

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: P331604

Luminaire Tested: **S122DIW-S1005D1240U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331604
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-S1005D1240U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8701.8 lumens
Efficiency: N/A
Efficacy: 114.2 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

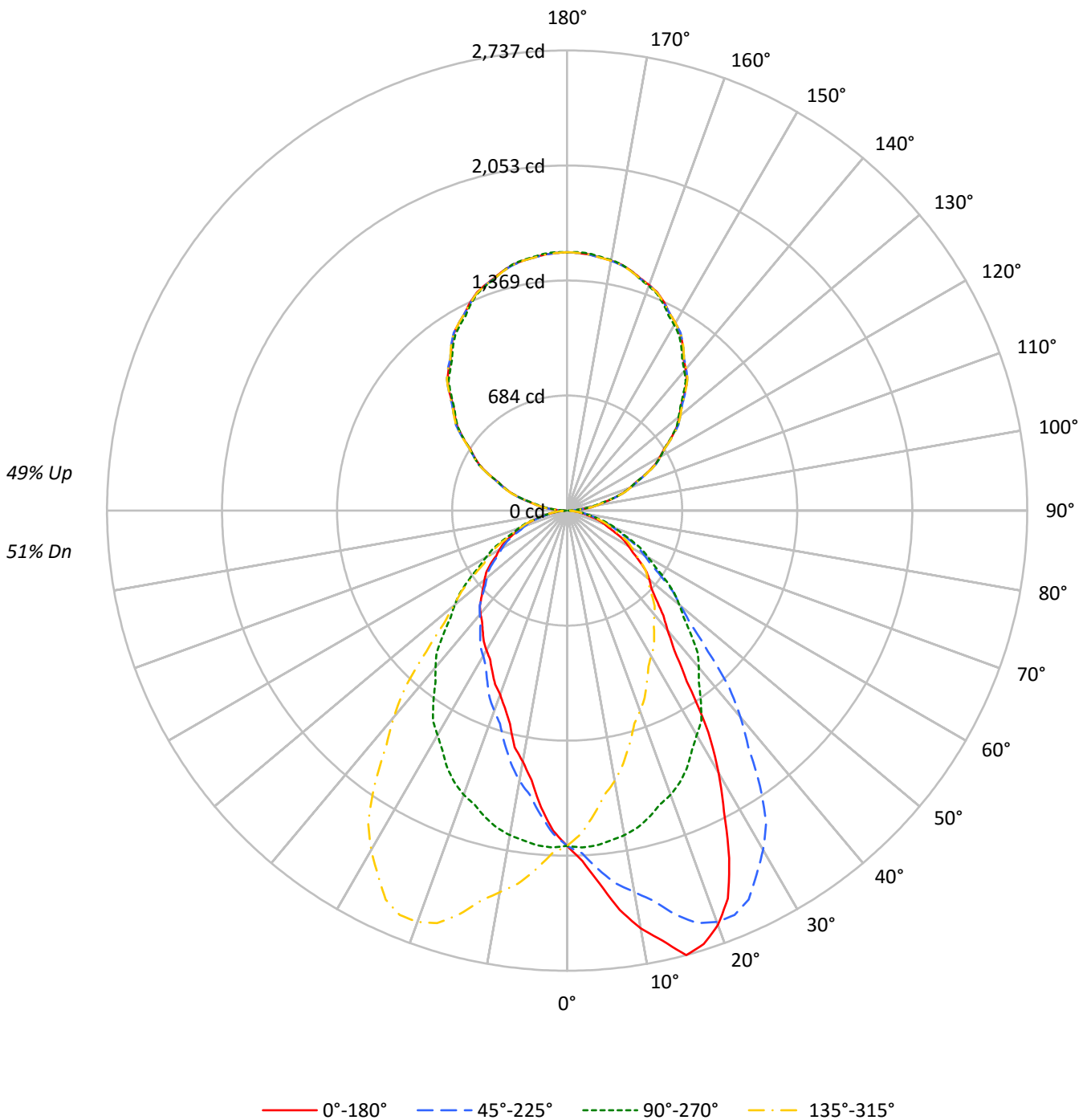
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	91	87	91	87	84	81	74	72	70	62	60	59	51	50	49	44
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	43	42	37
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	45	64	54	47	42	47	41	37	40	36	32	33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	60	48	40	34	55	44	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	22	20	18
9	52	40	32	27	48	37	31	26	32	27	23	28	24	21	24	21	18	16
10	48	36	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32195	32195	32195	32195
5°	36094	32405	28716	32405
10°	41361	32139	24851	32139
15°	45757	31550	21956	31550
20°	45060	30917	20015	30917
25°	40631	30077	18786	30077
30°	33575	28732	17889	28732
35°	24471	27325	17251	27325
40°	19545	25665	16895	25665
45°	17080	23745	16413	23745
50°	16053	21886	16093	21886
55°	14798	19997	15662	19997
60°	13563	17990	14996	17990
65°	12355	16191	14346	16191
70°	11216	14436	13388	14436
75°	9944	12477	11859	12477
80°	8554	10330	9549	10330
85°	7669	7669	5687	7669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	2.2
10°-20°	552.1	6.3
20°-30°	801.2	9.2
30°-40°	845.5	9.7
40°-50°	748.6	8.6
50°-60°	597.4	6.9
60°-70°	406.1	4.7
70°-80°	208.2	2.4
80°-90°	56.3	0.6
90°-100°	97.4	1.1
100°-110°	302.4	3.5
110°-120°	516.9	5.9
120°-130°	679.7	7.8
130°-140°	762.9	8.8
140°-150°	748.1	8.6
150°-160°	627.4	7.2
160°-170°	416.2	4.8
170°-180°	145.5	1.7
0°-30°	1543.2	17.7
0°-40°	2388.7	27.5
0°-60°	3734.8	42.9
0°-90°	4405.4	50.6
90°-120°	916.6	10.5
90°-150°	3107.4	35.7
90°-180°	4296.0	49.4
0°-180°	8701.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1994	1994	1994	1994	1994	
5°	2227	1999	1772	1999	2227	222
15°	2737	1888	1314	1888	2737	755
25°	2281	1688	1054	1688	2281	1031
35°	1242	1386	875	1386	1242	807
45°	748	1040	719	1040	748	588
55°	526	710	556	710	526	471
65°	323	424	376	424	323	322
75°	159	200	190	200	159	170
85°	41	41	31	41	41	46
90°	44	1	44	1	44	21
95°	80	67	80	67	80	90
105°	288	279	288	279	288	303
115°	519	519	519	519	519	512
125°	757	755	757	755	757	675
135°	988	976	988	976	988	761
145°	1198	1185	1198	1185	1198	748
155°	1365	1355	1365	1355	1365	628
165°	1476	1474	1476	1474	1476	416
175°	1529	1534	1529	1534	1529	145
180°	1536	1536	1536	1536	1536	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2086.0	2086.6	2087.8	2078.0	2076.8	2076.8	2068.2	2060.9	2052.3	2040.6	2041.9
5°	2227.0	2235.4	2238.5	2229.3	2215.5	2214.0	2201.0	2179.5	2159.6	2143.5	2132.0
7.5°	2395.3	2398.7	2391.2	2379.1	2368.8	2350.4	2326.2	2302.4	2269.2	2238.7	2216.0
10°	2522.8	2527.4	2514.4	2496.8	2482.2	2460.8	2425.5	2389.5	2345.8	2303.7	2269.9
12.5°	2619.7	2631.0	2614.3	2612.0	2587.1	2557.6	2515.6	2497.4	2435.9	2377.2	2341.1
15°	2737.4	2736.6	2738.2	2723.6	2705.2	2700.6	2656.2	2607.9	2521.3	2486.8	2427.0
17.5°	2703.4	2715.0	2720.4	2720.2	2719.8	2716.9	2702.6	2672.1	2628.7	2572.8	2503.8
20°	2622.5	2637.8	2640.1	2657.7	2667.7	2680.7	2686.1	2677.6	2650.8	2604.1	2544.3
22.5°	2497.4	2501.7	2508.9	2536.3	2557.9	2590.6	2607.6	2635.9	2625.7	2602.8	2552.9
25°	2280.7	2273.0	2299.8	2313.6	2363.4	2415.5	2453.1	2494.5	2531.3	2553.5	2538.9
27.5°	2020.4	2008.9	2049.1	2085.7	2126.2	2182.6	2241.1	2310.2	2367.7	2439.6	2464.3
30°	1800.9	1807.8	1846.1	1885.2	1946.5	2026.2	2092.1	2168.0	2250.0	2330.5	2386.4
32.5°	1564.3	1590.8	1615.0	1674.9	1728.9	1817.8	1914.3	2009.2	2111.5	2203.0	2289.6
35°	1241.5	1272.1	1305.9	1349.5	1425.4	1513.5	1607.8	1735.8	1875.3	2000.2	2102.9
37.5°	1045.0	1040.1	1059.4	1091.0	1152.4	1223.6	1332.1	1458.5	1622.7	1769.5	1914.3
40°	927.3	924.2	938.0	967.1	1013.9	1066.0	1161.0	1272.1	1424.6	1604.0	1776.4
42.5°	846.4	848.2	855.9	876.4	908.4	951.3	1022.5	1117.0	1256.7	1425.6	1610.9
45°	748.0	753.3	761.8	771.7	790.1	825.4	865.2	932.7	1043.0	1184.0	1366.4
47.5°	677.1	677.3	685.9	694.6	705.5	725.4	757.9	800.2	878.1	992.9	1149.7
50°	639.1	633.8	639.9	646.8	658.3	672.1	693.5	733.4	785.5	878.2	1009.3
52.5°	592.5	592.7	598.2	600.8	611.1	624.9	644.5	672.1	719.3	791.8	899.5
55°	525.7	529.5	532.6	537.2	546.4	556.4	571.7	590.1	626.9	681.3	761.0
57.5°	462.9	464.1	467.2	475.9	481.7	490.9	505.5	522.2	546.1	586.4	646.3
60°	420.0	420.0	426.1	429.9	437.6	446.8	458.3	474.4	495.8	528.8	577.1
62.5°	380.7	380.1	382.6	388.8	394.7	403.3	414.7	428.4	448.6	477.9	517.6
65°	323.4	321.9	326.5	328.0	334.1	342.6	351.8	366.3	382.4	403.9	439.1
67.5°	268.2	270.1	272.5	275.4	278.8	287.7	293.8	304.1	317.7	335.5	359.4
70°	237.6	237.6	237.6	239.9	244.5	249.1	255.2	263.6	276.7	292.0	313.4
72.5°	203.2	205.7	208.1	206.8	212.6	215.3	222.7	227.5	239.9	249.7	268.7
75°	159.4	159.4	159.4	163.2	165.5	167.8	172.4	177.0	183.2	195.4	205.4
77.5°	118.9	118.6	119.4	120.3	122.8	125.5	126.9	131.0	136.7	142.4	150.8
80°	92.0	93.5	94.3	95.8	95.8	97.3	98.1	103.5	107.3	111.1	116.5
82.5°	71.1	71.4	71.6	71.9	72.5	73.4	75.4	77.1	78.5	81.7	85.8
85°	41.4	40.6	40.6	42.1	41.4	41.4	42.9	44.4	44.4	45.2	47.5
87.5°	24.8	24.7	25.3	24.6	24.5	25.2	25.3	24.8	25.5	26.2	25.6
90°	44.1	43.8	43.5	43.2	42.9	43.1	43.7	44.2	44.8	45.4	39.0
92.5°	42.0	42.0	41.9	41.8	41.8	41.7	41.6	41.5	41.3	41.2	39.7
95°	80.4	81.0	81.5	82.1	82.7	83.0	83.0	83.0	83.0	83.0	82.4
97.5°	139.3	139.3	139.4	139.4	139.5	139.5	139.5	139.5	139.5	139.5	138.4
100°	177.6	177.9	178.2	178.5	178.8	178.9	178.9	178.9	178.9	178.9	178.1
102.5°	221.2	221.5	221.8	222.1	222.4	222.4	222.2	221.9	221.7	221.5	220.4
105°	287.9	287.9	287.9	287.9	287.9	287.6	287.0	286.4	285.8	285.3	284.7
107.5°	350.6	351.9	353.3	354.6	355.9	356.5	356.2	356.0	355.8	355.5	355.5
110°	399.4	400.2	401.1	402.0	402.8	403.3	403.3	403.3	403.3	403.3	403.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.0	446.7	447.3	447.9	448.6	449.2	449.9	450.6	451.3	452.0	452.2
115°	518.7	519.5	520.4	521.3	522.1	522.7	523.0	523.3	523.6	523.8	524.4
117.5°	587.9	588.8	589.6	590.5	591.4	592.1	592.8	593.5	594.2	594.9	596.5
120°	636.7	637.5	638.4	639.2	640.1	640.5	640.5	640.5	640.5	640.5	642.8
122.5°	684.4	685.0	685.6	686.3	686.9	687.6	688.3	689.0	689.6	690.3	691.9
125°	757.2	757.5	757.8	758.1	758.4	759.0	759.8	760.7	761.6	762.4	763.3
127.5°	823.6	824.6	825.5	826.4	827.3	828.3	829.3	830.4	831.4	832.4	833.5
130°	871.3	872.5	873.7	874.8	876.0	876.8	877.4	878.0	878.5	879.1	879.7
132.5°	917.0	917.9	918.8	919.8	920.7	921.8	923.0	924.3	925.6	926.8	926.7
135°	988.0	988.9	989.8	990.6	991.5	992.1	992.4	992.7	992.9	993.2	992.7
137.5°	1052.4	1053.5	1054.7	1055.8	1057.0	1057.7	1057.9	1058.1	1058.4	1058.6	1057.8
140°	1097.0	1098.1	1099.3	1100.4	1101.6	1102.1	1102.1	1102.1	1102.1	1102.1	1100.7
142.5°	1137.4	1138.6	1139.7	1140.9	1142.0	1142.5	1142.3	1142.0	1141.8	1141.6	1140.6
145°	1198.1	1199.3	1200.4	1201.6	1202.7	1203.1	1202.9	1202.6	1202.3	1202.0	1200.3
147.5°	1252.3	1253.4	1254.5	1255.6	1256.7	1256.9	1256.3	1255.6	1255.0	1254.4	1253.2
150°	1287.6	1288.4	1289.3	1290.2	1291.0	1291.0	1290.2	1289.3	1288.4	1287.6	1286.4
152.5°	1320.8	1321.9	1323.0	1324.0	1325.1	1325.1	1324.0	1323.0	1321.9	1320.8	1319.4
155°	1365.4	1366.2	1367.1	1368.0	1368.8	1368.5	1367.1	1365.7	1364.2	1362.8	1361.9
157.5°	1403.7	1405.1	1406.5	1407.9	1409.3	1409.0	1407.0	1405.1	1403.1	1401.2	1400.6
160°	1427.6	1428.8	1429.9	1431.1	1432.2	1431.9	1430.2	1428.5	1426.7	1425.0	1424.7
162.5°	1448.4	1449.7	1451.1	1452.5	1453.9	1453.6	1451.6	1449.7	1447.7	1445.8	1445.5
165°	1475.6	1477.0	1478.5	1479.9	1481.3	1481.1	1479.0	1477.0	1475.0	1473.0	1473.0
167.5°	1497.9	1499.4	1500.9	1502.4	1503.9	1503.6	1501.6	1499.6	1497.6	1495.5	1495.6
170°	1509.3	1511.0	1512.8	1514.5	1516.2	1516.1	1514.0	1512.0	1510.0	1508.0	1508.3
172.5°	1518.6	1520.4	1522.1	1523.8	1525.5	1525.4	1523.4	1521.4	1519.4	1517.3	1517.6
175°	1528.7	1530.5	1532.2	1533.9	1535.7	1535.5	1533.5	1531.5	1529.5	1527.4	1528.0
177.5°	1533.4	1534.8	1536.2	1537.6	1538.9	1538.9	1537.6	1536.2	1534.8	1533.4	1533.9
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2046.2	2041.3	2038.2	2027.2	2017.3	2007.5	2004.5	2005.7	1992.2	1979.3	1973.8
5°	2125.9	2110.5	2096.0	2075.3	2050.8	2023.9	2010.1	1999.4	1972.6	1943.5	1926.6
7.5°	2197.3	2175.4	2147.3	2108.4	2072.7	2030.5	2003.7	1979.9	1940.7	1899.6	1874.5
10°	2240.8	2210.9	2174.9	2127.4	2083.7	2032.4	1996.3	1960.3	1914.3	1865.3	1834.6
12.5°	2278.2	2237.9	2202.5	2141.5	2089.8	2025.6	1982.9	1932.1	1883.7	1825.4	1795.4
15°	2367.3	2292.9	2225.5	2156.5	2092.9	2003.2	1955.7	1887.5	1823.9	1751.9	1717.4
17.5°	2436.1	2352.5	2246.3	2158.7	2084.5	1985.2	1915.4	1833.7	1758.5	1676.2	1629.3
20°	2475.3	2379.5	2265.3	2161.1	2072.2	1958.8	1882.9	1799.4	1711.3	1618.5	1568.0
22.5°	2498.6	2397.9	2285.0	2151.9	2047.7	1937.3	1841.8	1750.3	1661.0	1560.9	1507.9
25°	2506.0	2414.0	2294.5	2144.3	2017.0	1892.1	1777.2	1688.3	1580.2	1486.7	1409.3
27.5°	2469.5	2403.6	2288.6	2129.8	1981.6	1835.6	1707.4	1606.7	1492.7	1391.2	1313.4
30°	2424.7	2386.4	2274.5	2115.1	1953.4	1796.3	1655.3	1541.1	1427.7	1325.0	1245.3
32.5°	2355.5	2347.2	2248.8	2094.3	1923.4	1746.7	1600.8	1485.3	1359.7	1258.8	1182.8
35°	2219.4	2256.1	2194.1	2047.7	1866.8	1676.0	1518.1	1386.3	1256.1	1159.5	1088.2
37.5°	2037.0	2128.3	2112.1	1979.5	1790.5	1599.1	1424.8	1287.0	1162.9	1065.4	995.5
40°	1911.3	2027.8	2044.6	1927.4	1736.6	1539.6	1354.9	1217.7	1096.6	1007.8	937.2
42.5°	1776.4	1912.5	1958.8	1864.8	1677.7	1477.1	1292.4	1150.3	1030.4	944.0	881.5
45°	1550.3	1730.4	1814.0	1760.3	1579.5	1374.1	1184.0	1039.9	931.1	849.9	801.6
47.5°	1339.0	1535.8	1648.1	1629.1	1470.2	1266.8	1078.9	940.6	834.7	769.9	726.7
50°	1189.4	1391.7	1527.3	1533.5	1391.7	1190.1	1001.6	871.3	774.0	713.5	678.2
52.5°	1059.4	1252.5	1400.4	1432.9	1304.0	1110.4	932.3	802.7	717.0	661.4	629.8
55°	889.7	1053.0	1217.0	1276.7	1173.3	989.4	824.6	710.4	629.9	591.6	564.0
57.5°	739.7	875.8	1027.2	1093.3	1029.5	872.1	717.6	618.4	553.2	519.6	498.4
60°	660.6	767.9	902.8	981.7	926.5	786.3	651.4	557.1	503.5	473.6	453.7
62.5°	587.0	682.1	796.1	868.3	838.2	706.0	585.2	502.0	455.7	427.6	413.2
65°	484.3	559.4	647.6	714.2	694.3	593.9	495.1	423.8	387.0	364.8	353.3
67.5°	398.8	453.1	514.2	572.6	556.5	485.4	406.0	350.5	323.1	303.9	297.0
70°	344.9	386.2	440.7	487.4	474.4	416.1	353.3	305.8	282.0	265.9	259.0
72.5°	293.4	327.4	368.9	407.1	398.3	349.9	297.5	261.6	243.4	228.5	222.9
75°	221.5	247.5	272.8	298.1	295.8	258.3	227.6	200.0	185.5	174.0	171.7
77.5°	163.5	178.1	195.3	210.3	206.1	184.7	160.6	144.8	134.1	126.4	125.2
80°	124.9	133.3	145.6	156.3	151.0	141.8	122.6	111.1	103.5	95.8	92.7
82.5°	90.6	99.0	106.4	112.2	108.1	99.5	87.7	79.9	75.3	70.0	68.8
85°	47.5	52.1	55.2	56.7	55.2	49.8	44.4	41.4	37.6	35.3	34.5
87.5°	24.9	23.7	22.4	22.6	20.1	19.4	16.3	13.7	13.8	13.9	13.4
90°	32.7	26.4	20.0	15.1	11.7	8.2	4.8	1.3	4.8	8.2	11.7
92.5°	38.2	36.7	35.2	33.2	30.7	28.2	25.6	23.1	25.6	28.2	30.7
95°	81.8	81.3	80.7	79.0	76.1	73.2	70.3	67.4	70.3	73.2	76.1
97.5°	137.3	136.2	135.1	133.3	130.8	128.3	125.7	123.2	125.7	128.3	130.8
100°	177.2	176.3	175.5	173.9	171.6	169.3	167.0	164.7	167.0	169.3	171.6
102.5°	219.3	218.2	217.1	215.6	213.8	211.9	210.1	208.2	210.1	211.9	213.8
105°	284.1	283.5	283.0	282.2	281.4	280.5	279.6	278.8	279.6	280.5	281.4
107.5°	355.5	355.5	355.5	354.9	353.6	352.4	351.1	349.8	351.1	352.4	353.6
110°	403.3	403.3	403.3	402.4	400.7	398.9	397.2	395.5	397.2	398.9	400.7



TEST NUMBER: P331604

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	452.5	452.7	452.9	452.2	450.5	448.7	447.0	445.3	447.0	448.7	450.5
115°	525.0	525.6	526.1	525.6	523.8	522.1	520.4	518.7	520.4	522.1	523.8
117.5°	598.1	599.7	601.4	601.0	598.7	596.4	594.1	591.8	594.1	596.4	598.7
120°	645.2	647.5	649.8	649.8	647.5	645.2	642.8	640.5	642.8	645.2	647.5
122.5°	693.6	695.2	696.8	696.2	693.4	690.7	687.9	685.1	687.9	690.7	693.4
125°	764.2	765.0	765.9	765.0	762.4	759.8	757.2	754.6	757.2	759.8	762.4
127.5°	834.5	835.6	836.6	835.5	832.2	828.9	825.6	822.3	825.6	828.9	832.2
130°	880.3	880.9	881.4	879.8	876.1	872.4	868.6	864.9	868.6	872.4	876.1
132.5°	926.6	926.5	926.4	924.8	921.7	918.7	915.6	912.6	915.6	918.7	921.7
135°	992.1	991.5	990.9	989.1	985.9	982.7	979.5	976.4	979.5	982.7	985.9
137.5°	1057.1	1056.3	1055.6	1053.9	1051.3	1048.7	1046.1	1043.5	1046.1	1048.7	1051.3
140°	1099.3	1097.8	1096.4	1094.4	1091.8	1089.2	1086.6	1084.0	1086.6	1089.2	1091.8
142.5°	1139.6	1138.6	1137.6	1135.9	1133.3	1130.7	1128.1	1125.5	1128.1	1130.7	1133.3
145°	1198.5	1196.8	1195.1	1193.2	1191.2	1189.2	1187.2	1185.1	1187.2	1189.2	1191.2
147.5°	1252.1	1250.9	1249.8	1248.0	1245.6	1243.1	1240.7	1238.3	1240.7	1243.1	1245.6
150°	1285.3	1284.1	1283.0	1281.5	1279.8	1278.1	1276.3	1274.6	1276.3	1278.1	1279.8
152.5°	1318.0	1316.6	1315.2	1313.7	1311.9	1310.2	1308.5	1306.8	1308.5	1310.2	1311.9
155°	1361.0	1360.2	1359.3	1358.5	1357.6	1356.7	1355.9	1355.0	1355.9	1356.7	1357.6
157.5°	1400.1	1399.6	1399.1	1398.5	1398.0	1397.4	1396.8	1396.2	1396.8	1397.4	1398.0
160°	1424.4	1424.1	1423.9	1423.4	1422.9	1422.3	1421.7	1421.1	1421.7	1422.3	1422.9
162.5°	1445.2	1444.9	1444.6	1444.4	1444.3	1444.2	1444.1	1443.9	1444.1	1444.2	1444.3
165°	1473.0	1473.0	1473.0	1473.1	1473.4	1473.7	1474.0	1474.3	1474.0	1473.7	1473.4
167.5°	1495.7	1495.7	1495.8	1496.2	1497.1	1498.0	1498.8	1499.7	1498.8	1498.0	1497.1
170°	1508.6	1508.9	1509.2	1509.7	1510.6	1511.5	1512.3	1513.2	1512.3	1511.5	1510.6
172.5°	1517.9	1518.2	1518.5	1519.1	1519.9	1520.8	1521.7	1522.5	1521.7	1520.8	1519.9
175°	1528.6	1529.2	1529.8	1530.5	1531.3	1532.2	1533.1	1533.9	1533.1	1532.2	1531.3
177.5°	1534.3	1534.8	1535.3	1535.8	1536.5	1537.2	1537.9	1538.6	1537.9	1537.2	1536.5
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331604

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1967.7	1964.0	1951.1	1944.4	1933.4	1922.9	1916.2	1919.3	1921.7	1920.5	1918.6
5°	1911.3	1896.7	1874.5	1855.3	1841.5	1816.3	1805.5	1800.2	1795.6	1790.2	1784.8
7.5°	1844.1	1821.2	1789.3	1762.0	1736.2	1704.8	1686.9	1676.2	1665.1	1653.0	1642.3
10°	1796.3	1764.1	1730.4	1692.1	1661.5	1633.1	1607.8	1590.9	1575.6	1561.1	1550.3
12.5°	1746.1	1709.0	1667.3	1614.9	1581.1	1540.5	1536.7	1507.0	1483.0	1474.0	1461.4
15°	1666.0	1613.9	1561.1	1499.0	1472.2	1435.4	1412.4	1389.4	1368.7	1354.1	1350.3
17.5°	1575.2	1507.7	1455.1	1410.5	1366.6	1328.9	1307.7	1289.3	1272.3	1252.8	1250.2
20°	1505.9	1447.6	1390.2	1351.1	1305.9	1267.5	1241.5	1223.1	1208.5	1197.0	1187.1
22.5°	1440.3	1376.5	1323.9	1281.2	1236.6	1205.6	1185.1	1167.3	1155.2	1142.5	1133.1
25°	1335.0	1285.2	1227.7	1179.4	1142.6	1122.7	1105.8	1090.5	1082.9	1074.4	1063.7
27.5°	1242.9	1187.5	1133.7	1096.3	1064.0	1046.4	1034.4	1024.0	1016.8	1011.9	1005.8
30°	1177.9	1121.9	1079.8	1043.0	1016.2	998.6	990.9	984.8	976.3	973.3	970.2
32.5°	1115.3	1064.9	1028.9	997.0	971.4	959.9	952.9	947.4	940.8	937.7	931.6
35°	1026.9	984.8	949.5	931.9	911.2	901.2	895.9	888.2	882.1	879.0	878.2
37.5°	943.7	907.1	883.9	861.2	852.5	846.4	839.0	833.8	832.0	831.5	830.7
40°	889.7	859.8	839.2	820.8	816.9	807.7	801.6	797.0	797.0	797.8	797.0
42.5°	840.7	813.9	795.6	779.7	775.2	769.7	763.6	763.3	764.5	767.1	764.5
45°	766.4	747.2	734.2	726.5	718.1	712.7	711.9	714.2	715.0	715.8	718.1
47.5°	698.0	685.3	673.5	665.0	661.4	660.4	659.5	663.5	667.2	668.6	672.1
50°	657.5	643.0	633.0	627.6	624.6	623.0	624.6	629.2	632.2	636.1	638.4
52.5°	612.2	601.9	595.0	590.9	589.6	590.6	590.9	596.1	601.0	602.4	603.4
55°	549.5	541.8	540.3	533.4	536.4	535.7	539.5	542.6	547.2	551.8	552.5
57.5°	486.9	480.8	476.7	477.3	478.2	481.6	484.8	490.2	495.1	500.0	500.4
60°	445.3	442.2	439.9	439.9	441.4	446.0	449.8	455.2	458.3	461.3	463.6
62.5°	407.2	404.2	401.9	403.1	407.1	409.8	414.3	417.2	420.3	423.3	424.4
65°	347.2	345.6	347.9	349.5	350.2	354.1	359.4	361.7	364.8	366.3	371.7
67.5°	291.8	292.1	291.8	294.0	298.4	299.3	304.4	309.8	310.4	313.3	316.8
70°	254.4	256.0	257.5	259.0	262.9	264.4	268.2	270.5	273.6	275.9	278.2
72.5°	220.1	220.4	221.9	221.6	224.8	228.2	231.4	233.7	236.8	239.7	242.0
75°	169.4	169.4	170.9	171.7	175.5	179.3	178.6	180.1	183.2	186.2	187.8
77.5°	123.7	122.0	123.7	124.5	125.7	128.9	129.5	131.7	135.2	134.1	135.8
80°	94.3	92.0	94.3	95.0	95.0	98.9	98.9	100.4	102.7	100.4	102.7
82.5°	67.3	66.2	67.9	68.1	69.3	69.4	70.7	71.0	73.3	72.2	73.3
85°	33.7	33.0	33.7	33.0	33.7	34.5	34.5	33.7	33.7	35.3	33.0
87.5°	13.4	13.8	14.5	15.7	16.4	17.0	16.3	16.2	16.1	14.7	14.7
90°	15.1	20.0	26.4	32.7	39.0	45.4	44.8	44.2	43.7	43.1	42.9
92.5°	33.2	35.2	36.7	38.2	39.7	41.2	41.3	41.5	41.6	41.7	41.8
95°	79.0	80.7	81.3	81.8	82.4	83.0	83.0	83.0	83.0	83.0	82.7
97.5°	133.3	135.1	136.2	137.3	138.4	139.5	139.5	139.5	139.5	139.5	139.5
100°	173.9	175.5	176.3	177.2	178.1	178.9	178.9	178.9	178.9	178.9	178.8
102.5°	215.6	217.1	218.2	219.3	220.4	221.5	221.7	221.9	222.2	222.4	222.4
105°	282.2	283.0	283.5	284.1	284.7	285.3	285.8	286.4	287.0	287.6	287.9
107.5°	354.9	355.5	355.5	355.5	355.5	355.5	355.8	356.0	356.2	356.5	355.9
110°	402.4	403.3	403.3	403.3	403.3	403.3	403.3	403.3	403.3	403.3	402.8



TEST NUMBER: P331604

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	452.2	452.9	452.7	452.5	452.2	452.0	451.3	450.6	449.9	449.2	448.6
115°	525.6	526.1	525.6	525.0	524.4	523.8	523.6	523.3	523.0	522.7	522.1
117.5°	601.0	601.4	599.7	598.1	596.5	594.9	594.2	593.5	592.8	592.1	591.4
120°	649.8	649.8	647.5	645.2	642.8	640.5	640.5	640.5	640.5	640.5	640.1
122.5°	696.2	696.8	695.2	693.6	691.9	690.3	689.6	689.0	688.3	687.6	686.9
125°	765.0	765.9	765.0	764.2	763.3	762.4	761.6	760.7	759.8	759.0	758.4
127.5°	835.5	836.6	835.6	834.5	833.5	832.4	831.4	830.4	829.3	828.3	827.3
130°	879.8	881.4	880.9	880.3	879.7	879.1	878.5	878.0	877.4	876.8	876.0
132.5°	924.8	926.4	926.5	926.6	926.7	926.8	925.6	924.3	923.0	921.8	920.7
135°	989.1	990.9	991.5	992.1	992.7	993.2	992.9	992.7	992.4	992.1	991.5
137.5°	1053.9	1055.6	1056.3	1057.1	1057.8	1058.6	1058.4	1058.1	1057.9	1057.7	1057.0
140°	1094.4	1096.4	1097.8	1099.3	1100.7	1102.1	1102.1	1102.1	1102.1	1102.1	1101.6
142.5°	1135.9	1137.6	1138.6	1139.6	1140.6	1141.6	1141.8	1142.0	1142.3	1142.5	1142.0
145°	1193.2	1195.1	1196.8	1198.5	1200.3	1202.0	1202.3	1202.6	1202.9	1203.1	1202.7
147.5°	1248.0	1249.8	1250.9	1252.1	1253.2	1254.4	1255.0	1255.6	1256.3	1256.9	1256.7
150°	1281.5	1283.0	1284.1	1285.3	1286.4	1287.6	1288.4	1289.3	1290.2	1291.0	1291.0
152.5°	1313.7	1315.2	1316.6	1318.0	1319.4	1320.8	1321.9	1323.0	1324.0	1325.1	1325.1
155°	1358.5	1359.3	1360.2	1361.0	1361.9	1362.8	1364.2	1365.7	1367.1	1368.5	1368.8
157.5°	1398.5	1399.1	1399.6	1400.1	1400.6	1401.2	1403.1	1405.1	1407.0	1409.0	1409.3
160°	1423.4	1423.9	1424.1	1424.4	1424.7	1425.0	1426.7	1428.5	1430.2	1431.9	1432.2
162.5°	1444.4	1444.6	1444.9	1445.2	1445.5	1445.8	1447.7	1449.7	1451.6	1453.6	1453.9
165°	1473.1	1473.0	1473.0	1473.0	1473.0	1473.0	1475.0	1477.0	1479.0	1481.1	1481.3
167.5°	1496.2	1495.8	1495.7	1495.7	1495.6	1495.5	1497.6	1499.6	1501.6	1503.6	1503.9
170°	1509.7	1509.2	1508.9	1508.6	1508.3	1508.0	1510.0	1512.0	1514.0	1516.1	1516.2
172.5°	1519.1	1518.5	1518.2	1517.9	1517.6	1517.3	1519.4	1521.4	1523.4	1525.4	1525.5
175°	1530.5	1529.8	1529.2	1528.6	1528.0	1527.4	1529.5	1531.5	1533.5	1535.5	1535.7
177.5°	1535.8	1535.3	1534.8	1534.3	1533.9	1533.4	1534.8	1536.2	1537.6	1538.9	1538.9
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331604

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1912.5	1911.3	1911.3	1905.8	1911.3	1911.3	1912.5	1918.6	1920.5	1921.7	1919.3
5°	1774.1	1771.8	1768.0	1771.8	1768.0	1771.8	1774.1	1784.8	1790.2	1795.6	1800.2
7.5°	1637.2	1628.0	1626.7	1617.6	1626.7	1628.0	1637.2	1642.3	1653.0	1665.1	1676.2
10°	1537.3	1531.2	1530.4	1515.8	1530.4	1531.2	1537.3	1550.3	1561.1	1575.6	1590.9
12.5°	1461.3	1446.6	1449.5	1441.0	1449.5	1446.6	1461.3	1461.4	1474.0	1483.0	1507.0
15°	1329.6	1329.6	1326.6	1313.5	1326.6	1329.6	1329.6	1350.3	1354.1	1368.7	1389.4
17.5°	1235.1	1233.5	1226.2	1229.8	1226.2	1233.5	1235.1	1250.2	1252.8	1272.3	1289.3
20°	1178.6	1174.1	1164.9	1164.9	1164.9	1174.1	1178.6	1187.1	1197.0	1208.5	1223.1
22.5°	1125.3	1125.0	1115.2	1118.3	1115.2	1125.0	1125.3	1133.1	1142.5	1155.2	1167.3
25°	1062.9	1056.8	1052.2	1054.5	1052.2	1056.8	1062.9	1063.7	1074.4	1082.9	1090.5
27.5°	1003.8	1000.4	1000.1	993.8	1000.1	1000.4	1003.8	1005.8	1011.9	1016.8	1024.0
30°	969.4	961.8	963.3	959.5	963.3	961.8	969.4	970.2	973.3	976.3	984.8
32.5°	930.2	927.4	925.9	922.7	925.9	927.4	930.2	931.6	937.7	940.8	947.4
35°	876.7	877.5	873.6	875.2	873.6	877.5	876.7	878.2	879.0	882.1	888.2
37.5°	830.0	832.4	830.6	831.0	830.6	832.4	830.0	830.7	831.5	832.0	833.8
40°	799.3	799.3	799.3	801.6	799.3	799.3	799.3	797.0	797.8	797.0	797.0
42.5°	769.9	768.7	767.4	767.3	767.4	768.7	769.9	764.5	767.1	764.5	763.3
45°	719.6	721.9	722.7	718.8	722.7	721.9	719.6	718.1	715.8	715.0	714.2
47.5°	674.1	674.4	674.1	677.5	674.1	674.4	674.1	672.1	668.6	667.2	663.5
50°	642.2	640.7	642.2	640.7	642.2	640.7	642.2	638.4	636.1	632.2	629.2
52.5°	608.5	608.8	607.9	607.6	607.9	608.8	608.5	603.4	602.4	601.0	596.1
55°	555.6	557.1	556.4	556.4	556.4	557.1	555.6	552.5	551.8	547.2	542.6
57.5°	500.9	502.3	503.3	500.0	503.3	502.3	500.9	500.4	500.0	495.1	490.2
60°	462.9	466.7	465.9	464.4	465.9	466.7	462.9	463.6	461.3	458.3	455.2
62.5°	427.9	429.3	429.2	428.9	429.2	429.3	427.9	424.4	423.3	420.3	417.2
65°	374.0	375.5	373.2	375.5	373.2	375.5	374.0	371.7	366.3	364.8	361.7
67.5°	315.9	316.4	318.0	319.1	318.0	316.4	315.9	316.8	313.3	310.4	309.8
70°	279.7	279.0	281.3	283.6	281.3	279.0	279.7	278.2	275.9	273.6	270.5
72.5°	241.7	243.4	242.6	244.3	242.6	243.4	241.7	242.0	239.7	236.8	233.7
75°	186.2	188.5	187.8	190.1	187.8	188.5	186.2	187.8	186.2	183.2	180.1
77.5°	134.6	134.9	134.6	135.8	134.6	134.9	134.6	135.8	134.1	135.2	131.7
80°	102.7	101.2	99.6	102.7	99.6	101.2	102.7	102.7	100.4	102.7	100.4
82.5°	71.4	72.3	70.8	70.8	70.8	72.3	71.4	73.3	72.2	73.3	71.0
85°	33.0	32.2	30.7	30.7	30.7	32.2	33.0	33.0	35.3	33.7	33.7
87.5°	14.8	14.2	14.3	13.7	14.3	14.2	14.8	14.7	14.7	16.1	16.2
90°	43.2	43.5	43.8	44.1	43.8	43.5	43.2	42.9	43.1	43.7	44.2
92.5°	41.8	41.9	42.0	42.0	42.0	41.9	41.8	41.8	41.7	41.6	41.5
95°	82.1	81.5	81.0	80.4	81.0	81.5	82.1	82.7	83.0	83.0	83.0
97.5°	139.4	139.4	139.3	139.3	139.3	139.4	139.4	139.5	139.5	139.5	139.5
100°	178.5	178.2	177.9	177.6	177.9	178.2	178.5	178.8	178.9	178.9	178.9
102.5°	222.1	221.8	221.5	221.2	221.5	221.8	222.1	222.4	222.4	222.2	221.9
105°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.6	287.0	286.4
107.5°	354.6	353.3	351.9	350.6	351.9	353.3	354.6	355.9	356.5	356.2	356.0
110°	402.0	401.1	400.2	399.4	400.2	401.1	402.0	402.8	403.3	403.3	403.3



TEST NUMBER: P331604

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	447.9	447.3	446.7	446.0	446.7	447.3	447.9	448.6	449.2	449.9	450.6
115°	521.3	520.4	519.5	518.7	519.5	520.4	521.3	522.1	522.7	523.0	523.3
117.5°	590.5	589.6	588.8	587.9	588.8	589.6	590.5	591.4	592.1	592.8	593.5
120°	639.2	638.4	637.5	636.7	637.5	638.4	639.2	640.1	640.5	640.5	640.5
122.5°	686.3	685.6	685.0	684.4	685.0	685.6	686.3	686.9	687.6	688.3	689.0
125°	758.1	757.8	757.5	757.2	757.5	757.8	758.1	758.4	759.0	759.8	760.7
127.5°	826.4	825.5	824.6	823.6	824.6	825.5	826.4	827.3	828.3	829.3	830.4
130°	874.8	873.7	872.5	871.3	872.5	873.7	874.8	876.0	876.8	877.4	878.0
132.5°	919.8	918.8	917.9	917.0	917.9	918.8	919.8	920.7	921.8	923.0	924.3
135°	990.6	989.8	988.9	988.0	988.9	989.8	990.6	991.5	992.1	992.4	992.7
137.5°	1055.8	1054.7	1053.5	1052.4	1053.5	1054.7	1055.8	1057.0	1057.7	1057.9	1058.1
140°	1100.4	1099.3	1098.1	1097.0	1098.1	1099.3	1100.4	1101.6	1102.1	1102.1	1102.1
142.5°	1140.9	1139.7	1138.6	1137.4	1138.6	1139.7	1140.9	1142.0	1142.5	1142.3	1142.0
145°	1201.6	1200.4	1199.3	1198.1	1199.3	1200.4	1201.6	1202.7	1203.1	1202.9	1202.6
147.5°	1255.6	1254.5	1253.4	1252.3	1253.4	1254.5	1255.6	1256.7	1256.9	1256.3	1255.6
150°	1290.2	1289.3	1288.4	1287.6	1288.4	1289.3	1290.2	1291.0	1291.0	1290.2	1289.3
152.5°	1324.0	1323.0	1321.9	1320.8	1321.9	1323.0	1324.0	1325.1	1325.1	1324.0	1323.0
155°	1368.0	1367.1	1366.2	1365.4	1366.2	1367.1	1368.0	1368.8	1368.5	1367.1	1365.7
157.5°	1407.9	1406.5	1405.1	1403.7	1405.1	1406.5	1407.9	1409.3	1409.0	1407.0	1405.1
160°	1431.1	1429.9	1428.8	1427.6	1428.8	1429.9	1431.1	1432.2	1431.9	1430.2	1428.5
162.5°	1452.5	1451.1	1449.7	1448.4	1449.7	1451.1	1452.5	1453.9	1453.6	1451.6	1449.7
165°	1479.9	1478.5	1477.0	1475.6	1477.0	1478.5	1479.9	1481.3	1481.1	1479.0	1477.0
167.5°	1502.4	1500.9	1499.4	1497.9	1499.4	1500.9	1502.4	1503.9	1503.6	1501.6	1499.6
170°	1514.5	1512.8	1511.0	1509.3	1511.0	1512.8	1514.5	1516.2	1516.1	1514.0	1512.0
172.5°	1523.8	1522.1	1520.4	1518.6	1520.4	1522.1	1523.8	1525.5	1525.4	1523.4	1521.4
175°	1533.9	1532.2	1530.5	1528.7	1530.5	1532.2	1533.9	1535.7	1535.5	1533.5	1531.5
177.5°	1537.6	1536.2	1534.8	1533.4	1534.8	1536.2	1537.6	1538.9	1538.9	1537.6	1536.2
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331604

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1916.2	1922.9	1933.4	1944.4	1951.1	1964.0	1967.7	1973.8	1979.3	1992.2	2005.7
5°	1805.5	1816.3	1841.5	1855.3	1874.5	1896.7	1911.3	1926.6	1943.5	1972.6	1999.4
7.5°	1686.9	1704.8	1736.2	1762.0	1789.3	1821.2	1844.1	1874.5	1899.6	1940.7	1979.9
10°	1607.8	1633.1	1661.5	1692.1	1730.4	1764.1	1796.3	1834.6	1865.3	1914.3	1960.3
12.5°	1536.7	1540.5	1581.1	1614.9	1667.3	1709.0	1746.1	1795.4	1825.4	1883.7	1932.1
15°	1412.4	1435.4	1472.2	1499.0	1561.1	1613.9	1666.0	1717.4	1751.9	1823.9	1887.5
17.5°	1307.7	1328.9	1366.6	1410.5	1455.1	1507.7	1575.2	1629.3	1676.2	1758.5	1833.7
20°	1241.5	1267.5	1305.9	1351.1	1390.2	1447.6	1505.9	1568.0	1618.5	1711.3	1799.4
22.5°	1185.1	1205.6	1236.6	1281.2	1323.9	1376.5	1440.3	1507.9	1560.9	1661.0	1750.3
25°	1105.8	1122.7	1142.6	1179.4	1227.7	1285.2	1335.0	1409.3	1486.7	1580.2	1688.3
27.5°	1034.4	1046.4	1064.0	1096.3	1133.7	1187.5	1242.9	1313.4	1391.2	1492.7	1606.7
30°	990.9	998.6	1016.2	1043.0	1079.8	1121.9	1177.9	1245.3	1325.0	1427.7	1541.1
32.5°	952.9	959.9	971.4	997.0	1028.9	1064.9	1115.3	1182.8	1258.8	1359.7	1485.3
35°	895.9	901.2	911.2	931.9	949.5	984.8	1026.9	1088.2	1159.5	1256.1	1386.3
37.5°	839.0	846.4	852.5	861.2	883.9	907.1	943.7	995.5	1065.4	1162.9	1287.0
40°	801.6	807.7	816.9	820.8	839.2	859.8	889.7	937.2	1007.8	1096.6	1217.7
42.5°	763.6	769.7	775.2	779.7	795.6	813.9	840.7	881.5	944.0	1030.4	1150.3
45°	711.9	712.7	718.1	726.5	734.2	747.2	766.4	801.6	849.9	931.1	1039.9
47.5°	659.5	660.4	661.4	665.0	673.5	685.3	698.0	726.7	769.9	834.7	940.6
50°	624.6	623.0	624.6	627.6	633.0	643.0	657.5	678.2	713.5	774.0	871.3
52.5°	590.9	590.6	589.6	590.9	595.0	601.9	612.2	629.8	661.4	717.0	802.7
55°	539.5	535.7	536.4	533.4	540.3	541.8	549.5	564.0	591.6	629.9	710.4
57.5°	484.8	481.6	478.2	477.3	476.7	480.8	486.9	498.4	519.6	553.2	618.4
60°	449.8	446.0	441.4	439.9	439.9	442.2	445.3	453.7	473.6	503.5	557.1
62.5°	414.3	409.8	407.1	403.1	401.9	404.2	407.2	413.2	427.6	455.7	502.0
65°	359.4	354.1	350.2	349.5	347.9	345.6	347.2	353.3	364.8	387.0	423.8
67.5°	304.4	299.3	298.4	294.0	291.8	292.1	291.8	297.0	303.9	323.1	350.5
70°	268.2	264.4	262.9	259.0	257.5	256.0	254.4	259.0	265.9	282.0	305.8
72.5°	231.4	228.2	224.8	221.6	221.9	220.4	220.1	222.9	228.5	243.4	261.6
75°	178.6	179.3	175.5	171.7	170.9	169.4	169.4	171.7	174.0	185.5	200.0
77.5°	129.5	128.9	125.7	124.5	123.7	122.0	123.7	125.2	126.4	134.1	144.8
80°	98.9	98.9	95.0	95.0	94.3	92.0	94.3	92.7	95.8	103.5	111.1
82.5°	70.7	69.4	69.3	68.1	67.9	66.2	67.3	68.8	70.0	75.3	79.9
85°	34.5	34.5	33.7	33.0	33.7	33.0	33.7	34.5	35.3	37.6	41.4
87.5°	16.3	17.0	16.4	15.7	14.5	13.8	13.4	13.4	13.9	13.8	13.7
90°	44.8	45.4	39.0	32.7	26.4	20.0	15.1	11.7	8.2	4.8	1.3
92.5°	41.3	41.2	39.7	38.2	36.7	35.2	33.2	30.7	28.2	25.6	23.1
95°	83.0	83.0	82.4	81.8	81.3	80.7	79.0	76.1	73.2	70.3	67.4
97.5°	139.5	139.5	138.4	137.3	136.2	135.1	133.3	130.8	128.3	125.7	123.2
100°	178.9	178.9	178.1	177.2	176.3	175.5	173.9	171.6	169.3	167.0	164.7
102.5°	221.7	221.5	220.4	219.3	218.2	217.1	215.6	213.8	211.9	210.1	208.2
105°	285.8	285.3	284.7	284.1	283.5	283.0	282.2	281.4	280.5	279.6	278.8
107.5°	355.8	355.5	355.5	355.5	355.5	355.5	354.9	353.6	352.4	351.1	349.8
110°	403.3	403.3	403.3	403.3	403.3	403.3	402.4	400.7	398.9	397.2	395.5



TEST NUMBER: P331604

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	451.3	452.0	452.2	452.5	452.7	452.9	452.2	450.5	448.7	447.0	445.3
115°	523.6	523.8	524.4	525.0	525.6	526.1	525.6	523.8	522.1	520.4	518.7
117.5°	594.2	594.9	596.5	598.1	599.7	601.4	601.0	598.7	596.4	594.1	591.8
120°	640.5	640.5	642.8	645.2	647.5	649.8	649.8	647.5	645.2	642.8	640.5
122.5°	689.6	690.3	691.9	693.6	695.2	696.8	696.2	693.4	690.7	687.9	685.1
125°	761.6	762.4	763.3	764.2	765.0	765.9	765.0	762.4	759.8	757.2	754.6
127.5°	831.4	832.4	833.5	834.5	835.6	836.6	835.5	832.2	828.9	825.6	822.3
130°	878.5	879.1	879.7	880.3	880.9	881.4	879.8	876.1	872.4	868.6	864.9
132.5°	925.6	926.8	926.7	926.6	926.5	926.4	924.8	921.7	918.7	915.6	912.6
135°	992.9	993.2	992.7	992.1	991.5	990.9	989.1	985.9	982.7	979.5	976.4
137.5°	1058.4	1058.6	1057.8	1057.1	1056.3	1055.6	1053.9	1051.3	1048.7	1046.1	1043.5
140°	1102.1	1102.1	1100.7	1099.3	1097.8	1096.4	1094.4	1091.8	1089.2	1086.6	1084.0
142.5°	1141.8	1141.6	1140.6	1139.6	1138.6	1137.6	1135.9	1133.3	1130.7	1128.1	1125.5
145°	1202.3	1202.0	1200.3	1198.5	1196.8	1195.1	1193.2	1191.2	1189.2	1187.2	1185.1
147.5°	1255.0	1254.4	1253.2	1252.1	1250.9	1249.8	1248.0	1245.6	1243.1	1240.7	1238.3
150°	1288.4	1287.6	1286.4	1285.3	1284.1	1283.0	1281.5	1279.8	1278.1	1276.3	1274.6
152.5°	1321.9	1320.8	1319.4	1318.0	1316.6	1315.2	1313.7	1311.9	1310.2	1308.5	1306.8
155°	1364.2	1362.8	1361.9	1361.0	1360.2	1359.3	1358.5	1357.6	1356.7	1355.9	1355.0
157.5°	1403.1	1401.2	1400.6	1400.1	1399.6	1399.1	1398.5	1398.0	1397.4	1396.8	1396.2
160°	1426.7	1425.0	1424.7	1424.4	1424.1	1423.9	1423.4	1422.9	1422.3	1421.7	1421.1
162.5°	1447.7	1445.8	1445.5	1445.2	1444.9	1444.6	1444.4	1444.3	1444.2	1444.1	1443.9
165°	1475.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.1	1473.4	1473.7	1474.0	1474.3
167.5°	1497.6	1495.5	1495.6	1495.7	1495.7	1495.8	1496.2	1497.1	1498.0	1498.8	1499.7
170°	1510.0	1508.0	1508.3	1508.6	1508.9	1509.2	1509.7	1510.6	1511.5	1512.3	1513.2
172.5°	1519.4	1517.3	1517.6	1517.9	1518.2	1518.5	1519.1	1519.9	1520.8	1521.7	1522.5
175°	1529.5	1527.4	1528.0	1528.6	1529.2	1529.8	1530.5	1531.3	1532.2	1533.1	1533.9
177.5°	1534.8	1533.4	1533.9	1534.3	1534.8	1535.3	1535.8	1536.5	1537.2	1537.9	1538.6
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331604

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2004.5	2007.5	2017.3	2027.2	2038.2	2041.3	2046.2	2041.9	2040.6	2052.3	2060.9
5°	2010.1	2023.9	2050.8	2075.3	2096.0	2110.5	2125.9	2132.0	2143.5	2159.6	2179.5
7.5°	2003.7	2030.5	2072.7	2108.4	2147.3	2175.4	2197.3	2216.0	2238.7	2269.2	2302.4
10°	1996.3	2032.4	2083.7	2127.4	2174.9	2210.9	2240.8	2269.9	2303.7	2345.8	2389.5
12.5°	1982.9	2025.6	2089.8	2141.5	2202.5	2237.9	2278.2	2341.1	2377.2	2435.9	2497.4
15°	1955.7	2003.2	2092.9	2156.5	2225.5	2292.9	2367.3	2427.0	2486.8	2521.3	2607.9
17.5°	1915.4	1985.2	2084.5	2158.7	2246.3	2352.5	2436.1	2503.8	2572.8	2628.7	2672.1
20°	1882.9	1958.8	2072.2	2161.1	2265.3	2379.5	2475.3	2544.3	2604.1	2650.8	2677.6
22.5°	1841.8	1937.3	2047.7	2151.9	2285.0	2397.9	2498.6	2552.9	2602.8	2625.7	2635.9
25°	1777.2	1892.1	2017.0	2144.3	2294.5	2414.0	2506.0	2538.9	2553.5	2531.3	2494.5
27.5°	1707.4	1835.6	1981.6	2129.8	2288.6	2403.6	2469.5	2464.3	2439.6	2367.7	2310.2
30°	1655.3	1796.3	1953.4	2115.1	2274.5	2386.4	2424.7	2386.4	2330.5	2250.0	2168.0
32.5°	1600.8	1746.7	1923.4	2094.3	2248.8	2347.2	2355.5	2289.6	2203.0	2111.5	2009.2
35°	1518.1	1676.0	1866.8	2047.7	2194.1	2256.1	2219.4	2102.9	2000.2	1875.3	1735.8
37.5°	1424.8	1599.1	1790.5	1979.5	2112.1	2128.3	2037.0	1914.3	1769.5	1622.7	1458.5
40°	1354.9	1539.6	1736.6	1927.4	2044.6	2027.8	1911.3	1776.4	1604.0	1424.6	1272.1
42.5°	1292.4	1477.1	1677.7	1864.8	1958.8	1912.5	1776.4	1610.9	1425.6	1256.7	1117.0
45°	1184.0	1374.1	1579.5	1760.3	1814.0	1730.4	1550.3	1366.4	1184.0	1043.0	932.7
47.5°	1078.9	1266.8	1470.2	1629.1	1648.1	1535.8	1339.0	1149.7	992.9	878.1	800.2
50°	1001.6	1190.1	1391.7	1533.5	1527.3	1391.7	1189.4	1009.3	878.2	785.5	733.4
52.5°	932.3	1110.4	1304.0	1432.9	1400.4	1252.5	1059.4	899.5	791.8	719.3	672.1
55°	824.6	989.4	1173.3	1276.7	1217.0	1053.0	889.7	761.0	681.3	626.9	590.1
57.5°	717.6	872.1	1029.5	1093.3	1027.2	875.8	739.7	646.3	586.4	546.1	522.2
60°	651.4	786.3	926.5	981.7	902.8	767.9	660.6	577.1	528.8	495.8	474.4
62.5°	585.2	706.0	838.2	868.3	796.1	682.1	587.0	517.6	477.9	448.6	428.4
65°	495.1	593.9	694.3	714.2	647.6	559.4	484.3	439.1	403.9	382.4	366.3
67.5°	406.0	485.4	556.5	572.6	514.2	453.1	398.8	359.4	335.5	317.7	304.1
70°	353.3	416.1	474.4	487.4	440.7	386.2	344.9	313.4	292.0	276.7	263.6
72.5°	297.5	349.9	398.3	407.1	368.9	327.4	293.4	268.7	249.7	239.9	227.5
75°	227.6	258.3	295.8	298.1	272.8	247.5	221.5	205.4	195.4	183.2	177.0
77.5°	160.6	184.7	206.1	210.3	195.3	178.1	163.5	150.8	142.4	136.7	131.0
80°	122.6	141.8	151.0	156.3	145.6	133.3	124.9	116.5	111.1	107.3	103.5
82.5°	87.7	99.5	108.1	112.2	106.4	99.0	90.6	85.8	81.7	78.5	77.1
85°	44.4	49.8	55.2	56.7	55.2	52.1	47.5	47.5	45.2	44.4	44.4
87.5°	16.3	19.4	20.1	22.6	22.4	23.7	24.9	25.6	26.2	25.5	24.8
90°	4.8	8.2	11.7	15.1	20.0	26.4	32.7	39.0	45.4	44.8	44.2
92.5°	25.6	28.2	30.7	33.2	35.2	36.7	38.2	39.7	41.2	41.3	41.5
95°	70.3	73.2	76.1	79.0	80.7	81.3	81.8	82.4	83.0	83.0	83.0
97.5°	125.7	128.3	130.8	133.3	135.1	136.2	137.3	138.4	139.5	139.5	139.5
100°	167.0	169.3	171.6	173.9	175.5	176.3	177.2	178.1	178.9	178.9	178.9
102.5°	210.1	211.9	213.8	215.6	217.1	218.2	219.3	220.4	221.5	221.7	221.9
105°	279.6	280.5	281.4	282.2	283.0	283.5	284.1	284.7	285.3	285.8	286.4
107.5°	351.1	352.4	353.6	354.9	355.5	355.5	355.5	355.5	355.5	355.8	356.0
110°	397.2	398.9	400.7	402.4	403.3	403.3	403.3	403.3	403.3	403.3	403.3



TEST NUMBER: P331604

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	447.0	448.7	450.5	452.2	452.9	452.7	452.5	452.2	452.0	451.3	450.6
115°	520.4	522.1	523.8	525.6	526.1	525.6	525.0	524.4	523.8	523.6	523.3
117.5°	594.1	596.4	598.7	601.0	601.4	599.7	598.1	596.5	594.9	594.2	593.5
120°	642.8	645.2	647.5	649.8	649.8	647.5	645.2	642.8	640.5	640.5	640.5
122.5°	687.9	690.7	693.4	696.2	696.8	695.2	693.6	691.9	690.3	689.6	689.0
125°	757.2	759.8	762.4	765.0	765.9	765.0	764.2	763.3	762.4	761.6	760.7
127.5°	825.6	828.9	832.2	835.5	836.6	835.6	834.5	833.5	832.4	831.4	830.4
130°	868.6	872.4	876.1	879.8	881.4	880.9	880.3	879.7	879.1	878.5	878.0
132.5°	915.6	918.7	921.7	924.8	926.4	926.5	926.6	926.7	926.8	925.6	924.3
135°	979.5	982.7	985.9	989.1	990.9	991.5	992.1	992.7	993.2	992.9	992.7
137.5°	1046.1	1048.7	1051.3	1053.9	1055.6	1056.3	1057.1	1057.8	1058.6	1058.4	1058.1
140°	1086.6	1089.2	1091.8	1094.4	1096.4	1097.8	1099.3	1100.7	1102.1	1102.1	1102.1
142.5°	1128.1	1130.7	1133.3	1135.9	1137.6	1138.6	1139.6	1140.6	1141.6	1141.8	1142.0
145°	1187.2	1189.2	1191.2	1193.2	1195.1	1196.8	1198.5	1200.3	1202.0	1202.3	1202.6
147.5°	1240.7	1243.1	1245.6	1248.0	1249.8	1250.9	1252.1	1253.2	1254.4	1255.0	1255.6
150°	1276.3	1278.1	1279.8	1281.5	1283.0	1284.1	1285.3	1286.4	1287.6	1288.4	1289.3
152.5°	1308.5	1310.2	1311.9	1313.7	1315.2	1316.6	1318.0	1319.4	1320.8	1321.9	1323.0
155°	1355.9	1356.7	1357.6	1358.5	1359.3	1360.2	1361.0	1361.9	1362.8	1364.2	1365.7
157.5°	1396.8	1397.4	1398.0	1398.5	1399.1	1399.6	1400.1	1400.6	1401.2	1403.1	1405.1
160°	1421.7	1422.3	1422.9	1423.4	1423.9	1424.1	1424.4	1424.7	1425.0	1426.7	1428.5
162.5°	1444.1	1444.2	1444.3	1444.4	1444.6	1444.9	1445.2	1445.5	1445.8	1447.7	1449.7
165°	1474.0	1473.7	1473.4	1473.1	1473.0	1473.0	1473.0	1473.0	1473.0	1475.0	1477.0
167.5°	1498.8	1498.0	1497.1	1496.2	1495.8	1495.7	1495.7	1495.6	1495.5	1497.6	1499.6
170°	1512.3	1511.5	1510.6	1509.7	1509.2	1508.9	1508.6	1508.3	1508.0	1510.0	1512.0
172.5°	1521.7	1520.8	1519.9	1519.1	1518.5	1518.2	1517.9	1517.6	1517.3	1519.4	1521.4
175°	1533.1	1532.2	1531.3	1530.5	1529.8	1529.2	1528.6	1528.0	1527.4	1529.5	1531.5
177.5°	1537.9	1537.2	1536.5	1535.8	1535.3	1534.8	1534.3	1533.9	1533.4	1534.8	1536.2
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2068.2	2076.8	2076.8	2078.0	2087.8	2086.6	2086.0
5°	2201.0	2214.0	2215.5	2229.3	2238.5	2235.4	2227.0
7.5°	2326.2	2350.4	2368.8	2379.1	2391.2	2398.7	2395.3
10°	2425.5	2460.8	2482.2	2496.8	2514.4	2527.4	2522.8
12.5°	2515.6	2557.6	2587.1	2612.0	2614.3	2631.0	2619.7
15°	2656.2	2700.6	2705.2	2723.6	2738.2	2736.6	2737.4
17.5°	2702.6	2716.9	2719.8	2720.2	2720.4	2715.0	2703.4
20°	2686.1	2680.7	2667.7	2657.7	2640.1	2637.8	2622.5
22.5°	2607.6	2590.6	2557.9	2536.3	2508.9	2501.7	2497.4
25°	2453.1	2415.5	2363.4	2313.6	2299.8	2273.0	2280.7
27.5°	2241.1	2182.6	2126.2	2085.7	2049.1	2008.9	2020.4
30°	2092.1	2026.2	1946.5	1885.2	1846.1	1807.8	1800.9
32.5°	1914.3	1817.8	1728.9	1674.9	1615.0	1590.8	1564.3
35°	1607.8	1513.5	1425.4	1349.5	1305.9	1272.1	1241.5
37.5°	1332.1	1223.6	1152.4	1091.0	1059.4	1040.1	1045.0
40°	1161.0	1066.0	1013.9	967.1	938.0	924.2	927.3
42.5°	1022.5	951.3	908.4	876.4	855.9	848.2	846.4
45°	865.2	825.4	790.1	771.7	761.8	753.3	748.0
47.5°	757.9	725.4	705.5	694.6	685.9	677.3	677.1
50°	693.5	672.1	658.3	646.8	639.9	633.8	639.1
52.5°	644.5	624.9	611.1	600.8	598.2	592.7	592.5
55°	571.7	556.4	546.4	537.2	532.6	529.5	525.7
57.5°	505.5	490.9	481.7	475.9	467.2	464.1	462.9
60°	458.3	446.8	437.6	429.9	426.1	420.0	420.0
62.5°	414.7	403.3	394.7	388.8	382.6	380.1	380.7
65°	351.8	342.6	334.1	328.0	326.5	321.9	323.4
67.5°	293.8	287.7	278.8	275.4	272.5	270.1	268.2
70°	255.2	249.1	244.5	239.9	237.6	237.6	237.6
72.5°	222.7	215.3	212.6	206.8	208.1	205.7	203.2
75°	172.4	167.8	165.5	163.2	159.4	159.4	159.4
77.5°	126.9	125.5	122.8	120.3	119.4	118.6	118.9
80°	98.1	97.3	95.8	95.8	94.3	93.5	92.0
82.5°	75.4	73.4	72.5	71.9	71.6	71.4	71.1
85°	42.9	41.4	41.4	42.1	40.6	40.6	41.4
87.5°	25.3	25.2	24.5	24.6	25.3	24.7	24.8
90°	43.7	43.1	42.9	43.2	43.5	43.8	44.1
92.5°	41.6	41.7	41.8	41.8	41.9	42.0	42.0
95°	83.0	83.0	82.7	82.1	81.5	81.0	80.4
97.5°	139.5	139.5	139.5	139.4	139.4	139.3	139.3
100°	178.9	178.9	178.8	178.5	178.2	177.9	177.6
102.5°	222.2	222.4	222.4	222.1	221.8	221.5	221.2
105°	287.0	287.6	287.9	287.9	287.9	287.9	287.9
107.5°	356.2	356.5	355.9	354.6	353.3	351.9	350.6
110°	403.3	403.3	402.8	402.0	401.1	400.2	399.4



TEST NUMBER: P331604

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	449.9	449.2	448.6	447.9	447.3	446.7	446.0
115°	523.0	522.7	522.1	521.3	520.4	519.5	518.7
117.5°	592.8	592.1	591.4	590.5	589.6	588.8	587.9
120°	640.5	640.5	640.1	639.2	638.4	637.5	636.7
122.5°	688.3	687.6	686.9	686.3	685.6	685.0	684.4
125°	759.8	759.0	758.4	758.1	757.8	757.5	757.2
127.5°	829.3	828.3	827.3	826.4	825.5	824.6	823.6
130°	877.4	876.8	876.0	874.8	873.7	872.5	871.3
132.5°	923.0	921.8	920.7	919.8	918.8	917.9	917.0
135°	992.4	992.1	991.5	990.6	989.8	988.9	988.0
137.5°	1057.9	1057.7	1057.0	1055.8	1054.7	1053.5	1052.4
140°	1102.1	1102.1	1101.6	1100.4	1099.3	1098.1	1097.0
142.5°	1142.3	1142.5	1142.0	1140.9	1139.7	1138.6	1137.4
145°	1202.9	1203.1	1202.7	1201.6	1200.4	1199.3	1198.1
147.5°	1256.3	1256.9	1256.7	1255.6	1254.5	1253.4	1252.3
150°	1290.2	1291.0	1291.0	1290.2	1289.3	1288.4	1287.6
152.5°	1324.0	1325.1	1325.1	1324.0	1323.0	1321.9	1320.8
155°	1367.1	1368.5	1368.8	1368.0	1367.1	1366.2	1365.4
157.5°	1407.0	1409.0	1409.3	1407.9	1406.5	1405.1	1403.7
160°	1430.2	1431.9	1432.2	1431.1	1429.9	1428.8	1427.6
162.5°	1451.6	1453.6	1453.9	1452.5	1451.1	1449.7	1448.4
165°	1479.0	1481.1	1481.3	1479.9	1478.5	1477.0	1475.6
167.5°	1501.6	1503.6	1503.9	1502.4	1500.9	1499.4	1497.9
170°	1514.0	1516.1	1516.2	1514.5	1512.8	1511.0	1509.3
172.5°	1523.4	1525.4	1525.5	1523.8	1522.1	1520.4	1518.6
175°	1533.5	1535.5	1535.7	1533.9	1532.2	1530.5	1528.7
177.5°	1537.6	1538.9	1538.9	1537.6	1536.2	1534.8	1533.4
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5

(END OF REPORT)