

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: P331580-935

Luminaire Tested: **S122DIW-S865D1440U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331580-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S865D1440U935-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7586.7 lumens
Efficiency: N/A
Efficacy: 99.0 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

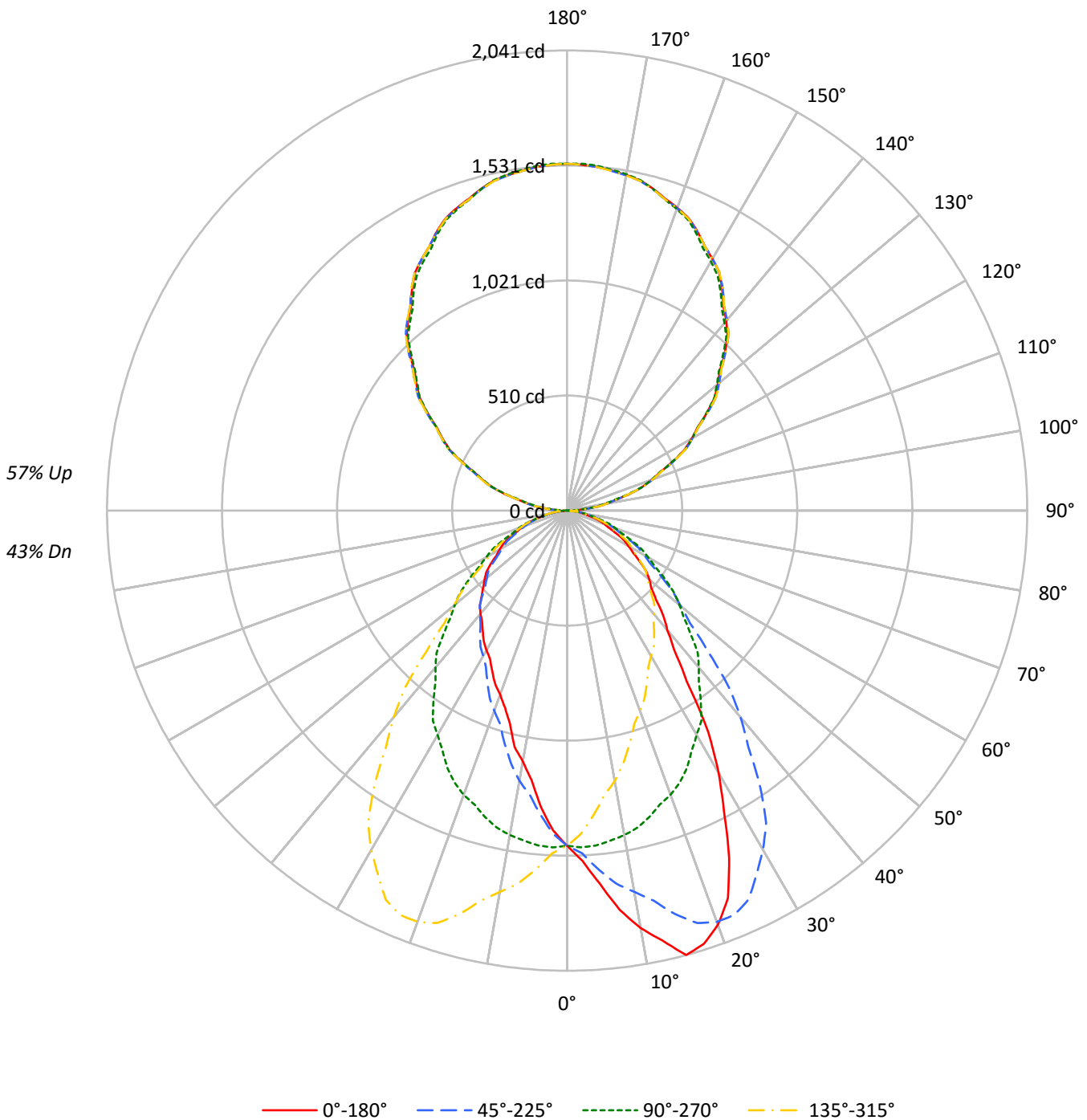
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	70	81	75	70	65	62	58	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	27				
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	27	24	21				
6	63	51	43	38	57	47	40	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	24	22	19	17				
8	54	42	35	30	49	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°	24001	24001	24001	24001
5°	26909	24159	21409	24159
10°	30836	23961	18528	23961
15°	34111	23520	16368	23520
20°	33593	23048	14921	23048
25°	30289	22422	14004	22422
30°	25031	21420	13336	21420
35°	18242	20371	12861	20371
40°	14570	19134	12596	19134
45°	12732	17701	12237	17701
50°	11969	16317	11997	16317
55°	11032	14908	11674	14908
60°	10111	13411	11179	13411
65°	9211	12069	10693	12069
70°	8360	10763	9980	10763
75°	7411	9301	8840	9301
80°	6369	7699	7113	7699
85°	5706	5706	4224	5706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.9
10°-20°	411.6	5.4
20°-30°	597.3	7.9
30°-40°	630.3	8.3
40°-50°	558.1	7.4
50°-60°	445.4	5.9
60°-70°	302.7	4.0
70°-80°	155.2	2.0
80°-90°	43.6	0.6
90°-100°	97.5	1.3
100°-110°	302.7	4.0
110°-120°	517.4	6.8
120°-130°	680.4	9.0
130°-140°	763.7	10.1
140°-150°	748.8	9.9
150°-160°	628.1	8.3
160°-170°	416.6	5.5
170°-180°	145.6	1.9
0°-30°	1150.5	15.2
0°-40°	1780.8	23.5
0°-60°	2784.3	36.7
0°-90°	3285.8	43.3
90°-120°	917.6	12.1
90°-150°	3110.6	41.0
90°-180°	4301.0	56.7
0°-180°	7586.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1486	1486	1486	1486	1486	
5°	1660	1491	1321	1491	1660	166
15°	2041	1407	979	1407	2041	563
25°	1700	1259	786	1259	1700	768
35°	926	1034	652	1034	926	602
45°	558	775	536	775	558	438
55°	392	530	415	530	392	351
65°	241	316	280	316	241	240
75°	119	149	142	149	119	127
85°	31	31	23	31	31	35
90°	44	1	44	1	44	21
95°	80	68	80	68	80	90
105°	288	279	288	279	288	303
115°	519	519	519	519	519	513
125°	758	755	758	755	758	676
135°	989	977	989	977	989	761
145°	1199	1186	1199	1186	1199	749
155°	1367	1356	1367	1356	1367	629
165°	1477	1476	1477	1476	1477	417
175°	1530	1536	1530	1536	1530	145
180°	1538	1538	1538	1538	1538	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1555.1	1555.6	1556.5	1549.2	1548.3	1548.3	1541.9	1536.4	1530.0	1521.3	1522.2
5°	1660.3	1666.6	1668.8	1662.0	1651.7	1650.5	1640.8	1624.8	1610.0	1597.9	1589.4
7.5°	1785.7	1788.2	1782.6	1773.6	1765.9	1752.2	1734.1	1716.5	1691.7	1669.0	1652.0
10°	1880.8	1884.2	1874.5	1861.3	1850.5	1834.4	1808.2	1781.3	1748.8	1717.4	1692.2
12.5°	1953.0	1961.4	1949.0	1947.2	1928.6	1906.7	1875.4	1861.8	1816.0	1772.2	1745.2
15°	2040.7	2040.1	2041.3	2030.4	2016.7	2013.3	1980.2	1944.2	1879.6	1853.9	1809.4
17.5°	2015.3	2024.0	2028.1	2027.9	2027.6	2025.4	2014.8	1992.1	1959.7	1918.0	1866.6
20°	1955.1	1966.4	1968.2	1981.3	1988.7	1998.5	2002.4	1996.1	1976.2	1941.3	1896.8
22.5°	1861.8	1865.0	1870.4	1890.8	1906.9	1931.3	1944.0	1965.1	1957.4	1940.4	1903.2
25°	1700.2	1694.5	1714.5	1724.8	1762.0	1800.8	1828.8	1859.6	1887.1	1903.6	1892.7
27.5°	1506.2	1497.6	1527.6	1554.9	1585.0	1627.1	1670.8	1722.3	1765.1	1818.7	1837.1
30°	1342.6	1347.7	1376.3	1405.4	1451.1	1510.5	1559.7	1616.3	1677.4	1737.3	1779.1
32.5°	1166.1	1185.9	1204.0	1248.6	1288.9	1355.1	1427.1	1497.9	1574.1	1642.3	1706.8
35°	925.5	948.4	973.5	1006.1	1062.6	1128.3	1198.6	1294.0	1398.0	1491.2	1567.7
37.5°	779.0	775.4	789.8	813.3	859.1	912.1	993.1	1087.4	1209.7	1319.1	1427.1
40°	691.3	689.0	699.3	721.0	755.9	794.7	865.6	948.4	1062.0	1195.8	1324.3
42.5°	630.9	632.3	638.0	653.3	677.3	709.2	762.2	832.8	936.9	1062.7	1200.9
45°	557.6	561.6	567.9	575.3	589.0	615.3	645.0	695.3	777.6	882.7	1018.6
47.5°	504.8	504.9	511.3	517.8	526.0	540.8	565.0	596.6	654.6	740.2	857.1
50°	476.5	472.5	477.1	482.2	490.8	501.0	517.0	546.7	585.6	654.7	752.4
52.5°	441.8	441.9	446.0	447.9	455.6	465.9	480.4	501.0	536.2	590.3	670.6
55°	391.9	394.8	397.1	400.5	407.3	414.7	426.2	439.9	467.4	507.9	567.3
57.5°	345.1	345.9	348.3	354.8	359.1	366.0	376.9	389.3	407.1	437.1	481.8
60°	313.1	313.1	317.6	320.5	326.2	333.0	341.6	353.6	369.6	394.2	430.2
62.5°	283.9	283.4	285.2	289.9	294.2	300.7	309.2	319.3	334.4	356.3	385.9
65°	241.1	240.0	243.4	244.5	249.1	255.4	262.3	273.1	285.1	301.1	327.4
67.5°	199.9	201.3	203.2	205.3	207.8	214.5	219.0	226.7	236.9	250.1	267.9
70°	177.1	177.1	177.1	178.8	182.3	185.7	190.3	196.6	206.2	217.7	233.7
72.5°	151.5	153.3	155.2	154.1	158.5	160.6	166.0	169.5	178.8	186.1	200.3
75°	118.8	118.8	118.8	121.7	123.4	125.1	128.5	132.0	136.6	145.7	153.1
77.5°	88.7	88.4	89.0	89.7	91.5	93.6	94.6	97.7	101.9	106.2	112.4
80°	68.5	69.7	70.3	71.4	71.4	72.6	73.1	77.1	80.0	82.8	86.9
82.5°	53.0	53.2	53.4	53.6	54.1	54.8	56.2	57.5	58.5	60.9	64.0
85°	30.8	30.3	30.3	31.4	30.8	30.8	32.0	33.1	33.1	33.7	35.4
87.5°	20.8	20.7	21.1	20.6	20.5	20.9	21.1	20.8	21.4	21.9	21.1
90°	44.2	43.8	43.6	43.3	43.0	43.1	43.7	44.3	44.9	45.5	39.1
92.5°	42.0	42.0	41.9	41.8	41.8	41.8	41.6	41.5	41.4	41.2	39.8
95°	80.5	81.0	81.6	82.2	82.7	83.1	83.1	83.1	83.1	83.1	82.5
97.5°	139.4	139.5	139.5	139.6	139.7	139.7	139.7	139.7	139.7	139.7	138.5
100°	177.8	178.1	178.4	178.7	179.0	179.1	179.1	179.1	179.1	179.1	178.2
102.5°	221.4	221.7	222.1	222.3	222.6	222.7	222.4	222.1	222.0	221.7	220.6
105°	288.2	288.2	288.2	288.2	288.2	287.8	287.3	286.7	286.1	285.6	285.0
107.5°	350.9	352.3	353.6	355.0	356.3	356.8	356.6	356.4	356.1	355.9	355.9
110°	399.8	400.6	401.5	402.3	403.2	403.7	403.7	403.7	403.7	403.7	403.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.5	447.1	447.8	448.4	449.0	449.7	450.4	451.1	451.8	452.5	452.7
115°	519.2	520.0	520.9	521.8	522.6	523.2	523.5	523.8	524.1	524.4	525.0
117.5°	588.5	589.4	590.2	591.1	591.9	592.8	593.5	594.2	594.9	595.6	597.1
120°	637.3	638.2	639.0	639.9	640.8	641.2	641.2	641.2	641.2	641.2	643.5
122.5°	685.1	685.7	686.4	687.0	687.6	688.3	689.0	689.7	690.3	691.0	692.7
125°	758.0	758.4	758.6	758.9	759.2	759.7	760.6	761.5	762.3	763.2	764.1
127.5°	824.5	825.4	826.3	827.2	828.2	829.1	830.2	831.2	832.2	833.4	834.4
130°	872.3	873.4	874.6	875.7	876.8	877.7	878.3	878.9	879.5	880.0	880.6
132.5°	917.9	918.9	919.8	920.8	921.6	922.7	924.0	925.3	926.5	927.8	927.7
135°	989.1	990.0	990.8	991.7	992.6	993.2	993.4	993.7	994.0	994.3	993.7
137.5°	1053.4	1054.6	1055.8	1057.0	1058.1	1058.8	1059.0	1059.2	1059.5	1059.7	1058.9
140°	1098.1	1099.2	1100.4	1101.6	1102.8	1103.3	1103.3	1103.3	1103.3	1103.3	1101.9
142.5°	1138.6	1139.8	1140.9	1142.1	1143.2	1143.7	1143.5	1143.2	1143.0	1142.8	1141.8
145°	1199.4	1200.5	1201.7	1202.8	1203.9	1204.4	1204.1	1203.9	1203.5	1203.2	1201.5
147.5°	1253.6	1254.7	1255.8	1256.9	1258.0	1258.3	1257.6	1257.0	1256.4	1255.7	1254.6
150°	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4	1291.5	1290.6	1289.8	1288.9	1287.8
152.5°	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5	1325.4	1324.3	1323.3	1322.2	1320.8
155°	1366.8	1367.7	1368.6	1369.4	1370.3	1369.9	1368.6	1367.1	1365.6	1364.2	1363.3
157.5°	1405.2	1406.6	1408.0	1409.4	1410.7	1410.5	1408.5	1406.5	1404.5	1402.7	1402.1
160°	1429.1	1430.3	1431.4	1432.5	1433.7	1433.4	1431.7	1429.9	1428.2	1426.5	1426.2
162.5°	1449.8	1451.3	1452.7	1454.1	1455.4	1455.1	1453.2	1451.2	1449.2	1447.3	1447.0
165°	1477.1	1478.6	1480.1	1481.4	1482.9	1482.6	1480.6	1478.6	1476.5	1474.5	1474.5
167.5°	1499.4	1501.0	1502.4	1504.0	1505.5	1505.2	1503.2	1501.2	1499.2	1497.1	1497.2
170°	1510.9	1512.6	1514.3	1516.0	1517.8	1517.7	1515.6	1513.6	1511.6	1509.6	1509.8
172.5°	1520.3	1522.0	1523.7	1525.4	1527.2	1527.0	1525.0	1522.9	1521.0	1518.9	1519.2
175°	1530.3	1532.1	1533.8	1535.5	1537.3	1537.1	1535.1	1533.1	1531.1	1529.0	1529.7
177.5°	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6	1539.2	1537.8	1536.4	1535.0	1535.5
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1525.4	1521.7	1519.5	1511.2	1503.9	1496.6	1494.4	1495.2	1485.2	1475.6	1471.4
5°	1584.8	1573.4	1562.5	1547.1	1528.9	1508.8	1498.6	1490.6	1470.6	1448.9	1436.3
7.5°	1638.1	1621.7	1600.9	1571.8	1545.2	1513.7	1493.7	1476.0	1446.8	1416.2	1397.4
10°	1670.5	1648.2	1621.3	1586.0	1553.4	1515.1	1488.2	1461.5	1427.1	1390.6	1367.7
12.5°	1698.4	1668.4	1641.9	1596.5	1558.0	1510.1	1478.3	1440.4	1404.3	1360.9	1338.5
15°	1764.8	1709.3	1659.1	1607.7	1560.2	1493.4	1458.0	1407.1	1359.7	1306.1	1280.3
17.5°	1816.1	1753.9	1674.6	1609.3	1553.9	1480.0	1428.0	1367.0	1311.0	1249.6	1214.6
20°	1845.4	1773.9	1688.8	1611.1	1544.8	1460.3	1403.7	1341.4	1275.7	1206.6	1168.9
22.5°	1862.7	1787.6	1703.4	1604.2	1526.6	1444.2	1373.1	1304.8	1238.3	1163.6	1124.1
25°	1868.2	1799.7	1710.5	1598.5	1503.7	1410.6	1324.9	1258.6	1178.0	1108.4	1050.7
27.5°	1841.0	1791.8	1706.2	1587.8	1477.3	1368.4	1272.9	1197.8	1112.8	1037.2	979.1
30°	1807.7	1779.1	1695.7	1576.8	1456.3	1339.2	1234.1	1148.9	1064.4	987.8	928.4
32.5°	1756.0	1749.8	1676.5	1561.3	1433.9	1302.2	1193.3	1107.3	1013.7	938.4	881.8
35°	1654.5	1682.0	1635.6	1526.6	1391.7	1249.5	1131.8	1033.5	936.4	864.4	811.2
37.5°	1518.5	1586.7	1574.5	1475.7	1334.8	1192.1	1062.2	959.5	866.9	794.3	742.1
40°	1424.9	1511.7	1524.2	1436.8	1294.6	1147.8	1010.1	907.8	817.5	751.3	698.7
42.5°	1324.3	1425.7	1460.3	1390.3	1250.7	1101.1	963.5	857.6	768.2	703.8	657.1
45°	1155.8	1290.0	1352.3	1312.3	1177.5	1024.3	882.7	775.2	694.1	633.6	597.6
47.5°	998.2	1144.9	1228.6	1214.5	1096.0	944.3	804.3	701.2	622.2	573.9	541.7
50°	886.7	1037.5	1138.6	1143.2	1037.5	887.3	746.7	649.6	577.0	531.9	505.6
52.5°	789.8	933.8	1044.0	1068.2	972.2	827.9	695.1	598.4	534.5	493.0	469.5
55°	663.3	785.0	907.2	951.8	874.7	737.5	614.8	529.6	469.6	441.1	420.5
57.5°	551.5	652.9	765.8	815.0	767.5	650.1	534.9	461.1	412.3	387.4	371.6
60°	492.5	572.5	673.0	731.8	690.7	586.2	485.6	415.3	375.4	353.1	338.2
62.5°	437.6	508.5	593.5	647.3	624.9	526.3	436.3	374.2	339.7	318.8	308.1
65°	361.1	417.1	482.8	532.4	517.6	442.7	369.1	315.9	288.5	271.9	263.4
67.5°	297.3	337.8	383.3	426.9	414.9	361.9	302.6	261.3	240.9	226.6	221.4
70°	257.1	287.9	328.5	363.3	353.6	310.2	263.4	228.0	210.3	198.3	193.1
72.5°	218.7	244.1	275.0	303.5	297.0	260.9	221.8	195.0	181.4	170.4	166.2
75°	165.1	184.5	203.4	222.2	220.5	192.5	169.7	149.1	138.3	129.7	127.9
77.5°	121.9	132.8	145.6	156.8	153.7	137.7	119.8	108.0	100.0	94.3	93.3
80°	93.2	99.4	108.6	116.6	112.5	105.7	91.4	82.8	77.1	71.4	69.1
82.5°	67.5	73.8	79.3	83.6	80.6	74.1	65.3	59.5	56.1	52.2	51.3
85°	35.4	38.8	41.2	42.3	41.2	37.1	33.1	30.8	28.0	26.3	25.7
87.5°	20.2	19.0	17.7	17.7	15.6	14.9	12.4	10.3	10.6	10.8	10.6
90°	32.7	26.4	20.1	15.2	11.7	8.2	4.7	1.3	4.7	8.2	11.7
92.5°	38.3	36.8	35.3	33.2	30.7	28.2	25.7	23.1	25.7	28.2	30.7
95°	81.9	81.4	80.8	79.0	76.1	73.3	70.3	67.5	70.3	73.3	76.1
97.5°	137.5	136.4	135.3	133.5	131.0	128.4	125.9	123.3	125.9	128.4	131.0
100°	177.4	176.5	175.6	174.1	171.8	169.4	167.1	164.9	167.1	169.4	171.8
102.5°	219.5	218.4	217.3	215.9	214.0	212.2	210.3	208.4	210.3	212.2	214.0
105°	284.4	283.9	283.3	282.5	281.6	280.8	279.9	279.1	279.9	280.8	281.6
107.5°	355.9	355.9	355.9	355.2	354.0	352.8	351.5	350.2	351.5	352.8	354.0
110°	403.7	403.7	403.7	402.8	401.1	399.3	397.6	395.9	397.6	399.3	401.1



TEST NUMBER: P331580-935

CATALOG NUMBER: S122DIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	453.0	453.1	453.4	452.6	450.9	449.2	447.5	445.7	447.5	449.2	450.9
115°	525.6	526.2	526.7	526.2	524.4	522.6	520.9	519.2	520.9	522.6	524.4
117.5°	598.7	600.4	602.0	601.7	599.3	597.0	594.7	592.5	594.7	597.0	599.3
120°	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2	643.5	645.8	648.2
122.5°	694.3	695.9	697.5	697.0	694.1	691.4	688.6	685.9	688.6	691.4	694.1
125°	765.0	765.9	766.7	765.9	763.2	760.6	758.0	755.4	758.0	760.6	763.2
127.5°	835.4	836.5	837.5	836.4	833.1	829.7	826.5	823.2	826.5	829.7	833.1
130°	881.2	881.8	882.4	880.8	877.0	873.3	869.5	865.7	869.5	873.3	877.0
132.5°	927.6	927.5	927.4	925.7	922.7	919.6	916.6	913.5	916.6	919.6	922.7
135°	993.2	992.6	992.0	990.1	986.9	983.8	980.6	977.4	980.6	983.8	986.9
137.5°	1058.2	1057.5	1056.7	1055.0	1052.4	1049.8	1047.2	1044.7	1047.2	1049.8	1052.4
140°	1100.4	1099.0	1097.5	1095.5	1093.0	1090.4	1087.7	1085.1	1087.7	1090.4	1093.0
142.5°	1140.8	1139.8	1138.8	1137.0	1134.5	1131.9	1129.3	1126.7	1129.3	1131.9	1134.5
145°	1199.8	1198.1	1196.4	1194.5	1192.4	1190.4	1188.4	1186.4	1188.4	1190.4	1192.4
147.5°	1253.4	1252.2	1251.1	1249.3	1246.9	1244.4	1242.0	1239.6	1242.0	1244.4	1246.9
150°	1286.6	1285.5	1284.3	1282.9	1281.2	1279.4	1277.6	1275.9	1277.6	1279.4	1281.2
152.5°	1319.4	1318.0	1316.6	1315.1	1313.3	1311.6	1309.8	1308.1	1309.8	1311.6	1313.3
155°	1362.4	1361.6	1360.7	1359.9	1359.0	1358.1	1357.3	1356.4	1357.3	1358.1	1359.0
157.5°	1401.6	1401.1	1400.6	1400.0	1399.5	1398.9	1398.3	1397.7	1398.3	1398.9	1399.5
160°	1425.9	1425.6	1425.4	1425.0	1424.4	1423.7	1423.2	1422.6	1423.2	1423.7	1424.4
162.5°	1446.7	1446.4	1446.1	1446.0	1445.8	1445.7	1445.6	1445.4	1445.6	1445.7	1445.8
165°	1474.5	1474.5	1474.5	1474.7	1475.0	1475.2	1475.6	1475.8	1475.6	1475.2	1475.0
167.5°	1497.3	1497.3	1497.4	1497.8	1498.7	1499.5	1500.4	1501.2	1500.4	1499.5	1498.7
170°	1510.2	1510.5	1510.7	1511.3	1512.2	1513.0	1513.9	1514.8	1513.9	1513.0	1512.2
172.5°	1519.5	1519.8	1520.1	1520.7	1521.6	1522.4	1523.3	1524.1	1523.3	1522.4	1521.6
175°	1530.2	1530.8	1531.4	1532.1	1532.9	1533.8	1534.6	1535.5	1534.6	1533.8	1532.9
177.5°	1535.9	1536.4	1536.9	1537.5	1538.2	1538.9	1539.6	1540.2	1539.6	1538.9	1538.2
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331580-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1466.9	1464.1	1454.6	1449.6	1441.3	1433.6	1428.5	1430.8	1432.6	1431.7	1430.4
5°	1424.9	1414.0	1397.4	1383.1	1372.9	1354.0	1346.0	1342.0	1338.6	1334.6	1330.6
7.5°	1374.8	1357.7	1333.9	1313.5	1294.3	1270.9	1257.6	1249.6	1241.4	1232.3	1224.3
10°	1339.2	1315.2	1290.0	1261.5	1238.6	1217.5	1198.6	1186.0	1174.7	1163.7	1155.8
12.5°	1301.7	1274.0	1242.9	1203.9	1178.7	1148.5	1145.6	1123.4	1105.6	1098.9	1089.5
15°	1242.1	1203.2	1163.7	1117.5	1097.5	1070.1	1052.9	1035.8	1020.4	1009.5	1006.7
17.5°	1174.3	1124.0	1084.8	1051.5	1018.7	990.7	974.9	961.2	948.5	934.0	932.0
20°	1122.7	1079.2	1036.4	1007.2	973.5	944.9	925.5	911.8	901.0	892.4	884.9
22.5°	1073.8	1026.2	987.0	955.1	921.9	898.8	883.5	870.2	861.2	851.7	844.7
25°	995.2	958.1	915.2	879.3	851.8	837.0	824.4	813.0	807.3	801.0	793.0
27.5°	926.5	885.3	845.2	817.3	793.2	780.1	771.2	763.4	758.0	754.3	749.8
30°	878.1	836.4	804.9	777.6	757.6	744.4	738.7	734.2	727.9	725.6	723.3
32.5°	831.5	793.9	767.1	743.3	724.2	715.7	710.4	706.3	701.4	699.0	694.5
35°	765.6	734.2	707.8	694.7	679.3	671.8	667.9	662.2	657.5	655.3	654.7
37.5°	703.5	676.2	658.9	642.0	635.5	630.9	625.5	621.6	620.2	619.8	619.3
40°	663.3	641.0	625.6	611.9	609.0	602.2	597.6	594.2	594.2	594.8	594.2
42.5°	626.7	606.7	593.1	581.3	577.9	573.9	569.3	569.0	570.0	571.9	570.0
45°	571.3	557.1	547.3	541.6	535.3	531.3	530.7	532.4	533.0	533.6	535.3
47.5°	520.4	510.8	502.0	495.8	493.0	492.3	491.6	494.6	497.4	498.4	501.0
50°	490.2	479.3	471.9	467.9	465.6	464.5	465.6	469.1	471.3	474.2	475.9
52.5°	456.3	448.7	443.6	440.5	439.5	440.2	440.5	444.4	448.1	449.0	449.9
55°	409.7	403.9	402.8	397.6	399.9	399.3	402.2	404.5	407.9	411.4	411.9
57.5°	363.0	358.4	355.3	355.9	356.5	359.0	361.4	365.4	369.1	372.7	373.1
60°	331.9	329.7	328.0	328.0	329.1	332.5	335.4	339.3	341.6	344.0	345.6
62.5°	303.6	301.4	299.6	300.5	303.5	305.6	308.8	311.0	313.3	315.6	316.4
65°	258.8	257.7	259.4	260.5	261.1	264.0	267.9	269.7	271.9	273.1	277.1
67.5°	217.6	217.7	217.6	219.1	222.5	223.2	227.0	230.9	231.4	233.6	236.2
70°	189.7	190.8	192.0	193.1	196.0	197.1	199.9	201.6	204.0	205.7	207.4
72.5°	164.1	164.3	165.5	165.2	167.6	170.1	172.5	174.3	176.5	178.7	180.4
75°	126.2	126.2	127.4	127.9	130.9	133.7	133.1	134.2	136.6	138.8	140.0
77.5°	92.2	90.9	92.2	92.8	93.7	96.1	96.5	98.2	100.7	100.0	101.3
80°	70.3	68.5	70.3	70.9	70.9	73.7	73.7	74.8	76.5	74.8	76.5
82.5°	50.2	49.3	50.6	50.7	51.7	51.7	52.7	52.9	54.6	53.8	54.6
85°	25.1	24.5	25.1	24.5	25.1	25.7	25.7	25.1	25.1	26.3	24.5
87.5°	10.8	11.4	12.1	13.4	14.2	15.1	14.5	14.4	14.2	13.2	13.2
90°	15.2	20.1	26.4	32.7	39.1	45.5	44.9	44.3	43.7	43.1	43.0
92.5°	33.2	35.3	36.8	38.3	39.8	41.2	41.4	41.5	41.6	41.8	41.8
95°	79.0	80.8	81.4	81.9	82.5	83.1	83.1	83.1	83.1	83.1	82.7
97.5°	133.5	135.3	136.4	137.5	138.5	139.7	139.7	139.7	139.7	139.7	139.7
100°	174.1	175.6	176.5	177.4	178.2	179.1	179.1	179.1	179.1	179.1	179.0
102.5°	215.9	217.3	218.4	219.5	220.6	221.7	222.0	222.1	222.4	222.7	222.6
105°	282.5	283.3	283.9	284.4	285.0	285.6	286.1	286.7	287.3	287.8	288.2
107.5°	355.2	355.9	355.9	355.9	355.9	355.9	356.1	356.4	356.6	356.8	356.3
110°	402.8	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.2



TEST NUMBER: P331580-935

CATALOG NUMBER: S122DIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	452.6	453.4	453.1	453.0	452.7	452.5	451.8	451.1	450.4	449.7	449.0
115°	526.2	526.7	526.2	525.6	525.0	524.4	524.1	523.8	523.5	523.2	522.6
117.5°	601.7	602.0	600.4	598.7	597.1	595.6	594.9	594.2	593.5	592.8	591.9
120°	650.5	650.5	648.2	645.8	643.5	641.2	641.2	641.2	641.2	641.2	640.8
122.5°	697.0	697.5	695.9	694.3	692.7	691.0	690.3	689.7	689.0	688.3	687.6
125°	765.9	766.7	765.9	765.0	764.1	763.2	762.3	761.5	760.6	759.7	759.2
127.5°	836.4	837.5	836.5	835.4	834.4	833.4	832.2	831.2	830.2	829.1	828.2
130°	880.8	882.4	881.8	881.2	880.6	880.0	879.5	878.9	878.3	877.7	876.8
132.5°	925.7	927.4	927.5	927.6	927.7	927.8	926.5	925.3	924.0	922.7	921.6
135°	990.1	992.0	992.6	993.2	993.7	994.3	994.0	993.7	993.4	993.2	992.6
137.5°	1055.0	1056.7	1057.5	1058.2	1058.9	1059.7	1059.5	1059.2	1059.0	1058.8	1058.1
140°	1095.5	1097.5	1099.0	1100.4	1101.9	1103.3	1103.3	1103.3	1103.3	1103.3	1102.8
142.5°	1137.0	1138.8	1139.8	1140.8	1141.8	1142.8	1143.0	1143.2	1143.5	1143.7	1143.2
145°	1194.5	1196.4	1198.1	1199.8	1201.5	1203.2	1203.5	1203.9	1204.1	1204.4	1203.9
147.5°	1249.3	1251.1	1252.2	1253.4	1254.6	1255.7	1256.4	1257.0	1257.6	1258.3	1258.0
150°	1282.9	1284.3	1285.5	1286.6	1287.8	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4
152.5°	1315.1	1316.6	1318.0	1319.4	1320.8	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5
155°	1359.9	1360.7	1361.6	1362.4	1363.3	1364.2	1365.6	1367.1	1368.6	1369.9	1370.3
157.5°	1400.0	1400.6	1401.1	1401.6	1402.1	1402.7	1404.5	1406.5	1408.5	1410.5	1410.7
160°	1425.0	1425.4	1425.6	1425.9	1426.2	1426.5	1428.2	1429.9	1431.7	1433.4	1433.7
162.5°	1446.0	1446.1	1446.4	1446.7	1447.0	1447.3	1449.2	1451.2	1453.2	1455.1	1455.4
165°	1474.7	1474.5	1474.5	1474.5	1474.5	1474.5	1476.5	1478.6	1480.6	1482.6	1482.9
167.5°	1497.8	1497.4	1497.3	1497.3	1497.2	1497.1	1499.2	1501.2	1503.2	1505.2	1505.5
170°	1511.3	1510.7	1510.5	1510.2	1509.8	1509.6	1511.6	1513.6	1515.6	1517.7	1517.8
172.5°	1520.7	1520.1	1519.8	1519.5	1519.2	1518.9	1521.0	1522.9	1525.0	1527.0	1527.2
175°	1532.1	1531.4	1530.8	1530.2	1529.7	1529.0	1531.1	1533.1	1535.1	1537.1	1537.3
177.5°	1537.5	1536.9	1536.4	1535.9	1535.5	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331580-935

CATALOG NUMBER: S122DIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1425.7	1424.9	1424.9	1420.7	1424.9	1424.9	1425.7	1430.4	1431.7	1432.6	1430.8
5°	1322.6	1320.9	1318.0	1320.9	1318.0	1320.9	1322.6	1330.6	1334.6	1338.6	1342.0
7.5°	1220.6	1213.7	1212.6	1205.9	1212.6	1213.7	1220.6	1224.3	1232.3	1241.4	1249.6
10°	1146.1	1141.5	1140.9	1130.1	1140.9	1141.5	1146.1	1155.8	1163.7	1174.7	1186.0
12.5°	1089.4	1078.4	1080.6	1074.3	1080.6	1078.4	1089.4	1089.5	1098.9	1105.6	1123.4
15°	991.3	991.3	988.9	979.2	988.9	991.3	991.3	1006.7	1009.5	1020.4	1035.8
17.5°	920.8	919.5	914.1	916.9	914.1	919.5	920.8	932.0	934.0	948.5	961.2
20°	878.7	875.3	868.4	868.4	868.4	875.3	878.7	884.9	892.4	901.0	911.8
22.5°	839.0	838.7	831.4	833.6	831.4	838.7	839.0	844.7	851.7	861.2	870.2
25°	792.4	787.8	784.5	786.1	784.5	787.8	792.4	793.0	801.0	807.3	813.0
27.5°	748.3	745.8	745.5	740.9	745.5	745.8	748.3	749.8	754.3	758.0	763.4
30°	722.7	717.0	718.2	715.3	718.2	717.0	722.7	723.3	725.6	727.9	734.2
32.5°	693.4	691.4	690.3	687.9	690.3	691.4	693.4	694.5	699.0	701.4	706.3
35°	653.6	654.2	651.3	652.5	651.3	654.2	653.6	654.7	655.3	657.5	662.2
37.5°	618.7	620.5	619.2	619.6	619.2	620.5	618.7	619.3	619.8	620.2	621.6
40°	595.9	595.9	595.9	597.6	595.9	595.9	595.9	594.2	594.8	594.2	594.2
42.5°	573.9	573.0	572.1	572.0	572.1	573.0	573.9	570.0	571.9	570.0	569.0
45°	536.5	538.2	538.7	535.9	538.7	538.2	536.5	535.3	533.6	533.0	532.4
47.5°	502.6	502.7	502.6	505.1	502.6	502.7	502.6	501.0	498.4	497.4	494.6
50°	478.8	477.6	478.8	477.6	478.8	477.6	478.8	475.9	474.2	471.3	469.1
52.5°	453.7	453.8	453.1	453.0	453.1	453.8	453.7	449.9	449.0	448.1	444.4
55°	414.2	415.3	414.7	414.7	414.7	415.3	414.2	411.9	411.4	407.9	404.5
57.5°	373.4	374.4	375.2	372.7	375.2	374.4	373.4	373.1	372.7	369.1	365.4
60°	345.1	347.9	347.3	346.2	347.3	347.9	345.1	345.6	344.0	341.6	339.3
62.5°	319.0	320.0	319.9	319.7	319.9	320.0	319.0	316.4	315.6	313.3	311.0
65°	278.8	279.9	278.2	279.9	278.2	279.9	278.8	277.1	273.1	271.9	269.7
67.5°	235.5	235.8	237.1	237.9	237.1	235.8	235.5	236.2	233.6	231.4	230.9
70°	208.5	207.9	209.7	211.4	209.7	207.9	208.5	207.4	205.7	204.0	201.6
72.5°	180.2	181.4	180.9	182.1	180.9	181.4	180.2	180.4	178.7	176.5	174.3
75°	138.8	140.5	140.0	141.7	140.0	140.5	138.8	140.0	138.8	136.6	134.2
77.5°	100.3	100.6	100.3	101.3	100.3	100.6	100.3	101.3	100.0	100.7	98.2
80°	76.5	75.4	74.3	76.5	74.3	75.4	76.5	76.5	74.8	76.5	74.8
82.5°	53.2	53.9	52.8	52.8	52.8	53.9	53.2	54.6	53.8	54.6	52.9
85°	24.5	24.0	22.8	22.8	22.8	24.0	24.5	24.5	26.3	25.1	25.1
87.5°	13.3	12.8	12.9	12.5	12.9	12.8	13.3	13.2	13.2	14.2	14.4
90°	43.3	43.6	43.8	44.2	43.8	43.6	43.3	43.0	43.1	43.7	44.3
92.5°	41.8	41.9	42.0	42.0	42.0	41.9	41.8	41.8	41.8	41.6	41.5
95°	82.2	81.6	81.0	80.5	81.0	81.6	82.2	82.7	83.1	83.1	83.1
97.5°	139.6	139.5	139.5	139.4	139.5	139.5	139.6	139.7	139.7	139.7	139.7
100°	178.7	178.4	178.1	177.8	178.1	178.4	178.7	179.0	179.1	179.1	179.1
102.5°	222.3	222.1	221.7	221.4	221.7	222.1	222.3	222.6	222.7	222.4	222.1
105°	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	287.8	287.3	286.7
107.5°	355.0	353.6	352.3	350.9	352.3	353.6	355.0	356.3	356.8	356.6	356.4
110°	402.3	401.5	400.6	399.8	400.6	401.5	402.3	403.2	403.7	403.7	403.7



TEST NUMBER: P331580-935

CATALOG NUMBER: S122DIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	448.4	447.8	447.1	446.5	447.1	447.8	448.4	449.0	449.7	450.4	451.1
115°	521.8	520.9	520.0	519.2	520.0	520.9	521.8	522.6	523.2	523.5	523.8
117.5°	591.1	590.2	589.4	588.5	589.4	590.2	591.1	591.9	592.8	593.5	594.2
120°	639.9	639.0	638.2	637.3	638.2	639.0	639.9	640.8	641.2	641.2	641.2
122.5°	687.0	686.4	685.7	685.1	685.7	686.4	687.0	687.6	688.3	689.0	689.7
125°	758.9	758.6	758.4	758.0	758.4	758.6	758.9	759.2	759.7	760.6	761.5
127.5°	827.2	826.3	825.4	824.5	825.4	826.3	827.2	828.2	829.1	830.2	831.2
130°	875.7	874.6	873.4	872.3	873.4	874.6	875.7	876.8	877.7	878.3	878.9
132.5°	920.8	919.8	918.9	917.9	918.9	919.8	920.8	921.6	922.7	924.0	925.3
135°	991.7	990.8	990.0	989.1	990.0	990.8	991.7	992.6	993.2	993.4	993.7
137.5°	1057.0	1055.8	1054.6	1053.4	1054.6	1055.8	1057.0	1058.1	1058.8	1059.0	1059.2
140°	1101.6	1100.4	1099.2	1098.1	1099.2	1100.4	1101.6	1102.8	1103.3	1103.3	1103.3
142.5°	1142.1	1140.9	1139.8	1138.6	1139.8	1140.9	1142.1	1143.2	1143.7	1143.5	1143.2
145°	1202.8	1201.7	1200.5	1199.4	1200.5	1201.7	1202.8	1203.9	1204.4	1204.1	1203.9
147.5°	1256.9	1255.8	1254.7	1253.6	1254.7	1255.8	1256.9	1258.0	1258.3	1257.6	1257.0
150°	1291.5	1290.6	1289.8	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4	1291.5	1290.6
152.5°	1325.4	1324.3	1323.3	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5	1325.4	1324.3
155°	1369.4	1368.6	1367.7	1366.8	1367.7	1368.6	1369.4	1370.3	1369.9	1368.6	1367.1
157.5°	1409.4	1408.0	1406.6	1405.2	1406.6	1408.0	1409.4	1410.7	1410.5	1408.5	1406.5
160°	1432.5	1431.4	1430.3	1429.1	1430.3	1431.4	1432.5	1433.7	1433.4	1431.7	1429.9
162.5°	1454.1	1452.7	1451.3	1449.8	1451.3	1452.7	1454.1	1455.4	1455.1	1453.2	1451.2
165°	1481.4	1480.1	1478.6	1477.1	1478.6	1480.1	1481.4	1482.9	1482.6	1480.6	1478.6
167.5°	1504.0	1502.4	1501.0	1499.4	1501.0	1502.4	1504.0	1505.5	1505.2	1503.2	1501.2
170°	1516.0	1514.3	1512.6	1510.9	1512.6	1514.3	1516.0	1517.8	1517.7	1515.6	1513.6
172.5°	1525.4	1523.7	1522.0	1520.3	1522.0	1523.7	1525.4	1527.2	1527.0	1525.0	1522.9
175°	1535.5	1533.8	1532.1	1530.3	1532.1	1533.8	1535.5	1537.3	1537.1	1535.1	1533.1
177.5°	1539.2	1537.8	1536.4	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6	1539.2	1537.8
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331580-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1428.5	1433.6	1441.3	1449.6	1454.6	1464.1	1466.9	1471.4	1475.6	1485.2	1495.2
5°	1346.0	1354.0	1372.9	1383.1	1397.4	1414.0	1424.9	1436.3	1448.9	1470.6	1490.6
7.5°	1257.6	1270.9	1294.3	1313.5	1333.9	1357.7	1374.8	1397.4	1416.2	1446.8	1476.0
10°	1198.6	1217.5	1238.6	1261.5	1290.0	1315.2	1339.2	1367.7	1390.6	1427.1	1461.5
12.5°	1145.6	1148.5	1178.7	1203.9	1242.9	1274.0	1301.7	1338.5	1360.9	1404.3	1440.4
15°	1052.9	1070.1	1097.5	1117.5	1163.7	1203.2	1242.1	1280.3	1306.1	1359.7	1407.1
17.5°	974.9	990.7	1018.7	1051.5	1084.8	1124.0	1174.3	1214.6	1249.6	1311.0	1367.0
20°	925.5	944.9	973.5	1007.2	1036.4	1079.2	1122.7	1168.9	1206.6	1275.7	1341.4
22.5°	883.5	898.8	921.9	955.1	987.0	1026.2	1073.8	1124.1	1163.6	1238.3	1304.8
25°	824.4	837.0	851.8	879.3	915.2	958.1	995.2	1050.7	1108.4	1178.0	1258.6
27.5°	771.2	780.1	793.2	817.3	845.2	885.3	926.5	979.1	1037.2	1112.8	1197.8
30°	738.7	744.4	757.6	777.6	804.9	836.4	878.1	928.4	987.8	1064.4	1148.9
32.5°	710.4	715.7	724.2	743.3	767.1	793.9	831.5	881.8	938.4	1013.7	1107.3
35°	667.9	671.8	679.3	694.7	707.8	734.2	765.6	811.2	864.4	936.4	1033.5
37.5°	625.5	630.9	635.5	642.0	658.9	676.2	703.5	742.1	794.3	866.9	959.5
40°	597.6	602.2	609.0	611.9	625.6	641.0	663.3	698.7	751.3	817.5	907.8
42.5°	569.3	573.9	577.9	581.3	593.1	606.7	626.7	657.1	703.8	768.2	857.6
45°	530.7	531.3	535.3	541.6	547.3	557.1	571.3	597.6	633.6	694.1	775.2
47.5°	491.6	492.3	493.0	495.8	502.0	510.8	520.4	541.7	573.9	622.2	701.2
50°	465.6	464.5	465.6	467.9	471.9	479.3	490.2	505.6	531.9	577.0	649.6
52.5°	440.5	440.2	439.5	440.5	443.6	448.7	456.3	469.5	493.0	534.5	598.4
55°	402.2	399.3	399.9	397.6	402.8	403.9	409.7	420.5	441.1	469.6	529.6
57.5°	361.4	359.0	356.5	355.9	355.3	358.4	363.0	371.6	387.4	412.3	461.1
60°	335.4	332.5	329.1	328.0	328.0	329.7	331.9	338.2	353.1	375.4	415.3
62.5°	308.8	305.6	303.5	300.5	299.6	301.4	303.6	308.1	318.8	339.7	374.2
65°	267.9	264.0	261.1	260.5	259.4	257.7	258.8	263.4	271.9	288.5	315.9
67.5°	227.0	223.2	222.5	219.1	217.6	217.7	217.6	221.4	226.6	240.9	261.3
70°	199.9	197.1	196.0	193.1	192.0	190.8	189.7	193.1	198.3	210.3	228.0
72.5°	172.5	170.1	167.6	165.2	165.5	164.3	164.1	166.2	170.4	181.4	195.0
75°	133.1	133.7	130.9	127.9	127.4	126.2	126.2	127.9	129.7	138.3	149.1
77.5°	96.5	96.1	93.7	92.8	92.2	90.9	92.2	93.3	94.3	100.0	108.0
80°	73.7	73.7	70.9	70.9	70.3	68.5	70.3	69.1	71.4	77.1	82.8
82.5°	52.7	51.7	51.7	50.7	50.6	49.3	50.2	51.3	52.2	56.1	59.5
85°	25.7	25.7	25.1	24.5	25.1	24.5	25.1	25.7	26.3	28.0	30.8
87.5°	14.5	15.1	14.2	13.4	12.1	11.4	10.8	10.6	10.8	10.6	10.3
90°	44.9	45.5	39.1	32.7	26.4	20.1	15.2	11.7	8.2	4.7	1.3
92.5°	41.4	41.2	39.8	38.3	36.8	35.3	33.2	30.7	28.2	25.7	23.1
95°	83.1	83.1	82.5	81.9	81.4	80.8	79.0	76.1	73.3	70.3	67.5
97.5°	139.7	139.7	138.5	137.5	136.4	135.3	133.5	131.0	128.4	125.9	123.3
100°	179.1	179.1	178.2	177.4	176.5	175.6	174.1	171.8	169.4	167.1	164.9
102.5°	222.0	221.7	220.6	219.5	218.4	217.3	215.9	214.0	212.2	210.3	208.4
105°	286.1	285.6	285.0	284.4	283.9	283.3	282.5	281.6	280.8	279.9	279.1
107.5°	356.1	355.9	355.9	355.9	355.9	355.9	355.2	354.0	352.8	351.5	350.2
110°	403.7	403.7	403.7	403.7	403.7	403.7	402.8	401.1	399.3	397.6	395.9



TEST NUMBER: P331580-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	451.8	452.5	452.7	453.0	453.1	453.4	452.6	450.9	449.2	447.5	445.7
115°	524.1	524.4	525.0	525.6	526.2	526.7	526.2	524.4	522.6	520.9	519.2
117.5°	594.9	595.6	597.1	598.7	600.4	602.0	601.7	599.3	597.0	594.7	592.5
120°	641.2	641.2	643.5	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2
122.5°	690.3	691.0	692.7	694.3	695.9	697.5	697.0	694.1	691.4	688.6	685.9
125°	762.3	763.2	764.1	765.0	765.9	766.7	765.9	763.2	760.6	758.0	755.4
127.5°	832.2	833.4	834.4	835.4	836.5	837.5	836.4	833.1	829.7	826.5	823.2
130°	879.5	880.0	880.6	881.2	881.8	882.4	880.8	877.0	873.3	869.5	865.7
132.5°	926.5	927.8	927.7	927.6	927.5	927.4	925.7	922.7	919.6	916.6	913.5
135°	994.0	994.3	993.7	993.2	992.6	992.0	990.1	986.9	983.8	980.6	977.4
137.5°	1059.5	1059.7	1058.9	1058.2	1057.5	1056.7	1055.0	1052.4	1049.8	1047.2	1044.7
140°	1103.3	1103.3	1101.9	1100.4	1099.0	1097.5	1095.5	1093.0	1090.4	1087.7	1085.1
142.5°	1143.0	1142.8	1141.8	1140.8	1139.8	1138.8	1137.0	1134.5	1131.9	1129.3	1126.7
145°	1203.5	1203.2	1201.5	1199.8	1198.1	1196.4	1194.5	1192.4	1190.4	1188.4	1186.4
147.5°	1256.4	1255.7	1254.6	1253.4	1252.2	1251.1	1249.3	1246.9	1244.4	1242.0	1239.6
150°	1289.8	1288.9	1287.8	1286.6	1285.5	1284.3	1282.9	1281.2	1279.4	1277.6	1275.9
152.5°	1323.3	1322.2	1320.8	1319.4	1318.0	1316.6	1315.1	1313.3	1311.6	1309.8	1308.1
155°	1365.6	1364.2	1363.3	1362.4	1361.6	1360.7	1359.9	1359.0	1358.1	1357.3	1356.4
157.5°	1404.5	1402.7	1402.1	1401.6	1401.1	1400.6	1400.0	1399.5	1398.9	1398.3	1397.7
160°	1428.2	1426.5	1426.2	1425.9	1425.6	1425.4	1425.0	1424.4	1423.7	1423.2	1422.6
162.5°	1449.2	1447.3	1447.0	1446.7	1446.4	1446.1	1446.0	1445.8	1445.7	1445.6	1445.4
165°	1476.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.7	1475.0	1475.2	1475.6	1475.8
167.5°	1499.2	1497.1	1497.2	1497.3	1497.3	1497.4	1497.8	1498.7	1499.5	1500.4	1501.2
170°	1511.6	1509.6	1509.8	1510.2	1510.5	1510.7	1511.3	1512.2	1513.0	1513.9	1514.8
172.5°	1521.0	1518.9	1519.2	1519.5	1519.8	1520.1	1520.7	1521.6	1522.4	1523.3	1524.1
175°	1531.1	1529.0	1529.7	1530.2	1530.8	1531.4	1532.1	1532.9	1533.8	1534.6	1535.5
177.5°	1536.4	1535.0	1535.5	1535.9	1536.4	1536.9	1537.5	1538.2	1538.9	1539.6	1540.2
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331580-935

CATALOG NUMBER: S122DIW-S865D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1494.4	1496.6	1503.9	1511.2	1519.5	1521.7	1525.4	1522.2	1521.3	1530.0	1536.4
5°	1498.6	1508.8	1528.9	1547.1	1562.5	1573.4	1584.8	1589.4	1597.9	1610.0	1624.8
7.5°	1493.7	1513.7	1545.2	1571.8	1600.9	1621.7	1638.1	1652.0	1669.0	1691.7	1716.5
10°	1488.2	1515.1	1553.4	1586.0	1621.3	1648.2	1670.5	1692.2	1717.4	1748.8	1781.3
12.5°	1478.3	1510.1	1558.0	1596.5	1641.9	1668.4	1698.4	1745.2	1772.2	1816.0	1861.8
15°	1458.0	1493.4	1560.2	1607.7	1659.1	1709.3	1764.8	1809.4	1853.9	1879.6	1944.2
17.5°	1428.0	1480.0	1553.9	1609.3	1674.6	1753.9	1816.1	1866.6	1918.0	1959.7	1992.1
20°	1403.7	1460.3	1544.8	1611.1	1688.8	1773.9	1845.4	1896.8	1941.3	1976.2	1996.1
22.5°	1373.1	1444.2	1526.6	1604.2	1703.4	1787.6	1862.7	1903.2	1940.4	1957.4	1965.1
25°	1324.9	1410.6	1503.7	1598.5	1710.5	1799.7	1868.2	1892.7	1903.6	1887.1	1859.6
27.5°	1272.9	1368.4	1477.3	1587.8	1706.2	1791.8	1841.0	1837.1	1818.7	1765.1	1722.3
30°	1234.1	1339.2	1456.3	1576.8	1695.7	1779.1	1807.7	1779.1	1737.3	1677.4	1616.3
32.5°	1193.3	1302.2	1433.9	1561.3	1676.5	1749.8	1756.0	1706.8	1642.3	1574.1	1497.9
35°	1131.8	1249.5	1391.7	1526.6	1635.6	1682.0	1654.5	1567.7	1491.2	1398.0	1294.0
37.5°	1062.2	1192.1	1334.8	1475.7	1574.5	1586.7	1518.5	1427.1	1319.1	1209.7	1087.4
40°	1010.1	1147.8	1294.6	1436.8	1524.2	1511.7	1424.9	1324.3	1195.8	1062.0	948.4
42.5°	963.5	1101.1	1250.7	1390.3	1460.3	1425.7	1324.3	1200.9	1062.7	936.9	832.8
45°	882.7	1024.3	1177.5	1312.3	1352.3	1290.0	1155.8	1018.6	882.7	777.6	695.3
47.5°	804.3	944.3	1096.0	1214.5	1228.6	1144.9	998.2	857.1	740.2	654.6	596.6
50°	746.7	887.3	1037.5	1143.2	1138.6	1037.5	886.7	752.4	654.7	585.6	546.7
52.5°	695.1	827.9	972.2	1068.2	1044.0	933.8	789.8	670.6	590.3	536.2	501.0
55°	614.8	737.5	874.7	951.8	907.2	785.0	663.3	567.3	507.9	467.4	439.9
57.5°	534.9	650.1	767.5	815.0	765.8	652.9	551.5	481.8	437.1	407.1	389.3
60°	485.6	586.2	690.7	731.8	673.0	572.5	492.5	430.2	394.2	369.6	353.6
62.5°	436.3	526.3	624.9	647.3	593.5	508.5	437.6	385.9	356.3	334.4	319.3
65°	369.1	442.7	517.6	532.4	482.8	417.1	361.1	327.4	301.1	285.1	273.1
67.5°	302.6	361.9	414.9	426.9	383.3	337.8	297.3	267.9	250.1	236.9	226.7
70°	263.4	310.2	353.6	363.3	328.5	287.9	257.1	233.7	217.7	206.2	196.6
72.5°	221.8	260.9	297.0	303.5	275.0	244.1	218.7	200.3	186.1	178.8	169.5
75°	169.7	192.5	220.5	222.2	203.4	184.5	165.1	153.1	145.7	136.6	132.0
77.5°	119.8	137.7	153.7	156.8	145.6	132.8	121.9	112.4	106.2	101.9	97.7
80°	91.4	105.7	112.5	116.6	108.6	99.4	93.2	86.9	82.8	80.0	77.1
82.5°	65.3	74.1	80.6	83.6	79.3	73.8	67.5	64.0	60.9	58.5	57.5
85°	33.1	37.1	41.2	42.3	41.2	38.8	35.4	35.4	33.7	33.1	33.1
87.5°	12.4	14.9	15.6	17.7	17.7	19.0	20.2	21.1	21.9	21.4	20.8
90°	4.7	8.2	11.7	15.2	20.1	26.4	32.7	39.1	45.5	44.9	44.3
92.5°	25.7	28.2	30.7	33.2	35.3	36.8	38.3	39.8	41.2	41.4	41.5
95°	70.3	73.3	76.1	79.0	80.8	81.4	81.9	82.5	83.1	83.1	83.1
97.5°	125.9	128.4	131.0	133.5	135.3	136.4	137.5	138.5	139.7	139.7	139.7
100°	167.1	169.4	171.8	174.1	175.6	176.5	177.4	178.2	179.1	179.1	179.1
102.5°	210.3	212.2	214.0	215.9	217.3	218.4	219.5	220.6	221.7	222.0	222.1
105°	279.9	280.8	281.6	282.5	283.3	283.9	284.4	285.0	285.6	286.1	286.7
107.5°	351.5	352.8	354.0	355.2	355.9	355.9	355.9	355.9	355.9	356.1	356.4
110°	397.6	399.3	401.1	402.8	403.7	403.7	403.7	403.7	403.7	403.7	403.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	447.5	449.2	450.9	452.6	453.4	453.1	453.0	452.7	452.5	451.8	451.1
115°	520.9	522.6	524.4	526.2	526.7	526.2	525.6	525.0	524.4	524.1	523.8
117.5°	594.7	597.0	599.3	601.7	602.0	600.4	598.7	597.1	595.6	594.9	594.2
120°	643.5	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2	641.2	641.2
122.5°	688.6	691.4	694.1	697.0	697.5	695.9	694.3	692.7	691.0	690.3	689.7
125°	758.0	760.6	763.2	765.9	766.7	765.9	765.0	764.1	763.2	762.3	761.5
127.5°	826.5	829.7	833.1	836.4	837.5	836.5	835.4	834.4	833.4	832.2	831.2
130°	869.5	873.3	877.0	880.8	882.4	881.8	881.2	880.6	880.0	879.5	878.9
132.5°	916.6	919.6	922.7	925.7	927.4	927.5	927.6	927.7	927.8	926.5	925.3
135°	980.6	983.8	986.9	990.1	992.0	992.6	993.2	993.7	994.3	994.0	993.7
137.5°	1047.2	1049.8	1052.4	1055.0	1056.7	1057.5	1058.2	1058.9	1059.7	1059.5	1059.2
140°	1087.7	1090.4	1093.0	1095.5	1097.5	1099.0	1100.4	1101.9	1103.3	1103.3	1103.3
142.5°	1129.3	1131.9	1134.5	1137.0	1138.8	1139.8	1140.8	1141.8	1142.8	1143.0	1143.2
145°	1188.4	1190.4	1192.4	1194.5	1196.4	1198.1	1199.8	1201.5	1203.2	1203.5	1203.9
147.5°	1242.0	1244.4	1246.9	1249.3	1251.1	1252.2	1253.4	1254.6	1255.7	1256.4	1257.0
150°	1277.6	1279.4	1281.2	1282.9	1284.3	1285.5	1286.6	1287.8	1288.9	1289.8	1290.6
152.5°	1309.8	1311.6	1313.3	1315.1	1316.6	1318.0	1319.4	1320.8	1322.2	1323.3	1324.3
155°	1357.3	1358.1	1359.0	1359.9	1360.7	1361.6	1362.4	1363.3	1364.2	1365.6	1367.1
157.5°	1398.3	1398.9	1399.5	1400.0	1400.6	1401.1	1401.6	1402.1	1402.7	1404.5	1406.5
160°	1423.2	1423.7	1424.4	1425.0	1425.4	1425.6	1425.9	1426.2	1426.5	1428.2	1429.9
162.5°	1445.6	1445.7	1445.8	1446.0	1446.1	1446.4	1446.7	1447.0	1447.3	1449.2	1451.2
165°	1475.6	1475.2	1475.0	1474.7	1474.5	1474.5	1474.5	1474.5	1474.5	1476.5	1478.6
167.5°	1500.4	1499.5	1498.7	1497.8	1497.4	1497.3	1497.3	1497.2	1497.1	1499.2	1501.2
170°	1513.9	1513.0	1512.2	1511.3	1510.7	1510.5	1510.2	1509.8	1509.6	1511.6	1513.6
172.5°	1523.3	1522.4	1521.6	1520.7	1520.1	1519.8	1519.5	1519.2	1518.9	1521.0	1522.9
175°	1534.6	1533.8	1532.9	1532.1	1531.4	1530.8	1530.2	1529.7	1529.0	1531.1	1533.1
177.5°	1539.6	1538.9	1538.2	1537.5	1536.9	1536.4	1535.9	1535.5	1535.0	1536.4	1537.8
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1541.9	1548.3	1548.3	1549.2	1556.5	1555.6	1555.1
5°	1640.8	1650.5	1651.7	1662.0	1668.8	1666.6	1660.3
7.5°	1734.1	1752.2	1765.9	1773.6	1782.6	1788.2	1785.7
10°	1808.2	1834.4	1850.5	1861.3	1874.5	1884.2	1880.8
12.5°	1875.4	1906.7	1928.6	1947.2	1949.0	1961.4	1953.0
15°	1980.2	2013.3	2016.7	2030.4	2041.3	2040.1	2040.7
17.5°	2014.8	2025.4	2027.6	2027.9	2028.1	2024.0	2015.3
20°	2002.4	1998.5	1988.7	1981.3	1968.2	1966.4	1955.1
22.5°	1944.0	1931.3	1906.9	1890.8	1870.4	1865.0	1861.8
25°	1828.8	1800.8	1762.0	1724.8	1714.5	1694.5	1700.2
27.5°	1670.8	1627.1	1585.0	1554.9	1527.6	1497.6	1506.2
30°	1559.7	1510.5	1451.1	1405.4	1376.3	1347.7	1342.6
32.5°	1427.1	1355.1	1288.9	1248.6	1204.0	1185.9	1166.1
35°	1198.6	1128.3	1062.6	1006.1	973.5	948.4	925.5
37.5°	993.1	912.1	859.1	813.3	789.8	775.4	779.0
40°	865.6	794.7	755.9	721.0	699.3	689.0	691.3
42.5°	762.2	709.2	677.3	653.3	638.0	632.3	630.9
45°	645.0	615.3	589.0	575.3	567.9	561.6	557.6
47.5°	565.0	540.8	526.0	517.8	511.3	504.9	504.8
50°	517.0	501.0	490.8	482.2	477.1	472.5	476.5
52.5°	480.4	465.9	455.6	447.9	446.0	441.9	441.8
55°	426.2	414.7	407.3	400.5	397.1	394.8	391.9
57.5°	376.9	366.0	359.1	354.8	348.3	345.9	345.1
60°	341.6	333.0	326.2	320.5	317.6	313.1	313.1
62.5°	309.2	300.7	294.2	289.9	285.2	283.4	283.9
65°	262.3	255.4	249.1	244.5	243.4	240.0	241.1
67.5°	219.0	214.5	207.8	205.3	203.2	201.3	199.9
70°	190.3	185.7	182.3	178.8	177.1	177.1	177.1
72.5°	166.0	160.6	158.5	154.1	155.2	153.3	151.5
75°	128.5	125.1	123.4	121.7	118.8	118.8	118.8
77.5°	94.6	93.6	91.5	89.7	89.0	88.4	88.7
80°	73.1	72.6	71.4	71.4	70.3	69.7	68.5
82.5°	56.2	54.8	54.1	53.6	53.4	53.2	53.0
85°	32.0	30.8	30.8	31.4	30.3	30.3	30.8
87.5°	21.1	20.9	20.5	20.6	21.1	20.7	20.8
90°	43.7	43.1	43.0	43.3	43.6	43.8	44.2
92.5°	41.6	41.8	41.8	41.8	41.9	42.0	42.0
95°	83.1	83.1	82.7	82.2	81.6	81.0	80.5
97.5°	139.7	139.7	139.7	139.6	139.5	139.5	139.4
100°	179.1	179.1	179.0	178.7	178.4	178.1	177.8
102.5°	222.4	222.7	222.6	222.3	222.1	221.7	221.4
105°	287.3	287.8	288.2	288.2	288.2	288.2	288.2
107.5°	356.6	356.8	356.3	355.0	353.6	352.3	350.9
110°	403.7	403.7	403.2	402.3	401.5	400.6	399.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	450.4	449.7	449.0	448.4	447.8	447.1	446.5
115°	523.5	523.2	522.6	521.8	520.9	520.0	519.2
117.5°	593.5	592.8	591.9	591.1	590.2	589.4	588.5
120°	641.2	641.2	640.8	639.9	639.0	638.2	637.3
122.5°	689.0	688.3	687.6	687.0	686.4	685.7	685.1
125°	760.6	759.7	759.2	758.9	758.6	758.4	758.0
127.5°	830.2	829.1	828.2	827.2	826.3	825.4	824.5
130°	878.3	877.7	876.8	875.7	874.6	873.4	872.3
132.5°	924.0	922.7	921.6	920.8	919.8	918.9	917.9
135°	993.4	993.2	992.6	991.7	990.8	990.0	989.1
137.5°	1059.0	1058.8	1058.1	1057.0	1055.8	1054.6	1053.4
140°	1103.3	1103.3	1102.8	1101.6	1100.4	1099.2	1098.1
142.5°	1143.5	1143.7	1143.2	1142.1	1140.9	1139.8	1138.6
145°	1204.1	1204.4	1203.9	1202.8	1201.7	1200.5	1199.4
147.5°	1257.6	1258.3	1258.0	1256.9	1255.8	1254.7	1253.6
150°	1291.5	1292.4	1292.4	1291.5	1290.6	1289.8	1288.9
152.5°	1325.4	1326.5	1326.5	1325.4	1324.3	1323.3	1322.2
155°	1368.6	1369.9	1370.3	1369.4	1368.6	1367.7	1366.8
157.5°	1408.5	1410.5	1410.7	1409.4	1408.0	1406.6	1405.2
160°	1431.7	1433.4	1433.7	1432.5	1431.4	1430.3	1429.1
162.5°	1453.2	1455.1	1455.4	1454.1	1452.7	1451.3	1449.8
165°	1480.6	1482.6	1482.9	1481.4	1480.1	1478.6	1477.1
167.5°	1503.2	1505.2	1505.5	1504.0	1502.4	1501.0	1499.4
170°	1515.6	1517.7	1517.8	1516.0	1514.3	1512.6	1510.9
172.5°	1525.0	1527.0	1527.2	1525.4	1523.7	1522.0	1520.3
175°	1535.1	1537.1	1537.3	1535.5	1533.8	1532.1	1530.3
177.5°	1539.2	1540.6	1540.6	1539.2	1537.8	1536.4	1535.0
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2

(END OF REPORT)