

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: P332706-830

Luminaire Tested: **SA4XXDIP-C1195D1205U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332706-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D1205U830-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

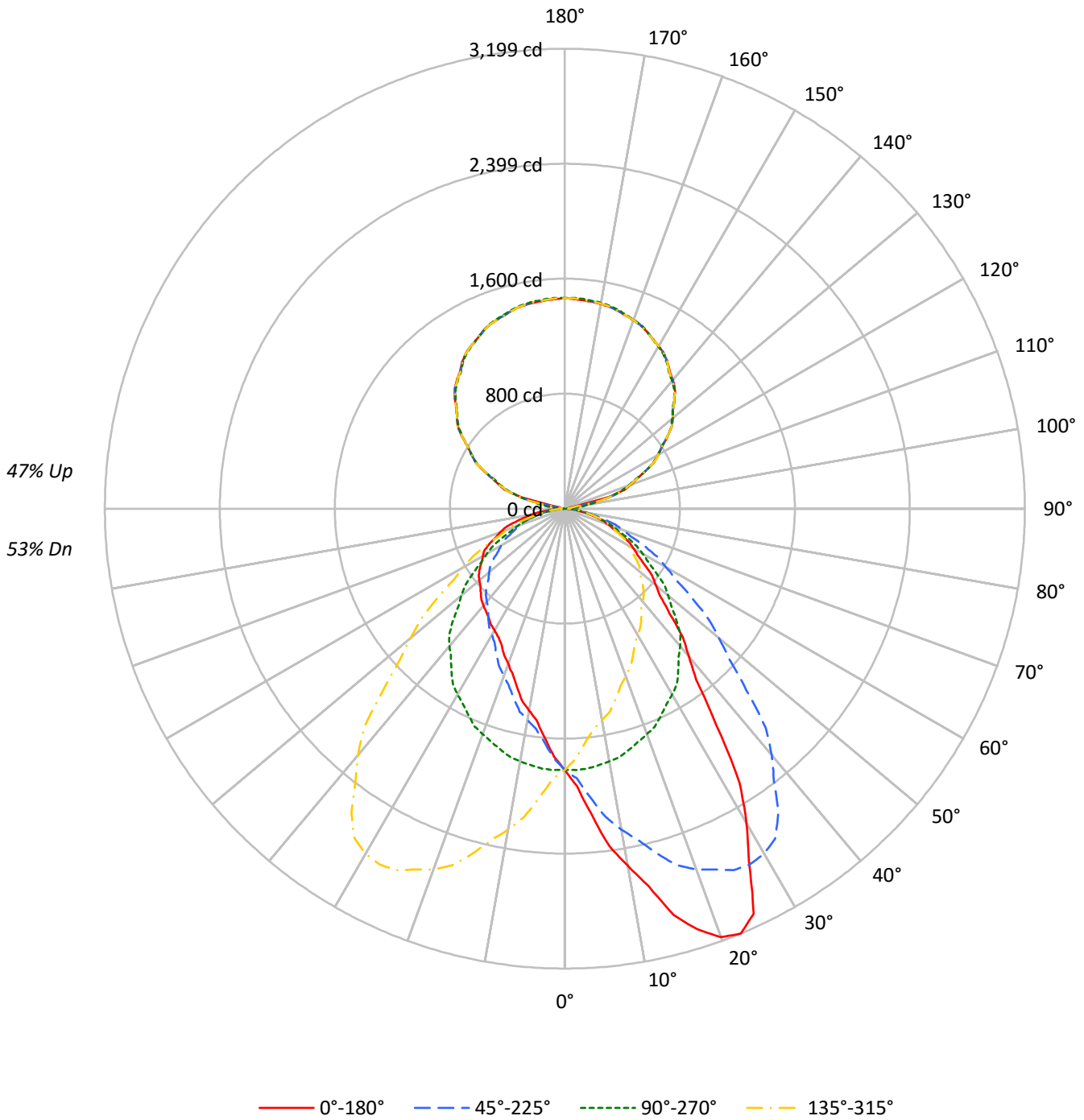
Lumens per Lamp: N/A
Luminaire Lumens: 9545.8 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.7
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	53
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45
2	90	83	77	71	83	77	71	67	66	62	58	55	53	50	46	44	42	38
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	38	36	32
4	75	65	57	51	69	60	53	48	52	47	42	44	40	37	37	34	31	28
5	69	58	50	44	64	54	47	41	46	41	37	40	35	32	33	30	28	24
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24	22
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	25	22	20	17
9	51	39	31	26	47	37	30	25	32	26	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14666	14666	14666	14666
5°	17271	14704	12977	14704
10°	20678	14638	11684	14638
15°	24466	14491	10730	14491
20°	27244	14339	9879	14339
25°	27684	14118	9291	14118
30°	23557	13904	9106	13904
35°	18111	13557	9107	13557
40°	14116	13149	9278	13149
45°	11771	12536	9434	12536
50°	10359	11786	9755	11786
55°	9491	10888	10148	10888
60°	8893	10085	10619	10085
65°	8281	9186	11012	9186
70°	7567	8297	11261	8297
75°	6759	7299	11126	7299
80°	5667	5983	10776	5983
85°	4177	4326	10319	4326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	1.9
10°-20°	545.5	5.7
20°-30°	865.0	9.1
30°-40°	962.7	10.1
40°-50°	876.3	9.2
50°-60°	716.1	7.5
60°-70°	511.2	5.4
70°-80°	281.5	2.9
80°-90°	81.1	0.8
90°-100°	50.1	0.5
100°-110°	319.3	3.3
110°-120°	610.8	6.4
120°-130°	775.4	8.1
130°-140°	829.7	8.7
140°-150°	775.8	8.1
150°-160°	625.7	6.6
160°-170°	403.5	4.2
170°-180°	139.1	1.5
0°-30°	1587.5	16.6
0°-40°	2550.2	26.7
0°-60°	4142.6	43.4
0°-90°	5016.3	52.6
90°-120°	980.2	10.3
90°-150°	3361.2	35.2
90°-180°	4529.0	47.4
0°-180°	9545.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1817	1817	1817	1817	1817	
5°	2131	1814	1601	1814	2131	217
15°	2927	1734	1284	1734	2927	827
25°	3108	1585	1043	1585	3108	1370
35°	1838	1376	924	1376	1838	1166
45°	1031	1098	826	1098	1031	812
55°	674	774	721	774	674	609
65°	434	481	576	481	434	429
75°	217	234	357	234	217	230
85°	45	47	111	47	45	56
90°	33	3	33	3	33	16
95°	32	60	32	60	32	25
105°	312	330	312	330	312	272
115°	620	616	620	616	620	614
125°	872	865	872	865	872	776
135°	1081	1073	1081	1073	1081	832
145°	1244	1238	1244	1238	1244	777
155°	1356	1357	1356	1357	1356	625
165°	1425	1431	1425	1431	1425	402
175°	1456	1464	1456	1464	1456	139
180°	1464	1464	1464	1464	1464	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1933.4	1932.8	1926.8	1925.6	1921.4	1916.0	1914.8	1905.2	1885.8	1876.8	1874.4
5°	2131.2	2146.3	2126.7	2122.9	2120.6	2095.8	2083.0	2067.9	2033.3	2013.1	1997.2
7.5°	2367.2	2369.0	2360.4	2353.5	2334.4	2312.7	2280.2	2245.6	2204.3	2161.4	2129.1
10°	2522.5	2528.6	2518.8	2517.2	2478.9	2454.8	2406.6	2366.0	2319.3	2267.4	2220.0
12.5°	2686.2	2677.9	2672.9	2640.6	2633.6	2589.6	2533.6	2491.8	2419.9	2360.1	2297.1
15°	2927.3	2910.9	2900.3	2855.9	2834.0	2773.1	2713.7	2667.8	2573.7	2484.2	2416.4
17.5°	3068.8	3085.4	3061.0	3042.8	2986.4	2943.7	2882.9	2786.5	2712.9	2601.7	2516.2
20°	3171.2	3172.7	3159.1	3140.4	3096.0	3041.8	2975.5	2870.1	2782.1	2671.5	2554.1
22.5°	3198.9	3199.2	3193.4	3175.9	3142.2	3098.3	3031.5	2943.7	2837.0	2716.7	2599.2
25°	3107.9	3104.9	3111.7	3131.3	3118.5	3104.9	3066.6	3001.1	2901.8	2774.6	2648.2
27.5°	2770.2	2791.0	2829.2	2877.4	2923.8	2959.1	2969.1	2955.6	2894.1	2789.5	2657.0
30°	2527.1	2552.6	2581.2	2629.3	2722.7	2776.1	2834.8	2879.2	2854.4	2770.9	2647.4
32.5°	2259.7	2266.1	2308.5	2363.2	2448.7	2551.6	2644.6	2734.7	2764.7	2720.8	2617.9
35°	1837.7	1848.2	1894.1	1948.3	2053.0	2178.6	2318.6	2443.4	2546.6	2587.9	2535.3
37.5°	1499.7	1529.9	1562.3	1620.5	1712.6	1825.8	1971.2	2132.9	2286.5	2389.4	2406.9
40°	1339.5	1358.3	1381.7	1426.1	1504.3	1615.7	1740.6	1925.7	2089.1	2236.6	2284.7
42.5°	1213.1	1224.1	1238.4	1278.6	1338.1	1449.0	1563.0	1725.9	1889.8	2066.1	2146.8
45°	1031.0	1042.3	1066.3	1089.7	1134.8	1211.5	1317.7	1451.6	1616.5	1786.5	1935.5
47.5°	899.5	906.6	921.0	945.9	984.3	1034.9	1121.2	1233.1	1385.9	1551.0	1709.8
50°	824.8	830.8	842.1	864.7	894.0	939.1	1009.9	1114.5	1234.2	1400.4	1556.2
52.5°	765.8	768.2	776.5	791.8	815.1	853.1	911.2	997.7	1108.9	1257.2	1412.4
55°	674.3	677.3	684.9	696.1	716.4	740.5	784.9	849.6	946.7	1075.3	1210.0
57.5°	599.0	601.2	607.5	611.8	628.5	648.1	682.2	728.5	802.0	911.2	1031.4
60°	550.8	549.3	556.9	560.6	571.9	588.5	614.8	659.2	723.2	811.2	921.9
62.5°	503.9	501.8	508.1	513.1	519.5	533.7	555.3	590.0	641.9	721.5	817.1
65°	433.5	430.5	434.2	440.3	446.3	453.7	469.6	500.4	541.9	599.0	672.0
67.5°	362.7	365.9	366.5	369.5	373.0	383.2	394.0	415.8	445.1	490.8	552.7
70°	320.6	321.3	324.3	324.3	326.6	335.6	344.7	357.4	386.1	428.2	478.6
72.5°	278.4	281.6	280.4	282.8	284.5	290.5	297.1	309.2	333.7	365.0	407.6
75°	216.7	219.0	219.0	219.7	222.0	224.2	229.5	238.6	255.9	279.2	308.5
77.5°	158.1	158.3	159.4	162.1	162.1	165.7	169.7	176.8	185.4	201.4	219.3
80°	121.9	123.4	122.6	124.1	124.1	127.1	128.7	137.7	141.5	152.0	166.3
82.5°	89.4	90.9	90.8	92.8	94.1	94.6	96.8	100.4	104.2	113.5	119.3
85°	45.1	46.7	45.1	46.7	48.9	49.7	51.9	52.7	55.7	58.0	63.2
87.5°	19.8	21.5	21.4	22.0	23.0	23.5	23.8	22.9	25.0	25.3	27.3
90°	32.9	32.3	31.9	31.4	30.9	30.0	28.5	27.1	25.5	24.1	22.1
92.5°	30.3	30.2	30.1	30.0	29.9	29.0	27.6	26.1	24.7	23.2	21.3
95°	31.8	31.5	31.3	31.0	30.8	30.0	28.5	27.1	25.5	24.1	23.8
97.5°	30.6	30.4	30.2	30.0	29.7	29.5	29.3	29.2	29.0	28.9	56.1
100°	30.6	30.4	30.2	30.0	29.7	31.7	35.8	39.9	44.0	48.2	81.8
102.5°	31.6	31.5	31.5	31.4	31.4	53.6	98.3	142.9	187.6	232.1	236.6
105°	312.2	320.9	329.6	338.4	347.1	350.4	348.3	346.1	343.9	341.7	340.4
107.5°	435.0	434.0	433.2	432.3	431.3	430.3	429.2	428.2	427.1	426.0	424.3
110°	488.4	487.8	487.0	486.3	485.5	484.9	484.5	484.0	483.4	483.0	481.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	541.9	541.0	540.1	539.1	538.2	537.8	537.9	538.0	538.1	538.2	537.5
115°	619.9	619.9	619.9	619.9	619.9	619.6	619.2	618.7	618.2	617.6	617.9
117.5°	699.2	699.3	699.4	699.5	699.6	699.6	699.7	699.8	699.9	700.0	699.6
120°	749.1	749.6	750.1	750.5	751.0	751.0	750.5	750.1	749.6	749.1	749.3
122.5°	798.1	798.6	799.2	799.7	800.1	800.2	799.9	799.7	799.4	799.1	798.7
125°	871.8	871.6	871.3	871.0	870.8	870.3	869.6	868.8	868.1	867.4	867.9
127.5°	936.4	936.6	936.8	937.0	937.2	937.4	937.5	937.6	937.7	937.9	936.8
130°	980.1	980.1	980.1	980.1	980.1	980.1	979.9	979.6	979.3	979.1	978.4
132.5°	1020.5	1020.7	1020.9	1021.1	1021.2	1021.2	1021.1	1020.8	1020.5	1020.3	1019.4
135°	1080.9	1080.4	1080.0	1079.5	1079.0	1078.6	1078.0	1077.5	1077.0	1076.6	1075.6
137.5°	1132.7	1132.7	1132.9	1133.1	1133.2	1133.0	1132.5	1132.0	1131.4	1130.9	1129.8
140°	1168.6	1168.3	1168.1	1167.8	1167.6	1167.2	1166.4	1165.6	1164.9	1164.2	1163.7
142.5°	1198.3	1198.3	1198.3	1198.3	1198.2	1197.9	1197.3	1196.8	1196.3	1195.7	1195.4
145°	1244.2	1243.7	1243.1	1242.6	1242.2	1241.8	1241.6	1241.3	1241.1	1240.9	1240.9
147.5°	1282.0	1281.8	1281.6	1281.3	1281.0	1280.8	1280.6	1280.4	1280.3	1280.1	1280.3
150°	1306.6	1306.4	1306.1	1305.8	1305.6	1305.4	1305.4	1305.4	1305.4	1305.4	1305.7
152.5°	1327.6	1327.8	1327.9	1328.0	1328.1	1328.0	1327.7	1327.3	1326.9	1326.5	1326.9
155°	1355.8	1356.6	1357.3	1358.0	1358.8	1358.7	1357.6	1356.7	1355.8	1354.7	1355.5
157.5°	1379.5	1380.7	1382.1	1383.3	1384.6	1384.6	1383.3	1382.1	1380.7	1379.5	1380.4
160°	1395.2	1396.8	1398.2	1399.7	1401.1	1401.1	1399.7	1398.2	1396.8	1395.2	1395.5
162.5°	1407.5	1409.2	1410.9	1412.5	1414.2	1414.3	1412.8	1411.4	1409.9	1408.4	1408.6
165°	1424.8	1427.0	1429.2	1431.4	1433.6	1433.7	1431.8	1429.8	1427.9	1426.0	1426.0
167.5°	1437.8	1440.2	1442.7	1445.1	1447.5	1447.7	1445.5	1443.4	1441.2	1439.1	1439.3
170°	1445.7	1448.1	1450.5	1452.9	1455.4	1455.7	1453.7	1451.7	1449.8	1447.8	1447.6
172.5°	1450.0	1452.6	1455.3	1457.9	1460.6	1460.8	1459.0	1457.0	1455.0	1453.1	1452.8
175°	1455.5	1458.4	1461.3	1464.2	1467.2	1467.5	1465.4	1463.2	1460.9	1458.8	1458.6
177.5°	1459.1	1461.3	1463.7	1466.0	1468.4	1468.8	1467.2	1465.7	1464.1	1462.5	1462.2
180°	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1875.0	1866.6	1860.6	1855.8	1842.5	1834.7	1828.6	1820.2	1810.6	1800.4	1787.7
5°	1981.4	1955.9	1937.0	1908.5	1881.3	1858.8	1835.4	1814.4	1788.8	1761.0	1740.6
7.5°	2093.3	2055.2	2006.4	1964.2	1916.6	1875.2	1838.1	1800.3	1760.8	1722.6	1687.5
10°	2164.3	2115.3	2061.2	1997.2	1937.0	1883.6	1833.9	1785.7	1739.1	1692.4	1652.6
12.5°	2240.8	2179.8	2099.7	2025.0	1957.5	1886.0	1826.1	1767.1	1710.8	1661.8	1615.2
15°	2343.4	2255.3	2162.8	2062.7	1973.9	1890.4	1808.4	1733.8	1670.7	1605.9	1560.8
17.5°	2406.5	2297.5	2191.7	2087.1	1979.6	1874.2	1785.7	1699.9	1620.7	1556.4	1499.5
20°	2448.0	2339.7	2207.9	2103.4	1975.4	1867.1	1764.7	1669.1	1586.4	1517.9	1459.2
22.5°	2484.2	2358.9	2227.2	2089.5	1962.2	1847.2	1735.2	1639.0	1554.4	1482.3	1426.1
25°	2503.7	2359.9	2217.0	2080.0	1935.5	1799.3	1697.7	1584.9	1494.5	1418.5	1358.3
27.5°	2505.8	2352.1	2190.4	2038.2	1889.0	1762.2	1633.9	1533.0	1439.3	1359.0	1301.2
30°	2499.2	2338.9	2165.0	2000.3	1850.5	1712.8	1601.4	1491.6	1396.0	1316.2	1255.9
32.5°	2478.1	2311.2	2132.5	1958.1	1802.9	1668.2	1553.2	1448.8	1355.7	1277.1	1213.8
35°	2417.2	2252.3	2061.9	1880.6	1721.8	1585.6	1481.8	1375.6	1282.3	1207.9	1146.9
37.5°	2321.9	2172.8	1979.3	1791.7	1635.7	1498.9	1396.0	1300.0	1216.0	1140.3	1077.8
40°	2238.8	2107.9	1913.7	1730.8	1562.3	1432.1	1335.8	1247.7	1164.1	1092.7	1033.2
42.5°	2143.1	2029.0	1849.9	1656.1	1493.6	1362.8	1268.9	1189.9	1111.2	1045.1	985.7
45°	1972.4	1897.1	1728.6	1549.4	1380.2	1256.7	1167.2	1098.0	1031.7	967.0	917.4
47.5°	1776.1	1738.8	1596.9	1426.8	1266.0	1144.4	1066.8	1002.9	944.7	889.9	846.1
50°	1644.3	1626.3	1503.5	1339.5	1186.0	1071.6	993.3	938.4	888.7	840.6	799.2
52.5°	1514.3	1513.6	1403.1	1252.8	1110.8	1000.6	922.9	871.6	828.6	789.4	752.2
55°	1315.4	1336.5	1250.0	1116.0	988.8	889.5	819.5	773.6	743.5	711.1	683.3
57.5°	1132.8	1167.8	1096.5	978.5	872.3	780.8	719.9	685.4	653.4	633.8	613.5
60°	1013.7	1046.8	991.1	891.7	791.6	713.4	655.4	624.6	596.7	583.2	568.9
62.5°	907.7	937.2	896.0	803.9	717.0	641.8	592.9	563.2	544.4	529.6	520.2
65°	756.3	781.2	745.7	678.8	604.3	544.1	504.2	480.9	462.8	456.8	446.3
67.5°	611.3	634.0	614.8	557.9	498.1	452.6	421.4	399.0	388.3	383.0	375.5
70°	525.3	547.8	527.5	477.9	432.0	393.6	364.2	351.5	340.2	337.9	327.3
72.5°	452.4	467.8	447.4	408.6	369.4	337.0	314.2	300.9	295.0	291.0	285.2
75°	339.4	353.0	339.4	309.2	281.4	258.9	239.3	234.0	227.2	225.0	221.2
77.5°	240.3	251.9	241.6	222.7	202.0	184.5	174.0	167.2	165.7	161.8	163.6
80°	183.6	191.1	181.3	168.5	152.0	140.0	132.4	128.7	124.1	122.6	125.6
82.5°	131.9	135.2	130.2	121.6	109.2	101.4	96.3	92.0	91.0	91.3	91.3
85°	68.5	67.8	67.0	59.5	55.7	50.4	47.4	46.7	45.9	47.4	48.9
87.5°	27.0	27.1	26.1	23.3	20.9	18.6	17.4	16.3	17.4	18.6	19.7
90°	20.2	18.3	16.3	13.9	11.3	8.7	5.9	3.3	5.9	8.7	11.3
92.5°	19.3	17.3	15.5	14.4	14.2	14.1	13.9	13.8	13.9	14.1	14.2
95°	23.6	23.4	23.1	27.1	35.4	43.6	51.9	60.2	51.9	43.6	35.4
97.5°	83.2	110.4	137.5	148.5	143.4	138.3	133.1	127.9	133.1	138.3	143.4
100°	115.4	148.9	182.6	197.2	192.7	188.4	184.0	179.6	184.0	188.4	192.7
102.5°	240.9	245.3	249.7	250.2	247.0	243.8	240.6	237.4	240.6	243.8	247.0
105°	339.2	338.1	336.9	335.5	334.0	332.5	331.1	329.6	331.1	332.5	334.0
107.5°	422.7	421.0	419.4	418.2	417.5	416.8	416.0	415.3	416.0	416.8	417.5
110°	480.0	478.6	477.1	476.1	475.3	474.6	473.8	473.2	473.8	474.6	475.3



TEST NUMBER: P332706-830

CATALOG NUMBER: SA4XXDIP-C1195D1205U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	536.8	536.1	535.5	534.4	533.1	531.8	530.6	529.2	530.6	531.8	533.1
115°	618.2	618.4	618.7	618.4	617.6	617.0	616.2	615.5	616.2	617.0	617.6
117.5°	699.0	698.4	697.9	697.1	696.2	695.2	694.2	693.2	694.2	695.2	696.2
120°	749.6	749.9	750.1	749.7	748.8	747.8	746.8	745.8	746.8	747.8	748.8
122.5°	798.3	798.1	797.7	797.2	796.6	796.1	795.5	794.8	795.5	796.1	796.6
125°	868.4	868.8	869.3	869.1	868.1	867.1	866.2	865.2	866.2	867.1	868.1
127.5°	935.7	934.5	933.4	932.7	932.6	932.3	932.0	931.8	932.0	932.3	932.6
130°	977.6	976.9	976.2	975.7	975.4	975.2	975.0	974.7	975.0	975.2	975.4
132.5°	1018.4	1017.5	1016.6	1015.9	1015.5	1015.0	1014.6	1014.2	1014.6	1015.0	1015.5
135°	1074.6	1073.7	1072.7	1072.3	1072.5	1072.8	1073.1	1073.3	1073.1	1072.8	1072.5
137.5°	1128.8	1127.7	1126.6	1126.1	1126.0	1125.9	1125.8	1125.7	1125.8	1125.9	1126.0
140°	1163.2	1162.7	1162.2	1161.8	1161.3	1160.7	1160.3	1159.8	1160.3	1160.7	1161.3
142.5°	1195.1	1194.9	1194.6	1194.0	1193.1	1192.2	1191.4	1190.4	1191.4	1192.2	1193.1
145°	1240.9	1240.9	1240.9	1240.5	1239.7	1239.1	1238.3	1237.6	1238.3	1239.1	1239.7
147.5°	1280.5	1280.8	1281.0	1280.4	1279.1	1277.7	1276.4	1275.0	1276.4	1277.7	1279.1
150°	1306.0	1306.2	1306.5	1306.1	1305.1	1304.1	1303.2	1302.2	1303.2	1304.1	1305.1
152.5°	1327.4	1327.9	1328.2	1328.0	1327.3	1326.5	1325.8	1324.9	1325.8	1326.5	1327.3
155°	1356.2	1357.0	1357.6	1357.9	1357.6	1357.4	1357.2	1357.0	1357.2	1357.4	1357.6
157.5°	1381.2	1382.0	1382.8	1383.3	1383.5	1383.6	1383.7	1383.8	1383.7	1383.6	1383.5
160°	1395.7	1396.0	1396.3	1396.8	1397.5	1398.2	1398.9	1399.7	1398.9	1398.2	1397.5
162.5°	1408.9	1409.1	1409.4	1409.9	1410.9	1411.8	1412.8	1413.6	1412.8	1411.8	1410.9
165°	1426.0	1426.0	1426.0	1426.5	1427.8	1429.0	1430.2	1431.4	1430.2	1429.0	1427.8
167.5°	1439.4	1439.5	1439.6	1440.4	1441.6	1442.9	1444.2	1445.4	1444.2	1442.9	1441.6
170°	1447.4	1447.1	1446.9	1447.5	1449.0	1450.4	1451.9	1453.3	1451.9	1450.4	1449.0
172.5°	1452.6	1452.4	1452.1	1452.7	1454.2	1455.7	1457.1	1458.6	1457.1	1455.7	1454.2
175°	1458.3	1458.0	1457.8	1458.4	1459.9	1461.3	1462.8	1464.2	1462.8	1461.3	1459.9
177.5°	1461.7	1461.3	1460.9	1461.4	1462.8	1464.1	1465.6	1466.9	1465.6	1464.1	1462.8
180°	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2



TEST NUMBER: P332706-830
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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1781.7	1776.3	1768.5	1757.7	1748.6	1739.0	1736.5	1733.0	1740.1	1734.2	1732.3
5°	1723.3	1707.5	1687.2	1663.9	1650.3	1630.8	1627.0	1619.5	1611.9	1611.2	1603.6
7.5°	1661.4	1638.2	1611.7	1587.8	1565.8	1544.5	1530.5	1527.5	1516.4	1509.9	1502.3
10°	1621.7	1593.1	1562.3	1539.7	1514.1	1491.6	1475.7	1466.7	1459.2	1450.9	1443.4
12.5°	1574.8	1544.4	1518.9	1494.5	1464.1	1447.0	1421.0	1405.3	1403.8	1403.9	1384.4
15°	1520.1	1490.1	1450.9	1416.3	1399.7	1366.6	1352.3	1334.3	1323.0	1311.6	1302.7
17.5°	1457.6	1420.2	1389.6	1349.9	1318.3	1291.9	1273.2	1262.3	1245.3	1229.4	1217.8
20°	1418.5	1378.7	1346.3	1304.1	1269.5	1237.2	1221.3	1206.4	1193.5	1180.0	1167.2
22.5°	1378.8	1337.1	1297.5	1256.6	1224.4	1190.2	1175.0	1154.5	1142.4	1134.8	1122.0
25°	1316.2	1271.0	1225.9	1186.8	1153.7	1123.5	1103.2	1087.4	1073.8	1067.8	1059.6
27.5°	1248.1	1203.3	1159.7	1115.2	1077.6	1055.8	1039.5	1027.7	1019.8	1011.8	1008.1
30°	1204.9	1158.2	1111.5	1070.1	1035.5	1013.7	998.6	990.3	984.3	980.5	976.8
32.5°	1160.8	1114.8	1065.7	1027.9	996.9	977.5	966.1	957.8	954.8	953.5	952.2
35°	1090.4	1043.8	998.6	964.8	935.4	927.8	918.1	913.6	912.1	917.4	919.6
37.5°	1022.3	978.9	937.4	904.6	885.3	874.3	871.0	871.1	876.6	881.2	886.6
40°	978.3	936.1	897.0	868.5	850.4	843.6	842.1	845.8	851.9	857.1	863.2
42.5°	935.6	894.0	858.5	831.7	819.1	812.8	813.8	817.6	826.0	832.5	841.5
45°	869.2	834.5	799.9	778.2	767.6	769.1	769.1	775.9	784.1	793.9	803.7
47.5°	806.7	771.8	743.4	725.0	719.5	718.2	722.5	731.3	743.2	755.3	768.9
50°	764.6	731.5	706.6	690.0	684.1	686.4	692.3	700.6	714.9	730.0	744.2
52.5°	721.8	691.7	668.7	653.4	649.1	653.2	659.2	672.3	684.9	701.1	718.4
55°	655.4	629.9	611.8	600.5	599.0	601.2	608.0	622.4	640.4	660.7	677.3
57.5°	589.4	568.0	551.5	543.7	544.4	546.5	557.6	574.7	593.9	615.6	637.0
60°	544.8	525.3	511.7	505.7	506.4	511.0	524.5	540.4	564.4	585.5	608.0
62.5°	502.7	485.5	472.6	467.2	466.1	476.1	489.0	505.4	529.5	553.0	577.3
65°	435.0	421.4	410.9	407.8	410.1	417.6	434.2	456.0	476.4	501.1	526.8
67.5°	368.7	357.6	350.3	351.8	354.5	365.6	379.5	398.2	421.3	447.0	472.3
70°	326.6	316.0	310.0	310.8	315.3	328.9	340.9	359.7	384.6	410.9	432.0
72.5°	283.2	276.4	270.9	274.1	278.6	287.9	302.9	321.8	343.7	368.2	390.4
75°	217.4	217.4	214.4	216.7	223.5	232.5	243.8	263.3	285.2	304.8	322.8
77.5°	161.4	159.7	161.6	164.4	168.2	179.0	191.9	205.9	222.3	241.9	256.7
80°	123.4	124.1	127.9	132.4	133.9	142.2	155.8	168.5	181.3	197.9	212.3
82.5°	92.7	93.5	95.4	101.1	102.6	111.5	120.3	133.1	144.7	155.8	167.7
85°	50.4	50.4	54.2	56.5	60.2	66.3	71.4	79.0	89.5	97.1	108.4
87.5°	22.1	22.5	25.4	27.0	29.1	32.5	34.0	40.9	43.6	46.9	52.5
90°	13.9	16.3	18.3	20.2	22.1	24.1	25.5	27.1	28.5	30.0	30.9
92.5°	14.4	15.5	17.3	19.3	21.3	23.2	24.7	26.1	27.6	29.0	29.9
95°	27.1	23.1	23.4	23.6	23.8	24.1	25.5	27.1	28.5	30.0	30.8
97.5°	148.5	137.5	110.4	83.2	56.1	28.9	29.0	29.2	29.3	29.5	29.7
100°	197.2	182.6	148.9	115.4	81.8	48.2	44.0	39.9	35.8	31.7	29.7
102.5°	250.2	249.7	245.3	240.9	236.6	232.1	187.6	142.9	98.3	53.6	31.4
105°	335.5	336.9	338.1	339.2	340.4	341.7	343.9	346.1	348.3	350.4	347.1
107.5°	418.2	419.4	421.0	422.7	424.3	426.0	427.1	428.2	429.2	430.3	431.3
110°	476.1	477.1	478.6	480.0	481.5	483.0	483.4	484.0	484.5	484.9	485.5



TEST NUMBER: P332706-830

CATALOG NUMBER: SA4XXDIP-C1195D1205U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	534.4	535.5	536.1	536.8	537.5	538.2	538.1	538.0	537.9	537.8	538.2
115°	618.4	618.7	618.4	618.2	617.9	617.6	618.2	618.7	619.2	619.6	619.9
117.5°	697.1	697.9	698.4	699.0	699.6	700.0	699.9	699.8	699.7	699.6	699.6
120°	749.7	750.1	749.9	749.6	749.3	749.1	749.6	750.1	750.5	751.0	751.0
122.5°	797.2	797.7	798.1	798.3	798.7	799.1	799.4	799.7	799.9	800.2	800.1
125°	869.1	869.3	868.8	868.4	867.9	867.4	868.1	868.8	869.6	870.3	870.8
127.5°	932.7	933.4	934.5	935.7	936.8	937.9	937.7	937.6	937.5	937.4	937.2
130°	975.7	976.2	976.9	977.6	978.4	979.1	979.3	979.6	979.9	980.1	980.1
132.5°	1015.9	1016.6	1017.5	1018.4	1019.4	1020.3	1020.5	1020.8	1021.1	1021.2	1021.2
135°	1072.3	1072.7	1073.7	1074.6	1075.6	1076.6	1077.0	1077.5	1078.0	1078.6	1079.0
137.5°	1126.1	1126.6	1127.7	1128.8	1129.8	1130.9	1131.4	1132.0	1132.5	1133.0	1133.2
140°	1161.8	1162.2	1162.7	1163.2	1163.7	1164.2	1164.9	1165.6	1166.4	1167.2	1167.6
142.5°	1194.0	1194.6	1194.9	1195.1	1195.4	1195.7	1196.3	1196.8	1197.3	1197.9	1198.2
145°	1240.5	1240.9	1240.9	1240.9	1240.9	1240.9	1241.1	1241.3	1241.6	1241.8	1242.2
147.5°	1280.4	1281.0	1280.8	1280.5	1280.3	1280.1	1280.3	1280.4	1280.6	1280.8	1281.0
150°	1306.1	1306.5	1306.2	1306.0	1305.7	1305.4	1305.4	1305.4	1305.4	1305.4	1305.6
152.5°	1328.0	1328.2	1327.9	1327.4	1326.9	1326.5	1326.9	1327.3	1327.7	1328.0	1328.1
155°	1357.9	1357.6	1357.0	1356.2	1355.5	1354.7	1355.8	1356.7	1357.6	1358.7	1358.8
157.5°	1383.3	1382.8	1382.0	1381.2	1380.4	1379.5	1380.7	1382.1	1383.3	1384.6	1384.6
160°	1396.8	1396.3	1396.0	1395.7	1395.5	1395.2	1396.8	1398.2	1399.7	1401.1	1401.1
162.5°	1409.9	1409.4	1409.1	1408.9	1408.6	1408.4	1409.9	1411.4	1412.8	1414.3	1414.2
165°	1426.5	1426.0	1426.0	1426.0	1426.0	1426.0	1427.9	1429.8	1431.8	1433.7	1433.6
167.5°	1440.4	1439.6	1439.5	1439.4	1439.3	1439.1	1441.2	1443.4	1445.5	1447.7	1447.5
170°	1447.5	1446.9	1447.1	1447.4	1447.6	1447.8	1449.8	1451.7	1453.7	1455.7	1455.4
172.5°	1452.7	1452.1	1452.4	1452.6	1452.8	1453.1	1455.0	1457.0	1459.0	1460.8	1460.6
175°	1458.4	1457.8	1458.0	1458.3	1458.6	1458.8	1460.9	1463.2	1465.4	1467.5	1467.2
177.5°	1461.4	1460.9	1461.3	1461.7	1462.2	1462.5	1464.1	1465.7	1467.2	1468.8	1468.4
180°	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2



TEST NUMBER: P332706-830

CATALOG NUMBER: SA4XXDIP-C1195D1205U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1731.2	1729.9	1725.7	1725.1	1725.7	1729.9	1731.2	1732.3	1734.2	1740.1	1733.0
5°	1599.1	1595.3	1593.1	1601.4	1593.1	1595.3	1599.1	1603.6	1611.2	1611.9	1619.5
7.5°	1499.7	1496.7	1490.1	1487.9	1490.1	1496.7	1499.7	1502.3	1509.9	1516.4	1527.5
10°	1435.9	1432.9	1426.8	1425.3	1426.8	1432.9	1435.9	1443.4	1450.9	1459.2	1466.7
12.5°	1374.4	1368.4	1367.3	1368.8	1367.3	1368.4	1374.4	1384.4	1403.9	1403.8	1405.3
15°	1292.9	1289.9	1281.6	1283.8	1281.6	1289.9	1292.9	1302.7	1311.6	1323.0	1334.3
17.5°	1212.5	1208.9	1198.8	1207.7	1198.8	1208.9	1212.5	1217.8	1229.4	1245.3	1262.3
20°	1161.9	1155.9	1150.7	1149.9	1150.7	1155.9	1161.9	1167.2	1180.0	1193.5	1206.4
22.5°	1113.7	1108.3	1107.9	1103.0	1107.9	1108.3	1113.7	1122.0	1134.8	1142.4	1154.5
25°	1053.6	1048.3	1046.8	1043.0	1046.8	1048.3	1053.6	1059.6	1067.8	1073.8	1087.4
27.5°	1007.4	1004.8	1002.1	1003.2	1002.1	1004.8	1007.4	1008.1	1011.8	1019.8	1027.7
30°	979.0	978.3	976.8	976.8	976.8	978.3	979.0	976.8	980.5	984.3	990.3
32.5°	955.5	955.5	956.3	956.3	956.3	955.5	955.5	952.2	953.5	954.8	957.8
35°	922.7	924.8	926.3	924.1	926.3	924.8	922.7	919.6	917.4	912.1	913.6
37.5°	892.8	895.0	897.2	899.8	897.2	895.0	892.8	886.6	881.2	876.6	871.1
40°	870.0	875.2	876.7	880.4	876.7	875.2	870.0	863.2	857.1	851.9	845.8
42.5°	848.3	854.1	858.0	858.8	858.0	854.1	848.3	841.5	832.5	826.0	817.6
45°	815.0	821.0	826.3	826.3	826.3	821.0	815.0	803.7	793.9	784.1	775.9
47.5°	780.5	789.3	794.6	795.9	794.6	789.3	780.5	768.9	755.3	743.2	731.3
50°	757.1	767.6	772.9	776.7	772.9	767.6	757.1	744.2	730.0	714.9	700.6
52.5°	734.1	744.7	751.8	753.8	751.8	744.7	734.1	718.4	701.1	684.9	672.3
55°	694.6	709.6	717.9	721.0	717.9	709.6	694.6	677.3	660.7	640.4	622.4
57.5°	657.2	671.1	680.7	683.0	680.7	671.1	657.2	637.0	615.6	593.9	574.7
60°	628.4	643.4	655.4	657.7	655.4	643.4	628.4	608.0	585.5	564.4	540.4
62.5°	598.9	614.5	625.4	631.2	625.4	614.5	598.9	577.3	553.0	529.5	505.4
65°	547.8	563.6	574.2	576.5	574.2	563.6	547.8	526.8	501.1	476.4	456.0
67.5°	492.2	507.9	514.9	519.2	514.9	507.9	492.2	472.3	447.0	421.3	398.2
70°	453.0	465.8	473.3	477.1	473.3	465.8	453.0	432.0	410.9	384.6	359.7
72.5°	408.5	421.9	430.6	431.3	430.6	421.9	408.5	390.4	368.2	343.7	321.8
75°	340.2	352.2	356.7	356.7	356.7	352.2	340.2	322.8	304.8	285.2	263.3
77.5°	269.3	275.4	281.2	282.4	281.2	275.4	269.3	256.7	241.9	222.3	205.9
80°	223.5	227.2	231.8	231.8	231.8	227.2	223.5	212.3	197.9	181.3	168.5
82.5°	176.5	179.7	184.3	183.6	184.3	179.7	176.5	167.7	155.8	144.7	133.1
85°	106.9	113.7	112.9	111.4	112.9	113.7	106.9	108.4	97.1	89.5	79.0
87.5°	54.5	55.1	57.0	58.3	57.0	55.1	54.5	52.5	46.9	43.6	40.9
90°	31.4	31.9	32.3	32.9	32.3	31.9	31.4	30.9	30.0	28.5	27.1
92.5°	30.0	30.1	30.2	30.3	30.2	30.1	30.0	29.9	29.0	27.6	26.1
95°	31.0	31.3	31.5	31.8	31.5	31.3	31.0	30.8	30.0	28.5	27.1
97.5°	30.0	30.2	30.4	30.6	30.4	30.2	30.0	29.7	29.5	29.3	29.2
100°	30.0	30.2	30.4	30.6	30.4	30.2	30.0	29.7	31.7	35.8	39.9
102.5°	31.4	31.5	31.5	31.6	31.5	31.5	31.4	31.4	53.6	98.3	142.9
105°	338.4	329.6	320.9	312.2	320.9	329.6	338.4	347.1	350.4	348.3	346.1
107.5°	432.3	433.2	434.0	435.0	434.0	433.2	432.3	431.3	430.3	429.2	428.2
110°	486.3	487.0	487.8	488.4	487.8	487.0	486.3	485.5	484.9	484.5	484.0



TEST NUMBER: P332706-830

CATALOG NUMBER: SA4XXDIP-C1195D1205U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	539.1	540.1	541.0	541.9	541.0	540.1	539.1	538.2	537.8	537.9	538.0
115°	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.6	619.2	618.7
117.5°	699.5	699.4	699.3	699.2	699.3	699.4	699.5	699.6	699.6	699.7	699.8
120°	750.5	750.1	749.6	749.1	749.6	750.1	750.5	751.0	751.0	750.5	750.1
122.5°	799.7	799.2	798.6	798.1	798.6	799.2	799.7	800.1	800.2	799.9	799.7
125°	871.0	871.3	871.6	871.8	871.6	871.3	871.0	870.8	870.3	869.6	868.8
127.5°	937.0	936.8	936.6	936.4	936.6	936.8	937.0	937.2	937.4	937.5	937.6
130°	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1	979.9	979.6
132.5°	1021.1	1020.9	1020.7	1020.5	1020.7	1020.9	1021.1	1021.2	1021.2	1021.1	1020.8
135°	1079.5	1080.0	1080.4	1080.9	1080.4	1080.0	1079.5	1079.0	1078.6	1078.0	1077.5
137.5°	1133.1	1132.9	1132.7	1132.7	1132.7	1132.9	1133.1	1133.2	1133.0	1132.5	1132.0
140°	1167.8	1168.1	1168.3	1168.6	1168.3	1168.1	1167.8	1167.6	1167.2	1166.4	1165.6
142.5°	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.2	1197.9	1197.3	1196.8
145°	1242.6	1243.1	1243.7	1244.2	1243.7	1243.1	1242.6	1242.2	1241.8	1241.6	1241.3
147.5°	1281.3	1281.6	1281.8	1282.0	1281.8	1281.6	1281.3	1281.0	1280.8	1280.6	1280.4
150°	1305.8	1306.1	1306.4	1306.6	1306.4	1306.1	1305.8	1305.6	1305.4	1305.4	1305.4
152.5°	1328.0	1327.9	1327.8	1327.6	1327.8	1327.9	1328.0	1328.1	1328.0	1327.7	1327.3
155°	1358.0	1357.3	1356.6	1355.8	1356.6	1357.3	1358.0	1358.8	1358.7	1357.6	1356.7
157.5°	1383.3	1382.1	1380.7	1379.5	1380.7	1382.1	1383.3	1384.6	1384.6	1383.3	1382.1
160°	1399.7	1398.2	1396.8	1395.2	1396.8	1398.2	1399.7	1401.1	1401.1	1399.7	1398.2
162.5°	1412.5	1410.9	1409.2	1407.5	1409.2	1410.9	1412.5	1414.2	1414.3	1412.8	1411.4
165°	1431.4	1429.2	1427.0	1424.8	1427.0	1429.2	1431.4	1433.6	1433.7	1431.8	1429.8
167.5°	1445.1	1442.7	1440.2	1437.8	1440.2	1442.7	1445.1	1447.5	1447.7	1445.5	1443.4
170°	1452.9	1450.5	1448.1	1445.7	1448.1	1450.5	1452.9	1455.4	1455.7	1453.7	1451.7
172.5°	1457.9	1455.3	1452.6	1450.0	1452.6	1455.3	1457.9	1460.6	1460.8	1459.0	1457.0
175°	1464.2	1461.3	1458.4	1455.5	1458.4	1461.3	1464.2	1467.2	1467.5	1465.4	1463.2
177.5°	1466.0	1463.7	1461.3	1459.1	1461.3	1463.7	1466.0	1468.4	1468.8	1467.2	1465.7
180°	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2



TEST NUMBER: P332706-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1736.5	1739.0	1748.6	1757.7	1768.5	1776.3	1781.7	1787.7	1800.4	1810.6	1820.2
5°	1627.0	1630.8	1650.3	1663.9	1687.2	1707.5	1723.3	1740.6	1761.0	1788.8	1814.4
7.5°	1530.5	1544.5	1565.8	1587.8	1611.7	1638.2	1661.4	1687.5	1722.6	1760.8	1800.3
10°	1475.7	1491.6	1514.1	1539.7	1562.3	1593.1	1621.7	1652.6	1692.4	1739.1	1785.7
12.5°	1421.0	1447.0	1464.1	1494.5	1518.9	1544.4	1574.8	1615.2	1661.8	1710.8	1767.1
15°	1352.3	1366.6	1399.7	1416.3	1450.9	1490.1	1520.1	1560.8	1605.9	1670.7	1733.8
17.5°	1273.2	1291.9	1318.3	1349.9	1389.6	1420.2	1457.6	1499.5	1556.4	1620.7	1699.9
20°	1221.3	1237.2	1269.5	1304.1	1346.3	1378.7	1418.5	1459.2	1517.9	1586.4	1669.1
22.5°	1175.0	1190.2	1224.4	1256.6	1297.5	1337.1	1378.8	1426.1	1482.3	1554.4	1639.0
25°	1103.2	1123.5	1153.7	1186.8	1225.9	1271.0	1316.2	1358.3	1418.5	1494.5	1584.9
27.5°	1039.5	1055.8	1077.6	1115.2	1159.7	1203.3	1248.1	1301.2	1359.0	1439.3	1533.0
30°	998.6	1013.7	1035.5	1070.1	1111.5	1158.2	1204.9	1255.9	1316.2	1396.0	1491.6
32.5°	966.1	977.5	996.9	1027.9	1065.7	1114.8	1160.8	1213.8	1277.1	1355.7	1448.8
35°	918.1	927.8	935.4	964.8	998.6	1043.8	1090.4	1146.9	1207.9	1282.3	1375.6
37.5°	871.0	874.3	885.3	904.6	937.4	978.9	1022.3	1077.8	1140.3	1216.0	1300.0
40°	842.1	843.6	850.4	868.5	897.0	936.1	978.3	1033.2	1092.7	1164.1	1247.7
42.5°	813.8	812.8	819.1	831.7	858.5	894.0	935.6	985.7	1045.1	1111.2	1189.9
45°	769.1	769.1	767.6	778.2	799.9	834.5	869.2	917.4	967.0	1031.7	1098.0
47.5°	722.5	718.2	719.5	725.0	743.4	771.8	806.7	846.1	889.9	944.7	1002.9
50°	692.3	686.4	684.1	690.0	706.6	731.5	764.6	799.2	840.6	888.7	938.4
52.5°	659.2	653.2	649.1	653.4	668.7	691.7	721.8	752.2	789.4	828.6	871.6
55°	608.0	601.2	599.0	600.5	611.8	629.9	655.4	683.3	711.1	743.5	773.6
57.5°	557.6	546.5	544.4	543.7	551.5	568.0	589.4	613.5	633.8	653.4	685.4
60°	524.5	511.0	506.4	505.7	511.7	525.3	544.8	568.9	583.2	596.7	624.6
62.5°	489.0	476.1	466.1	467.2	472.6	485.5	502.7	520.2	529.6	544.4	563.2
65°	434.2	417.6	410.1	407.8	410.9	421.4	435.0	446.3	456.8	462.8	480.9
67.5°	379.5	365.6	354.5	351.8	350.3	357.6	368.7	375.5	383.0	388.3	399.0
70°	340.9	328.9	315.3	310.8	310.0	316.0	326.6	327.3	337.9	340.2	351.5
72.5°	302.9	287.9	278.6	274.1	270.9	276.4	283.2	285.2	291.0	295.0	300.9
75°	243.8	232.5	223.5	216.7	214.4	217.4	217.4	221.2	225.0	227.2	234.0
77.5°	191.9	179.0	168.2	164.4	161.6	159.7	161.4	163.6	161.8	165.7	167.2
80°	155.8	142.2	133.9	132.4	127.9	124.1	123.4	125.6	122.6	124.1	128.7
82.5°	120.3	111.5	102.6	101.1	95.4	93.5	92.7	91.3	91.3	91.0	92.0
85°	71.4	66.3	60.2	56.5	54.2	50.4	50.4	48.9	47.4	45.9	46.7
87.5°	34.0	32.5	29.1	27.0	25.4	22.5	22.1	19.7	18.6	17.4	16.3
90°	25.5	24.1	22.1	20.2	18.3	16.3	13.9	11.3	8.7	5.9	3.3
92.5°	24.7	23.2	21.3	19.3	17.3	15.5	14.4	14.2	14.1	13.9	13.8
95°	25.5	24.1	23.8	23.6	23.4	23.1	27.1	35.4	43.6	51.9	60.2
97.5°	29.0	28.9	56.1	83.2	110.4	137.5	148.5	143.4	138.3	133.1	127.9
100°	44.0	48.2	81.8	115.4	148.9	182.6	197.2	192.7	188.4	184.0	179.6
102.5°	187.6	232.1	236.6	240.9	245.3	249.7	250.2	247.0	243.8	240.6	237.4
105°	343.9	341.7	340.4	339.2	338.1	336.9	335.5	334.0	332.5	331.1	329.6
107.5°	427.1	426.0	424.3	422.7	421.0	419.4	418.2	417.5	416.8	416.0	415.3
110°	483.4	483.0	481.5	480.0	478.6	477.1	476.1	475.3	474.6	473.8	473.2



TEST NUMBER: P332706-830

CATALOG NUMBER: SA4XXDIP-C1195D1205U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	538.1	538.2	537.5	536.8	536.1	535.5	534.4	533.1	531.8	530.6	529.2
115°	618.2	617.6	617.9	618.2	618.4	618.7	618.4	617.6	617.0	616.2	615.5
117.5°	699.9	700.0	699.6	699.0	698.4	697.9	697.1	696.2	695.2	694.2	693.2
120°	749.6	749.1	749.3	749.6	749.9	750.1	749.7	748.8	747.8	746.8	745.8
122.5°	799.4	799.1	798.7	798.3	798.1	797.7	797.2	796.6	796.1	795.5	794.8
125°	868.1	867.4	867.9	868.4	868.8	869.3	869.1	868.1	867.1	866.2	865.2
127.5°	937.7	937.9	936.8	935.7	934.5	933.4	932.7	932.6	932.3	932.0	931.8
130°	979.3	979.1	978.4	977.6	976.9	976.2	975.7	975.4	975.2	975.0	974.7
132.5°	1020.5	1020.3	1019.4	1018.4	1017.5	1016.6	1015.9	1015.5	1015.0	1014.6	1014.2
135°	1077.0	1076.6	1075.6	1074.6	1073.7	1072.7	1072.3	1072.5	1072.8	1073.1	1073.3
137.5°	1131.4	1130.9	1129.8	1128.8	1127.7	1126.6	1126.1	1126.0	1125.9	1125.8	1125.7
140°	1164.9	1164.2	1163.7	1163.2	1162.7	1162.2	1161.8	1161.3	1160.7	1160.3	1159.8
142.5°	1196.3	1195.7	1195.4	1195.1	1194.9	1194.6	1194.0	1193.1	1192.2	1191.4	1190.4
145°	1241.1	1240.9	1240.9	1240.9	1240.9	1240.9	1240.5	1239.7	1239.1	1238.3	1237.6
147.5°	1280.3	1280.1	1280.3	1280.5	1280.8	1281.0	1280.4	1279.1	1277.7	1276.4	1275.0
150°	1305.4	1305.4	1305.7	1306.0	1306.2	1306.5	1306.1	1305.1	1304.1	1303.2	1302.2
152.5°	1326.9	1326.5	1326.9	1327.4	1327.9	1328.2	1328.0	1327.3	1326.5	1325.8	1324.9
155°	1355.8	1354.7	1355.5	1356.2	1357.0	1357.6	1357.9	1357.6	1357.4	1357.2	1357.0
157.5°	1380.7	1379.5	1380.4	1381.2	1382.0	1382.8	1383.3	1383.5	1383.6	1383.7	1383.8
160°	1396.8	1395.2	1395.5	1395.7	1396.0	1396.3	1396.8	1397.5	1398.2	1398.9	1399.7
162.5°	1409.9	1408.4	1408.6	1408.9	1409.1	1409.4	1409.9	1410.9	1411.8	1412.8	1413.6
165°	1427.9	1426.0	1426.0	1426.0	1426.0	1426.0	1426.5	1427.8	1429.0	1430.2	1431.4
167.5°	1441.2	1439.1	1439.3	1439.4	1439.5	1439.6	1440.4	1441.6	1442.9	1444.2	1445.4
170°	1449.8	1447.8	1447.6	1447.4	1447.1	1446.9	1447.5	1449.0	1450.4	1451.9	1453.3
172.5°	1455.0	1453.1	1452.8	1452.6	1452.4	1452.1	1452.7	1454.2	1455.7	1457.1	1458.6
175°	1460.9	1458.8	1458.6	1458.3	1458.0	1457.8	1458.4	1459.9	1461.3	1462.8	1464.2
177.5°	1464.1	1462.5	1462.2	1461.7	1461.3	1460.9	1461.4	1462.8	1464.1	1465.6	1466.9
180°	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2

TEST NUMBER: P332706-830

CATALOG NUMBER: SA4XXDIP-C1195D1205U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1828.6	1834.7	1842.5	1855.8	1860.6	1866.6	1875.0	1874.4	1876.8	1885.8	1905.2
5°	1835.4	1858.8	1881.3	1908.5	1937.0	1955.9	1981.4	1997.2	2013.1	2033.3	2067.9
7.5°	1838.1	1875.2	1916.6	1964.2	2006.4	2055.2	2093.3	2129.1	2161.4	2204.3	2245.6
10°	1833.9	1883.6	1937.0	1997.2	2061.2	2115.3	2164.3	2220.0	2267.4	2319.3	2366.0
12.5°	1826.1	1886.0	1957.5	2025.0	2099.7	2179.8	2240.8	2297.1	2360.1	2419.9	2491.8
15°	1808.4	1890.4	1973.9	2062.7	2162.8	2255.3	2343.4	2416.4	2484.2	2573.7	2667.8
17.5°	1785.7	1874.2	1979.6	2087.1	2191.7	2297.5	2406.5	2516.2	2601.7	2712.9	2786.5
20°	1764.7	1867.1	1975.4	2103.4	2207.9	2339.7	2448.0	2554.1	2671.5	2782.1	2870.1
22.5°	1735.2	1847.2	1962.2	2089.5	2227.2	2358.9	2484.2	2599.2	2716.7	2837.0	2943.7
25°	1697.7	1799.3	1935.5	2080.0	2217.0	2359.9	2503.7	2648.2	2774.6	2901.8	3001.1
27.5°	1633.9	1762.2	1889.0	2038.2	2190.4	2352.1	2505.8	2657.0	2789.5	2894.1	2955.6
30°	1601.4	1712.8	1850.5	2000.3	2165.0	2338.9	2499.2	2647.4	2770.9	2854.4	2879.2
32.5°	1553.2	1668.2	1802.9	1958.1	2132.5	2311.2	2478.1	2617.9	2720.8	2764.7	2734.7
35°	1481.8	1585.6	1721.8	1880.6	2061.9	2252.3	2417.2	2535.3	2587.9	2546.6	2443.4
37.5°	1396.0	1498.9	1635.7	1791.7	1979.3	2172.8	2321.9	2406.9	2389.4	2286.5	2132.9
40°	1335.8	1432.1	1562.3	1730.8	1913.7	2107.9	2238.8	2284.7	2236.6	2089.1	1925.7
42.5°	1268.9	1362.8	1493.6	1656.1	1849.9	2029.0	2143.1	2146.8	2066.1	1889.8	1725.9
45°	1167.2	1256.7	1380.2	1549.4	1728.6	1897.1	1972.4	1935.5	1786.5	1616.5	1451.6
47.5°	1066.8	1144.4	1266.0	1426.8	1596.9	1738.8	1776.1	1709.8	1551.0	1385.9	1233.1
50°	993.3	1071.6	1186.0	1339.5	1503.5	1626.3	1644.3	1556.2	1400.4	1234.2	1114.5
52.5°	922.9	1000.6	1110.8	1252.8	1403.1	1513.6	1514.3	1412.4	1257.2	1108.9	997.7
55°	819.5	889.5	988.8	1116.0	1250.0	1336.5	1315.4	1210.0	1075.3	946.7	849.6
57.5°	719.9	780.8	872.3	978.5	1096.5	1167.8	1132.8	1031.4	911.2	802.0	728.5
60°	655.4	713.4	791.6	891.7	991.1	1046.8	1013.7	921.9	811.2	723.2	659.2
62.5°	592.9	641.8	717.0	803.9	896.0	937.2	907.7	817.1	721.5	641.9	590.0
65°	504.2	544.1	604.3	678.8	745.7	781.2	756.3	672.0	599.0	541.9	500.4
67.5°	421.4	452.6	498.1	557.9	614.8	634.0	611.3	552.7	490.8	445.1	415.8
70°	364.2	393.6	432.0	477.9	527.5	547.8	525.3	478.6	428.2	386.1	357.4
72.5°	314.2	337.0	369.4	408.6	447.4	467.8	452.4	407.6	365.0	333.7	309.2
75°	239.3	258.9	281.4	309.2	339.4	353.0	339.4	308.5	279.2	255.9	238.6
77.5°	174.0	184.5	202.0	222.7	241.6	251.9	240.3	219.3	201.4	185.4	176.8
80°	132.4	140.0	152.0	168.5	181.3	191.1	183.6	166.3	152.0	141.5	137.7
82.5°	96.3	101.4	109.2	121.6	130.2	135.2	131.9	119.3	113.5	104.2	100.4
85°	47.4	50.4	55.7	59.5	67.0	67.8	68.5	63.2	58.0	55.7	52.7
87.5°	17.4	18.6	20.9	23.3	26.1	27.1	27.0	27.3	25.3	25.0	22.9
90°	5.9	8.7	11.3	13.9	16.3	18.3	20.2	22.1	24.1	25.5	27.1
92.5°	13.9	14.1	14.2	14.4	15.5	17.3	19.3	21.3	23.2	24.7	26.1
95°	51.9	43.6	35.4	27.1	23.1	23.4	23.6	23.8	24.1	25.5	27.1
97.5°	133.1	138.3	143.4	148.5	137.5	110.4	83.2	56.1	28.9	29.0	29.2
100°	184.0	188.4	192.7	197.2	182.6	148.9	115.4	81.8	48.2	44.0	39.9
102.5°	240.6	243.8	247.0	250.2	249.7	245.3	240.9	236.6	232.1	187.6	142.9
105°	331.1	332.5	334.0	335.5	336.9	338.1	339.2	340.4	341.7	343.9	346.1
107.5°	416.0	416.8	417.5	418.2	419.4	421.0	422.7	424.3	426.0	427.1	428.2
110°	473.8	474.6	475.3	476.1	477.1	478.6	480.0	481.5	483.0	483.4	484.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	530.6	531.8	533.1	534.4	535.5	536.1	536.8	537.5	538.2	538.1	538.0
115°	616.2	617.0	617.6	618.4	618.7	618.4	618.2	617.9	617.6	618.2	618.7
117.5°	694.2	695.2	696.2	697.1	697.9	698.4	699.0	699.6	700.0	699.9	699.8
120°	746.8	747.8	748.8	749.7	750.1	749.9	749.6	749.3	749.1	749.6	750.1
122.5°	795.5	796.1	796.6	797.2	797.7	798.1	798.3	798.7	799.1	799.4	799.7
125°	866.2	867.1	868.1	869.1	869.3	868.8	868.4	867.9	867.4	868.1	868.8
127.5°	932.0	932.3	932.6	932.7	933.4	934.5	935.7	936.8	937.9	937.7	937.6
130°	975.0	975.2	975.4	975.7	976.2	976.9	977.6	978.4	979.1	979.3	979.6
132.5°	1014.6	1015.0	1015.5	1015.9	1016.6	1017.5	1018.4	1019.4	1020.3	1020.5	1020.8
135°	1073.1	1072.8	1072.5	1072.3	1072.7	1073.7	1074.6	1075.6	1076.6	1077.0	1077.5
137.5°	1125.8	1125.9	1126.0	1126.1	1126.6	1127.7	1128.8	1129.8	1130.9	1131.4	1132.0
140°	1160.3	1160.7	1161.3	1161.8	1162.2	1162.7	1163.2	1163.7	1164.2	1164.9	1165.6
142.5°	1191.4	1192.2	1193.1	1194.0	1194.6	1194.9	1195.1	1195.4	1195.7	1196.3	1196.8
145°	1238.3	1239.1	1239.7	1240.5	1240.9	1240.9	1240.9	1240.9	1240.9	1241.1	1241.3
147.5°	1276.4	1277.7	1279.1	1280.4	1281.0	1280.8	1280.5	1280.3	1280.1	1280.3	1280.4
150°	1303.2	1304.1	1305.1	1306.1	1306.5	1306.2	1306.0	1305.7	1305.4	1305.4	1305.4
152.5°	1325.8	1326.5	1327.3	1328.0	1328.2	1327.9	1327.4	1326.9	1326.5	1326.9	1327.3
155°	1357.2	1357.4	1357.6	1357.9	1357.6	1357.0	1356.2	1355.5	1354.7	1355.8	1356.7
157.5°	1383.7	1383.6	1383.5	1383.3	1382.8	1382.0	1381.2	1380.4	1379.5	1380.7	1382.1
160°	1398.9	1398.2	1397.5	1396.8	1396.3	1396.0	1395.7	1395.5	1395.2	1396.8	1398.2
162.5°	1412.8	1411.8	1410.9	1409.9	1409.4	1409.1	1408.9	1408.6	1408.4	1409.9	1411.4
165°	1430.2	1429.0	1427.8	1426.5	1426.0	1426.0	1426.0	1426.0	1426.0	1427.9	1429.8
167.5°	1444.2	1442.9	1441.6	1440.4	1439.6	1439.5	1439.4	1439.3	1439.1	1441.2	1443.4
170°	1451.9	1450.4	1449.0	1447.5	1446.9	1447.1	1447.4	1447.6	1447.8	1449.8	1451.7
172.5°	1457.1	1455.7	1454.2	1452.7	1452.1	1452.4	1452.6	1452.8	1453.1	1455.0	1457.0
175°	1462.8	1461.3	1459.9	1458.4	1457.8	1458.0	1458.3	1458.6	1458.8	1460.9	1463.2
177.5°	1465.6	1464.1	1462.8	1461.4	1460.9	1461.3	1461.7	1462.2	1462.5	1464.1	1465.7
180°	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1914.8	1916.0	1921.4	1925.6	1926.8	1932.8	1933.4
5°	2083.0	2095.8	2120.6	2122.9	2126.7	2146.3	2131.2
7.5°	2280.2	2312.7	2334.4	2353.5	2360.4	2369.0	2367.2
10°	2406.6	2454.8	2478.9	2517.2	2518.8	2528.6	2522.5
12.5°	2533.6	2589.6	2633.6	2640.6	2672.9	2677.9	2686.2
15°	2713.7	2773.1	2834.0	2855.9	2900.3	2910.9	2927.3
17.5°	2882.9	2943.7	2986.4	3042.8	3061.0	3085.4	3068.8
20°	2975.5	3041.8	3096.0	3140.4	3159.1	3172.7	3171.2
22.5°	3031.5	3098.3	3142.2	3175.9	3193.4	3199.2	3198.9
25°	3066.6	3104.9	3118.5	3131.3	3111.7	3104.9	3107.9
27.5°	2969.1	2959.1	2923.8	2877.4	2829.2	2791.0	2770.2
30°	2834.8	2776.1	2722.7	2629.3	2581.2	2552.6	2527.1
32.5°	2644.6	2551.6	2448.7	2363.2	2308.5	2266.1	2259.7
35°	2318.6	2178.6	2053.0	1948.3	1894.1	1848.2	1837.7
37.5°	1971.2	1825.8	1712.6	1620.5	1562.3	1529.9	1499.7
40°	1740.6	1615.7	1504.3	1426.1	1381.7	1358.3	1339.5
42.5°	1563.0	1449.0	1338.1	1278.6	1238.4	1224.1	1213.1
45°	1317.7	1211.5	1134.8	1089.7	1066.3	1042.3	1031.0
47.5°	1121.2	1034.9	984.3	945.9	921.0	906.6	899.5
50°	1009.9	939.1	894.0	864.7	842.1	830.8	824.8
52.5°	911.2	853.1	815.1	791.8	776.5	768.2	765.8
55°	784.9	740.5	716.4	696.1	684.9	677.3	674.3
57.5°	682.2	648.1	628.5	611.8	607.5	601.2	599.0
60°	614.8	588.5	571.9	560.6	556.9	549.3	550.8
62.5°	555.3	533.7	519.5	513.1	508.1	501.8	503.9
65°	469.6	453.7	446.3	440.3	434.2	430.5	433.5
67.5°	394.0	383.2	373.0	369.5	366.5	365.9	362.7
70°	344.7	335.6	326.6	324.3	324.3	321.3	320.6
72.5°	297.1	290.5	284.5	282.8	280.4	281.6	278.4
75°	229.5	224.2	222.0	219.7	219.0	219.0	216.7
77.5°	169.7	165.7	162.1	162.1	159.4	158.3	158.1
80°	128.7	127.1	124.1	124.1	122.6	123.4	121.9
82.5°	96.8	94.6	94.1	92.8	90.8	90.9	89.4
85°	51.9	49.7	48.9	46.7	45.1	46.7	45.1
87.5°	23.8	23.5	23.0	22.0	21.4	21.5	19.8
90°	28.5	30.0	30.9	31.4	31.9	32.3	32.9
92.5°	27.6	29.0	29.9	30.0	30.1	30.2	30.3
95°	28.5	30.0	30.8	31.0	31.3	31.5	31.8
97.5°	29.3	29.5	29.7	30.0	30.2	30.4	30.6
100°	35.8	31.7	29.7	30.0	30.2	30.4	30.6
102.5°	98.3	53.6	31.4	31.4	31.5	31.5	31.6
105°	348.3	350.4	347.1	338.4	329.6	320.9	312.2
107.5°	429.2	430.3	431.3	432.3	433.2	434.0	435.0
110°	484.5	484.9	485.5	486.3	487.0	487.8	488.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	537.9	537.8	538.2	539.1	540.1	541.0	541.9
115°	619.2	619.6	619.9	619.9	619.9	619.9	619.9
117.5°	699.7	699.6	699.6	699.5	699.4	699.3	699.2
120°	750.5	751.0	751.0	750.5	750.1	749.6	749.1
122.5°	799.9	800.2	800.1	799.7	799.2	798.6	798.1
125°	869.6	870.3	870.8	871.0	871.3	871.6	871.8
127.5°	937.5	937.4	937.2	937.0	936.8	936.6	936.4
130°	979.9	980.1	980.1	980.1	980.1	980.1	980.1
132.5°	1021.1	1021.2	1021.2	1021.1	1020.9	1020.7	1020.5
135°	1078.0	1078.6	1079.0	1079.5	1080.0	1080.4	1080.9
137.5°	1132.5	1133.0	1133.2	1133.1	1132.9	1132.7	1132.7
140°	1166.4	1167.2	1167.6	1167.8	1168.1	1168.3	1168.6
142.5°	1197.3	1197.9	1198.2	1198.3	1198.3	1198.3	1198.3
145°	1241.6	1241.8	1242.2	1242.6	1243.1	1243.7	1244.2
147.5°	1280.6	1280.8	1281.0	1281.3	1281.6	1281.8	1282.0
150°	1305.4	1305.4	1305.6	1305.8	1306.1	1306.4	1306.6
152.5°	1327.7	1328.0	1328.1	1328.0	1327.9	1327.8	1327.6
155°	1357.6	1358.7	1358.8	1358.0	1357.3	1356.6	1355.8
157.5°	1383.3	1384.6	1384.6	1383.3	1382.1	1380.7	1379.5
160°	1399.7	1401.1	1401.1	1399.7	1398.2	1396.8	1395.2
162.5°	1412.8	1414.3	1414.2	1412.5	1410.9	1409.2	1407.5
165°	1431.8	1433.7	1433.6	1431.4	1429.2	1427.0	1424.8
167.5°	1445.5	1447.7	1447.5	1445.1	1442.7	1440.2	1437.8
170°	1453.7	1455.7	1455.4	1452.9	1450.5	1448.1	1445.7
172.5°	1459.0	1460.8	1460.6	1457.9	1455.3	1452.6	1450.0
175°	1465.4	1467.5	1467.2	1464.2	1461.3	1458.4	1455.5
177.5°	1467.2	1468.8	1468.4	1466.0	1463.7	1461.3	1459.1
180°	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2	1464.2

(END OF REPORT)