

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: P332698-830

Luminaire Tested: **SA4XXDIP-C1195D1035U830-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332698-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

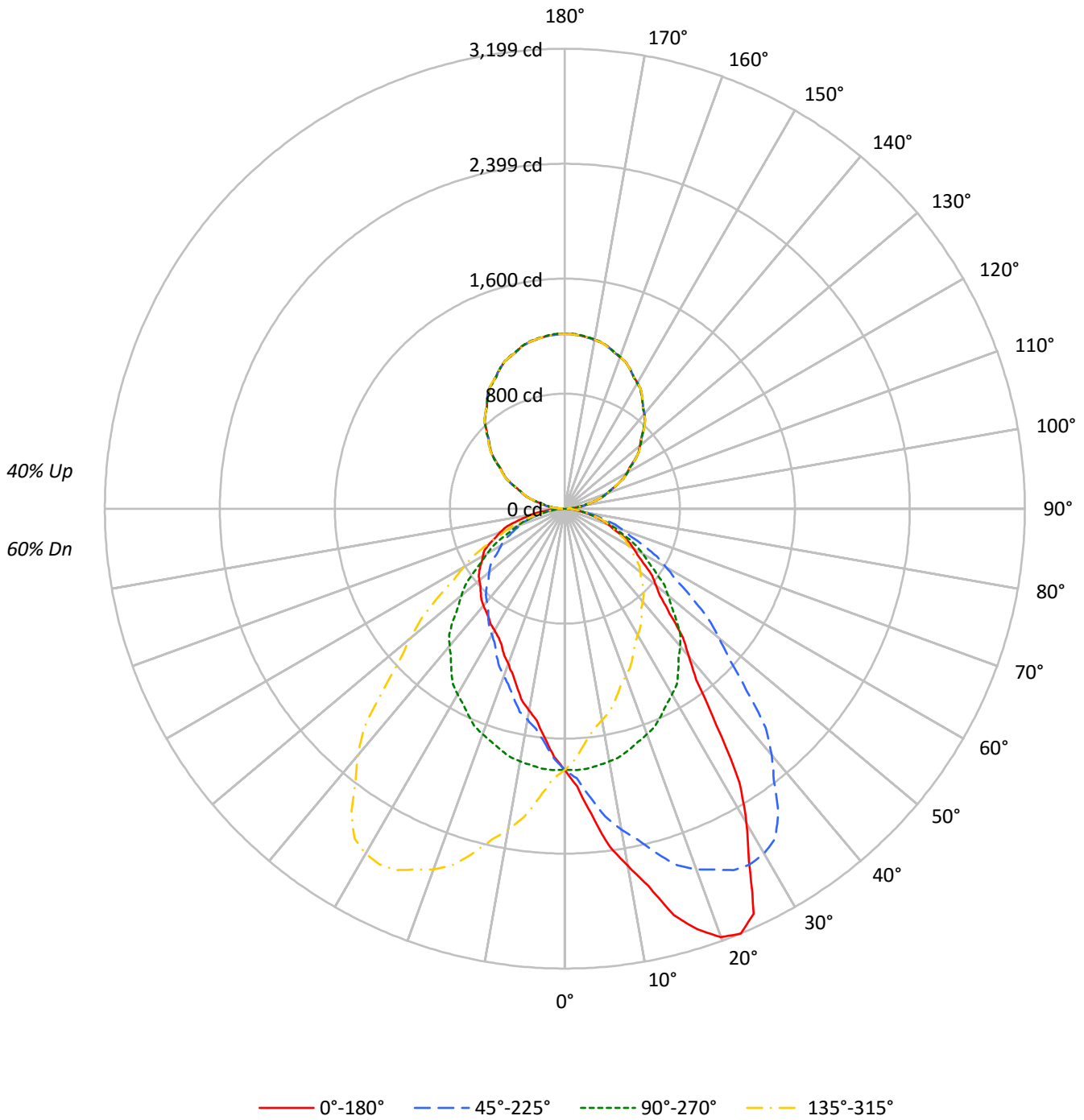
Lumens per Lamp: N/A
Luminaire Lumens: 8390.7 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60				
1	100	96	92	89	93	90	86	83	78	76	74	68	66	64	58	57	55	51				
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	51	49	47	43				
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	40	37				
4	77	66	58	52	71	62	55	49	54	49	44	48	43	40	41	38	35	32				
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	34	31	28				
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	34	30	27	24				
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22				
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	25	22	20				
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18				
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	24	21	18	16				

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	2.1
10°-20°	545.5	6.5
20°-30°	865.0	10.3
30°-40°	962.7	11.5
40°-50°	876.3	10.4
50°-60°	716.1	8.5
60°-70°	511.2	6.1
70°-80°	281.5	3.4
80°-90°	80.5	1.0
90°-100°	80.2	1.0
100°-110°	237.7	2.8
110°-120°	403.4	4.8
120°-130°	531.9	6.3
130°-140°	597.4	7.1
140°-150°	587.0	7.0
150°-160°	493.7	5.9
160°-170°	328.5	3.9
170°-180°	115.0	1.4
0°-30°	1587.5	18.9
0°-40°	2550.2	30.4
0°-60°	4142.6	49.4
0°-90°	5015.7	59.8
90°-120°	721.3	8.6
90°-150°	2437.7	29.1
90°-180°	3375.0	40.2
0°-180°	8390.7	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°	28	3	28	3	28	16
95°	74	56	74	56	74	77
105°	230	219	230	219	230	242
115°	406	410	406	410	406	402
125°	593	597	593	597	593	529
135°	772	770	772	770	772	596
145°	937	936	937	936	937	586
155°	1072	1072	1072	1072	1072	493
165°	1165	1168	1165	1168	1165	328
175°	1209	1215	1209	1215	1209	115
180°	1216	1216	1216	1216	1216	



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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°	18.9	20.6	20.5	21.0	22.1	22.6	23.0	22.1	24.2	24.6	26.7
90°	28.2	27.8	27.4	27.0	26.6	25.7	24.5	23.2	22.0	20.7	19.0
92.5°	41.8	41.6	41.3	41.0	40.8	40.2	39.5	38.7	38.0	37.2	36.1
95°	74.4	74.4	74.4	74.4	74.4	74.0	73.4	72.8	72.1	71.5	70.0
97.5°	116.5	116.5	116.5	116.5	116.5	116.1	115.4	114.6	113.9	113.1	111.4
100°	145.8	145.8	145.8	145.8	145.8	145.6	145.2	144.8	144.4	143.9	142.0
102.5°	178.9	178.8	178.6	178.4	178.2	177.9	177.3	176.7	176.2	175.6	173.8
105°	229.5	228.9	228.3	227.6	227.1	226.4	225.8	225.2	224.5	223.9	223.1
107.5°	278.8	278.9	278.9	279.0	279.0	278.7	278.1	277.6	277.0	276.4	276.3
110°	314.2	313.6	312.9	312.4	311.7	311.6	312.0	312.5	312.8	313.3	313.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	350.3	350.2	350.1	350.0	349.9	349.9	349.9	350.0	350.1	350.2	350.5
115°	406.4	406.6	406.8	407.1	407.3	407.5	407.6	407.8	408.1	408.3	408.7
117.5°	459.9	460.2	460.7	461.1	461.6	462.1	462.8	463.5	464.2	465.0	465.2
120°	500.5	500.1	499.6	499.3	498.8	499.2	500.2	501.2	502.3	503.3	504.0
122.5°	534.3	535.1	535.8	536.6	537.3	538.1	538.9	539.5	540.3	540.9	541.2
125°	592.7	593.1	593.5	594.0	594.4	594.7	595.2	595.6	596.1	596.4	596.6
127.5°	646.7	647.1	647.3	647.7	648.0	648.4	648.8	649.2	649.7	650.1	650.4
130°	682.0	682.9	683.7	684.6	685.4	686.1	686.5	686.9	687.3	687.7	687.7
132.5°	719.7	720.0	720.4	720.7	721.0	721.4	721.8	722.3	722.6	723.1	723.2
135°	771.5	772.0	772.7	773.4	773.9	774.5	774.9	775.3	775.7	776.2	776.2
137.5°	825.9	825.7	825.6	825.5	825.3	825.6	826.0	826.6	827.2	827.7	827.4
140°	858.9	859.1	859.3	859.6	859.8	860.0	860.2	860.4	860.6	860.8	860.8
142.5°	892.0	892.1	892.1	892.2	892.2	892.3	892.3	892.3	892.4	892.4	892.6
145°	937.0	937.6	938.3	938.9	939.5	939.9	940.2	940.4	940.6	940.8	940.6
147.5°	982.6	982.8	983.0	983.2	983.4	983.5	983.7	983.9	984.1	984.3	984.4
150°	1010.4	1010.6	1010.8	1011.1	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3
152.5°	1035.9	1036.5	1037.1	1037.6	1038.2	1038.2	1037.6	1037.2	1036.7	1036.1	1036.0
155°	1071.6	1072.4	1073.3	1074.0	1074.9	1074.9	1074.0	1073.3	1072.4	1071.6	1071.8
157.5°	1103.3	1104.1	1104.8	1105.5	1106.2	1106.3	1105.6	1104.9	1104.4	1103.7	1103.8
160°	1121.4	1122.5	1123.5	1124.5	1125.6	1125.8	1125.2	1124.5	1123.9	1123.3	1123.5
162.5°	1140.2	1141.3	1142.4	1143.4	1144.4	1144.3	1143.2	1142.1	1140.9	1139.8	1140.1
165°	1164.7	1165.5	1166.4	1167.2	1168.0	1167.8	1166.6	1165.4	1164.0	1162.8	1163.2
167.5°	1182.2	1183.5	1184.8	1186.1	1187.4	1187.4	1186.2	1184.9	1183.6	1182.4	1182.3
170°	1191.9	1193.4	1194.9	1196.4	1197.8	1198.0	1196.7	1195.4	1194.2	1192.9	1192.7
172.5°	1200.2	1201.7	1203.2	1204.7	1206.1	1206.2	1204.7	1203.2	1201.8	1200.4	1200.4
175°	1208.9	1210.4	1211.8	1213.3	1214.7	1214.7	1213.3	1211.8	1210.4	1208.9	1209.1
177.5°	1213.4	1214.7	1216.1	1217.5	1218.8	1218.9	1217.7	1216.5	1215.3	1214.2	1214.2
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



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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°	26.4	26.6	25.6	22.9	20.6	18.4	17.2	16.2	17.2	18.4	19.4
90°	17.3	15.6	14.0	12.1	9.7	7.4	5.1	2.8	5.1	7.4	9.7
92.5°	34.9	33.7	32.6	30.6	28.0	25.4	22.8	20.2	22.8	25.4	28.0
95°	68.6	67.1	65.6	64.0	62.1	60.2	58.3	56.5	58.3	60.2	62.1
97.5°	109.6	107.9	106.2	104.6	103.1	101.6	100.1	98.6	100.1	101.6	103.1
100°	140.2	138.3	136.4	135.1	134.2	133.4	132.5	131.7	132.5	133.4	134.2
102.5°	172.1	170.4	168.7	167.7	167.3	167.0	166.6	166.4	166.6	167.0	167.3
105°	222.3	221.4	220.6	220.1	219.8	219.6	219.4	219.2	219.4	219.6	219.8
107.5°	276.2	276.1	275.9	275.7	275.5	275.2	274.9	274.8	274.9	275.2	275.5
110°	313.7	313.9	314.1	314.1	313.6	313.2	312.7	312.4	312.7	313.2	313.6



TEST NUMBER: P332698-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	350.9	351.3	351.7	351.9	351.8	351.7	351.6	351.5	351.6	351.7	351.8
115°	409.2	409.5	410.0	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2
117.5°	465.5	465.8	466.1	466.2	466.0	465.8	465.7	465.5	465.7	465.8	466.0
120°	504.5	505.2	505.9	505.8	504.9	504.1	503.2	502.4	503.2	504.1	504.9
122.5°	541.5	541.9	542.2	542.1	541.8	541.4	541.1	540.7	541.1	541.4	541.8
125°	596.9	597.1	597.3	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
127.5°	650.7	651.1	651.4	651.3	650.6	650.0	649.4	648.8	649.4	650.0	650.6
130°	687.7	687.7	687.7	687.4	686.7	686.2	685.5	684.9	685.5	686.2	686.7
132.5°	723.4	723.6	723.8	723.6	723.1	722.6	722.3	721.8	722.3	722.6	723.1
135°	776.2	776.2	776.2	775.5	774.3	773.0	771.8	770.5	771.8	773.0	774.3
137.5°	827.1	826.7	826.3	826.0	825.3	824.7	824.2	823.6	824.2	824.7	825.3
140°	860.8	860.8	860.8	860.6	860.2	859.8	859.3	858.9	859.3	859.8	860.2
142.5°	892.8	893.0	893.1	893.0	892.6	892.1	891.7	891.3	891.7	892.1	892.6
145°	940.4	940.2	939.9	939.4	938.6	937.7	936.9	936.0	936.9	937.7	938.6
147.5°	984.6	984.8	985.0	984.5	983.5	982.5	981.5	980.5	981.5	982.5	983.5
150°	1011.3	1011.3	1011.3	1011.0	1010.1	1009.3	1008.4	1007.6	1008.4	1009.3	1010.1
152.5°	1035.9	1035.7	1035.5	1035.2	1034.7	1034.2	1033.7	1033.2	1033.7	1034.2	1034.7
155°	1072.0	1072.1	1072.4	1072.5	1072.5	1072.5	1072.5	1072.5	1072.5	1072.5	1072.5
157.5°	1103.8	1103.8	1103.9	1104.1	1104.5	1104.8	1105.2	1105.6	1105.2	1104.8	1104.5
160°	1123.7	1123.9	1124.2	1124.4	1124.5	1124.7	1124.9	1125.2	1124.9	1124.7	1124.5
162.5°	1140.3	1140.5	1140.7	1141.0	1141.6	1142.2	1142.7	1143.2	1142.7	1142.2	1141.6
165°	1163.7	1164.0	1164.5	1165.0	1165.6	1166.3	1166.9	1167.5	1166.9	1166.3	1165.6
167.5°	1182.3	1182.2	1182.2	1182.6	1183.6	1184.4	1185.2	1186.2	1185.2	1184.4	1183.6
170°	1192.5	1192.3	1192.0	1192.5	1193.5	1194.6	1195.6	1196.7	1195.6	1194.6	1193.5
172.5°	1200.3	1200.3	1200.2	1200.7	1201.6	1202.5	1203.3	1204.2	1203.3	1202.5	1201.6
175°	1209.3	1209.6	1209.8	1210.4	1211.4	1212.5	1213.5	1214.6	1213.5	1212.5	1211.4
177.5°	1214.2	1214.2	1214.2	1214.6	1215.4	1216.3	1217.1	1218.0	1217.1	1216.3	1215.4
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



TEST NUMBER: P332698-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-A1

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°	21.7	22.1	24.8	26.4	28.5	31.9	33.3	40.2	42.8	46.1	51.7
90°	12.1	14.0	15.6	17.3	19.0	20.7	22.0	23.2	24.5	25.7	26.6
92.5°	30.6	32.6	33.7	34.9	36.1	37.2	38.0	38.7	39.5	40.2	40.8
95°	64.0	65.6	67.1	68.6	70.0	71.5	72.1	72.8	73.4	74.0	74.4
97.5°	104.6	106.2	107.9	109.6	111.4	113.1	113.9	114.6	115.4	116.1	116.5
100°	135.1	136.4	138.3	140.2	142.0	143.9	144.4	144.8	145.2	145.6	145.8
102.5°	167.7	168.7	170.4	172.1	173.8	175.6	176.2	176.7	177.3	177.9	178.2
105°	220.1	220.6	221.4	222.3	223.1	223.9	224.5	225.2	225.8	226.4	227.1
107.5°	275.7	275.9	276.1	276.2	276.3	276.4	277.0	277.6	278.1	278.7	279.0
110°	314.1	314.1	313.9	313.7	313.5	313.3	312.8	312.5	312.0	311.6	311.7



TEST NUMBER: P332698-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	351.9	351.7	351.3	350.9	350.5	350.2	350.1	350.0	349.9	349.9	349.9
115°	410.2	410.0	409.5	409.2	408.7	408.3	408.1	407.8	407.6	407.5	407.3
117.5°	466.2	466.1	465.8	465.5	465.2	465.0	464.2	463.5	462.8	462.1	461.6
120°	505.8	505.9	505.2	504.5	504.0	503.3	502.3	501.2	500.2	499.2	498.8
122.5°	542.1	542.2	541.9	541.5	541.2	540.9	540.3	539.5	538.9	538.1	537.3
125°	597.4	597.3	597.1	596.9	596.6	596.4	596.1	595.6	595.2	594.7	594.4
127.5°	651.3	651.4	651.1	650.7	650.4	650.1	649.7	649.2	648.8	648.4	648.0
130°	687.4	687.7	687.7	687.7	687.7	687.7	687.3	686.9	686.5	686.1	685.4
132.5°	723.6	723.8	723.6	723.4	723.2	723.1	722.6	722.3	721.8	721.4	721.0
135°	775.5	776.2	776.2	776.2	776.2	776.2	775.7	775.3	774.9	774.5	773.9
137.5°	826.0	826.3	826.7	827.1	827.4	827.7	827.2	826.6	826.0	825.6	825.3
140°	860.6	860.8	860.8	860.8	860.8	860.8	860.6	860.4	860.2	860.0	859.8
142.5°	893.0	893.1	893.0	892.8	892.6	892.4	892.4	892.3	892.3	892.3	892.2
145°	939.4	939.9	940.2	940.4	940.6	940.8	940.6	940.4	940.2	939.9	939.5
147.5°	984.5	985.0	984.8	984.6	984.4	984.3	984.1	983.9	983.7	983.5	983.4
150°	1011.0	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3
152.5°	1035.2	1035.5	1035.7	1035.9	1036.0	1036.1	1036.7	1037.2	1037.6	1038.2	1038.2
155°	1072.5	1072.4	1072.1	1072.0	1071.8	1071.6	1072.4	1073.3	1074.0	1074.9	1074.9
157.5°	1104.1	1103.9	1103.8	1103.8	1103.8	1103.7	1104.4	1104.9	1105.6	1106.3	1106.2
160°	1124.4	1124.2	1123.9	1123.7	1123.5	1123.3	1123.9	1124.5	1125.2	1125.8	1125.6
162.5°	1141.0	1140.7	1140.5	1140.3	1140.1	1139.8	1140.9	1142.1	1143.2	1144.3	1144.4
165°	1165.0	1164.5	1164.0	1163.7	1163.2	1162.8	1164.0	1165.4	1166.6	1167.8	1168.0
167.5°	1182.6	1182.2	1182.2	1182.3	1182.3	1182.4	1183.6	1184.9	1186.2	1187.4	1187.4
170°	1192.5	1192.0	1192.3	1192.5	1192.7	1192.9	1194.2	1195.4	1196.7	1198.0	1197.8
172.5°	1200.7	1200.2	1200.3	1200.3	1200.4	1200.4	1201.8	1203.2	1204.7	1206.2	1206.1
175°	1210.4	1209.8	1209.6	1209.3	1209.1	1208.9	1210.4	1211.8	1213.3	1214.7	1214.7
177.5°	1214.6	1214.2	1214.2	1214.2	1214.2	1214.2	1215.3	1216.5	1217.7	1218.9	1218.8
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



TEST NUMBER: P332698-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-A1

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°	53.5	54.2	56.2	57.4	56.2	54.2	53.5	51.7	46.1	42.8	40.2
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.7	24.5	23.2
92.5°	41.0	41.3	41.6	41.8	41.6	41.3	41.0	40.8	40.2	39.5	38.7
95°	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.0	73.4	72.8
97.5°	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.1	115.4	114.6
100°	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.6	145.2	144.8
102.5°	178.4	178.6	178.8	178.9	178.8	178.6	178.4	178.2	177.9	177.3	176.7
105°	227.6	228.3	228.9	229.5	228.9	228.3	227.6	227.1	226.4	225.8	225.2
107.5°	279.0	278.9	278.9	278.8	278.9	278.9	279.0	279.0	278.7	278.1	277.6
110°	312.4	312.9	313.6	314.2	313.6	312.9	312.4	311.7	311.6	312.0	312.5



TEST NUMBER: P332698-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	350.0	350.1	350.2	350.3	350.2	350.1	350.0	349.9	349.9	349.9	350.0
115°	407.1	406.8	406.6	406.4	406.6	406.8	407.1	407.3	407.5	407.6	407.8
117.5°	461.1	460.7	460.2	459.9	460.2	460.7	461.1	461.6	462.1	462.8	463.5
120°	499.3	499.6	500.1	500.5	500.1	499.6	499.3	498.8	499.2	500.2	501.2
122.5°	536.6	535.8	535.1	534.3	535.1	535.8	536.6	537.3	538.1	538.9	539.5
125°	594.0	593.5	593.1	592.7	593.1	593.5	594.0	594.4	594.7	595.2	595.6
127.5°	647.7	647.3	647.1	646.7	647.1	647.3	647.7	648.0	648.4	648.8	649.2
130°	684.6	683.7	682.9	682.0	682.9	683.7	684.6	685.4	686.1	686.5	686.9
132.5°	720.7	720.4	720.0	719.7	720.0	720.4	720.7	721.0	721.4	721.8	722.3
135°	773.4	772.7	772.0	771.5	772.0	772.7	773.4	773.9	774.5	774.9	775.3
137.5°	825.5	825.6	825.7	825.9	825.7	825.6	825.5	825.3	825.6	826.0	826.6
140°	859.6	859.3	859.1	858.9	859.1	859.3	859.6	859.8	860.0	860.2	860.4
142.5°	892.2	892.1	892.1	892.0	892.1	892.1	892.2	892.2	892.3	892.3	892.3
145°	938.9	938.3	937.6	937.0	937.6	938.3	938.9	939.5	939.9	940.2	940.4
147.5°	983.2	983.0	982.8	982.6	982.8	983.0	983.2	983.4	983.5	983.7	983.9
150°	1011.1	1010.8	1010.6	1010.4	1010.6	1010.8	1011.1	1011.3	1011.3	1011.3	1011.3
152.5°	1037.6	1037.1	1036.5	1035.9	1036.5	1037.1	1037.6	1038.2	1038.2	1037.6	1037.2
155°	1074.0	1073.3	1072.4	1071.6	1072.4	1073.3	1074.0	1074.9	1074.9	1074.0	1073.3
157.5°	1105.5	1104.8	1104.1	1103.3	1104.1	1104.8	1105.5	1106.2	1106.3	1105.6	1104.9
160°	1124.5	1123.5	1122.5	1121.4	1122.5	1123.5	1124.5	1125.6	1125.8	1125.2	1124.5
162.5°	1143.4	1142.4	1141.3	1140.2	1141.3	1142.4	1143.4	1144.4	1144.3	1143.2	1142.1
165°	1167.2	1166.4	1165.5	1164.7	1165.5	1166.4	1167.2	1168.0	1167.8	1166.6	1165.4
167.5°	1186.1	1184.8	1183.5	1182.2	1183.5	1184.8	1186.1	1187.4	1187.4	1186.2	1184.9
170°	1196.4	1194.9	1193.4	1191.9	1193.4	1194.9	1196.4	1197.8	1198.0	1196.7	1195.4
172.5°	1204.7	1203.2	1201.7	1200.2	1201.7	1203.2	1204.7	1206.1	1206.2	1204.7	1203.2
175°	1213.3	1211.8	1210.4	1208.9	1210.4	1211.8	1213.3	1214.7	1214.7	1213.3	1211.8
177.5°	1217.5	1216.1	1214.7	1213.4	1214.7	1216.1	1217.5	1218.8	1218.9	1217.7	1216.5
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



TEST NUMBER: P332698-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-A1

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°	33.3	31.9	28.5	26.4	24.8	22.1	21.7	19.4	18.4	17.2	16.2
90°	22.0	20.7	19.0	17.3	15.6	14.0	12.1	9.7	7.4	5.1	2.8
92.5°	38.0	37.2	36.1	34.9	33.7	32.6	30.6	28.0	25.4	22.8	20.2
95°	72.1	71.5	70.0	68.6	67.1	65.6	64.0	62.1	60.2	58.3	56.5
97.5°	113.9	113.1	111.4	109.6	107.9	106.2	104.6	103.1	101.6	100.1	98.6
100°	144.4	143.9	142.0	140.2	138.3	136.4	135.1	134.2	133.4	132.5	131.7
102.5°	176.2	175.6	173.8	172.1	170.4	168.7	167.7	167.3	167.0	166.6	166.4
105°	224.5	223.9	223.1	222.3	221.4	220.6	220.1	219.8	219.6	219.4	219.2
107.5°	277.0	276.4	276.3	276.2	276.1	275.9	275.7	275.5	275.2	274.9	274.8
110°	312.8	313.3	313.5	313.7	313.9	314.1	314.1	313.6	313.2	312.7	312.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	350.1	350.2	350.5	350.9	351.3	351.7	351.9	351.8	351.7	351.6	351.5
115°	408.1	408.3	408.7	409.2	409.5	410.0	410.2	410.2	410.2	410.2	410.2
117.5°	464.2	465.0	465.2	465.5	465.8	466.1	466.2	466.0	465.8	465.7	465.5
120°	502.3	503.3	504.0	504.5	505.2	505.9	505.8	504.9	504.1	503.2	502.4
122.5°	540.3	540.9	541.2	541.5	541.9	542.2	542.1	541.8	541.4	541.1	540.7
125°	596.1	596.4	596.6	596.9	597.1	597.3	597.4	597.4	597.4	597.4	597.4
127.5°	649.7	650.1	650.4	650.7	651.1	651.4	651.3	650.6	650.0	649.4	648.8
130°	687.3	687.7	687.7	687.7	687.7	687.7	687.4	686.7	686.2	685.5	684.9
132.5°	722.6	723.1	723.2	723.4	723.6	723.8	723.6	723.1	722.6	722.3	721.8
135°	775.7	776.2	776.2	776.2	776.2	776.2	775.5	774.3	773.0	771.8	770.5
137.5°	827.2	827.7	827.4	827.1	826.7	826.3	826.0	825.3	824.7	824.2	823.6
140°	860.6	860.8	860.8	860.8	860.8	860.8	860.6	860.2	859.8	859.3	858.9
142.5°	892.4	892.4	892.6	892.8	893.0	893.1	893.0	892.6	892.1	891.7	891.3
145°	940.6	940.8	940.6	940.4	940.2	939.9	939.4	938.6	937.7	936.9	936.0
147.5°	984.1	984.3	984.4	984.6	984.8	985.0	984.5	983.5	982.5	981.5	980.5
150°	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.0	1010.1	1009.3	1008.4	1007.6
152.5°	1036.7	1036.1	1036.0	1035.9	1035.7	1035.5	1035.2	1034.7	1034.2	1033.7	1033.2
155°	1072.4	1071.6	1071.8	1072.0	1072.1	1072.4	1072.5	1072.5	1072.5	1072.5	1072.5
157.5°	1104.4	1103.7	1103.8	1103.8	1103.8	1103.9	1104.1	1104.5	1104.8	1105.2	1105.6
160°	1123.9	1123.3	1123.5	1123.7	1123.9	1124.2	1124.4	1124.5	1124.7	1124.9	1125.2
162.5°	1140.9	1139.8	1140.1	1140.3	1140.5	1140.7	1141.0	1141.6	1142.2	1142.7	1143.2
165°	1164.0	1162.8	1163.2	1163.7	1164.0	1164.5	1165.0	1165.6	1166.3	1166.9	1167.5
167.5°	1183.6	1182.4	1182.3	1182.3	1182.2	1182.2	1182.6	1183.6	1184.4	1185.2	1186.2
170°	1194.2	1192.9	1192.7	1192.5	1192.3	1192.0	1192.5	1193.5	1194.6	1195.6	1196.7
172.5°	1201.8	1200.4	1200.4	1200.3	1200.3	1200.2	1200.7	1201.6	1202.5	1203.3	1204.2
175°	1210.4	1208.9	1209.1	1209.3	1209.6	1209.8	1210.4	1211.4	1212.5	1213.5	1214.6
177.5°	1215.3	1214.2	1214.2	1214.2	1214.2	1214.2	1214.6	1215.4	1216.3	1217.1	1218.0
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



TEST NUMBER: P332698-830

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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°	17.2	18.4	20.6	22.9	25.6	26.6	26.4	26.7	24.6	24.2	22.1
90°	5.1	7.4	9.7	12.1	14.0	15.6	17.3	19.0	20.7	22.0	23.2
92.5°	22.8	25.4	28.0	30.6	32.6	33.7	34.9	36.1	37.2	38.0	38.7
95°	58.3	60.2	62.1	64.0	65.6	67.1	68.6	70.0	71.5	72.1	72.8
97.5°	100.1	101.6	103.1	104.6	106.2	107.9	109.6	111.4	113.1	113.9	114.6
100°	132.5	133.4	134.2	135.1	136.4	138.3	140.2	142.0	143.9	144.4	144.8
102.5°	166.6	167.0	167.3	167.7	168.7	170.4	172.1	173.8	175.6	176.2	176.7
105°	219.4	219.6	219.8	220.1	220.6	221.4	222.3	223.1	223.9	224.5	225.2
107.5°	274.9	275.2	275.5	275.7	275.9	276.1	276.2	276.3	276.4	277.0	277.6
110°	312.7	313.2	313.6	314.1	314.1	313.9	313.7	313.5	313.3	312.8	312.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	351.6	351.7	351.8	351.9	351.7	351.3	350.9	350.5	350.2	350.1	350.0
115°	410.2	410.2	410.2	410.2	410.0	409.5	409.2	408.7	408.3	408.1	407.8
117.5°	465.7	465.8	466.0	466.2	466.1	465.8	465.5	465.2	465.0	464.2	463.5
120°	503.2	504.1	504.9	505.8	505.9	505.2	504.5	504.0	503.3	502.3	501.2
122.5°	541.1	541.4	541.8	542.1	542.2	541.9	541.5	541.2	540.9	540.3	539.5
125°	597.4	597.4	597.4	597.4	597.3	597.1	596.9	596.6	596.4	596.1	595.6
127.5°	649.4	650.0	650.6	651.3	651.4	651.1	650.7	650.4	650.1	649.7	649.2
130°	685.5	686.2	686.7	687.4	687.7	687.7	687.7	687.7	687.7	687.3	686.9
132.5°	722.3	722.6	723.1	723.6	723.8	723.6	723.4	723.2	723.1	722.6	722.3
135°	771.8	773.0	774.3	775.5	776.2	776.2	776.2	776.2	776.2	775.7	775.3
137.5°	824.2	824.7	825.3	826.0	826.3	826.7	827.1	827.4	827.7	827.2	826.6
140°	859.3	859.8	860.2	860.6	860.8	860.8	860.8	860.8	860.8	860.6	860.4
142.5°	891.7	892.1	892.6	893.0	893.1	893.0	892.8	892.6	892.4	892.4	892.3
145°	936.9	937.7	938.6	939.4	939.9	940.2	940.4	940.6	940.8	940.6	940.4
147.5°	981.5	982.5	983.5	984.5	985.0	984.8	984.6	984.4	984.3	984.1	983.9
150°	1008.4	1009.3	1010.1	1011.0	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3
152.5°	1033.7	1034.2	1034.7	1035.2	1035.5	1035.7	1035.9	1036.0	1036.1	1036.7	1037.2
155°	1072.5	1072.5	1072.5	1072.5	1072.4	1072.1	1072.0	1071.8	1071.6	1072.4	1073.3
157.5°	1105.2	1104.8	1104.5	1104.1	1103.9	1103.8	1103.8	1103.8	1103.7	1104.4	1104.9
160°	1124.9	1124.7	1124.5	1124.4	1124.2	1123.9	1123.7	1123.5	1123.3	1123.9	1124.5
162.5°	1142.7	1142.2	1141.6	1141.0	1140.7	1140.5	1140.3	1140.1	1139.8	1140.9	1142.1
165°	1166.9	1166.3	1165.6	1165.0	1164.5	1164.0	1163.7	1163.2	1162.8	1164.0	1165.4
167.5°	1185.2	1184.4	1183.6	1182.6	1182.2	1182.2	1182.3	1182.3	1182.4	1183.6	1184.9
170°	1195.6	1194.6	1193.5	1192.5	1192.0	1192.3	1192.5	1192.7	1192.9	1194.2	1195.4
172.5°	1203.3	1202.5	1201.6	1200.7	1200.2	1200.3	1200.3	1200.4	1200.4	1201.8	1203.2
175°	1213.5	1212.5	1211.4	1210.4	1209.8	1209.6	1209.3	1209.1	1208.9	1210.4	1211.8
177.5°	1217.1	1216.3	1215.4	1214.6	1214.2	1214.2	1214.2	1214.2	1214.2	1215.3	1216.5
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4



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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°	23.0	22.6	22.1	21.0	20.5	20.6	18.9
90°	24.5	25.7	26.6	27.0	27.4	27.8	28.2
92.5°	39.5	40.2	40.8	41.0	41.3	41.6	41.8
95°	73.4	74.0	74.4	74.4	74.4	74.4	74.4
97.5°	115.4	116.1	116.5	116.5	116.5	116.5	116.5
100°	145.2	145.6	145.8	145.8	145.8	145.8	145.8
102.5°	177.3	177.9	178.2	178.4	178.6	178.8	178.9
105°	225.8	226.4	227.1	227.6	228.3	228.9	229.5
107.5°	278.1	278.7	279.0	279.0	278.9	278.9	278.8
110°	312.0	311.6	311.7	312.4	312.9	313.6	314.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	349.9	349.9	349.9	350.0	350.1	350.2	350.3
115°	407.6	407.5	407.3	407.1	406.8	406.6	406.4
117.5°	462.8	462.1	461.6	461.1	460.7	460.2	459.9
120°	500.2	499.2	498.8	499.3	499.6	500.1	500.5
122.5°	538.9	538.1	537.3	536.6	535.8	535.1	534.3
125°	595.2	594.7	594.4	594.0	593.5	593.1	592.7
127.5°	648.8	648.4	648.0	647.7	647.3	647.1	646.7
130°	686.5	686.1	685.4	684.6	683.7	682.9	682.0
132.5°	721.8	721.4	721.0	720.7	720.4	720.0	719.7
135°	774.9	774.5	773.9	773.4	772.7	772.0	771.5
137.5°	826.0	825.6	825.3	825.5	825.6	825.7	825.9
140°	860.2	860.0	859.8	859.6	859.3	859.1	858.9
142.5°	892.3	892.3	892.2	892.2	892.1	892.1	892.0
145°	940.2	939.9	939.5	938.9	938.3	937.6	937.0
147.5°	983.7	983.5	983.4	983.2	983.0	982.8	982.6
150°	1011.3	1011.3	1011.3	1011.1	1010.8	1010.6	1010.4
152.5°	1037.6	1038.2	1038.2	1037.6	1037.1	1036.5	1035.9
155°	1074.0	1074.9	1074.9	1074.0	1073.3	1072.4	1071.6
157.5°	1105.6	1106.3	1106.2	1105.5	1104.8	1104.1	1103.3
160°	1125.2	1125.8	1125.6	1124.5	1123.5	1122.5	1121.4
162.5°	1143.2	1144.3	1144.4	1143.4	1142.4	1141.3	1140.2
165°	1166.6	1167.8	1168.0	1167.2	1166.4	1165.5	1164.7
167.5°	1186.2	1187.4	1187.4	1186.1	1184.8	1183.5	1182.2
170°	1196.7	1198.0	1197.8	1196.4	1194.9	1193.4	1191.9
172.5°	1204.7	1206.2	1206.1	1204.7	1203.2	1201.7	1200.2
175°	1213.3	1214.7	1214.7	1213.3	1211.8	1210.4	1208.9
177.5°	1217.7	1218.9	1218.8	1217.5	1216.1	1214.7	1213.4
180°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4

(END OF REPORT)