6204	13937	6120	13937
60°	5189	12633	5125	12633
65°	4374	11469	4963	11469
70°	4046	10244	4683	10244
75°	3780	8914	4323	8914
80°	3487	7336	3849	7336
85°	3205	5798	3390	5798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.7
10°-20°	365.7	4.7
20°-30°	471.3	6.0
30°-40°	447.9	5.7
40°-50°	383.7	4.9
50°-60°	292.2	3.7
60°-70°	184.7	2.4
70°-80°	92.2	1.2
80°-90°	28.6	0.4
90°-100°	61.8	0.8
100°-110°	226.6	2.9
110°-120°	605.8	7.7
120°-130°	1000.0	12.8
130°-140°	1063.4	13.6
140°-150°	988.4	12.6
150°-160°	794.7	10.2
160°-170°	512.1	6.5
170°-180°	176.3	2.3
0°-30°	968.3	12.4
0°-40°	1416.2	18.1
0°-60°	2092.1	26.7
0°-90°	2397.6	30.6
90°-120°	894.2	11.4
90°-150°	3946.0	50.4
90°-180°	5429.0	69.4
0°-180°	7826.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1385	1385	1385	1385	1385	
5°	1541	1388	1231	1388	1541	152
15°	1739	1317	815	1317	1739	469
25°	928	1171	591	1171	928	440
35°	457	966	436	966	457	292
45°	318	729	311	729	318	246
55°	220	495	217	495	220	193
65°	114	300	130	300	114	117
75°	61	143	69	143	61	64
85°	17	31	18	31	17	20
90°	36	1	36	1	36	17
95°	58	87	58	87	58	54
105°	102	408	102	408	102	106
115°	110	771	110	771	110	275
125°	1146	1090	1146	1090	1146	992
135°	1393	1349	1393	1349	1393	1073
145°	1589	1564	1589	1564	1589	993
155°	1724	1723	1724	1723	1724	795
165°	1811	1815	1811	1815	1811	511
175°	1846	1857	1846	1857	1846	176
180°	1853	1853	1853	1853	1853	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1440.9	1442.0	1443.2	1440.5	1440.5	1438.1	1433.1	1429.4	1418.5	1417.0	1417.0
5°	1540.6	1539.5	1541.5	1535.3	1526.6	1524.7	1515.5	1503.5	1491.0	1477.1	1474.1
7.5°	1639.6	1638.2	1634.4	1633.3	1626.6	1612.1	1597.4	1581.8	1560.9	1540.7	1530.5
10°	1689.7	1705.6	1695.9	1679.1	1682.5	1659.9	1647.8	1627.2	1609.9	1579.5	1572.8
12.5°	1739.0	1745.2	1742.2	1732.6	1728.2	1712.6	1696.4	1678.4	1646.4	1619.2	1595.5
15°	1738.8	1747.9	1750.3	1747.5	1749.8	1748.9	1740.2	1725.3	1697.4	1667.5	1641.6
17.5°	1610.4	1616.7	1632.6	1643.2	1656.7	1685.2	1699.2	1704.7	1700.5	1683.6	1665.3
20°	1466.5	1455.9	1500.2	1522.8	1542.0	1590.1	1631.4	1647.4	1672.8	1672.4	1667.5
22.5°	1262.4	1265.0	1306.9	1333.8	1390.0	1438.0	1485.3	1545.0	1594.3	1626.9	1646.1
25°	927.7	945.9	987.8	1024.4	1086.8	1176.4	1257.6	1352.0	1441.0	1511.2	1578.1
27.5°	696.6	698.0	731.2	765.0	802.1	875.4	977.8	1090.4	1217.3	1322.0	1442.5
30°	596.6	593.7	607.7	628.4	660.1	716.9	793.8	904.6	1031.0	1188.8	1329.4
32.5°	525.8	525.9	536.5	551.8	578.2	616.4	669.1	759.0	878.6	1033.8	1198.4
35°	457.0	456.6	464.3	475.3	486.4	511.0	547.1	594.2	676.5	821.2	989.7
37.5°	407.8	409.9	413.7	420.6	432.8	446.5	468.2	499.8	558.4	644.0	785.6
40°	380.1	381.1	386.3	392.1	399.4	409.9	427.7	453.2	496.1	564.4	667.8
42.5°	354.7	355.6	359.4	364.8	370.4	381.1	395.8	417.8	452.5	505.9	591.2
45°	317.5	317.5	320.9	323.3	329.6	339.2	351.2	369.5	393.6	433.0	489.7
47.5°	282.7	282.8	285.0	289.2	293.1	300.6	312.5	327.3	344.9	375.4	423.9
50°	262.7	263.2	264.6	268.0	270.4	277.1	286.3	299.3	317.5	341.1	381.5
52.5°	246.6	246.2	248.1	249.5	251.2	256.0	262.8	274.3	290.6	311.1	344.6
55°	220.4	218.4	221.3	223.8	225.2	227.1	230.9	238.2	252.1	269.5	294.5
57.5°	187.7	186.9	188.9	191.1	195.7	200.9	204.1	208.7	215.9	228.4	253.2
60°	160.7	160.7	165.0	166.5	171.7	178.5	185.2	189.1	196.3	204.4	222.7
62.5°	136.9	137.2	139.2	140.7	143.6	151.9	161.4	169.8	176.6	184.5	196.6
65°	114.5	115.5	115.5	116.4	118.4	120.3	124.1	130.8	142.9	153.9	163.1
67.5°	97.2	97.5	97.7	98.7	99.2	101.3	102.8	105.8	108.7	119.1	130.4
70°	85.7	87.1	86.6	87.6	88.0	89.0	91.0	92.4	96.7	99.2	105.8
72.5°	74.8	75.9	75.8	76.4	77.7	77.9	79.4	80.9	83.6	85.7	89.3
75°	60.6	60.1	60.6	61.5	62.0	62.6	62.6	64.5	65.9	67.9	70.2
77.5°	46.8	47.2	47.1	47.2	47.3	48.2	48.1	49.0	50.4	51.4	52.5
80°	37.5	38.0	37.5	38.0	38.5	38.9	38.5	38.9	40.4	41.4	41.4
82.5°	29.0	29.1	29.4	29.5	29.6	29.7	30.4	30.5	31.6	31.4	31.8
85°	17.3	16.9	16.9	16.9	17.3	17.8	17.3	17.3	17.8	17.8	17.8
87.5°	13.4	13.7	13.6	13.4	13.3	13.1	12.8	12.9	12.2	12.3	11.4
90°	36.2	35.6	35.0	34.4	33.8	32.8	31.3	29.8	28.3	26.8	24.4
92.5°	36.2	35.8	35.4	35.2	34.8	34.2	33.5	32.6	31.9	31.1	29.9
95°	57.7	58.0	58.2	58.5	58.8	58.2	56.7	55.2	53.7	52.3	50.2
97.5°	76.9	76.6	76.3	75.9	75.5	74.7	73.5	72.4	71.2	69.9	65.1
100°	89.8	89.3	88.6	88.0	87.5	86.0	83.6	81.2	78.8	76.4	71.4
102.5°	96.2	95.4	94.5	93.8	92.9	91.0	87.8	84.7	81.6	78.5	72.9
105°	101.9	100.7	99.5	98.3	97.1	94.9	91.6	88.3	85.0	81.8	76.1
107.5°	104.8	103.7	102.5	101.2	100.1	101.1	104.4	107.8	111.1	114.5	120.0
110°	105.9	104.7	103.5	102.4	101.1	115.5	145.2	175.0	204.8	234.6	320.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	107.0	106.0	105.1	104.2	103.1	157.0	265.7	374.4	483.1	591.7	612.9
115°	109.9	131.4	152.8	174.3	195.7	275.4	413.3	551.3	689.2	827.1	819.6
117.5°	448.8	519.2	589.7	660.3	730.8	782.7	816.1	849.4	882.8	916.2	911.0
120°	817.7	857.9	898.1	938.4	978.5	996.9	993.3	989.8	986.2	982.6	977.2
122.5°	1020.4	1028.2	1036.0	1043.8	1051.6	1054.4	1052.3	1050.2	1048.0	1045.8	1040.0
125°	1146.1	1145.3	1144.3	1143.5	1142.6	1141.0	1139.0	1136.9	1134.8	1132.7	1127.1
127.5°	1225.5	1225.3	1225.1	1224.9	1224.8	1223.1	1220.1	1217.1	1214.1	1211.1	1206.8
130°	1274.8	1275.2	1275.4	1275.7	1276.0	1274.5	1271.3	1268.0	1264.7	1261.4	1258.1
132.5°	1323.0	1323.4	1323.7	1324.0	1324.3	1323.0	1320.2	1317.4	1314.7	1311.8	1308.5
135°	1392.8	1393.4	1394.0	1394.6	1395.2	1394.0	1391.0	1388.0	1385.1	1382.1	1379.4
137.5°	1456.3	1457.4	1458.4	1459.3	1460.4	1459.4	1456.5	1453.6	1450.7	1447.7	1444.7
140°	1496.0	1497.5	1499.0	1500.5	1501.9	1501.4	1498.7	1496.0	1493.4	1490.6	1487.4
142.5°	1534.6	1536.2	1537.6	1539.1	1540.6	1540.1	1537.7	1535.2	1532.8	1530.3	1526.5
145°	1588.6	1590.0	1591.5	1593.0	1594.5	1594.2	1592.0	1590.0	1587.9	1585.8	1580.7
147.5°	1636.0	1637.2	1638.5	1639.7	1641.0	1640.9	1639.3	1637.8	1636.2	1634.7	1629.7
150°	1664.9	1666.4	1667.9	1669.4	1670.8	1670.8	1669.0	1667.2	1665.4	1663.6	1658.8
152.5°	1689.6	1691.6	1693.6	1695.4	1697.4	1697.5	1695.7	1693.9	1692.1	1690.4	1685.8
155°	1723.9	1726.3	1728.7	1731.1	1733.4	1733.7	1731.9	1730.1	1728.3	1726.5	1723.1
157.5°	1755.3	1757.6	1759.9	1762.3	1764.5	1764.7	1762.6	1760.7	1758.7	1756.6	1754.1
160°	1773.5	1775.6	1777.6	1779.8	1781.9	1782.0	1780.2	1778.4	1776.6	1774.8	1773.0
162.5°	1788.6	1791.1	1793.7	1796.2	1798.7	1799.0	1797.1	1795.0	1793.0	1790.9	1789.4
165°	1811.0	1813.2	1815.2	1817.3	1819.4	1819.4	1817.3	1815.2	1813.2	1811.0	1810.2
167.5°	1825.2	1828.0	1830.6	1833.3	1836.0	1836.3	1834.2	1832.1	1830.0	1828.0	1827.1
170°	1833.8	1836.5	1839.2	1841.9	1844.6	1844.8	1842.8	1840.7	1838.6	1836.5	1835.9
172.5°	1840.2	1843.0	1845.6	1848.3	1851.0	1851.2	1849.2	1847.1	1845.0	1843.0	1842.4
175°	1845.9	1848.9	1851.8	1854.8	1857.8	1858.2	1856.1	1854.1	1852.0	1849.9	1849.4
177.5°	1849.4	1851.5	1853.7	1855.8	1857.9	1858.2	1856.5	1854.8	1853.2	1851.5	1851.2
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1417.8	1414.7	1412.0	1405.0	1401.7	1393.9	1392.8	1392.4	1382.3	1372.7	1370.1
5°	1466.5	1458.8	1447.2	1433.7	1419.8	1405.3	1395.7	1388.1	1368.8	1350.5	1339.9
7.5°	1515.5	1499.0	1479.0	1453.6	1432.3	1408.4	1390.7	1374.9	1347.6	1321.4	1303.7
10°	1552.1	1525.1	1498.7	1463.6	1436.2	1409.2	1384.2	1362.5	1331.7	1297.1	1272.5
12.5°	1574.8	1545.2	1508.7	1474.3	1438.9	1404.6	1371.1	1343.3	1307.1	1271.3	1242.2
15°	1605.5	1573.8	1529.5	1480.5	1434.7	1390.0	1351.5	1316.8	1269.7	1226.9	1191.3
17.5°	1630.6	1587.0	1539.4	1482.6	1429.7	1372.8	1323.2	1279.0	1226.5	1174.9	1132.9
20°	1638.7	1595.4	1540.6	1483.8	1421.3	1354.3	1301.0	1252.8	1196.6	1140.3	1092.1
22.5°	1633.7	1600.1	1539.0	1471.1	1407.0	1337.0	1276.7	1220.9	1158.5	1101.0	1045.2
25°	1599.8	1588.2	1530.5	1456.3	1383.3	1301.9	1232.2	1171.0	1099.9	1038.3	977.6
27.5°	1520.5	1545.5	1509.7	1430.8	1349.4	1262.3	1183.8	1114.3	1040.4	971.1	910.7
30°	1444.4	1501.6	1486.2	1413.1	1322.1	1236.5	1148.5	1075.8	996.9	925.7	866.0
32.5°	1340.0	1434.6	1449.6	1388.5	1294.4	1200.3	1108.1	1035.8	953.4	878.4	820.2
35°	1173.9	1315.4	1380.4	1341.3	1247.1	1145.6	1050.3	966.1	883.4	809.3	751.5
37.5°	975.8	1168.5	1276.7	1279.5	1192.9	1087.3	983.6	900.0	815.3	742.5	680.1
40°	847.3	1056.0	1197.0	1228.3	1155.2	1041.1	936.2	851.1	768.4	697.1	625.5
42.5°	731.8	939.8	1113.1	1167.5	1109.4	996.1	890.9	801.8	721.4	654.0	580.8
45°	591.8	773.6	964.7	1061.9	1029.6	924.7	813.6	728.9	653.4	595.1	524.9
47.5°	499.2	627.4	812.2	943.7	943.1	847.3	738.0	657.0	586.9	532.3	475.4
50°	446.5	558.1	714.4	863.7	876.1	795.8	691.8	611.5	546.1	488.8	443.1
52.5°	399.2	491.2	631.7	774.7	810.3	740.7	639.9	565.7	502.2	449.6	410.4
55°	337.2	408.5	515.3	649.0	702.9	653.8	564.4	495.1	443.6	399.4	365.6
57.5°	285.3	338.7	424.4	532.2	594.8	564.0	490.1	433.9	389.8	349.8	323.2
60°	252.6	296.3	369.0	459.0	528.3	506.6	443.6	391.2	353.6	319.0	294.0
62.5°	221.8	259.4	321.7	394.7	458.3	449.3	397.8	353.8	320.9	289.4	268.2
65°	178.5	205.9	254.5	311.8	362.8	367.1	330.1	300.2	270.9	245.8	227.1
67.5°	142.1	160.0	194.3	242.5	280.7	294.4	271.7	248.9	225.6	206.3	190.0
70°	119.8	134.2	159.3	198.2	233.4	247.8	234.8	217.0	196.8	180.9	166.9
72.5°	97.1	111.1	129.6	158.2	188.3	203.9	199.3	186.6	170.2	157.0	143.8
75°	73.1	77.5	90.0	109.2	132.8	146.3	149.7	142.9	129.9	119.8	112.1
77.5°	54.1	56.6	62.7	72.8	88.1	100.2	105.1	104.3	95.4	89.4	82.3
80°	43.3	44.8	47.6	51.9	63.5	75.5	78.9	78.9	72.7	70.2	63.1
82.5°	32.9	33.9	35.7	38.1	43.5	54.0	57.8	58.5	54.6	51.4	45.7
85°	18.8	18.3	19.2	20.6	21.7	24.5	30.3	31.3	30.3	26.5	25.0
87.5°	10.9	10.8	10.4	9.4	9.1	8.9	10.2	11.4	10.6	10.1	9.9
90°	22.1	19.7	17.2	14.4	11.2	7.9	4.6	1.3	4.6	7.9	11.2
92.5°	28.7	27.5	26.3	25.9	26.2	26.5	26.8	27.1	26.8	26.5	26.2
95°	48.1	46.0	43.9	47.8	57.7	67.5	77.3	87.1	77.3	67.5	57.7
97.5°	60.3	55.5	50.7	62.1	89.8	117.5	145.2	173.0	145.2	117.5	89.8
100°	66.3	61.2	56.2	74.0	114.8	155.6	196.4	237.2	196.4	155.6	114.8
102.5°	163.2	205.7	248.0	273.5	282.1	290.8	299.4	308.0	299.4	290.8	282.1
105°	244.4	325.7	407.1	443.3	434.3	425.4	416.4	407.6	416.4	425.4	434.3
107.5°	309.5	407.1	504.6	549.8	542.5	535.4	528.1	520.9	528.1	535.4	542.5
110°	406.8	492.9	578.9	618.9	612.7	606.3	600.1	593.9	600.1	606.3	612.7



TEST NUMBER: P331821-830

CATALOG NUMBER: S122RDIW-S675D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	634.2	655.5	676.7	684.7	679.1	673.5	668.0	662.5	668.0	673.5	679.1
115°	812.2	804.7	797.3	791.1	786.0	780.9	775.9	770.8	775.9	780.9	786.0
117.5°	905.9	900.7	895.6	890.2	884.6	878.9	873.3	867.6	873.3	878.9	884.6
120°	971.9	966.5	961.1	956.2	951.8	947.3	942.8	938.4	942.8	947.3	951.8
122.5°	1034.2	1028.3	1022.6	1017.3	1012.6	1007.9	1003.1	998.4	1003.1	1007.9	1012.6
125°	1121.4	1115.8	1110.1	1105.3	1101.5	1097.6	1093.7	1089.9	1093.7	1097.6	1101.5
127.5°	1202.6	1198.3	1194.1	1189.9	1185.5	1181.3	1177.0	1172.7	1177.0	1181.3	1185.5
130°	1254.9	1251.6	1248.3	1244.3	1239.5	1234.7	1230.0	1225.2	1230.0	1234.7	1239.5
132.5°	1305.2	1302.0	1298.7	1295.1	1291.0	1286.9	1282.9	1278.8	1282.9	1286.9	1291.0
135°	1376.7	1374.0	1371.3	1367.6	1362.8	1358.1	1353.3	1348.6	1353.3	1358.1	1362.8
137.5°	1441.7	1438.6	1435.6	1432.4	1429.1	1425.8	1422.4	1419.1	1422.4	1425.8	1429.1
140°	1484.1	1480.8	1477.5	1474.7	1472.3	1470.0	1467.5	1465.2	1467.5	1470.0	1472.3
142.5°	1522.9	1519.1	1515.3	1512.4	1510.2	1508.1	1505.9	1503.8	1505.9	1508.1	1510.2
145°	1575.7	1570.7	1565.6	1563.2	1563.5	1563.8	1564.1	1564.4	1564.1	1563.8	1563.5
147.5°	1624.7	1619.6	1614.6	1612.7	1613.8	1615.0	1616.1	1617.2	1616.1	1615.0	1613.8
150°	1654.1	1649.3	1644.5	1643.1	1645.3	1647.4	1649.4	1651.5	1649.4	1647.4	1645.3
152.5°	1681.3	1676.8	1672.3	1671.2	1673.5	1675.8	1678.2	1680.5	1678.2	1675.8	1673.5
155°	1719.5	1715.9	1712.3	1711.8	1714.5	1717.2	1719.9	1722.6	1719.9	1717.2	1714.5
157.5°	1751.6	1749.1	1746.6	1746.5	1748.8	1751.1	1753.3	1755.6	1753.3	1751.1	1748.8
160°	1771.3	1769.5	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8	1773.0	1771.3	1769.5
162.5°	1787.8	1786.3	1784.7	1784.9	1786.7	1788.5	1790.3	1792.0	1790.3	1788.5	1786.7
165°	1809.2	1808.4	1807.5	1807.9	1809.7	1811.5	1813.3	1815.1	1813.3	1811.5	1809.7
167.5°	1826.3	1825.4	1824.6	1825.0	1826.8	1828.6	1830.4	1832.2	1830.4	1828.6	1826.8
170°	1835.3	1834.8	1834.1	1834.8	1836.5	1838.3	1840.1	1841.9	1840.1	1838.3	1836.5
172.5°	1841.7	1841.2	1840.6	1841.2	1843.0	1844.7	1846.5	1848.3	1846.5	1844.7	1843.0
175°	1848.7	1848.1	1847.6	1848.3	1850.4	1852.5	1854.5	1856.6	1854.5	1852.5	1850.4
177.5°	1851.1	1850.8	1850.6	1851.2	1852.9	1854.6	1856.3	1857.9	1856.3	1854.6	1852.9
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331821-830

CATALOG NUMBER: S122RDIW-S675D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1365.1	1362.4	1357.4	1349.6	1345.0	1336.9	1331.5	1334.6	1335.4	1334.6	1333.9
5°	1328.4	1318.2	1304.3	1290.8	1278.4	1264.9	1257.2	1253.8	1247.1	1243.2	1241.3
7.5°	1284.0	1266.6	1246.9	1223.4	1203.4	1182.6	1172.0	1166.6	1152.8	1145.4	1138.8
10°	1250.9	1223.5	1203.8	1173.0	1154.2	1126.8	1108.1	1108.5	1089.8	1079.1	1071.5
12.5°	1214.4	1184.2	1151.4	1123.7	1097.6	1075.6	1053.0	1043.9	1023.9	1013.7	993.0
15°	1153.8	1118.6	1084.0	1046.4	1020.0	985.8	953.1	913.1	880.9	853.0	845.4
17.5°	1087.5	1044.1	1009.3	965.3	919.9	862.4	824.5	801.3	781.9	767.2	756.2
20°	1042.1	997.9	960.8	894.4	833.3	794.4	766.5	748.7	728.4	712.6	703.9
22.5°	994.4	948.2	897.7	823.6	776.0	744.7	719.8	699.4	685.7	673.3	665.4
25°	926.6	876.1	792.9	741.9	703.4	670.7	653.4	640.8	626.4	609.5	601.9
27.5°	855.1	774.7	714.9	677.0	640.3	619.0	603.4	584.8	571.8	564.3	556.3
30°	801.5	721.2	674.6	633.2	607.2	583.6	565.3	554.8	542.2	529.2	524.0
32.5°	741.9	677.7	633.0	598.5	572.1	552.0	537.6	520.5	511.4	503.4	492.4
35°	667.8	619.3	578.3	550.4	525.4	509.1	492.2	482.1	465.7	459.0	454.7
37.5°	605.0	562.9	532.4	502.9	483.1	465.1	454.8	438.7	431.6	422.3	413.1
40°	569.7	528.3	498.9	474.9	452.7	439.2	426.3	413.3	402.7	398.4	387.3
42.5°	533.5	499.8	470.4	444.0	429.2	415.0	398.6	389.1	378.1	371.1	364.2
45°	483.5	453.7	428.7	407.0	390.7	375.8	365.1	349.3	343.1	329.0	323.3
47.5°	439.7	411.9	388.0	367.5	351.5	341.8	326.3	313.9	303.9	295.3	287.9
50°	408.5	385.4	362.3	344.0	329.6	315.7	299.7	293.5	278.1	273.7	269.5
52.5°	380.0	358.1	336.9	319.0	304.5	291.0	277.0	268.8	258.4	254.1	251.0
55°	340.2	319.0	298.8	282.9	268.4	254.5	245.8	235.7	230.9	227.5	223.8
57.5°	300.1	281.1	265.6	249.5	235.0	223.9	213.9	207.8	202.8	198.4	193.8
60°	274.8	256.5	242.5	227.5	212.6	203.5	195.9	188.6	182.9	176.1	174.2
62.5°	247.8	231.8	219.0	204.4	191.5	183.1	175.8	169.0	162.0	152.2	149.5
65°	210.8	198.2	184.7	172.8	161.2	153.0	142.4	134.7	131.9	130.8	130.4
67.5°	177.3	165.4	153.8	141.6	131.0	123.5	118.1	116.9	114.9	114.3	113.0
70°	155.0	143.8	132.3	120.7	110.7	109.2	107.3	105.4	102.9	102.0	101.0
72.5°	134.9	123.5	111.9	102.6	98.3	96.5	94.6	92.7	91.0	90.1	89.4
75°	103.4	92.8	85.2	81.8	79.4	77.9	75.0	73.6	72.7	71.2	70.7
77.5°	74.5	68.5	64.9	62.9	60.3	58.8	57.1	55.7	54.7	54.4	53.6
80°	56.7	53.9	51.5	48.6	47.6	45.7	45.2	43.8	44.3	42.8	42.8
82.5°	44.1	40.4	38.4	37.0	36.1	34.6	34.0	33.4	33.5	32.4	32.4
85°	22.6	21.7	20.6	19.7	19.7	18.3	18.8	18.3	18.3	17.3	16.9
87.5°	10.2	10.4	10.1	10.6	11.0	11.1	11.4	11.3	11.7	12.0	11.8
90°	14.4	17.2	19.7	22.1	24.4	26.8	28.3	29.8	31.3	32.8	33.8
92.5°	25.9	26.3	27.5	28.7	29.9	31.1	31.9	32.6	33.5	34.2	34.8
95°	47.8	43.9	46.0	48.1	50.2	52.3	53.7	55.2	56.7	58.2	58.8
97.5°	62.1	50.7	55.5	60.3	65.1	69.9	71.2	72.4	73.5	74.7	75.5
100°	74.0	56.2	61.2	66.3	71.4	76.4	78.8	81.2	83.6	86.0	87.5
102.5°	273.5	248.0	205.7	163.2	120.9	78.5	81.6	84.7	87.8	91.0	92.9
105°	443.3	407.1	325.7	244.4	163.1	81.8	85.0	88.3	91.6	94.9	97.1
107.5°	549.8	504.6	407.1	309.5	212.0	114.5	111.1	107.8	104.4	101.1	100.1
110°	618.9	578.9	492.9	406.8	320.7	234.6	204.8	175.0	145.2	115.5	101.1



TEST NUMBER: P331821-830

CATALOG NUMBER: S122RDIW-S675D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	684.7	676.7	655.5	634.2	612.9	591.7	483.1	374.4	265.7	157.0	103.1
115°	791.1	797.3	804.7	812.2	819.6	827.1	689.2	551.3	413.3	275.4	195.7
117.5°	890.2	895.6	900.7	905.9	911.0	916.2	882.8	849.4	816.1	782.7	730.8
120°	956.2	961.1	966.5	971.9	977.2	982.6	986.2	989.8	993.3	996.9	978.5
122.5°	1017.3	1022.6	1028.3	1034.2	1040.0	1045.8	1048.0	1050.2	1052.3	1054.4	1051.6
125°	1105.3	1110.1	1115.8	1121.4	1127.1	1132.7	1134.8	1136.9	1139.0	1141.0	1142.6
127.5°	1189.9	1194.1	1198.3	1202.6	1206.8	1211.1	1214.1	1217.1	1220.1	1223.1	1224.8
130°	1244.3	1248.3	1251.6	1254.9	1258.1	1261.4	1264.7	1268.0	1271.3	1274.5	1276.0
132.5°	1295.1	1298.7	1302.0	1305.2	1308.5	1311.8	1314.7	1317.4	1320.2	1323.0	1324.3
135°	1367.6	1371.3	1374.0	1376.7	1379.4	1382.1	1385.1	1388.0	1391.0	1394.0	1395.2
137.5°	1432.4	1435.6	1438.6	1441.7	1444.7	1447.7	1450.7	1453.6	1456.5	1459.4	1460.4
140°	1474.7	1477.5	1480.8	1484.1	1487.4	1490.6	1493.4	1496.0	1498.7	1501.4	1501.9
142.5°	1512.4	1515.3	1519.1	1522.9	1526.5	1530.3	1532.8	1535.2	1537.7	1540.1	1540.6
145°	1563.2	1565.6	1570.7	1575.7	1580.7	1585.8	1587.9	1590.0	1592.0	1594.2	1594.5
147.5°	1612.7	1614.6	1619.6	1624.7	1629.7	1634.7	1636.2	1637.8	1639.3	1640.9	1641.0
150°	1643.1	1644.5	1649.3	1654.1	1658.8	1663.6	1665.4	1667.2	1669.0	1670.8	1670.8
152.5°	1671.2	1672.3	1676.8	1681.3	1685.8	1690.4	1692.1	1693.9	1695.7	1697.5	1697.4
155°	1711.8	1712.3	1715.9	1719.5	1723.1	1726.5	1728.3	1730.1	1731.9	1733.7	1733.4
157.5°	1746.5	1746.6	1749.1	1751.6	1754.1	1756.6	1758.7	1760.7	1762.6	1764.7	1764.5
160°	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8	1776.6	1778.4	1780.2	1782.0	1781.9
162.5°	1784.9	1784.7	1786.3	1787.8	1789.4	1790.9	1793.0	1795.0	1797.1	1799.0	1798.7
165°	1807.9	1807.5	1808.4	1809.2	1810.2	1811.0	1813.2	1815.2	1817.3	1819.4	1819.4
167.5°	1825.0	1824.6	1825.4	1826.3	1827.1	1828.0	1830.0	1832.1	1834.2	1836.3	1836.0
170°	1834.8	1834.1	1834.8	1835.3	1835.9	1836.5	1838.6	1840.7	1842.8	1844.8	1844.6
172.5°	1841.2	1840.6	1841.2	1841.7	1842.4	1843.0	1845.0	1847.1	1849.2	1851.2	1851.0
175°	1848.3	1847.6	1848.1	1848.7	1849.4	1849.9	1852.0	1854.1	1856.1	1858.2	1857.8
177.5°	1851.2	1850.6	1850.8	1851.1	1851.2	1851.5	1853.2	1854.8	1856.5	1858.2	1857.9
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331821-830

CATALOG NUMBER: S122RDIW-S675D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1329.6	1330.4	1329.3	1330.0	1329.3	1330.4	1329.6	1333.9	1334.6	1335.4	1334.6
5°	1238.9	1233.1	1232.2	1230.7	1232.2	1233.1	1238.9	1241.3	1243.2	1247.1	1253.8
7.5°	1130.6	1129.6	1127.3	1123.9	1127.3	1129.6	1130.6	1138.8	1145.4	1152.8	1166.6
10°	1060.8	1058.5	1058.0	1054.6	1058.0	1058.5	1060.8	1071.5	1079.1	1089.8	1108.5
12.5°	979.3	963.7	962.1	953.8	962.1	963.7	979.3	993.0	1013.7	1023.9	1043.9
15°	833.8	830.9	821.2	815.0	821.2	830.9	833.8	845.4	853.0	880.9	913.1
17.5°	750.6	741.2	738.2	736.9	738.2	741.2	750.6	756.2	767.2	781.9	801.3
20°	697.1	688.5	687.0	686.1	687.0	688.5	697.1	703.9	712.6	728.4	748.7
22.5°	660.2	651.1	647.4	644.5	647.4	651.1	660.2	665.4	673.3	685.7	699.4
25°	597.1	593.7	591.8	590.8	591.8	593.7	597.1	601.9	609.5	626.4	640.8
27.5°	547.7	540.3	538.9	536.4	538.9	540.3	547.7	556.3	564.3	571.8	584.8
30°	519.6	517.2	513.9	511.0	513.9	517.2	519.6	524.0	529.2	542.2	554.8
32.5°	486.5	484.5	481.5	480.1	481.5	484.5	486.5	492.4	503.4	511.4	520.5
35°	449.9	443.1	440.3	435.9	440.3	443.1	449.9	454.7	459.0	465.7	482.1
37.5°	411.0	407.6	403.5	404.9	403.5	407.6	411.0	413.1	422.3	431.6	438.7
40°	381.1	378.6	377.7	377.2	377.7	378.6	381.1	387.3	398.4	402.7	413.3
42.5°	357.2	350.5	348.1	348.0	348.1	350.5	357.2	364.2	371.1	378.1	389.1
45°	320.9	314.6	310.3	310.9	310.3	314.6	320.9	323.3	329.0	343.1	349.3
47.5°	283.8	283.6	280.9	281.7	280.9	283.6	283.8	287.9	295.3	303.9	313.9
50°	266.1	263.2	261.3	261.7	261.3	263.2	266.1	269.5	273.7	278.1	293.5
52.5°	249.1	246.7	245.1	247.1	245.1	246.7	249.1	251.0	254.1	258.4	268.8
55°	221.3	218.4	217.9	217.4	217.9	218.4	221.3	223.8	227.5	230.9	235.7
57.5°	190.2	188.3	185.4	184.2	185.4	188.3	190.2	193.8	198.4	202.8	207.8
60°	167.9	164.1	159.3	158.7	159.3	164.1	167.9	174.2	176.1	182.9	188.6
62.5°	147.5	146.8	145.8	145.7	145.8	146.8	147.5	149.5	152.2	162.0	169.0
65°	129.4	128.9	129.4	129.9	129.4	128.9	129.4	130.4	130.8	131.9	134.7
67.5°	112.8	111.9	111.0	111.4	111.0	111.9	112.8	113.0	114.3	114.9	116.9
70°	100.1	99.6	99.2	99.2	99.2	99.6	100.1	101.0	102.0	102.9	105.4
72.5°	87.8	87.7	87.2	86.8	87.2	87.7	87.8	89.4	90.1	91.0	92.7
75°	70.2	69.3	69.3	69.3	69.3	69.3	70.2	70.7	71.2	72.7	73.6
77.5°	53.5	53.1	52.5	52.1	52.5	53.1	53.5	53.6	54.4	54.7	55.7
80°	42.3	41.8	41.4	41.4	41.4	41.8	42.3	42.8	42.8	44.3	43.8
82.5°	32.3	31.9	31.8	31.4	31.8	31.9	32.3	32.4	32.4	33.5	33.4
85°	17.3	17.8	17.3	18.3	17.3	17.8	17.3	16.9	17.3	18.3	18.3
87.5°	11.9	11.6	12.2	11.9	12.2	11.6	11.9	11.8	12.0	11.7	11.3
90°	34.4	35.0	35.6	36.2	35.6	35.0	34.4	33.8	32.8	31.3	29.8
92.5°	35.2	35.4	35.8	36.2	35.8	35.4	35.2	34.8	34.2	33.5	32.6
95°	58.5	58.2	58.0	57.7	58.0	58.2	58.5	58.8	58.2	56.7	55.2
97.5°	75.9	76.3	76.6	76.9	76.6	76.3	75.9	75.5	74.7	73.5	72.4
100°	88.0	88.6	89.3	89.8	89.3	88.6	88.0	87.5	86.0	83.6	81.2
102.5°	93.8	94.5	95.4	96.2	95.4	94.5	93.8	92.9	91.0	87.8	84.7
105°	98.3	99.5	100.7	101.9	100.7	99.5	98.3	97.1	94.9	91.6	88.3
107.5°	101.2	102.5	103.7	104.8	103.7	102.5	101.2	100.1	101.1	104.4	107.8
110°	102.4	103.5	104.7	105.9	104.7	103.5	102.4	101.1	115.5	145.2	175.0



TEST NUMBER: P331821-830

CATALOG NUMBER: S122RDIW-S675D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	104.2	105.1	106.0	107.0	106.0	105.1	104.2	103.1	157.0	265.7	374.4
115°	174.3	152.8	131.4	109.9	131.4	152.8	174.3	195.7	275.4	413.3	551.3
117.5°	660.3	589.7	519.2	448.8	519.2	589.7	660.3	730.8	782.7	816.1	849.4
120°	938.4	898.1	857.9	817.7	857.9	898.1	938.4	978.5	996.9	993.3	989.8
122.5°	1043.8	1036.0	1028.2	1020.4	1028.2	1036.0	1043.8	1051.6	1054.4	1052.3	1050.2
125°	1143.5	1144.3	1145.3	1146.1	1145.3	1144.3	1143.5	1142.6	1141.0	1139.0	1136.9
127.5°	1224.9	1225.1	1225.3	1225.5	1225.3	1225.1	1224.9	1224.8	1223.1	1220.1	1217.1
130°	1275.7	1275.4	1275.2	1274.8	1275.2	1275.4	1275.7	1276.0	1274.5	1271.3	1268.0
132.5°	1324.0	1323.7	1323.4	1323.0	1323.4	1323.7	1324.0	1324.3	1323.0	1320.2	1317.4
135°	1394.6	1394.0	1393.4	1392.8	1393.4	1394.0	1394.6	1395.2	1394.0	1391.0	1388.0
137.5°	1459.3	1458.4	1457.4	1456.3	1457.4	1458.4	1459.3	1460.4	1459.4	1456.5	1453.6
140°	1500.5	1499.0	1497.5	1496.0	1497.5	1499.0	1500.5	1501.9	1501.4	1498.7	1496.0
142.5°	1539.1	1537.6	1536.2	1534.6	1536.2	1537.6	1539.1	1540.6	1540.1	1537.7	1535.2
145°	1593.0	1591.5	1590.0	1588.6	1590.0	1591.5	1593.0	1594.5	1594.2	1592.0	1590.0
147.5°	1639.7	1638.5	1637.2	1636.0	1637.2	1638.5	1639.7	1641.0	1640.9	1639.3	1637.8
150°	1669.4	1667.9	1666.4	1664.9	1666.4	1667.9	1669.4	1670.8	1670.8	1669.0	1667.2
152.5°	1695.4	1693.6	1691.6	1689.6	1691.6	1693.6	1695.4	1697.4	1697.5	1695.7	1693.9
155°	1731.1	1728.7	1726.3	1723.9	1726.3	1728.7	1731.1	1733.4	1733.7	1731.9	1730.1
157.5°	1762.3	1759.9	1757.6	1755.3	1757.6	1759.9	1762.3	1764.5	1764.7	1762.6	1760.7
160°	1779.8	1777.6	1775.6	1773.5	1775.6	1777.6	1779.8	1781.9	1782.0	1780.2	1778.4
162.5°	1796.2	1793.7	1791.1	1788.6	1791.1	1793.7	1796.2	1798.7	1799.0	1797.1	1795.0
165°	1817.3	1815.2	1813.2	1811.0	1813.2	1815.2	1817.3	1819.4	1819.4	1817.3	1815.2
167.5°	1833.3	1830.6	1828.0	1825.2	1828.0	1830.6	1833.3	1836.0	1836.3	1834.2	1832.1
170°	1841.9	1839.2	1836.5	1833.8	1836.5	1839.2	1841.9	1844.6	1844.8	1842.8	1840.7
172.5°	1848.3	1845.6	1843.0	1840.2	1843.0	1845.6	1848.3	1851.0	1851.2	1849.2	1847.1
175°	1854.8	1851.8	1848.9	1845.9	1848.9	1851.8	1854.8	1857.8	1858.2	1856.1	1854.1
177.5°	1855.8	1853.7	1851.5	1849.4	1851.5	1853.7	1855.8	1857.9	1858.2	1856.5	1854.8
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331821-830

CATALOG NUMBER: S122RDIW-S675D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1331.5	1336.9	1345.0	1349.6	1357.4	1362.4	1365.1	1370.1	1372.7	1382.3	1392.4
5°	1257.2	1264.9	1278.4	1290.8	1304.3	1318.2	1328.4	1339.9	1350.5	1368.8	1388.1
7.5°	1172.0	1182.6	1203.4	1223.4	1246.9	1266.6	1284.0	1303.7	1321.4	1347.6	1374.9
10°	1108.1	1126.8	1154.2	1173.0	1203.8	1223.5	1250.9	1272.5	1297.1	1331.7	1362.5
12.5°	1053.0	1075.6	1097.6	1123.7	1151.4	1184.2	1214.4	1242.2	1271.3	1307.1	1343.3
15°	953.1	985.8	1020.0	1046.4	1084.0	1118.6	1153.8	1191.3	1226.9	1269.7	1316.8
17.5°	824.5	862.4	919.9	965.3	1009.3	1044.1	1087.5	1132.9	1174.9	1226.5	1279.0
20°	766.5	794.4	833.3	894.4	960.8	997.9	1042.1	1092.1	1140.3	1196.6	1252.8
22.5°	719.8	744.7	776.0	823.6	897.7	948.2	994.4	1045.2	1101.0	1158.5	1220.9
25°	653.4	670.7	703.4	741.9	792.9	876.1	926.6	977.6	1038.3	1099.9	1171.0
27.5°	603.4	619.0	640.3	677.0	714.9	774.7	855.1	910.7	971.1	1040.4	1114.3
30°	565.3	583.6	607.2	633.2	674.6	721.2	801.5	866.0	925.7	996.9	1075.8
32.5°	537.6	552.0	572.1	598.5	633.0	677.7	741.9	820.2	878.4	953.4	1035.8
35°	492.2	509.1	525.4	550.4	578.3	619.3	667.8	751.5	809.3	883.4	966.1
37.5°	454.8	465.1	483.1	502.9	532.4	562.9	605.0	680.1	742.5	815.3	900.0
40°	426.3	439.2	452.7	474.9	498.9	528.3	569.7	625.5	697.1	768.4	851.1
42.5°	398.6	415.0	429.2	444.0	470.4	499.8	533.5	580.8	654.0	721.4	801.8
45°	365.1	375.8	390.7	407.0	428.7	453.7	483.5	524.9	595.1	653.4	728.9
47.5°	326.3	341.8	351.5	367.5	388.0	411.9	439.7	475.4	532.3	586.9	657.0
50°	299.7	315.7	329.6	344.0	362.3	385.4	408.5	443.1	488.8	546.1	611.5
52.5°	277.0	291.0	304.5	319.0	336.9	358.1	380.0	410.4	449.6	502.2	565.7
55°	245.8	254.5	268.4	282.9	298.8	319.0	340.2	365.6	399.4	443.6	495.1
57.5°	213.9	223.9	235.0	249.5	265.6	281.1	300.1	323.2	349.8	389.8	433.9
60°	195.9	203.5	212.6	227.5	242.5	256.5	274.8	294.0	319.0	353.6	391.2
62.5°	175.8	183.1	191.5	204.4	219.0	231.8	247.8	268.2	289.4	320.9	353.8
65°	142.4	153.0	161.2	172.8	184.7	198.2	210.8	227.1	245.8	270.9	300.2
67.5°	118.1	123.5	131.0	141.6	153.8	165.4	177.3	190.0	206.3	225.6	248.9
70°	107.3	109.2	110.7	120.7	132.3	143.8	155.0	166.9	180.9	196.8	217.0
72.5°	94.6	96.5	98.3	102.6	111.9	123.5	134.9	143.8	157.0	170.2	186.6
75°	75.0	77.9	79.4	81.8	85.2	92.8	103.4	112.1	119.8	129.9	142.9
77.5°	57.1	58.8	60.3	62.9	64.9	68.5	74.5	82.3	89.4	95.4	104.3
80°	45.2	45.7	47.6	48.6	51.5	53.9	56.7	63.1	70.2	72.7	78.9
82.5°	34.0	34.6	36.1	37.0	38.4	40.4	44.1	45.7	51.4	54.6	58.5
85°	18.8	18.3	19.7	19.7	20.6	21.7	22.6	25.0	26.5	30.3	31.3
87.5°	11.4	11.1	11.0	10.6	10.1	10.4	10.2	9.9	10.1	10.6	11.4
90°	28.3	26.8	24.4	22.1	19.7	17.2	14.4	11.2	7.9	4.6	1.3
92.5°	31.9	31.1	29.9	28.7	27.5	26.3	25.9	26.2	26.5	26.8	27.1
95°	53.7	52.3	50.2	48.1	46.0	43.9	47.8	57.7	67.5	77.3	87.1
97.5°	71.2	69.9	65.1	60.3	55.5	50.7	62.1	89.8	117.5	145.2	173.0
100°	78.8	76.4	71.4	66.3	61.2	56.2	74.0	114.8	155.6	196.4	237.2
102.5°	81.6	78.5	120.9	163.2	205.7	248.0	273.5	282.1	290.8	299.4	308.0
105°	85.0	81.8	163.1	244.4	325.7	407.1	443.3	434.3	425.4	416.4	407.6
107.5°	111.1	114.5	212.0	309.5	407.1	504.6	549.8	542.5	535.4	528.1	520.9
110°	204.8	234.6	320.7	406.8	492.9	578.9	618.9	612.7	606.3	600.1	593.9



TEST NUMBER: P331821-830

CATALOG NUMBER: S122RDIW-S675D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	483.1	591.7	612.9	634.2	655.5	676.7	684.7	679.1	673.5	668.0	662.5
115°	689.2	827.1	819.6	812.2	804.7	797.3	791.1	786.0	780.9	775.9	770.8
117.5°	882.8	916.2	911.0	905.9	900.7	895.6	890.2	884.6	878.9	873.3	867.6
120°	986.2	982.6	977.2	971.9	966.5	961.1	956.2	951.8	947.3	942.8	938.4
122.5°	1048.0	1045.8	1040.0	1034.2	1028.3	1022.6	1017.3	1012.6	1007.9	1003.1	998.4
125°	1134.8	1132.7	1127.1	1121.4	1115.8	1110.1	1105.3	1101.5	1097.6	1093.7	1089.9
127.5°	1214.1	1211.1	1206.8	1202.6	1198.3	1194.1	1189.9	1185.5	1181.3	1177.0	1172.7
130°	1264.7	1261.4	1258.1	1254.9	1251.6	1248.3	1244.3	1239.5	1234.7	1230.0	1225.2
132.5°	1314.7	1311.8	1308.5	1305.2	1302.0	1298.7	1295.1	1291.0	1286.9	1282.9	1278.8
135°	1385.1	1382.1	1379.4	1376.7	1374.0	1371.3	1367.6	1362.8	1358.1	1353.3	1348.6
137.5°	1450.7	1447.7	1444.7	1441.7	1438.6	1435.6	1432.4	1429.1	1425.8	1422.4	1419.1
140°	1493.4	1490.6	1487.4	1484.1	1480.8	1477.5	1474.7	1472.3	1470.0	1467.5	1465.2
142.5°	1532.8	1530.3	1526.5	1522.9	1519.1	1515.3	1512.4	1510.2	1508.1	1505.9	1503.8
145°	1587.9	1585.8	1580.7	1575.7	1570.7	1565.6	1563.2	1563.5	1563.8	1564.1	1564.4
147.5°	1636.2	1634.7	1629.7	1624.7	1619.6	1614.6	1612.7	1613.8	1615.0	1616.1	1617.2
150°	1665.4	1663.6	1658.8	1654.1	1649.3	1644.5	1643.1	1645.3	1647.4	1649.4	1651.5
152.5°	1692.1	1690.4	1685.8	1681.3	1676.8	1672.3	1671.2	1673.5	1675.8	1678.2	1680.5
155°	1728.3	1726.5	1723.1	1719.5	1715.9	1712.3	1711.8	1714.5	1717.2	1719.9	1722.6
157.5°	1758.7	1756.6	1754.1	1751.6	1749.1	1746.6	1746.5	1748.8	1751.1	1753.3	1755.6
160°	1776.6	1774.8	1773.0	1771.3	1769.5	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8
162.5°	1793.0	1790.9	1789.4	1787.8	1786.3	1784.7	1784.9	1786.7	1788.5	1790.3	1792.0
165°	1813.2	1811.0	1810.2	1809.2	1808.4	1807.5	1807.9	1809.7	1811.5	1813.3	1815.1
167.5°	1830.0	1828.0	1827.1	1826.3	1825.4	1824.6	1825.0	1826.8	1828.6	1830.4	1832.2
170°	1838.6	1836.5	1835.9	1835.3	1834.8	1834.1	1834.8	1836.5	1838.3	1840.1	1841.9
172.5°	1845.0	1843.0	1842.4	1841.7	1841.2	1840.6	1841.2	1843.0	1844.7	1846.5	1848.3
175°	1852.0	1849.9	1849.4	1848.7	1848.1	1847.6	1848.3	1850.4	1852.5	1854.5	1856.6
177.5°	1853.2	1851.5	1851.2	1851.1	1850.8	1850.6	1851.2	1852.9	1854.6	1856.3	1857.9
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331821-830

CATALOG NUMBER: S122RDIW-S675D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1392.8	1393.9	1401.7	1405.0	1412.0	1414.7	1417.8	1417.0	1417.0	1418.5	1429.4
5°	1395.7	1405.3	1419.8	1433.7	1447.2	1458.8	1466.5	1474.1	1477.1	1491.0	1503.5
7.5°	1390.7	1408.4	1432.3	1453.6	1479.0	1499.0	1515.5	1530.5	1540.7	1560.9	1581.8
10°	1384.2	1409.2	1436.2	1463.6	1498.7	1525.1	1552.1	1572.8	1579.5	1609.9	1627.2
12.5°	1371.1	1404.6	1438.9	1474.3	1508.7	1545.2	1574.8	1595.5	1619.2	1646.4	1678.4
15°	1351.5	1390.0	1434.7	1480.5	1529.5	1573.8	1605.5	1641.6	1667.5	1697.4	1725.3
17.5°	1323.2	1372.8	1429.7	1482.6	1539.4	1587.0	1630.6	1665.3	1683.6	1700.5	1704.7
20°	1301.0	1354.3	1421.3	1483.8	1540.6	1595.4	1638.7	1667.5	1672.4	1672.8	1647.4
22.5°	1276.7	1337.0	1407.0	1471.1	1539.0	1600.1	1633.7	1646.1	1626.9	1594.3	1545.0
25°	1232.2	1301.9	1383.3	1456.3	1530.5	1588.2	1599.8	1578.1	1511.2	1441.0	1352.0
27.5°	1183.8	1262.3	1349.4	1430.8	1509.7	1545.5	1520.5	1442.5	1322.0	1217.3	1090.4
30°	1148.5	1236.5	1322.1	1413.1	1486.2	1501.6	1444.4	1329.4	1188.8	1031.0	904.6
32.5°	1108.1	1200.3	1294.4	1388.5	1449.6	1434.6	1340.0	1198.4	1033.8	878.6	759.0
35°	1050.3	1145.6	1247.1	1341.3	1380.4	1315.4	1173.9	989.7	821.2	676.5	594.2
37.5°	983.6	1087.3	1192.9	1279.5	1276.7	1168.5	975.8	785.6	644.0	558.4	499.8
40°	936.2	1041.1	1155.2	1228.3	1197.0	1056.0	847.3	667.8	564.4	496.1	453.2
42.5°	890.9	996.1	1109.4	1167.5	1113.1	939.8	731.8	591.2	505.9	452.5	417.8
45°	813.6	924.7	1029.6	1061.9	964.7	773.6	591.8	489.7	433.0	393.6	369.5
47.5°	738.0	847.3	943.1	943.7	812.2	627.4	499.2	423.9	375.4	344.9	327.3
50°	691.8	795.8	876.1	863.7	714.4	558.1	446.5	381.5	341.1	317.5	299.3
52.5°	639.9	740.7	810.3	774.7	631.7	491.2	399.2	344.6	311.1	290.6	274.3
55°	564.4	653.8	702.9	649.0	515.3	408.5	337.2	294.5	269.5	252.1	238.2
57.5°	490.1	564.0	594.8	532.2	424.4	338.7	285.3	253.2	228.4	215.9	208.7
60°	443.6	506.6	528.3	459.0	369.0	296.3	252.6	222.7	204.4	196.3	189.1
62.5°	397.8	449.3	458.3	394.7	321.7	259.4	221.8	196.6	184.5	176.6	169.8
65°	330.1	367.1	362.8	311.8	254.5	205.9	178.5	163.1	153.9	142.9	130.8
67.5°	271.7	294.4	280.7	242.5	194.3	160.0	142.1	130.4	119.1	108.7	105.8
70°	234.8	247.8	233.4	198.2	159.3	134.2	119.8	105.8	99.2	96.7	92.4
72.5°	199.3	203.9	188.3	158.2	129.6	111.1	97.1	89.3	85.7	83.6	80.9
75°	149.7	146.3	132.8	109.2	90.0	77.5	73.1	70.2	67.9	65.9	64.5
77.5°	105.1	100.2	88.1	72.8	62.7	56.6	54.1	52.5	51.4	50.4	49.0
80°	78.9	75.5	63.5	51.9	47.6	44.8	43.3	41.4	41.4	40.4	38.9
82.5°	57.8	54.0	43.5	38.1	35.7	33.9	32.9	31.8	31.4	31.6	30.5
85°	30.3	24.5	21.7	20.6	19.2	18.3	18.8	17.8	17.8	17.8	17.3
87.5°	10.2	8.9	9.1	9.4	10.4	10.8	10.9	11.4	12.3	12.2	12.9
90°	4.6	7.9	11.2	14.4	17.2	19.7	22.1	24.4	26.8	28.3	29.8
92.5°	26.8	26.5	26.2	25.9	26.3	27.5	28.7	29.9	31.1	31.9	32.6
95°	77.3	67.5	57.7	47.8	43.9	46.0	48.1	50.2	52.3	53.7	55.2
97.5°	145.2	117.5	89.8	62.1	50.7	55.5	60.3	65.1	69.9	71.2	72.4
100°	196.4	155.6	114.8	74.0	56.2	61.2	66.3	71.4	76.4	78.8	81.2
102.5°	299.4	290.8	282.1	273.5	248.0	205.7	163.2	120.9	78.5	81.6	84.7
105°	416.4	425.4	434.3	443.3	407.1	325.7	244.4	163.1	81.8	85.0	88.3
107.5°	528.1	535.4	542.5	549.8	504.6	407.1	309.5	212.0	114.5	111.1	107.8
110°	600.1	606.3	612.7	618.9	578.9	492.9	406.8	320.7	234.6	204.8	175.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	668.0	673.5	679.1	684.7	676.7	655.5	634.2	612.9	591.7	483.1	374.4
115°	775.9	780.9	786.0	791.1	797.3	804.7	812.2	819.6	827.1	689.2	551.3
117.5°	873.3	878.9	884.6	890.2	895.6	900.7	905.9	911.0	916.2	882.8	849.4
120°	942.8	947.3	951.8	956.2	961.1	966.5	971.9	977.2	982.6	986.2	989.8
122.5°	1003.1	1007.9	1012.6	1017.3	1022.6	1028.3	1034.2	1040.0	1045.8	1048.0	1050.2
125°	1093.7	1097.6	1101.5	1105.3	1110.1	1115.8	1121.4	1127.1	1132.7	1134.8	1136.9
127.5°	1177.0	1181.3	1185.5	1189.9	1194.1	1198.3	1202.6	1206.8	1211.1	1214.1	1217.1
130°	1230.0	1234.7	1239.5	1244.3	1248.3	1251.6	1254.9	1258.1	1261.4	1264.7	1268.0
132.5°	1282.9	1286.9	1291.0	1295.1	1298.7	1302.0	1305.2	1308.5	1311.8	1314.7	1317.4
135°	1353.3	1358.1	1362.8	1367.6	1371.3	1374.0	1376.7	1379.4	1382.1	1385.1	1388.0
137.5°	1422.4	1425.8	1429.1	1432.4	1435.6	1438.6	1441.7	1444.7	1447.7	1450.7	1453.6
140°	1467.5	1470.0	1472.3	1474.7	1477.5	1480.8	1484.1	1487.4	1490.6	1493.4	1496.0
142.5°	1505.9	1508.1	1510.2	1512.4	1515.3	1519.1	1522.9	1526.5	1530.3	1532.8	1535.2
145°	1564.1	1563.8	1563.5	1563.2	1565.6	1570.7	1575.7	1580.7	1585.8	1587.9	1590.0
147.5°	1616.1	1615.0	1613.8	1612.7	1614.6	1619.6	1624.7	1629.7	1634.7	1636.2	1637.8
150°	1649.4	1647.4	1645.3	1643.1	1644.5	1649.3	1654.1	1658.8	1663.6	1665.4	1667.2
152.5°	1678.2	1675.8	1673.5	1671.2	1672.3	1676.8	1681.3	1685.8	1690.4	1692.1	1693.9
155°	1719.9	1717.2	1714.5	1711.8	1712.3	1715.9	1719.5	1723.1	1726.5	1728.3	1730.1
157.5°	1753.3	1751.1	1748.8	1746.5	1746.6	1749.1	1751.6	1754.1	1756.6	1758.7	1760.7
160°	1773.0	1771.3	1769.5	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8	1776.6	1778.4
162.5°	1790.3	1788.5	1786.7	1784.9	1784.7	1786.3	1787.8	1789.4	1790.9	1793.0	1795.0
165°	1813.3	1811.5	1809.7	1807.9	1807.5	1808.4	1809.2	1810.2	1811.0	1813.2	1815.2
167.5°	1830.4	1828.6	1826.8	1825.0	1824.6	1825.4	1826.3	1827.1	1828.0	1830.0	1832.1
170°	1840.1	1838.3	1836.5	1834.8	1834.1	1834.8	1835.3	1835.9	1836.5	1838.6	1840.7
172.5°	1846.5	1844.7	1843.0	1841.2	1840.6	1841.2	1841.7	1842.4	1843.0	1845.0	1847.1
175°	1854.5	1852.5	1850.4	1848.3	1847.6	1848.1	1848.7	1849.4	1849.9	1852.0	1854.1
177.5°	1856.3	1854.6	1852.9	1851.2	1850.6	1850.8	1851.1	1851.2	1851.5	1853.2	1854.8
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1433.1	1438.1	1440.5	1440.5	1443.2	1442.0	1440.9
5°	1515.5	1524.7	1526.6	1535.3	1541.5	1539.5	1540.6
7.5°	1597.4	1612.1	1626.6	1633.3	1634.4	1638.2	1639.6
10°	1647.8	1659.9	1682.5	1679.1	1695.9	1705.6	1689.7
12.5°	1696.4	1712.6	1728.2	1732.6	1742.2	1745.2	1739.0
15°	1740.2	1748.9	1749.8	1747.5	1750.3	1747.9	1738.8
17.5°	1699.2	1685.2	1656.7	1643.2	1632.6	1616.7	1610.4
20°	1631.4	1590.1	1542.0	1522.8	1500.2	1455.9	1466.5
22.5°	1485.3	1438.0	1390.0	1333.8	1306.9	1265.0	1262.4
25°	1257.6	1176.4	1086.8	1024.4	987.8	945.9	927.7
27.5°	977.8	875.4	802.1	765.0	731.2	698.0	696.6
30°	793.8	716.9	660.1	628.4	607.7	593.7	596.6
32.5°	669.1	616.4	578.2	551.8	536.5	525.9	525.8
35°	547.1	511.0	486.4	475.3	464.3	456.6	457.0
37.5°	468.2	446.5	432.8	420.6	413.7	409.9	407.8
40°	427.7	409.9	399.4	392.1	386.3	381.1	380.1
42.5°	395.8	381.1	370.4	364.8	359.4	355.6	354.7
45°	351.2	339.2	329.6	323.3	320.9	317.5	317.5
47.5°	312.5	300.6	293.1	289.2	285.0	282.8	282.7
50°	286.3	277.1	270.4	268.0	264.6	263.2	262.7
52.5°	262.8	256.0	251.2	249.5	248.1	246.2	246.6
55°	230.9	227.1	225.2	223.8	221.3	218.4	220.4
57.5°	204.1	200.9	195.7	191.1	188.9	186.9	187.7
60°	185.2	178.5	171.7	166.5	165.0	160.7	160.7
62.5°	161.4	151.9	143.6	140.7	139.2	137.2	136.9
65°	124.1	120.3	118.4	116.4	115.5	115.5	114.5
67.5°	102.8	101.3	99.2	98.7	97.7	97.5	97.2
70°	91.0	89.0	88.0	87.6	86.6	87.1	85.7
72.5°	79.4	77.9	77.7	76.4	75.8	75.9	74.8
75°	62.6	62.6	62.0	61.5	60.6	60.1	60.6
77.5°	48.1	48.2	47.3	47.2	47.1	47.2	46.8
80°	38.5	38.9	38.5	38.0	37.5	38.0	37.5
82.5°	30.4	29.7	29.6	29.5	29.4	29.1	29.0
85°	17.3	17.8	17.3	16.9	16.9	16.9	17.3
87.5°	12.8	13.1	13.3	13.4	13.6	13.7	13.4
90°	31.3	32.8	33.8	34.4	35.0	35.6	36.2
92.5°	33.5	34.2	34.8	35.2	35.4	35.8	36.2
95°	56.7	58.2	58.8	58.5	58.2	58.0	57.7
97.5°	73.5	74.7	75.5	75.9	76.3	76.6	76.9
100°	83.6	86.0	87.5	88.0	88.6	89.3	89.8
102.5°	87.8	91.0	92.9	93.8	94.5	95.4	96.2
105°	91.6	94.9	97.1	98.3	99.5	100.7	101.9
107.5°	104.4	101.1	100.1	101.2	102.5	103.7	104.8
110°	145.2	115.5	101.1	102.4	103.5	104.7	105.9



TEST NUMBER: P331821-830

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	265.7	157.0	103.1	104.2	105.1	106.0	107.0
115°	413.3	275.4	195.7	174.3	152.8	131.4	109.9
117.5°	816.1	782.7	730.8	660.3	589.7	519.2	448.8
120°	993.3	996.9	978.5	938.4	898.1	857.9	817.7
122.5°	1052.3	1054.4	1051.6	1043.8	1036.0	1028.2	1020.4
125°	1139.0	1141.0	1142.6	1143.5	1144.3	1145.3	1146.1
127.5°	1220.1	1223.1	1224.8	1224.9	1225.1	1225.3	1225.5
130°	1271.3	1274.5	1276.0	1275.7	1275.4	1275.2	1274.8
132.5°	1320.2	1323.0	1324.3	1324.0	1323.7	1323.4	1323.0
135°	1391.0	1394.0	1395.2	1394.6	1394.0	1393.4	1392.8
137.5°	1456.5	1459.4	1460.4	1459.3	1458.4	1457.4	1456.3
140°	1498.7	1501.4	1501.9	1500.5	1499.0	1497.5	1496.0
142.5°	1537.7	1540.1	1540.6	1539.1	1537.6	1536.2	1534.6
145°	1592.0	1594.2	1594.5	1593.0	1591.5	1590.0	1588.6
147.5°	1639.3	1640.9	1641.0	1639.7	1638.5	1637.2	1636.0
150°	1669.0	1670.8	1670.8	1669.4	1667.9	1666.4	1664.9
152.5°	1695.7	1697.5	1697.4	1695.4	1693.6	1691.6	1689.6
155°	1731.9	1733.7	1733.4	1731.1	1728.7	1726.3	1723.9
157.5°	1762.6	1764.7	1764.5	1762.3	1759.9	1757.6	1755.3
160°	1780.2	1782.0	1781.9	1779.8	1777.6	1775.6	1773.5
162.5°	1797.1	1799.0	1798.7	1796.2	1793.7	1791.1	1788.6
165°	1817.3	1819.4	1819.4	1817.3	1815.2	1813.2	1811.0
167.5°	1834.2	1836.3	1836.0	1833.3	1830.6	1828.0	1825.2
170°	1842.8	1844.8	1844.6	1841.9	1839.2	1836.5	1833.8
172.5°	1849.2	1851.2	1851.0	1848.3	1845.6	1843.0	1840.2
175°	1856.1	1858.2	1857.8	1854.8	1851.8	1848.9	1845.9
177.5°	1856.5	1858.2	1857.9	1855.8	1853.7	1851.5	1849.4
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6

(END OF REPORT)